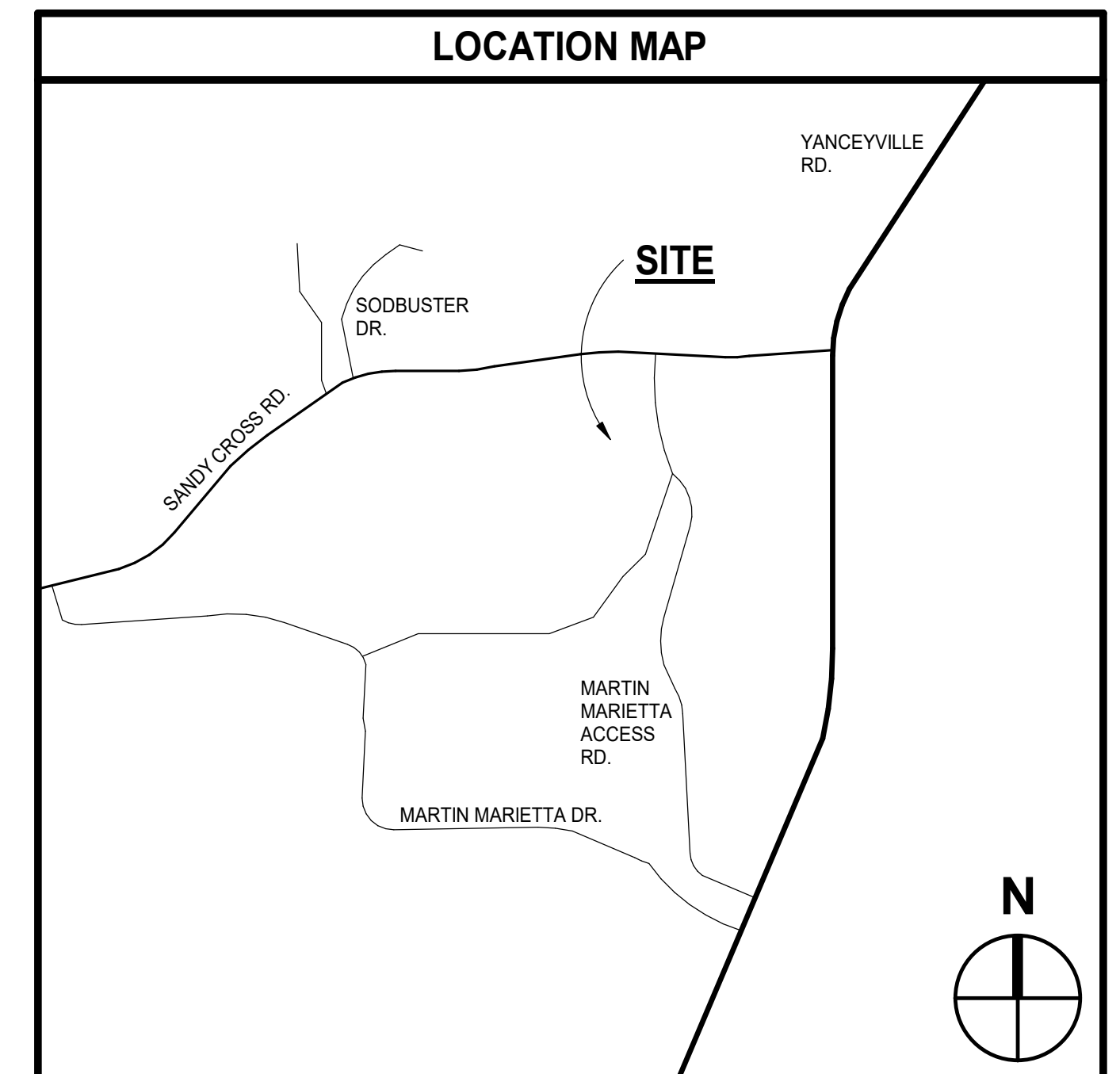
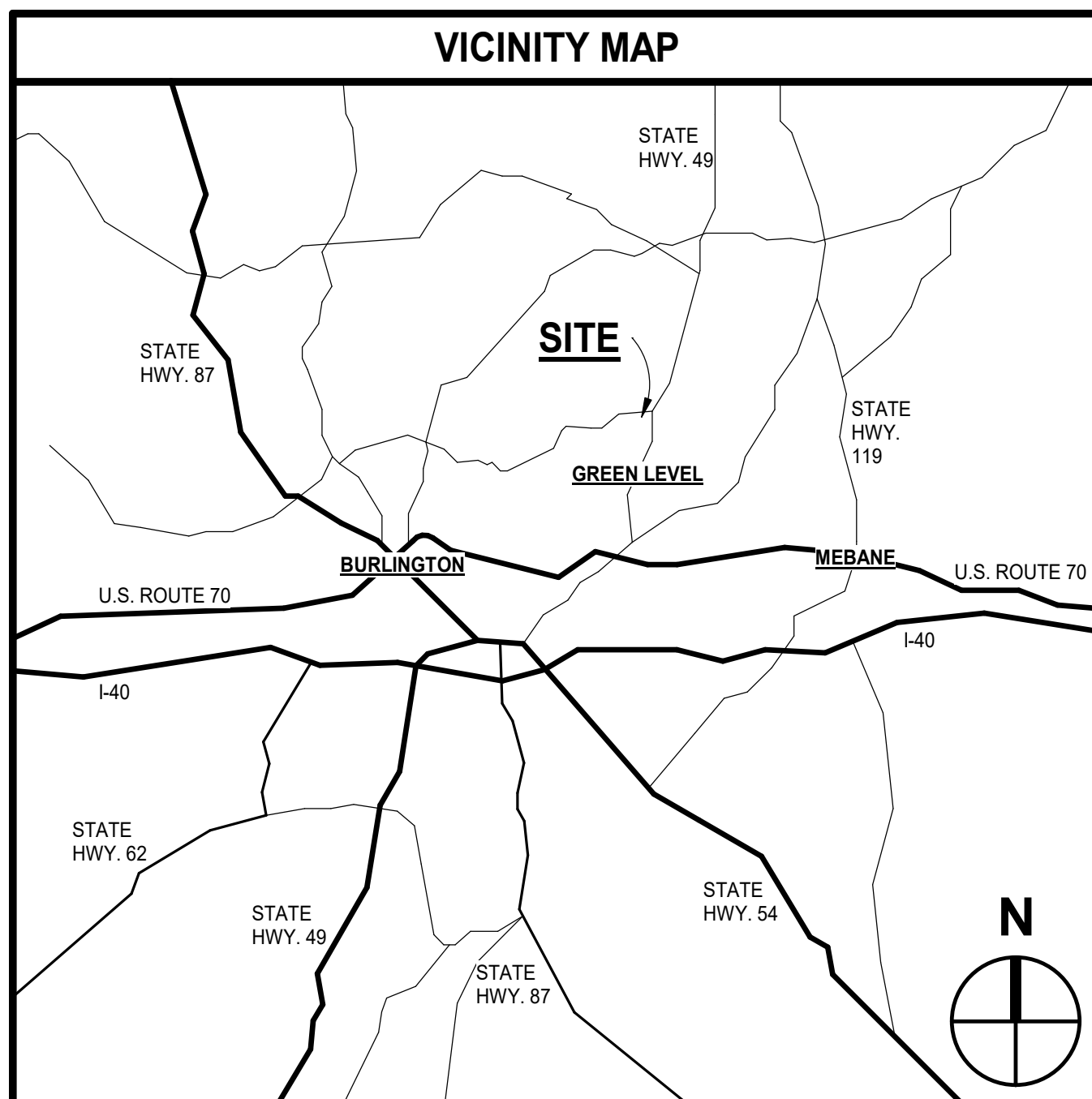


MOSELEYARCHITECTS

Timmons Group, Inc.	Civil Engineering / Landscape Architecture
5410 Trinity Road, Unit #102	Raleigh, NC
McLaren Wilson & Lawrie, Inc.	Fire Range Design Consultants
11798 North Lakeridge Parkway	Ashland, VA
Elliott, LeBoeuf & McElwain, P.C.	Fire Training Design Consultants
8001 Forbes Place, #Suite 201	Springfield, VA



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C3.4	STORM SEWER PROFILES	A0.2	WALL PARTITION TYPES, WALL JOINTS AND TERMINATIONS	S2.1.1	ROOF FRAMING PLAN - CLASSROOM BUILDING						
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PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

SUBJECT NO: 600646	
DATE: AUGUST 14, 2023	
REVISIONS	
DATE	DESCRIPTION

COVER

PREFABRICATED TRAINING PAVILLION PLANS
NO SCALE

NOTE: THIS IS AN OCCUPIABLE STRUCTURE AND IS USED FOR PUBLIC SAFETY PERSONEL TRAINING EXERCISES ONLY

PREMANUFACTURED
METAL TRAINING
TOWER INFORMATION

G1.0

PUBLIC SAFETY TRAINING CENTER

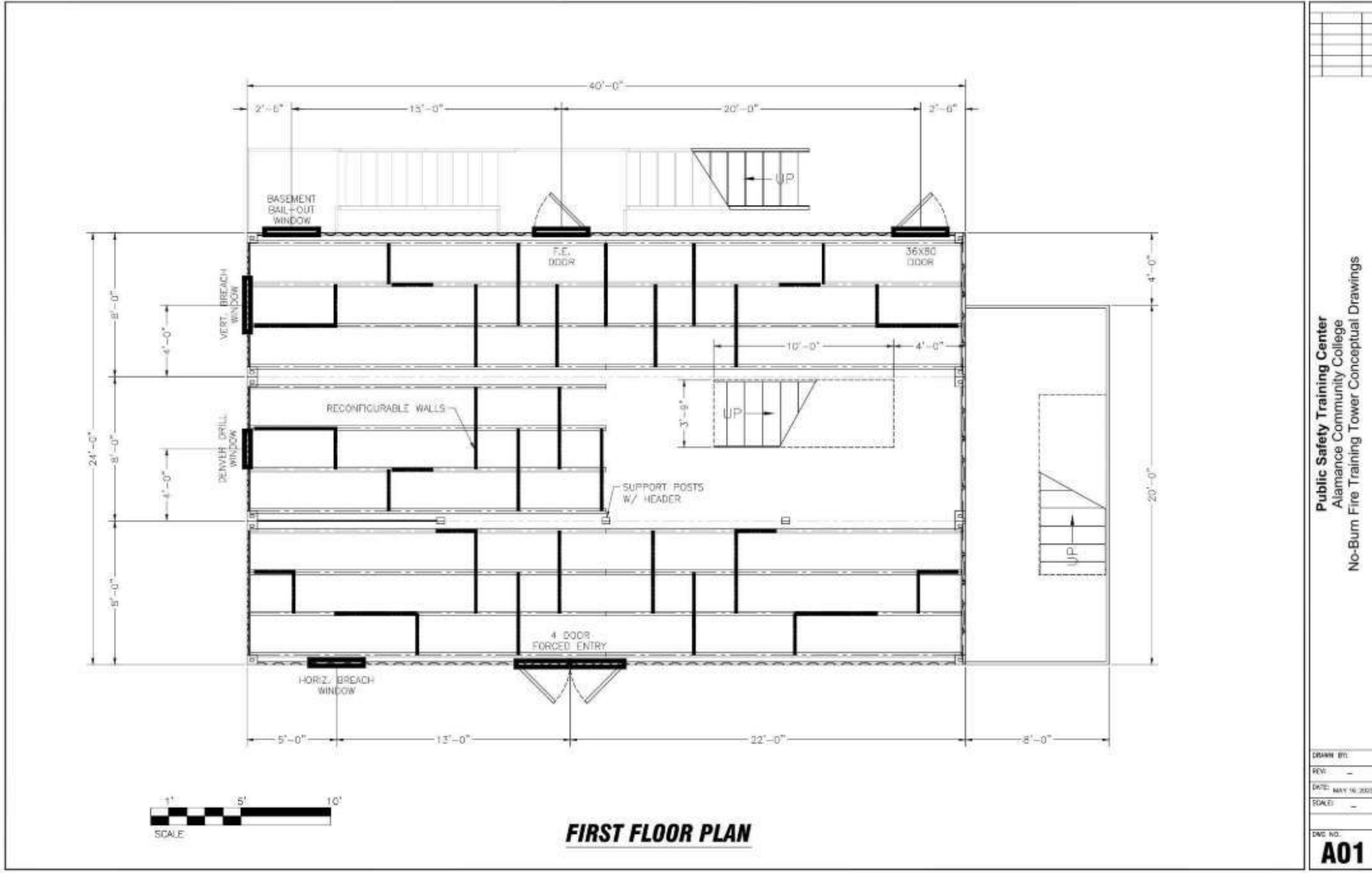
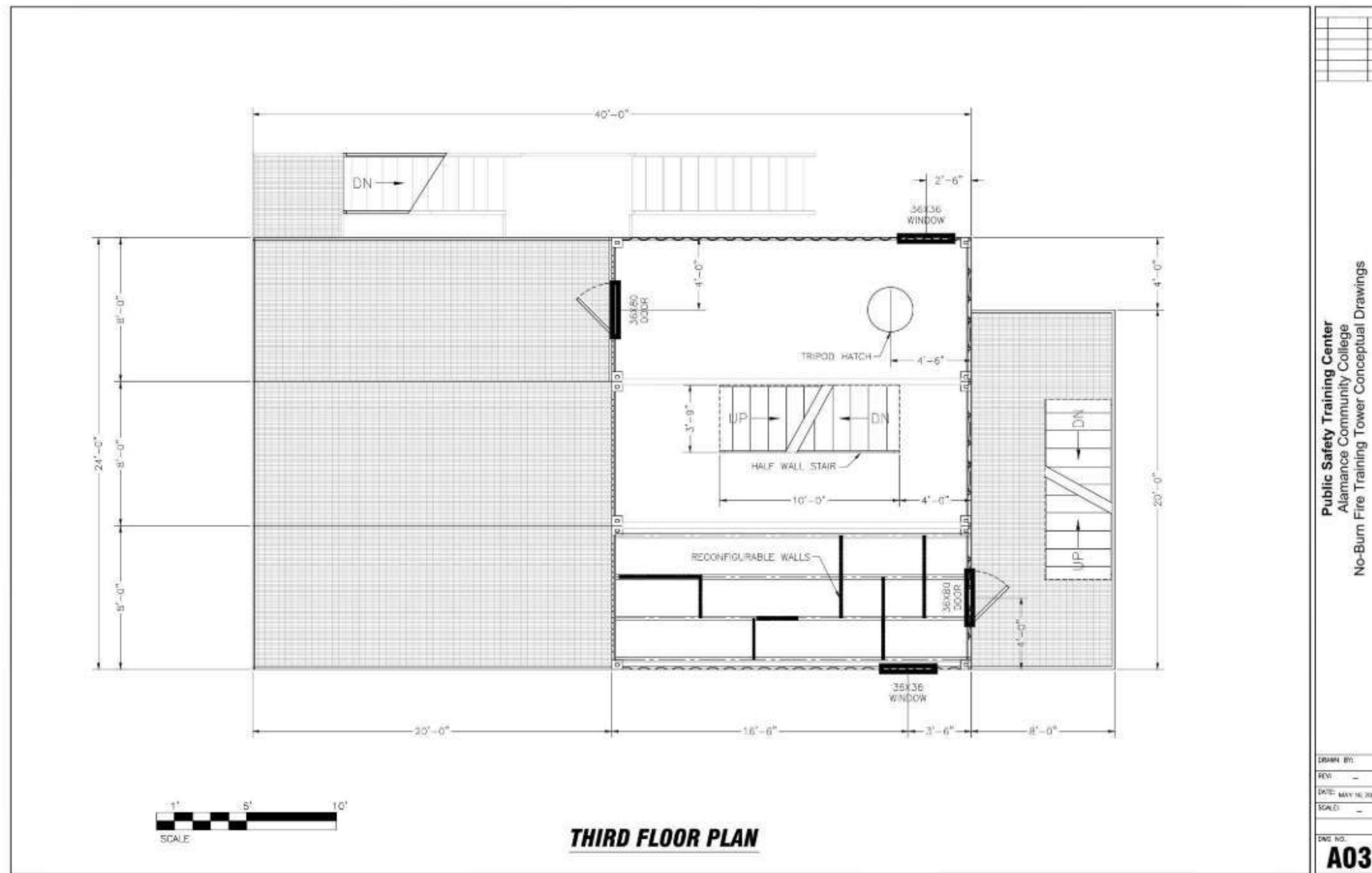
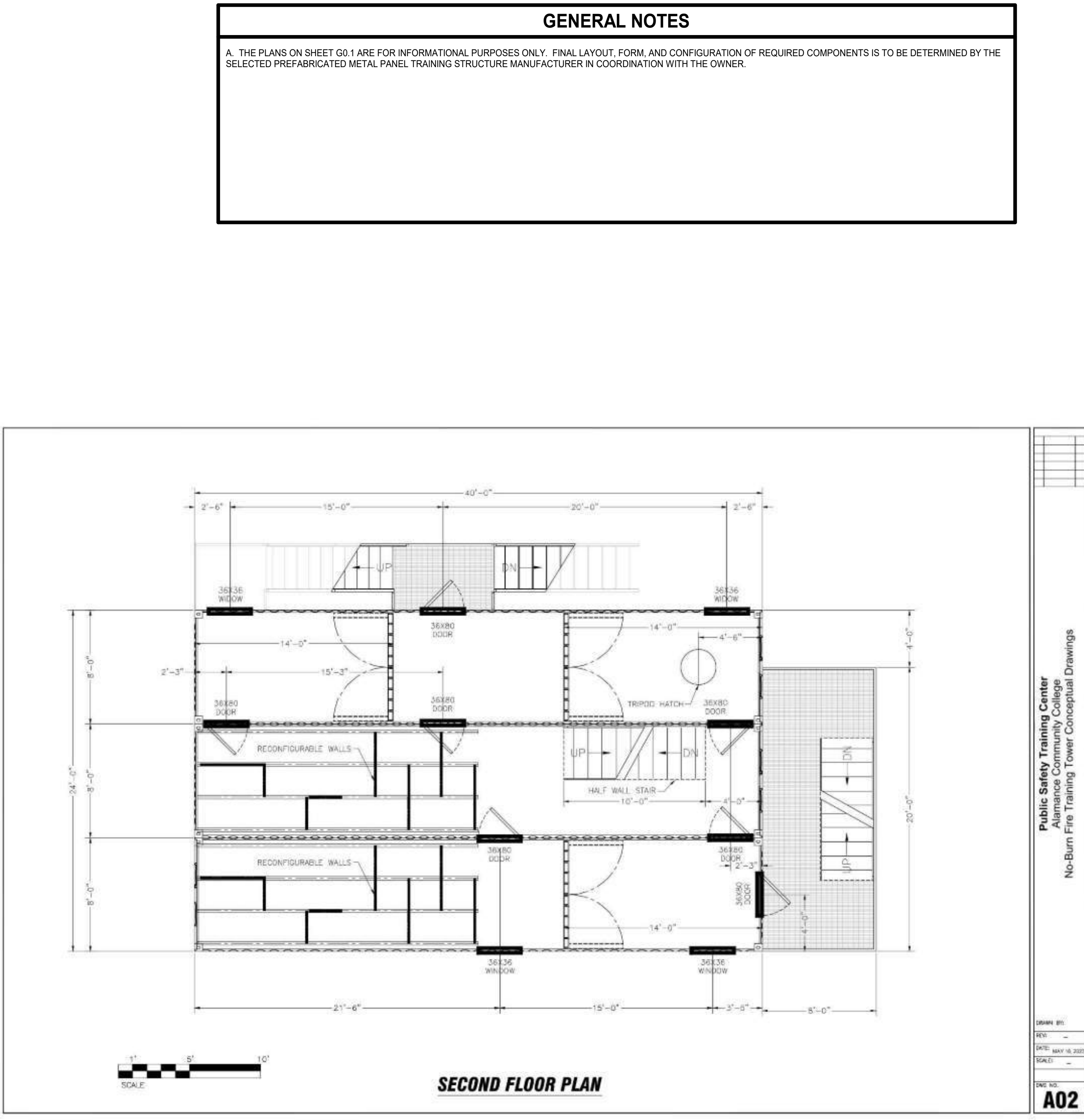
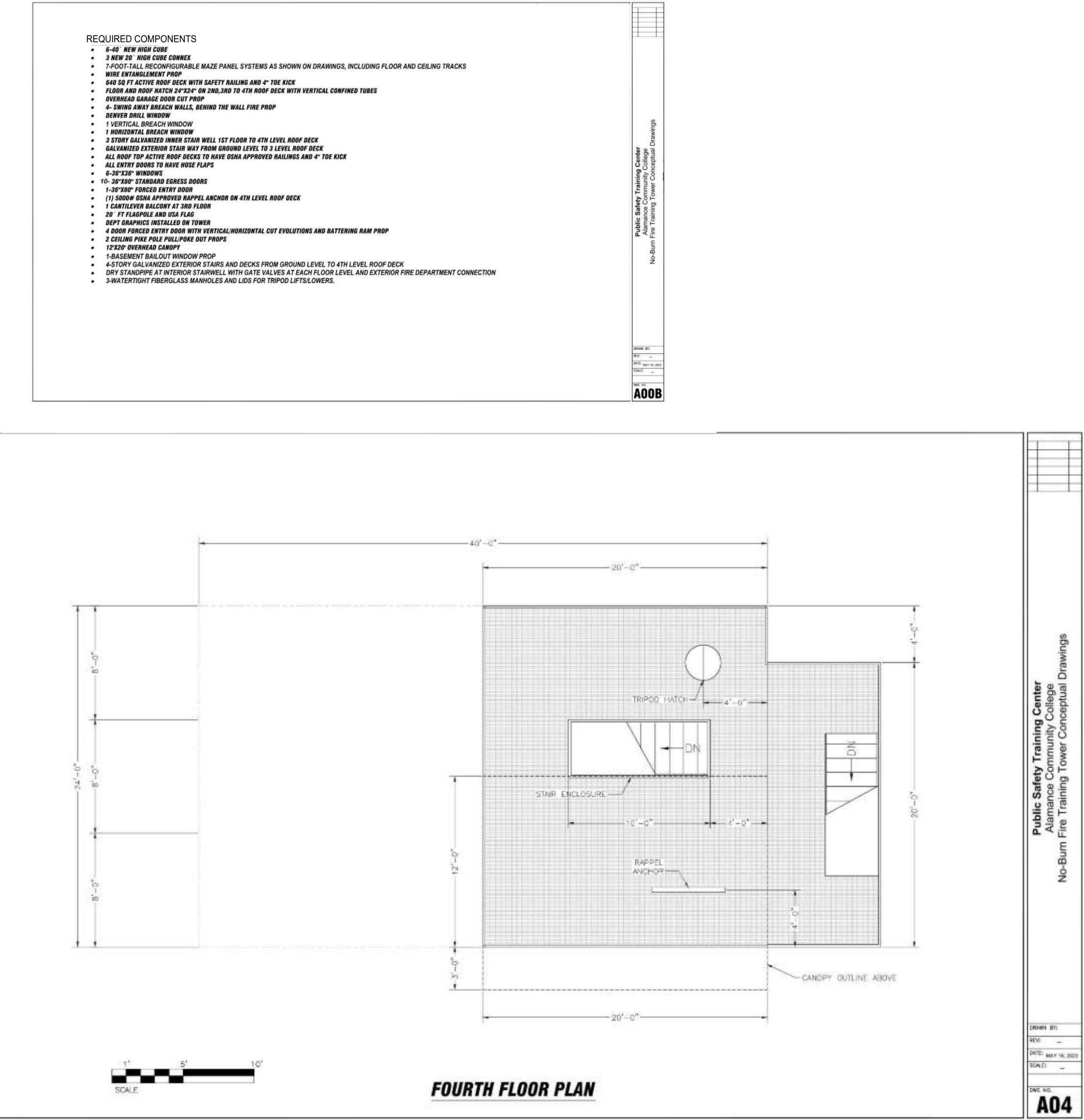
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REVISIONS	
DATE	DESCRIPTION



MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM



CODE DATA SUMMARY

THIS SUMMARY DOES NOT IDENTIFY ALL APPLICABLE CODE SECTIONS AND IS A SUMMARY OF SELECTED CODE SECTIONS ONLY. CODE SECTIONS NOT IDENTIFIED OR OTHERWISE INDICATED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND REGULATIONS TO COMPLETE THE WORK.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Public Safety Training Center – Classroom-Administration Building
Address: 2661 Sandy Cross Road, Burlington, NC Zip Code 27217
Owner/Authorized Agent: Tom Hartman Phone # (336)-506-4201 E-Mail: thomas.hartman@alamancecc.edu
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER: FIRM Moseley Architects NAME Brod Lockwood LICENSE # 14206 TELEPHONE # (919) 840-0091 E-MAIL: architectural E-Mail: bldgcode@mosleyarchitects.com

Civil Timmons Group Garrett Frank 005780 (919) 866-4951
E-Mail: Garrett.Frank@timmons.com

Site Fire Systems Timmons Group Chris Petree 041935 (919) 866-4951
E-Mail: Chris.Petree@timmons.com

Land Surveyor WithersRavenel Rudolf A. Vendervelde L-5146 (919) 469-3340
E-Mail: rvandervelde@withersravenel.com

Electrical Moseley Architects Brian Wells 040202 (804) 794-7555
E-Mail: bwells@mosleyarchitects.com

Fire Alarm Moseley Architects Brian Wells 040202 (804) 794-7555
E-Mail: bwells@mosleyarchitects.com

Plumbing Moseley Architects Jason Forsyth 037569 (804) 794-7555
E-Mail: jforsyth@mosleyarchitects.com

Mechanical Moseley Architects Jason Forsyth 037569 (804) 794-7555
E-Mail: jforsyth@mosleyarchitects.com

Sprinkler-Standpipe Moseley Architects Brian Wells 040202 (804) 794-7555
E-Mail: bwells@mosleyarchitects.com

Structural Moseley Architects Steven Cooke 035434 (704) 540-3755
E-Mail: scooke@mosleyarchitects.com

Fire Range McLaren Wilson & Lawrie David Wilson N/A (703) 321-2100
E-Mail: wilson@mwlawrarchitects.com

Fire Training Elliott, LeBoeuf & McElwain Roger LeBoeuf N/A (703) 321-2100
E-Mail: rger@elamgmarchitects.com

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: N/A N/A N/A

CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3):
RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3):

RISK CATEGORY (Table 1604.5): Current: N/A Proposed: III

BASIC BUILDING DATA

Construction Type: II-B

Sprinklers: Yes NFPA 13

Standpipes: No

Primary Fire District: Yes

Fire Hazard Area: No

Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1 st Floor	0 SF	15,108 SF	15,108 SF
TOTAL	0 SF	15,108 SF	15,108 SF

ALLOWABLE AREA

Primary Occupancy Classification(s): Business Assembly - A-3

Accessory Occupancy Classification(s): Storage - S1, Storage - S2

Incidental Uses (Table 509):

Special Uses (Chapter 4 – List Code Sections):

Special Provisions: (Chapter 5 – List Code Sections):

Mixed Occupancy: Yes Separation: 01HR Exception: 2018 NC Building Code 508.3 Nonseparated Occupancies

Non-Separated Use (508.3)

$$\frac{Actual\ Area\ of\ Occupancy\ A}{Allowable\ Area\ of\ Occupancy\ A} + \frac{Actual\ Area\ of\ Occupancy\ B}{Allowable\ Area\ of\ Occupancy\ B} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2, AREA INCREASE ^{1,2}	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{1,2}
1	B – Business	1,794 SF	92,000 SF	N/A	92,000 SF
1	A3 – Assembly	10,275 SF	38,000 SF	N/A	38,000 SF

¹ Frontage area increases from Section 506.3 are computed thus:

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (P)
c. Ratio (F/P) = (F/P)
d. W = Minimum width of public way = (W)
e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 =$ (%)

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	75'-0"	20'-8"	
Building Height in Stories (Table 504.4) ³	3	1	

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

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ REDUCTIONS)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	N/A	0 HR	0 HR				
Bearing Walls							
Exterior							
North	X-30	0 HR	0 HR				
East	X-30	0 HR	0 HR				
West	X-30	0 HR	0 HR				
South	X-30	0 HR	0 HR				
Interior	X-30	0 HR	0 HR				
Nonbearing Walls and Partitions							
Exterior walls							
North	X-30	0 HR	0 HR				
East	X-30	0 HR	0 HR				
West	X-30	0 HR	0 HR				
South	X-30	0 HR	0 HR				
Interior walls and partitions	X-30	0 HR	0 HR				
Floor Construction							
Including supporting beams and joists							
Floor Ceiling Assembly	0 HR	0 HR	0 HR				
Columns Supporting Floors	0 HR	0 HR	0 HR				
Roof Construction, including supporting beams and joists	0 HR	0 HR	0 HR				
Roof Ceiling Assembly	0 HR	0 HR	0 HR				
Columns Supporting Roof	0 HR	0 HR	0 HR				
Shaft Enclosures - Exit	N/A	N/A	N/A				
Shaft Enclosures - Other	N/A	N/A	N/A				
Corridor Separation	0 HR	0 HR	0 HR				
Occupancy/Fire Barrier Separation	0 HR	0 HR	0 HR				
Party/Fire Wall Separation	N/A	N/A	N/A				
Smoke Barrier Separation	N/A	N/A	N/A				
Smoke Partition	N/A	N/A	N/A				
Tenant Dwelling Unit/ Sleeping Unit Separation	N/A	N/A	N/A				
Incidental Use Separation	N/A	N/A	N/A				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
X-30	UP, S	No Limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes
Exit Signs: Yes
Fire Alarm: Yes
Smoke Detection Systems: Yes
Carbon Monoxide Detection: No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.1.1 – Classroom-Administration Building Life Safety Information

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit sign locations (1013)
☒ Exit access travel distances (1017)
☒ Common path of travel distances (Tables 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
☐ 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)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification 1-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

SECTION NOT APPLICABLE

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
	N/A	81	4	0	4
TOTAL		81	4	0	4

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	SPACE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS			DRINKING FOUNTAINS		
		MALE	FEMALE	UNSEXY	MALE	FEMALE	UNSEXY	MALE	FEMALE	UNSEXY	MALE	FEMALE	UNSEXY	REGULAR	ACCESSIBLE	
EXIST'G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
NEW	2	4	1	2*	2	2	1	4	2	2	2	2	2	2	2	
REQ'D	3	4	1	0	2	2	1	0	2	2	2	2	2	2	2	

* Allowed urinals in place of water closets: 1

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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: N/A

Exempt Building: No Provide code or statutory reference:

Climate Zone: 3A

Method of Compliance: Energy Code - Prescriptive
(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: TPO membrane on cover board with continuous rigid insulation with vapor/air barrier membrane on a substrate board on roof deck
U-Value of total assembly: 0.0596 BTU/hr/ft²°F
R-Value of insulation: R19ci
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)

Description of assembly: Masonry veneer on 6" metal stud with sprayfoam insulation
U-Value of total assembly: 0.0177 BTU/hr/ft²°F
R-Value of insulation: 16.25ci
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors over unconditioned space (each assembly)

Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade

Description of assembly: 4" Concrete Slab with vapor barrier
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.1
Seismic (I_e) 1.25
Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor VARIES 50-150 psf
Ground Snow Load: 15 psf
Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: B

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) III
Spectral Response Acceleration S_s 15.6 %g S₁ 7.8 %g
Site Classification (ASCE 7) C
Data Source: Field Test
Basic structural system Building Frame
Analysis Procedure: Equivalent Lateral Force
Architectural, Mechanical, Components anchored? No

LATERAL DESIGN CONTROL: Both WIND: V_X=56 KIPS, V_Y=143 KIPS
SEISMIC: V_X=53 KIPS, V_Y=53 KIPS

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) 2500 psf
Pile size, type, and capacity NONE

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: 18.5°F
summer dry bulb: 94.4°F

Interior design conditions

winter dry bulb: 70°F
summer dry bulb: 75°F
relative humidity: 50%

Building heating load: 408,000 Btu/hr

Building cooling load: 540,000 Btu/hr

Mechanical Spacing Conditioning System

Unitary description of unit: Packaged AC unit with Electric Heat
heating efficiency: N/A
cooling efficiency: 10.1 EER
size category of unit: >240,000 Btu/h and <760,000 Btu/h
Boiler Size category: If oversized, state reason: N/A
Chiller Size category: If oversized, state reason: N/A

List equipment efficiencies: See above

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code - Performance

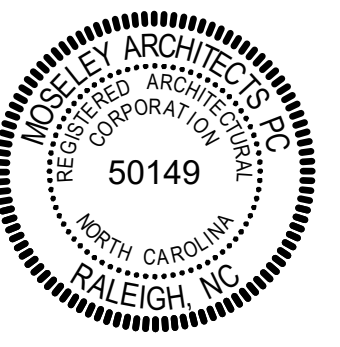
Lighting schedule REFER TO LIGHT FIXTURE SCHEDULE

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space) 7837w vs. 13143w
total exterior wattage specified vs. allowed 148W vs 750W

Additional Efficiency Package Options

(When using the 2018 NEC/C; 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



PROJECT NO: 800646
DATE: AUGUST 14, 2023
REVISIONS
DATE DESCRIPTION

CODE DATA SUMMARY

THIS SUMMARY DOES NOT IDENTIFY ALL APPLICABLE CODE SECTIONS AND IS A SUMMARY OF SELECTED CODE SECTIONS ONLY. CODE SECTIONS NOT IDENTIFIED OR OTHERWISE INDICATED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND REGULATIONS TO COMPLETE THE WORK.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Public Safety Training Center – Indoor Firing Range
Address: 2661 Sandy Cross Road, Burlington, NC Zip Code 27217
Owner/Authorized Agent: Tom Hartman Phone # (336) 506-4201 E-Mail: thomas.hartman@alamancecc.edu
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Brad Lockwood	14206	(919) 840-0091	
		E-Mail: bradlockwood@moseleyarchitects.com			

Civil	Timmons Group	Garrett Frank	005780	(919) 866-4951	
		E-Mail: Garrett.Frank@timmons.com			

Site Fire Systems	Timmons Group	Chris Petree	041935	(919) 866-4951	
		E-Mail: Chris.Petree@timmons.com			

Land Surveyor	WithersRavenel	Rudolf A. Vendervelde	L-5146	(919) 469-3340	
		E-Mail: rvendervelde@withersravenel.com			

Electrical	Moseley Architects	Brian Wells	040202	(804) 794-7555	
		E-Mail: bwells@moseleyarchitects.com			

Fire Alarm	Moseley Architects	Brian Wells	040202	(804) 794-7555	
		E-Mail: bwells@moseleyarchitects.com			

Plumbing	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	
		E-Mail: jforsyth@moseleyarchitects.com			

Mechanical	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	
		E-Mail: jforsyth@moseleyarchitects.com			

Sprinkler/Standpipe	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	
		E-Mail: jforsyth@moseleyarchitects.com			

Structural	Moseley Architects	Steven Cooke	035434	(704) 540-3755	
		E-Mail: scooke@moseleyarchitects.com			

Fire Range	McLaren Wilson & Lawrie David Wilson	N/A		(703) 321-2100	
		E-Mail: cdwilson@mclawarchitects.com			

Fire Training	Elliot, LeBoeuf & McElwain Roger LeBoeuf	N/A		(703) 321-2100	
		E-Mail: roger@eleneengineers.com			

2018 NC BUILDING CODE: New Building**2018 NC EXISTING BUILDING CODE: N/A**

CONSTRUCTED: (date) 2024 (estimated) CURRENT OCCUPANCY(S) (Ch. 3): N/A
RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): A-3 Assembly

RISK CATEGORY (Table 1604.5): Current: N/A Proposed: II

BASIC BUILDING DATA

Construction Type: III-B

Sprinklers: Yes NFPA 13

Standpipes: No

Primary Fire District: Yes

Fire Hazard Area: No

Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
1 st Floor	0 SF	13,556 SF	13,556 SF
TOTAL	0 SF	13,556 SF	13,556 SF

ALLOWABLE AREA

Primary Occupancy Classification(s): Business; A-3 – Assembly

Accessory Occupancy Classification(s): Storage – S-1; Storage – S-2

Incidental Uses (Table 509):

Special Uses (Chapter 4 – List Code Sections):

Special Provisions: (Chapter 5 – List Code Sections):

Mixed Occupancy: Yes Separation: 0 HR

Exception: 2018 NC Building Code 508.3.2 requires High-Hazard Group H-3 to be separated from all other occupancies according to Section 508.4

Non-Separated Use (508.3)

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

STORY NO.	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
1	A-3 – Assembly	10,120 SF	38,000 SF	N/A	
1	B – Business	1,088 SF	76,000 SF	N/A	
1	S-2 – Storage	247 SF	104,000 SF	N/A	
1	S-1 – Storage	229 SF	17,500 SF	N/A	

¹ Frontage area increases from Section 506.3 are computed thus:

- Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
- Total Building Perimeter = _____ (P)
- Ratio (F/P) = _____ (F/P)
- W = Minimum width of public way = _____ (W)
- Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 = \text{_____} (\%)$

² Unlimited area applicable under conditions of Section 507.

³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).

⁴ The maximum area of open parking garages must comply with Table 406.5.4.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT			
	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE ¹
Building Height in Feet (Table 504.3) ²	75'-0"	20'-8"	
Building Height in Stories (Table 504.4) ³	3	1	

2018 NC Administrative Code and Policies

Revised 6/15/2020

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

² The maximum height of air traffic control towers must comply with Table 412.3.1.

³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, joists	X-30	0 HR	0 HR				
Bearing Walls							
Exterior							
North	X-30	0 HR	0 HR				
East	X-30	0 HR	0 HR				
West	X-30	0 HR	0 HR				
South	X-30	0 HR	0 HR				
Interior	X-30	0 HR	0 HR				
Nonbearing Walls and Partitions							
Exterior walls	X-30	0 HR	0 HR				
North	X-30	0 HR	0 HR				
East	X-30	0 HR	0 HR				
West	X-30	0 HR	0 HR				
South	X-30	0 HR	0 HR				
Interior walls and partitions	X-30	0 HR	0 HR				
Floor Construction including supporting beams and joists		0 HR	0 HR				
Floor Ceiling Assembly		0 HR	0 HR				
Columns Supporting Floors		0 HR	0 HR				
Roof Construction, including supporting beams and joists		0 HR	0 HR				
Roof Ceiling Assembly		0 HR	0 HR				
Columns Supporting Roof		0 HR	0 HR				
Shaft Enclosures - Exit		N/A	N/A				
Shaft Enclosures - Other		N/A	N/A				
Corridor Separation		0 HR	0 HR				
Occupancy Fire Barrier Separation		0 HR	1 HR	LS1.1.2	X2		
Party Fire Wall Separation		0 HR	0 HR				
Smoke Barrier Separation		0 HR	0 HR				
Smoke Partition		0 HR	0 HR				
Tenant Dwelling Unit/ Sleeping Unit Separation		0 HR	0 HR				
Incidental Use Separation		0 HR	0 HR				

¹ Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.3)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
X-30	UP, S	No Limit	

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:	Yes
Exit Signs:	Yes
Fire Alarm:	Yes
Smoke Detection Systems:	Yes
Carbon Monoxide Detection:	No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1.1.2 – Indoor Firing Range Life Safety Information

- ☐ Fire and or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☒ Occupant loads for each area
- ☐ Exit sign locations (1013)
- ☒ Exit access travel distances (1017)
- ☐ Common path of travel distances (Tables 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
- ☐ 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)
- ☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
- ☐ Location of doors equipped with hold-open devices
- ☐ Location of emergency escape windows (1030)
- ☐ The square footage of each fire area (202)
- ☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

SECTION NOT APPLICABLE**ACCESSIBLE PARKING**

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	96" SPACES	132" SPACES	TOTAL # ACCESSIBLE PROVIDED
	N/A	69	3	0	3
TOTAL		69	3	0	3

PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

2018 NC Administrative Code and Policies

Revised 6/15/2020

USE		WATERCLOSETS			URINALS			LAVATORIES			SHOWERS /TUBS		DRINKING FOUNTAINS	
		MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
SPACE	EXIST'G	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
NEW	1	1	1	N/A	0	1	1	0	N/A	1	1	1	1	1
REQ'D	1	1	1	N/A	0	1	1	0	N/A	1	1	1	1	1

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

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: N/A

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: 3A

Method of Compliance: Energy Code - Prescriptive

(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: TPO membrane on cover board with continuous rigid insulation with vapor/air barrier membrane on a substrate board on roof deck

U-Value of total assembly: 0.0596 BTU/hr/ft²/°F

R-Value of insulation: R38s

Skylights in each assembly: N/A

U-Value of skylight: N/A

total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)

Description of assembly: Masonry veneer on 8" concrete with sprayfoam insulation

U-Value of total assembly: 0.0434 BTU/hr/ft²/°F

R-Value of insulation: 16.25s

Openings (windows or doors with glazing)

U-Value of assembly: _____

Solar heat gain coefficient: _____

projection factor: _____

Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: N/A

U-Value of total assembly: N/A

R-Value of insulation: N/A

Floors over unconditioned space (each assembly)

Description of assembly: N/A

U-Value of total assembly: N/A

R-Value of insulation: N/A

Floors slab on grade

Description of assembly: 4" Concrete Slab with vapor barrier

U-Value of total assembly: _____

R-Value of insulation: _____

Horizontal/vertical requirement: _____

slab heated: _____

2018 APPENDIX B**BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS****STRUCTURAL DESIGN**

(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_e) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor VARIES 50-150 psf

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: B

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) II

Spectral Response Acceleration S_s 15.6 % S₁ 7.8 %

Site Classification (ASCE 7) C

Data Source: Field Test

Basic structural system Bearing Wall

Analysis Procedure: Equivalent Lateral Force

Architectural, Mechanical, Components anchored? No

LATERAL DESIGN CONTROL: Both WIND: V_X = 34 KIPS, V_Y = 149 KIPS
SEISMIC: V_X = 113 KIPS, V_Y = 113 KIPS

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) 2500 psf

Pile size, type, and capacity NONE

2018 NC Administrative Code and Policies

Revised 6/15/2020

2018 NC Administrative Code and Policies

Revised 6/15/2020

PROJECT NO: 800646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

INDOOR FIRING RANGE
CODE SUMMARY

LS1.0.2

MOSELEYARCHITECTS



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 800646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

CODE DATA SUMMARY

THIS SUMMARY DOES NOT IDENTIFY ALL APPLICABLE CODE SECTIONS AND IS A SUMMARY OF SELECTED CODE SECTIONS ONLY. CODE SECTIONS NOT IDENTIFIED OR OTHERWISE INDICATED DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH APPLICABLE CODES, STANDARDS, AND REGULATIONS TO COMPLETE THE WORK.

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Public Safety Training Center – Training Tower
Address: 2661 Sandy Cross Road, Burlington, NC Zip Code 27217
Owner/Authorized Agent: Tom Hartman Phone # (336)-506-4201 E-Mail thomas.hartman@alamancecc.edu
Owned By: County
Code Enforcement Jurisdiction: County

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Moseley Architects	Brad Lockwood	14206	(919) 840-0091	E-Mail: lockwood@moseleyarchitects.com
Civil	Timmons Group	Garrett Frank	005780	(919) 866-4951	E-Mail: Garrett.Frank@timmons.com
Site Fire Systems	Timmons Group	Chris Petree	041935	(919) 866-4951	E-Mail: Chris.Petree@timmons.com
Land Surveyor	WithersRavenel	Rudolf A. Vendervelde	L-5146	(919) 469-3340	E-Mail: rvandervelde@withersravenel.com
Electrical	Moseley Architects	Brian Wells	040202	(804) 794-7555	E-Mail: bwells@moseleyarchitects.com
Fire Alarm	Moseley Architects	Brian Wells	040202	(804) 794-7555	E-Mail: bwells@moseleyarchitects.com
Plumbing	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	E-Mail: jforsyth@moseleyarchitects.com
Mechanical	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	E-Mail: jforsyth@moseleyarchitects.com
Sprinkler Standpipe	Moseley Architects	Jason Forsyth	037569	(804) 794-7555	E-Mail: jforsyth@moseleyarchitects.com
Structural	Moseley Architects	Steven Cooke	035434	(704) 540-3755	E-Mail: scooke@moseleyarchitects.com
Fire Range	McLaren Wilson & Lawrie David Wilson	N/A		(705) 321-2100	E-Mail: wilson@mwlarchitects.com
Fire Training	Elliott, LeBoeuf & McElwain Roger LeBoeuf N/A			(703) 321-2100	E-Mail: roger@elenginects.com

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: N/A

CONSTRUCTED: (date) _____ CURRENT OCCUPANCY(S) (Ch. 3): _____
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): _____

RISK CATEGORY (Table 1604.5): Current: Select one Proposed: Select one

BASIC BUILDING DATA

Construction Type: II-B

Sprinklers: No Select one

Standpipes: N/A

Primary Fire District: Yes

Flood Hazard Area: No

Special Inspections Required: Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor	0 SF	1,120 SF	1,120 SF
2 nd Floor	0 SF	1,120 SF	1,120 SF
1 st Floor	0 SF	1,120 SF	1,120 SF
TOTAL	0 SF	3,360 SF	3,360 SF

ALLOWABLE AREA

Primary Occupancy Classification(s): Utility and Miscellaneous;

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): _____

Mixed Occupancy: No Separation: Select one Exception: _____

No
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

+ _____ + = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2 ⁴ AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,5}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ^{2,3}
1	U-Utility	1,120 SF	8,500 SF	N/A	
2	U-Utility	1,120 SF	8,500 SF	N/A	
3	U-Utility	1,120 SF	8,500 SF	N/A	

¹ Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100(F/P - 0.25) \times W/30 =$ _____ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4.
⁵ Frontage increase is based on the un sprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

SECTION NOT APPLICABLE

FIRE PROTECTION REQUIREMENTS

SECTION NOT APPLICABLE

PERCENTAGE OF WALL OPENING CALCULATIONS

SECTION NOT APPLICABLE

LIFE SAFETY SYSTEM REQUIREMENTS

SECTION NOT APPLICABLE

LIFE SAFETY PLAN REQUIREMENTS

SECTION NOT APPLICABLE

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

SECTION NOT APPLICABLE

ACCESSIBLE PARKING

(SECTION 1106)

SECTION NOT APPLICABLE

PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

SECTION NOT APPLICABLE

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY

SECTION NOT APPLICABLE

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Tower is prefabricated. Tower designer is to provide all relevant structural information with submittals, and those calculations will be reviewed by the Structural engineer at that time.

Importance Factors: Snow (s_s) BY DELEGATED DESIGN ENGINEER
Seismic (I_s) BY DELEGATED DESIGN ENGINEER

Live Loads: Roof BY DELEGATED DESIGN ENGINEER
Mezzanine BY DELEGATED DESIGN ENGINEER
Floor BY DELEGATED DESIGN ENGINEER

Ground Snow Load: 15 psf

Wind Load: Ultimate Wind Speed Exposure Category C BY DELEGATED DESIGN ENGINEER (ASCE-7)

SEISMIC DESIGN CATEGORY: BY DELEGATED DESIGN ENGINEER

Provide the following Seismic Design Parameters:

Risk Category (Table 1604.5) BY DELEGATED DESIGN ENGINEER

Spectral Response Acceleration S_s 15.6 % S₁ 7.8 %g

Site Classification (ASCE 7) C

Data Source: Field Test

Basic structural system BY DELEGATED DESIGN ENGINEER

Analysis Procedure: BY DELEGATED DESIGN ENGINEER

Architectural, Mechanical, Components anchored? BY DELEGATED DESIGN ENGINEER

LATERAL DESIGN CONTROL: BY DELEGATED DESIGN ENGINEER

SOIL BEARING CAPACITIES:

2500 psf
Pile size, type, and capacity BY DELEGATED DESIGN ENGINEER

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

SECTION NOT APPLICABLE

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Select one

Lighting schedule (each fixture type)

lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed

Additional Efficiency Package Options
(When using the 2018 NCEC; 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

TRAINING TOWER GENERAL NOTES

- A. THE TRAINING TOWER IS NOT A "BUILDING" BUT RATHER A PROP TO TRAIN ABLE-BODIED FIREFIGHTERS UNDER TRAINING SCENARIOS.
- B. THE TRAINING TOWER IS A PREFABRICATED CONTAINERIZED STRUCTURE THAT IS SPECIFIED IN THE PROJECT MANUAL.
- C. THE TRAINING TOWER WILL NOT BE AN OCCUPIED STRUCTURE, EXCEPT DURING TRAINING EXERCISES.
- D. DURING A ROUTINE TRAINING SCENARIO IN THE TRAINING TOWER, ALAMANCE COMMUNITY COLLEGE PERSONNEL WILL INSTRUCT STUDENTS IN PROPER TECHNIQUES FOR EXTINGUISHING FIRES, HOSE ADVANCEMENT, SEARCH AND RESCUE, AND OTHER FIREFIGHTING SKILLS.
- E. AT THE END OF EACH TRAINING DAY, ALAMANCE COMMUNITY COLLEGE PUBLIC SAFETY TRAINING CENTER PERSONNEL WILL SECURE THE PROP, AT WHICH POINT IT WILL REMAIN UNOCCUPIED UNTIL THE NEXT TIME TRAINING OCCURS.
- F. GIVEN THIS USE, MANY ITEMS USUALLY INCLUDED (AND REQUIRED) IN BUILDING DESIGN WILL NOT BE INCORPORATED INTO THE DESIGN OF THESE PROPS, SUCH AS:

- EXIT SIGNAGE
- PANIC HARDWARE ON DOORS
- FIRE PROTECTION SYSTEM, EXCEPT FOR PERHAPS DRY STANDPIPES AND A FEW SPRINKLER HEADS TO BE USED SOLELY AS TRAINING TOOLS
- SMOKE DETECTORS
- HVAC SYSTEMS
- LIGHTING, INCLUDING EMERGENCY LIGHTING (OTHER THAN SOME MINIMAL LIGHTING FOR TRAINING PURPOSES)
- FINISHES (PAINT, CARPETING, FINISHED CEILINGS)
- ADA ACCESSIBILITY RAMPS, ELEVATORS, DOORWAYS, AND AUTOMATIC DOOR OPENERS
- FIRE EXTINGUISHERS

A. STRUCTURAL COMPONENTS OF THE TOWER WILL BE DESIGNED IN ACCORDANCE WITH THE 2018 VERSION OF THE NORTH CAROLINA STATE BUILDING CODE (2015, INTERNATIONAL BUILDING CODE, WITH NORTH CAROLINA AMENDMENTS), INCLUDING THOSE REQUIREMENTS FOR SNOW, WIND, AND SEISMIC LOADS.

B. THE TRAINING TOWER WILL NOT HAVE ITS "BUILDING OCCUPANCY" OR THE "TYPE OF CONSTRUCTION" CLASSIFIED IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE BECAUSE IT DOES NOT COME CLOSE TO MEETING ANY OF THE DEFINED "BUILDING OCCUPANCIES", ESPECIALLY CONSIDERING IT IS NOT A BUILDING.

MOSELEYARCHITECTS



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 600646
DATE: AUGUST 14, 2023
REVISIONS
DATE DESCRIPTION

TRAINING TOWER CODE
SUMMARY

LS1.0.4

BXUV,U419 - Fire-resistance Ratings - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

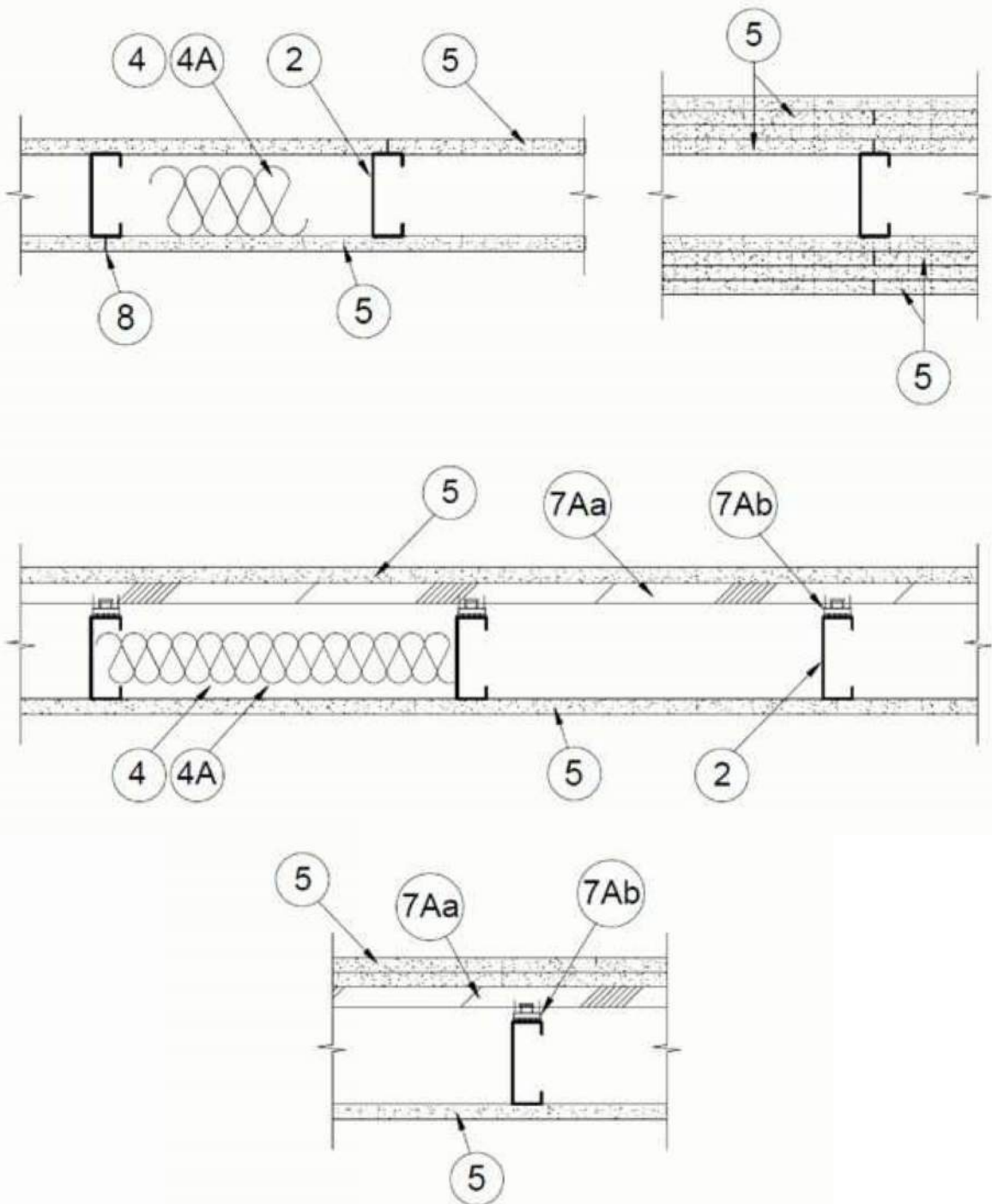
See General Information for Fire-Resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variations

See General Information for Fire-Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variations

Design No. U419

September 5, 2022

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)
* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 28, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

18. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC. max.

SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner** — For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track V1100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track V1100

1I. **Framing Members* — Floor and Ceiling Runners** — (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 1-1/4 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

1K. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1L. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners** — Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners** — Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner** — Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs** — (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5I or Type ULUX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs** — (As an alternate to Item 2, For use with Items 5C, 5I or Type ULUX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs** — In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP. BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

TELLING INDUSTRIES L L C — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULUX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.

SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5. Studs to be cut 3/8 to 3/4 in less than the assembly height.

STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs** — (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

TELLING INDUSTRIES L L C — TRUE-UTD™

2I. **Framing Members* — Steel Studs** —

2J. **Framing Members* — Metal Studs** — Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights

2K. **Framing Members* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs** — As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.

RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs** — As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs** — Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Structural Panel Sheathing** — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P51 or P52, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC, in the perimeter and 12 in. OC, in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom. thickness as indicated under Item 5.

See **Batts and Blankets** (BKNV or BZIZ) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKNV or BZIZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed*** — (Optional, for use with Type ULUX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCA2).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. **Foamed Plastic*** — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5K) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCK, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCK, Foamulate 70, and Foamulate HFO.

4D. **Foamed Plastic*** — (Where Batts and Blankets*, Item 4, are optional, for use with Item 5L) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enertite® NAA Enertite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Walltite HPA, FE137®, FE158®, Spraytite® 158, Spraytite® 5P and Spraytite® 81205

5. **Gypsum Board*** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULUX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULUX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) — 1/2 in. thick Type C and 5/8 in. thick Type SCX.

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULUX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR, 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C, 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to framing channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board*** — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.

CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board*** — (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5. Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and stagger one stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).

RAY-BAR ENGINEERING CORP — Type RB-LRG

5C. **Gypsum Board*** — (For Use With Item 2B) — Rating Limited to 1 Hour, 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical

FIRE RATED ASSEMBLIES				
REPRESENTED BY (Xn)				
THE ASSEMBLIES REFERENCED ARE BASIS OF DESIGN; EQUIVALENT COMPATIBLE TESTED ASSEMBLIES WILL BE ACCEPTABLE IF APPROVED BY THE LAHJ				
MARK	FIRE RATING	APPLIES TO	REFERENCE	REMARKS
X1	1HR	GYPCFSF FIRE PARTITION	UL U419	INTERIOR NON-BEARING
X2	2HR	GROUTED SOLID CMU FIRE BARRIER	NORTH CAROLINA BUILDING CODE TABLE 722.3.2	INTERIOR NON-BEARING
X3	1HR	GROUTED SOLID CMU FIRE BARRIER	NORTH CAROLINA BUILDING CODE TABLE 722.3.2	INTERIOR NON-BEARING



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edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type 5 coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Restorative Directory.

CGC INC — Type SCX, ULX.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — Type SCX, SGX, ULX.
USG BORAL DRYWALL SFZ LLC — Type SCX
USG MEXICO S A DE C V — Type SCX

5D. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX
USG BORAL DRYWALL SFZ LLC — Type USGX
USG MEXICO S A DE C V — Type USGX

5E. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO, INC. DBA NELCO — Nelco

5F. Gypsum Board* — (As an alternate to Item 5) — For use with items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type 5 screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX
UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULX
USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. Gypsum Board* — (As an alternate to Item 5) — For use with items 1E and 2E only, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall			
Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thins of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, X2, IP-X2, IPC-AR, SCX, SHX, ULX or 3/4 in. thick Types IP-X3 or ULTRACODE
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX
UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, FRX-G, IP-AR, IP-X2, IPC-AR, ULX, 3/4 in. thick Types IP-X3 or ULTRACODE
USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE
USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, X2, IPC-AR, SCX, SHX, or 3/4 in. thick Types IP-X3 or ULTRACODE

5H. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall Table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type 5-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULUX, ULX
UNITED STATES GYPSUM CO — Type ULUX, ULX
USG MEXICO S A DE C V — Type ULX

5J. Gypsum Board* — (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified. For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

5K. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type 5 steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 8 in. OC.

5L. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4D) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type 5 steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-7/8 in. long steel screws spaced 8 in. OC.

6. Fasteners — (Not Shown) — For use with Items 2 and 2F - Type 5 or 5-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULUX:** 1 in. long, spaced 12 in. OC in the field and perimeter; when panels are applied horizontally or vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type 5-12 steel screws. Not for use with Item 5A.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type homax.

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PUITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILIMOUNT Sound Isolation Clips - Type A227 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonuClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.
b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. Lead Batten Strips — (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type 5-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations.

11A. Lead Batten Strips — (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type 5-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. Lead Discs or Tabs — (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

12A. Lead Discs — (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-2011, Grades "B, C or D".

13. Lead Batten Strips — (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type 5-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type 5-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. Lead Tabs — (Not Shown, For Use With Item 5D) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of

the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**
Last Updated on 2022-09-05

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2HR FIRE BARRIER

GROUTED SOLID CONCRETE MASONRY UNIT
CMU SHALL BE BASED ON ASTM C90
EQUIVALENT THICKNESS OF GROUTED CMU = ACTUAL THICKNESS

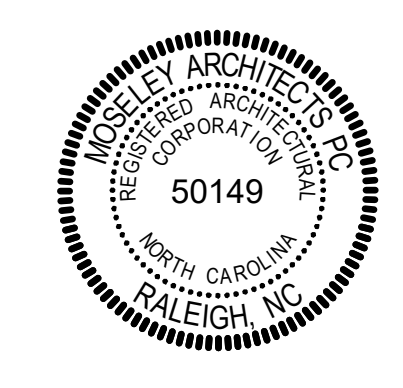
TABLE 722.3.2 (MINIMUM THICKNESS)	
AGGREGATE MATERIAL	MIN THICKNESS, INCHES
PUMICE OR EXPANDED SLAG	3.2
EXPANDED SHALE, CLAY OR SLATE	3.6
LIMESTONE, CINDERS, OR LINE/EXPANDED SLAG	4.0
CALCAREOUS OR SILICEOUS GRAVEL	4.2

X3

1HR FIRE BARRIER

GROUTED SOLID CONCRETE MASONRY UNIT
CMU SHALL BE BASED ON ASTM C90
EQUIVALENT THICKNESS OF GROUTED CMU = ACTUAL THICKNESS

TABLE 722.3.2 (MINIMUM THICKNESS)	
AGGREGATE MATERIAL	MIN THICKNESS, INCHES
PUMICE OR EXPANDED SLAG	2.1
EXPANDED SHALE, CLAY OR SLATE	2.6
LIMESTONE, CINDERS, OR LINE/EXPANDED SLAG	2.7
CALCAREOUS OR SILICEOUS GRAVEL	2.8



PROJECT NO: 800646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

OCCUPANCY SCHEDULE - CLASSROOM-ADMINISTRATION BUILDING									
SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	SF	AREA GROSS	NET	TABULAR	OCCUPANCY LOAD ACTUAL DESIGN
A-101	LOBBY	A3	ASSEMBLY, UNCONCENTRATED	15 SF	528	•	•	36	36
A-102A	SHARED OFFICE	B	BUSINESS AREAS	100 SF	154	•	•	3	3
A-102B	DIRECTOR'S OFFICE	B	BUSINESS AREAS	100 SF	154	•	•	2	2
A-102C	INSPECTOR'S OFFICE	B	BUSINESS AREAS	100 SF	137	•	•	2	2
A-102D	BOOTH / TELEPHONE / INSERVICE OFFICE	B	BUSINESS AREAS	100 SF	148	•	•	2	2
A-102E	DIRECTOR'S OFFICE	B	BUSINESS AREAS	100 SF	166	•	•	2	2
A-102F	BREAK ROOM	B	BUSINESS AREAS	100 SF	249	•	•	3	3
A-103	CLASSROOM	A3	EDUCATIONAL CLASSROOM	20 SF	1678	•	•	84	84
A-104	CONFERENCE ROOM	A3	ASSEMBLY, UNCONCENTRATED	15 SF	357	•	•	24	24
A-106	VAULT	S1	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	193	•	•	1	1
A-107	CLASSROOM	A3	EDUCATIONAL CLASSROOM	20 SF	864	•	•	44	44
A-108	JANITOR CLOSET	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	106	•	•	1	1
A-109	CLASSROOM	B	EDUCATIONAL CLASSROOM	20 SF	883	•	•	45	45
A-111	CLASSROOM	A3	EDUCATIONAL CLASSROOM	20 SF	1149	•	•	58	58
A-112	PT/POPAT	A3	EXERCISE ROOM	50 SF	2809	•	•	53	53
A-113	EQUIPMENT AND FILE STORAGE	S1	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	794	•	•	3	3
A-115	DATA	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	95	•	•	1	1
A-116	ELECTRICAL	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	97	•	•	1	1
A-C103	CORRIDOR	B	BUSINESS AREAS	100 SF	316	•	•	4	4
					10820			369	288 369

LIFE SAFETY PLAN KEYNOTES	
APPLIES TO DRAWINGS LS2.1.1-LS2.2.2	
REPRESENTED BY [n]	
1	OPERABLE PARTITION
2	FLAMMABLES SAFETY CABINET; PACKAGED SMALL ARMS AMMUNITION
3	FLAMMABLES SAFETY CABINET; UP TO TWELVE (12) PEPPER SPRAY AND SMOKE CANISTERS TOTAL

LIFE SAFETY SYMBOL LEGEND				
APPLIES TO LS SERIES OF DRAWINGS ONLY				
DESIGNATOR MATRIX				SYMBOLS
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
4 HR FIRE	▲▲▲▲	■	■	■
3 HR FIRE	▶▶▶▶	◆	◆	◆
2 HR FIRE	*****	■	■	■
1 HR FIRE		▶▶▶▶	*****	■
1/2 HR FIRE			*****	■
SMOKE	▲▲▲▲	◆	◆	◆
SMOKE-TIGHT			◆◆◆◆	◆
INCIDENTAL			◆◆◆◆	◆
NOTES:				
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.				
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.				
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.				

1205

ROOM NUMBER

798 1280

DIRECTION OF EGRESS

EGRESS LOAD CAPACITY

NUMBER OF OCCUPANTS

798 1280

DIRECTION OF EGRESS

NUMBER OF OCCUPANTS

EGRESS LOAD CAPACITY

XXXX'-X"

MAXIMUM TRAVEL DISTANCE

XXXX'-X"

COMMON PATH OF TRAVEL

◆

FIRE EXTINGUISHER CABINET

●

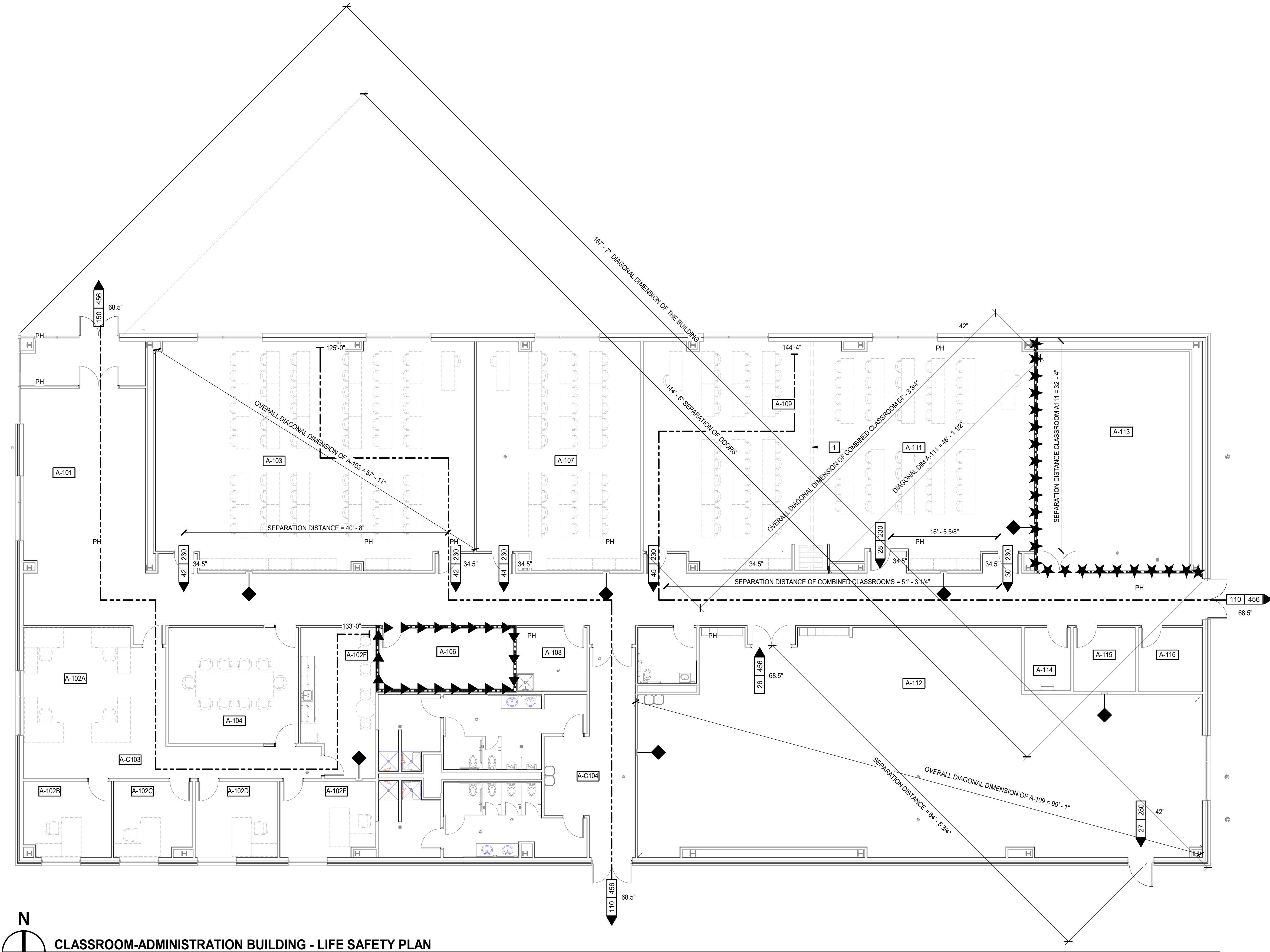
FIRE EXTINGUISHER BRACKET

PH

PANIC HARDWARE

CLASSROOM BUILDING		WATER CLOSETS						LAVATORIES						BATH TUBS/SHOWERS			DRINKING FOUNTAINS			SERVICE SINKS	
OCCUPANCY	OCC LOAD	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
A-3 (gym, halls, libraries)	299	125	1.20		65	2.30		200	0.75		200	0.75		0	0.00		500	0.60		1	
B	63	25	1.30		25	1.30		40	0.80		40	0.80		0	0.00		100	0.63		1	
S-1 and S-2	7	50	0.00		50	0.00		80	0.00		80	0.00		0	0.00		1000	0.01		1	
NEW TOTAL	369	100	0.04		100	0.04		100	0.04		100	0.04		0	0.00		2	4		1	1

*SINGLE-USER UNISEX RESTROOM'S PLUMBING FIXTURES (WATER CLOSET AND LAVATORY) ARE COUNTED TOWARDS THE "PROVIDED" FEMALE COUNT ABOVE.



CLASSROOM-ADMINISTRATION BUILDING - LIFE SAFETY PLAN
1/8" = 1'-0"





INDOOR FIRING RANGE - LIFE SAFETY PLAN
1/8" = 1'-0"



OCCUPANCY SCHEDULE - INDOOR FIRING RANGE									
SPACE NUMBER	SPACE NAME	USE CLASSIFICATION	USED TO DETERMINE OCCUPANCY FACTOR ONLY	FLOOR AREA PER OCCUPANT	SF	AREA GROSS	NET	TABULAR	OCCUPANCY LOAD
B-101	FIRING RANGE	A3	EXERCISE ROOM	50 SF	10122	•		1	60
B-104	CLOSET	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	76	•			1
B-105	COMPRESSOR / EQUIP RM	S2	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	173	•		1	1
B-106	WEAPONS CLEANING/ REPAIR	B	BUSINESS AREAS	100 SF	388	•		4	4
B-107	AMMUNITION STORAGE	S1	ACCESSORY STORAGE & MECHANICAL EQUIPMENT ROOM	300 SF	232	•		1	1
					10990				67

NEW CONSTRUCTION		WATER CLOSETS						LAVATORIES						BATH TUBS/SHOWERS			DRINKING FOUNTAINS			SERVICE SINKS	
		MALE			FEMALE			MALE			FEMALE										
OCCUPANCY	OCC LOAD	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	FACTOR	REQ'D	PROVIDED	REQ'D	PROVIDED
A-3 (gym, halls, libraries)	60	125	0.24		65	0.46		200	0.15		200	0.15		0	0.00		500	0.12			1
B	4	25	0.10		25	0.10		40	0.10		40	0.10		0	0.00		100	0.04		1	
S-1 and S-2	3	50	0.00		50	0.00		80	0.00		80	0.00		0	0.00		1000	0.04		1	
S-1 and S-2	3	100	0.02		100	0.02		100	0.02		100	0.02		0	0.00		1000	0.00		1	
NEW TOTAL	67	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1

LIFE SAFETY PLAN KEYNOTES

APPLIES TO DRAWINGS A1.1, 1-A1.1.n

REPRESENTED BY [n]

1

OPERABLE PARTITION

2

FLAMMABLES SAFETY CABINET; PACKAGED SMALL ARMS AMMUNITION

3

FLAMMABLES SAFETY CABINET; UP TO TWELVE (12) PEPPER SPRAY AND SMOKE CANISTERS TOTAL

LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX					SYMBOLS	
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL		
4 HR FIRE	▲▲▲▲	■ ■ ■ ■				
3 HR FIRE	▶▶▶▶	◆◆◆◆		●●●●		
2 HR FIRE	*****	■ ■ ■ ■				
1 HR FIRE		▶▶▶▶	*****	- - - -		
1/2 HR FIRE			*****			
SMOKE		▲▲▲▲	◆◆◆◆			
SMOKE-TIGHT			◆◆◆◆			
INCIDENTAL			◆◆◆◆			

1205

ROOM NUMBER

798 1280

DIRECTION OF EGRESS

EGRESS LOAD CAPACITY

NUMBER OF OCCUPANTS

798 1280

DIRECTION OF EGRESS

NUMBER OF OCCUPANTS

EGRESS LOAD CAPACITY

XXX'-X"

MAXIMUM TRAVEL DISTANCE

XXX'-X"

CPOT

COMMON PATH OF TRAVEL

◆

FIRE EXTINGUISHER CABINET

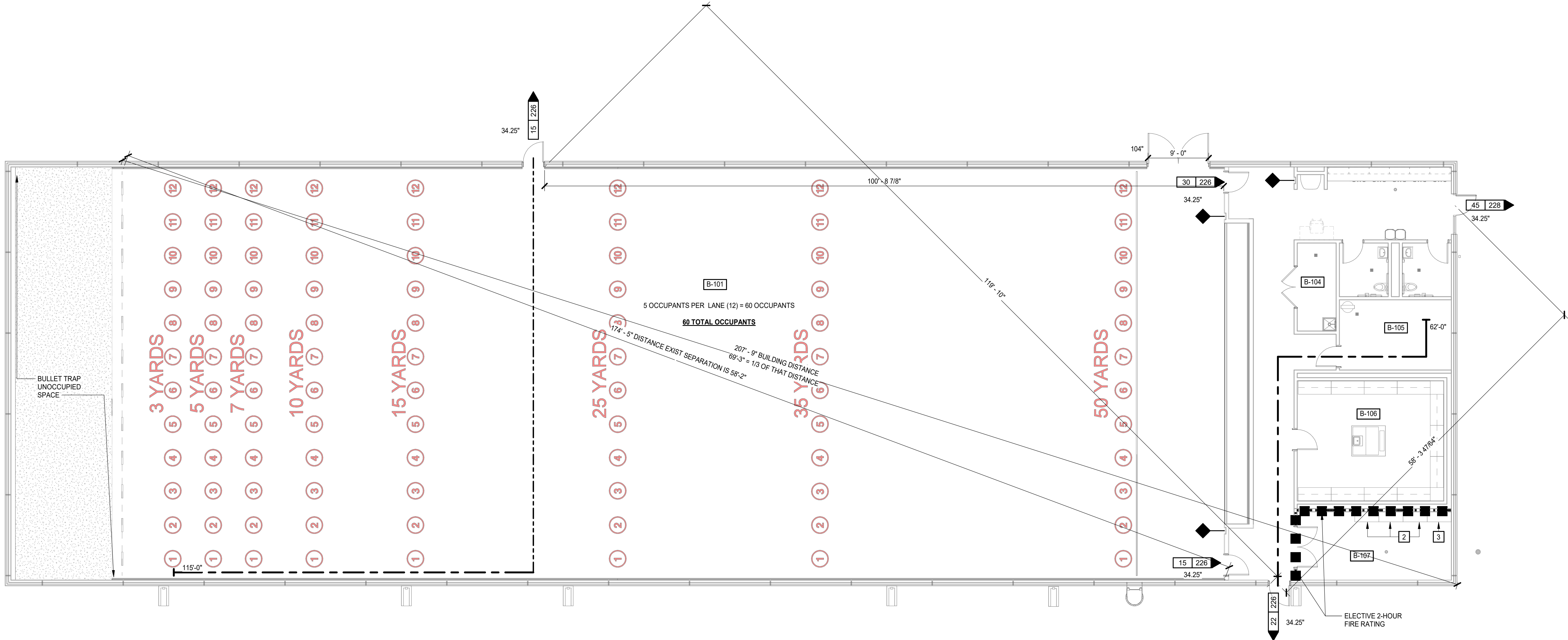
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FIRE EXTINGUISHER BRACKET

PH

PANIC HARDWARE

NOTES:
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.



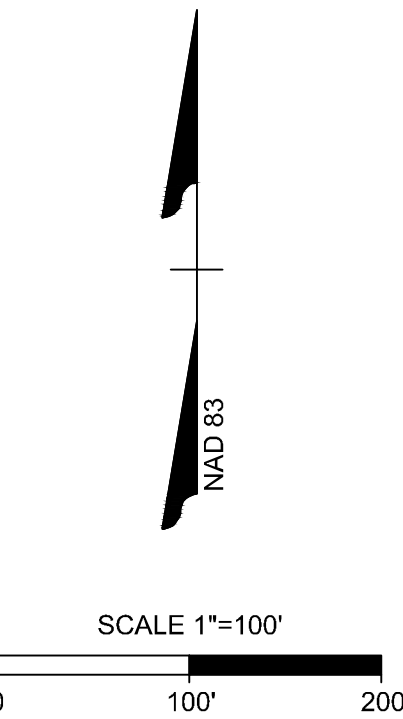
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DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

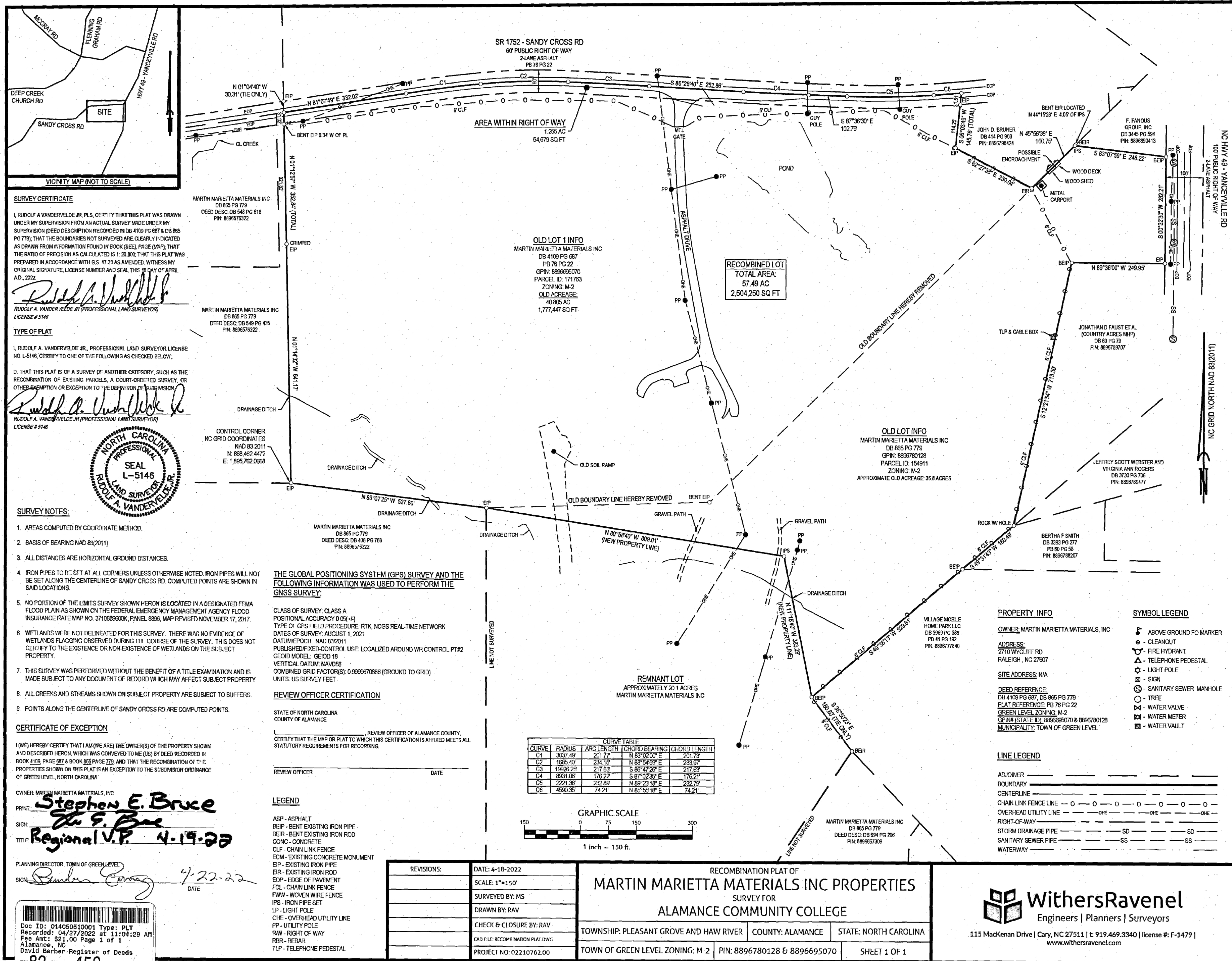


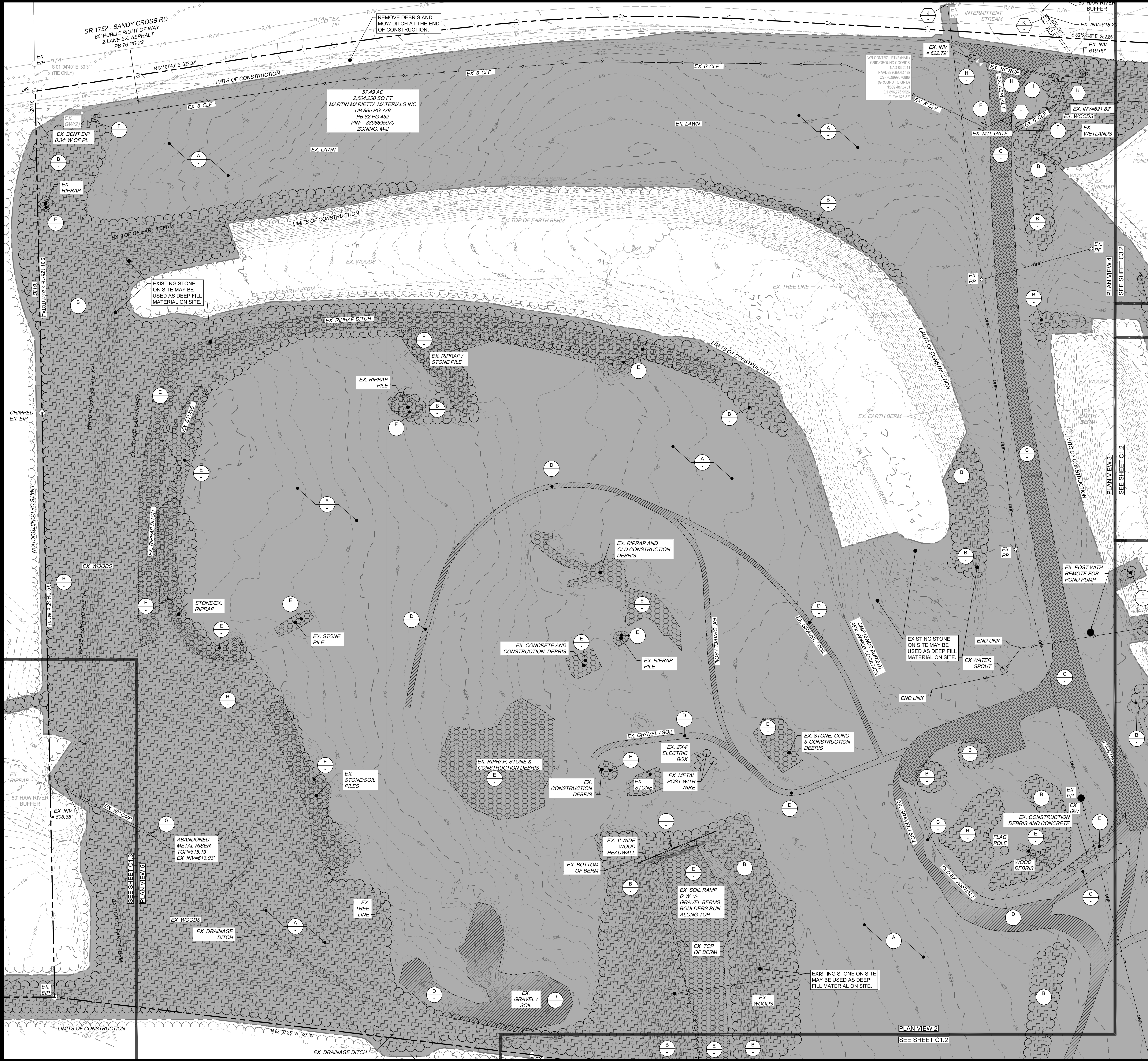
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

100

C0.1







DEMOLITION NOTES

- ALL UTILITIES OR STRUCTURES NOT INDICATED FOR REMOVAL OR MODIFICATION ARE TO REMAIN AND BE PROTECTED FROM DAMAGE.
- ALL WASTE MATERIAL GENERATED FROM CLEARING AND DEMOLITION ACTIVITIES SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS. CONTRACTOR SHALL SALVAGE ALL SIGNAGE, METERS, ETC. TO OWNER. COORDINATE WITH OWNER PRIOR TO DEMOLITION.
- CLEAR AND GRUB AS NEEDED WITHIN CONSTRUCTION LIMITS 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) FOLLOWING APPROVAL OF ENGINEER. BY SUBMITTING A BID, CONTRACTOR ACKNOWLEDGES THAT THE SITE HAS BEEN INVESTIGATED TO DETERMINE TYPE, SIZE AND QUANTITY OF CLEARING REQUIRED FOR CONSTRUCTION.
- ALL PAVEMENT OR CONCRETE TO BE REMOVED SHALL BE SAW CUT TO PROVIDE A STRAIGHT AND UNIFORM JOINT WITH NEW CONSTRUCTION. ANY EXISTING PAVEMENT, SIDEWALK, CURB & GUTTER, ETC. THAT MUST BE REMOVED TO ALLOW NEW CONSTRUCTION SHALL BE REMOVED AND REPAIRED PER THE SPECIFICATIONS AND DETAILS OR TO MATCH EXISTING CONDITIONS (WHETHER OR NOT SHOWN ON THE DRAWINGS) TO BE REMOVED). UTILITY INSTALLATIONS MAY UTILIZE OPEN CUT OF PAVEMENTS UNLESS INDICATED OTHERWISE. TRENCH IN EXISTING ASPHALT SHALL PATCHED PER PAVEMENT REPAIR DETAIL.
- PROTECT ALL ADJACENT PROPERTIES. THE GENERAL PUBLIC AND ALL OF THE OWNER'S FACILITIES. SHOULD DAMAGES OCCUR, NOTIFY ENGINEER IMMEDIATELY.
- THE CONTRACTOR SHALL EMPLOY A QUALIFIED UTILITY LOCATOR SERVICE TO LOCATE ALL UNDERGROUND UTILITIES (INCLUDING BUT NOT LIMITED TO ELECTRICAL, TELEPHONE, GAS, CABLE, FIBER OPTIC) WITHIN THE LIMITS OF CONSTRUCTION.
- VERIFY ALL ILLUSTRATED KNOWN UNDERGROUND ELEMENTS. EXERCISE REASONABLE EFFORTS TO PROTECT ANY UNKNOWN UNDERGROUND ELEMENTS. NOTIFY THE ENGINEER IMMEDIATELY IF UNKNOWN ELEMENTS ARE DISCOVERED THAT WOULD NECESSITATE MODIFICATION TO THE PROPOSED DESIGN.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND OSHA REGULATIONS.
- EXISTING MANHOLES, VALVE BOXES, VAULTS, CLEANOUTS, UTILITY POLES ETC. TO REMAIN WITHIN THE GRADING LIMITS SHALL BE ADJUSTED AS NEEDED TO FUNCTION PROPERLY WITH THE PROPOSED FINISHED GRADES (WHETHER OR NOT INDICATED TO BE MODIFIED).
- 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 PROJECT SITE IS NOT LOCATED IN ANY SPECIAL FLOOD HAZARD AREAS, AS SHOWN ON FIRM MAP NUMBER 371088900K DATED 11/17/2017.

KEYNOTES - ITEMS TO REMOVE

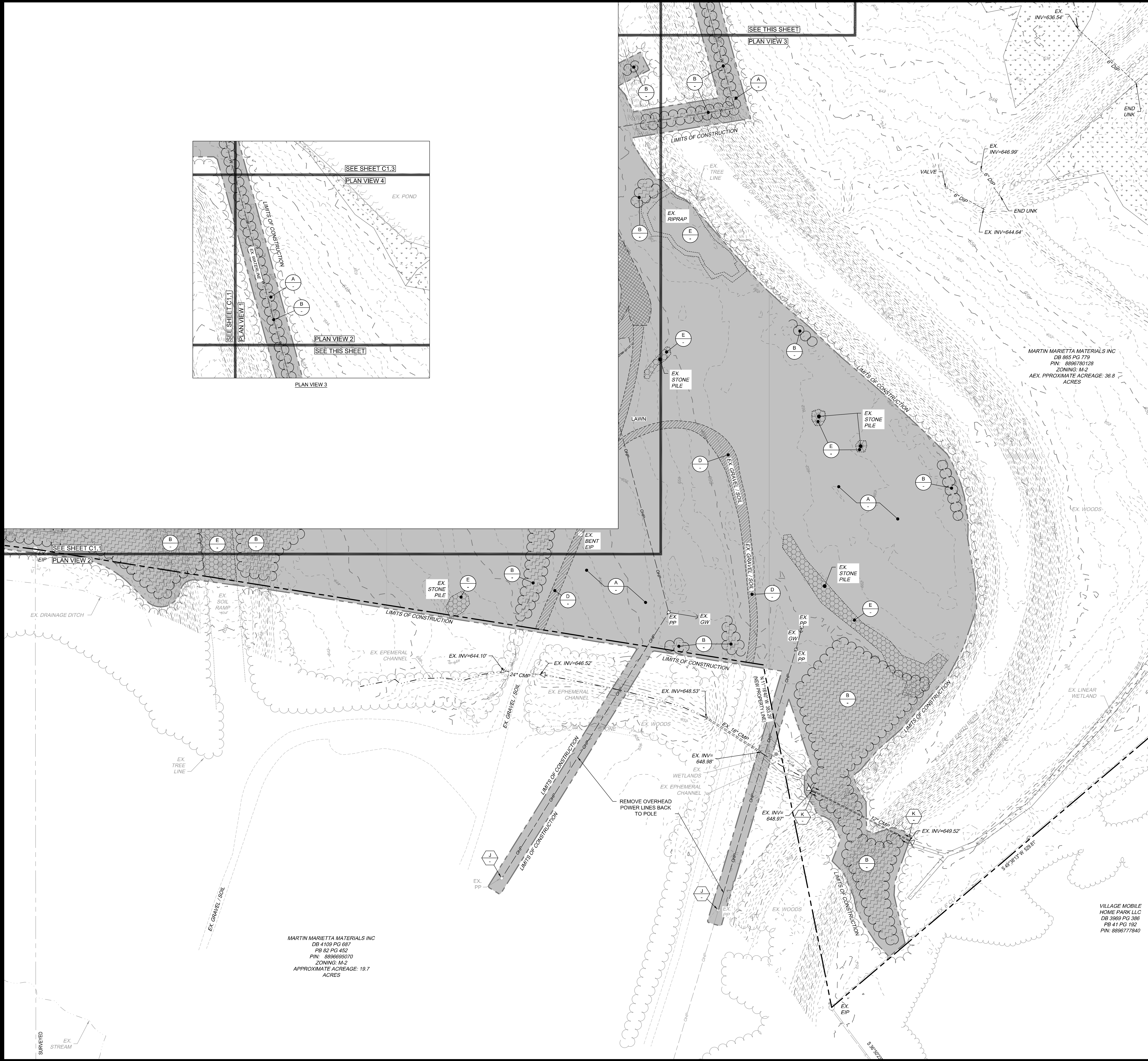
(A)	REMOVE ALL WITHIN SHADED AREA UNLESS OTHERWISE NOTED ON THIS DRAWING.	(J)	POWER POLE TO REMAIN
(B)	TREE CLEARING	(K)	CULVERT TO REMAIN
(C)	REMOVE ASPHALT AND STONE BASE	(L)	CAREFULLY REMOVE GATE AND PROVIDE TO OWNER
(D)	REMOVE GRAVEL PAVEMENT		
(E)	REMOVE EXISTING RIP RAP, STONE, AND CONSTRUCTION DEBRIS PILES		
(F)	REMOVE FENCE		
(G)	REMOVE METAL RISER		
(H)	REMOVE STORM PIPE		
(I)	REMOVE HEAD WALL		

KEYNOTES - ITEMS TO REMAIN

(J)	POWER POLE TO REMAIN
(K)	CULVERT TO REMAIN
(L)	CAREFULLY REMOVE GATE AND PROVIDE TO OWNER

EXISTING CONDITIONS LEGEND

EX. CONSTRUCTION LIMITS	---
EX. STORM PIPE	---
EX. FENCE	X
EX. GAS LINE	G
EX. POWER LINE	UGP
EX. TELEPHONE LINE	UGT
EX. WATER LINE	W
EX. SANITARY SEWER FORCE MAIN	FM
EX. SANITARY SEWER LINE	SAN
EX. CABLE TV LINE	UCATV
EX. FIBER OPTIC LINE	UFG
EX. TREE LINE	---
LIGHT POLE	☆
SITE BOLLARD	○
UTILITY POLE	○
SANITARY SEWER MANHOLE	○
STORM SEWER MANHOLE	○
CLEANOUT (SANITARY OR STORM)	○
DROP INLET	○
FIRE HYDRANT	○
WATER VALVE	○
TELECOM BOX	○
GROUND MOUNTED SIGN	○



DEMOLITION NOTES

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KEYNOTES - ITEMS TO REMOVE

(A)	REMOVE ALL WITHIN SHADED AREA UNLESS OTHERWISE NOTED ON THIS DRAWING.	
(B)	TREE CLEARING	
(C)	REMOVE ASPHALT AND STONE BASE	
(D)	REMOVE GRAVEL PAVEMENT	
(E)	REMOVE EXISTING RIP RAP, STONE, AND CONSTRUCTION DEBRIS PILES	
(F)	REMOVE FENCE	
(G)	REMOVE METAL RISER	
(H)	REMOVE STORM PIPE	
(I)	REMOVE HEAD WALL	

KEYNOTES - ITEMS TO REMAIN

(J)	POWER POLE TO REMAIN	
(K)	CULVERT TO REMAIN	
(L)	CAREFULLY REMOVE GATE AND PROVIDE TO OWNER	

EXISTING CONDITIONS LEGEND

---	EX. CONSTRUCTION LIMITS
---	EX. STORM PIPE
---	EX. FENCE
---	EX. GAS LINE
---	EX. POWER LINE
---	EX. TELEPHONE LINE
---	EX. WATER LINE
---	EX. SANITARY SEWER FORCE MAIN
---	EX. SANITARY SEWER LINE
---	EX. CABLE TV LINE
---	EX. FIBER OPTIC LINE
---	EX. TREE LINE
---	LIGHT POLE
---	SITE BOLLARD
---	UTILITY POLE
---	SANITARY SEWER MANHOLE
---	STORM SEWER MANHOLE
---	CLEANOUT (SANITARY OR STORM)
---	DROP INLET
---	FIRE HYDRANT
---	WATER VALVE
---	TELECOM BOX
---	GROUND MOUNTED SIGN

MARTIN MARIETTA MATERIALS INC
DB 4108 PG 587
PB 82 PG 452
PIN: 889665070
ZONING: M-2
APPROXIMATE ACREAGE: 19.7 ACRES

VILLAGE MOBILE HOME PARK LLC
DB 3969 PG 386
PB 41 PG 192
PIN: 8896777840

MOSELEYARCHITECTS

PROFESSIONAL SEAL
055780
11-14-22
BRETT W. FRANK
ENGINEER

TIMMONS GROUP
YOUR VISION ACHIEVED THROUGH OURS.
VIRGINIA NORTH CAROLINA
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RALEIGH OFFICE
5410 Trinity Road, Suite 102
Raleigh, NC 27607
TEL 919.866.4911
FAX 919.859.5663
www.timmons.com
North Carolina License No. C-1652
Site Development/Residential/Infrastructure Technology
2020-2021

PUBLIC SAFETY TRAINING CENTER

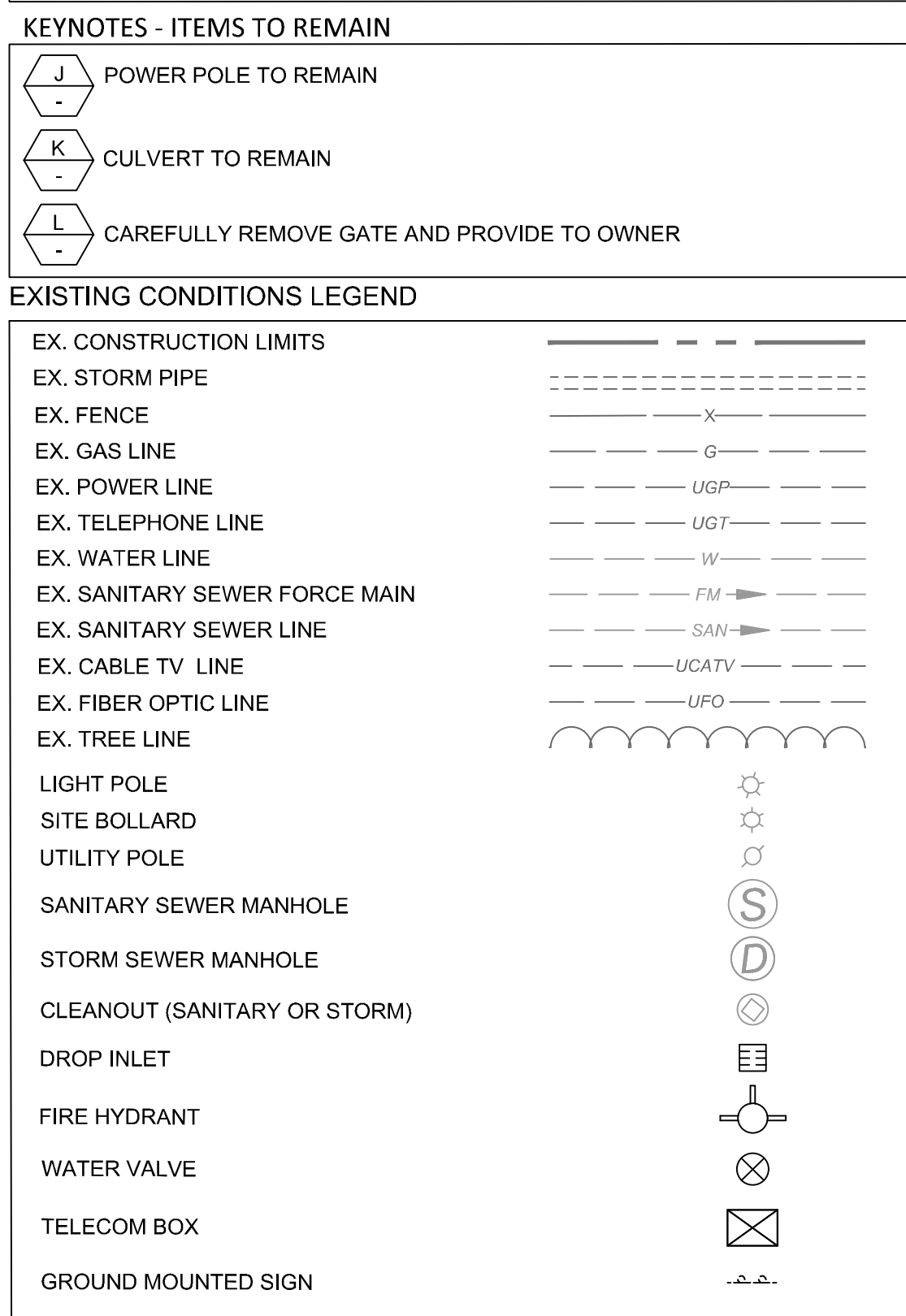
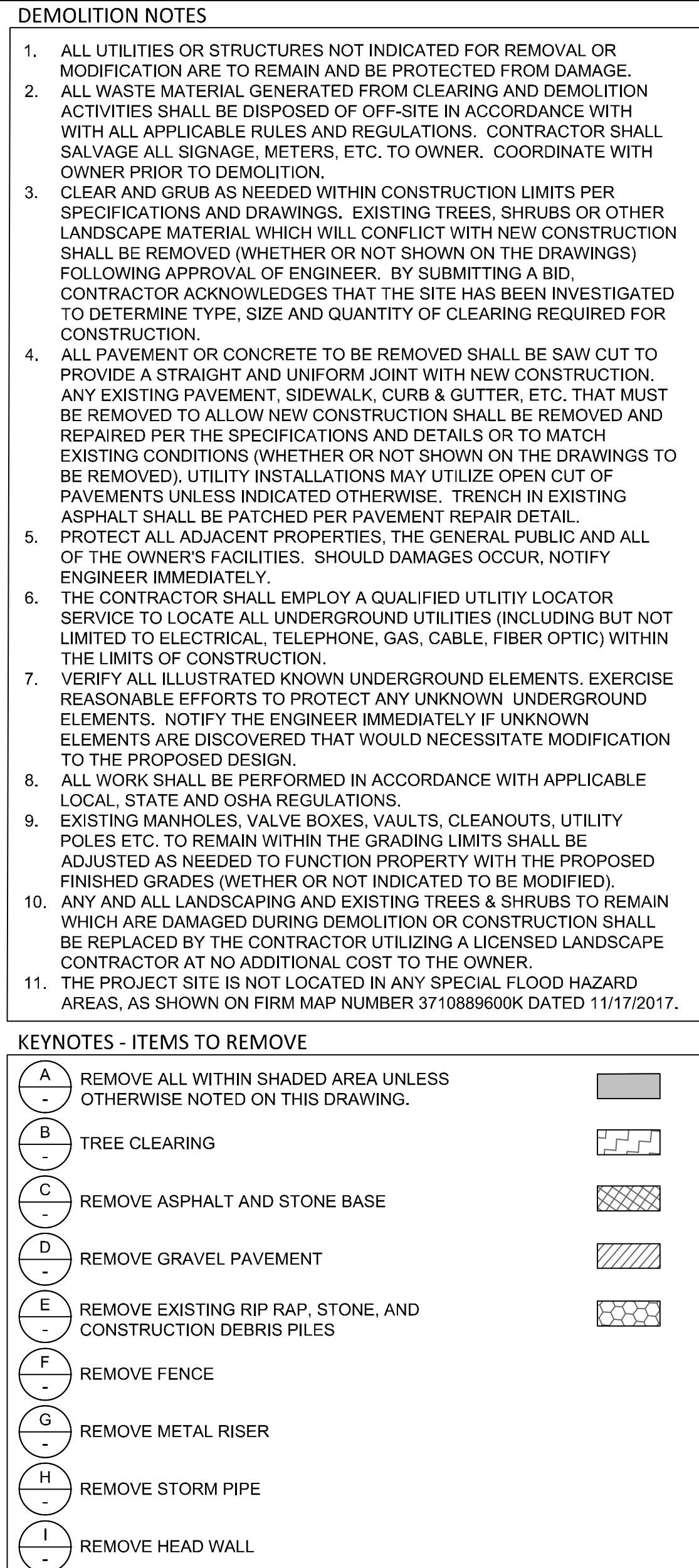
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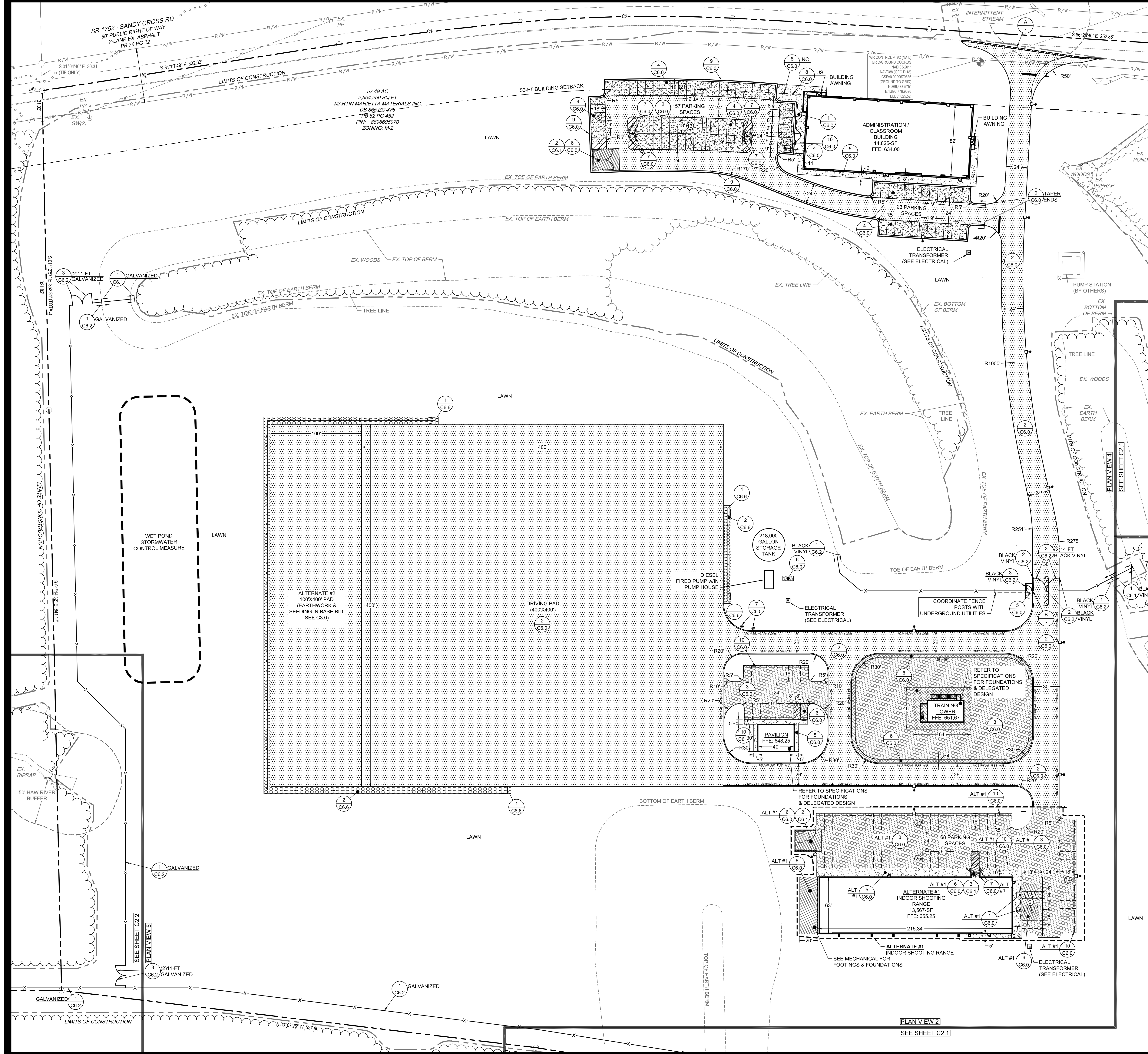
ALAMANCE COMMUNITY COLLEGE

2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 800648
DATE: August 14, 2023
REVISIONS
DATE DESCRIPTION

EXISTING CONDITIONS & DEMOLITION PLAN
C1.2





- SITE LAYOUT NOTES**
- ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ALAMANCE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
 - ALL RADII ARE DIMENSIONED FROM BACK OF CURB, IF NOT STATED, RADII DIMENSION IS 5'.
 - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
 - CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
 - AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
 - ALL CURB AND GUTTER OFFSITE SHALL BE 24" WIDE UNLESS NOTED OTHERWISE.
 - ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS.
 - RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
 - COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
 - PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
 - ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1.20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1.50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.

- KEYNOTES**
- 1 ACCESSIBLE CURB RAMPS
 - 2 HEAVY DUTY ASPHALT PAVEMENT
 - 3 GRAVEL PAVEMENT
 - 4 LIGHT DUTY ASPHALT PAVEMENT (PARKING SPACES ONLY)
 - 5 STANDARD DUTY CONCRETE
 - 6 HEAVY DUTY CONCRETE PAVEMENT
 - 7 6" STEEL BOLLARD WITH HDPE SLEEVE
 - 8 FLAG POLE
 - 9 24" CONCRETE CURB & GUTTER
 - 10 PRECAST CONCRETE WHEEL STOP
 - 1 8-FT TALL CHAIN LINK FENCE TO BERM (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED)
 - 2 CHAINLINK DUMPSTER ENCLOSURE WITH GUARDRAIL
 - 3 DRIVEWAY APRON
 - 4 8-FT CHAINLINK FENCE (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED)
 - 5 FENCE GATE DROP ROD ASSEMBLY
 - 6 CHAINLINK FENCE GATE (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED)
 - 7 NCDOT METAL GUARDRAIL
 - 8 CLASS 'A' RIP RAP WEED AND SEDIMENT BARRIER
 - 9 MILL AND OVERLAY (18-IN ASPHALT MILL & LAP JOINT)
 - 10 KNOX BOX 3200 SERIES OR APPROVED EQUAL, MOUNTED ON FENCE POST AT 8-FT HEIGHT WITH 2-1/4" U-BOLTS, WASHERS AND TAMPER RESISTANT NUTS.

SITE DATA TABLE

PROJECT NAME:	ALAMANCE COMMUNITY COLLEGE PUBLIC SAFETY TRAINING CENTER
SCO NUMBER:	19-21198-01
PROPERTY OWNER/ DEVELOPER:	ALAMANCE COMMUNITY COLLEGE 1247 JIMMIE KERR RD. GRAHAM, NC 27253
PIN ID:	8896780128
PIN:	154911
DEED ACRES:	40.8
PROPERTY ZONING:	M-2
CURRENT USE:	GENERAL MANUFACTURING
PROPOSED USE:	EDUCATION FACILITY
DISTURBED AREA:	33.73 ACRES
RIVER BASIN:	BOYDS CREEK (CAPE FEAR)
SURFACE WATER CLASSIFICATION:	WS-V-NSW
PARKING REQUIREMENTS:	ADMIN / CLASSROOM BUILDING: 1 SPACE / 4 FIXED SEATS FOR PATRON USE: 165 SEATS / 4 = 42 SPACES 1 SPACE / 100-SF OF ASSEMBLY: 3,090-SF ASSEMBLY / 100-SF = 31 SPACES 1 SPACE / EMPLOYEE: 8 EMPLOYEES = 8 SPACES TOTAL REQUIRED: 81 SPACES TOTAL PROVIDED: 81 SPACES INDOOR FIRING RANGE: TOTAL REQUIRED: TBD TOTAL PROVIDED: 68 SPACES

MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

NORTH CAROLINA PROFESSIONAL SEAL
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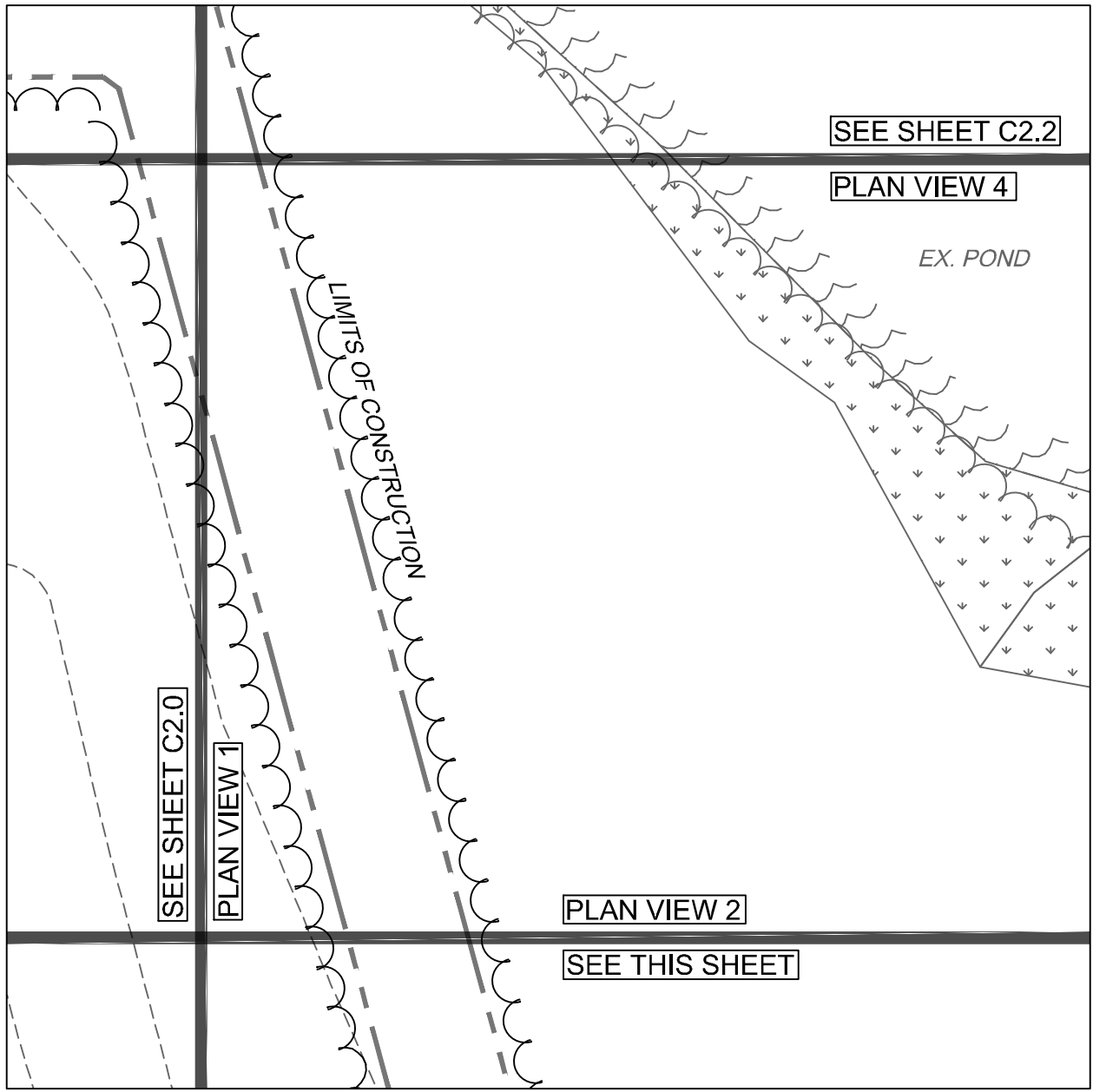
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

SITE PLAN

PROJECT NO: 800648
DATE: August 14, 2023

REVISIONS	
DATE	DESCRIPTION

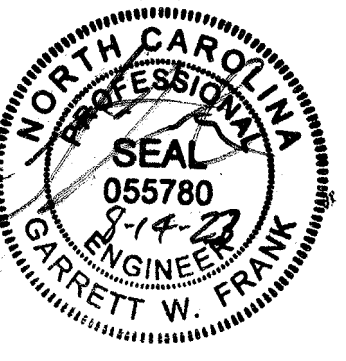
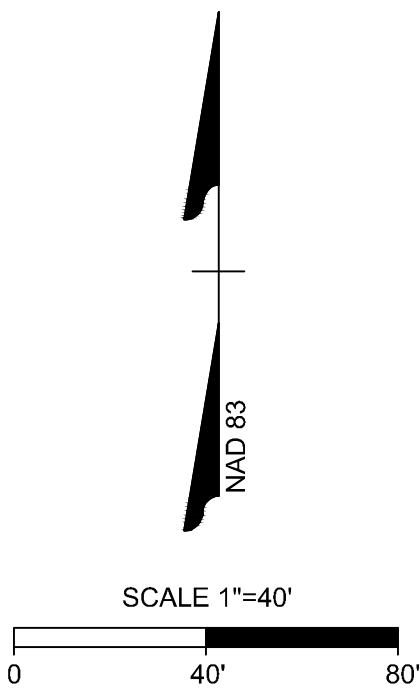
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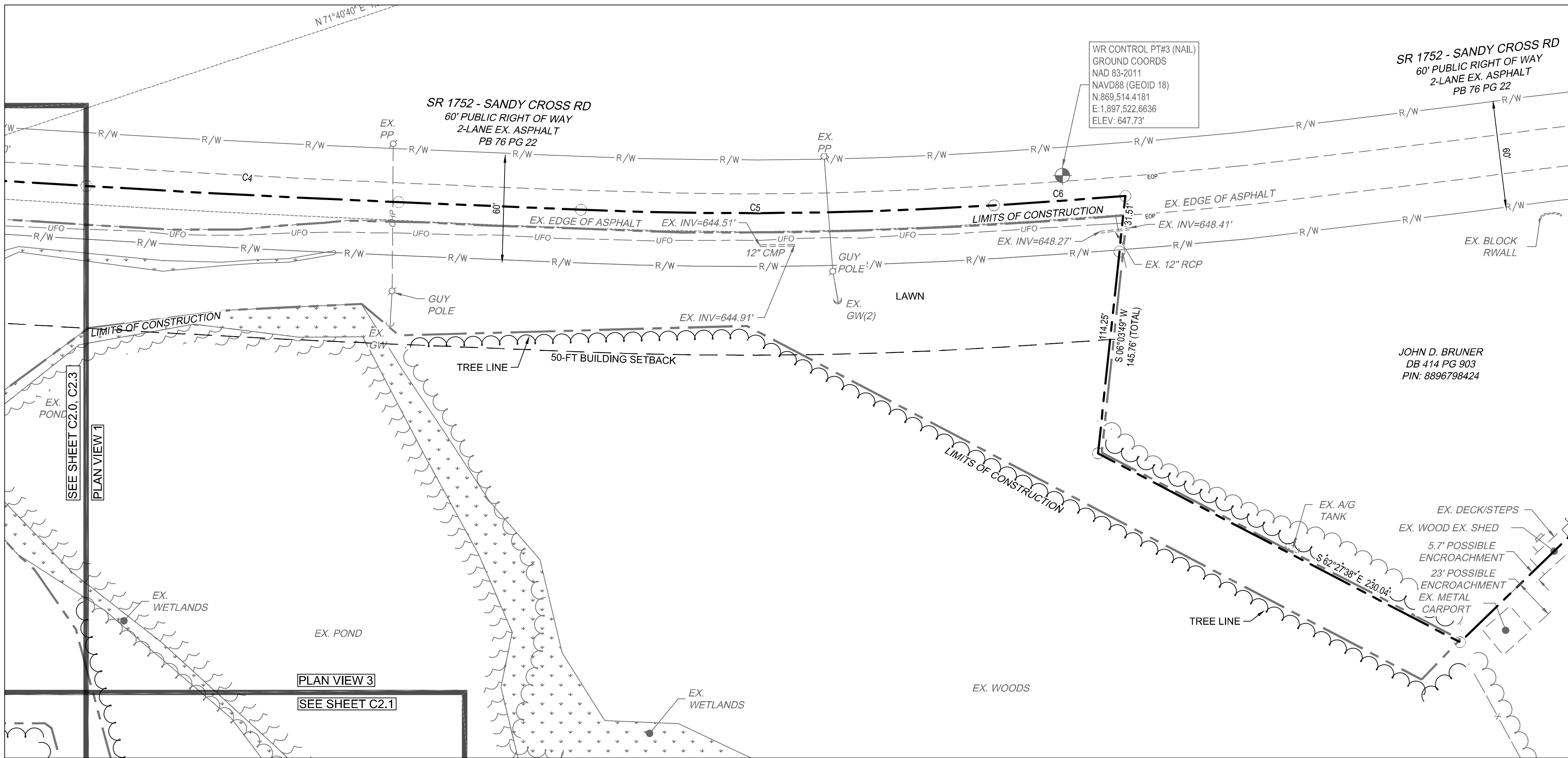
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 11. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
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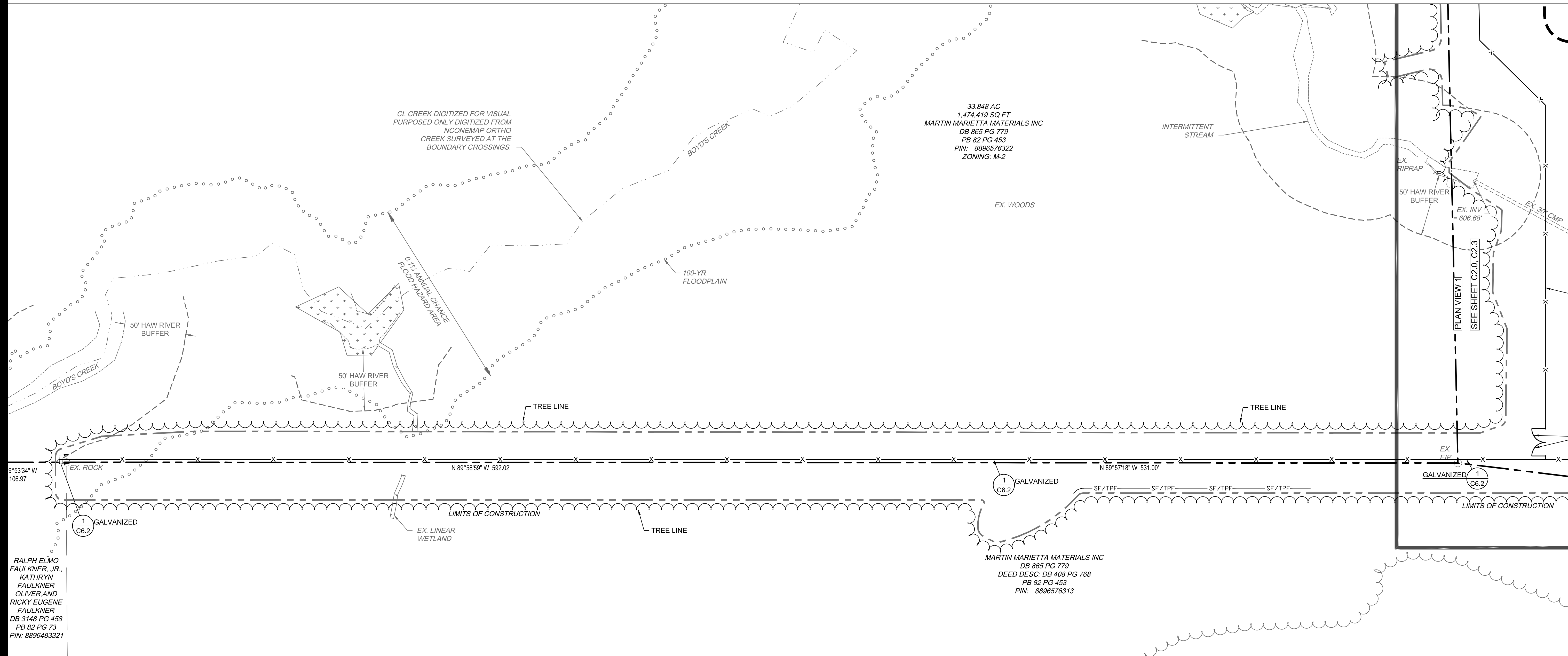
SITE DATA TABLE	
PROJECT NAME:	ALAMANCE COMMUNITY COLLEGE PUBLIC SAFETY TRAINING CENTER
SCO NUMBER	19-21198-01
PROPERTY OWNER/ DEVELOPER:	ALAMANCE COMMUNITY COLLEGE 1247 JIMMIE KERR RD. GRAHAM, NC 27253
PIN ID:	8896780128
PIN:	154911
DEED ACRES:	40.8
PROPERTY ZONING:	M-2
CURRENT USE:	GENERAL MANUFACTURING
PROPOSED USE:	EDUCATION FACILITY
DISTURBED AREA:	24.71 ACRES
RIVER BASIN:	BOYDS CREEK (CAPE FEAR)
SURFACE WATER CLASSIFICATION:	WS-V-NSW
PARKING REQUIREMENTS:	ADMIN / CLASSROOM BUILDING: 1 SPACE / 4 FIXED SEATS FOR PATRON USE: 165 SEATS / 4 = 42 SPACES 1 SPACE / 100-SF OF ASSEMBLY: 3,090-SF ASSEMBLY / 100-SF = 31 SPACES 1 SPACE / EMPLOYEE: 8 EMPLOYEES = 8 SPACES TOTAL REQUIRED: 81 SPACES TOTAL PROVIDED: 81 SPACES INDOOR FIRING RANGE: TOTAL REQUIRED: TBD TOTAL PROVIDED: 69 SPACES



PROJECT NO:	800648
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION



PLAN VIEW 4



PLAN VIEW 5

SITE LAYOUT NOTES

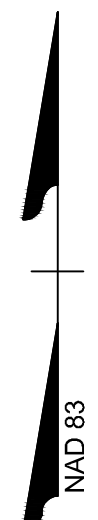
1. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ALAMANCE COUNTY, NCDOT AND OSHA STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT, BUILDING WALL FACE OR PROPERTY LINE, UNLESS OTHERWISE NOTED.
3. ALL RADII ARE DIMENSIONED FROM BACK OF CURB. IF NOT STATED, RADII DIMENSION IS 5'.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, UTILITIES AND GRADES PRIOR TO CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING ANY RELATED CONSTRUCTION.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OFF-SITE DISPOSAL OF ALL WASTE MATERIALS GENERATED DURING CONSTRUCTION AND FOR OBTAINING ALL APPLICABLE PERMITS FOR OFF-SITE STOCKPILES AND/OR WASTE AREAS.
6. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES DURING CONSTRUCTION AND SHALL MAKE REPAIRS AT NO EXPENSE TO THE OWNER.
7. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION THE CONTRACTOR SHALL NOTIFY "NORTH CAROLINA ONE CALL" (811) OR (1-800-632-4949) TO HAVE EXISTING UTILITIES LOCATED. ALL PRIVATE UTILITIES SHALL BE LOCATED AS NEEDED BY A PRIVATE UTILITY LOCATE COMPANY EMPLOYED BY THE CONTRACTOR.
8. ALL CURB AND GUTTER OFFSETS SHALL BE 24" WIDE UNLESS NOTED OTHERWISE.
9. ALL DISTURBED CURB & GUTTER AND ASPHALT SHALL BE REPLACED PER PROJECT DETAILS AND NCDOT STANDARDS AND SPECIFICATIONS.
10. RAISE ALL STRUCTURES AT NO ADDITIONAL COST TO THE OWNER SO THAT THE TOP OF THE STRUCTURE EQUALS THE FINISH GRADE OF THE NEW ASPHALT.
11. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
12. PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
13. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.

KEYNOTES

- | | | |
|------------|--|--|
| 1
C6.0 | ACCESSIBLE CURB RAMPS | |
| 2
C6.0 | HEAVY DUTY ASPHALT PAVEMENT | |
| 3
C6.0 | GRAVEL PAVEMENT | |
| 4
C6.0 | LIGHT DUTY ASPHALT PAVEMENT (PARKING SPACES ONLY) | |
| 5
C6.0 | STANDARD DUTY CONCRETE | |
| 6
C6.0 | HEAVY DUTY CONCRETE PAVEMENT | |
| 7
C6.0 | 6" STEEL BOLLARD WITH HDPE SLEEVE | |
| 8
C6.0 | FLAG POLE | |
| 9
C6.0 | 24" CONCRETE CURB & GUTTER | |
| 10
C6.0 | PRECAST CONCRETE WHEEL STOP | |
| 1
C6.1 | 8-FT TALL CHAIN LINK FENCE TO BERM (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED) | |
| 2
C6.1 | CHAINLINK DUMPSTER ENCLOSURE WITH GUARDRAIL | |
| 3
C6.1 | DRIVEWAY APRON | |
| 1
C6.2 | 8-FT CHAINLINK FENCE (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED) | |
| 2
C6.2 | FENCE GATE DROP ROD ASSEMBLY | |
| 3
C6.2 | CHAINLINK FENCE GATE (SEE PLAN FOR GALVANIZED VERSUS BLACK PVC COATED) | |
| 1
C6.6 | NCDOT METAL GUARDRAIL | |
| 2
C6.6 | CLASS 'A' RIP RAP WEED AND SEDIMENT BARRIER | |
| A | MILL AND OVERLAY (18-IN ASPHALT MILL & LAP JOINT | |
| B | KNOX BOX 3200 SERIES OR APPROVED EQUAL, MOUNTED ON FENCE POST AT 6-FT HEIGHT WITH 2-1/4" U-BOLTS, WASHERS AND TAMPER RESISTANT NUTS. | |

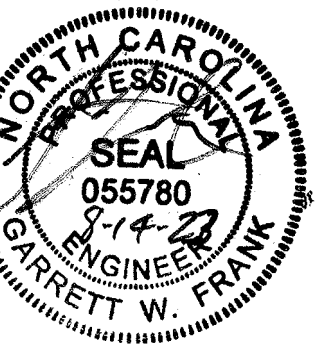
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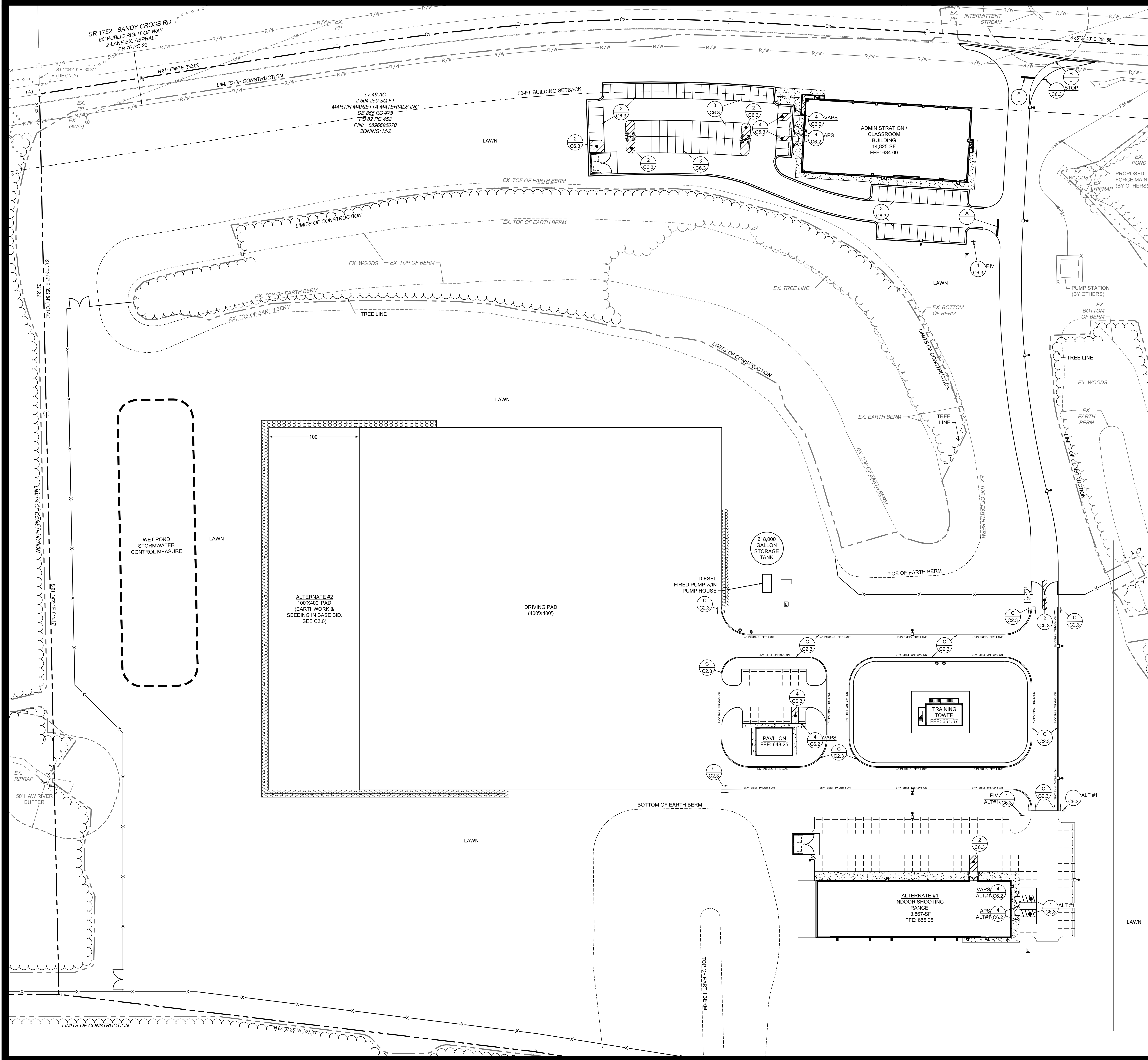


SCALE 1"=40'

0 40' 80'



PROJECT NO:	800648
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION



SITE LAYOUT NOTES

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11. COORDINATE THE PROJECT SCHEDULE WITH THE CIVIL ENGINEER AND OWNER IN ACCORDANCE WITH THE OWNER'S ONGOING ONSITE OPERATIONS. ANY UTILITY INTERRUPTIONS SHALL BE COORDINATED WITH THE OWNER AT LEAST 72 HOURS PRIOR TO THE INTERRUPTION.
12. PROVIDE A SMOOTH TRANSITION BETWEEN NEW ASPHALT AND EXISTING ASPHALT SURFACES.
13. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK. NOTIFY ENGINEER IF THIS CANNOT BE ACHIEVED.

TRAFFIC CONTROL NOTES

1. ALL SITE SIGNAGE SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND NCDOT STANDARDS.
2. ALL PAVEMENT MARKINGS SHALL BE 2 COATS ALKYD RESIN PAINT.
3. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
4. ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
5. SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
6. ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
7. "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
8. "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.

SIGNAGE KEY NOTES

		MUTCD
4 C6.2	ACCESSIBLE PARKING SIGN	R7-8P, R7-8A, R7-8D (PER PLAN & DETAIL)
1 C6.3	STOP SIGN	R1- (PER PLAN & DETAIL)

STRIPING KEY NOTES

		NCDOT STD.	WIDTH	COLOR
2 C6.3	DIAGONAL STRIPING	1205.01	4-IN	WHITE
3 C6.3	PARKING STALL AND TRAFFIC STRIPE	1205.07 (STD)	4-IN	WHITE
4 C6.3	ACCESSIBLE PARKING LAYOUT	-	-	-
A	STOP BAR	-	24-IN	WHITE
B	LANE LINE	-	4-IN	WHITE
C C2.3	LANE LINE	-	4-IN	WHITE

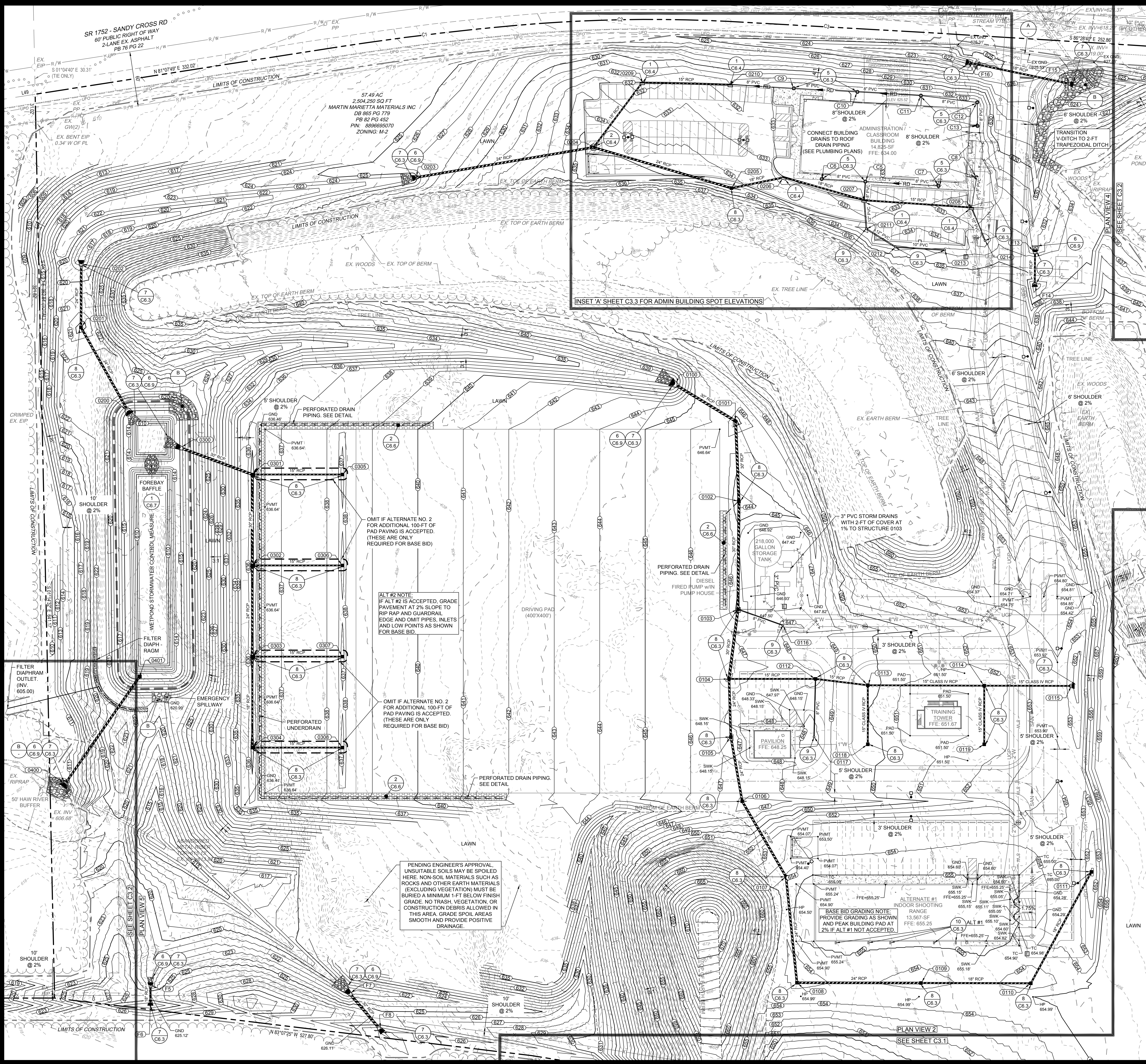
PAINT 4" YELLOW LINE

CURB & GUTTER
NO PARKING FIRE LANE

** NO PARKING - FIRE LANE MARKING SHALL CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 50' INTERVALS.

C FIRE LANE MARKINGS

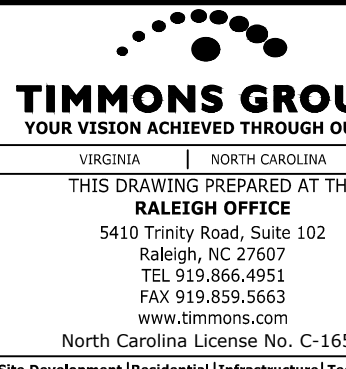
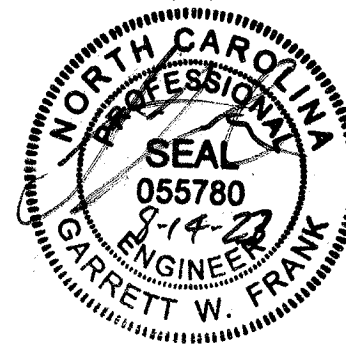
N.T.S.



- GRADING & DRAINAGE NOTES**
1. ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE ALAMANCE COUNTY AND OSHA STANDARDS.
 2. COORDINATE THE PROJECT SCHEDULE WITH THE OWNER, AND ADJACENT USERS OF THE PROPERTY. MAINTAIN TRAFFIC FLOW AND DO NOT INTERRUPT UTILITIES AROUND THE SITE. DO NOT DISTURB OPERATIONS OF ADJACENT SITES AND FACILITIES AND/OR THEIR OWNERS' ONGOING OPERATIONS.
 3. ALL EXISTING VAULTS, MANHOLES, STORM DRAIN STRUCTURES, VALVE BOXES, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NEEDED TO MATCH FINISHED GRADE.
 4. ALL BACKFILL, COMPACTION, SOILS TESTING, ETC. SHALL BE PERFORMED BY THE OWNER'S INDEPENDENT TESTING LABORATORY.
 5. ALL SPOT ELEVATIONS INDICATED ARE AT TOP OF CURB UNLESS NOTED OTHERWISE.
 6. SPOT GRADE ABBREVIATIONS:
 - 6.1 TC: TOP OF CURB
 - 6.2 PVMT: EDGE OF PAVEMENT
 - 6.3 EX GND: MATCH EXISTING
 - 6.4 SWK: SIDEWALK
 - 6.5 FFE: FINISHED FLOOR ELEVATION
 - 6.6 HP: HIGH POINT
 7. SPOT ELEVATIONS ARE GIVEN AT THE MAJORITY OF THE MAJOR BREAK POINTS BUT IT SHOULD NOT BE ASSUMED THAT ALL NECESSARY SPOT ELEVATIONS ARE SHOWN. DUE TO SPACE LIMITATIONS, THERE MAY BE OTHER CRITICAL SPOTS NOT LABELED THAT SHOULD BE TAKEN INTO CONSIDERATION. THE CONTRACTOR SHALL REVIEW THE GRADING PLAN IN DETAIL AND SHALL ENSURE THAT ALL CRITICAL GRADE POINTS ARE STAKED AND FOLLOWED TO PROVIDE POSITIVE DRAINAGE.
 8. ALL ELEVATIONS ARE BASED ON NC GRID NORTH (NAD 83).
 9. THE CONTRACTOR SHALL USE NO ONE CALL (811) TO LOCATE ALL UNDERGROUND UTILITIES. PRIVATE UTILITIES SHALL BE LOCATED BY A PRIVATE LOCATE SERVICE AT THE EXPENSE OF THE CONTRACTOR.
 13. INSTALL ALL STORM SEWERS TO PROVIDE REQUIRED CLEARANCES TO CROSSING UTILITIES AS INDICATED IN THE DRAWINGS AND SPECIFICATIONS.
 14. ALL ROOF DRAINS SHALL BE 6" PVC (SCH 40) @ 1/4% MIN. SLOPE UNLESS INDICATED OTHERWISE. USE DUCTILE IRON WHEN COVER IS LESS THAN 24-IN.
 15. PVC ROOF DRAIN PIPING UNDER PAVEMENT SHALL HAVE 24-IN MINIMUM COVER. IF ROOF DRAIN PIPING UNDER PAVEMENT HAS LESS THAN 24-IN COVER, ROOF DRAIN PIPING SHALL BE 6" DIP (IN LIEU OF PVC).
 16. JOINT FILL AND CAULK EACH CONCRETE EXPANSION JOINT AND WHERE CONCRETE PAVEMENT ABUTS OTHER PAVEMENTS, SIDEWALKS, OR HARD SURFACES.
 8. MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT IN ACCORDANCE WITH NCDEQ LAND QUALITY REQUIREMENTS AND AS DIRECTED BY THE NCDEQ AND CIVIL ENGINEER.
 9. FLUSH ALL SEDIMENT OUT OF STORM DRAINAGE PIPES AND STRUCTURES FOLLOWING SITE STABILIZATION AND AT THE END OF CONSTRUCTION. FLUSH OUT PIPES AS NEEDED THROUGHOUT CONSTRUCTION TO MAINTAIN PROPER FUNCTIONING OF THE DRAINAGE SYSTEM.
 10. IN DISTURBED AREAS, AMEND THE TOP 6 INCHES OF LAWN AREAS WITH TOPSOIL FROM THE SITE.
 11. ALL SIDEWALKS ARE TO HAVE NO MORE THAN A 1:20 (5.0%) SLOPE FOR THE LENGTH OF THE SIDEWALK AND NO MORE THAN A 1:50 (2.0%) SLOPE FOR THE WIDTH OF THE SIDEWALK.
 12. IF CONTRACTOR NOTICES ANY DISCREPANCIES IN ANY OF THESE SLOPE REQUIREMENTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE OWNER'S ENGINEER PRIOR TO POURING ANY CONCRETE.
 13. PRIOR TO FINAL PROJECT ACCEPTANCE, PROVIDE AN AS-BUILT SURVEY OF ALL UTILITY SYSTEMS AND STORM SEWERS.
 14. ANY AND ALL LANDSCAPING AND EXISTING TREES & SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR USING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 15. CONSTRUCTION MANAGER SHALL BE ALLOWED TO MAKE GRADE ADJUSTMENTS IN THE FIELD (IN CONSULTATION WITH THE DESIGN TEAM) AS NECESSARY TO REDUCE THE PROJECT COST TO BALANCE THE SITE CUTOFF QUANTITIES.

KEY NOTES

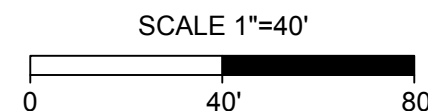
- 5 STANDARD CLEANOUT
- 6 STORM SEWER BEDDING
- 7 CONCRETE FLARED END SECTION
- 8 CONCRETE DROP INLET
- 9 YARD INLET
- 1 CONCRETE CATCH BASIN
- 2 STORM MANHOLE
- 2 CLASS 'A' RIP RAP WEED AND SEDIMENT BARRIER
- 1 WETPOND STORMWATER CONTROL MEASURE
- 6 RIP RAP OUTLET PROTECTION (SEE EROSION CONTROL PLAN)
- 6 PROVIDE SMOOTH PAVING TRANSITION
- 18-IN THICK CLASS 'B' RIP RAP

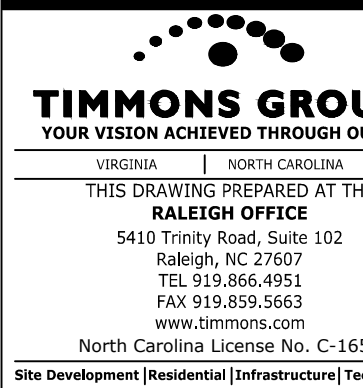


PROJECT NO:	800648
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION

VILLAGE MOBILE
HOME PARK LLC
DB 3969 PG 386
PB 41 PG 192
PIN: 8896777840

5 C6.3	STANDARD CLEANOUT
6 C6.3.7	STORM SEWER BEDDING
7 C6.3.3	CONCRETE FLARED END SECTION
8 C6.3.3	CONCRETE DROP INLET
9 C6.3.3	YARD INLET
1 C6.4	CONCRETE CATCH BASIN
2 C6.4	STORM MANHOLE
2 C6.4	CLASS 'A' RIP RAP WEED AND SEDIMENT BARRIER
1 C6.7	WETPOND STORMWATER CONTROL MEASURE
6 C6.9	RIP RAP OUTLET PROTECTION (SEE EROSION CONTROL PLAN)
A C6.9	PROVIDE SMOOTH PAVING TRANSITION
B	18-IN THICK CLASS 'B' RIP RAP

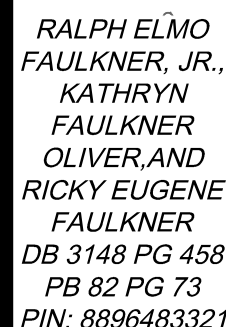
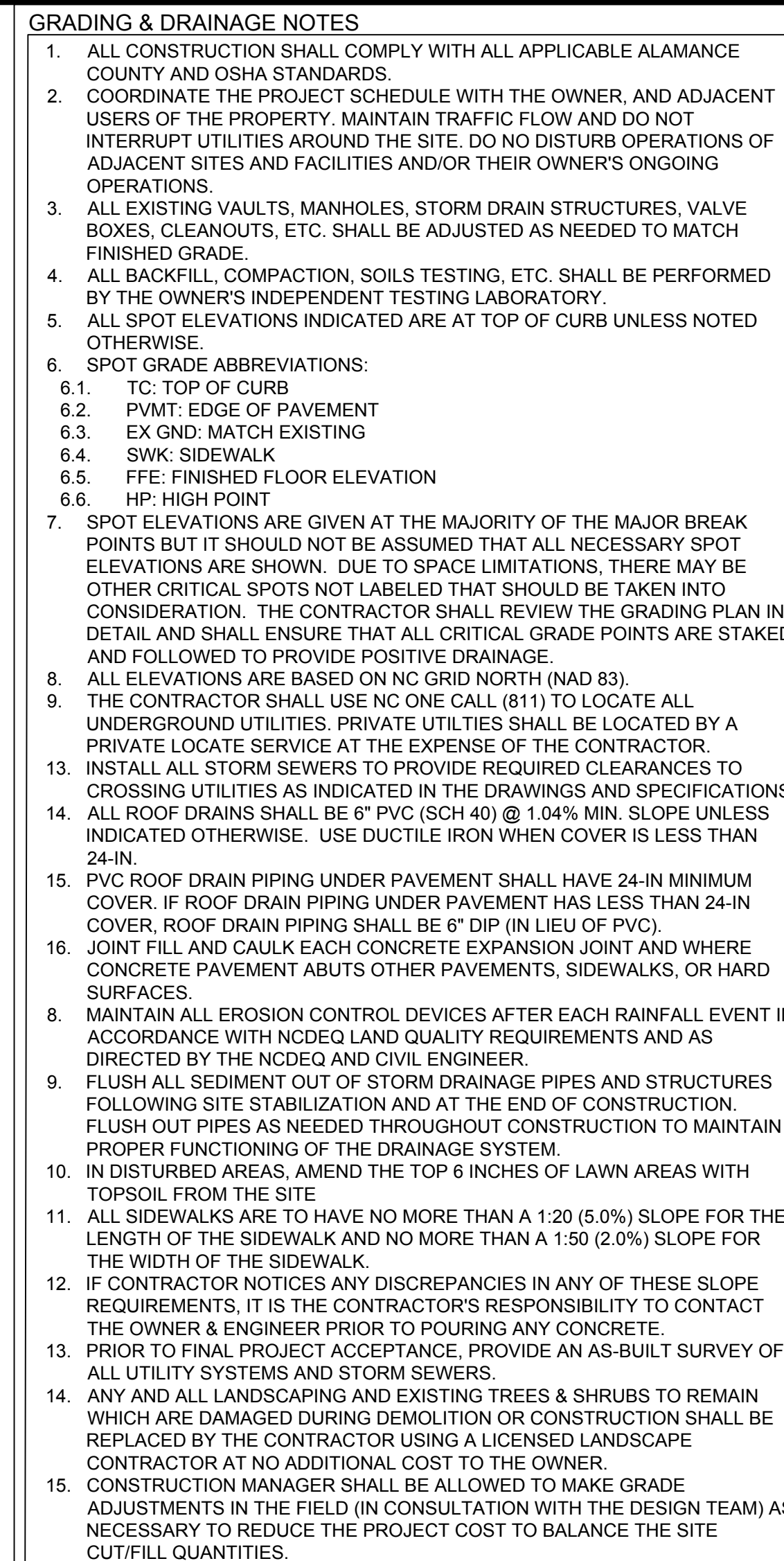




SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

GRADING & DRAINAGE PLAN

C3.2



STORM PIPE TABLE						
PIPE #	DIA	UPSTREAM INVERT	DOWNSTEAM INVERT	SLOPE	LENGTH	DESCRIPTION
C9-0210	8"	628.89	628.23	0.94%	70.02 LF	8" PVC
C10-C9	8"	629.54	628.89	0.94%	70.02 LF	8" PVC
C12-C11	8"	630.78	630.20	0.94%	62.25 LF	8" PVC
C11-C10	8"	630.20	629.54	0.94%	70.00 LF	8" PVC
C13-C12	8"	631.02	630.78	0.94%	25.92 LF	8" PVC
C6-C5	8"	630.40	629.88	1.08%	48.08 LF	8" PVC
C5-0207	8"	629.78	628.89	4.32%	20.52 LF	8" PVC
C7-C5	8"	630.40	628.88	0.84%	80.67 LF	8" PVC
C8-0208	8"	630.96	629.71	3.69%	33.70 LF	8" PVC
0101-0100	30"	637.60	637.00	0.77%	78.48 LF	30" RCP
0102-0101	30"	638.44	637.80	0.73%	88.21 LF	30" RCP
0103-0102	30"	639.51	638.64	0.73%	118.79 LF	30" RCP
0104-0103	30"	640.27	639.71	0.73%	77.13 LF	30" RCP
0105-0104	24"	641.09	640.77	0.50%	63.86 LF	24" RCP
0106-0105	24"	641.65	641.29	0.50%	71.77 LF	24" RCP
0107-0106	24"	642.60	641.85	0.78%	95.97 LF	24" RCP
0108-0107	24"	643.71	642.80	0.78%	117.13 LF	24" RCP
0109-0108	24"	644.98	643.91	0.78%	136.37 LF	24" RCP
0110-0109	18"	646.28	645.48	0.66%	120.79 LF	18" RCP
0111-0110	18"	647.41	646.48	0.66%	139.43 LF	18" RCP
0112-0111	15"	644.36	641.52	2.99%	95.11 LF	15" RCP
0113-0112	15"	646.29	644.56	2.99%	57.92 LF	15" RCP
0114-0113	15"	647.80	646.50	1.02%	127.99 LF	15" CLASS IV RCP
0115-0114	15"	651.58	648.00	3.72%	96.11 LF	15" CLASS IV RCP
0116-0112	8"	643.75	641.33	4.62%	52.36 LF	8" PVC
0117-0112	8"	645.23	644.70	0.84%	63.85 LF	8" PVC
0118-0113	15"	646.81	646.49	0.50%	64.95 LF	15" CLASS IV RCP
0119-0114	15"	648.25	647.90	0.54%	64.48 LF	15" CLASS IV RCP
0201-0200	24"	615.30	614.00	1.23%	105.36 LF	24" RCP
0202-0201	24"	616.50	615.50	1.43%	69.80 LF	24" RCP
0204-0203	24"	625.21	624.00	0.61%	198.30 LF	24" RCP
0205-0204	24"	626.37	625.41	0.61%	158.09 LF	24" RCP
0206-0205	18"	627.26	626.87	0.66%	59.28 LF	18" RCP
0207-0206	18"	628.06	627.46	0.66%	91.53 LF	18" RCP
0208-0207	15"	629.13	628.31	0.69%	118.16 LF	15" RCP
0209-0204	15"	626.67	625.96	0.80%	89.15 LF	15" RCP
0210-0209	15"	627.65	626.87	0.80%	96.84 LF	15" RCP
0211-0207	12"	629.00	628.56	1.38%	31.64 LF	12" PVC
0212-0211	12"	629.72	629.20	1.38%	37.94 LF	12" PVC
0213-0212	10"	630.67	629.92	1.38%	54.00 LF	10" PVC
0214-0208	10"	629.74	629.55	0.50%	39.41 LF	10" PVC
0301-0300	30"	616.00	614.00	2.37%	84.56 LF	30" RCP
0302-0301	30"	626.40	624.90	1.50%	100.00 LF	30" RCP
0303-0302	24"	628.40	626.90	1.50%	100.23 LF	24" RCP
0304-0303	18"	630.40	628.90	1.50%	100.00 LF	18" RCP
0305-0301	15"	632.75	626.15	6.66%	99.17 LF	15" RCP
0306-0302	15"	632.75	627.65	5.14%	99.17 LF	15" RCP
0307-0303	15"	632.75	629.15	3.63%	99.17 LF	15" RCP
0308-0304	15"	633.08	630.65	2.45%	99.17 LF	15" RCP
0401-0400	24"	609.00	607.00	1.43%	140.31 LF	24" RCP

INSET 'A' - ADMIN BUILDING SPOT
ELEVATION PLAN

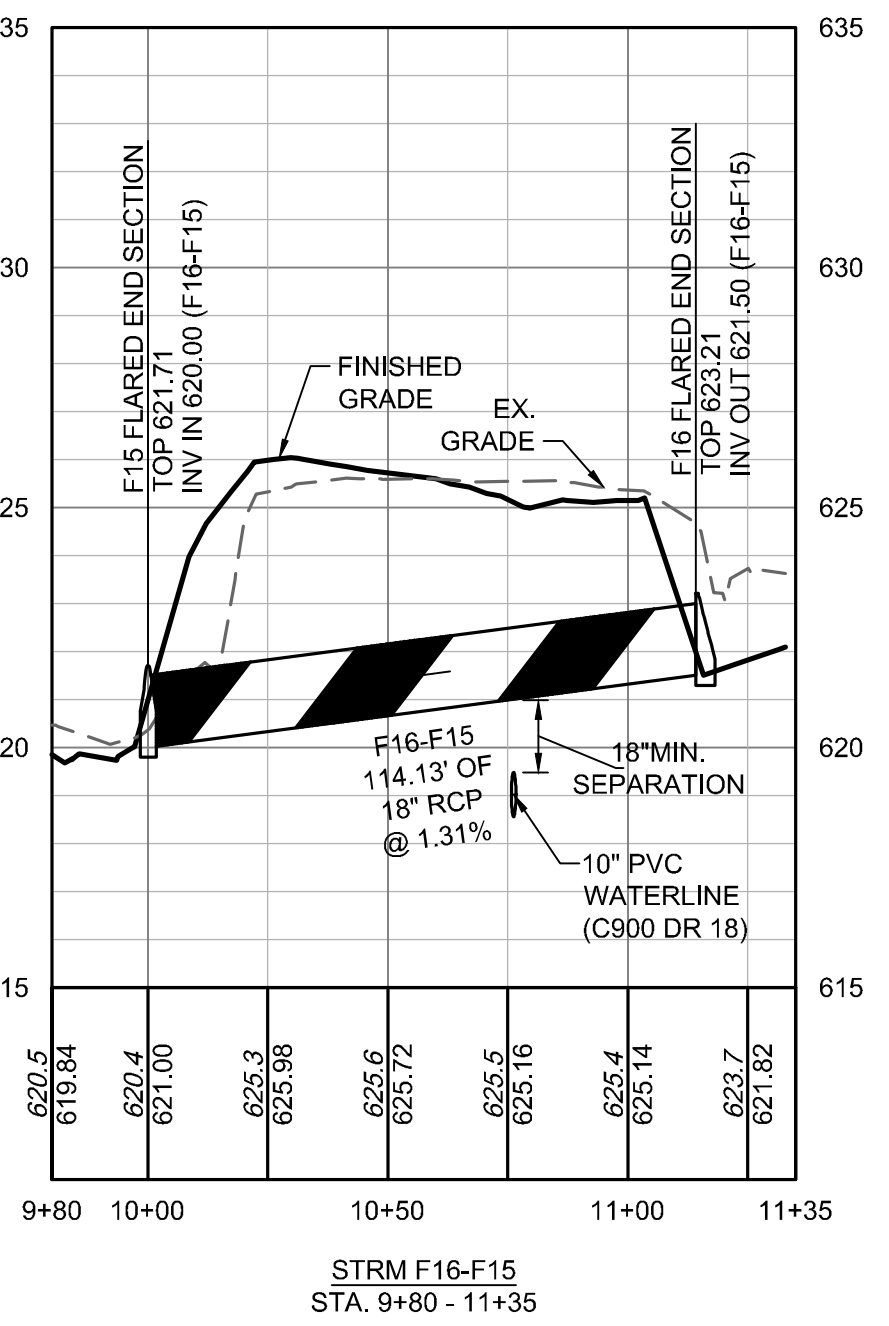
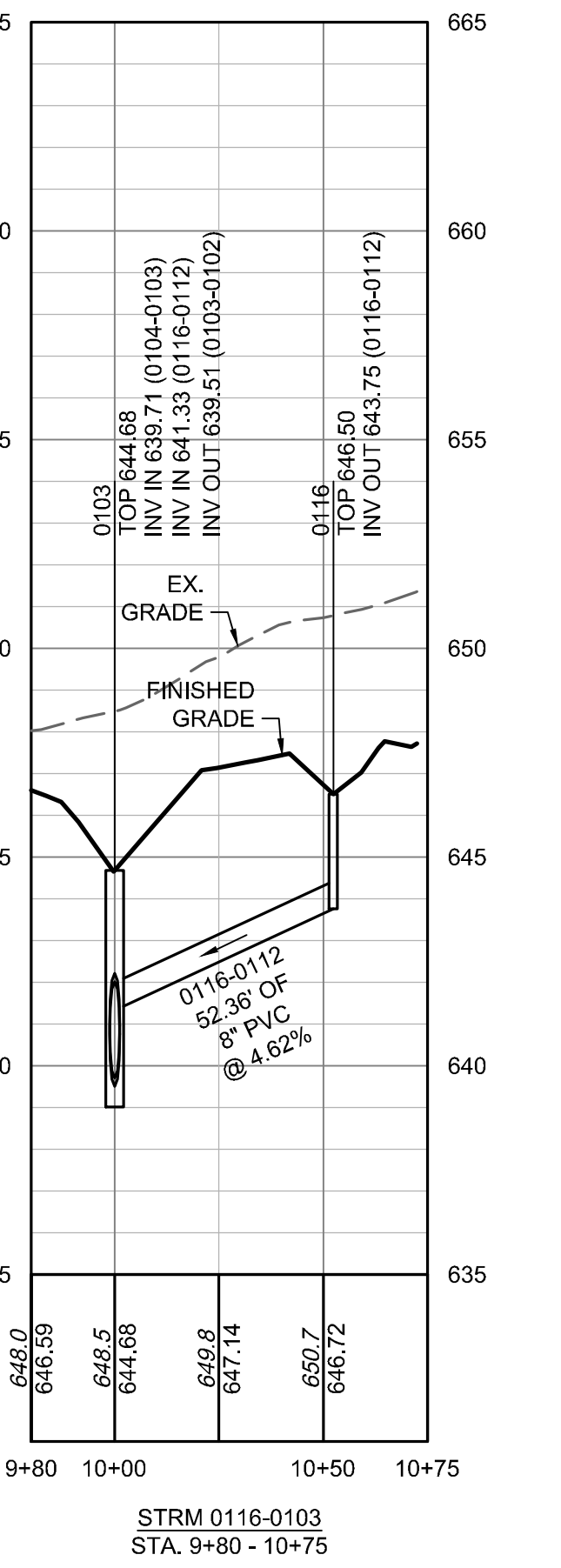


PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

GRADING & DRAINAGE PLAN

C3.3



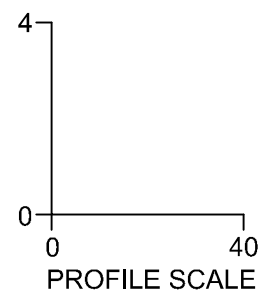
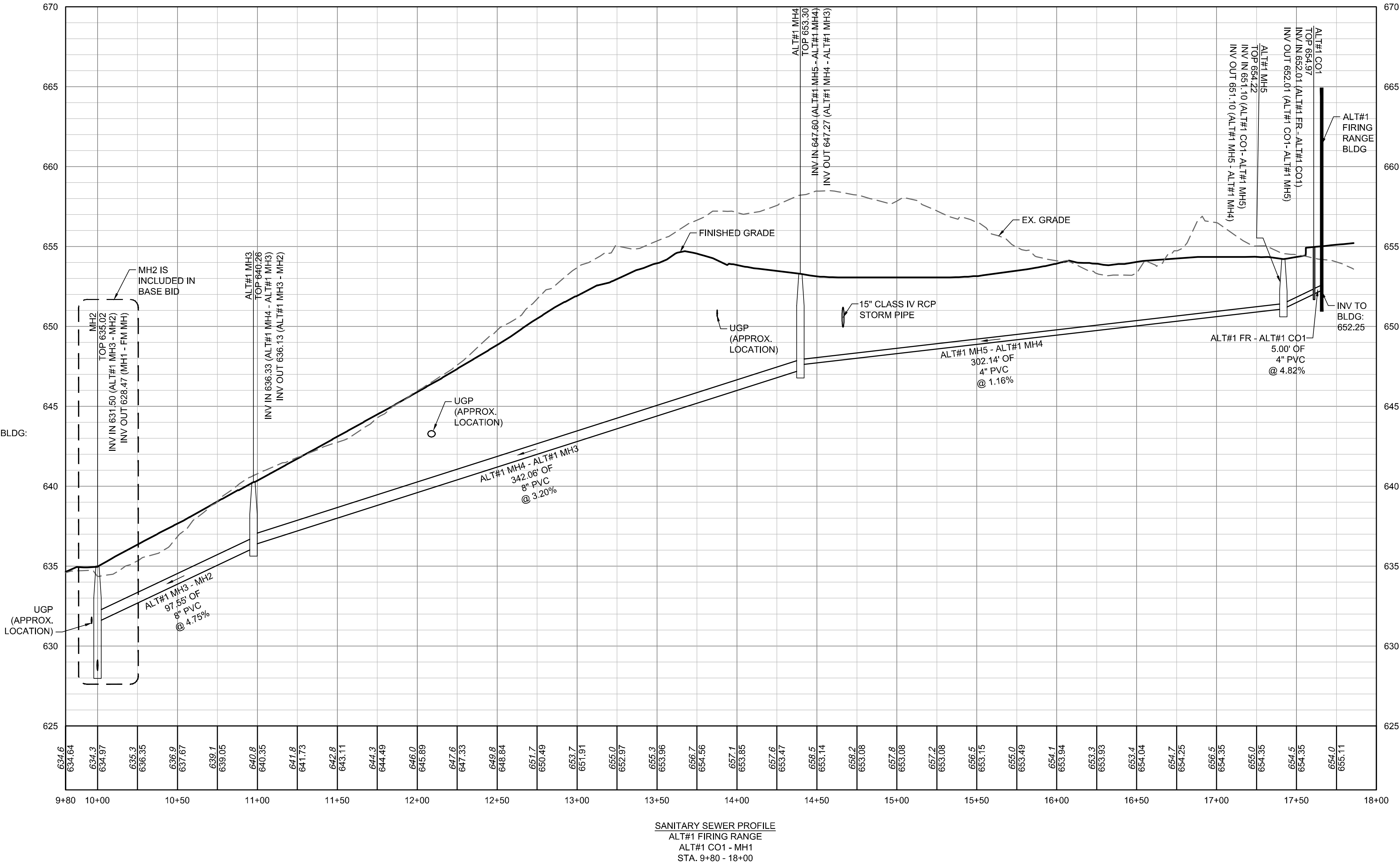
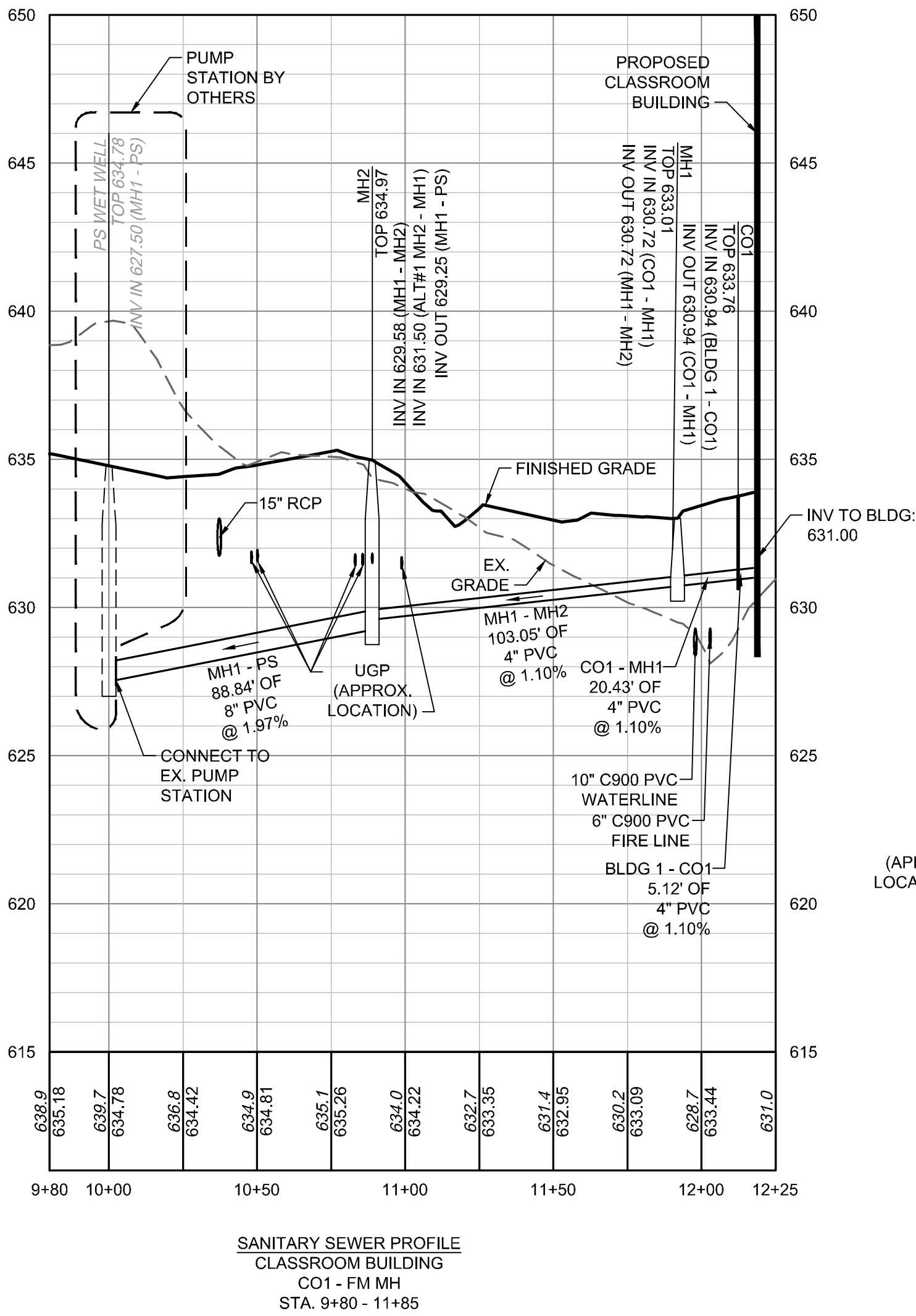
KEYNOTES	
5 C6.3	STANDARD CLEANOUT
3 C6.4	SANITARY SEWER MANHOLE
4 C6.4	UTILITY TRENCHING AND BACKFILL
5 C6.4	VERTICAL BEND
6 C6.4	8" WATER METER
7 C6.4	FIRE HYDRANT ASSEMBLY
8 C6.4	THRUST BLOCK
9 C6.4	YARD HYDRANT
1 C6.5	PIV
2 C6.5	4" RPDA BACKFLOW PREVENTER
3 C6.5	DOMESTIC BACKFLOW PREVENTER (SEE PLANS FOR SIZE)
4 C6.5	AIR RELEASE VALVE
5 C6.5	GATE VALVE
A -	REMOVE CAP AND TIE TO WATER LINE (BY OTHERS)
B -	WALL MOUNTED FIRE DEPARTMENT CONNECTION
C -	LIGHT POLES PROVIDED BY DUKE ENERGY
D -	TRANSFORMER (SEE ELECTRICAL DRAWINGS)
E -	ELECTRICAL (SEE ELECTRICAL DRAWINGS)
F -	BRONZE DOUBLE STRAP SERVICE SADDLE
G -	INDUCTION LOOP FOR GATE OPERATOR (SEE ELECTRICAL PLANS AND INSTALL PER MANUFACTURERS INSTRUCTIONS.)

SANITARY SEWER SCHEDULE	
CO1	TOP = 633.76 INV IN = 630.94 (W) INV OUT = 630.94 (E)
MH1	TOP = 633.01 INV IN = 630.72 (W) INV OUT = 630.72 (S)
MH2	TOP = 635.02 INV IN = 631.50 (S) INV OUT = 628.47 (E)

PIPE TABLE					
PIPE NAME	SIZE	LENGTH	SLOPE	BEARING	
BLDG 1 - CO1	4"	5.12 LF	1.10%	S86° 36' 03"E	
MH1 - MH2	4"	103.05 LF	1.10%	S1° 20' 23"W	
MH1 - PS	8"	88.84 LF	1.97%	S87° 07' 09"E	
CO1 - MH1	4"	20.43 LF	1.10%	S86° 36' 03"E	

SANITARY SEWER SCHEDULE	
ALT#1 CO1	TOP = 654.97 INV IN = 652.01 (W) INV OUT = 652.01 (E)
ALT#1 MH3	TOP = 640.26 INV IN = 636.33 (S) INV OUT = 636.13 (N)
ALT#1 MH4	TOP = 653.30 INV IN = 647.60 (S) INV OUT = 647.27 (N)
ALT#1 MH5	TOP = 654.22 INV IN = 651.10 (W) INV OUT = 651.10 (N)

PIPE TABLE					
PIPE NAME	SIZE	LENGTH	SLOPE	BEARING	
ALT#1 FR - ALT#1 CO1	4"	5.00 LF	4.82%	N89° 59' 39"E	
ALT#1 MH5 - ALT#1 MH4	4"	302.14 LF	1.16%	N0° 00' 00"E	
ALT#1 MH4 - ALT#1 MH3	8"	342.06 LF	3.20%	N9° 08' 45"W	
ALT#1 MH3 - MH2	8"	97.55 LF	4.75%	N3° 33' 46"E	
ALT#1 CO1 - ALT#1 MH5	4"	18.98 LF	4.82%	N89° 59' 39"E	



PROJECT NO:	800648
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION

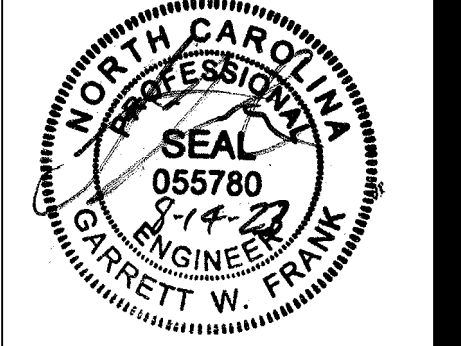
SANITARY
SEWER
PROFILES

C4.1

PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

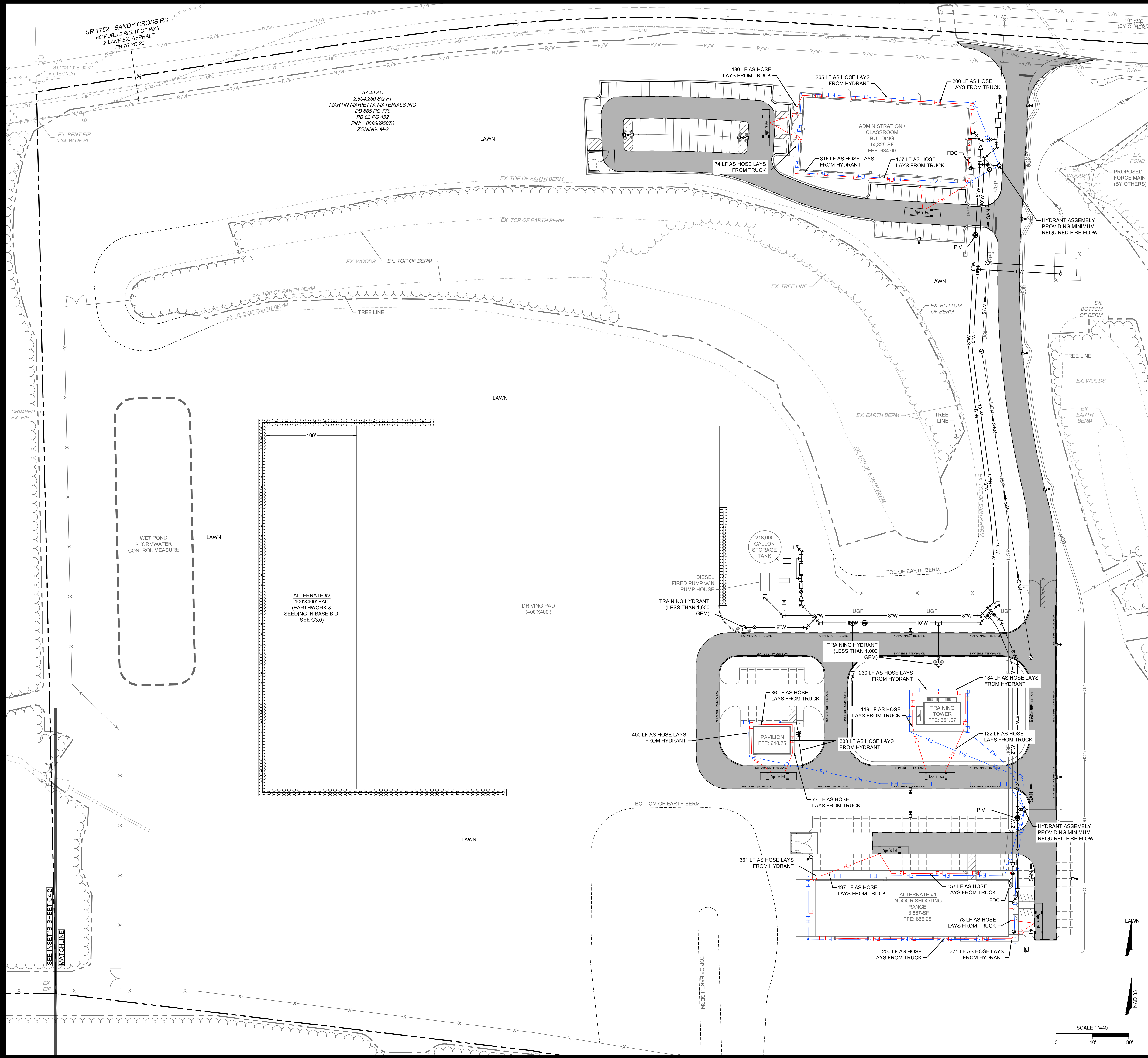
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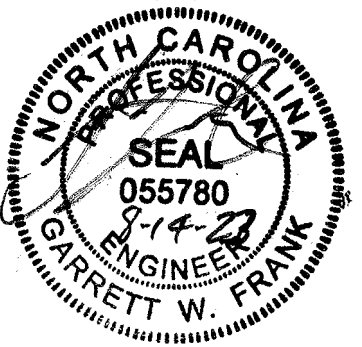
MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 940-0091
MOSELEYARCHITECTS.COM

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MOSELEYARCHITECTS



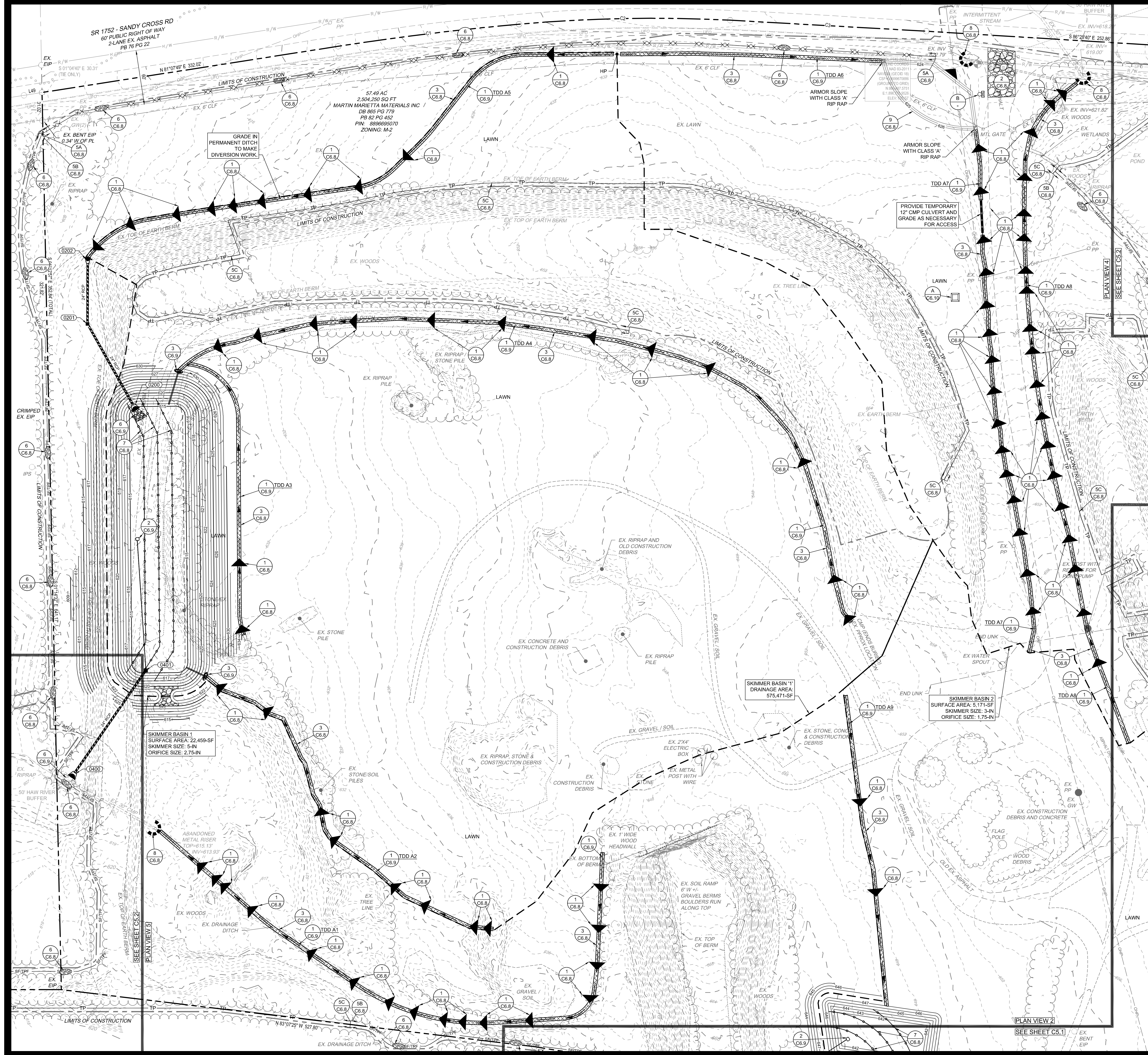
PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	800648
DATE:	August 14, 2023
REVISIONS	
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FIRE APPARATUS ACCESS PLAN

C4.2



GENERAL NOTES

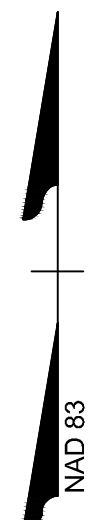
1. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL CODES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE. ALL OFF-SITE SOIL, BORROW AND WASTE SITES SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
3. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
4. 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.
5. 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.
6. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
7. TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
8. ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
10. PROVIDE 8-FT TALL CONSTRUCTION FENCING W/ SCREEN AROUND ALL WORK AREAS AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. ANY PAVEMENT DAMAGED FROM TEMPORARY FENCING SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. TOTAL DISTURBED AREA: 33.76 AC.

KEY NOTES

1 C6.8	CHECK DAM	
2 C6.8	GRAVEL CONSTRUCTION ENTRANCE	
3 C6.8	TEMPORARY CHANNEL LINING (EXCLOSURE)	
4 C6.8	ROLLED EROSION CONTROL PRODUCT	
5A C6.8	TEMPORARY SILT FENCE	
5B C6.8	TEMPORARY COMBINATION TREE PROTECTION & SILT FENCE	
5C C6.8	TEMPORARY TREE PROTECTION FENCE	
6 C6.8	REINFORCED SILT FENCE OUTLET PROTECTION	
7 C6.8	COIR MESH BAFFLES	
8 C6.8	TEMPORARY EXCAVATED PIPE INLET PROTECTION	
9 C6.8	CHECK DAM WITH SEDIMENT STORAGE	
1 C6.9	TEMPORARY DIVERSION DITCH	
2 C6.9	TEMPORARY SKINNER BASIN	
3 C6.9	TEMPORARY SLOPE DRAIN	
4 C6.9	INLET PROTECTION	
5 C6.9	TEMPORARY WATTLE	
6 C6.9	RIPRAP OUTLET PROTECTION	
A C6.10	CONCRETE WASHOUT AREA	
B C6.10	RAIN GAUGE AND PERMIT RECORDS BOX	
1 C6.8	LIMITS OF CONSTRUCTION	
2 C6.8	PROPOSED STORM SEWER PIPES	
3 C6.8	PROPOSED ROOF DRAIN PIPING	
4 C6.8	SKIMMER BASIN DRAINAGE AREA	
5 C6.8	EXISTING CONTOUR	
6 C6.8	FINISHED CONTOUR	
7 C6.8	DUST CONTROL	

CONSTRUCTION SEQUENCE - PH I

1. OBTAIN AN APPROVED PLAN AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND APPROVAL LETTER MUST BE ON FILE AT THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES BY CALLING THE NCDEQ WINSTON-SALEM REGIONAL OFFICE AT (336) 776-9800.
2. CONDUCT PRE-CONSTRUCTION CONFERENCE AND INVITE NCDEQ LAND QUALITY SECTION, WINSTON-SALEM REGIONAL OFFICE, BY CALLING (336) 776-9800.
3. INSTALL CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE AND REINFORCED SILT FENCE OUTLETS.
4. CLEAR/GRUB AND GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL MEASURES AND BASIN.
5. INSTALL STORM NETWORK STRUCTURES 0200 - 0202 AS WELL AS RISER STRUCTURE 0401 TO 0400.
6. CALL NCDEQ AND THE ENGINEER TO ARRANGE AN INSPECTION OF INSTALLED EROSION CONTROL DEVICES. (NOTE: DEMOLITION, GRADING, AND ANY OTHER CONSTRUCTION WORK SHALL NOT OCCUR UNTIL THE EROSION CONTROL FEATURES ARE INSTALLED AND APPROVED BY NCDEQ INSPECTOR.)
7. PROCEED WITH DEMOLITION, GRADING AND SITE WORK AS SHOWN ON PLANS.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LAY DOWN, STAGING, DIRT & WASTE PILE AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. ONCE THE SITE IS READY TO MOVE FORWARD WITH SITE PAVING, STABILIZE THE SITE AND PROCEED TO PHASE 2 EROSION CONTROL.



SCALE 1"=40'

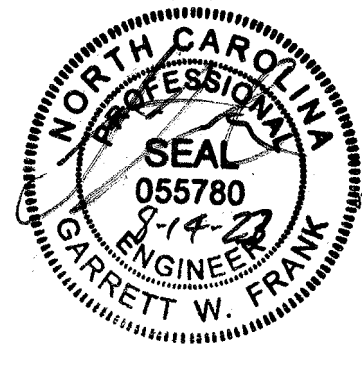
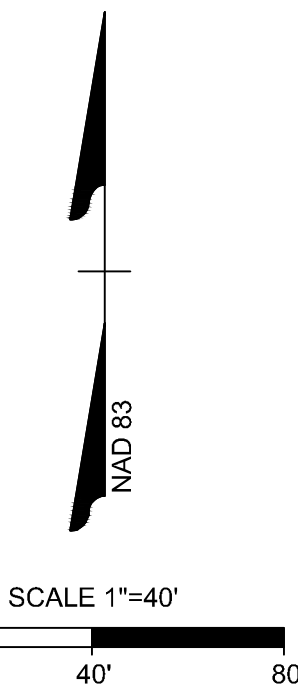


- THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES IN OBSERVING EROSION CONTROL MEASURES BOTH ON AND OFF SITE.
- NO SOIL, SAND OR OTHER ERODIBLE MATERIALS SHALL BE PROPERLY PERMITTED FOR SUCH ACTIVITIES.
- THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AT ALL TIMES AND SHALL MAINTAIN THEM AS DIRECTED BY LOCAL AUTHORITY OR ENGINEER.
- ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
- FOR PERMANENTLY DISTURBED AREAS, THE EROSION CONTROL FLUSHED OF ALL SEDIMENT FOLLOWING SITE STABILIZATION. INTERIOR FLUSHING OF SYSTEM SHALL BE PERFORMED AS NEEDED TO MAINTAIN PROPER FUNCTION OF THE SYSTEM.
- THE INDICATED STAGING AREA IS INTENDED FOR VEHICLES AND NON-ERODIBLE MATERIALS ONLY. NO SOIL, SAND OR OTHER ERODIBLE MATERIALS OR MATERIALS 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.
- TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL MEASURES.
- ALL APPLICABLE EAS CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
- ALL DISTURBED AREAS SHALL BE REVEGETATED WITHIN 90 CALENDAR DAYS OF ALL DISTURBED AREAS WITHIN 5 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
- PROVIDE 6-FT TALL CONSTRUCTION FENCING W/ SCREEN AROUND ALL WORK AREAS AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. ANY PAVEMENT DAMAGED FROM TEMPORARY FENCING SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. TOTAL DISTURBED AREA: 33.76 AC.

1 C6.8	CHECK DAM	
2 C6.8	GRAVEL CONSTRUCTION ENTRANCE	
3 C6.8	TEMPORARY CHANNEL LINING (EXCLESIOR)	
4 C6.8	ROLLED EROSION CONTROL PRODUCT	
5A C6.8	TEMPORARY SILT FENCE	
5B C6.8	TEMPORARY COMBINATION TREE PROTECTION & SILT FENCE	
5C C6.8	TEMPORARY TREE PROTECTION FENCE	
6 C6.8	REINFORCED SILT FENCE OUTLET PROTECTION	
7 C6.8	COIR MESH BAFFLES	
8 C6.8	TEMPORARY EXCAVATED PIPE INLET PROTECTION	
9 C6.8	CHECK DAM WITH SEDIMENT STORAGE	
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A C6.10	CONCRETE WASHOUT AREA	
B C6.10	RAIN GAUGE AND PERMIT RECORDS BOX	
	LIMITS OF CONSTRUCTION	
	PROPOSED STORM SEWER PIPES	
	PROPOSED ROOF DRAIN PIPING	
	SKIMMER BASIN DRAINAGE AREA	
	EXISTING CONTOUR	
	FINISHED CONTOUR	
	DUST CONTROL	

1. OBTAIN AN APPROVED PLAN AND APPLICABLE PERMIT PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY. A COPY OF THE APPROVED PLAN AND PERMIT MUST BE SUBMITTED TO THE JOB SITE. NOTIFY EROSION CONTROL AUTHORITIES OF PROPOSED STARTING DATE OF LAND DISTURBING ACTIVITIES BY CALLING THE NCDENR EROSION CONTROL DIVISION AT 703-617-2200.
2. CONDUCT PRE-CONSTRUCTION CONFERENCE AND INVITE NCDENR LAND QUALITY SECTION, WINSTON-SALEM REGIONAL OFFICE, BY CALLING (336) 776-6240.
3. INSTALL CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE AND REINFORCED SILT FENCE OUTLETS.
4. CLEAR/ROB AND GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL MEASURES.
5. INSTALL STORM NETWORK STRUCTURES 0200 - 0202 AS WELL AS RISER STRUCTURE 0401 TO 0400.
6. CALL NCDENR TO THE PROJECT TO ARRANGE AN INSPECTION OF INSTALLED EROSION CONTROL DEVICES. (NOTE: DEMOLITION, GRADING, AND ANY OTHER CONSTRUCTION WORK SHALL NOT OCCUR UNTIL THE EROSION CONTROL MEASURES ARE INSTALLED AND APPROVED BY NCDENR INSPECTOR.)
7. PROCEED WITH DEMOLITION, GRADING AND SITE WORK AS SHOWN ON PLANS.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LAY DOWN AREAS AND EXPOSED AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. ONCE THE SITE IS READY TO PROCEED WITH SITE PAVING, STABILIZE THE SITE AND PROCEED TO PHASE 2 EROSION CONTROL.

VILLAGE MOBILE
HOME PARK LLC
DB 3969 PG 386
PB 41 PG 192
PIN: 8896777840



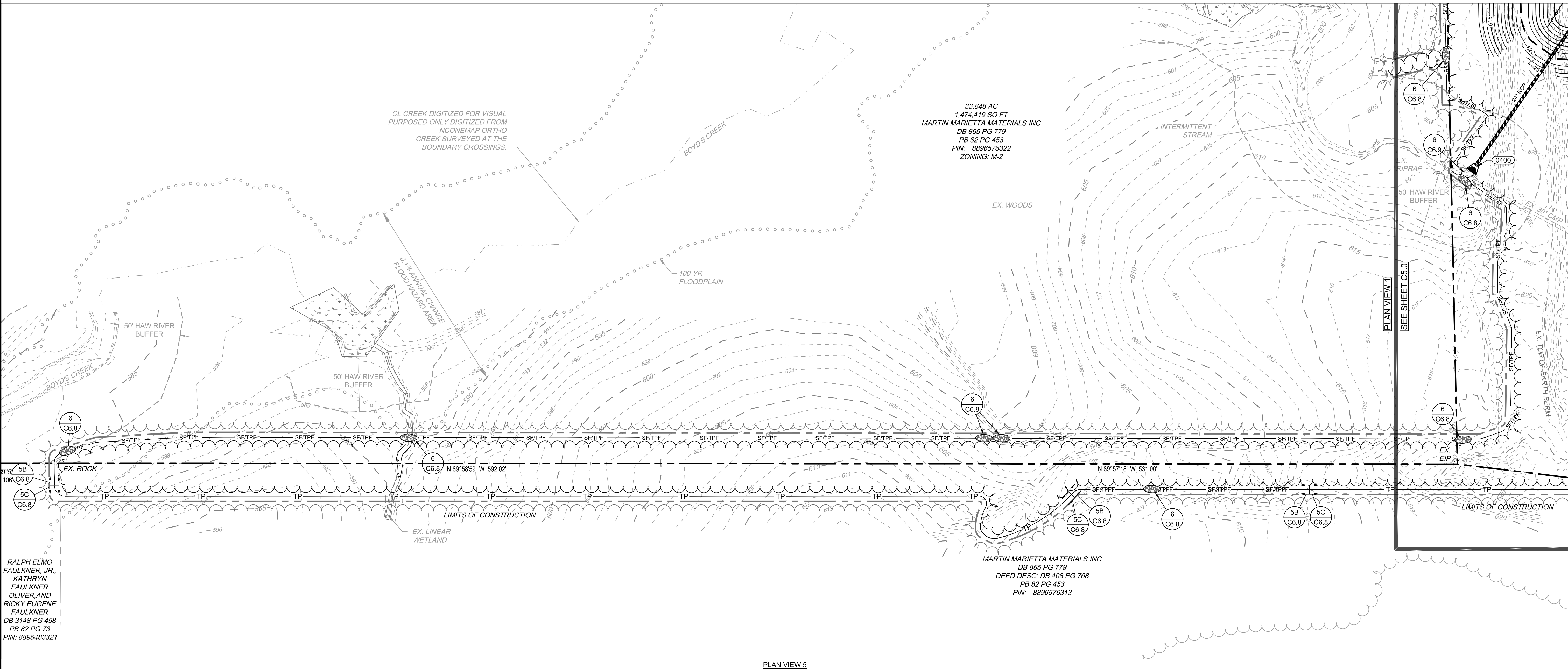
PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 600646	
DATE: August 14, 2023	
REVISIONS	
DATE	DESCRIPTION

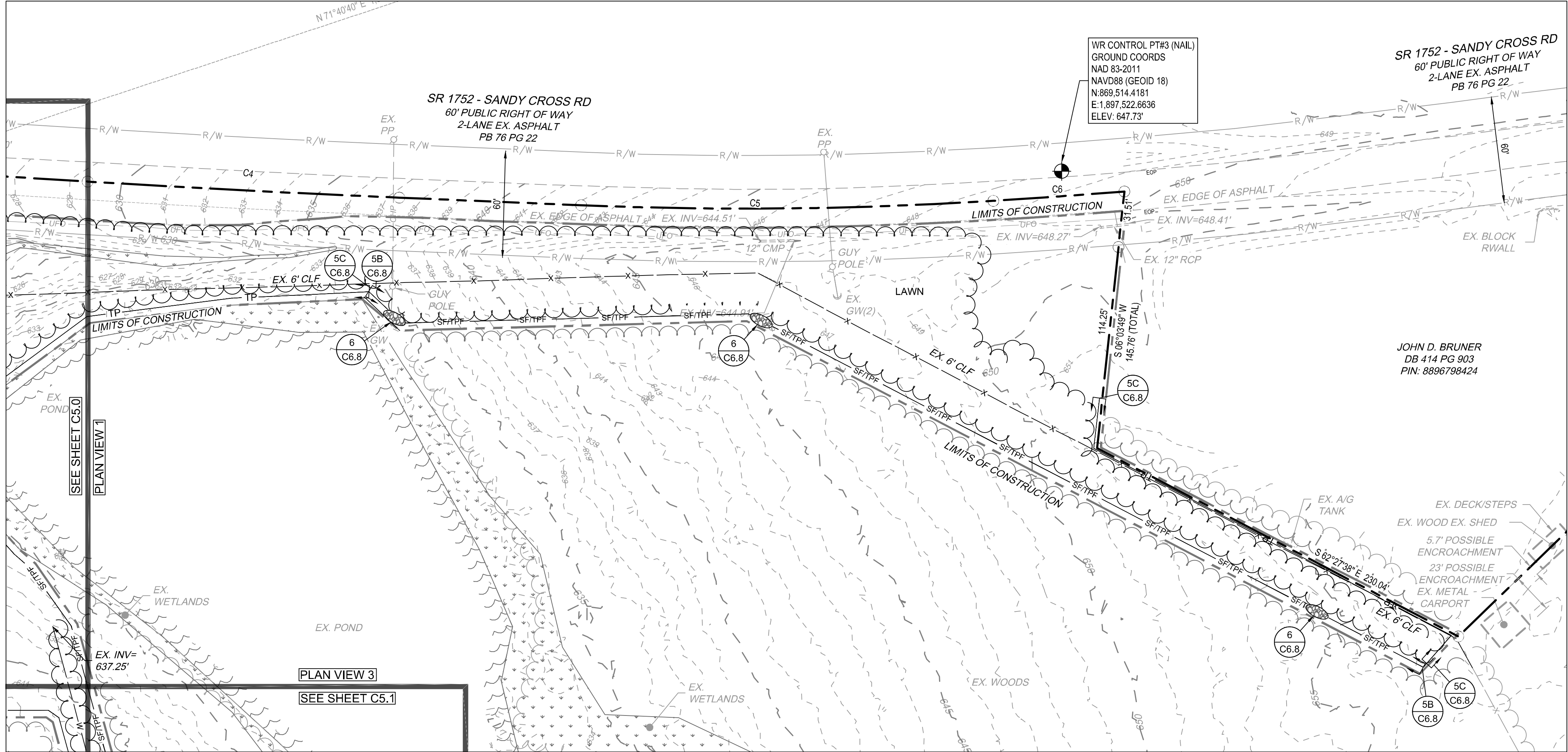
EROSION &
SEDIMENT
CONTROL
PLAN PHASE

C5.1



RALPH ELMO
FAULKNER, JR.
KATHRYN
FAULKNER
OLIVER AND
RICKY EUGENE
FAULKNER
DB 3148 PG 458
PB 82 PG 73
PIN: 8896483321

PLAN VIEW 5



PLAN VIEW 4

GENERAL NOTES

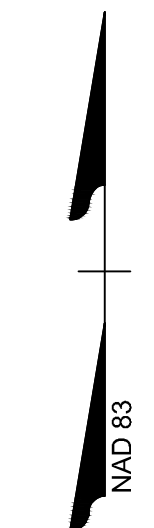
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2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
3. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER WORK STOPPAGE EACH DAY.
4. ALL STORM 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.
5. 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.
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8. ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
10. PROVIDE 8-FT TALL CONSTRUCTION FENCING W/ SCREEN AROUND ALL WORK AREAS AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. ANY PAVEMENT DAMAGED FROM TEMPORARY FENCING SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. TOTAL DISTURBED AREA: 33.76 AC.

KEY NOTES

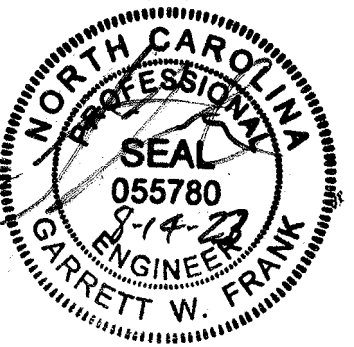
1 C6.8	CHECK DAM	
2 C6.8	GRAVEL CONSTRUCTION ENTRANCE	
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7 C6.8	DUST CONTROL	

CONSTRUCTION SEQUENCE - PH I

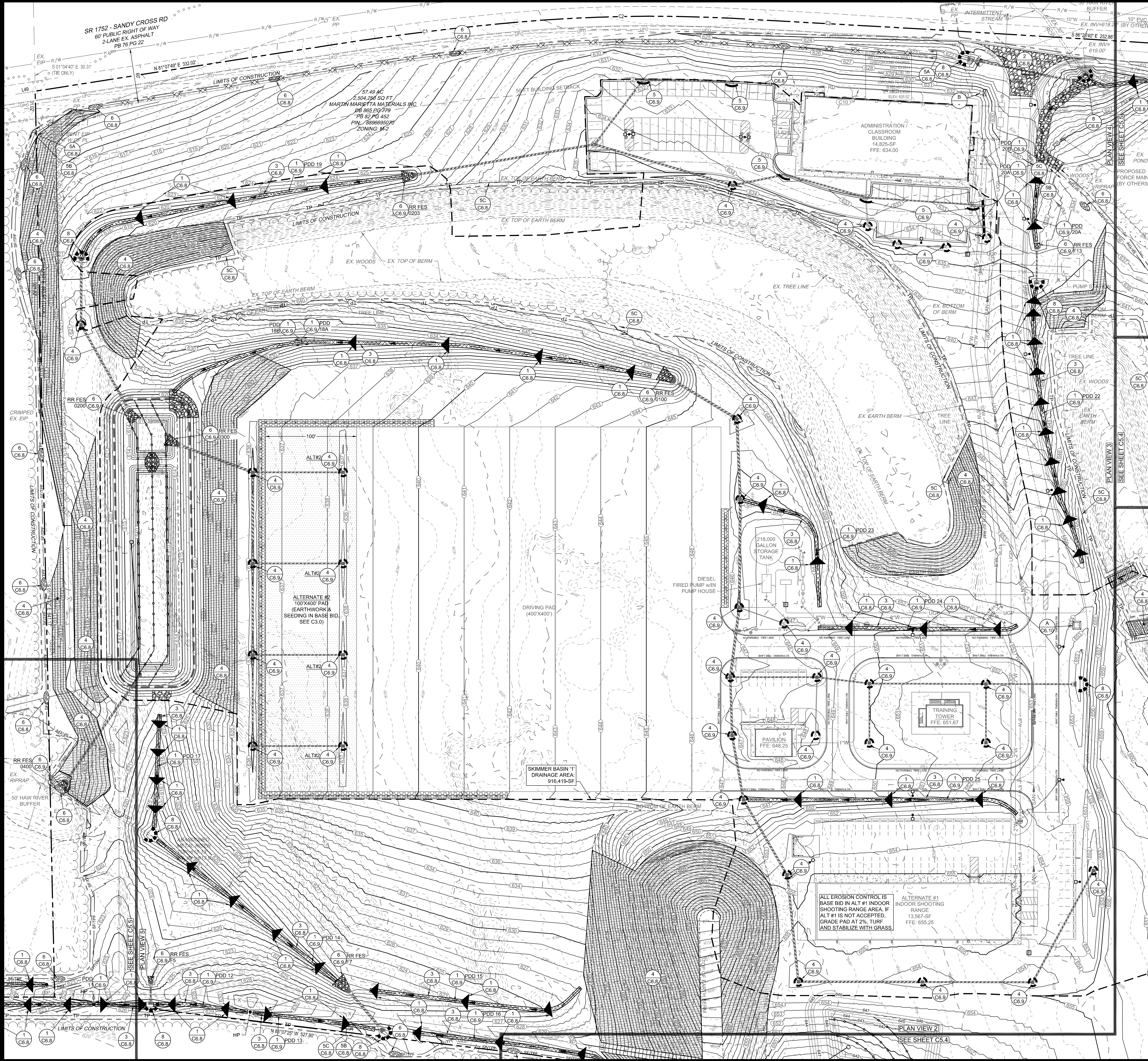
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2. CONDUCT PRE-CONSTRUCTION CONFERENCE AND INVITE NCDEQ LAND QUALITY SECTION, WINSTON-SALEM REGIONAL OFFICE, BY CALLING (336) 776-9800.
3. INSTALL CONSTRUCTION ENTRANCE, PERIMETER SILT FENCE AND REINFORCED SILT FENCE OUTLETS.
4. CLEAR/GRUB AND GRADE ONLY AS NECESSARY TO INSTALL EROSION CONTROL MEASURES AND BASIN.
5. INSTALL STORM NETWORK STRUCTURES 0200 - 0202 AS WELL AS RISER STRUCTURE 0401 TO 0400.
6. CALL NCDEQ AND THE ENGINEER TO ARRANGE AN INSPECTION OF INSTALLED EROSION CONTROL DEVICES. (NOTE: DEMOLITION, GRADING, AND ANY OTHER CONSTRUCTION WORK SHALL NOT OCCUR UNTIL THE EROSION CONTROL FEATURES ARE INSTALLED AND APPROVED BY NCDEQ INSPECTOR.)
7. PROCEED WITH DEMOLITION, GRADING AND SITE WORK AS SHOWN ON PLANS.
8. MAINTAIN ALL EROSION & SEDIMENT CONTROL MEASURES THROUGHOUT CONSTRUCTION. REMOVE AND STABILIZE CONSTRUCTION LADDERWAYS, STAGING, DIRT & WASTE PILE AREAS. ALL APPLICABLE E&S CONTROL MEASURES ARE TO REMAIN UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. ONCE THE SITE IS READY TO MOVE FORWARD WITH SITE PAVING, STABILIZE THE SITE AND PROCEED TO PHASE 2 EROSION CONTROL.



SCALE 1"=40'
0 40' 80'



PROJECT NO: 800648	August 14, 2023
DATE:	REVISIONS
DATE:	DESCRIPTION



- ### GENERAL NOTES
1. 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.
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 8. ALL APPLICABLE E&S CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
 9. PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER).
 10. PROVIDE 8-FT TALL CONSTRUCTION FENCING W/ SCREEN AROUND ALL WORK AREAS AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. ANY PAVEMENT DAMAGED FROM TEMPORARY FENCING SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
 11. TOTAL DISTURBED AREA: 33.76 AC.

- ### KEY NOTES
- | | | |
|---------|--|--|
| 1 C6.8 | CHECK DAM | |
| 2 C6.8 | GRAVEL CONSTRUCTION ENTRANCE | |
| 3 C6.8 | TEMPORARY CHANNEL LINING (EXCELSIOR) | |
| 4 C6.8 | ROLLED EROSION CONTROL PRODUCT | |
| 5A C6.8 | TEMPORARY SILT FENCE | |
| 5B C6.8 | TEMPORARY COMBINATION TREE PROTECTION & SILT FENCE | |
| 5C C6.8 | TEMPORARY TREE PROTECTION FENCE | |
| 6 C6.8 | REINFORCED SILT FENCE OUTLET PROTECTION | |
| 7 C6.8 | COIR MESH BAFFLES | |
| 8 C6.8 | TEMPORARY EXCAVATED PIPE INLET PROTECTION | |
| 1 C6.9 | TEMPORARY DIVERSION DITCH | |
| 2 C6.9 | TEMPORARY SKINNER BASIN | |
| 3 C6.9 | TEMPORARY SLOPE DRAIN | |
| 4 C6.9 | INLET PROTECTION | |
| 5 C6.9 | TEMPORARY WATTLE | |
| 6 C6.9 | RIPRAP OUTLET PROTECTION | |
| A C6.10 | CONCRETE WASHOUT AREA | |
| B C6.10 | RAIN GAUGE AND PERMIT RECORDS BOX | |
| - | LIMITS OF CONSTRUCTION | |
| - | PROPOSED STORM SEWER PIPES | |
| - | PROPOSED ROOF DRAIN PIPING | |
| - | SKIMMER BASIN DRAINAGE AREA | |
| - | EXISTING CONTOUR | |
| - | FINISHED CONTOUR | |
| - | DUST CONTROL | |

- ### CONSTRUCTION SEQUENCE - PH II
1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I. ADJUST AS NEEDED.
 2. AS SITE IS PAVED AND BROUGHT UP TO FINAL GRADE, INSTALL THE REMAINDER OF THE STORM DRAINAGE SYSTEM. INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED.
 3. INSTALL REMAINDER OF PAVING AND SITE FEATURES.
 4. RESPREAD TOPSOIL. INSTALL SLOP PROTECTION BLANKETS ON ANY 3:1 SLOPES AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED ON PLANS.
 5. VEGETATE ALL DISTURBED AREAS ACCORDING TO THE NPDES CHART.
 6. WHEN THE SITE IS STABILIZED, CONTACT NCDCE AT (336) 776-9800 AND TIMMONS GROUP AT (919) 866-4503 FOR AN INSPECTION.
 7. IF APPROVAL IS GRANTED BY NCDCE AND TIMMONS GROUP, REMOVE TEMPORARY SILT FENCING AND OTHER TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES.
 8. DEWATER SKIMMER BASINS BY PUMPING WATER THROUGH SILT BAG AS SHOWN ON PLANS.
 9. REMOVE SKIMMER BASINS AND ALL OTHER TEMPORARY EROSION CONTROL MEASURES. CONVERT SKIMMER BASIN #1 TO WET POND.
 10. FINE GRADE AND PROVIDE ALL REMAINING IMPROVEMENTS.
 11. SEED AND RE-SEED ALL BARE AREAS WITH PERMANENT SEEDING, MULCH OR LANDSCAPING.

MOSELEYARCHITECTS



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	800646
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION

EROSION & SEDIMENT CONTROL
PLAN PHASE II
C5.3


VILLAGE MOBILE
HOME PARK LLC
DB 3969 PG 386
PB 41 PG 192
PIN: 8896777840

1. 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.
2. THE CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL EVENT OR AS DIRECTED BY LOCAL AUTHORITIES OR ENGINEER.
3. ALL OPEN STORM PIPES SHALL BE PROTECTED WITH STONE FILTER PROTECTION AFTER EACH STOPPAGE EACH DAY.
4. 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 FLOW OF THE DRAINAGE SYSTEM.
5. 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 AREA PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES AND MEASURES.
6. SOIL AND OTHER MATERIALS SHALL ONLY BE TEMPORARILY STOCKPILED WITHIN THE CONSTRUCTION LIMITS PROTECTED BY SEDIMENT AND EROSION CONTROL DEVICES.
7. TREE PROTECTION INSPECTION SHALL BE COMPLETED PRIOR TO INSTALLING EROSION CONTROL DEVICES.
8. ALL APPLICABLE EROSION CONTROL MEASURES ARE TO BE PROPERLY MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED.
9. PERMANENT GROUND COVER SHALL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS WHICHEVER IS EARLIER.
10. PROVIDE A FULL CONSTRUCTION FENCING W/ SCREEN AROUND ALL WORK AREAS AT ALL TIMES DURING THE ENTIRE DURATION OF CONSTRUCTION. ANY PAYMENT DAMAGED FROM TEMPORARY FENCING SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.
11. TOTAL DISTURBED AREA: 33.76 AC.

1 C6.8	CHECK DAM	
2 C6.8	GRAVEL CONSTRUCTION ENTRANCE	
3 C6.8	TEMPORARY CHANNEL LINING (EXCISIOR)	
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A C6.10	CONCRETE WASHOUT AREA	
B C6.10	RAIN GAUGE AND PERMIT RECORDS BOX	
	LIMITS OF CONSTRUCTION	
	PROPOSED STORM SEWER PIPES	
	PROPOSED ROOF DRAIN PIPING	
	SKIMMER BASIN DRAINAGE AREA	
	EXISTING CONTOUR	
	FINISHED CONTOUR	
	DUST CONTROL	

1. MAINTAIN ALL EXISTING EROSION & SEDIMENT CONTROL MEASURES PREVIOUSLY CONSTRUCTED AND ASSOCIATED WITH PHASE I. ADJUST AS NEEDED.
2. AS SITE IS MOVED AND BROUGHT UP TO FINAL GRADE, INSTALL THE REMINDER OF THE STORM DRAINAGE SYSTEM, INSTALL INLET AND OUTLET PROTECTION DEVICES AT NEW STRUCTURES AS THEY ARE CONSTRUCTED.
3. INSTALL REMINDER OF PAVING AND SITE FEATURES.
4. RESPAED TOPSOIL, INSTALL SLOP PROTECTION BLANKETS ON ANY 3:1 SLOPES AND VEGETATE STEEP SLOPES AS THEY ARE ESTABLISHED ON PLANS.
5. VEGETATE ALL DISTURBED AREAS ACCORDING TO THE NPDES CHART. WHEN THE SITE IS STABILIZED, CONTACT NCDOT AT (336) 776-9800, AND TIMMONS GROUP AT (919) 866-4053 FOR AN INSPECTION.
6. EROSION IS GRANTED BY THE NCDOT AND TIMMONS GROUP. REMOVE TEMPORARY SILT FENCINGS AND OTHER TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES.
7. DEWATER SKIMMER BASINS BY PUMPING WATER THROUGH SILT BAG AS LOW AS POSSIBLE.
8. REMOVE SKIMMER BASINS AND ALL OTHER TEMPORARY EROSION CONTROL MEASURES. CONVERT SKIMMER BASIN 1 TO WET POND.
9. FINE GRADE AND PROVIDE ALL REMAINING IMPROVEMENTS.
10. SEED AND SOIL SEED AREAS WITH PERMANENT SEEDING, MULCH OR LANDSCAPING.

A circular professional engineer seal for the State of North Carolina. The outer ring contains the text "NORTH CAROLINA" at the top and "GARRETT W. FRANK" at the bottom. Inside the ring, the word "PROFESSIONAL" is at the top, "ENGINEER" is at the bottom, and "SEAL" is in the center. Below "SEAL" is the number "055780". A handwritten signature, "G. W. Frank", is written across the seal.


TIMMONS GROUP
"OUR VISION ACHIEVED THROUGH OURS."
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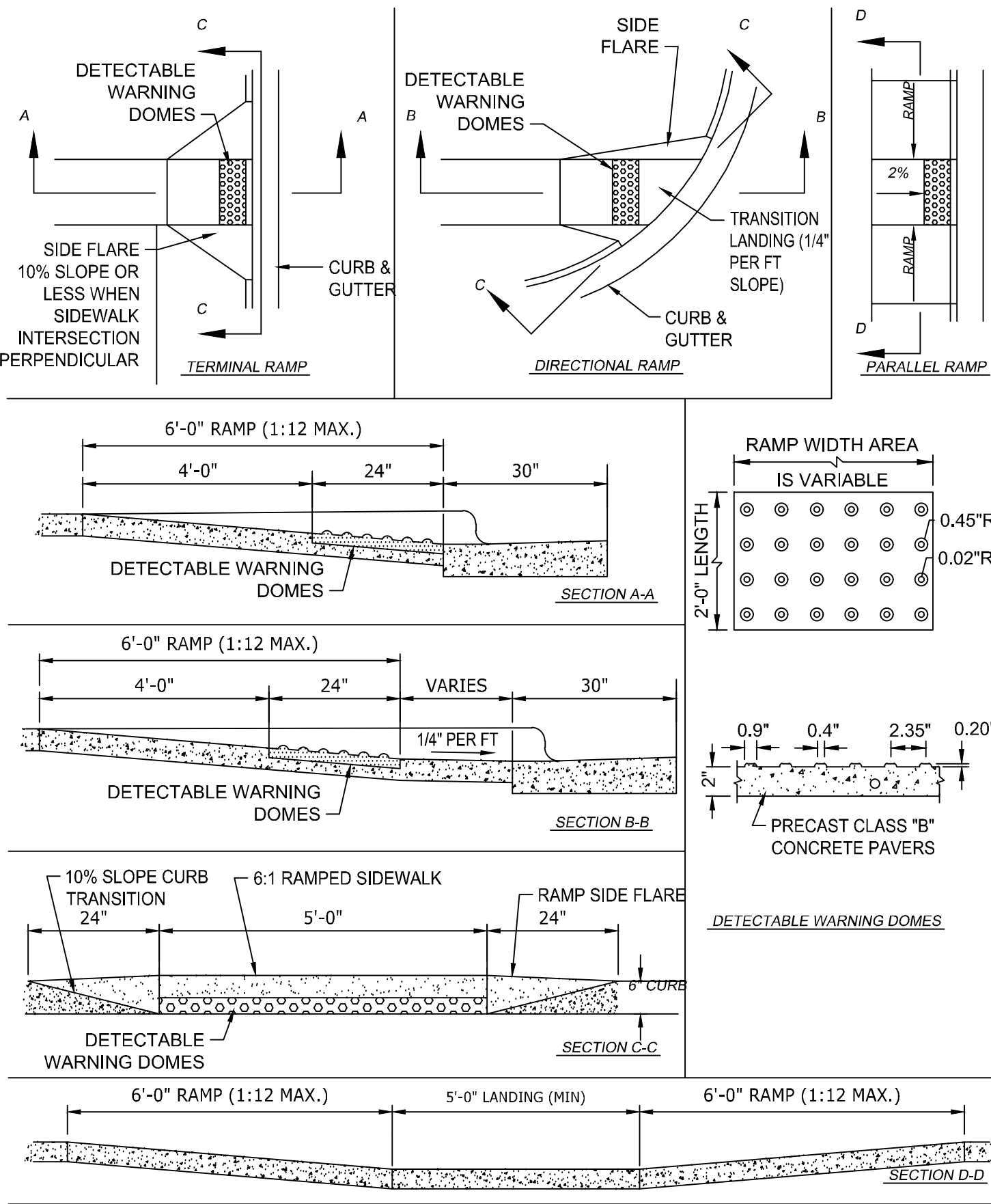
PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 600646	
DATE: August 14, 2023	
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EROSION &
SEDIMENT
CONTROL
PLAN PHASE II

C5.4



- NOTES:
1. NO SLOPE ON THE SIDEWALK ACCESS RAMP SHALL EXCEED 1" IN 12 IN RELATIONSHIP TO THE GRADE OF THE STREET. WHERE SIDEWALK INTERSECTS RAMP PERPENDICULAR, SIDE FLARES SHALL BE LESS THAN 10% SLOPE.
 2. IN NO CASE SHALL THE WIDTH OF THE ACCESS RAMP BE LESS THAN 48" (4'-0").
 3. DETECTABLE WARNING DOMES SHALL COVER 2'-0" LENGTH AND FULL WIDTH OF THE RAMP FLOOR AS SHOWN.
 4. FLARES MAY BE SLOPED GREATER THAN 10% WHEN A SIDEWALK IS NOT INTERSECTING PERPENDICULAR WITH RAMP.

- COMPACTION NOTES:
- SUBGRADE AND ABC STONE
1. COMPACT TO MAXIMUM DRY DENSITY PER ASTM D698 STANDARD PROCTOR AND WITHIN 3% MAXIMUM MOISTURE CONTENT.
 2. COMPACT SUBGRADE SOIL TO 95%.
 3. COMPACT ABC STONE TO 100%.
 4. REFER TO SPECIFICATION SECTION 31 10 00 FOR ADDITIONAL INFORMATION.
- ASPHALT
1. COMPACT ASPHALT TO 92% MAXIMUM SPECIFIC GRAVITY.
 2. REFER TO SPECIFICATION SECTION 32 12 16 FOR ADDITIONAL INFORMATION.

KEYNOTE	2 (C6.0)	3 (C6.0)	4 (C6.0)
PATTERN			
CLASSIFICATION	HEAVY DUTY ASPHALT	GRAVEL	LIGHT DUTY ASPHALT
TYPE S-9.5B (2018) SURFACE COURSE	2"	-	3" (2,1.5" LIFTS)
TYPE I-9.0B (2018) SURFACE COURSE	4"	-	-
NCDOT CABG STONE	8"	8"	6"

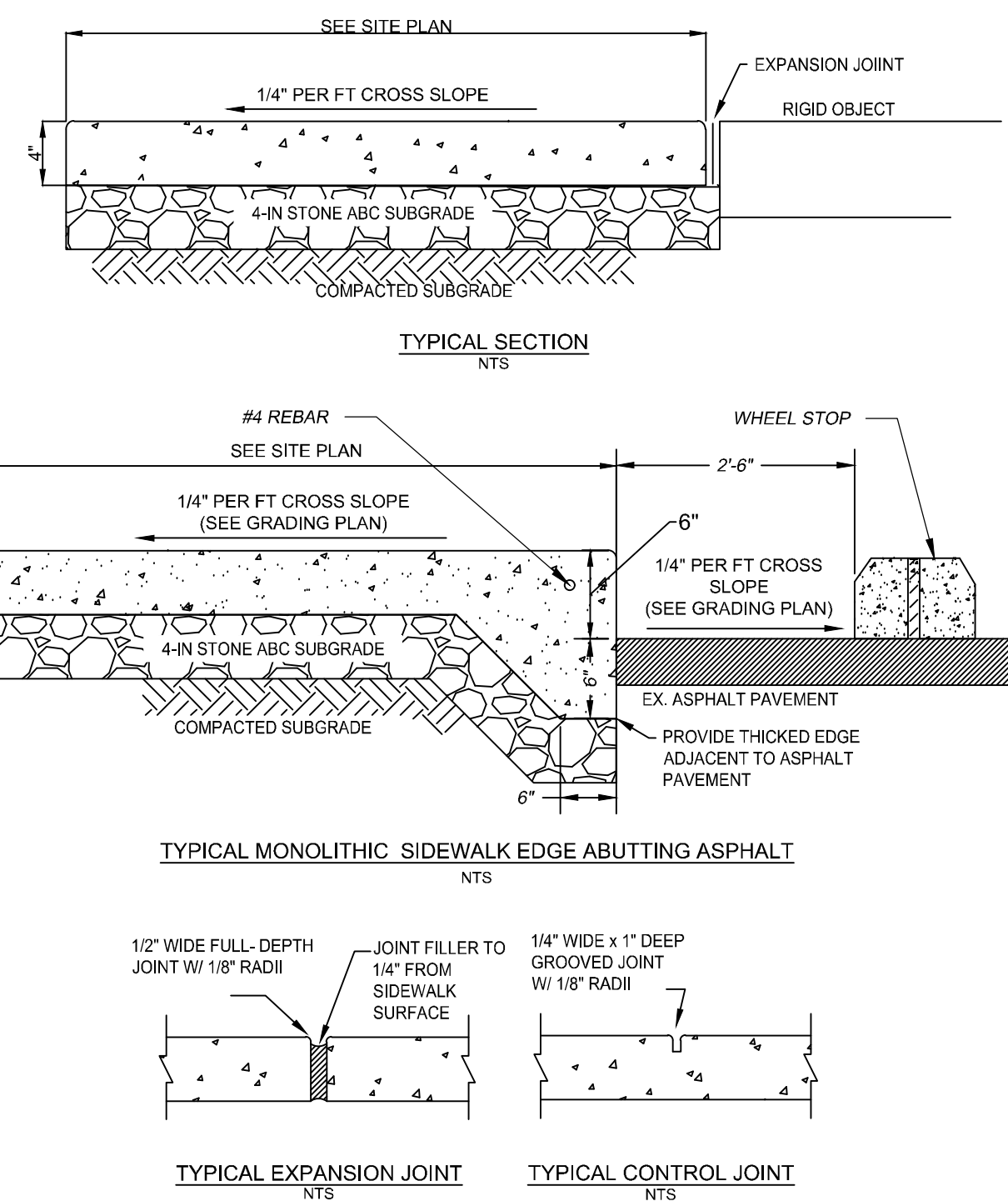
TACK COAT BETWEEN LIFTS

PRIME COAT ON STONE (ASPHALT AREAS ONLY)

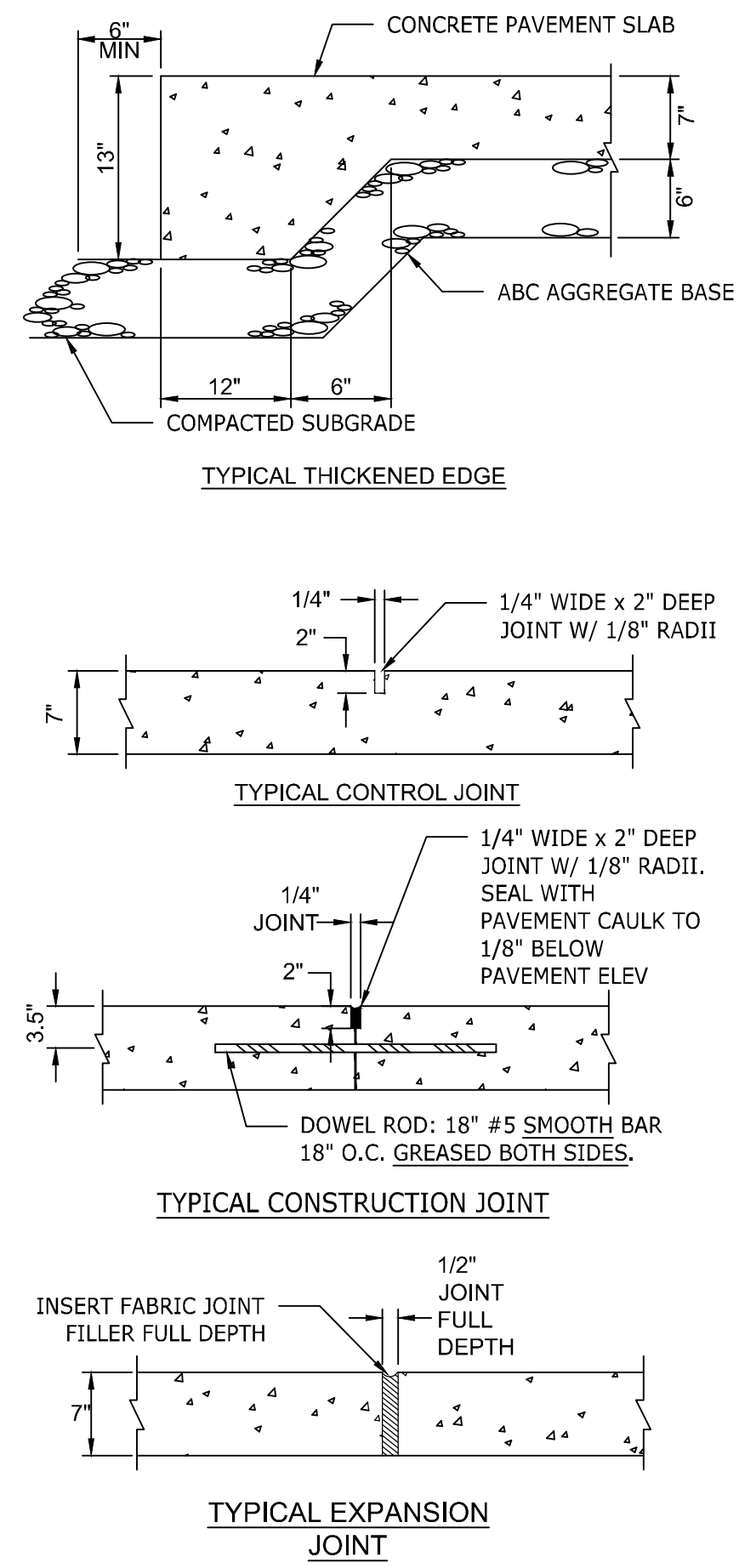
GEOGRID (IF NECESSARY)

COMPACTED SUBGRADE

- NOTES:
1. THE CONTRACTOR MAY CHOOSE TO INSTALL INTERMEDIATE COURSES OF PAVEMENT TO STABILIZE THE SITE DURING CONSTRUCTION AT NO ADDITIONAL COST. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ADEQUATE THICKNESS REQUIRED FOR INTERMEDIATE PAVING. INCREASES IN THE DESIGN PAVEMENT SECTION TO FACILITATE INTERMEDIATE PAVING SHALL BE PROVIDED AT NO ADDITIONAL COST.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING PAVEMENT DURING ALL PHASES OF WORK. THE FINAL SURFACE OF PAVEMENT SHALL BE FREE OF ALL DEFECTS OR DAMAGE.
 3. CONTRACTOR IS RESPONSIBLE FOR THEIR OWN QC TESTING, PROOF ROLL, AND REQUIREMENTS NOTED IN SPECIFICATIONS.
 4. OWNER WILL ACQUIRE 3RD PARTY QC TESTING SERVICES FOR SOILS AND PAVEMENTS.
 5. REFER TO SPECIFICATION SECTION 32 12 16 & 31 10 00 FOR ADDITIONAL INFORMATION.



- GENERAL NOTES:
1. PROVIDE GROOVE CONTROL JOINT 1-IN DEEP WITH 1/8-IN RADII IN SIDEWALK AT 5' INTERVALS UNLESS INDICATED OTHERWISE.
 2. PROVIDE 1/2-IN EXPANSION JOINT AT 50' INTERVALS.
 3. PROVIDE 1/2-IN EXPANSION JOINT WHERE THE SIDEWALK ABUTS ANY RIGID STRUCTURE.
 4. SEE SPECIFICATIONS FOR ADDITIONAL JOINT SPACING REQUIREMENTS.
 5. ALL CONCRETE SHALL BE 3,000 P.S.I. WITH BROOM FINISH.
 6. ALL SIDEWALKS SHALL HAVE 2% OR LESS CROSS SLOPE.
 7. ALL SIDEWALKS SHALL HAVE 5% OR LESS LONGITUDINAL SLOPE.



CONCRETE PAVEMENT DIMENSIONS

CONC SLAB THICKNESS = 7"

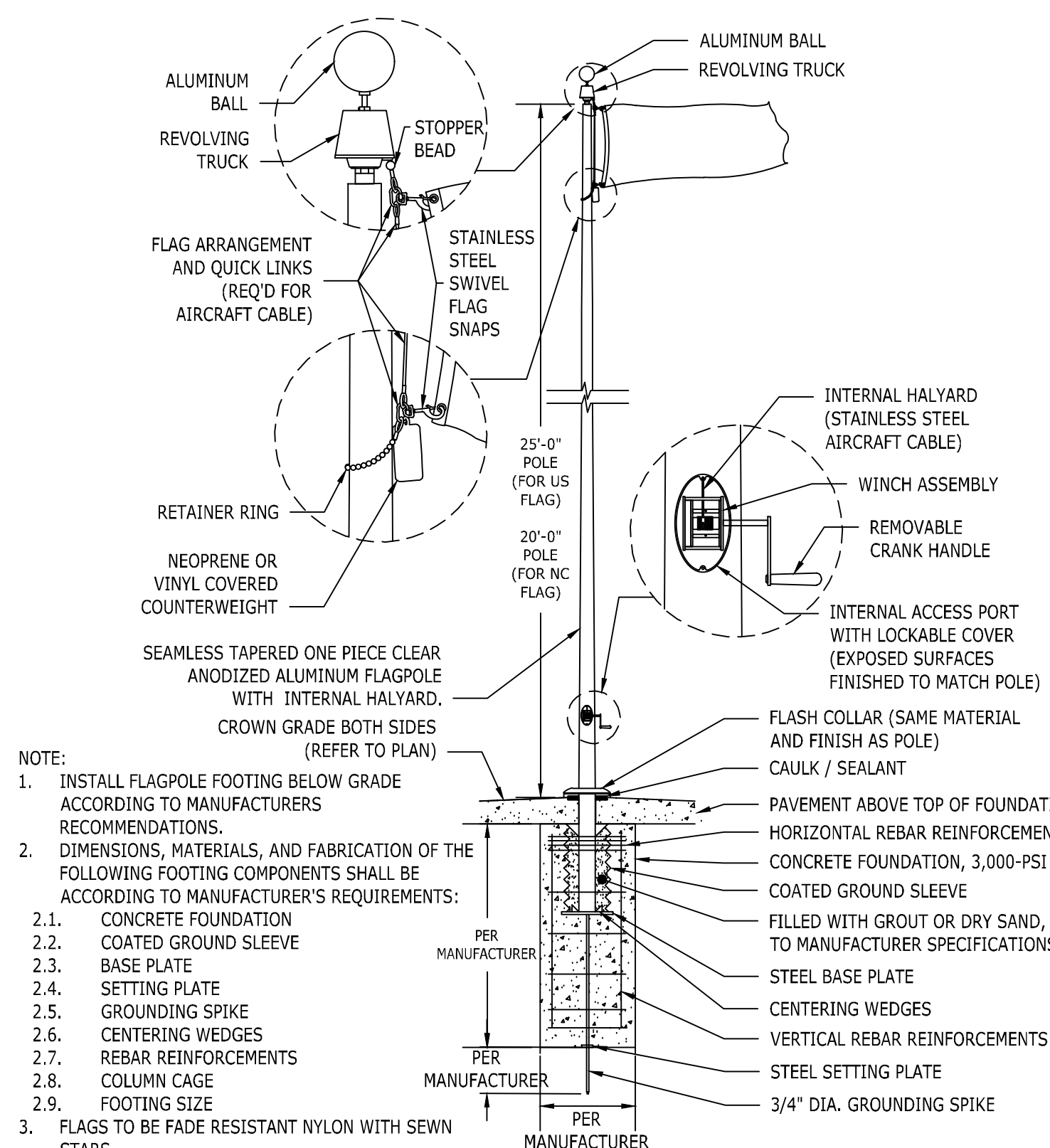
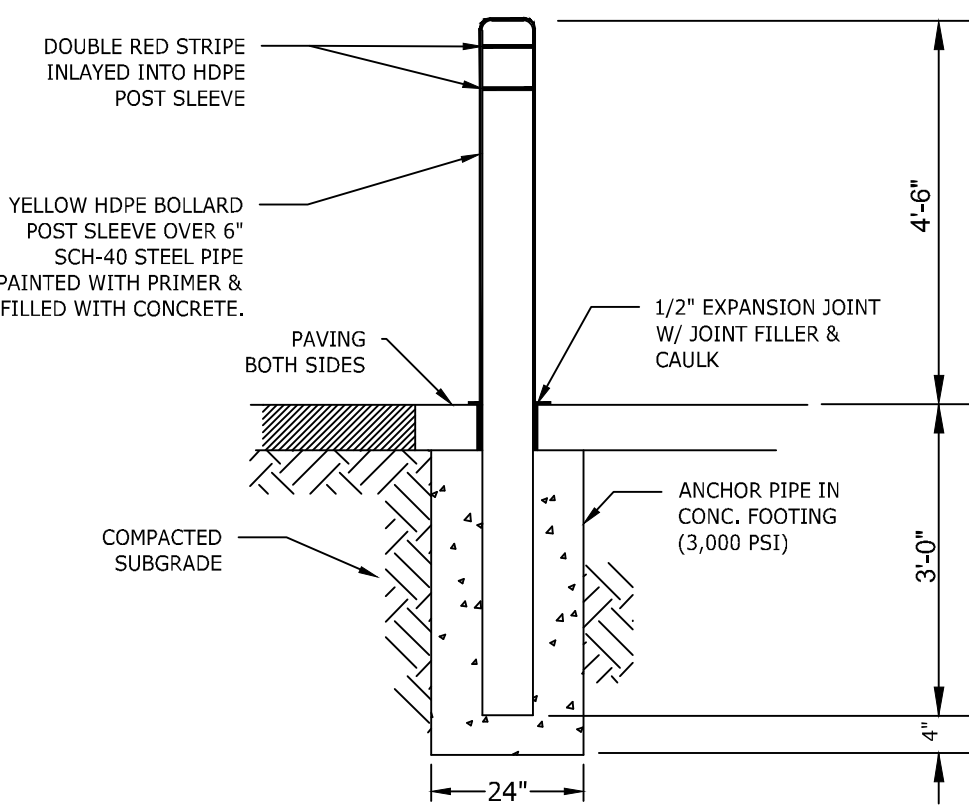
CABC THICKNESS = 6"

REINFORCEMENT = 6x6 - W2.9xW2.9

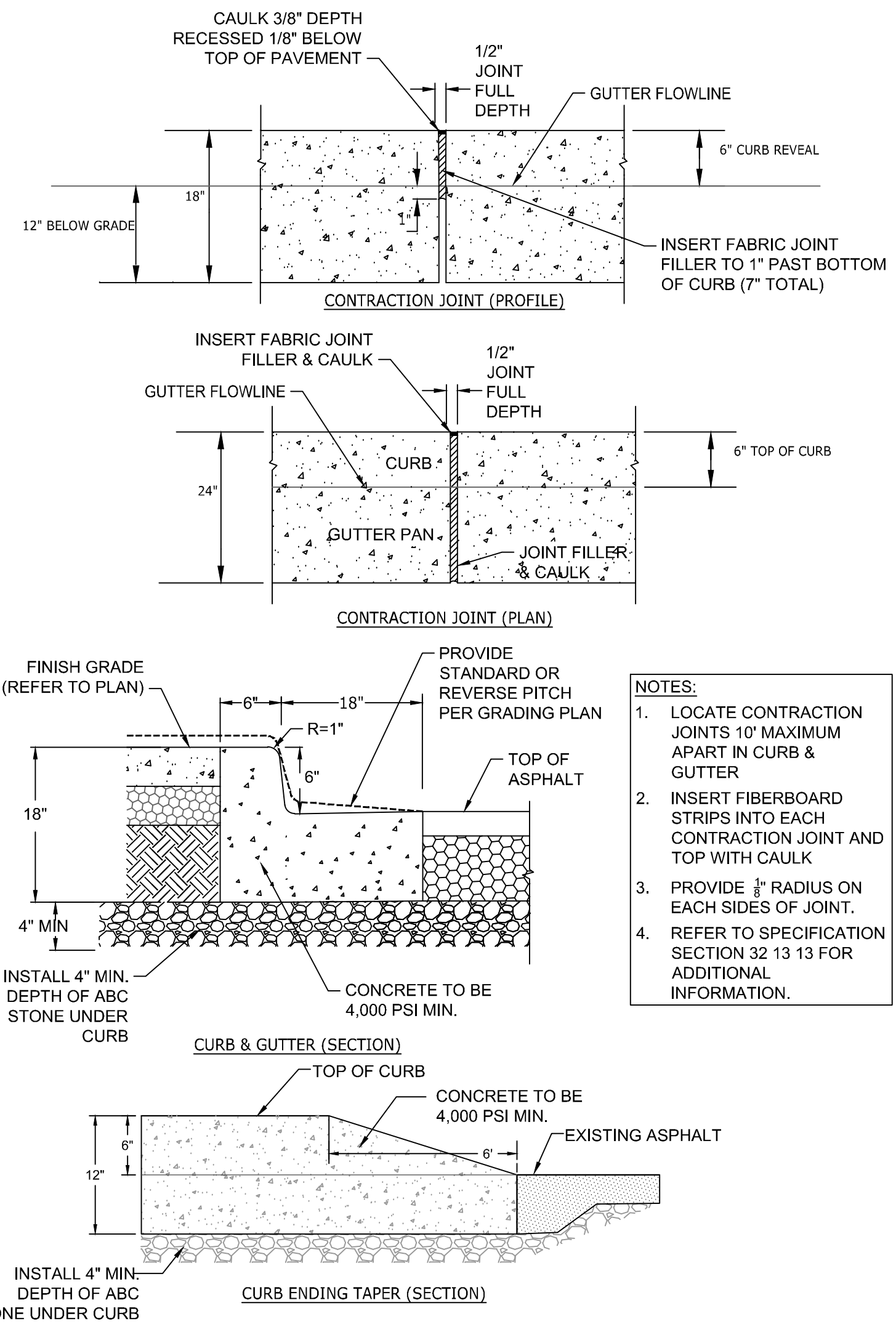
DOWEL RODS = 18" #5 SMOOTH BARS GREASED BOTH SIDES

- NOTES:
1. ALL CONCRETE PAVEMENT SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI MIN. (ASTM C39).
 2. CONTROL JOINTS SHALL BE SPACED AT 10' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN.
 3. EXPANSION JOINTS SHALL BE SPACED AT 30' O.C.E.W. MAX. OR AS INDICATED ON THE PLAN AND WHERE CONCRETE PAVEMENT ABUTS ANY RIGID OBJECT.
 4. INSTALL THICKENED EDGES ALONG ALL EDGES / SIDES OF CONCRETE PAVEMENT.
 5. O.C.E.W. REFERS TO "ON CENTER EACH WAY".
 6. CAULK ALL EXPANSION JOINTS WITH SELF LEVELING COMPOUND.

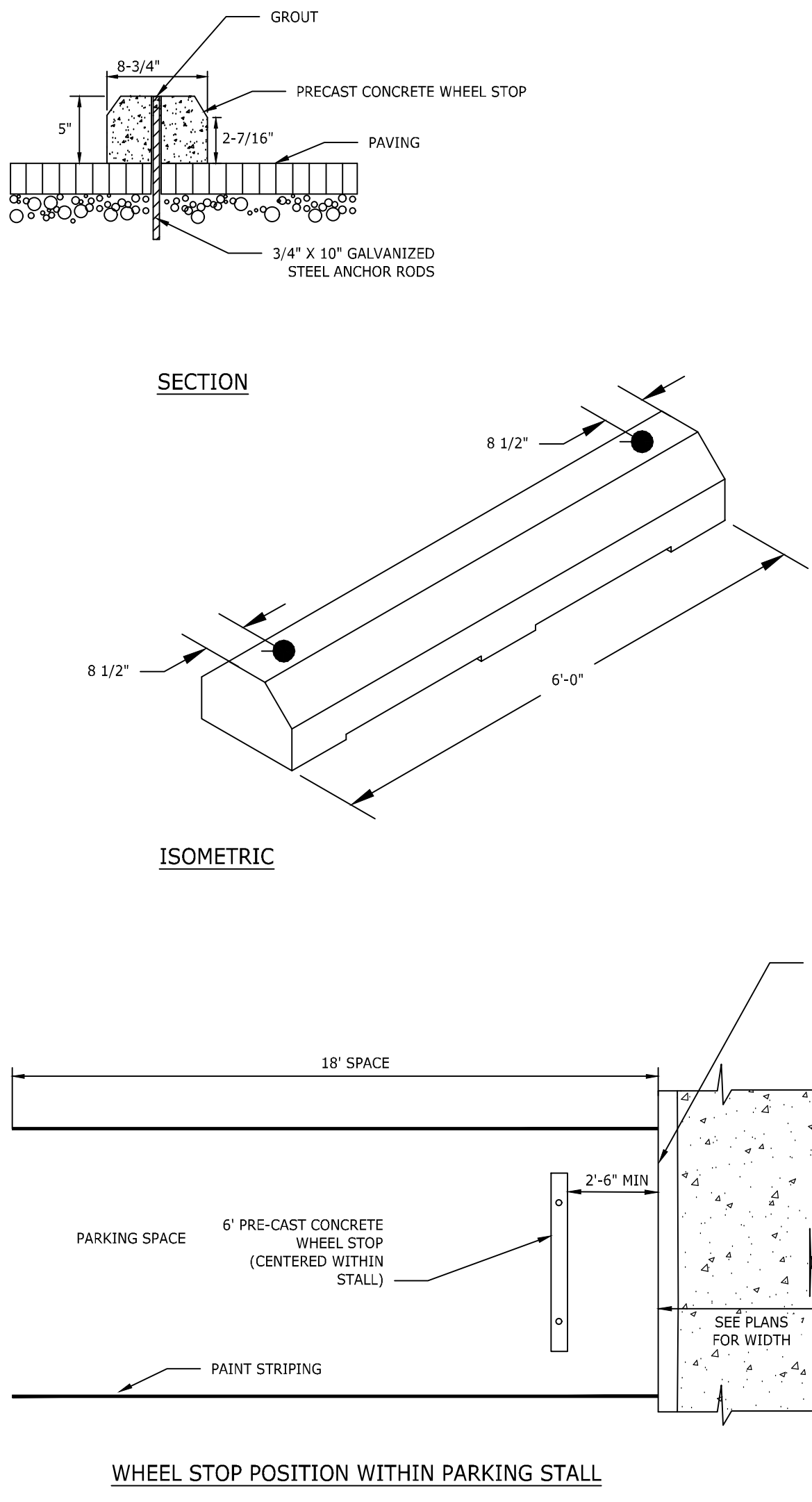
1 ACCESSIBLE CURB RAMPS N.T.S. 2 3 4 ASPHALT & GRAVEL PAVEMENTS N.T.S. 5 STANDARD DUTY CONCRETE N.T.S. 6 HEAVY DUTY CONCRETE PAVEMENT N.T.S.



- NOTE:
1. INSTALL FLAGPOLE FOOTING BELOW GRADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
 2. DIMENSIONS, MATERIALS, AND FABRICATION OF THE FOLLOWING FOOTING COMPONENTS SHALL BE ACCORDING TO MANUFACTURER'S REQUIREMENTS:
 - 2.1. CONCRETE FOUNDATION
 - 2.2. COATED GROUND SLEEVE
 - 2.3. BASE PLATE
 - 2.4. SETTING PLATE
 - 2.5. GROUNDING SPIKE
 - 2.6. CENTERING WEDGES
 - 2.7. REBAR REINFORCEMENTS
 - 2.8. COLUMN CAGE
 - 2.9. FOOTING SIZE
 3. FLAGS TO BE FADE RESISTANT NYLON WITH SEWN STARS.
 4. MAX WIND SPEED WITH NYLON FLAG: XXX MPH
 5. MAX WIND SPEED WITHOUT FLAG: XXX MPH

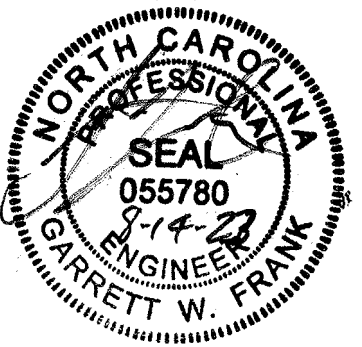


- NOTES:
1. LOCATE CONTRACTION JOINTS 10' MAXIMUM APART IN CURB & GUTTER
 2. INSERT FIBERBOARD STRIPS INTO EACH CONTRACTION JOINT AND TOP WITH CAULK
 3. PROVIDE 1/4" RADIUS ON EACH SIDES OF JOINT.
 4. REFER TO SPECIFICATION SECTION 32 13 13 FOR ADDITIONAL INFORMATION.



7 6" STEEL BOLLARD WITH HDPE SLEEVE N.T.S. 8 FLAG POLE N.T.S. 9 24" CONCRETE CURB & GUTTER N.T.S. 10 PRECAST CONCRETE WHEEL STOP N.T.S.

MOSELEYARCHITECTS



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PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 800648
DATE: August 14, 2023

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SITE DETAILS

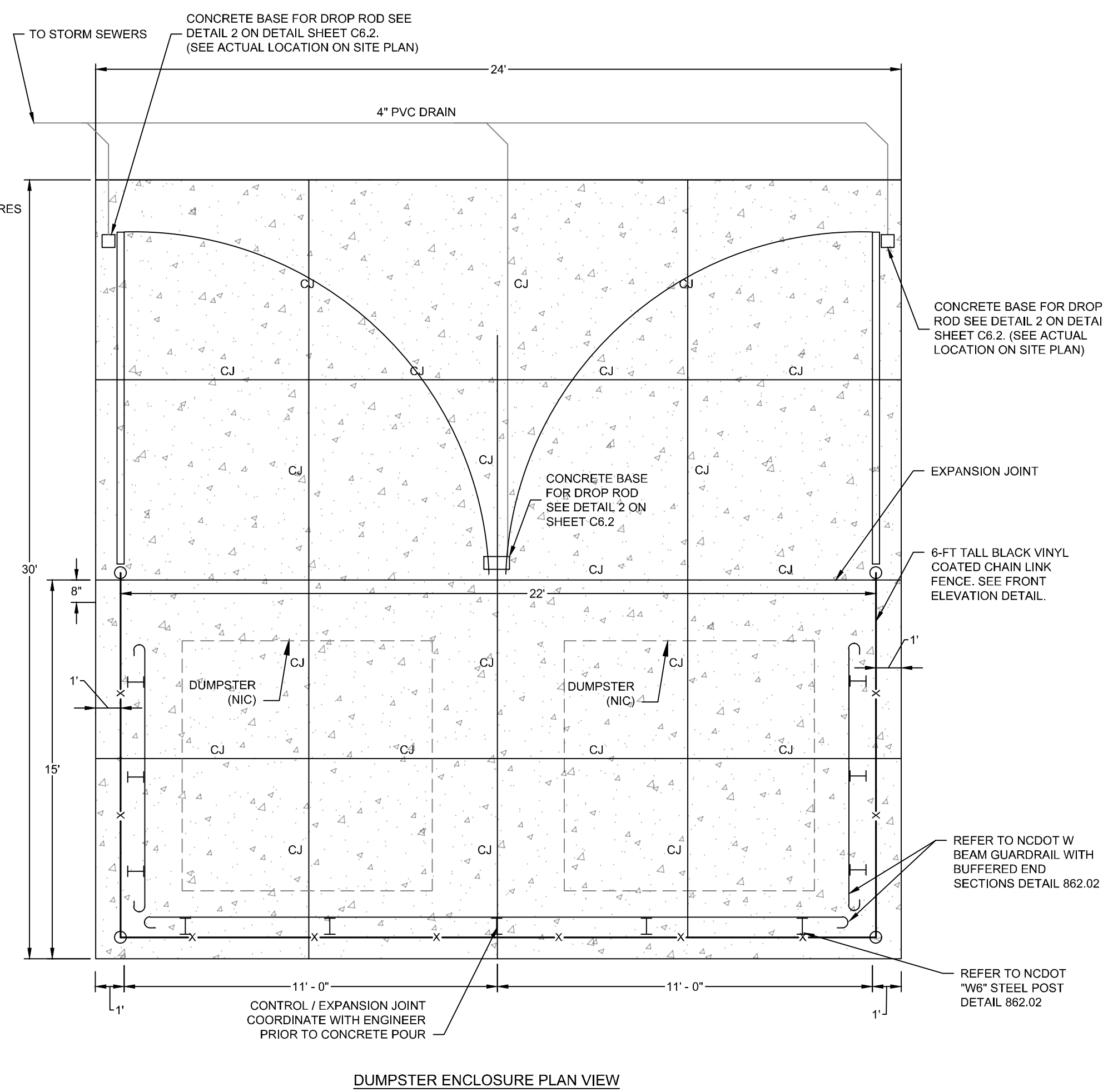
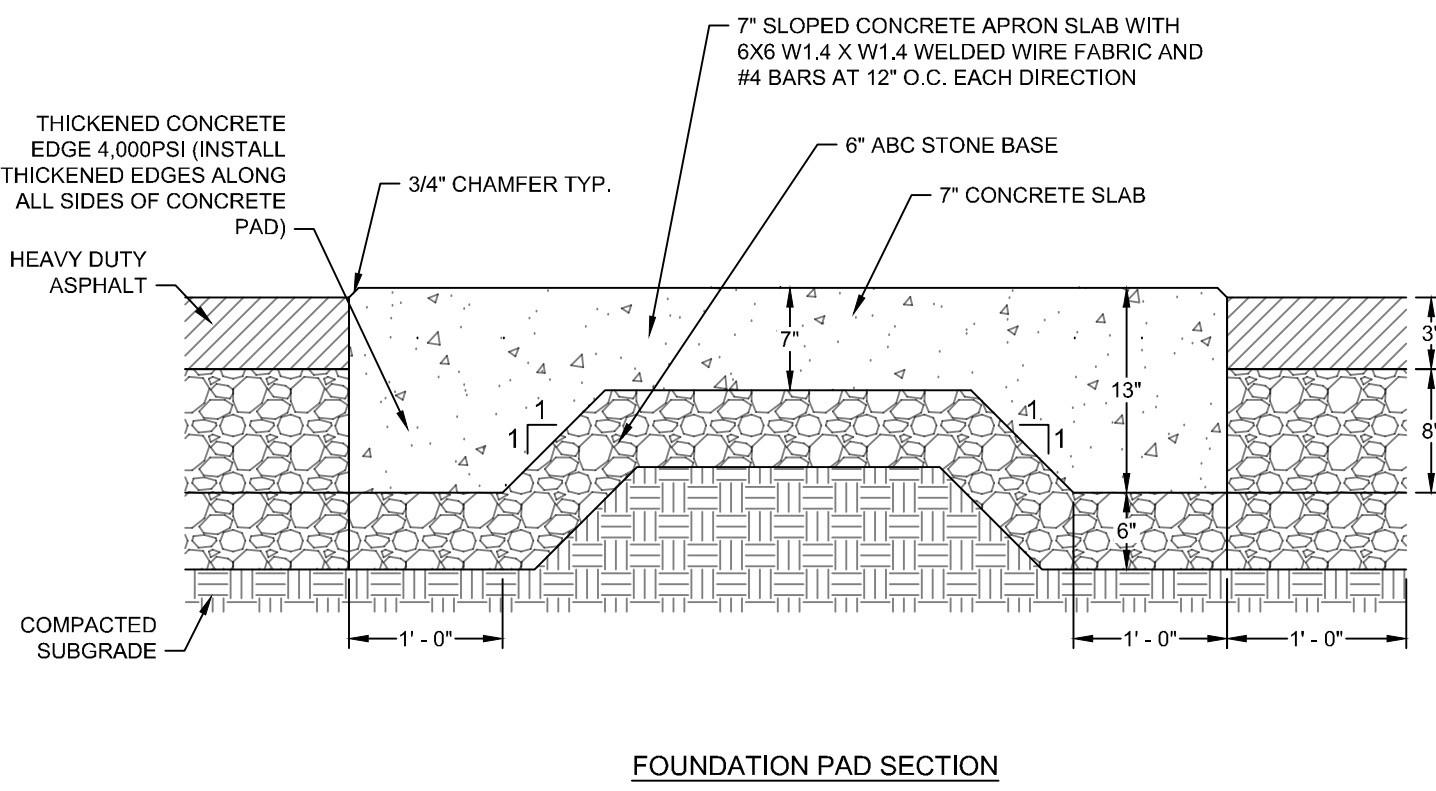
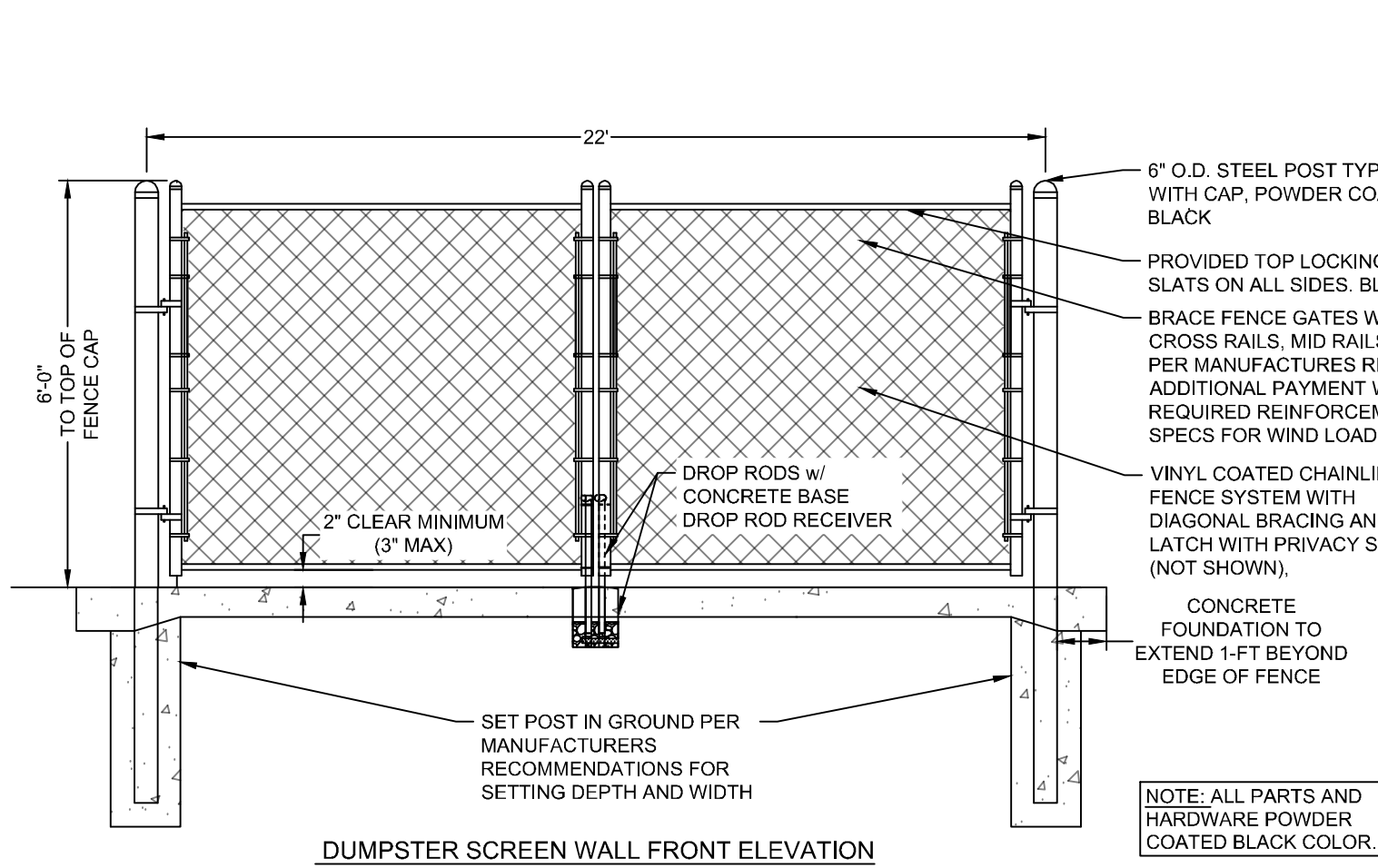
C6.0

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1

CHAIN LINK FENCE TO BERM

N.T.S.

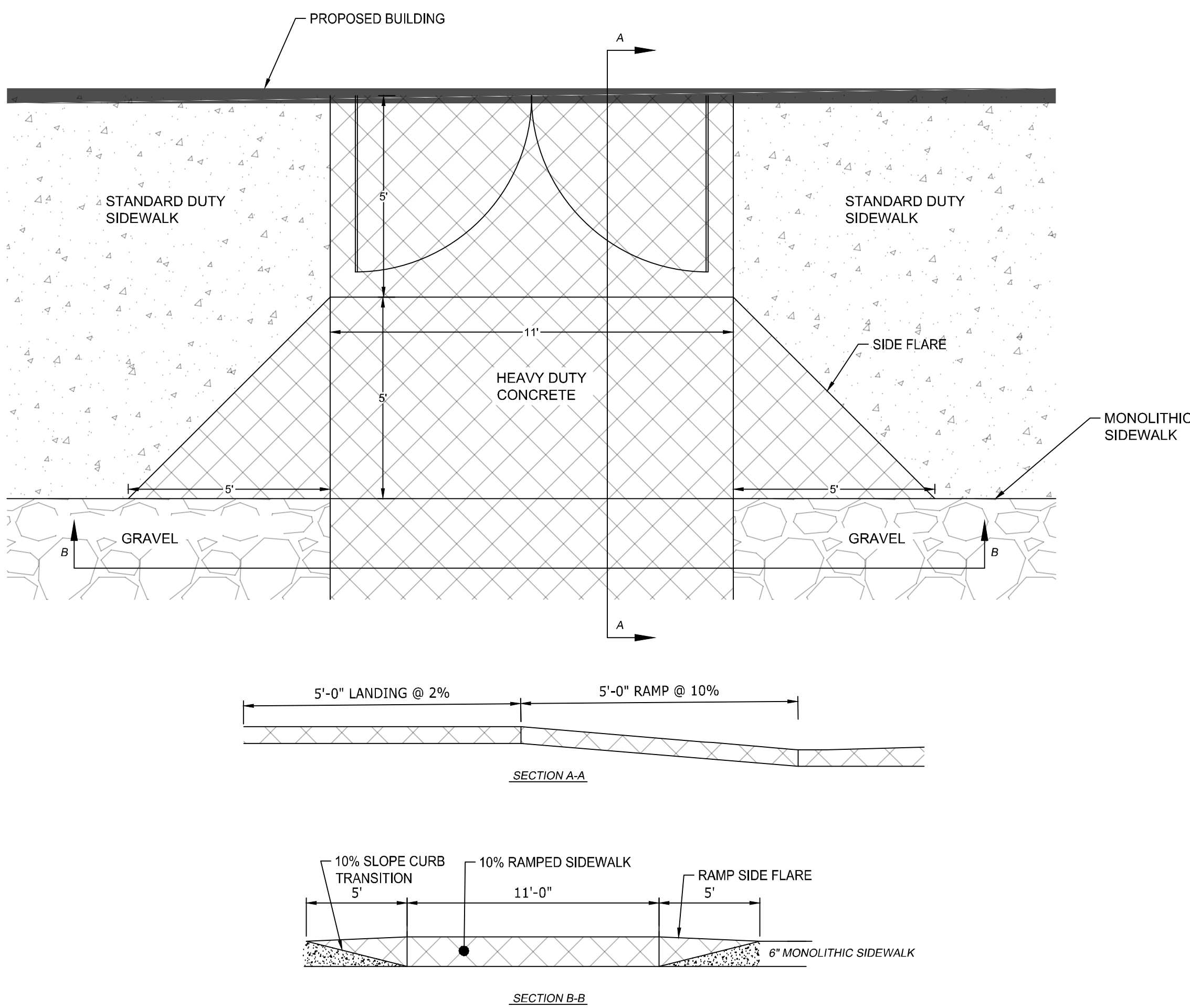


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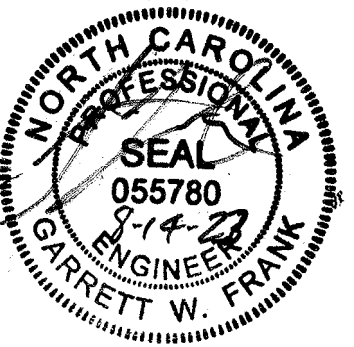
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DRIVEWAY APRON (ALT #1)

N.T.S.



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C6.1

1

CHAINLINK FENCE

N.T.S.

2

FENCE GATE DROP ROD ASSEMBLY

N.T.S.

3

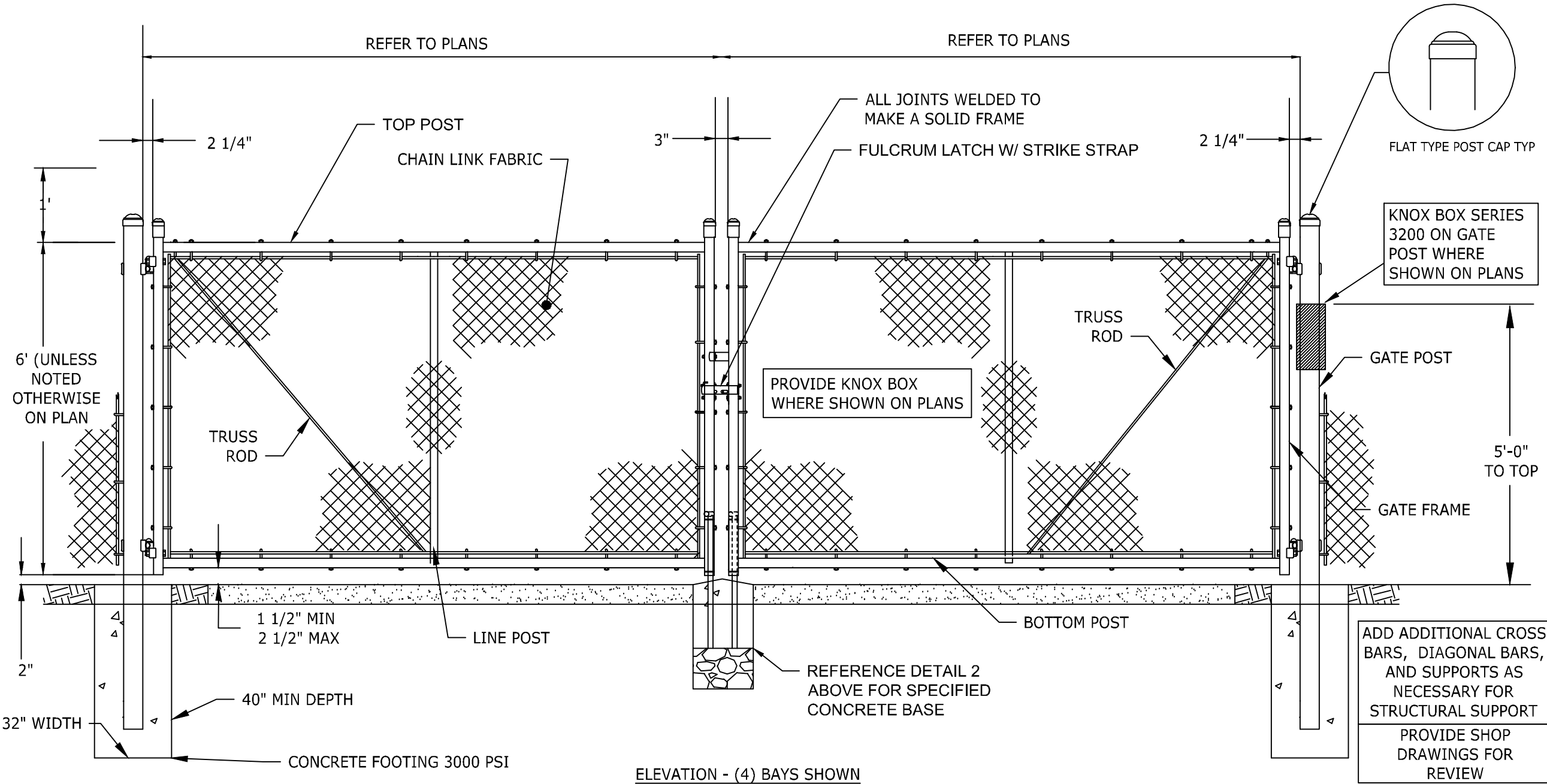
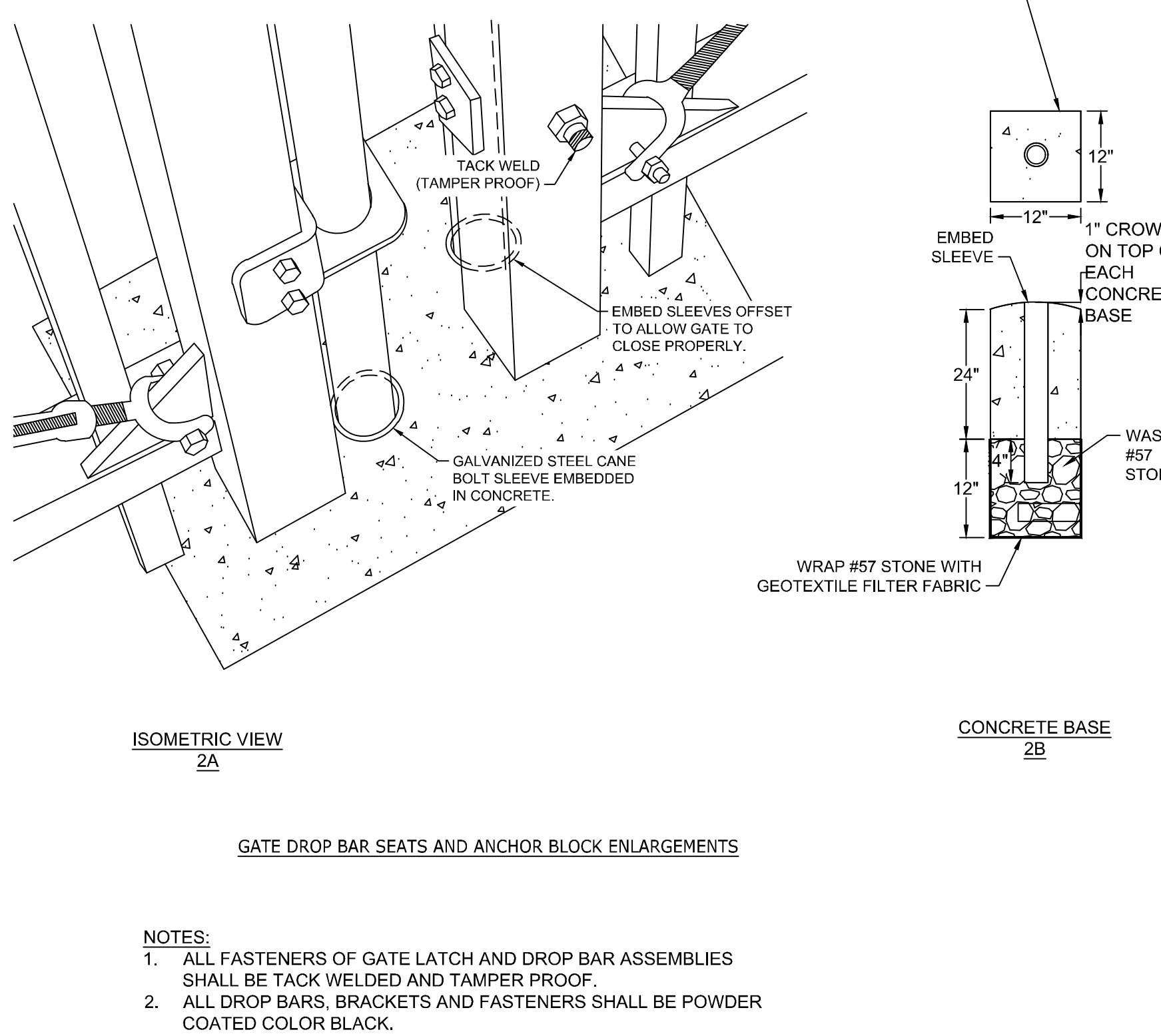
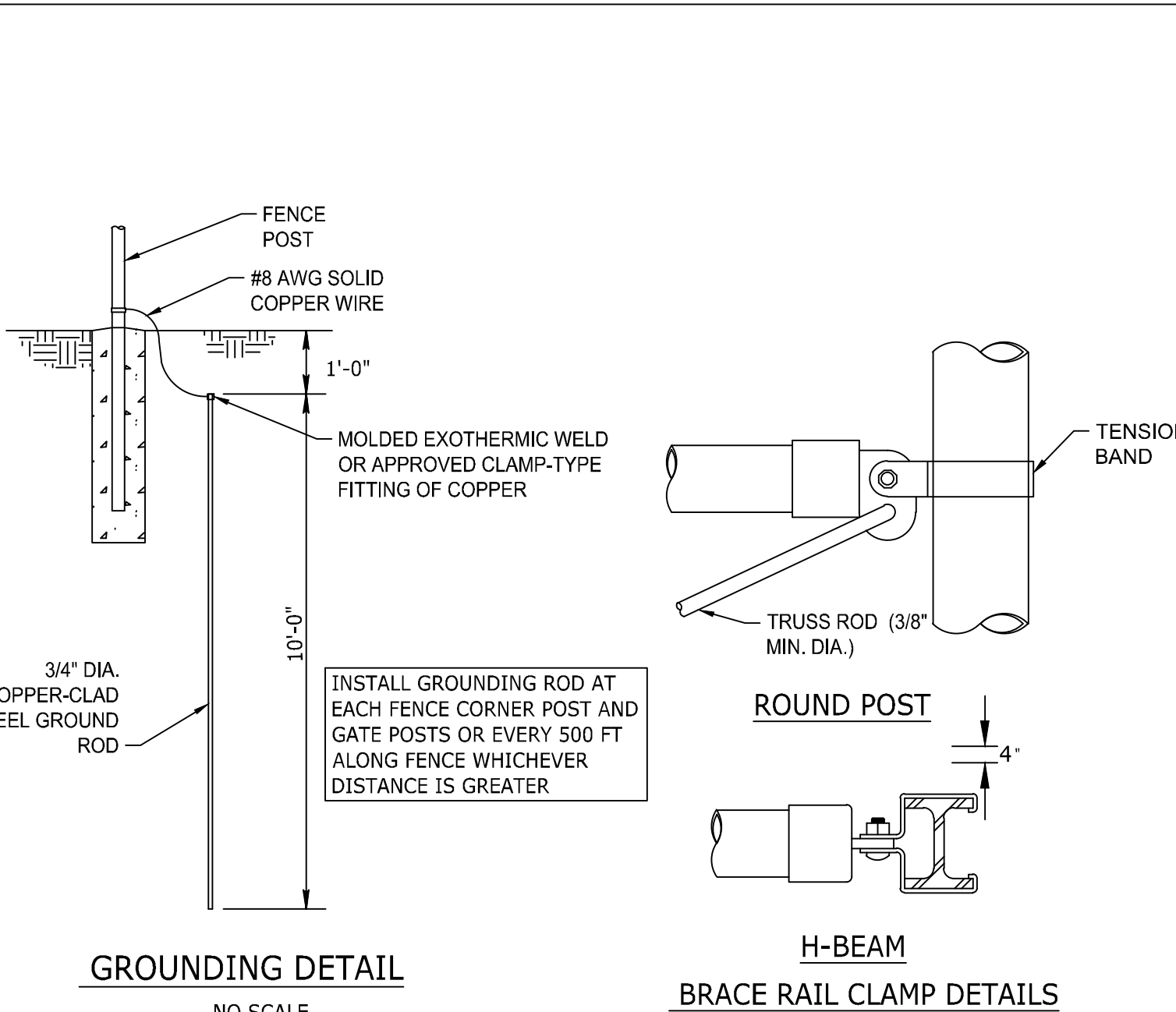
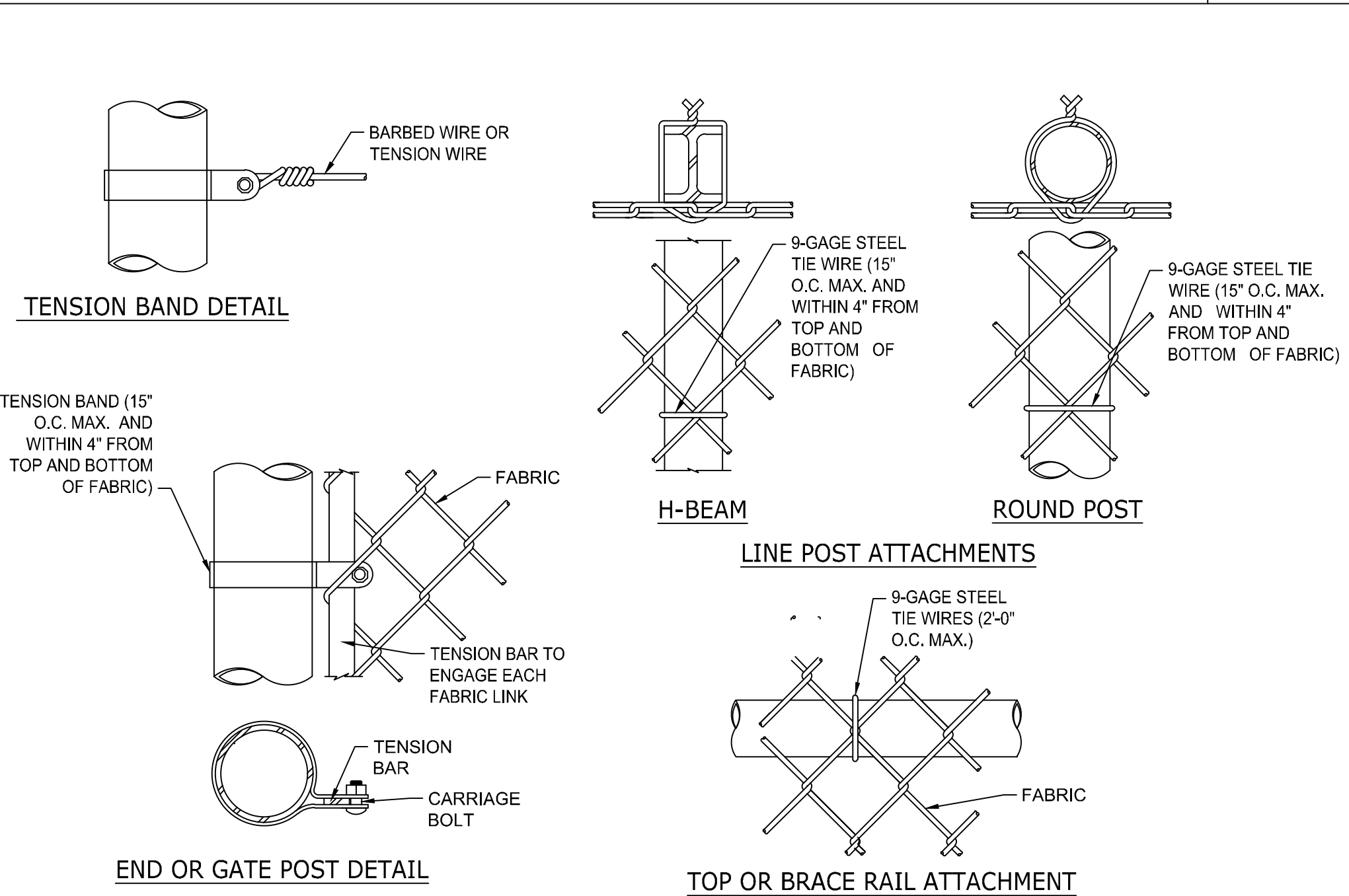
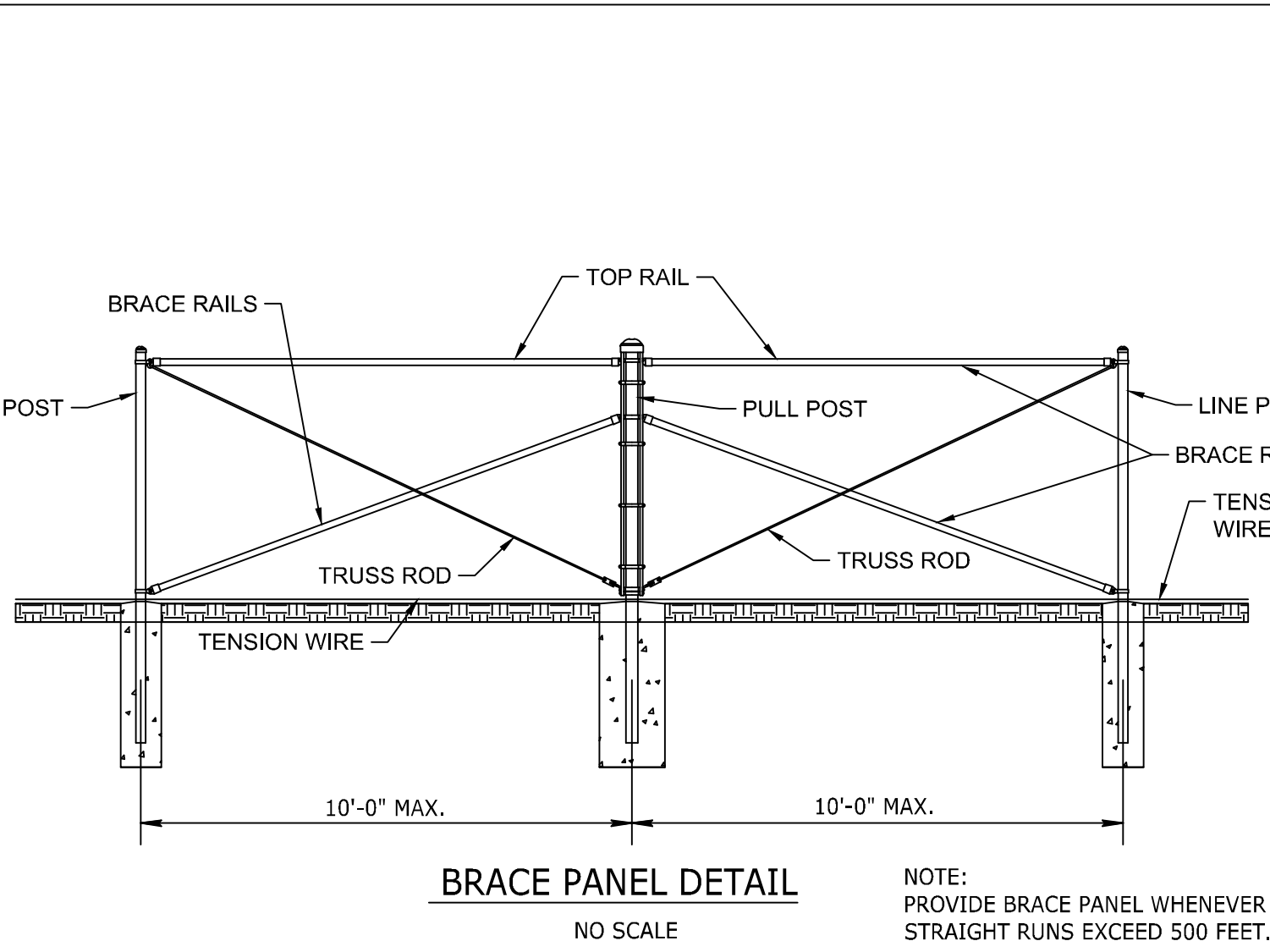
CHAINLINK FENCE GATE

N.T.S.

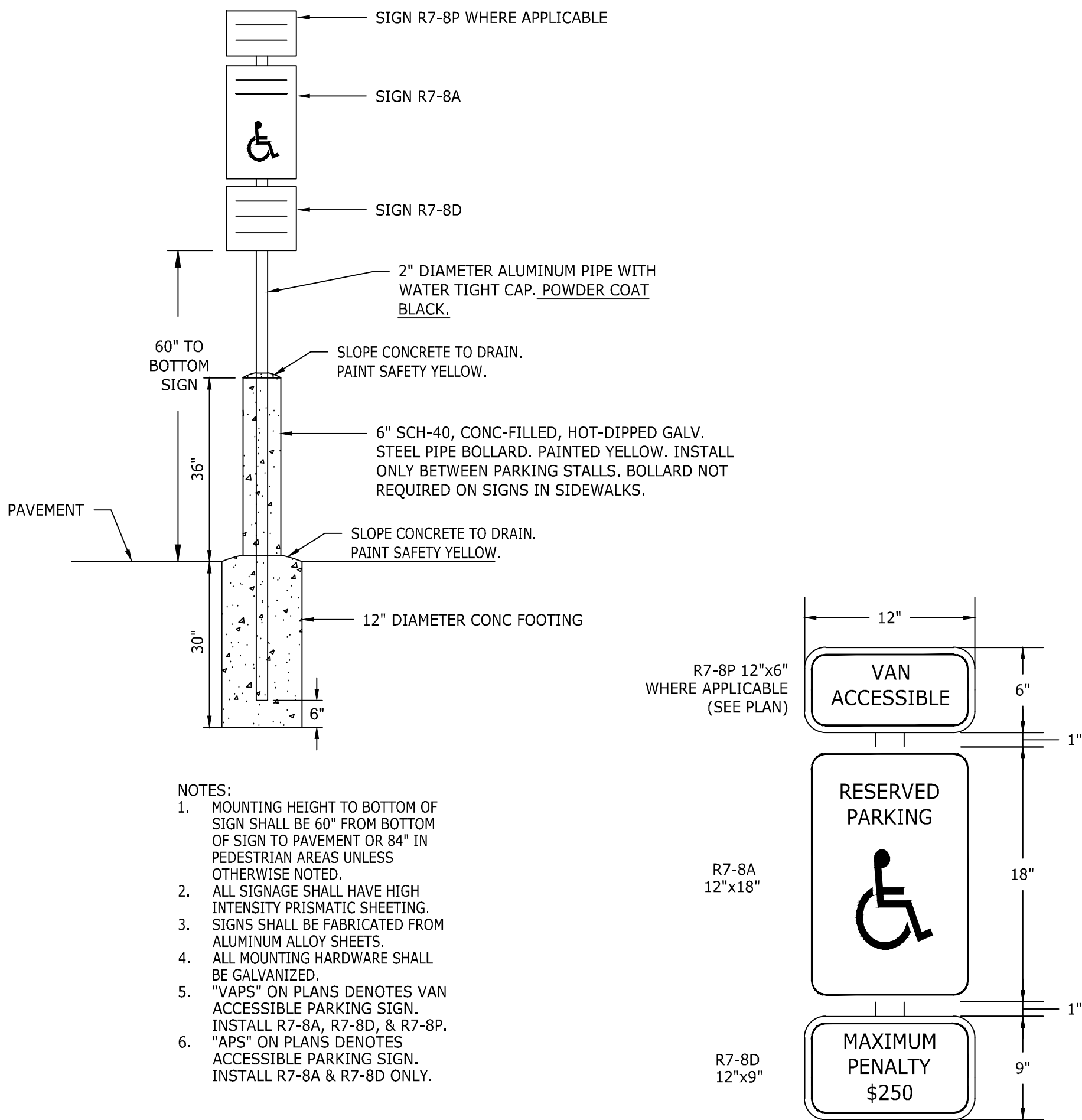
4

ACCESSIBLE PARKING SIGN

N.T.S.



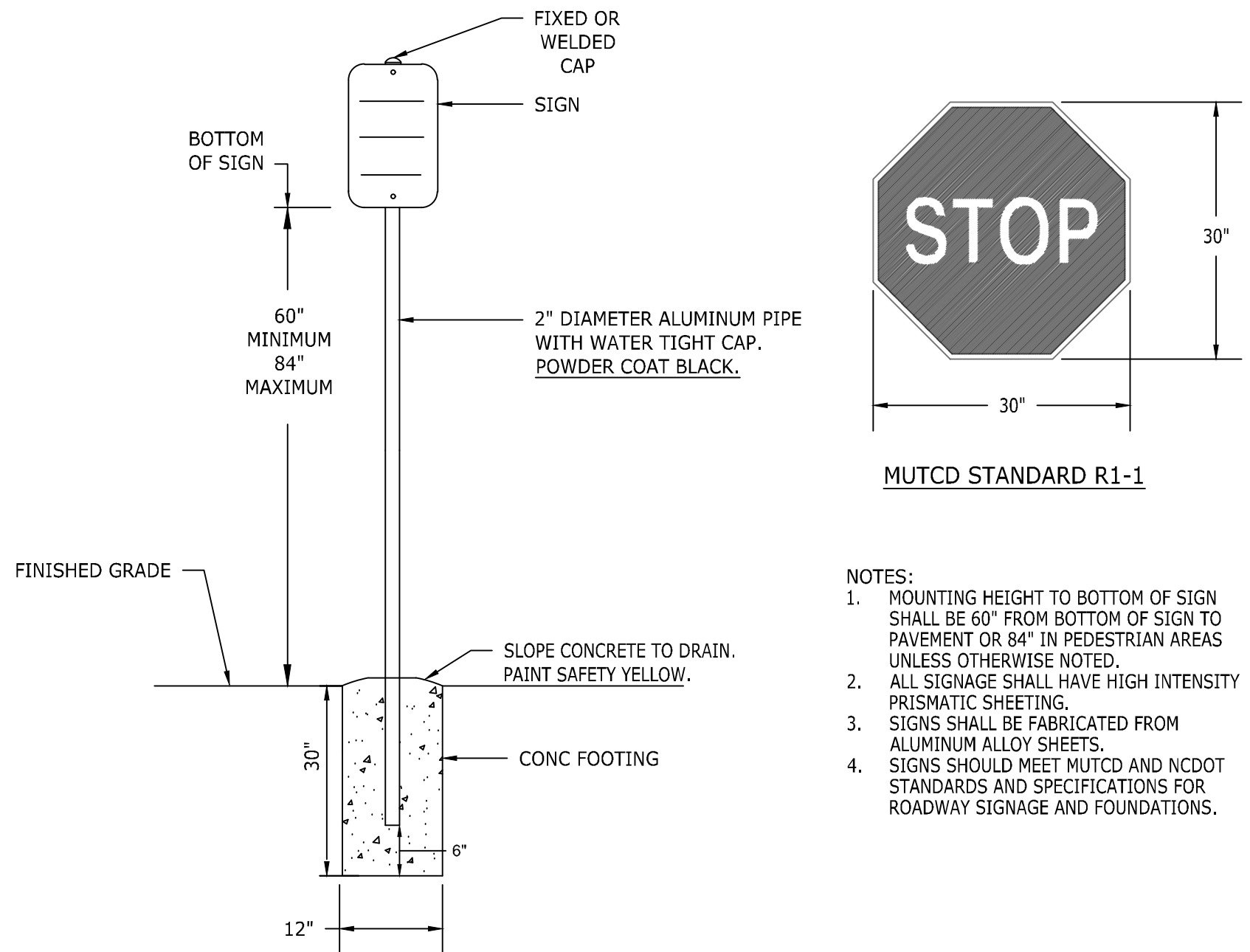
- NOTES:
- SPECIFICATIONS SHOWN CAN BE CHANGED BY THE MANUFACTURER ONLY. ADDITIONAL BRACING OR FOOTING DEPTH OR DIAMETER SHALL BE PROVIDED AS RECOMMENDED BY THE MANUFACTURER AT NO ADDITIONAL COST.
 - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW. ANY BUILDING PERMITTING REQUIRED BY HARNETT COUNTY SHALL BE HANDLED BY THE CONTRACTOR.
 - FENCE FABRIC SHALL BE GALVANIZED OR BLACK VINYL COATED CHAIN LINK. ALL GATE PARTS AND FEATURES SHALL BE GALVANIZED OR BLACK POWDER COATED TO MEET SPECIFICATIONS.



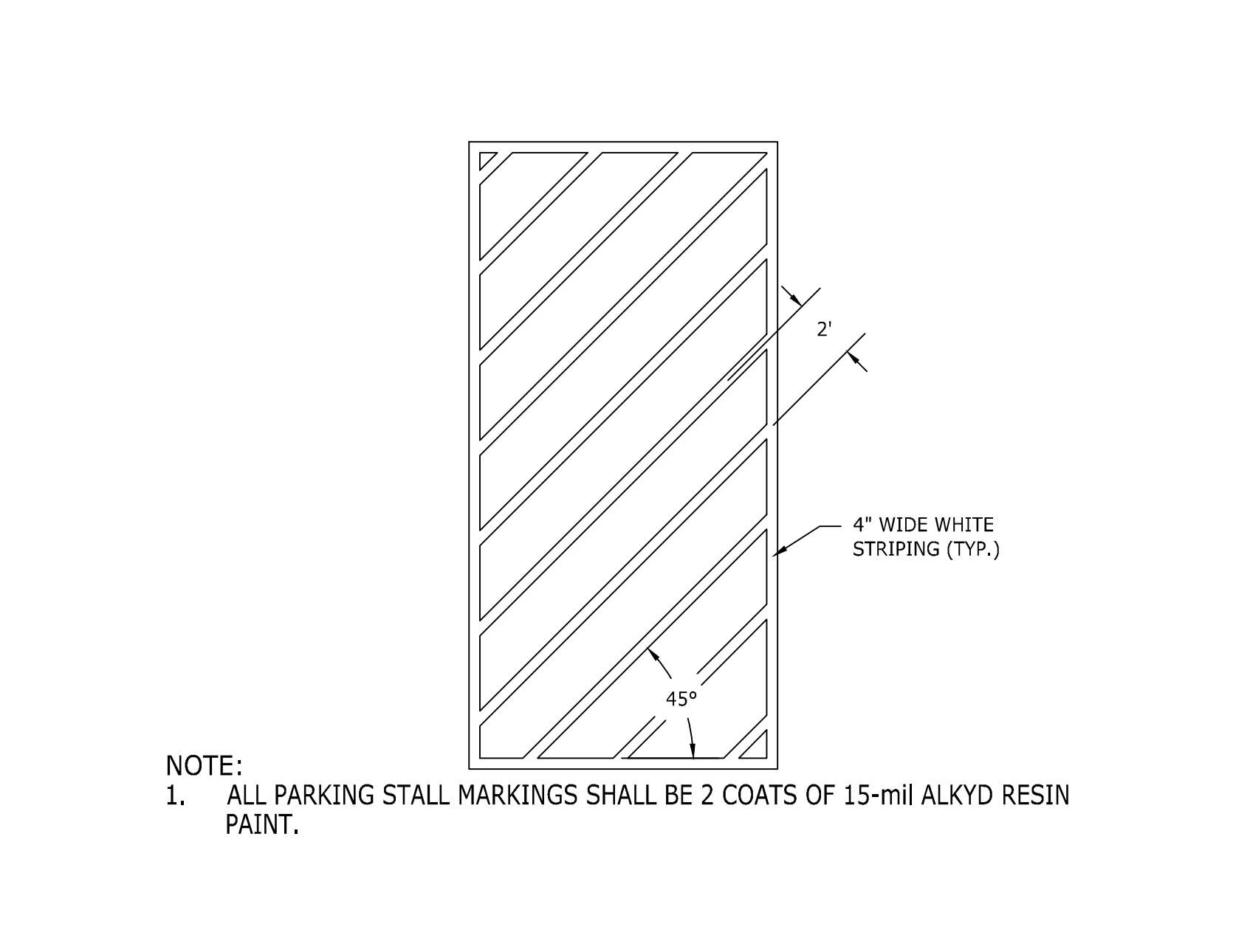
- NOTES:
- MOUNTING HEIGHT TO BOTTOM OF SIGN SHALL BE 60" FROM BOTTOM OF SIGN TO PAVEMENT OR 84" IN PEDESTRIAN AREAS UNLESS OTHERWISE NOTED.
 - ALL SIGNAGE SHALL HAVE HIGH INTENSITY PRISMATIC SHEETING.
 - SIGNS SHALL BE FABRICATED FROM ALUMINUM ALLOY SHEETS.
 - ALL MOUNTING HARDWARE SHALL BE GALVANIZED.
 - "VAPS" ON PLANS DENOTES VAN ACCESSIBLE PARKING SIGN. INSTALL R7-8A, R7-8D, & R7-8P.
 - "APS" ON PLANS DENOTES ACCESSIBLE PARKING SIGN. INSTALL R7-8A & R7-8D ONLY.



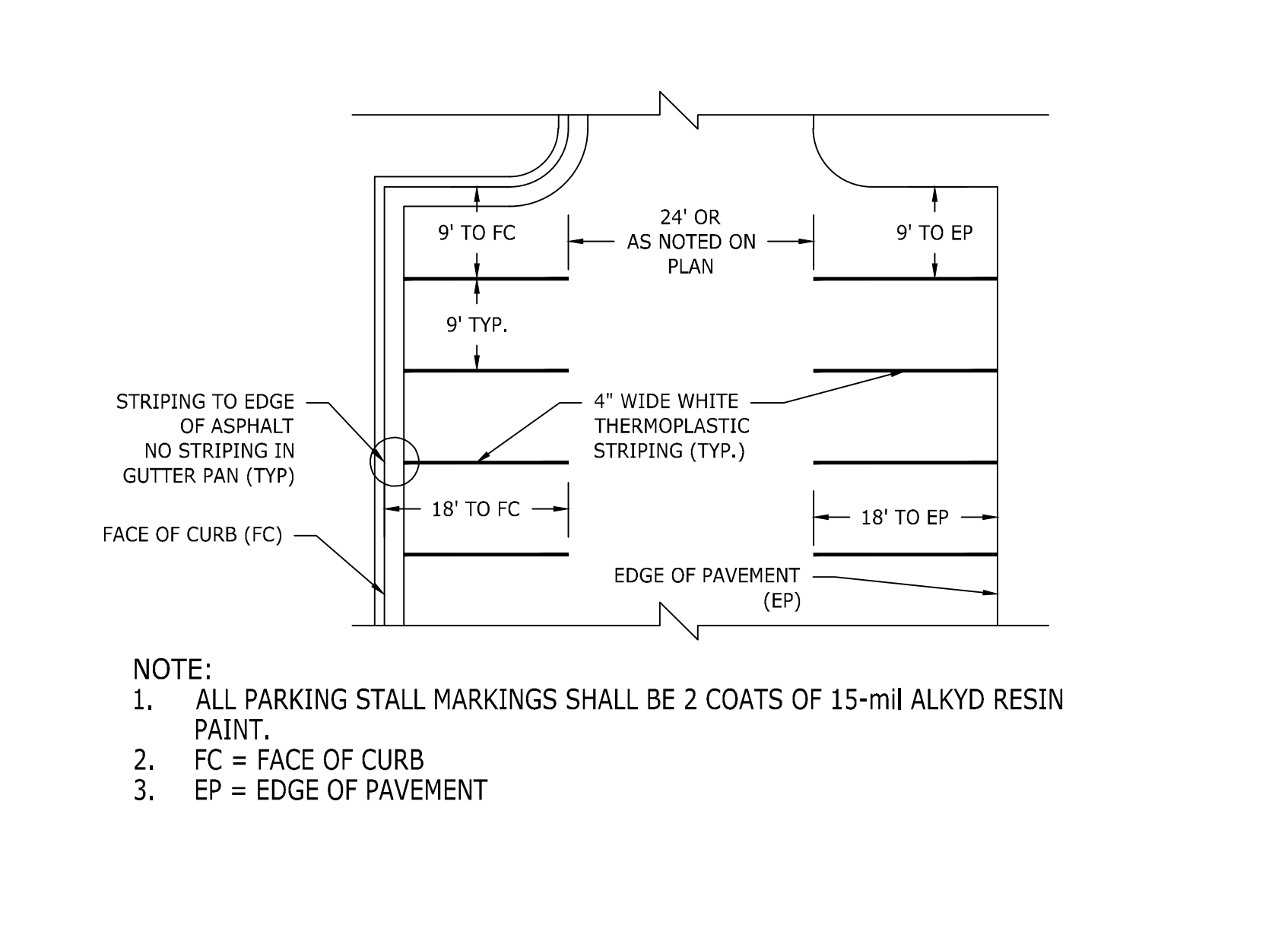
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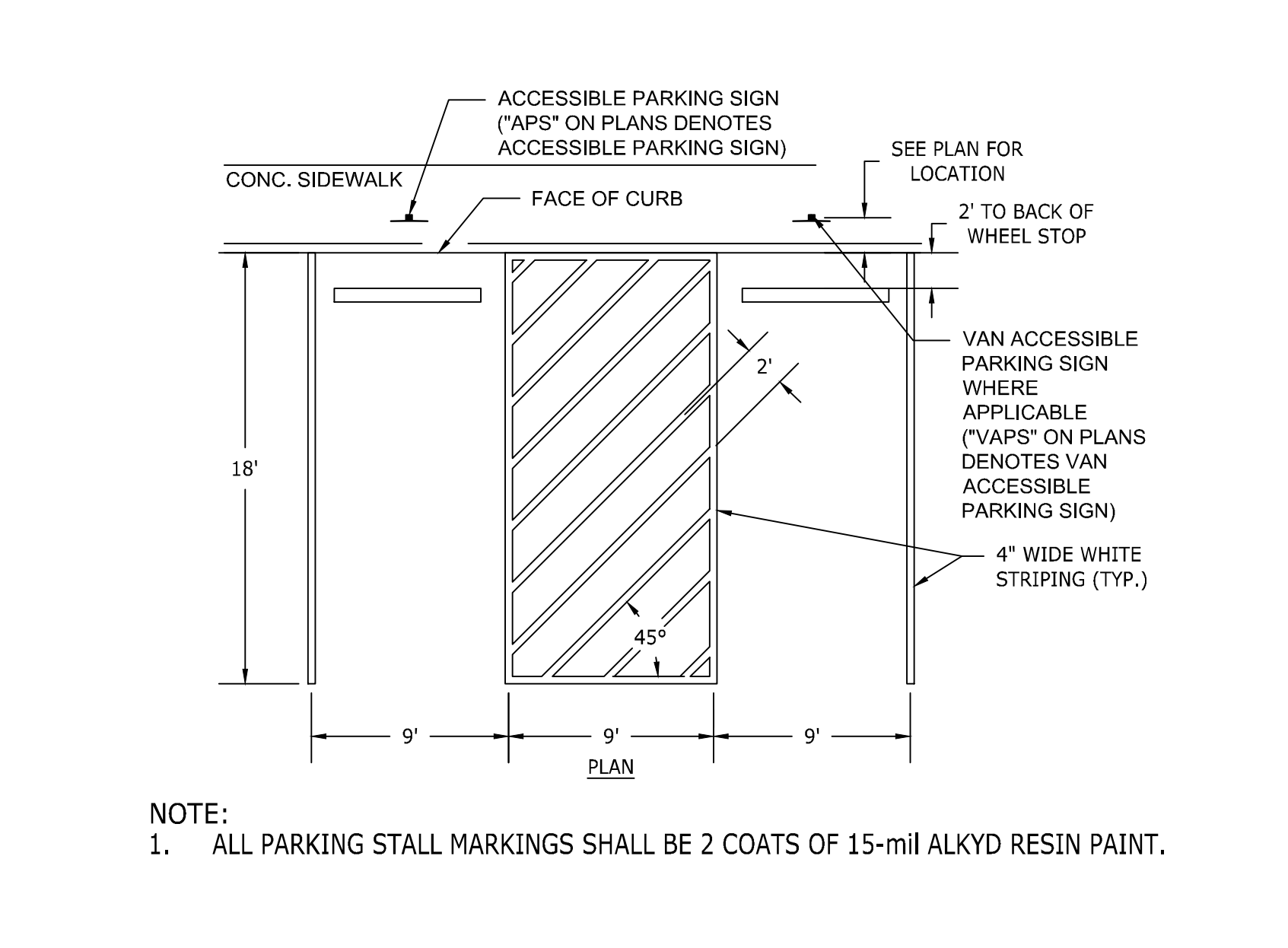
1 TYPICAL ROADWAY SIGN N.T.S.



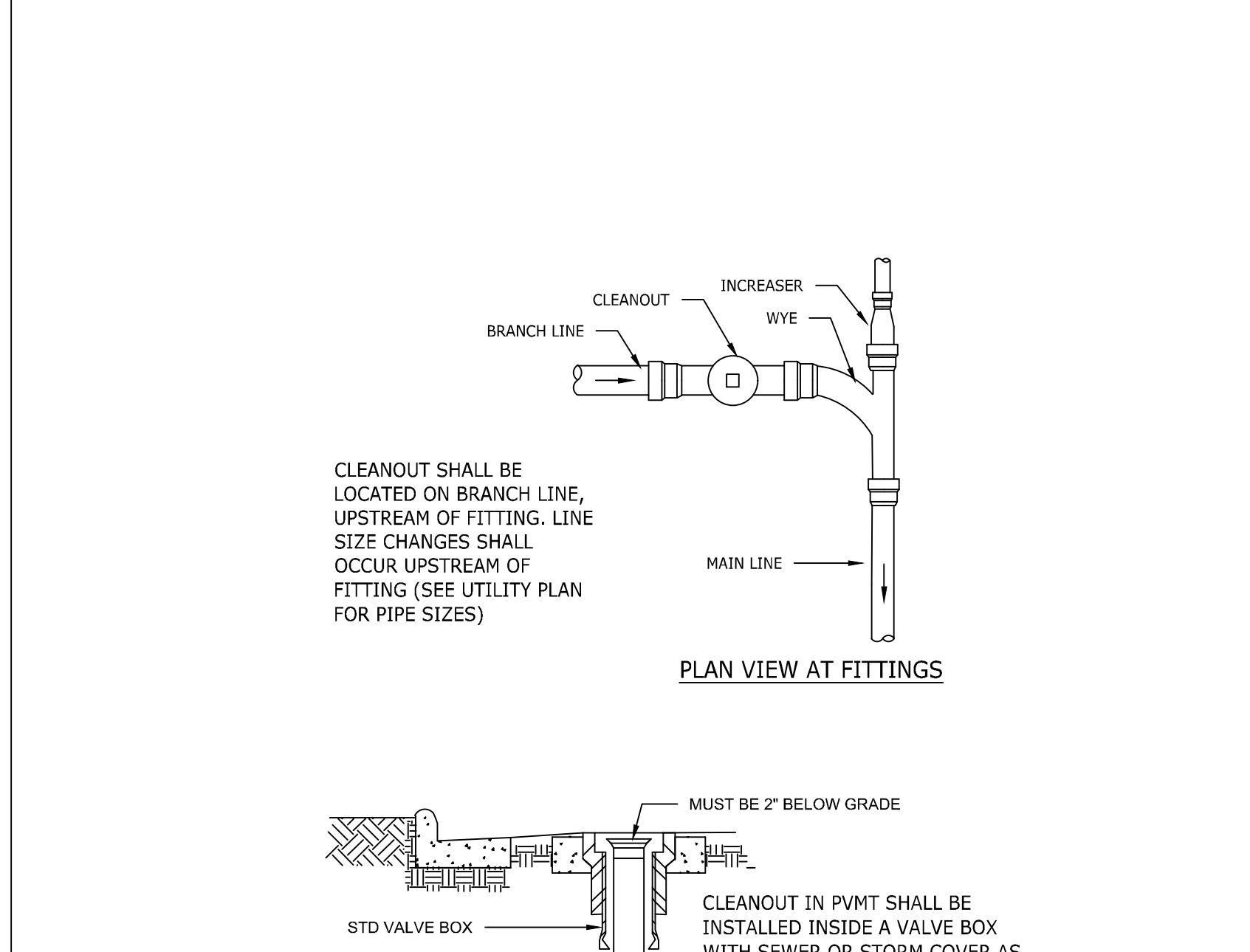
2 DIAGONAL STRIPING N.T.S.



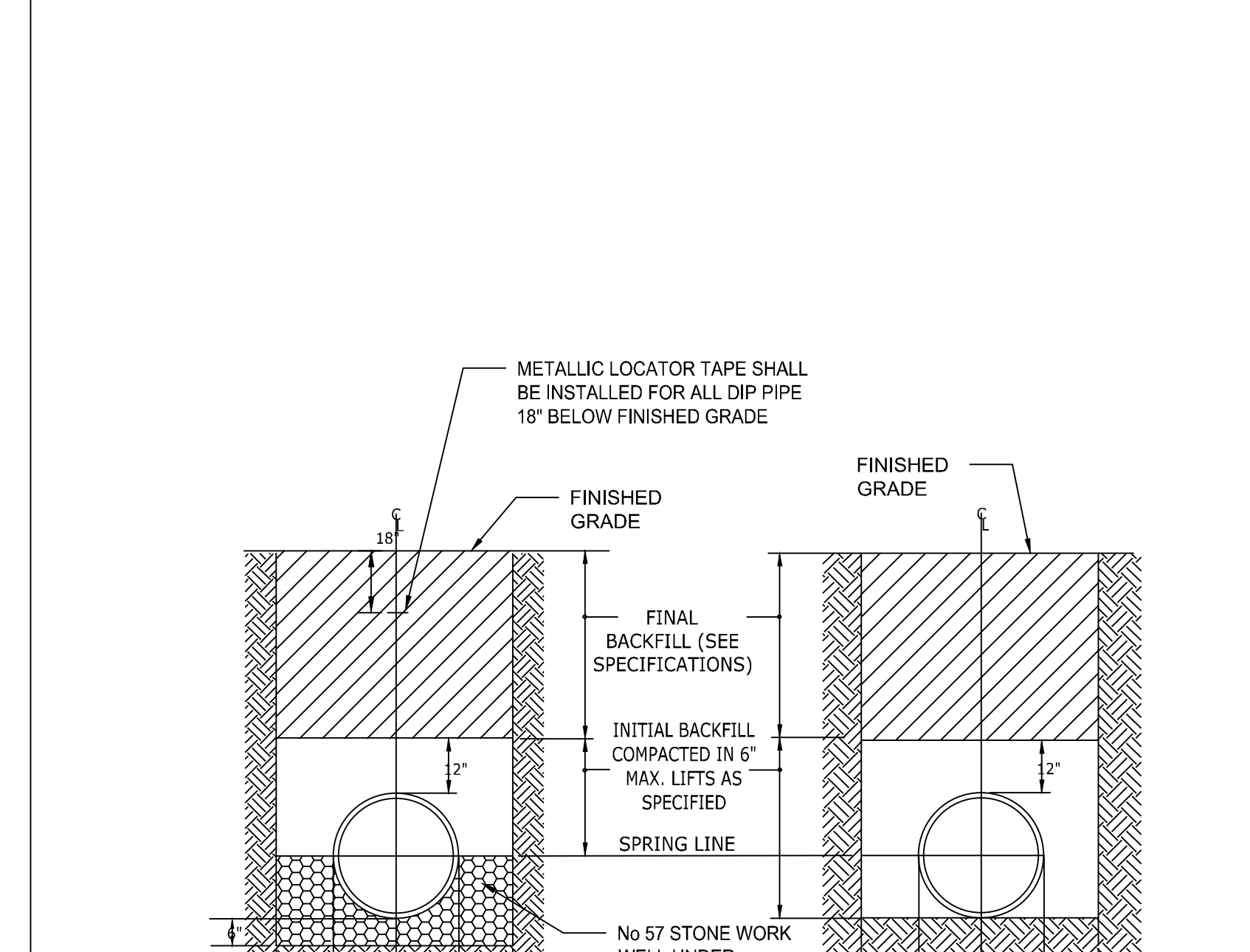
3 PARKING STALL AND TRAFFIC STRIPE N.T.S.



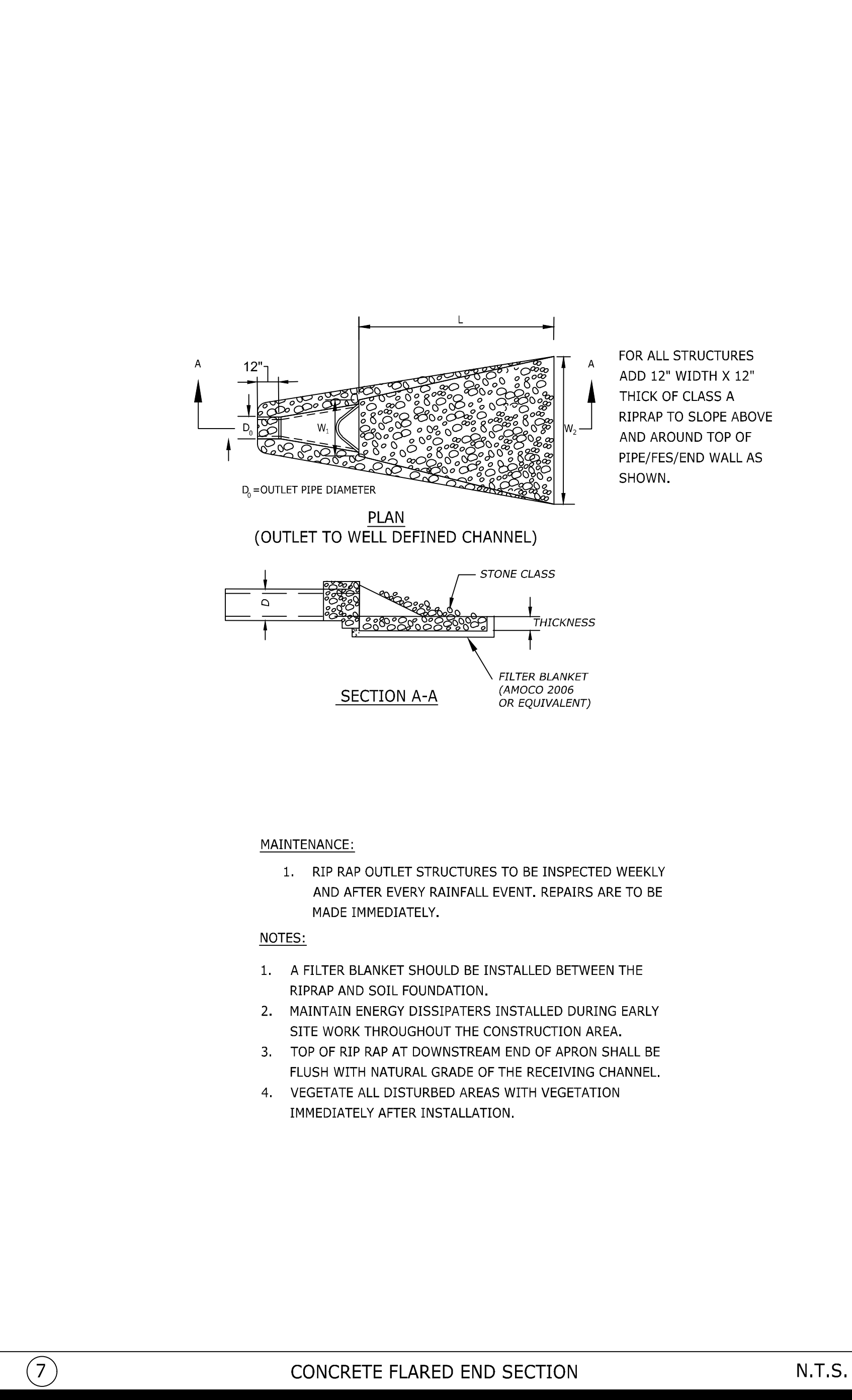
4 ACCESSIBLE PARKING SPACE LAYOUT N.T.S.



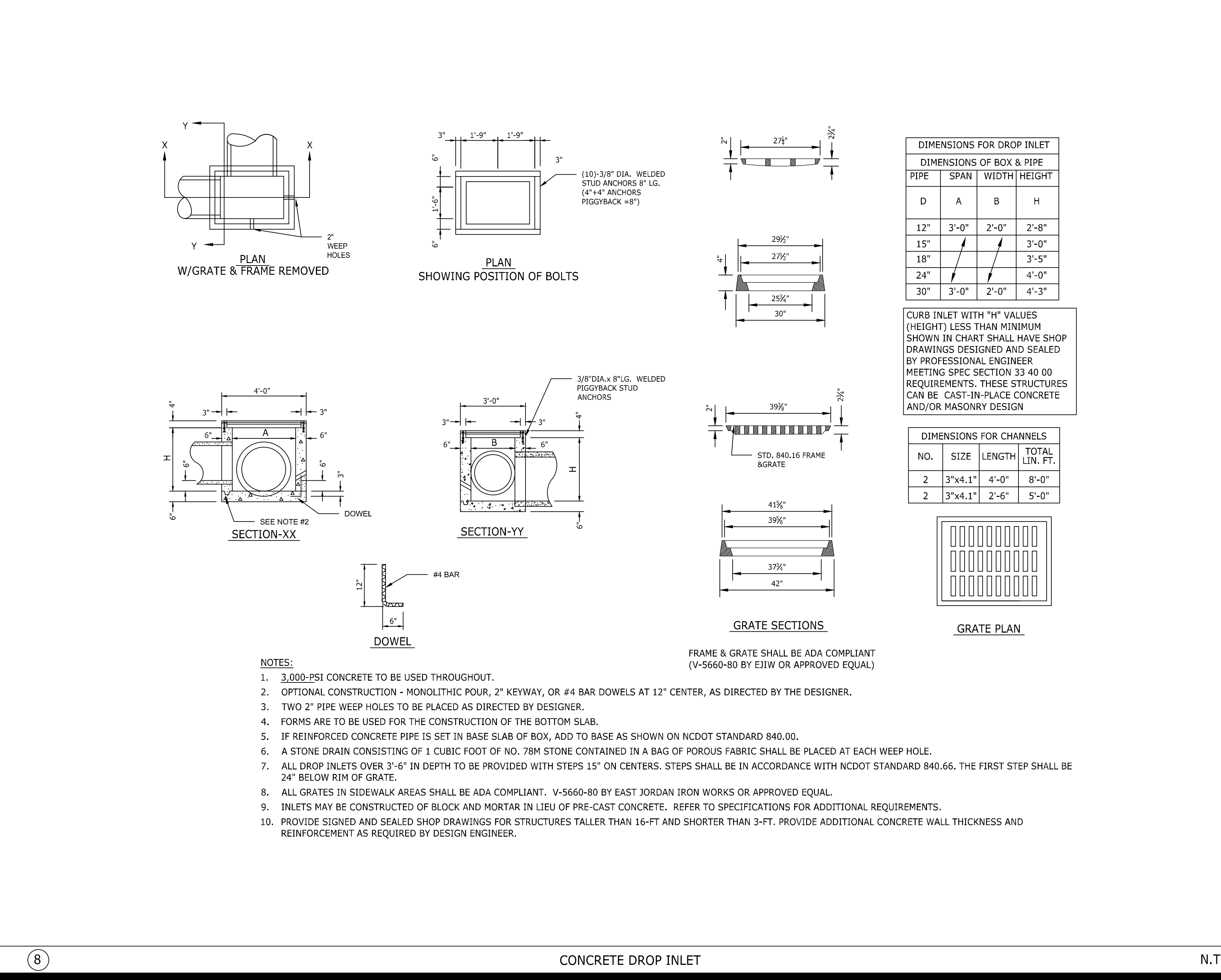
5 STANDARD CLEANOUT N.T.S.



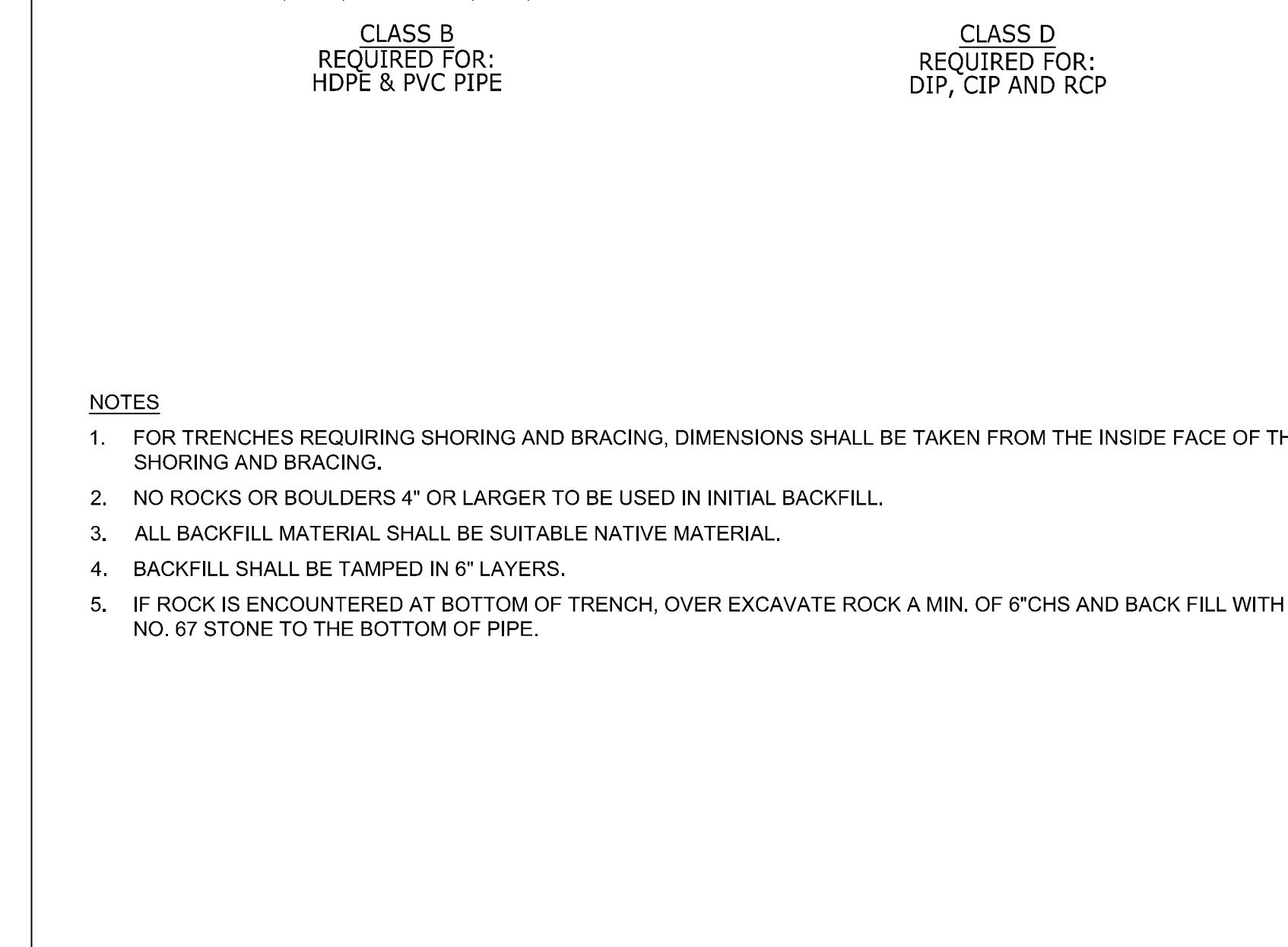
6 STORM SEWER BEDDING N.T.S.



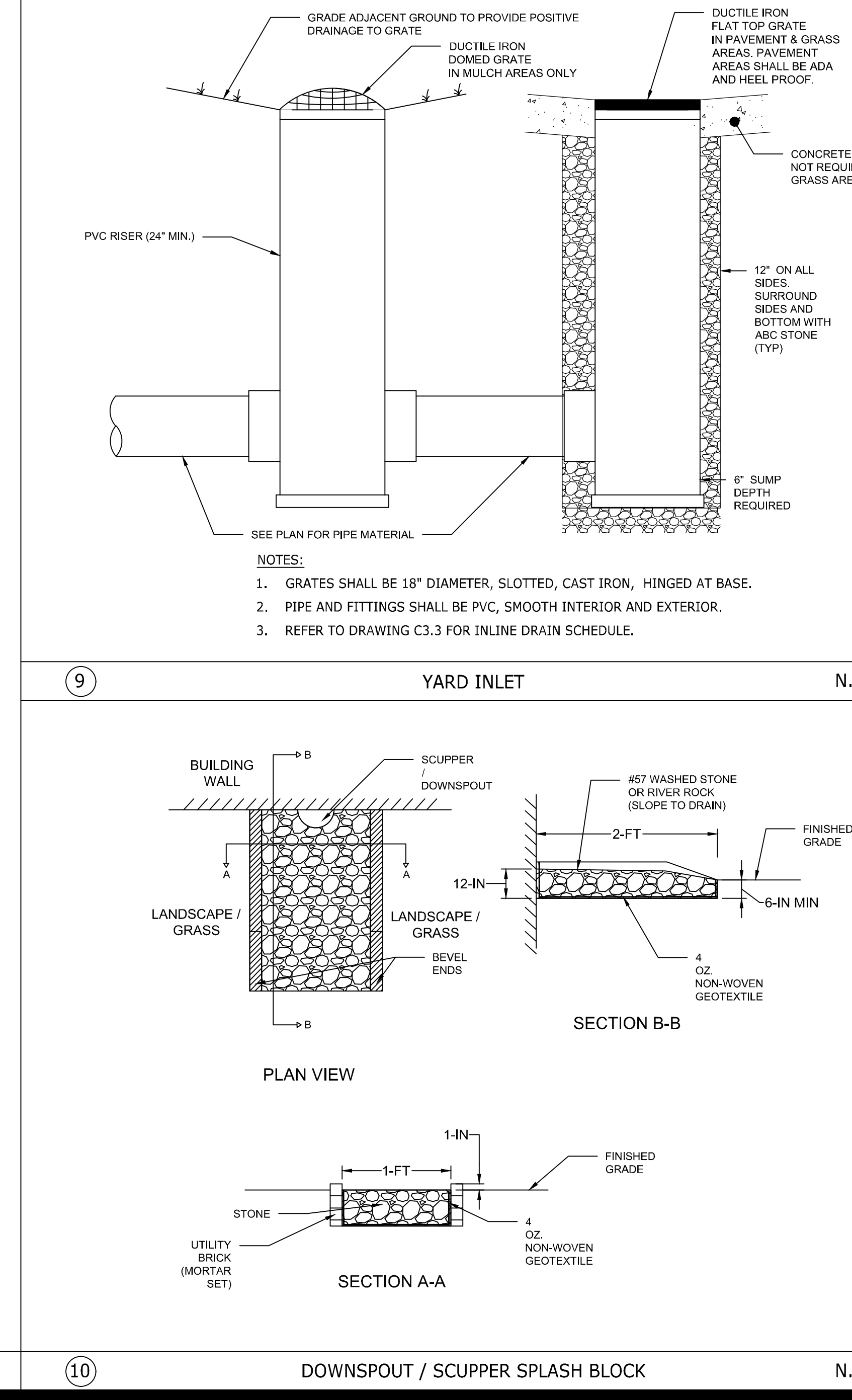
7 CONCRETE FLARED END SECTION N.T.S.



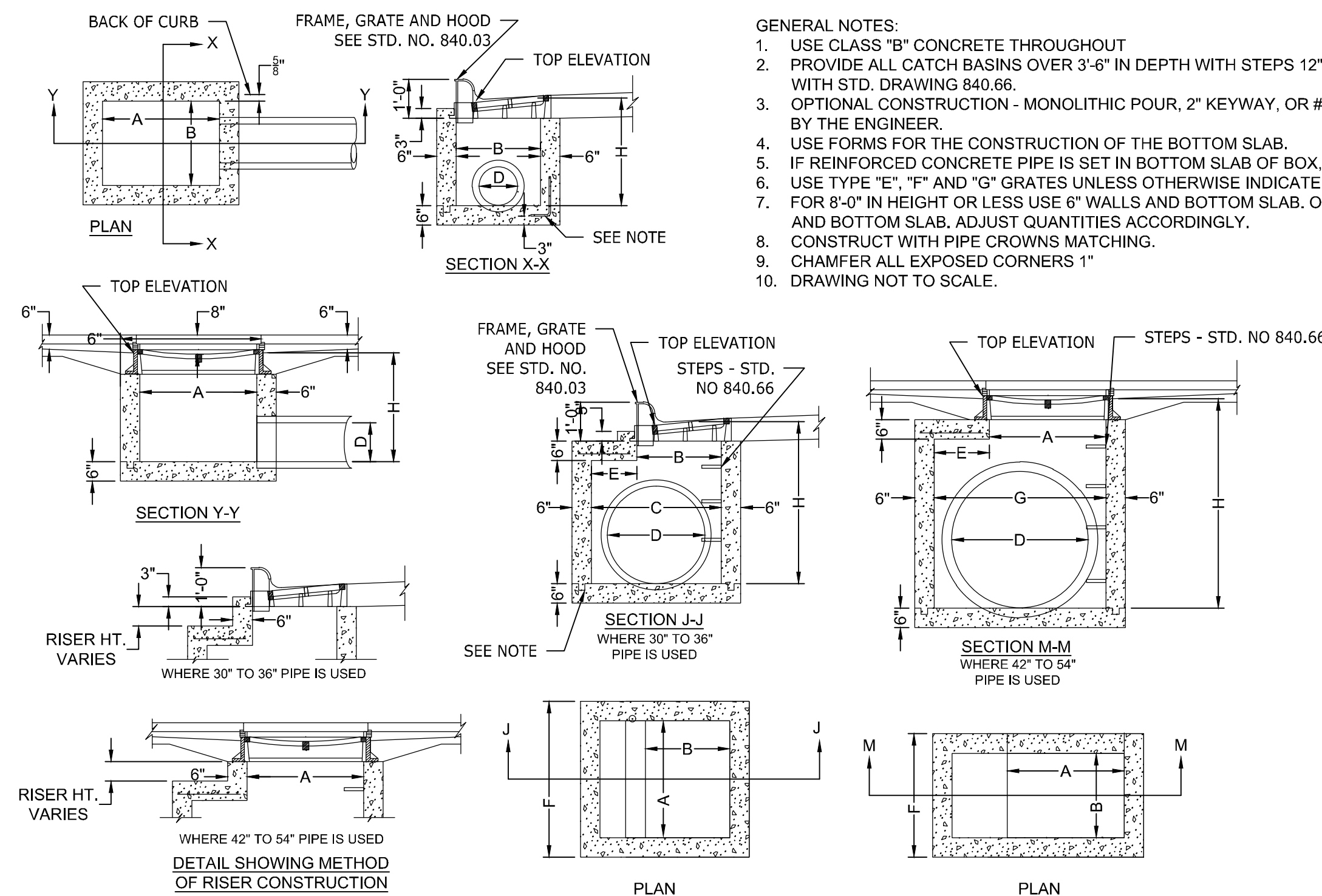
8 CONCRETE DROP INLET N.T.S.



9 YARD INLET N.T.S.



10 DOWNSPOUT / SCUPPER SPLASH BLOCK N.T.S.



GENERAL NOTES:

1. USE CLASS "B" CONCRETE THROUGHOUT
2. PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.
3. OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.
4. USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.
5. IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.
6. USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.
7. FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.
8. CONSTRUCT WITH PIPE CROWNS MATCHING.
9. CHAMFER ALL EXPOSED CORNERS 1"
10. DRAWING NOT TO SCALE.

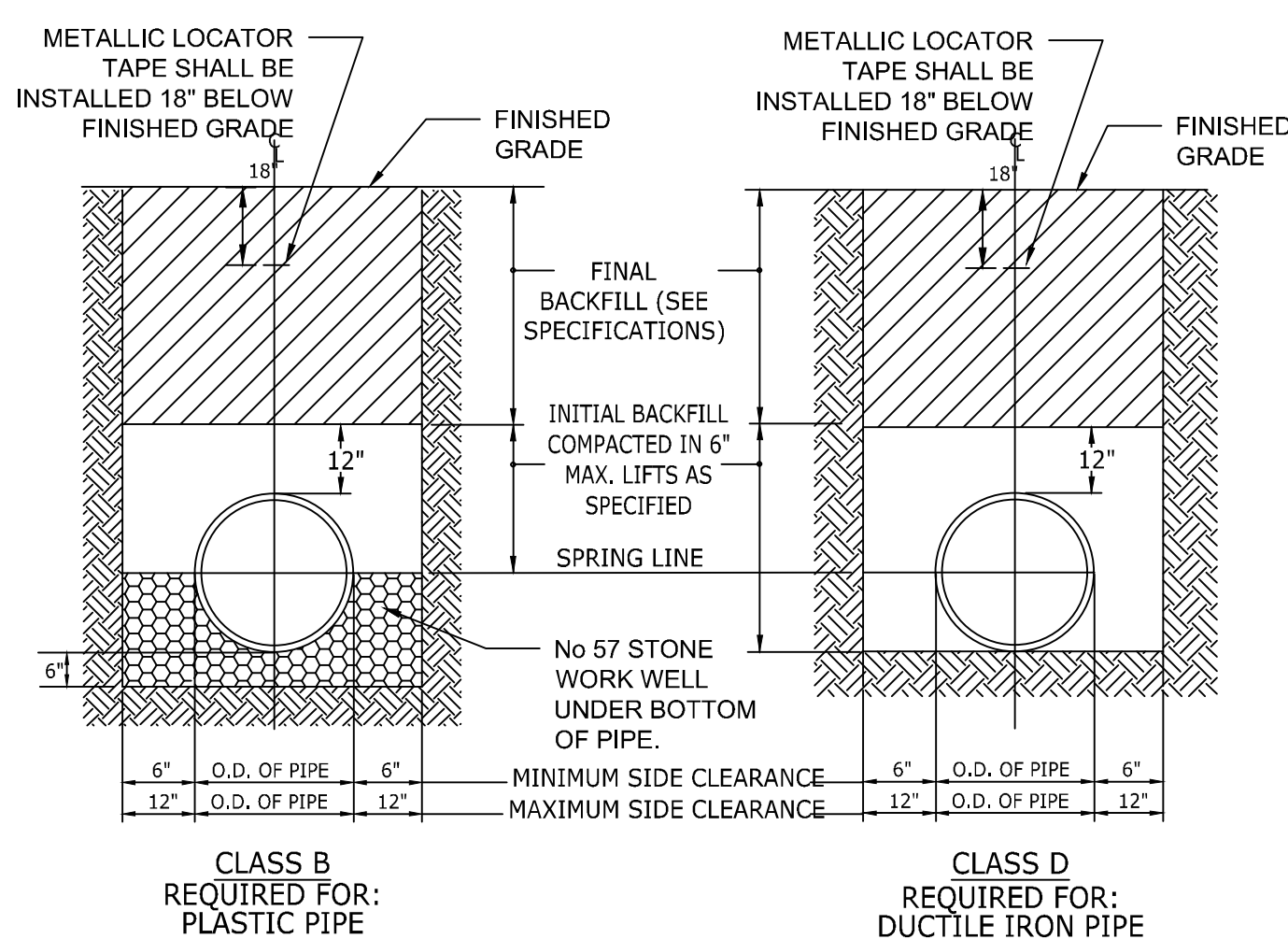
MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN (BASED ON MIN. HEIGHT, H, WITH NO RISER) *																			
DIMENSIONS OF BOX AND PIPE										COVER									
PIPE	SPAN	WIDTH	SPAN	MIN. HEIGHT	COVER	BAR	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.
12"	3'-0"	2'-2"	2'-2"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"	2'-9"
15"	3'-0"	2'-2"	2'-2"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"	3'-0"
18"	3'-0"	2'-2"	2'-2"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"	3'-3"
24"	3'-0"	2'-2"	2'-2"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"	3'-9"
30"	3'-0"	2'-2"	3'-4"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"	4'-3"
36"	3'-0"	2'-2"	3'-10"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"	4'-9"
42"	3'-0"	2'-2"	4'-5"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"	5'-3"
48"	3'-0"	2'-2"	5'-0"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"	5'-9"
54"	3'-0"	2'-2"	5'-7"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"	6'-3"

CURB INLET WITH "H" VALUES (HEIGHT) LESS THAN MINIMUM SHOWN IN CHART SHALL HAVE SHOP DRAWINGS DESIGNED AND SEALED BY PROFESSIONAL ENGINEER MEETING SPEC SECTION 33 40 00 REQUIREMENTS. THESE STRUCTURES CAN BE CONCRETE AND/OR MASONRY DESIGN

①

CONCRETE CATCH BASIN

N.T.S.



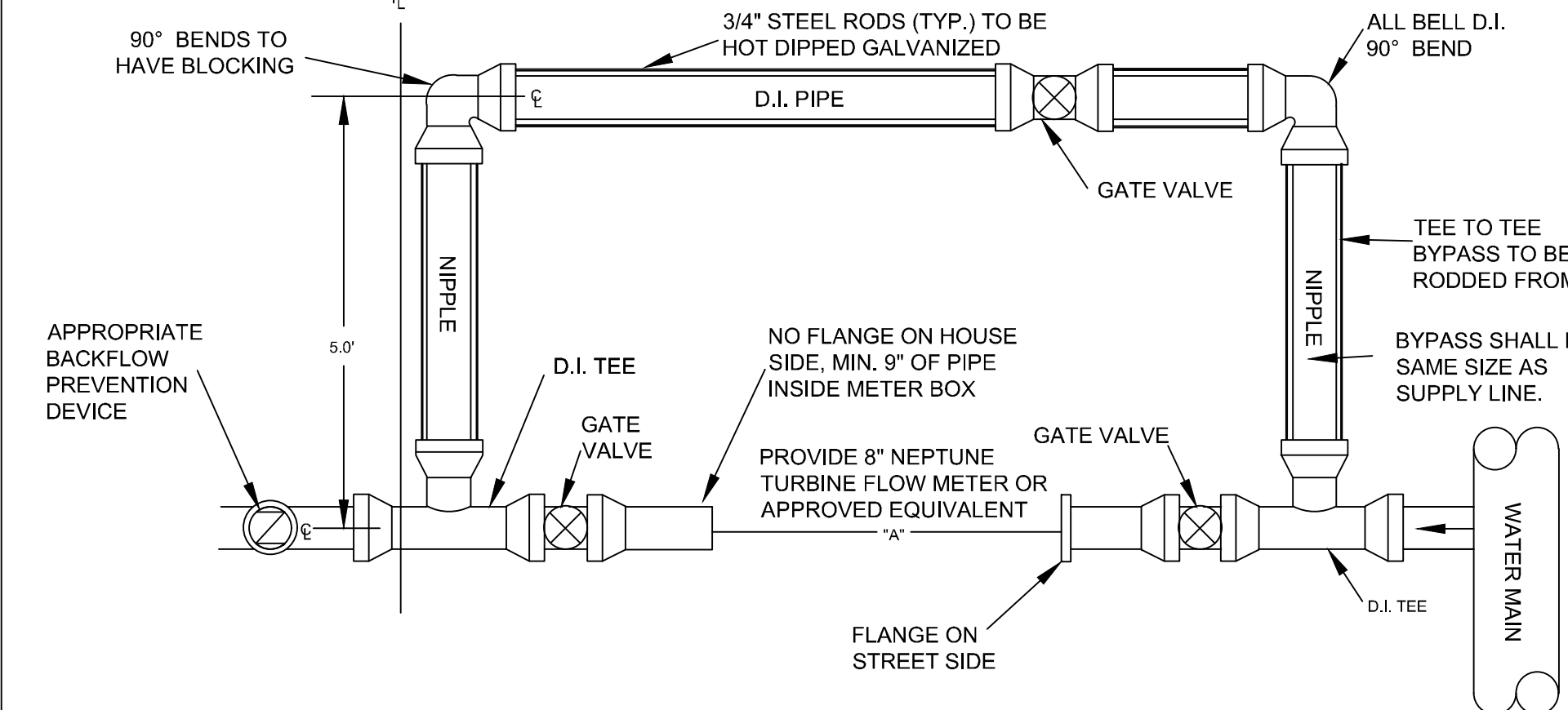
NOTES

1. FOR TRENCHES REQUIRING SHORING AND BRACING, DIMENSIONS SHALL BE TAKEN FROM THE INSIDE FACE OF THE SHORING AND BRACING.
2. NO ROCKS OR BOULDERS 4" OR LARGER TO BE USED IN INITIAL BACKFILL.
3. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL.
4. BACKFILL SHALL BE TAMPED IN 6" LAYERS.
5. IF ROCK IS ENCOUNTERED AT BOTTOM OF TRENCH, OVER EXCAVATE ROCK A MIN. OF 6" AND BACK FILL WITH NO. 67 STONE TO THE BOTTOM OF PIPE.

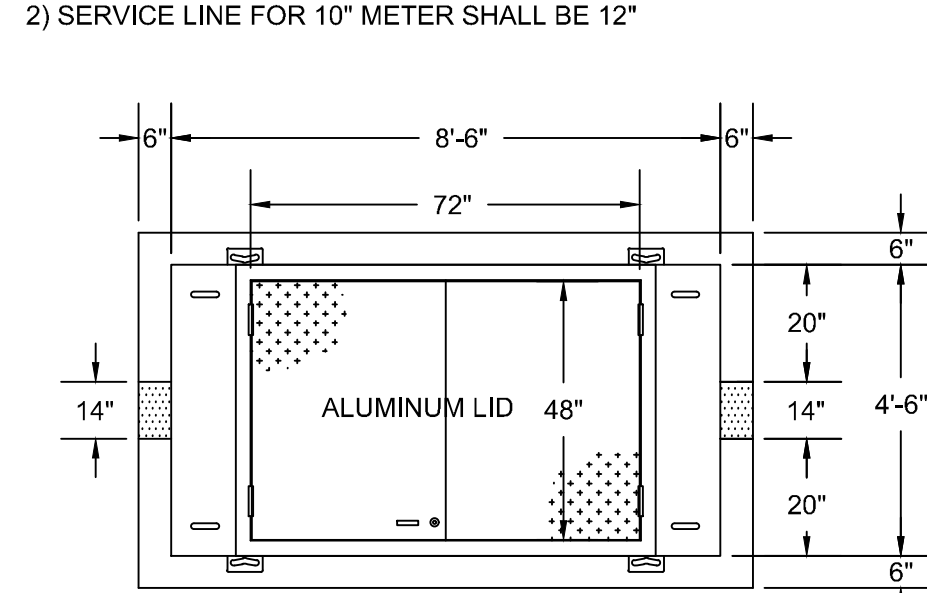
④

UTILITY TRENCHING AND BACKFILL

N.T.S.



- NOTES:
- 1) ALL FITTINGS ARE TO BE MECHANICAL JOINT
 - 2) SERVICE LINE FOR 10" METER SHALL BE 12"



WEIGHT: TOP: 10,600 LBS
BOTTOM: 8,700 LBS

NOTES:

1. REINFORCEMENT: #4 @ 6" OC EW
2. CONCRETE: 4,000 PSI @ 28 DAYS
3. 6" OF #67 STONE SHALL BE PLACED IN BOTTOM OF VAULT
4. METER FLANGE SHALL BE PLACED 49" BELOW FINISHED GRADE.
5. PROVIDE 8" NEPTUNE TURBINE FLOW METER OR APPROVED EQUIV.

⑤

VERTICAL BEND

N.T.S.

⑥

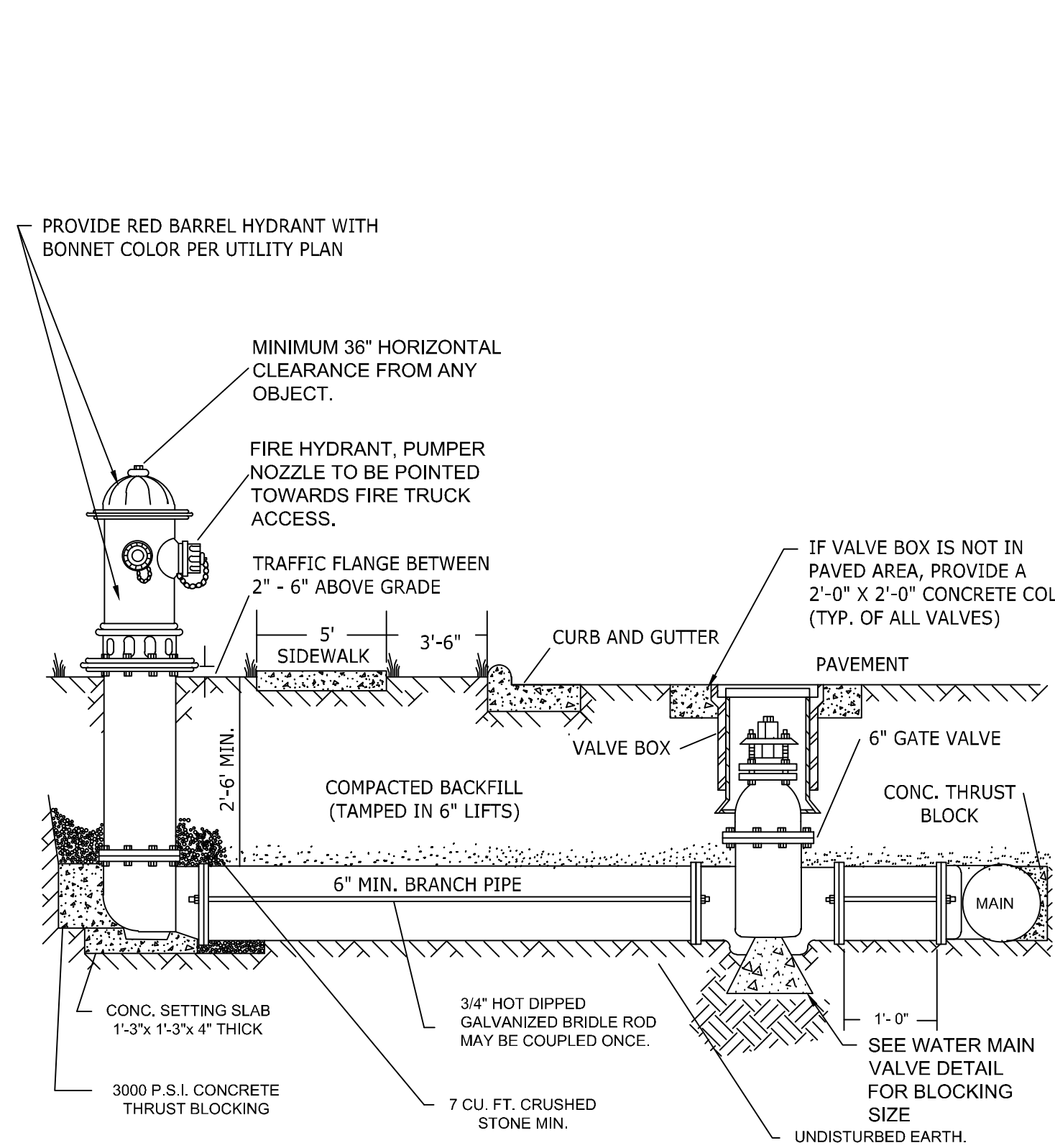
8" WATER METER

N.T.S.

②

STORM SEWER MANHOLE

N.T.S.



NOTES:

1. FIRE HYDRANT SHALL BE AS MANUFACTURED: MUELLER, AMERICAN DARLING, KENNEDY, MAH, WATERLOO.
2. GLOW EAST JORDAN IRON WORKS OR US PIPE.
3. 6" GATE VALVE SHALL BE AWWA C500-86 OPEN LEFT
4. STEEL RODS AND BOLTS SHALL BE 3" HOT DIPPED GALVANIZED
5. FIRE HYDRANTS WILL BE INSTALLED IN TRUE VERTICAL POSITION
6. STEEL SHALL NOT BE COUPLED MORE THAN ONCE. IF THE LENGTH FROM THE VALVE TO THE HYDRANT EXCEEDS 20' THEN A MECHANICAL RESTRAINING GLAND WITH A REBAR GAGE SHALL BE INSTALLED NO MORE THAN 10' FROM HYDRANT AND POURED IN CONCRETE
7. FIRE HYDRANTS TO BE LOCATED IN ROW OR 2' FOOT EASEMENT ADJACENT TO ROW
8. ALL HYDRANTS SHALL BE RED IN COLOR WITH BONNET COLOR PER UTILITY PLAN.

⑦

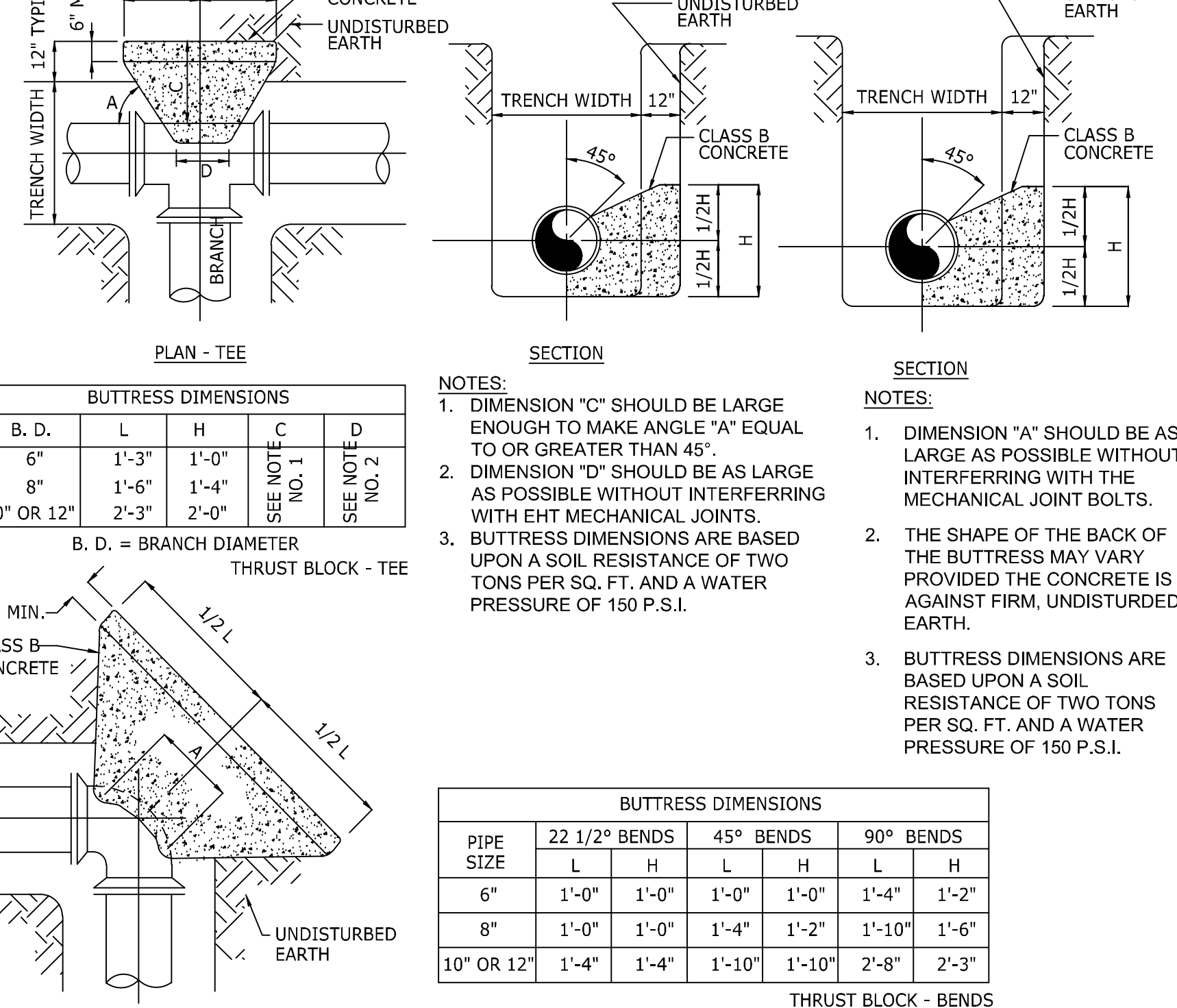
FIRE HYDRANT ASSEMBLY

N.T.S.

③

SANITARY SEWER MANHOLE

N.T.S.



NOTES:

1. DIMENSION "C" SHOULD BE LARGE ENOUGH TO MAKE ANGLE "A" EQUAL TO OR GREATER THAN 45°
2. DIMENSION "D" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT BOLTS.
3. BUTTRUSS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

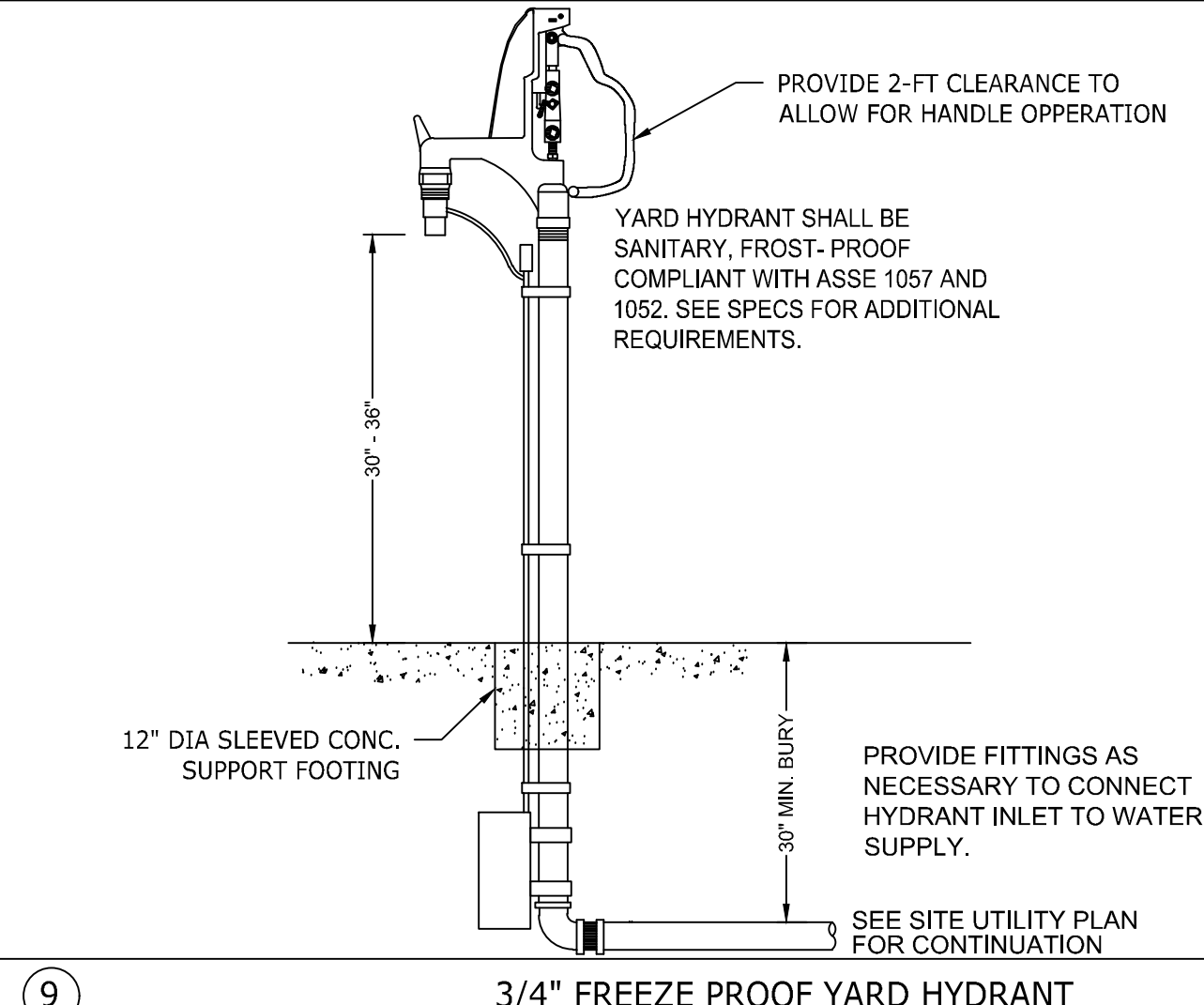
NOTES:

1. DIMENSION "A" SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT BOLTS.
2. THE SHAPE OF THE BACK OF THE BUTTRUSS MAY VARY PROVIDED THE CONCRETE IS AGAINST FIRM, UNDISTURBED EARTH.
3. BUTTRUSS DIMENSIONS ARE BASED UPON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 P.S.I.

⑧

THRUST BLOCK

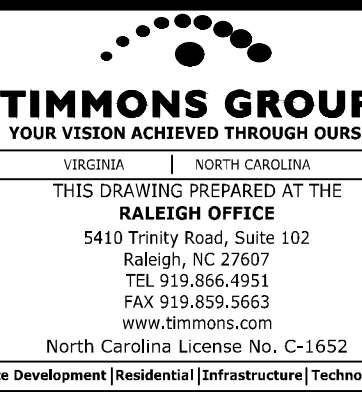
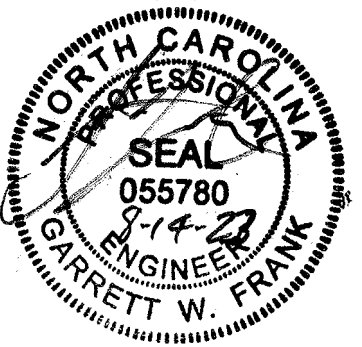
N.T.S.

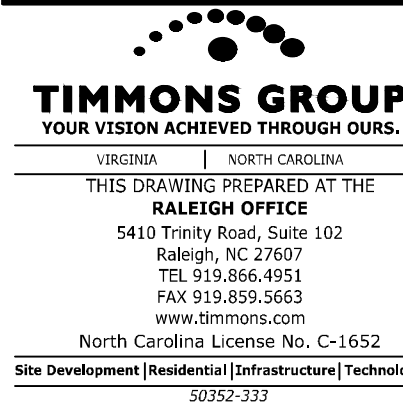
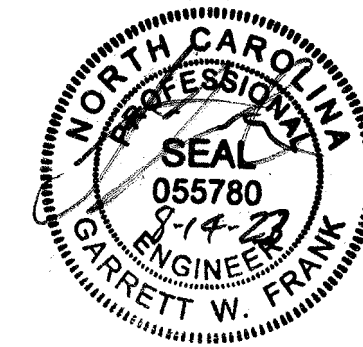
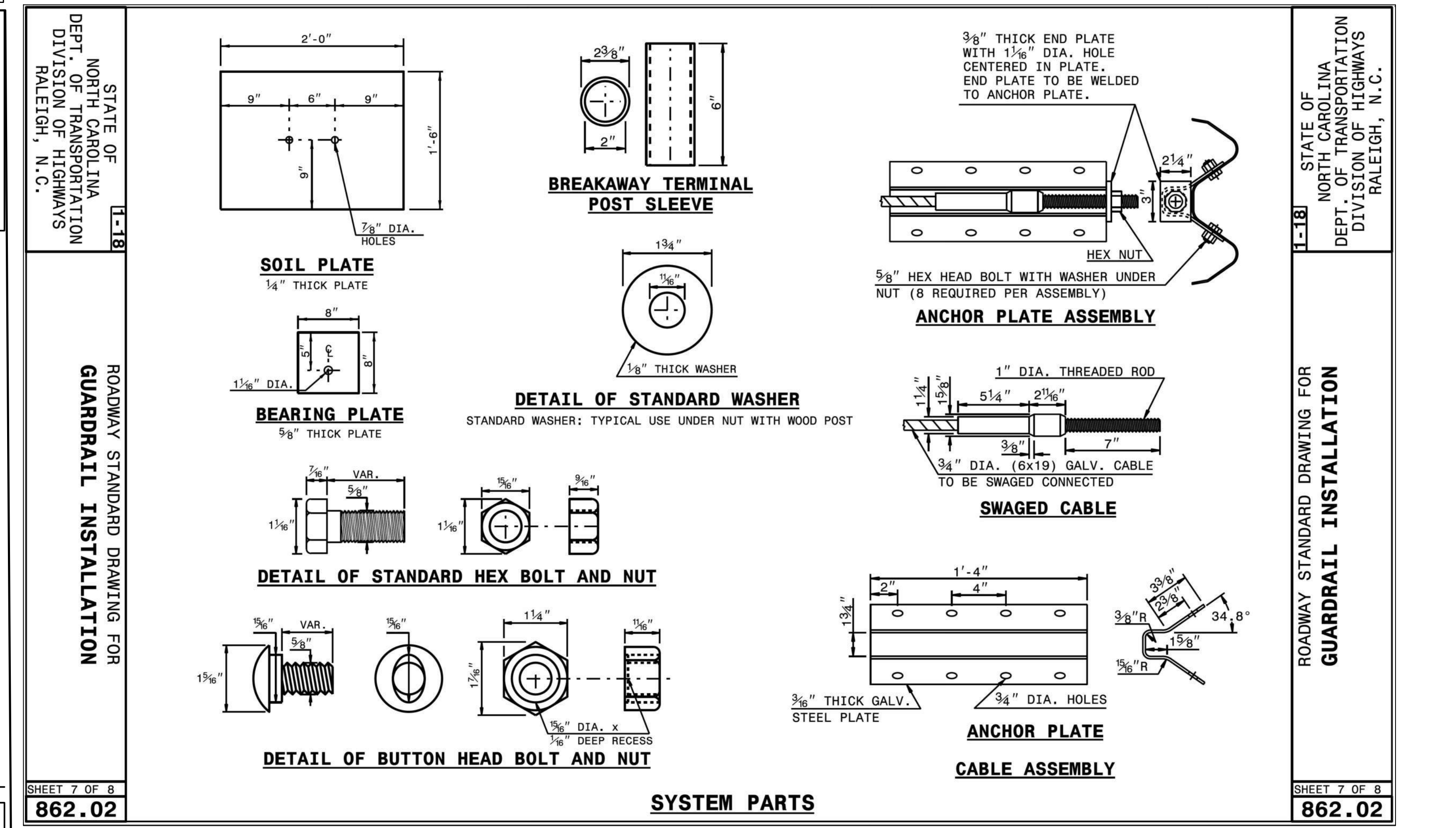
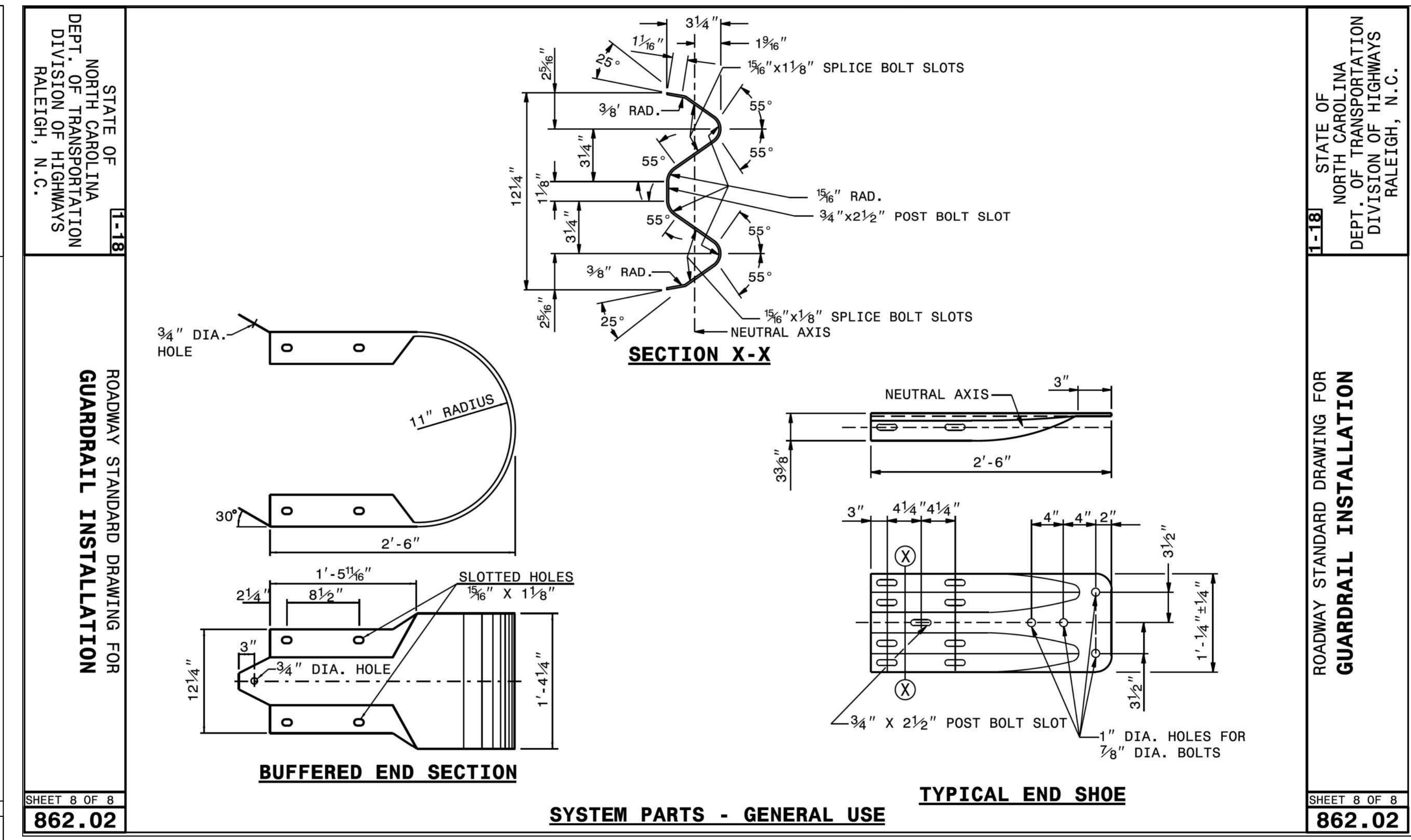
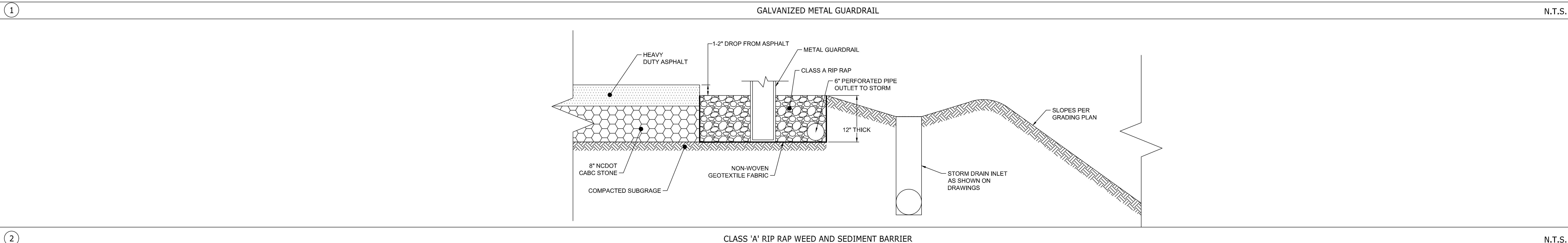
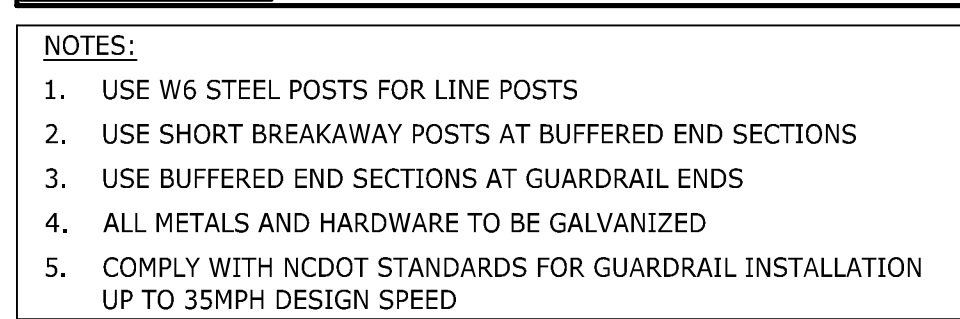


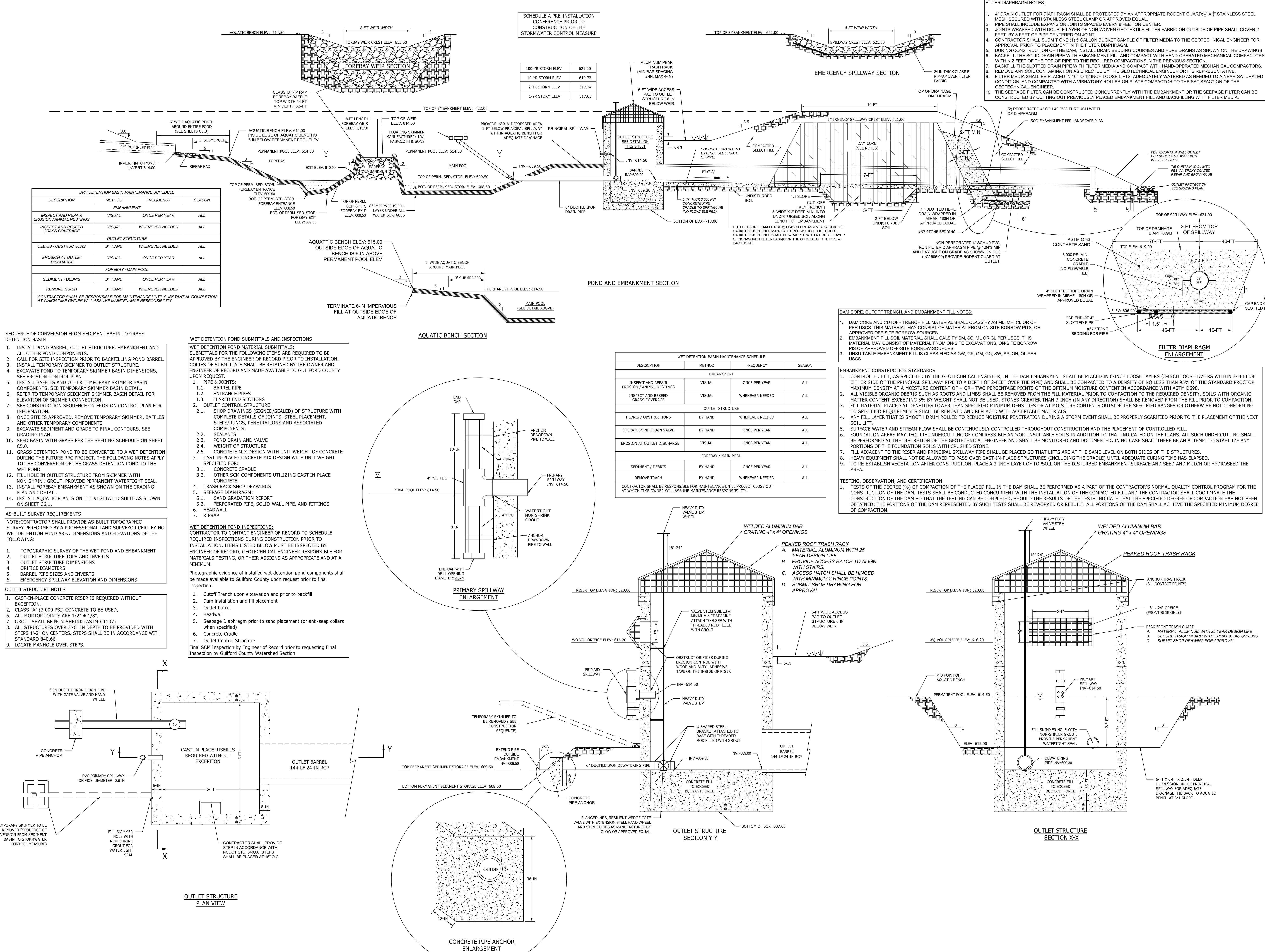
⑨

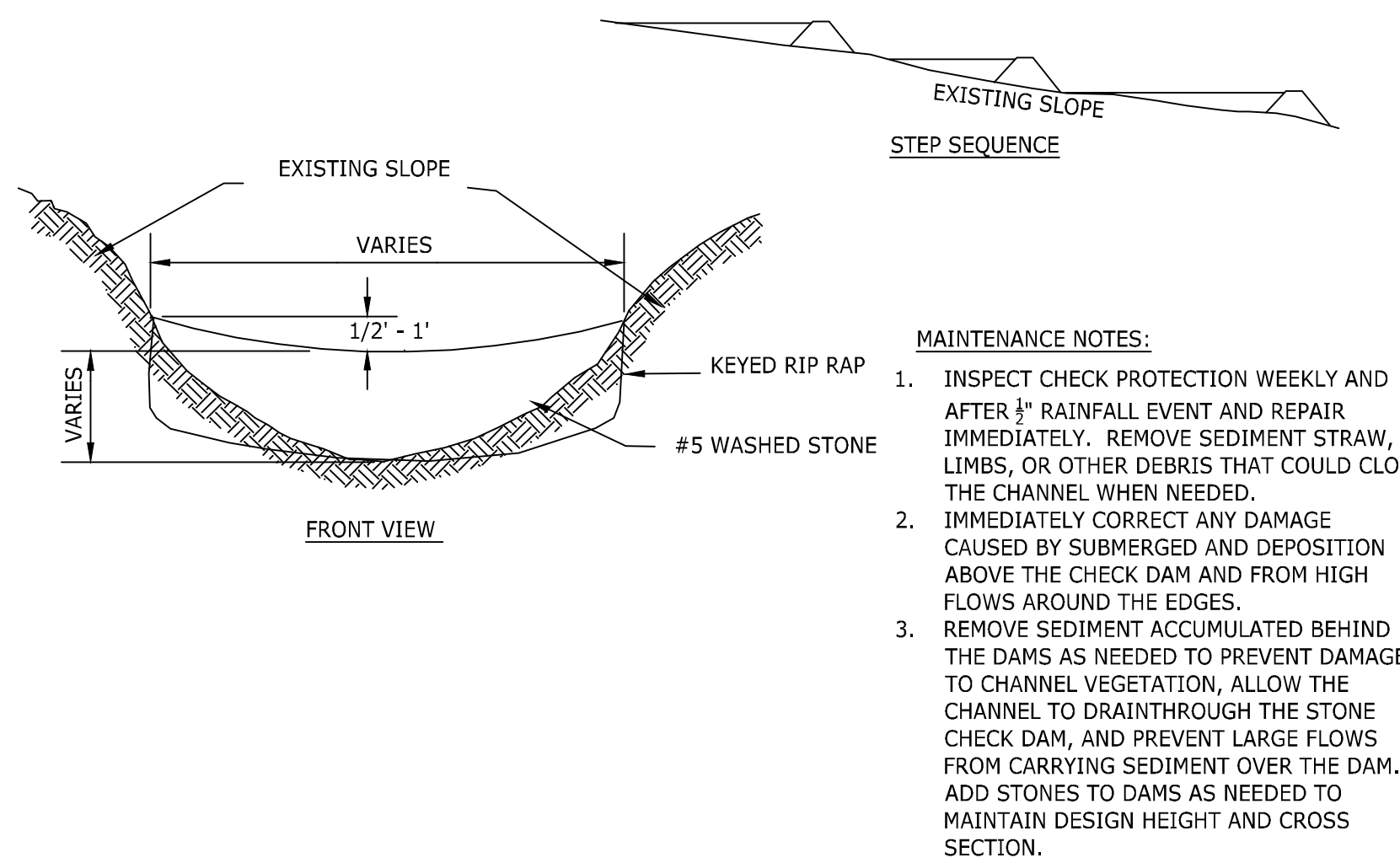
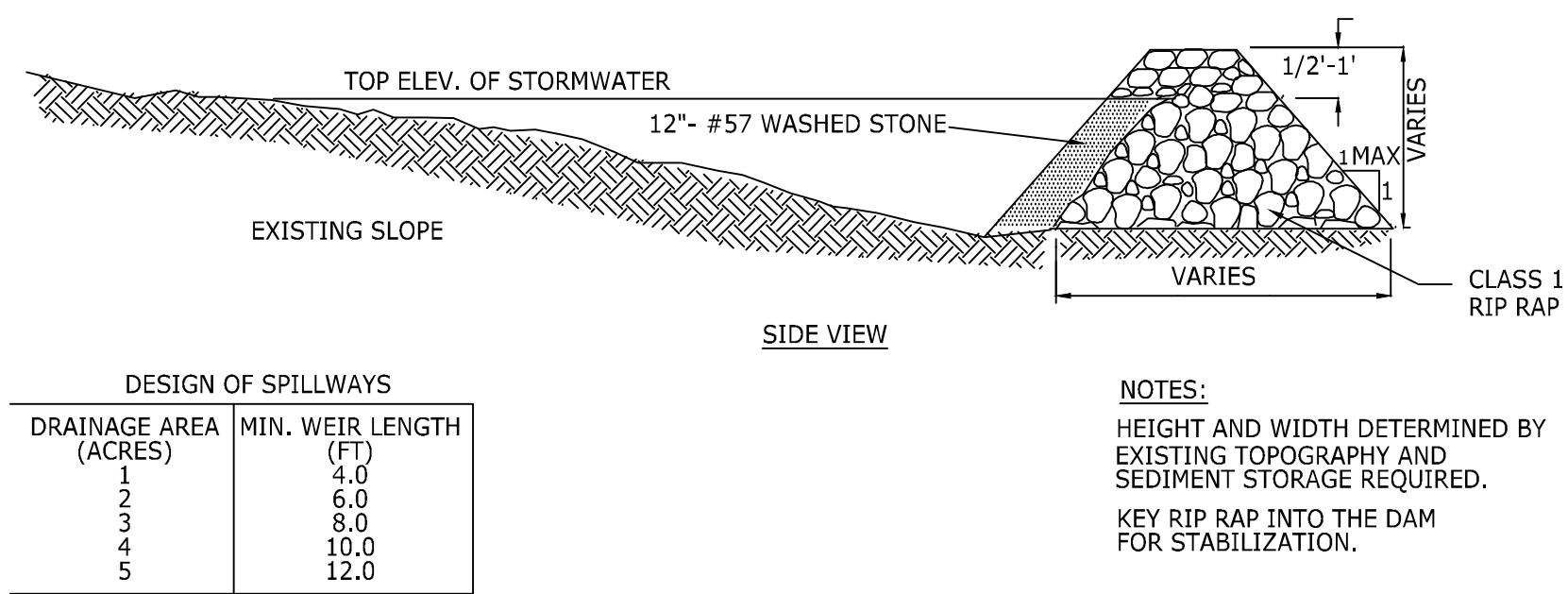
3/4" FREEZE PROOF YARD HYDRANT

N.T.S.

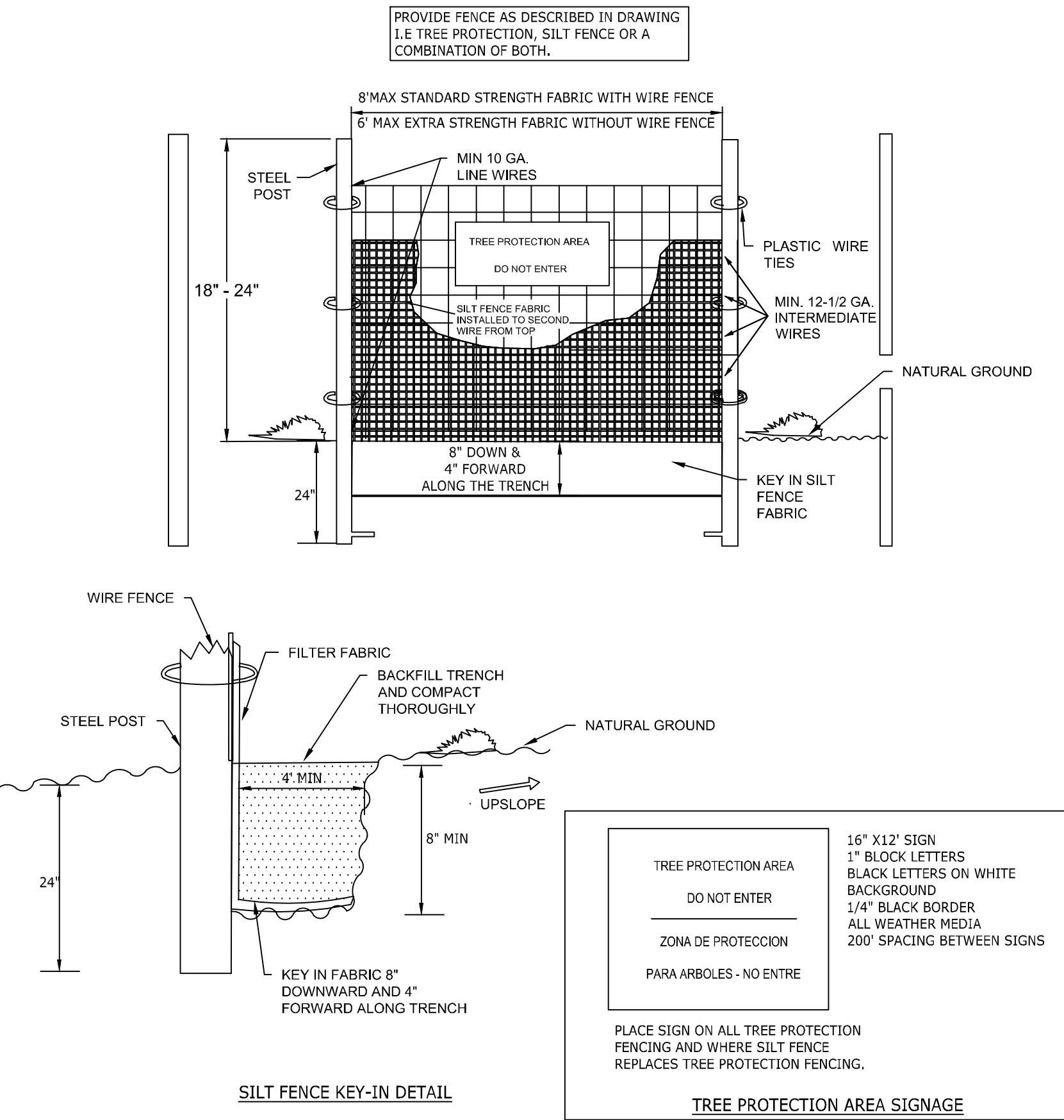




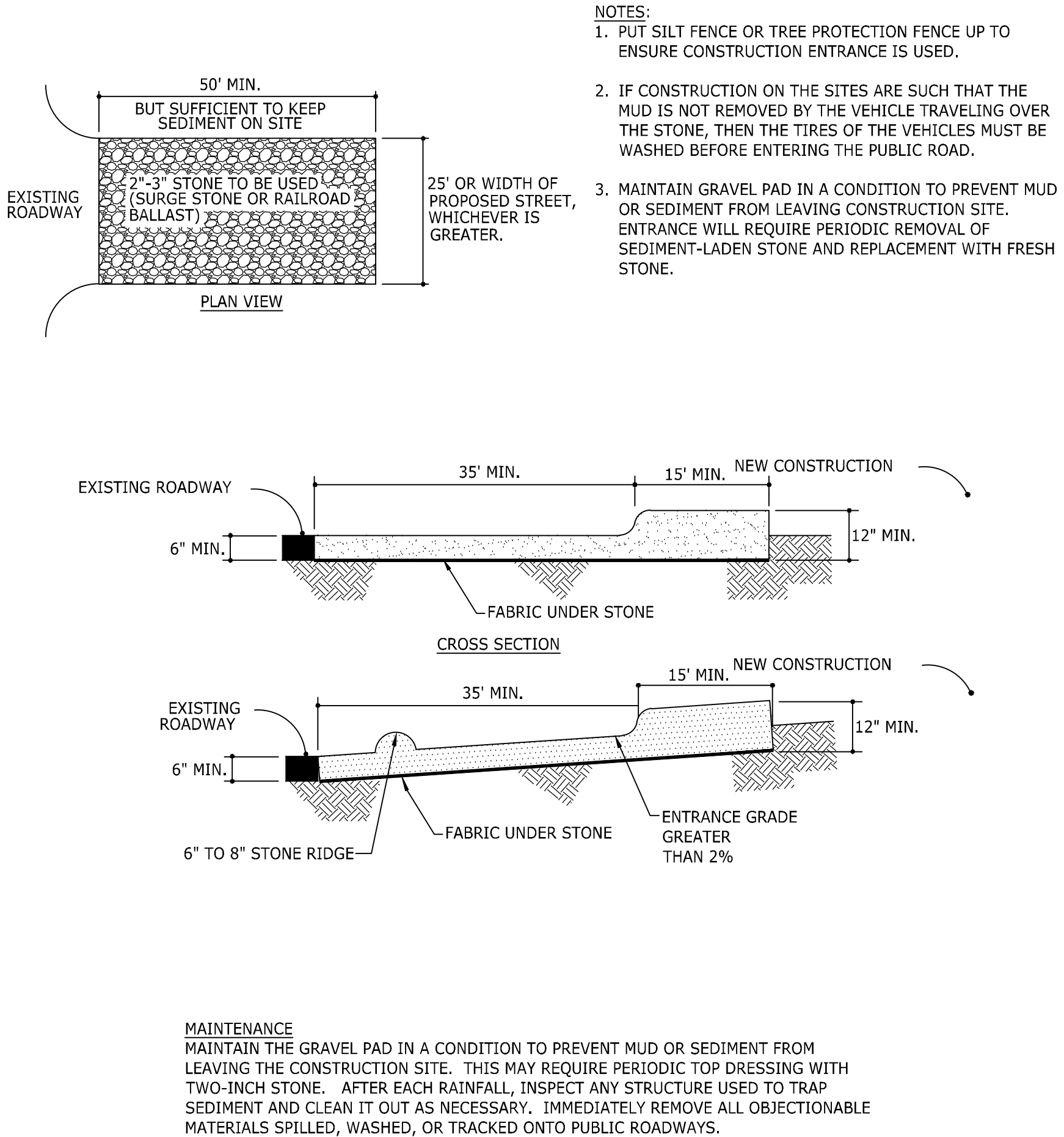




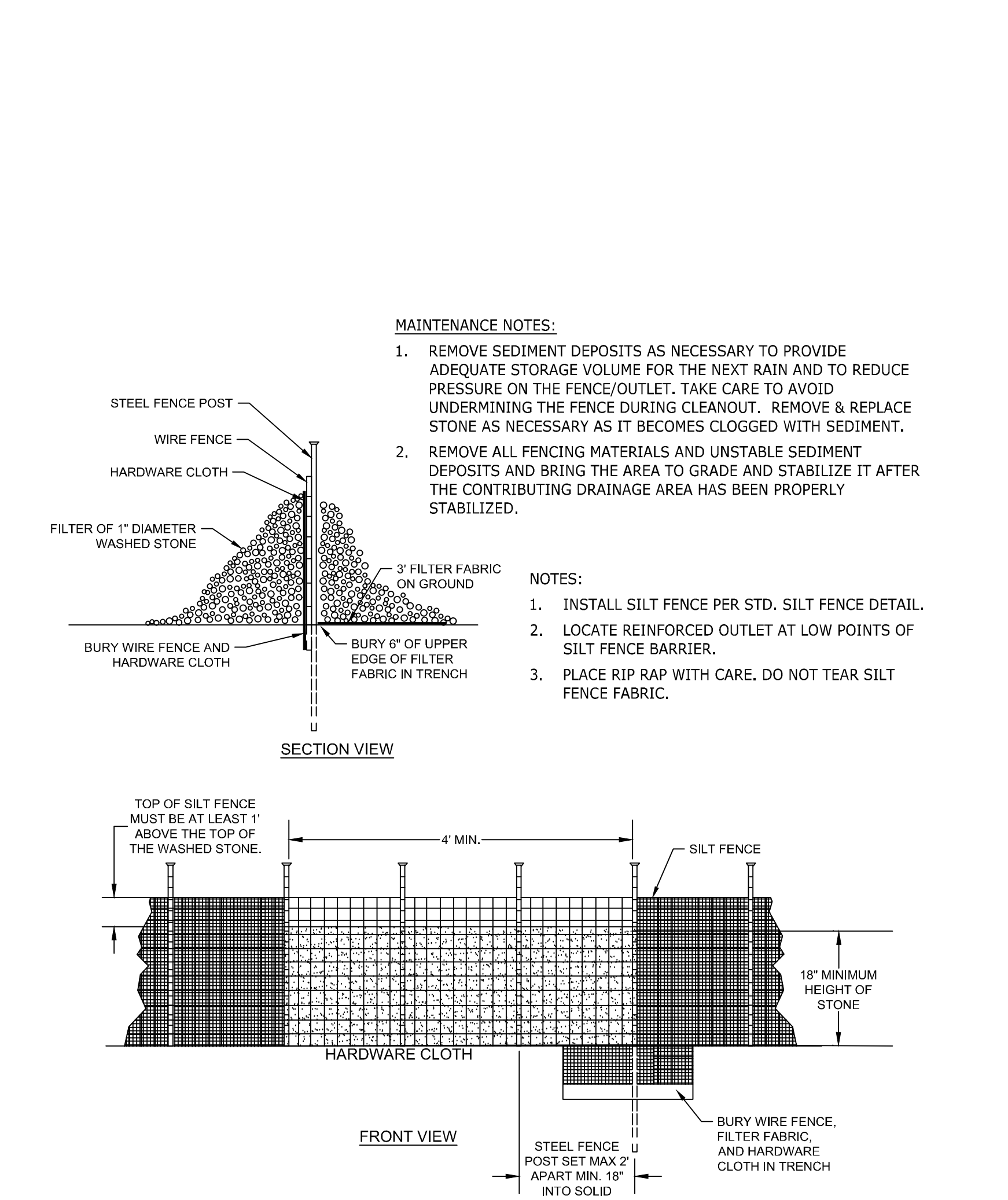
① CHECK DAM N.T.S.



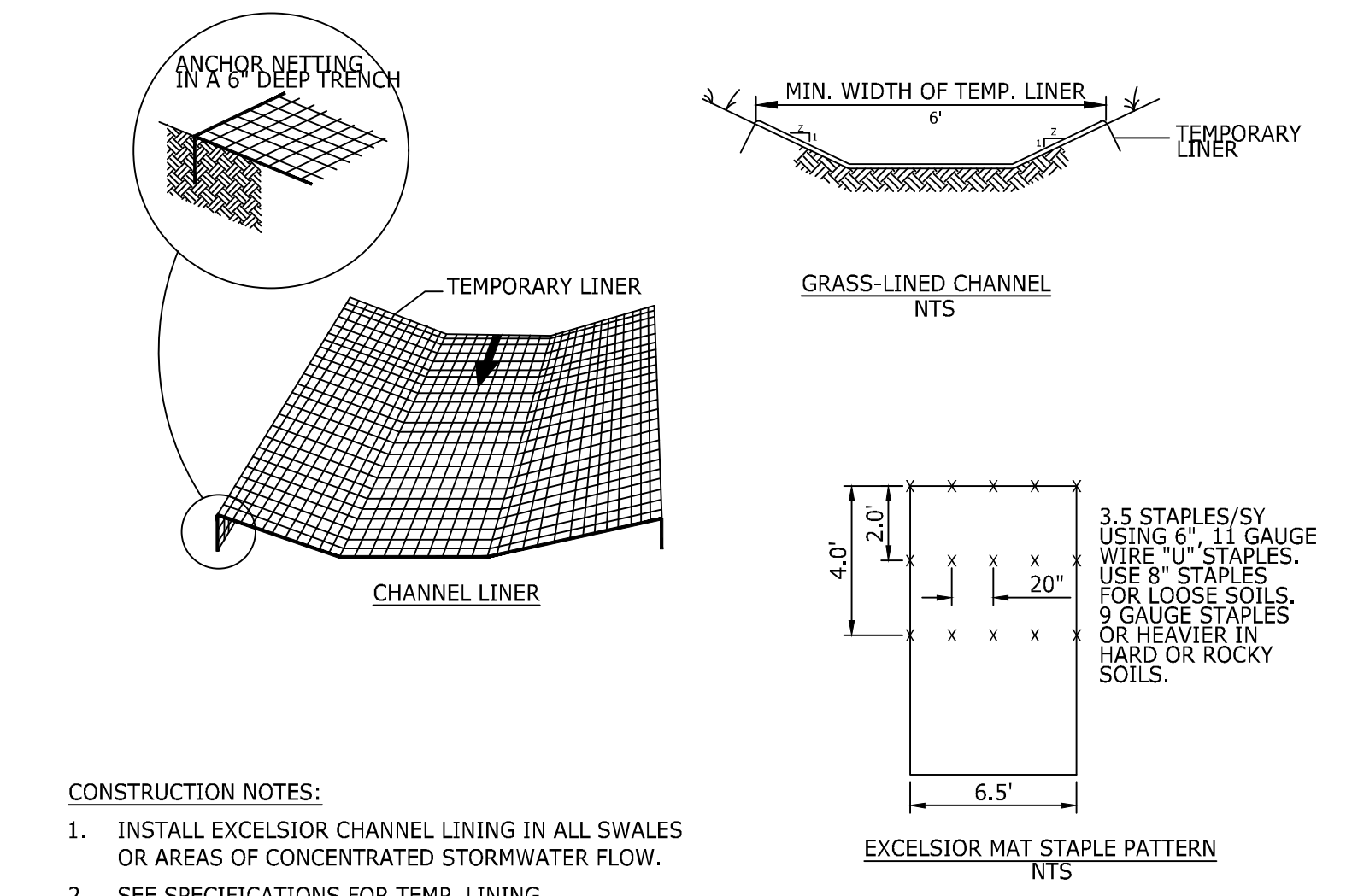
⑤ A B C TEMPORARY SILT/TREE PROTECTION FENCE N.T.S.



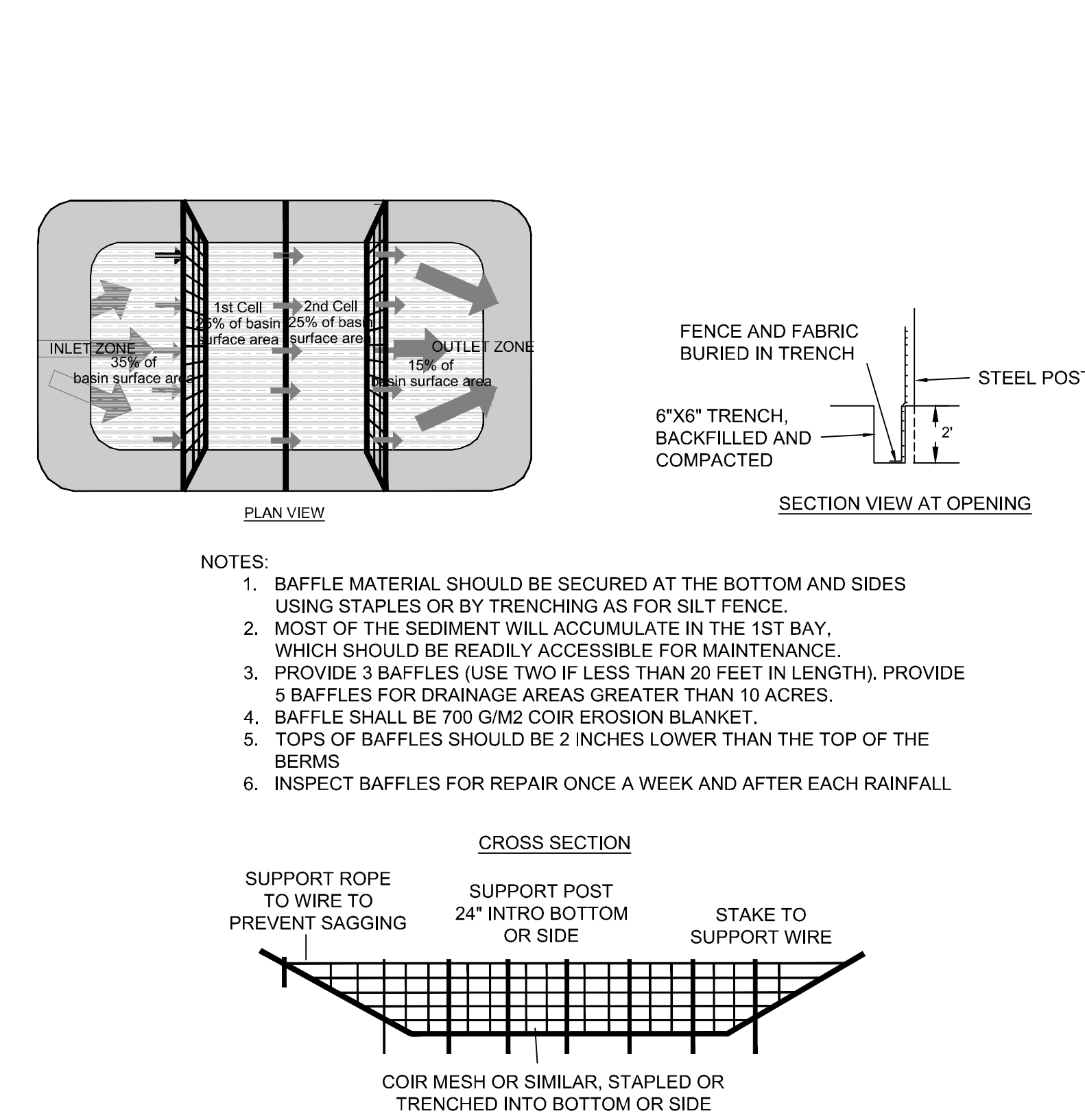
② GRAVEL CONSTRUCTION ENTRANCE N.T.S.



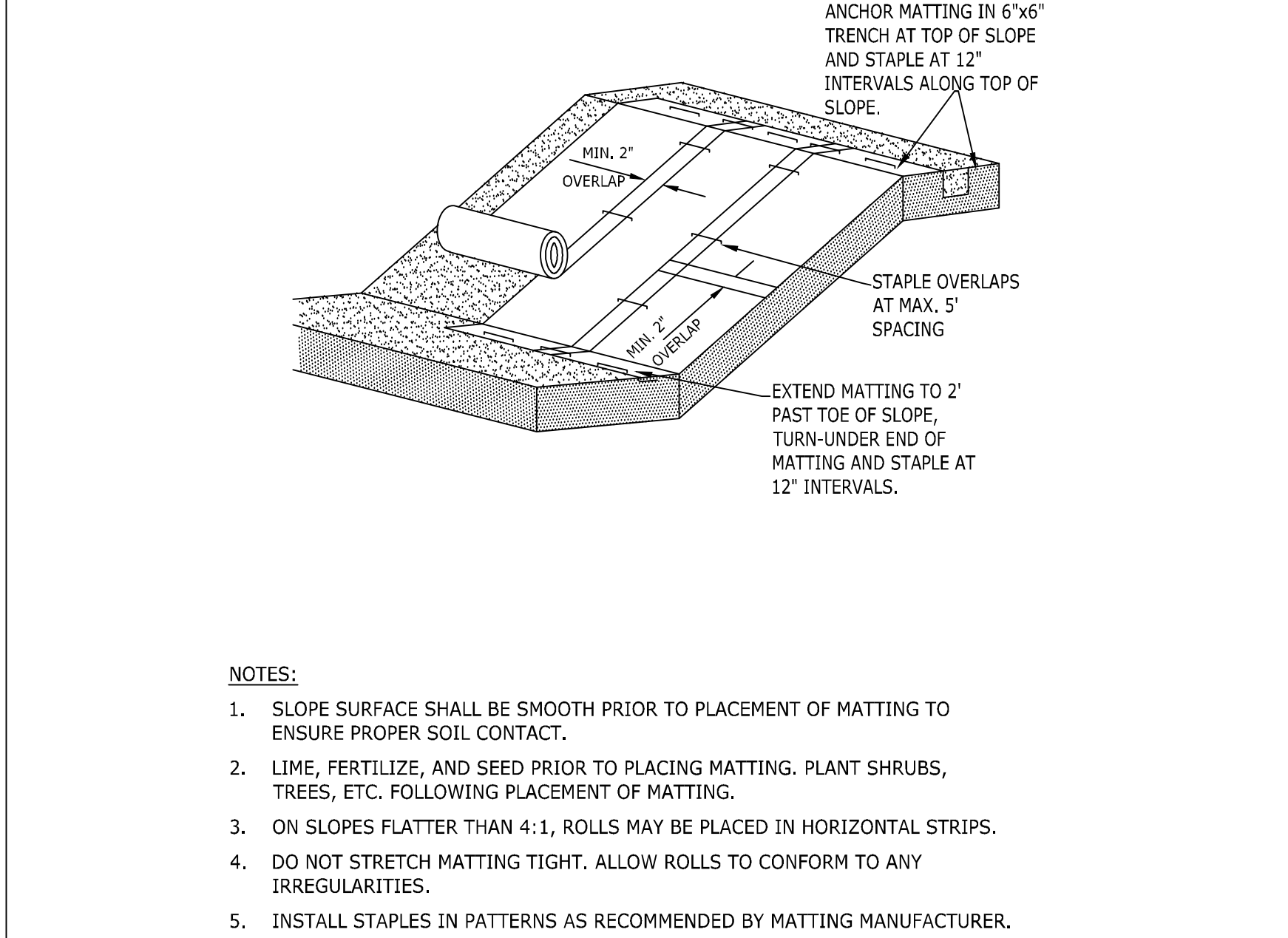
⑥ REINFORCED SILT FENCE OUTLET N.T.S.



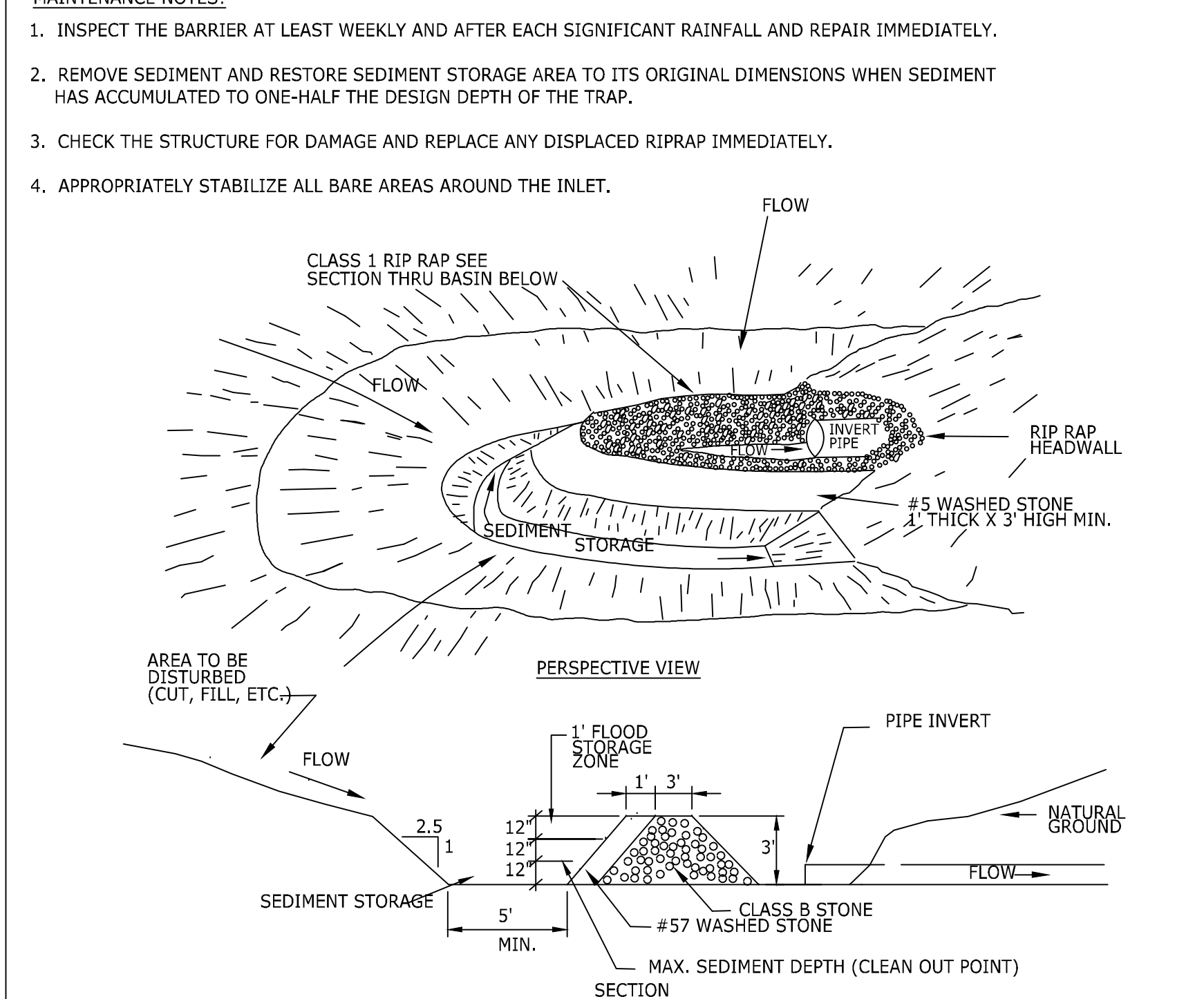
③ TEMPORARY CHANNEL LINING N.T.S.



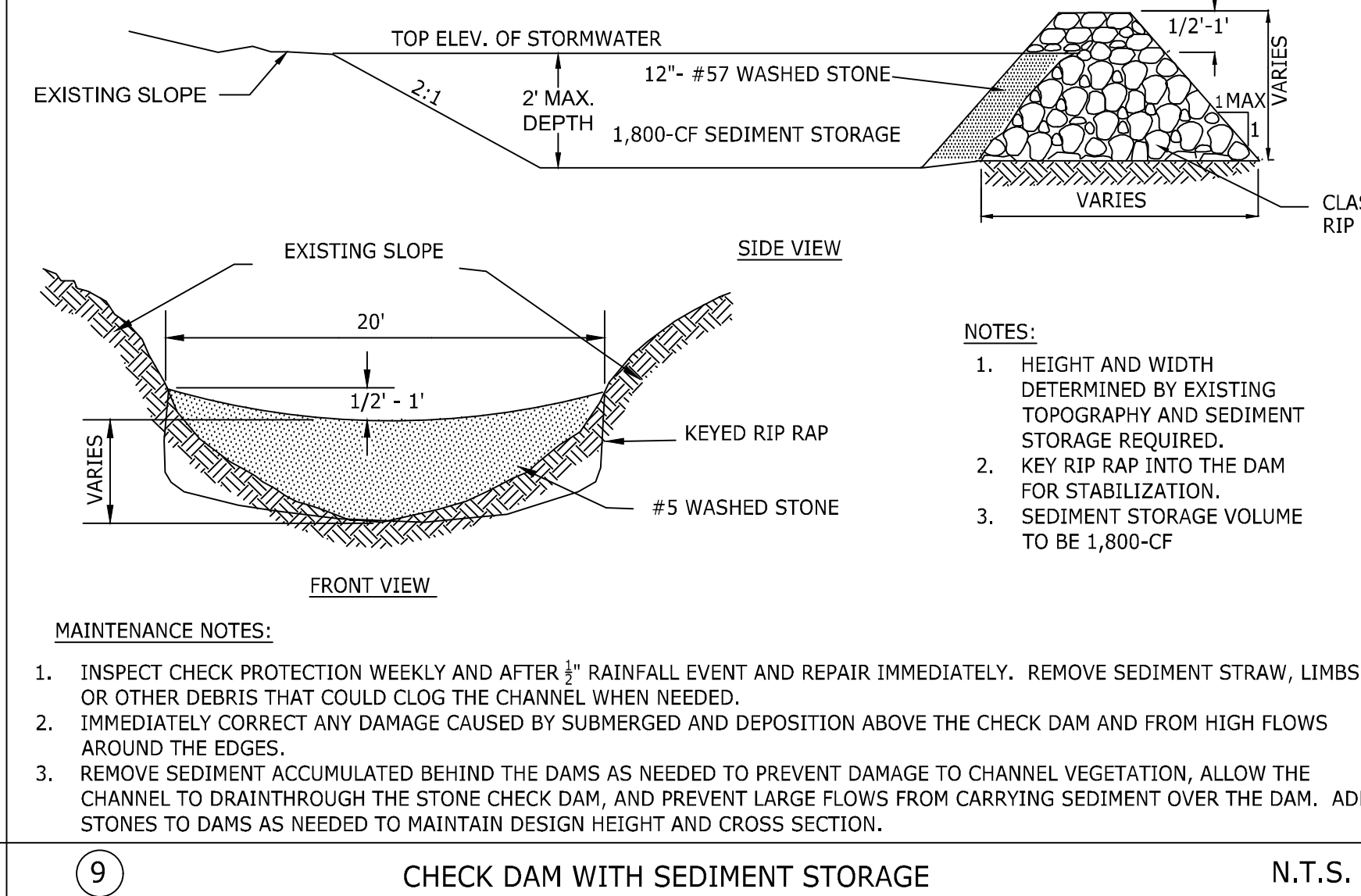
⑦ COIR MESH BAFFLES (NCDENR 6.65) N.T.S.



④ ROLLED EROSION CONTROL PRODUCT (EXCELSIOR) N.T.S.



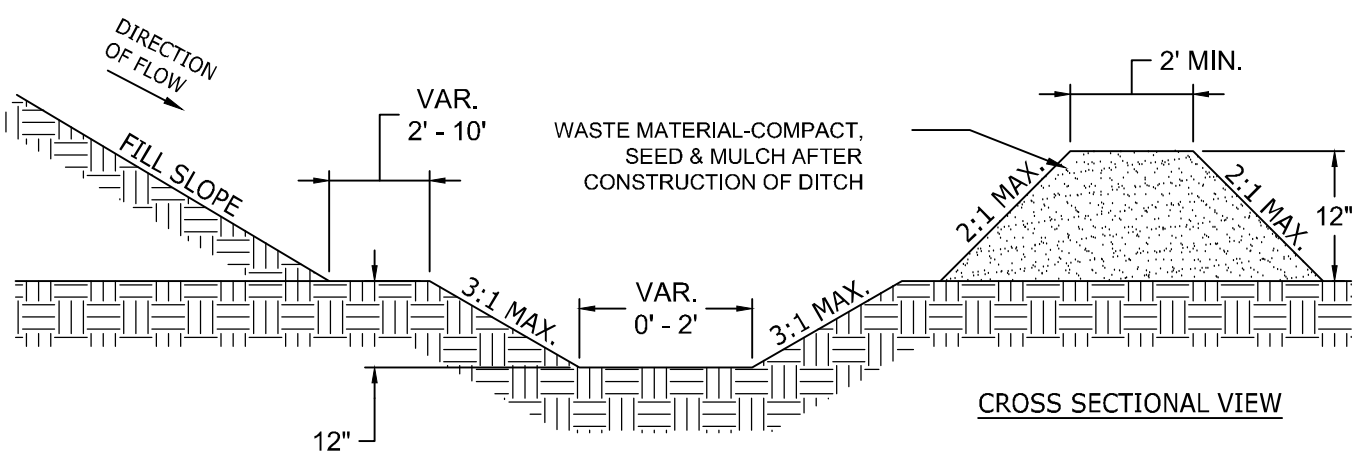
⑧ TEMPORARY EXCAVATED PIPE INLET PROTECTION N.T.S.



⑨ CHECK DAM WITH SEDIMENT STORAGE N.T.S.

NOTES:

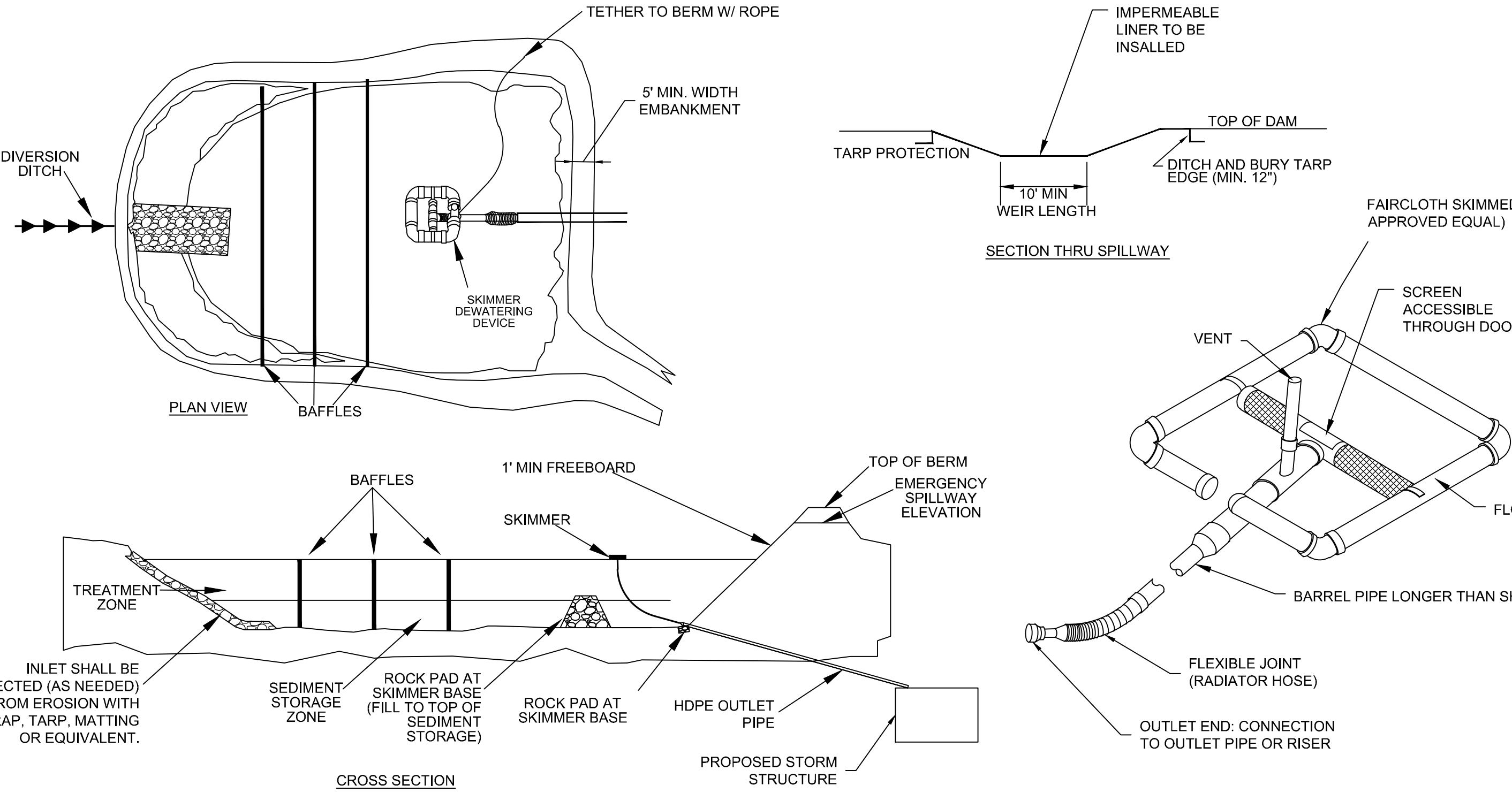
- TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR SOIL.
- SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
- DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
- STABILIZE DIVERSION DITCH BERM WITH TEMPORARY SEEDING, MULCH WITH TAC, AND/OR EROSION CONTROL NETTING.



*SWALES HAVE BEEN DESIGNED USING RAINFALL INTENSITY FOR THE 10-YEAR STORM ACCORDING TO THE NCDENR EROSION CONTROL MANUAL.

**NORTH AMERICAN GREEN MATERIAL OR APPROVED EQUIVALENT

DITCH	TOTAL FLOW (CFS)	SLOPE (%)	BOTTOM WIDTH (FT)	RIGHT SLOPE (H:V)	LEFT SLOPE (H:V)	FLOW DEPTH (FT)	TEMPORARY LINER	PERMANENT LINER
TDD A1	2.70	4.4	0	3:1	3:1	0.52	NORTH AMERICAN GREEN, C125	N/A
TDD A2	6.50	4.4	0	3:1	3:1	0.80	NORTH AMERICAN GREEN, C125	N/A
TDD A3	11.9	4.4	0	3:1	3:1	1.21	NORTH AMERICAN GREEN, S75	N/A
TDD A4	6.20	2.5	0	2:1	2:1	0.87	NORTH AMERICAN GREEN, S75	N/A
TDD A5	2.80	2.1	0	3:1	3:1	0.67	NORTH AMERICAN GREEN, S75	N/A
TDD A6	5.90	1.6	0	3:1	3:1	0.93	NORTH AMERICAN GREEN, S75	N/A
TDD A7	3.90	5.3	0	3:1	3:1	0.53	NORTH AMERICAN GREEN, C125	N/A
TDD A8	2.50	5.3	0	3:1	3:1	0.46	NORTH AMERICAN GREEN, S75	N/A
PDD1	0.50	3.7	0	3:1	3:1	0.30	NORTH AMERICAN GREEN, S75	GRASS
PDD2	0.20	5.1	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD3	0.10	4.0	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD4	0.10	4.9	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD5	0.60	5.1	0	3:1	3:1	0.30	NORTH AMERICAN GREEN, S75	GRASS
PDD6	0.40	5.7	0	3:1	3:1	0.30	NORTH AMERICAN GREEN, S75	GRASS
PDD7	0.40	5.7	0	3:1	3:1	0.30	NORTH AMERICAN GREEN, S75	GRASS
PDD8	0.10	5.8	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD9	0.30	6.6	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD10	0.30	6.3	0	3:1	3:1	0.30	NORTH AMERICAN GREEN, S75	GRASS
PDD11	0.10	5.4	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD12	0.10	6.7	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD13	0.10	5.8	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS
PDD14	29.4	3.1	4	3:1	3:1	0.79	NORTH AMERICAN GREEN, S75	GRASS
PDD15	4.70	2.5	0	3:1	3:1	0.70	NORTH AMERICAN GREEN, S75	GRASS
PDD16	2.30	2.8	0	3:1	3:1	0.50	NORTH AMERICAN GREEN, S75	GRASS
PDD17	0.90	4.4	0	3:1	3:1	0.35	NORTH AMERICAN GREEN, S75	GRASS
PDD18A	31.9	2.1	4	3:1	3:1	0.85	NORTH AMERICAN GREEN, S75	GRASS
PDD18B	33.2	4.5	4	3:1	3:1	0.76	NORTH AMERICAN GREEN, C125	GRASS
PDD19	13.0	1.9	4	3:1	3:1	0.60	NORTH AMERICAN GREEN, S75	GRASS
PDD20A	2.70	0.50	3:1	3:1	3:1	0.42	NORTH AMERICAN GREEN, S75	GRASS
PDD20B	16.8	8.6	2	3:1	3:1	0.60	CLASS 'B' (8" @ 18" THK)	CLASS 'B' (8" @ 18" THK)
PDD21	6.00	4.4	1	3:1	3:1	0.55	NORTH AMERICAN GREEN, S75	GRASS
PDD22	1.80	6.4	0	3:1	3:1	0.39	NORTH AMERICAN GREEN, S75	GRASS
PDD23	1.30	1.7	0	3:1	3:1	0.45	NORTH AMERICAN GREEN, S75	GRASS
PDD24	0.80	2.5	0	3:1	3:1	0.40	NORTH AMERICAN GREEN, S75	GRASS
PDD25	0.10	1.5	0	3:1	3:1	0.20	NORTH AMERICAN GREEN, S75	GRASS

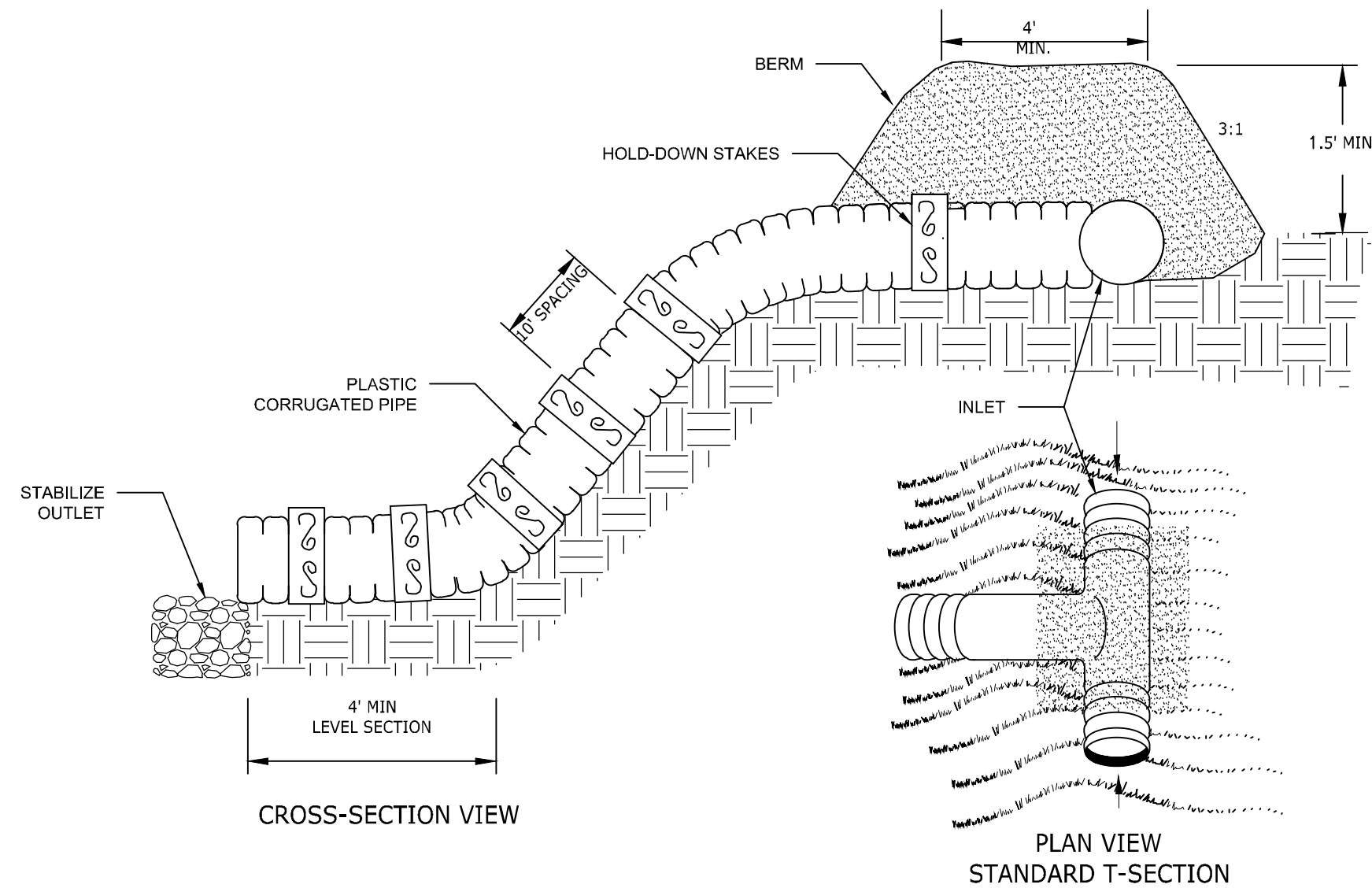


BASIN NUMBER	DRAIN AREA(ACRES)	DISTB. AREA(ACRES)	PEAK FLOW(CFS)	BASIN SURFACE AREA(SF)	REQUIRED SURFACE AREA(SF)	BASIN VOLUME (CF)	REQUIRED BASIN VOLUME (CF)	SPILLWAY WIDTH (FT)	SKIMMER SIZE (IN.)	SKIMMER ORIFICE DIAMETER (IN.)	TOP OF BERM ELEV.	EMERGENCY SPILLWAY ELEV.	BOTTOM OF BASIN ELEV.	SIDE SLOPES	DEWATERING TIME (DAYS)
1	21.02	21.02	28.72	22,459	9,335	40,609	37,836	10	5	2.75	622	621	615	3:1	3.75
2	5.98	5.98	13.03	5,171	4,234	14,229	10,761	10	3	1.75	647	645	642	3:1	3.04

BASIN SIDES AND WEIR SHALL HAVE MAXIMUM SLOPES OF 2:1 OR FLATTER. DIMENSIONS SHOWN ARE AT WEIR ELEVATION OF BASIN VOLUMES PROVIDED ARE BASED ON AVAILABLE VOLUME AT THE PRINCIPAL SPILLWAY

① DIVERSION DITCH / BERM

N.T.S.



NOTES:

- CONSTRUCT THE ENTRANCE TO THE SLOPE DRAIN OF A STANDARD FLARED-END SECTION OF PIPE WITH A MINIMUM 6-INCH METAL TOE PLATE (CROSS-SECTION VIEW). MAKE ALL FITTINGS WATERTIGHT. A STANDARD T-SECTION FITTING MAY ALSO BE USED AT THE INLET.
- USE AN EARTHEN DIVERSION TO DIRECT SURFACE RUNOFF INTO THE TEMPORARY SLOPE DRAIN. MAKE THE HEIGHT OF THE BERM OVER THE DRAIN CONDUIT A MINIMUM OF 1.5 FT AND AT LEAST 6 INCHES HIGHER THAN THE ADJOINING BERM ON EITHER SIDE. THE LOWEST POINT OF THE DIVERSION SECTION SHOULD BE A MINIMUM OF 1 FT ABOVE THE TOP OF THE DRAIN SO THAT DESIGN FLOW CAN FREELY ENTER THE PIPE.
- PROTECT THE OUTLET OF THE SLOPE DRAIN FROM EROSION WITH RIPRAP DISSIPATER.

CONSTRUCTION SPECIFICATION

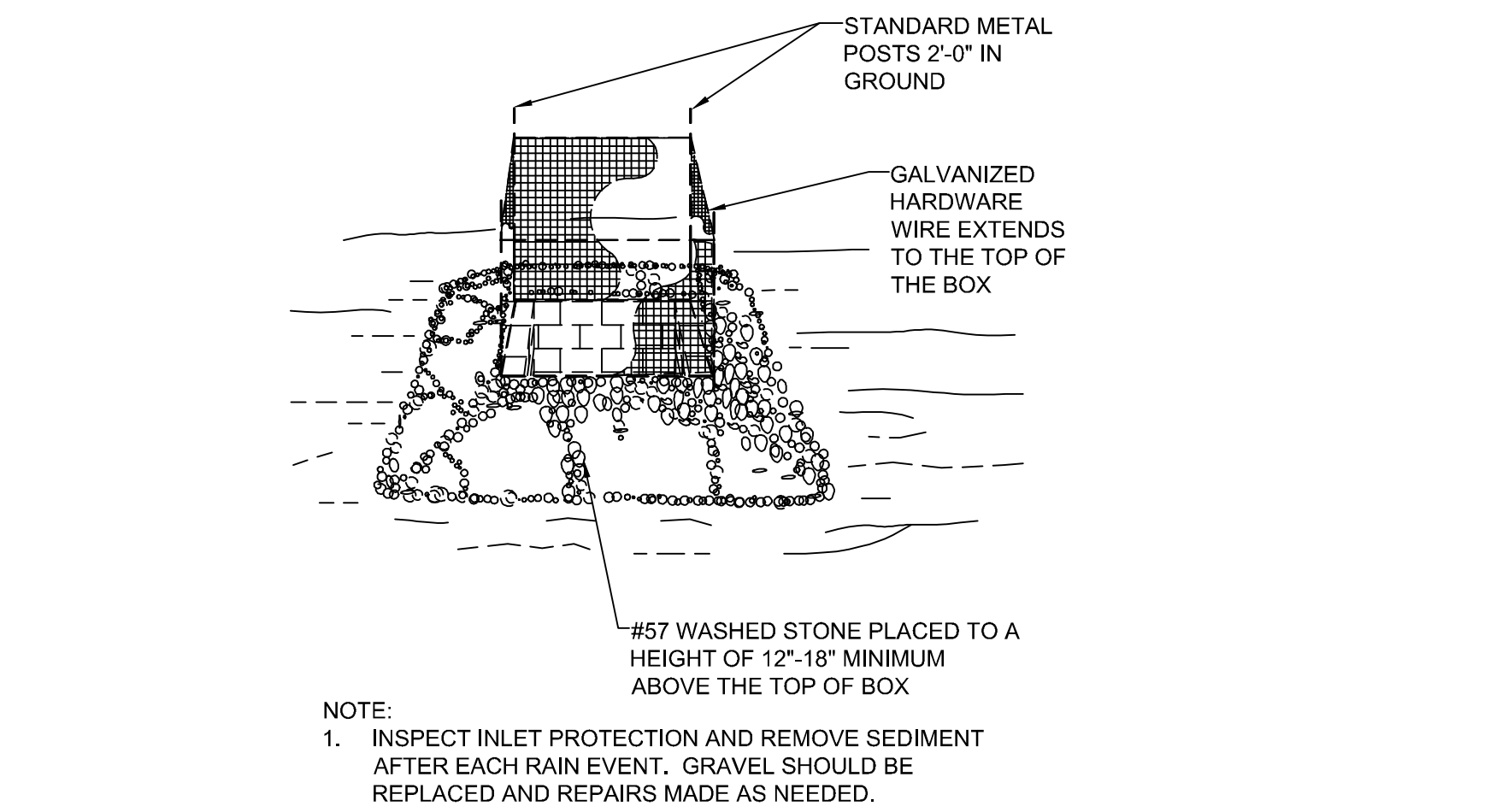
- PLACE SLOPE DRAINS ON UNDISTURBED SOIL OR WELL COMPACTED FILL AT LOCATIONS AND ELEVATIONS SHOWN ON PLAN.
- SLIGHTLY SLOPE THE SECTION OF PIPE UNDER THE DIKE TOWARDS ITS OUTLET.
- HAND TAMP THE SOIL UNDER AND AROUND THE ENTRANCE SECTION IN LIFTS NOT EXCEEDING 6 INCHES.
- ENSURE THAT FILL OVER THE DRAIN AT THE TOP OF THE SLOPE HAS MINIMUM DIMENSIONS OF 1.5 FEET DEPTH, 4 FEET TOP WIDTH, AND 3:1 SIDE SLOPES.
- ENSURE THAT ALL SLOPE DRAIN CONNECTIONS ARE WATERTIGHT.
- ENSURE THAT ALL FILL MATERIAL IS WELL-COMPACTED. SECURELY FASTEN THE EXPOSED SECTION OF THE DRAIN WITH GROMMETS OR STAKES SPACES NO MORE THAN 10 FEET APART.
- EXTEND THE DRAIN BEYOND THE TOE OF THE SLOPE, AND ADEQUATELY PROTECT THE OUTLET FROM EROSION.
- MAKE THE SETTLED, COMPACTED DIKE RIDGE NO LESS THAN 1 FOOT ABOVE THE TOP OF THE PIPE AT EVERY POINT.
- IMMEDIATELY STABILIZE ALL DISTURBED AREAS FOLLOWING CONSTRUCTION.

MAINTENANCE

- INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.

③ TEMPORARY SLOPE DRAIN

N.T.S.



NOTE:

- INSPECT INLET PROTECTION AND REMOVE SEDIMENT AFTER EACH RAIN EVENT. GRAVEL SHOULD BE REPLACED AND REPAIRS MADE AS NEEDED.

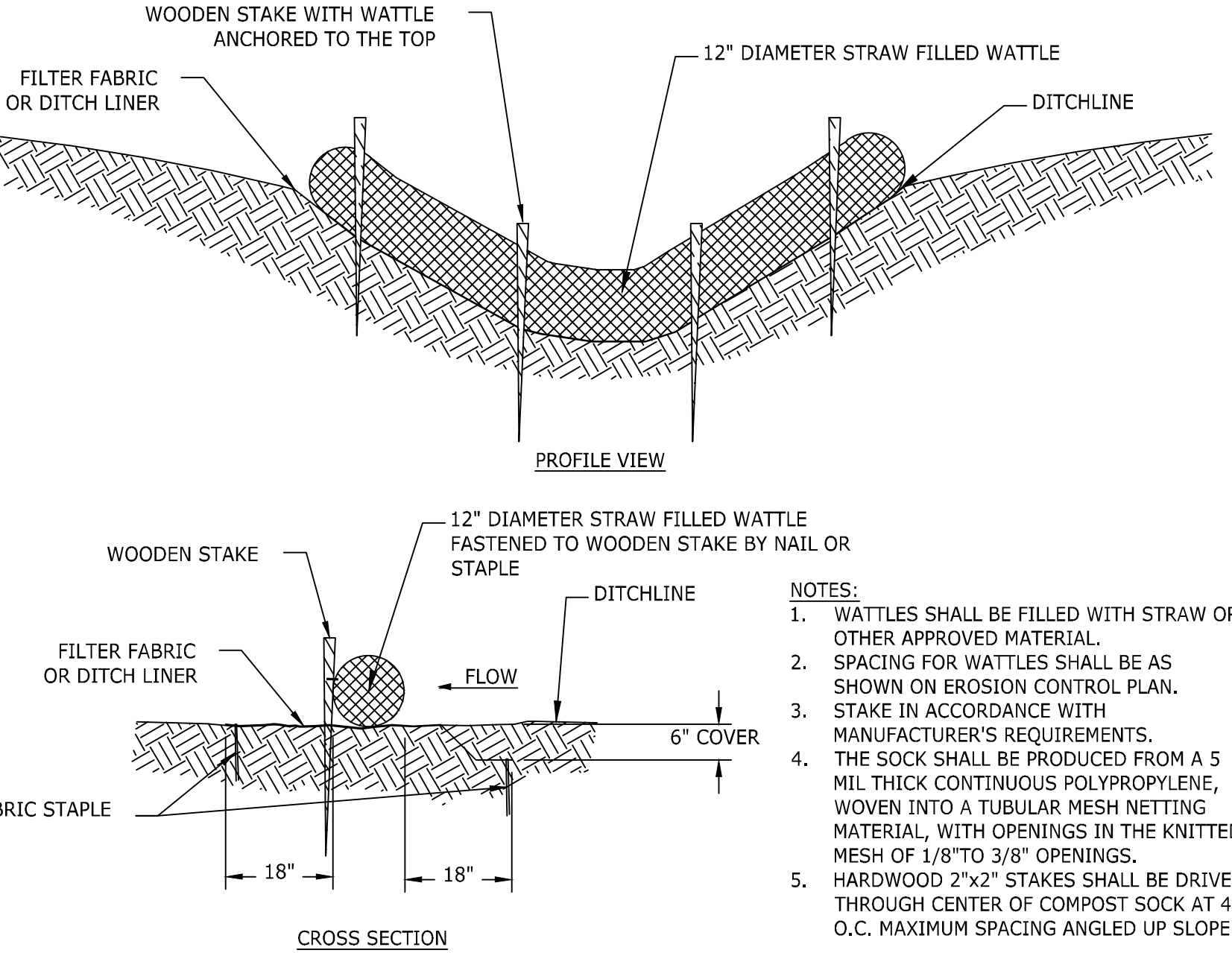
④ INLET PROTECTION

N.T.S.

②

SEDIMENT BASIN WITH STANDARD SKIMMER (NCDENR 6.61)

N.T.S.

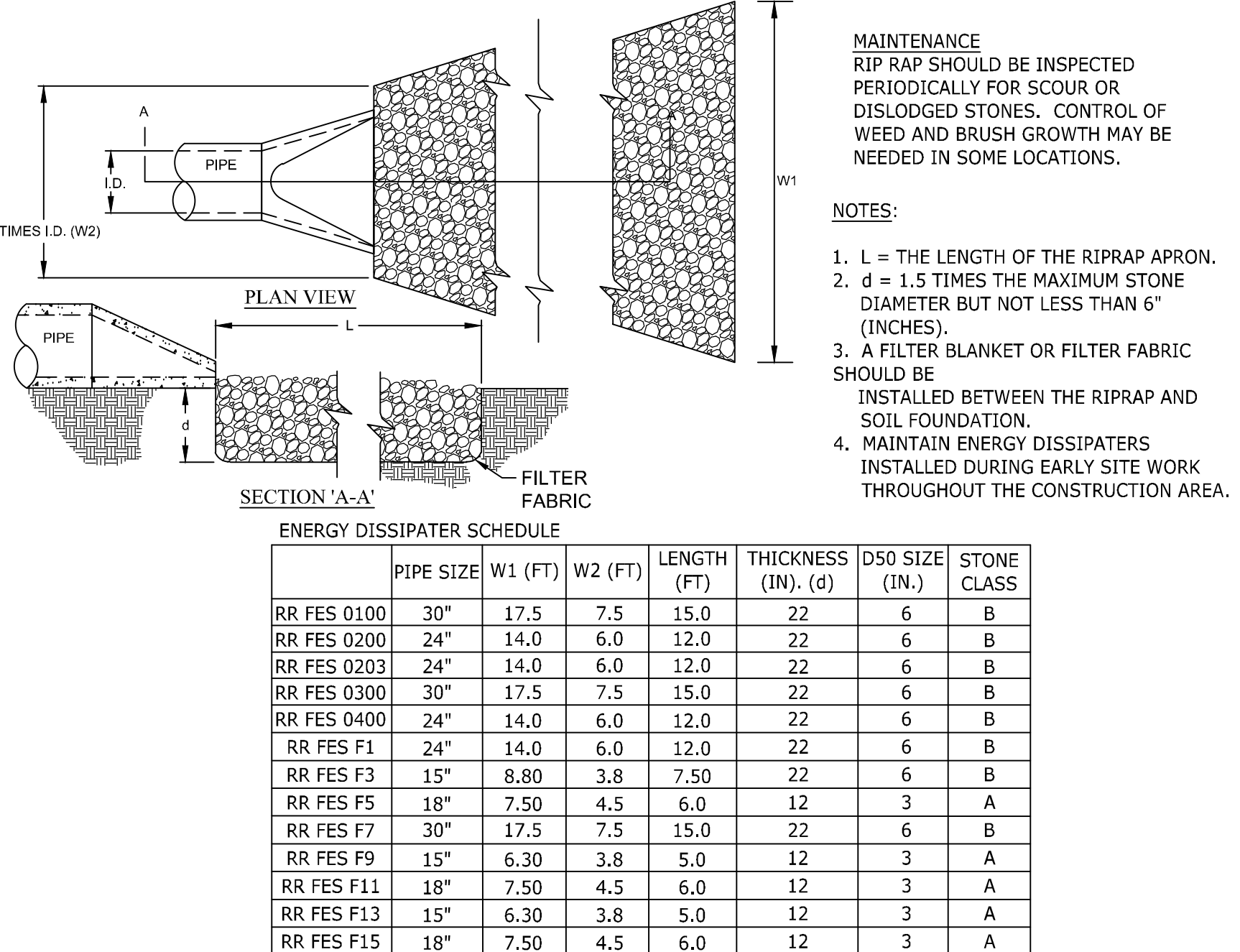


MAINTENANCE NOTES:

- INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER).
- REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN.
- IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE.
- THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED.
- THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

⑤ TEMPORARY WATTLE

N.T.S.



NOTES:

- L = LENGTH OF THE RIPRAP APRON.
- d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
- A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.
- MAINTAIN ENERGY DISSIPATERS INSTALLED DURING EARLY SITE WORK THROUGHOUT THE CONSTRUCTION AREA.

ENERGY DISSIPATER SCHEDULE	PIPE SIZE	W1 (FT)	W2 (FT)	LENGTH (FT)	THICKNESS (IN.)	DSO SIZE (IN.)	STONE CLASS
RR FES 0100	30"	17.5	7.5	15.0	22	6	B
RR FES 0200	24"	14.0	6.0	12.0	22	6	B
RR FES 0203	24"	14.0	6.0	12.0	22	6	B
RR FES 0300	30"	17.5	7.5	15.0	22	6	B
RR FES 0400	24"	14.0	6.0	12.0	22	6	B
RR FES F1	24"	14.0	6.0	12.0	22	6	B
RR FES F3	15"	8.80	3.8	7.50	22	6	B
RR FES F5	18"	7.50	4.5	6.0	12	3	A
RR FES F7	30"	17.5	7.5	15.0	22	6	B
RR FES F9	15"	6.30	3.8	5.0	12	3	A
RR FES F11	18"	7.50	4.5	6.0	12	3	A
RR FES F13	15"	6.30	3.8	5.0	12	3	A
RR FES F15	18"	7.50	4.5	6.0	12	3	A

⑥ RIPRAP OUTLET PROTECTION

N.T.S.

⑥

TEMPORARY/PERMANENT SEEDING

N.T.S.

MAINTENANCE NOTES:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM. IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED; IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

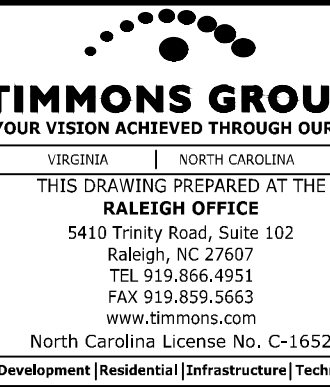
CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

CONSTRUCTION SEQUENCE

- CLEAR, GRUB, AND STRIP THE AREA UNDER THE EMBANKMENT OF ALL VEGETATION AND ROOT MAT. REMOVE ALL SURFACE SOIL CONTAINING HIGH AMOUNTS OF ORGANIC MATTER AND STOCKPILE OR DISPOSE OF IT PROPERLY. HAUL ALL OBJECTIONABLE MATERIAL TO THE DESIGNATED DISPOSAL AREA. PLACE TEMPORARY SEDIMENT CONTROL MEASURES BELOW BASIN AS NEEDED.
- ENSURE THAT FILL MATERIAL FOR THE EMBANKMENT IS FREE OF ROOTS, WOODY VEGETATION, ORGANIC MATTER, AND OTHER OBJECTIONABLE MATERIAL. PLACE THE FILL IN LIFTS NOT TO EXCEED 8 INCHES, AND MACHINE COMPACT IT. OVER FILL THE EMBANKMENT 6 INCHES TO ALLOW FOR SETTLEMENT.
- SHAPE THE BASIN TO THE SPECIFIED DIMENSIONS. PREVENT THE SKIMMING DEVICE FROM SETTLING INTO THE MUD BY EXCAVATING A SHALLOW PIT UNDER THE SKIMMER OR PROVIDING A LOW SUPPORT UNDER THE SKIMMER OF STONE OR TIMBER.
- PLACE THE BARREL (TYPICALLY 4-INCH SCHEDULE 40 PVC PIPE) ON A FIRM, SMOOTH FOUNDATION OF IMPERVIOUS SOIL. DO NOT USE PERVIOUS MATERIAL SUCH AS SAND, GRAVEL, OR CRUSHED STONE AS BACKFILL AROUND THE PIPE. PLACE THE FILL MATERIAL AROUND THE PIPE SLOPE, IN LAYERS AND COMPACT IT UNDER AND AROUND THE PIPE TO AT LEAST THE SAME DENSITY AS THE ADJACENT EMBANKMENT. CARE MUST BE TAKEN NOT TO RAISE THE PIPE FROM THE FIRM CONTACT WITH ITS FOUNDATION WHEN COMPACTING UNDER THE PIPE HAUNCHES. PLACE A MINIMUM DEPTH OF 2 FEET OF COMPACTED BACKFILL OVER THE PIPE SPILLWAY BEFORE CROSSING IT WITH CONSTRUCTION EQUIPMENT. IN NO CASE SHOULD THE PIPE CONDUIT BE INSTALLED BY CUTTING A TRENCH THROUGH THE DAM AFTER THE EMBANKMENT IS COMPLETE.
- ASSEMBLE THE SKIMMER FOLLOWING THE MANUFACTURERS INSTRUCTIONS, OR AS DESIGNED.
- LAY THE ASSEMBLED SKIMMER ON THE BOTTOM OF THE BASIN WITH THE FLEXIBLE JOINT AT THE INLET OF THE BARREL PIPE. ATTACH THE FLEXIBLE JOINT TO THE BARREL PIPE AND POSITION THE SKIMMER OVER THE EXCAVATED PIT OR SUPPORT. BE SURE TO ATTACH A ROPE TO THE SKIMMER AND ANCHOR IT TO THE SIDE OF THE BASIN. THIS WILL BE USED TO PULL THE SKIMMER TO THE SIDE FOR MAINTENANCE.
- EARTHEN SPILLWAYS--INSTALL THE SPILLWAY IN UNDISTURBED SOIL TO THE GREATEST EXTENT POSSIBLE. THE ACHIEVEMENT OF PLANNED ELEVATIONS, GRADE, DESIGN WIDTH, AND ENTRANCE AND EXIT CHANNEL SLOPES ARE CRITICAL TO THE SUCCESSFUL OPERATION OF THE SPILLWAY. THE SPILLWAY SHOULD BE LINED WITH LAMINATED PLASTIC OR IMPERMEABLE GEOTEKSTILE FABRIC. THE FABRIC MUST BE WIDE AND LONG ENOUGH TO COVER THE BOTTOM AND SIDES AND EXTEND ONTO THE TOP OF THE DAM FOR ANCHORING IN A TRENCH. THE EDGES MAY BE SECURED WITH 8-INCH STAPLES OR PINS. THE FABRIC MUST BE LONG ENOUGH TO EXTEND DOWN THE SLOPE AND EXIT ONTO STABLE GROUND. THE WIDTH OF THE FABRIC MUST BE ONE PIECE, NOT JOINED OR SPLICED; OTHERWISE WATER CAN GET UNDER THE FABRIC. IF THE LENGTH OF THE FABRIC IS INSUFFICIENT FOR THE ENTIRE LENGTH OF THE SPILLWAY, MULTIPLE SECTIONS, SPANNING THE COMPLETE WIDTH, MAY BE USED. THE UPPER SECTIONS SHOULD OVERLAP THE LOWER SECTIONS SO THAT WATER CANNOT FLOW UNDER THE FABRIC. SECURE THE UPPER EDGE AND SIDES OF THE FABRIC IN A TRENCH WITH STAPLES OR PINS. (ADAPTED FROM 'A MANUAL FOR DESIGNING, INSTALLING AND MAINTAINING SKIMMER SEDIMENT BASINS.' FEBRUARY, 1999. J.W. FAIRCLOTH & SON.)
- INLETS--DISCHARGE WATER INTO THE BASIN IN A MANNER TO PREVENT EROSION. USE TEMPORARY SLOPE DRAINS OR DIVERSIONS WITH OUTLET PROTECTION TO DIVERST SEDIMENT. ADJEN WATER TO THE UPPER END OF THE POOL AREA TO IMPROVE BASIN TRAP EFFICIENCY (REFERENCES: RUNOFF CONTROL MEASURES AND OUTLET PROTECTION).
- EROSION CONTROL--CONSTRUCT THE STRUCTURE SO THAT THE DISTURBED AREA IS MINIMIZED. DIVERT SURFACE WATER AWAY FROM BARE AREAS. COMPLETE THE EMBANKMENT BEFORE THE AREA IS CLEARED. STABILIZE THE EMERGENCY SPILLWAY EMBANKMENT AND ALL OTHER DISTURBED AREAS ABOVE THE CREST OF THE PRINCIPAL SPILLWAY IMMEDIATELY AFTER CONSTRUCTION (REFERENCES: SURFACE STABILIZATION).
- INSTALL POROUS BAFFLES AS SPECIFIED IN PRACTICE 6.65
- AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL THE UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY (REFERENCES: SURFACE STABILIZATION).

MOSELEYARCHITECTS



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	800646
DATE:	August 14, 2023
REVISIONS	
DATE	DESCRIPTION

SITE DETAILS

C6.9

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.

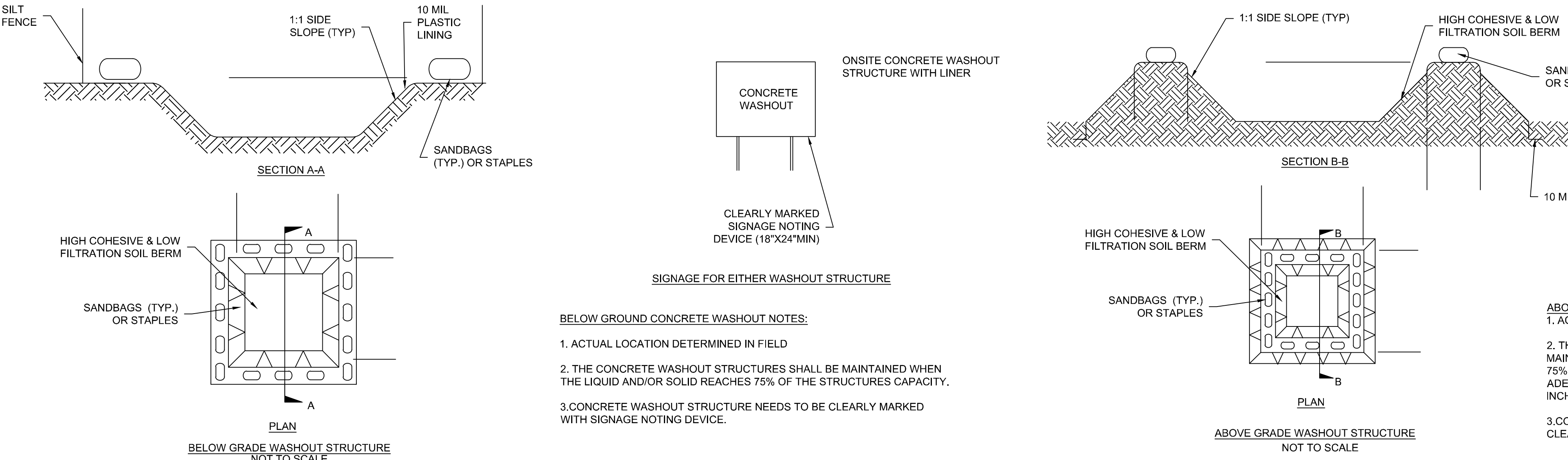
SECTION E: GROUND STABILIZATION		
REQUIRED GROUND STABILIZATION TIMEFRAMES		
SITE AREA DESCRIPTION	STABILIZE WITHIN THIS MANY CALENDAR DAYS AFTER CEASING LAND DISTURBANCE	TIMEFRAME VARIATIONS
(A) PERIMETER DIKES, SWALES, DITCHES, AND PERIMETER SLOPES	7	NONE
(B) HIGH QUALITY WATER (HOW) ZONES	7	NONE
(C) 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 > 50' IN LENGTH AND WITH SLOPES STEEPER THAN 4:1 -7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND HOW 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 HOW 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">TEMPORARY GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERSHYDROSEEDINGROLLED EROSION CONTROL PRODUCTS WITH OR WITHOUT TEMPORARY GRASS SEEDAPPROPRIATELY APPLIED STRAW OR OTHER MULCHPLASTIC SHEETING	<ul style="list-style-type: none">PERMANENT GRASS SEED COVERED WITH STRAW OR OTHER MULCHES AND TACKIFIERSGEOTEXTILE FABRICS SUCH AS PERMANENT SOIL REINFORCEMENT MATTINGHYDROSEEDINGSHRUBS OR OTHER PERMANENT PLANTINGS COVERED WITH MULCHUNIFORM AND EVENLY DISTRIBUTED GROUND COVER SUFFICIENT TO RESTRAIN EROSIONSTRUCTURAL METHODS SUCH AS CONCRETE, ASPHALT OR RETAINING WALLSROLLED EROSION CONTROL PRODUCTS WITH GRASS SEED

- POLYACRYLAMIDES (PAMS) AND FLOCCULANTS**
- SELECT FLOCCULANTS THAT ARE APPROPRIATE FOR THE SOILS BEING EXPOSED DURING CONSTRUCTION, SELECTING FROM THE NC DWIR LIST OF APPROVED PAMS/FLOCCULANTS.
 - APPLY FLOCCULANTS AT OR BEFORE THE INLETS TO EROSION AND SEDIMENT CONTROL MEASURES.
 - APPLY FLOCCULANTS AT THE CONCENTRATIONS SPECIFIED IN THE NC DWIR LIST OF APPROVED PAMS/FLOCCULANTS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 - PROVIDE PONDING AREA FOR CONTAINMENT OF TREATED STORMWATER BEFORE DISCHARGING OFFSITE.
 - STORE FLOCCULANTS IN LEAK-PROOF CONTAINERS THAT ARE KEPT UNDER STORM-RESISTANT COVER OR SURROUNDED BY SECONDARY CONTAINMENT STRUCTURES.

- EQUIPMENT AND VEHICLE MAINTENANCE**
- MAINTAIN VEHICLES AND EQUIPMENT TO PREVENT DISCHARGE OF FLUIDS.
 - PROVIDE DRIP PANS UNDER ANY STORED EQUIPMENT.
 - IDENTIFY LEAKS AND REPAIR AS SOON AS FEASIBLE, OR REMOVE LEAKING EQUIPMENT FROM THE PROJECT.
 - COLLECT ALL SPENT FLUIDS, STORE IN SEPARATE CONTAINERS AND PROPERLY DISPOSE AS HAZARDOUS WASTE (RECYCLE WHEN POSSIBLE).
 - REMOVE LEAKING VEHICLES AND CONSTRUCTION EQUIPMENT FROM SERVICE UNTIL THE PROBLEM HAS BEEN CORRECTED.
 - BRING USED FUELS, LUBRICANTS, COOLANTS, HYDRAULIC FLUIDS AND OTHER PETROLEUM PRODUCTS TO A RECYCLING OR DISPOSAL CENTER THAT HANDLES THESE MATERIALS.



CONCRETE WASHOUT		N.T.S.
(A) LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE <ol style="list-style-type: none">NEVER BURY OR BURN WASTE. PLACE LITTER AND DEBRIS IN APPROVED WASTE CONTAINERS.PROVIDE A SUFFICIENT NUMBER AND SIZE OF WASTE CONTAINERS (E.G DUMPSTER, TRASH RECEPTACLE) ON SITE TO CONTAIN CONSTRUCTION AND DOMESTIC WASTES.LOCATE WASTE CONTAINERS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.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.COVER WASTE CONTAINERS AT THE END OF EACH WORKDAY AND BEFORE STORM EVENTS OR PROVIDE SECONDARY CONTAINMENT. REPAIR OR REPLACE DAMAGED WASTE CONTAINERS.ANCHOR ALL LIGHTWEIGHT ITEMS IN WASTE CONTAINERS DURING TIMES OF HIGH WINDS.EMPTY WASTE CONTAINERS AS NEEDED TO PREVENT OVERFLOW. CLEAN UP IMMEDIATELY IF CONTAINERS OVERFLOW.DISPOSE WASTE OFF-SITE AT AN APPROVED DISPOSAL FACILITY.ON BUSINESS DAYS, CLEAN UP AND DISPOSE OF WASTE IN DESIGNATED WASTE CONTAINERS.	CONCRETE WASHOUTS <ol style="list-style-type: none">DO NOT DISCHARGE CONCRETE OR CEMENT SLURRY FROM THE SITE.DISPOSE OF, OR RECYCLE SETTLED, HARDENED CONCRETE RESIDUE IN ACCORDANCE WITH LOCAL AND STATE SOLID WASTE REGULATIONS AND AT AN APPROVED FACILITY.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.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.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.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.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.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.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.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.	
PAINT AND OTHER LIQUID WASTE <ol style="list-style-type: none">DO NOT DUMP PAINT AND OTHER LIQUID WASTE INTO STORM DRAINS, STREAMS OR WETLANDS.LOCATE PAINT WASHOUTS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS AND SURFACE WATERS UNLESS NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.CONTAIN LIQUID WASTES IN A CONTROLLED AREA.CONTAINMENT MUST BE LABELED, SIZED AND PLACED APPROPRIATELY FOR THE NEEDS OF SITE.PREVENT THE DISCHARGE OF SOAPS, SOLVENTS, DETERGENTS AND OTHER LIQUID WASTES FROM CONSTRUCTION SITES.	HERBICIDES, PESTICIDES AND RODENTICIDES <ol style="list-style-type: none">STORE AND APPLY HERBICIDES, PESTICIDES AND RODENTICIDES IN ACCORDANCE WITH LABEL RESTRICTIONS.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.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.DO NOT STOCKPILE THESE MATERIALS ONSITE.	
PORTABLE TOILETS <ol style="list-style-type: none">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.PROVIDE STAKING OR ANCHORING OF PORTABLE TOILETS DURING PERIODS OF HIGH WINDS OR IN HIGH FOOT TRAFFIC AREAS.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.	HAZARDOUS AND TOXIC WASTE <ol style="list-style-type: none">CREATE DESIGNATED HAZARDOUS WASTE COLLECTION AREAS ON-SITE.PLACE HAZARDOUS WASTE CONTAINERS UNDER COVER OR IN SECONDARY CONTAINMENT.DO NOT STORE HAZARDOUS CHEMICALS, DRUMS OR BAGGED MATERIALS DIRECTLY ON THE GROUND.	
EARTHEN STOCKPILE MANAGEMENT <ol style="list-style-type: none">SHOW STOCKPILE LOCATIONS ON PLANS. LOCATE EARTHEN-MATERIAL STOCKPILE AREAS AT LEAST 50 FEET AWAY FROM STORM DRAIN INLETS, SEDIMENT BASINS, PERIMETER SEDIMENT CONTROLS AND SURFACE WATERS UNLESS IT CAN BE SHOWN NO OTHER ALTERNATIVES ARE REASONABLY AVAILABLE.PROTECT STOCKPILE WITH SILT FENCE INSTALLED ALONG TOE OF SLOPE WITH A MINIMUM OFFSET OF FIVE FEET FROM THE TOE OF STOCKPILE.PROVIDE STABLE STONE ACCESS POINT WHEN FEASIBLE.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.		

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

EFFECTIVE: 04/01/19

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)	TIMEFRAME VARIATIONS
(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-DAY 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-MONITORING DEVICE APPROVED BY THE DIVISION.
(2) E&SC MEASURES	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 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 WEATHER 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 (SDOS)	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 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. 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 ≥ 1.0 INCH IN 24 HOURS	IF VISIBLE SEDIMENTATION 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 ON SITE OR OFFSITE (WHERE ACCESSIBLE)	AT LEAST ONCE PER 7 CALENDAR DAYS AND WITHIN 24 HOURS OF A RAIN EVENT ≥ 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 KEPT ON SITE AND AVAILABLE FOR INSPECTION AT ALL TIMES DURING NORMAL BUSINESS HOURS.	
OCCURRENCE	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 EACH E&SC MEASURE ON 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 TO BE KEPT ON SITE IN ADDITION TO THE E&SC PLAN DOCUMENTS ABOVE, THE FOLLOWING ITEMS SHALL BE KEPT ON THE SITE AND AVAILABLE FOR 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 TWELVE MONTHS. 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.	
3. DOCUMENTATION TO BE RETAINED FOR THREE YEARS ALL DATA USED TO COMPLETE THE E-NOI AND ALL 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: <ul style="list-style-type: none">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), ORTHEY 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 DEPARTMENT'S ENVIRONMENTAL EMERGENCY CENTER PERSONNEL AT (800) 858-0368.	
OCCURRENCE	REPORTING TIMEFRAMES (AFTER DISCOVERY) AND OTHER REQUIREMENTS
(A) VISIBLE SEDIMENT DEPOSITION IN A STREAM OR WETLAND	<ul style="list-style-type: none">WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATIONWITHIN 7 CALENDAR DAYS, 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.IF THE STREAM IS NAMED ON THE NC 303(D) LIST 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
(B) OIL SPILLS AND RELEASE OF HAZARDOUS SUBSTANCES PER ITEM 1 (B)-(C) ABOVE	<ul style="list-style-type: none">WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATION. THE NOTIFICATION SHALL INCLUDE INFORMATION ABOUT THE DATE, TIME, NATURE, VOLUME, AND LOCATION OF THE SPILL OR RELEASE
(C) ANTICIPATED BYPASSES [40 CFR 122.41(M)(3)]	<ul style="list-style-type: none">A REPORT AT LEAST TEN DAYS BEFORE THE DATE OF THE BYPASS, IF POSSIBLE. THE REPORT SHALL INCLUDE AN EVALUATION OF THE ANTICIPATED QUALITY AND EFFECT OF THE BYPASS
(D) UNANTICIPATED BYPASSES [40 CFR 122.41(M)(3)]	<ul style="list-style-type: none">WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATIONWITHIN 7 CALENDAR DAYS, A REPORT THAT INCLUDES AN EVALUATION OF THE QUALITY AND EFFECT OF THE BYPASS
(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">WITHIN 24 HOURS, AN ORAL OR ELECTRONIC NOTIFICATIONWITHIN 7 CALENDAR DAYS, 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 REOCCURRENCE OF THE NONCOMPLIANCE. [40 CFR 122.41(I)(6)]DIVISION STAFF MAY WAIVE THE REQUIREMENT FOR A WRITTEN REPORT ON A CASE BY CASE BASIS

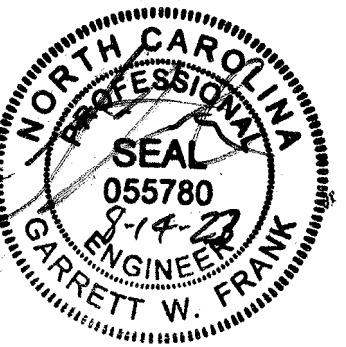
**PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT**

SEDIMENT BASINS AND TRAPS THAT RECEIVE RUNOFF FROM DRAINAGE AREAS OF ONE ACRE OR MORE SHALL USE OUTLET STRUCTURES THAT WITHDRAW WATER FROM THE SURFACE WHEN THESE DEVICES NEED TO BE DRAWN DOWN FOR MAINTENANCE OR CLOSE OUT UNLESS THIS IS INFEASIBLE. THE CIRCUMSTANCES IN WHICH IT IS NOT FEASIBLE TO WITHDRAW WATER FROM THE SURFACE SHALL BE RARE (FOR EXAMPLE, TIMES WITH EXTENDED COLD WEATHER). NON-SURFACE WITHDRAWALS FROM SEDIMENT BASINS SHALL BE ALLOWED ONLY WHEN ALL OF THE FOLLOWING CRITERIA HAVE BEEN MET:

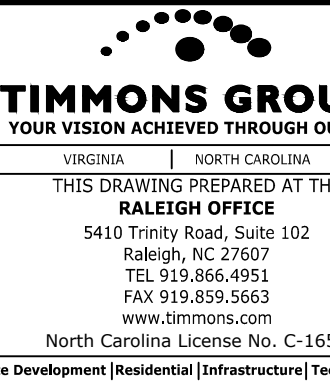
- THE E&SC PLAN AUTHORITY HAS BEEN PROVIDED WITH DOCUMENTATION OF THE NON-SURFACE WITHDRAWAL AND THE SPECIFIC TIME PERIODS OR CONDITIONS IN WHICH IT WILL OCCUR. THE NON-SURFACE WITHDRAWAL SHALL NOT COMMENCE UNTIL THE E&SC PLAN AUTHORITY HAS APPROVED THESE ITEMS,
- THE NON-SURFACE WITHDRAWAL HAS BEEN REPORTED AS AN ANTICIPATED BYPASS IN ACCORDANCE WITH PART III, SECTION C, ITEM (2)(C) AND (D) OF THIS PERMIT,
- DEWATERING DISCHARGES ARE TREATED WITH CONTROLS TO MINIMIZE DISCHARGES OF POLLUTANTS FROM STORMWATER THAT IS REMOVED FROM THE SEDIMENT BASIN. EXAMPLES OF APPROPRIATE CONTROLS INCLUDE PROPERLY SITED, DESIGNED AND MAINTAINED DEWATERING TANKS, WEIR TANKS, AND FILTRATION SYSTEMS,
- VEGETATED, UPLAND AREAS OF THE SITES OR A PROPERLY DESIGNED STONE PAD IS USED TO THE EXTENT FEASIBLE AT THE OUTLET OF THE DEWATERING TREATMENT DEVICES DESCRIBED IN ITEM (C) ABOVE,
- VELOCITY DISSIPATION DEVICES SUCH AS CHECK DAMS, SEDIMENT TRAPS, AND RIPRAP ARE PROVIDED AT THE DISCHARGE POINTS OF ALL DEWATERING DEVICES, AND
- SEDIMENT REMOVED FROM THE DEWATERING TREATMENT DEVICES DESCRIBED IN ITEM (C) ABOVE IS DISPOSED OF IN A MANNER THAT DOES NOT CAUSE DEPOSITION OF SEDIMENT INTO WATERS OF THE UNITED STATES.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

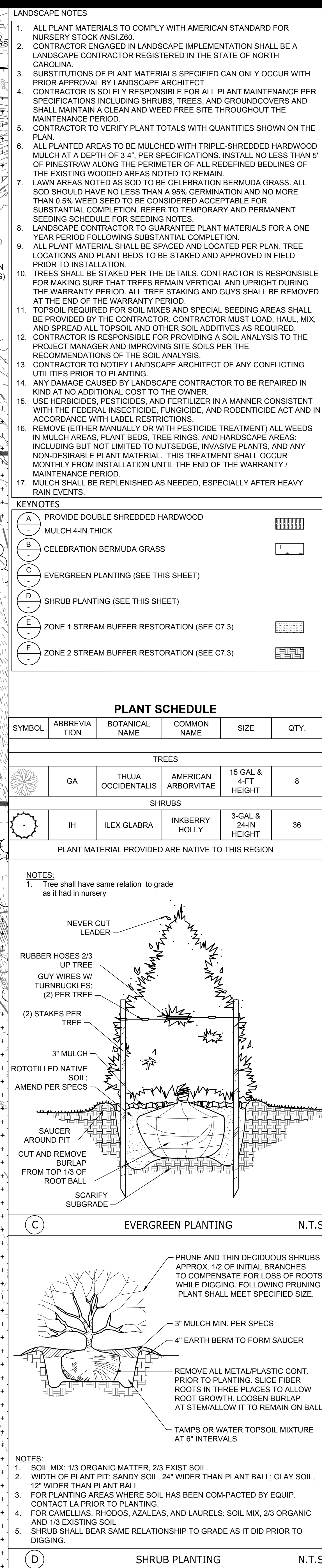
EFFECTIVE: 04/01/19





PROJECT NO: 800846	August 14, 2023
DATE:	REVISIONS
DATE:	DESCRIPTION



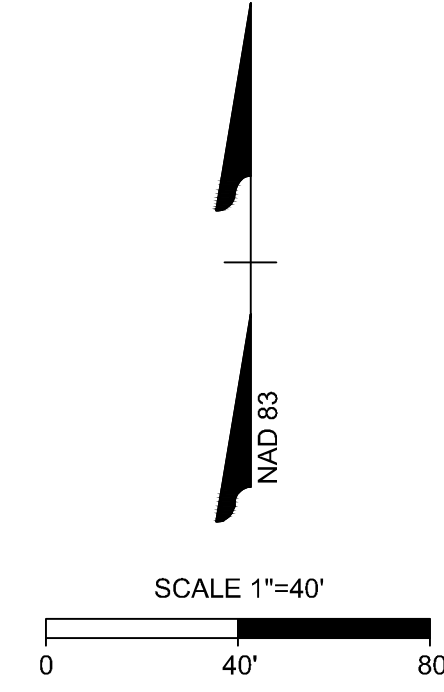
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ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

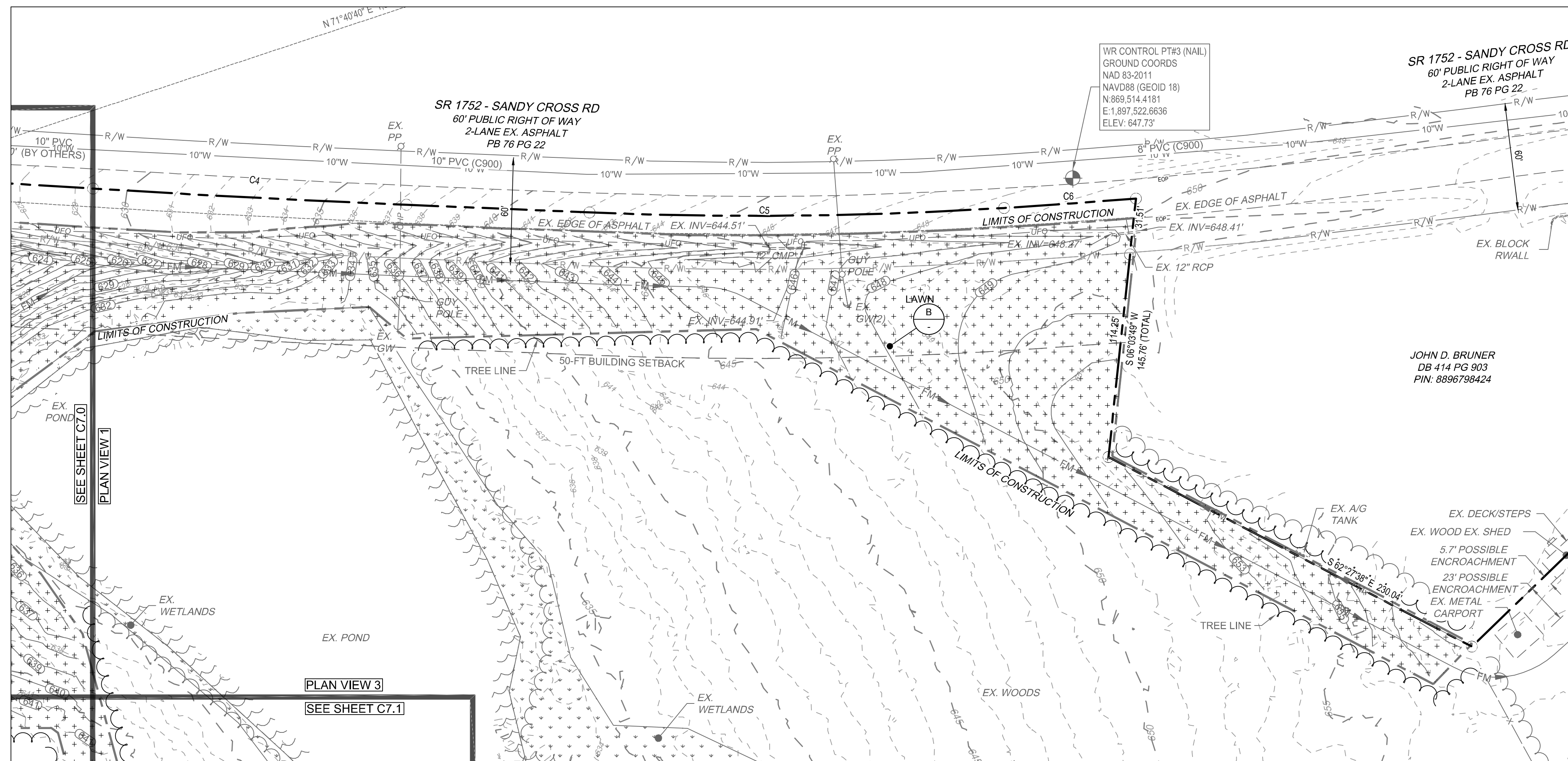


- | KEYNOTES | | |
|----------|--|---|
| (A
-) | PROVIDE DOUBLE SHREDDED HARDWOOD
MULCH 4-IN THICK |  |
| (B
-) | CELEBRATION BERMUDA GRASS |  |

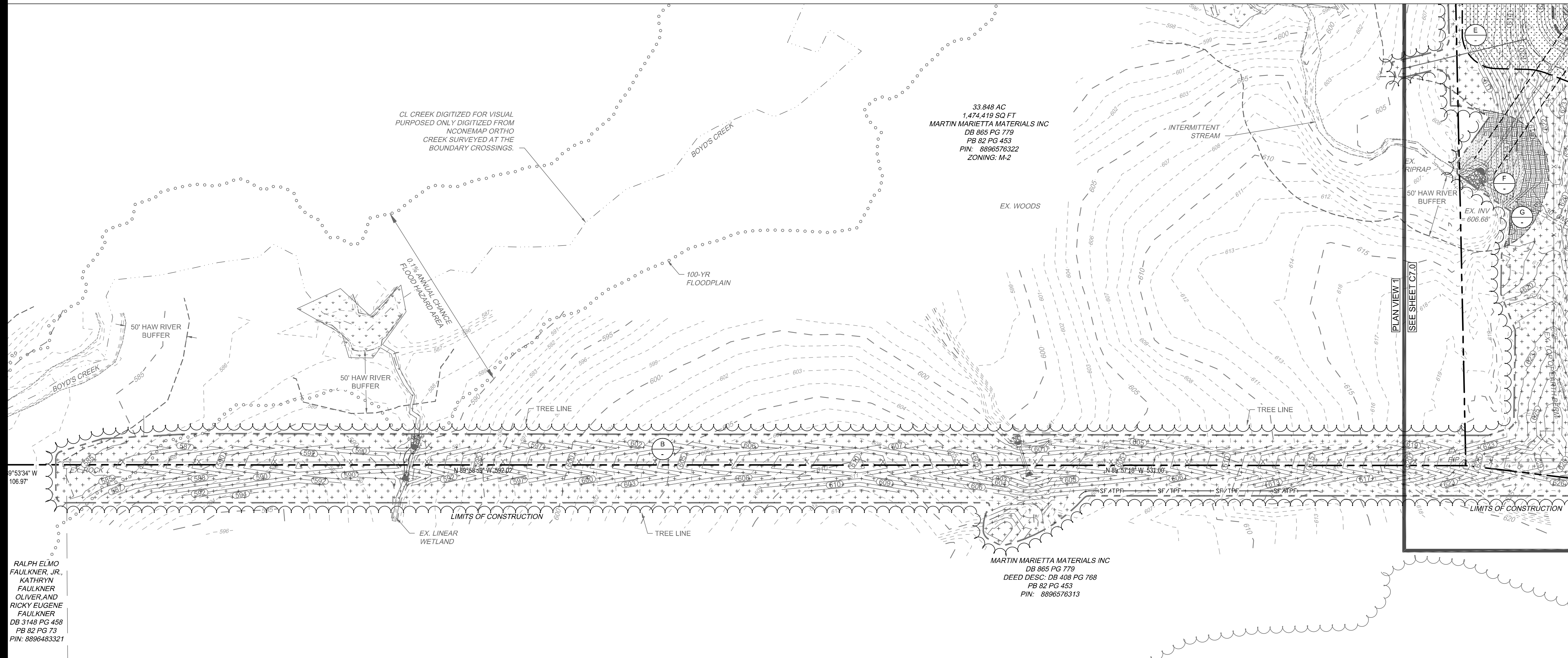
MARTIN MARIETTA MATERIALS INC
DB 865 PG 779
PIN: 8896780128
ZONING: M-2
AEX. PPROXIMATE ACREAGE: 36.8
ACRES

VILLAGE MOBILE
HOME PARK LLC
DB 3969 PG 386
PB 41 PG 192
PIN: 8896777840





PLAN VIEW 4



PLAN VIEW 5

RALPH ELMO
FAULKNER, JR.,
KATHRYN
FAULKNER
OLIVER, AND
RICKY EUGENE
FAULKNER
DB 3148 PG 458
PB 82 PG 73
PIN: 8896483321

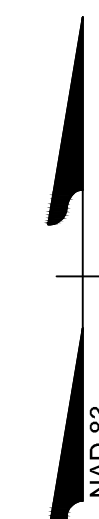
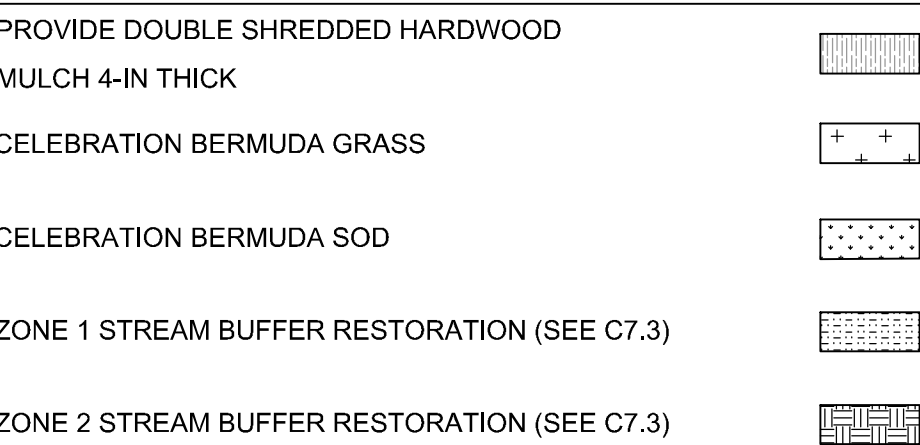
MARTIN MARIETTA MATERIALS INC
DB 865 PG 779
DEED DESC: DB 408 PG 768
PB 82 PG 453
PIN: 8896576313

LANDSCAPE NOTES

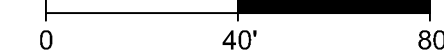
1. ALL PLANT MATERIALS TO COMPLY WITH AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.
2. CONTRACTOR ENGAGED IN LANDSCAPE IMPLEMENTATION SHALL BE A LANDSCAPE CONTRACTOR REGISTERED IN THE STATE OF NORTH CAROLINA.
3. SUBSTITUTIONS OF PLANT MATERIALS SPECIFIED CAN ONLY OCCUR WITH PRIOR APPROVAL BY LANDSCAPE ARCHITECT
4. CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MAINTENANCE PER SPECIFICATIONS INCLUDING SHRUBS, TREES, AND GROUNDCOVERS AND SHALL MAINTAIN A CLEAN AND WEED FREE SITE THROUGHOUT THE MAINTENANCE PERIOD.
5. CONTRACTOR TO VERIFY PLANT TOTALS WITH QUANTITIES SHOWN ON THE PLAN.
6. ALL PLANTED AREAS TO BE MULCHED WITH TRIPLE-SHEDEDDED HARDWOOD MULCH 1" DEPTH TO SPECIFICATIONS. INSTALL NO LESS THAN 5' OF PINESTRAW ALONG THE PERIMETER OF ALL REDEFINED BEDDINGS OF THE EXISTING WOODED AREAS NOTED TO REMAIN.
7. LAWN AREAS NOTED AS SOO TO BE CELEBRATION BERMUDA GRASS. ALL SOO SHOULD HAVE A 10% SEED RATIO TO PROMOTE GERMINATION AND NO MORE THAN 0.5% WEED SEED TO BE CONSIDERED ACCEPTABLE FOR SUBSTANTIAL COMPLETION. REFER TO TEMPORARY AND PERMANENT SOO SCHEDULE FOR ADDITIONAL DETAILS.
8. LANDSCAPE CONTRACTOR TO GUARANTEE PLANT MATERIALS FOR A ONE YEAR PERIOD FOLLOWING SUBSTANTIAL COMPLETION.
9. ALL PLANT MATERIAL SHALL BE SPACED AND LOCATED PER PLAN, TREE PLANTATIONS AND PLANT BEDS TO BE STAKED AND APPROVED IN FIELD PRIOR TO INSTALLATION.
10. TREES SHALL BE STAKED PER THE DETAILS. CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE TREES REMAIN VERTICAL AND UPRIGHT DURING THE WARRANTY PERIOD. ALL TREE STAKING AND GUYS SHALL BE REMOVED AT THE END OF THE WARRANTY PERIOD.
11. TOPSOIL REQUIRED FOR SOIL MIXES AND SPECIAL SEEDING AREAS SHALL BE PROVIDED BY THE CONTRACTOR. CONTRACTOR TO OBTAIN A SOIL MIX, AND SPREAD ALL TOPSOIL AND OTHER SOIL ADDITIVES AS REQUIRED.
12. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A SOIL ANALYSIS TO THE PROJECT MANAGER AND IMPROVING SITE SOILS PER THE RECOMMENDATIONS.
13. CONTRACTOR TO NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTING UTILITIES PRIOR TO PLANTING.
14. LANDSCAPE CAUSED BY LANDSCAPE CONTRACTOR TO BE REPAIRED IN KIND AT NO ADDITIONAL COST TO THE OWNER.
15. USE HERBICIDES, PESTICIDES, AND FERTILIZER IN A MANNER CONSISTENT WITH THE FEDERAL, INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT AND IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
16. REMOVE (EITHER MANUALLY OR WITH PESTICIDE TREATMENT) ALL WEEDS IN MUCH AREAS, PLANT BEDS, TREE RINGS, AND HARDSCAPE AREAS. INCLUDING BUT NOT LIMITED TO NUTSEDGE, INVASIVE PLANTS, AND ANY OTHER DESIRABLE PERPETRATOR. THE OWNER SHALL BE RESPONSIBLE MONTHLY FROM INSTALLATION UNTIL THE END OF THE WARRANTY / MAINTENANCE PERIOD.
17. MULCH SHALL BE REFRESHED AS NEEDED, ESPECIALLY AFTER HEAVY RAIN EVENTS.

KEYNOTES

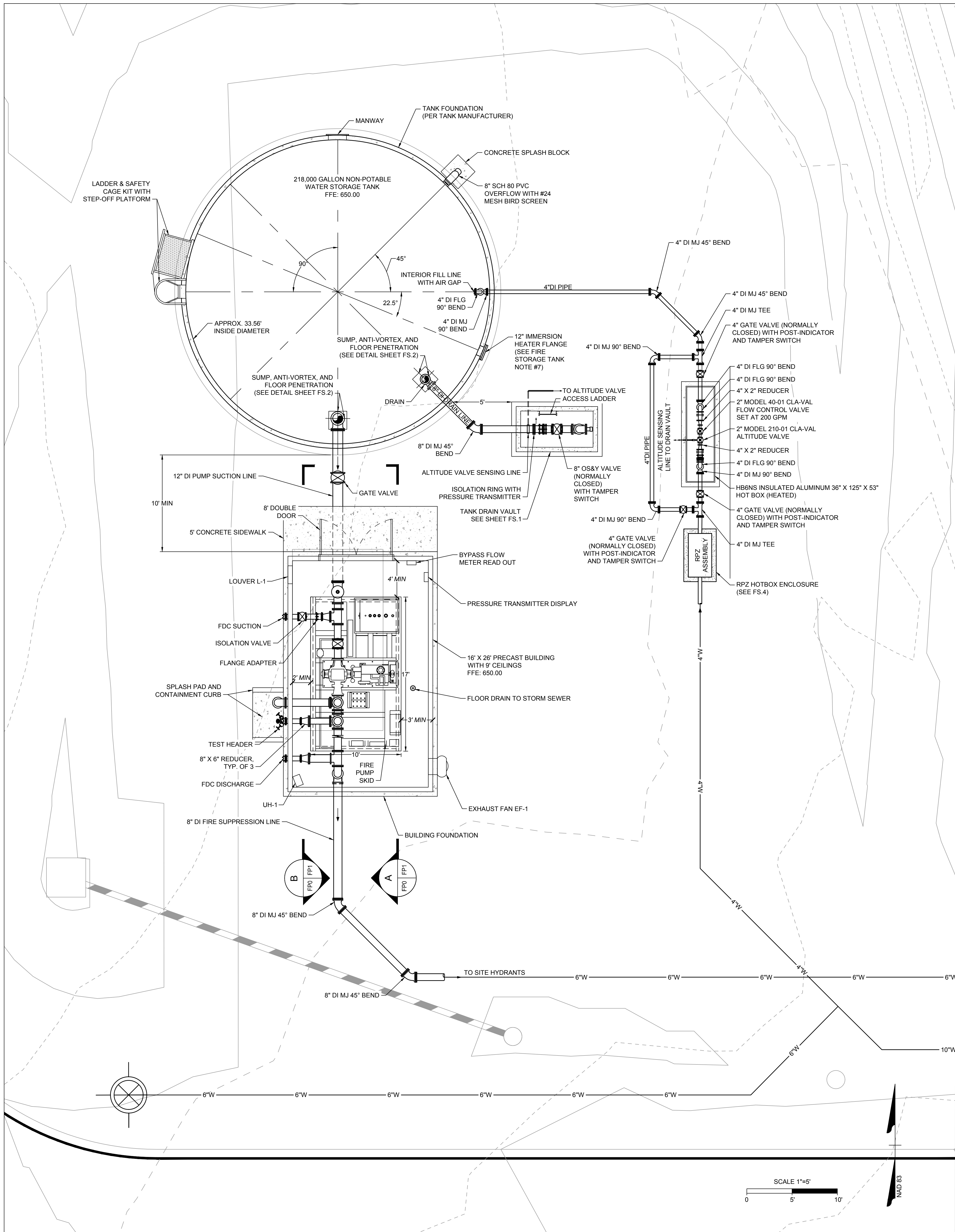
- | | |
|-----|---|
| (A) | PROVIDE DOUBLE SHREDDED HARDWOOD MULCH 4-IN THICK |
| (B) | CELEBRATION BERMUDA GRASS |
| (E) | CELEBRATION BERMUDA SOD |
| (F) | ZONE 1 STREAM BUFFER RESTORATION (SEE C7.3) |
| (G) | ZONE 2 STREAM BUFFER RESTORATION (SEE C7.3) |



SCALE 1"=40'



C7.3



SHEET NOTES

1. THE DETAILS SHOWN ON THE DRAWINGS INDICATE GENERAL INTENT ONLY. ALL SUCH SUCH ELEMENTS SHALL BE DESIGNED TO COMPLY WITH NFPA 13, 20, AND 22 AND NC FIRE CODE.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND CONNECTION REQUIREMENTS WITH THE MANUFACTURERS PRIOR TO ORDERING AND INSTALLING EQUIPMENT.
3. REFER TO STRUCTURAL DRAWINGS FOR SUBGRADE PREPARATION. TANK FOUNDATION SHALL BE DESIGNED BY TANK MANUFACTURER.
4. REFER TO FP3 FOR HVAC DESIGN.
5. PIPE SUPPORTS AND HANGERS REMOVED FOR CLARITY. SUPPORTS NOT SHOWN MAY BE BE NECESSARY. SUPPORT PIPES AS REQUIRED.
6. ALL BURIED PIPE SHALL BE DUCTILE IRON MECHANICAL JOINT CLASS 52 AND ALL ABOVE GRADE OR EXPOSED PIPE SHALL BE DUCTILE IRON FLANGED CLASS 53 UNLESS OTHERWISE NOTED.
7. RESTRAIN ALL JOINTS.
8. THE FIRE ALARM SYSTEM DESIGN AND ALL ASSOCIATED COMPONENTS SHALL COMPLY WITH NFPA 72 2013. ALL DEVICES PROVIDED SHALL BE LISTED FOR THEIR ENVIRONMENTAL RATING.

FIRE STORAGE TANK NOTES

1. HIGH WATER ALARM (HWA) AND LOW WATER ALARM (LWA) SHALL BE ANNUNCIATED AT THE FIRE PUMP CONTROL PANEL OR LOCATION DETERMINED BY THE OWNER.
2. PROVIDE TEMPERATURE SENSOR TO MEASURE CRITICAL WATER TEMPERATURE AS REQUIRED BY NFPA 20. TEMPERATURE SHALL BE MONITORED AT THE FIRE PUMP CONTROL PANEL OR LOCATION DETERMINED BY THE OWNER.
3. FLOAT SWITCHES (NON-MERCURY TYPE) SHALL BE USED TO MONITOR HWA AND LWA.
4. PROVIDE PRESSURE TRANSDUCER TO MONITOR TANK LEVEL.
5. PROVIDE TWO HILLSIDE NOZZLES FOR INSTALLATION OF THE FLOAT SWITCHES.
6. ALL PIPE UNDER TANK SLAB AND WITHIN 5' OF TANK SHELL SHALL BE CLASS 52 DUCTILE IRON.
7. THE IMMERSION HEATER SHALL HAVE THE CAPACITY TO ENSURE THAT THE TEMPERATURE OF THE COLDEST WATER IN THE TANK AND/OR THE RISER ARE BOTH AT OR ABOVE 42°F DURING COLD WEATHER.

On-site Fire System Calculations

Project: ACC Fire Tank
Project No: 49685
Prepared by: C. Petree
Prepared on: August 2023
Date Revised:



Fire Flow Requirements			
Description	Value	Unit	Notes
Needed Fire Flow	1,500	GPM	Assumed
Needed Duration	120	MIN	Assumed

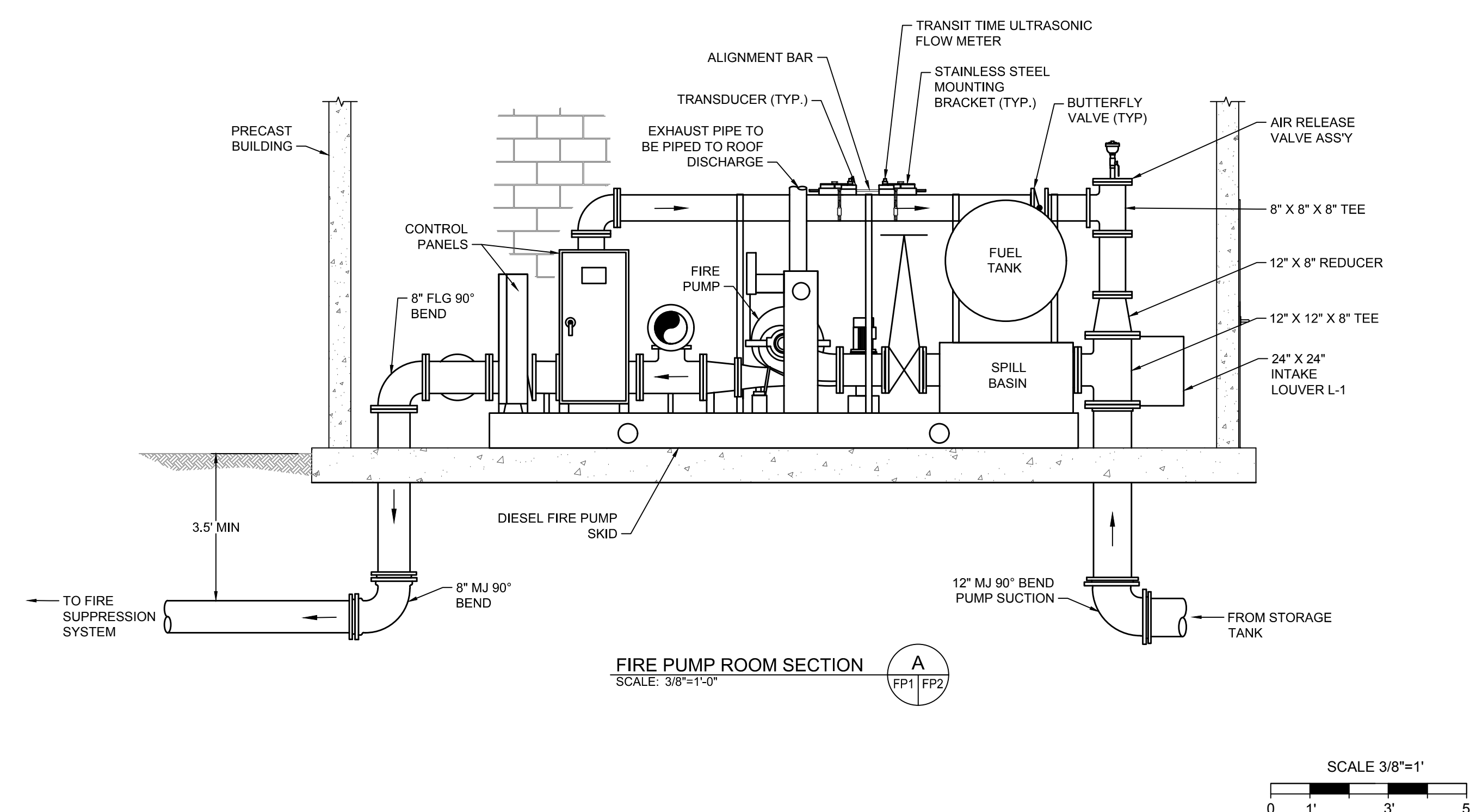
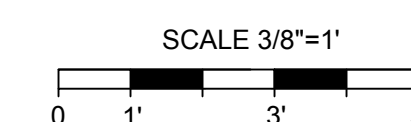
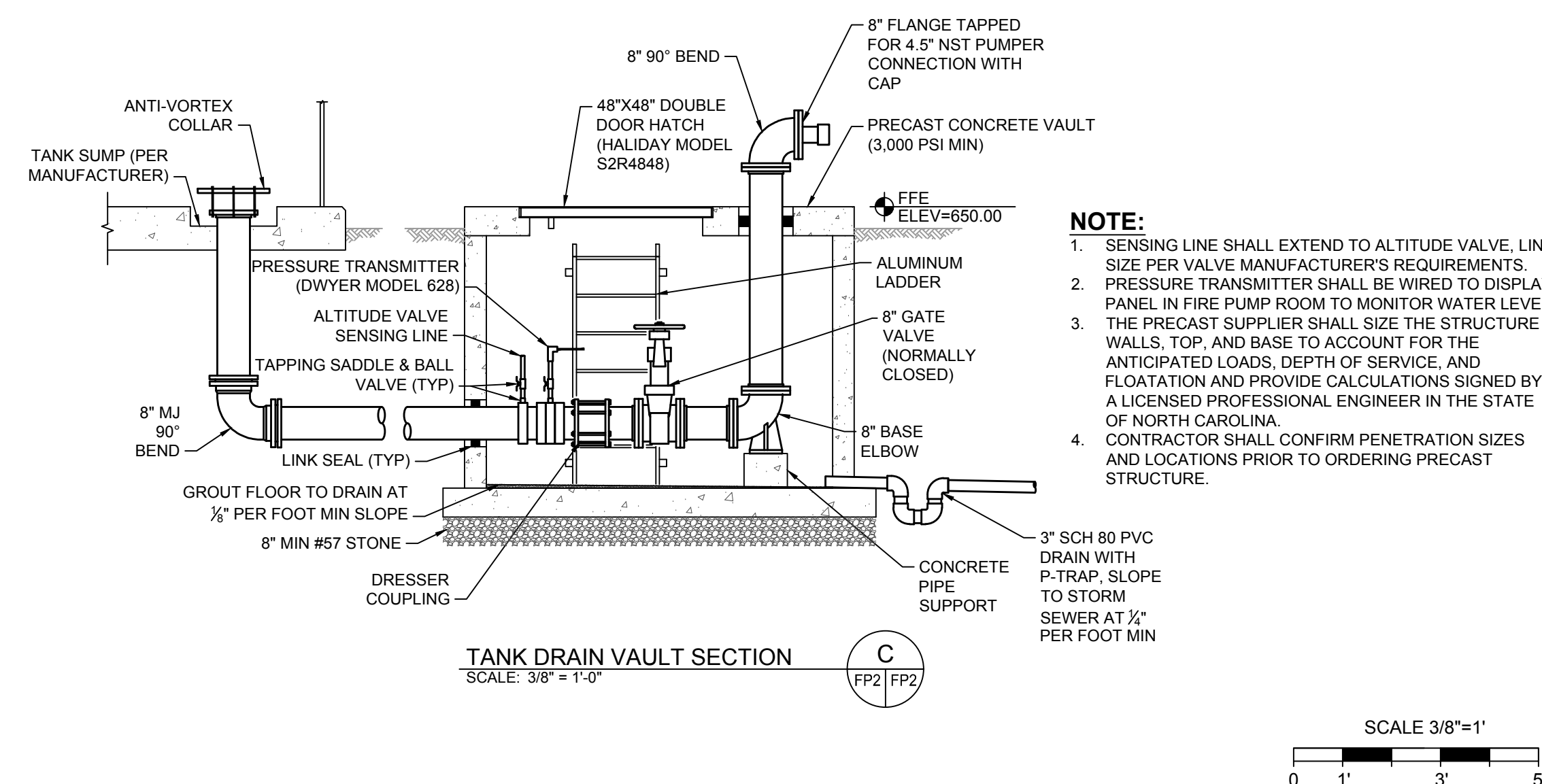
Fire Pump Selection			
Description	Value	Unit	Notes
Fire Pump Rate	1,500	GPM	Nominal Capacity
Discharge Pressure	60	PSI	From hydraulic model results

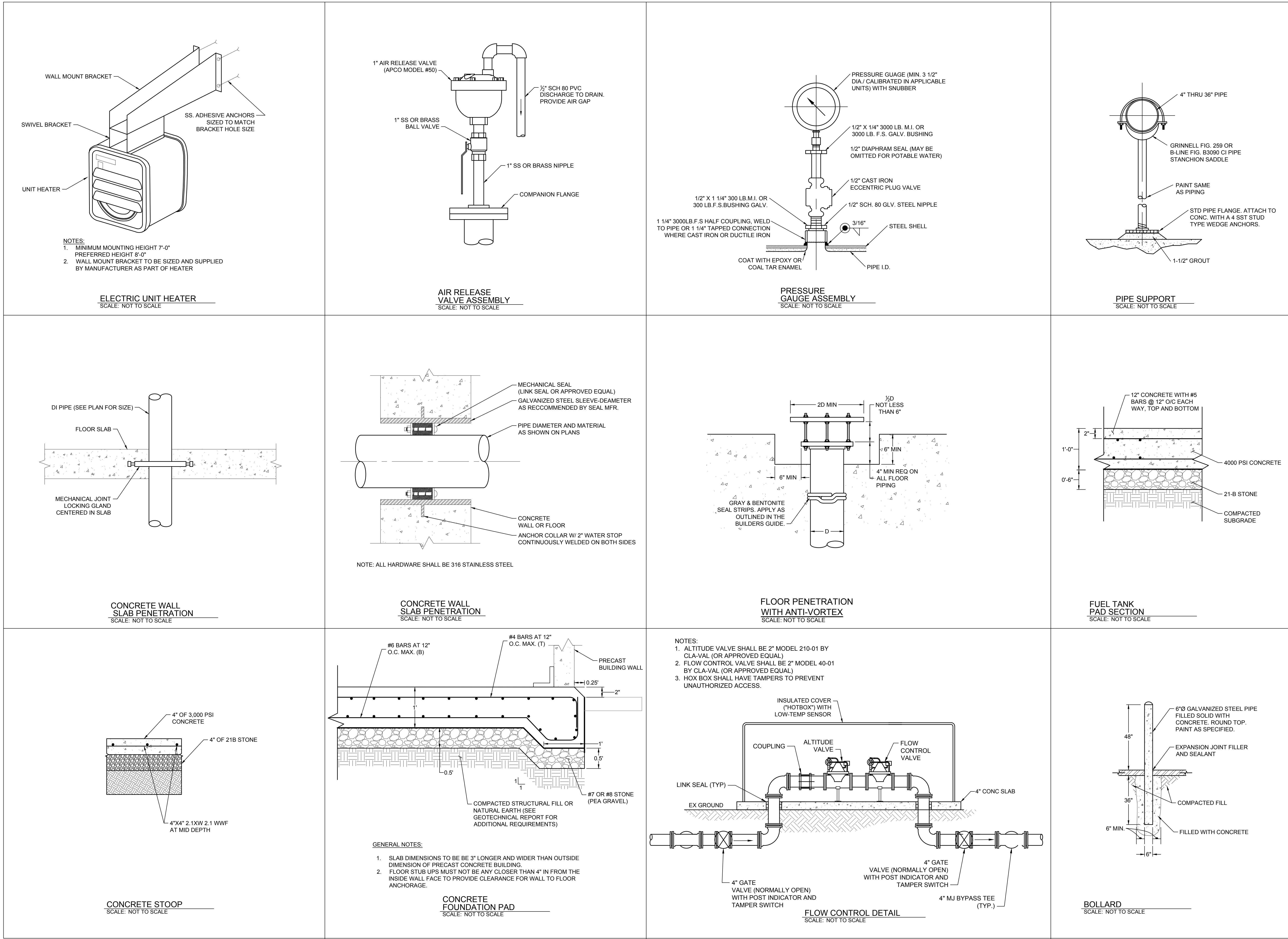
Storage Tank Calculations			
Description	Value	Unit	Notes
Tank Type	-	-	Glass-lined Bolted Steel
Manufacturer's Nominal Tank Volume	218,000	GAL	Nominal
Tank Inside Diameter	33.56	FT	From Manufacturer
Gallons per Foot	6,617	GAL	From Manufacturer
Tank Floor Elevation	650.00	FT AMSL	From Design Drawings
Low Water Alarm Elevation	653.50	FT AMSL	From Design Drawings, Also Pump Off elevation
Alt. Valve Open Elevation	672.00	FT AMSL	From Design Drawings
Alt. Valve Close Elevation	682.00	FT AMSL	From Design Drawings
Overflow Elevation	683.00	FT AMSL	From Design Drawings
Calculated Total Tank Volume	218,348	GAL	
Calculated Usable Tank Volume	188,573	GAL	

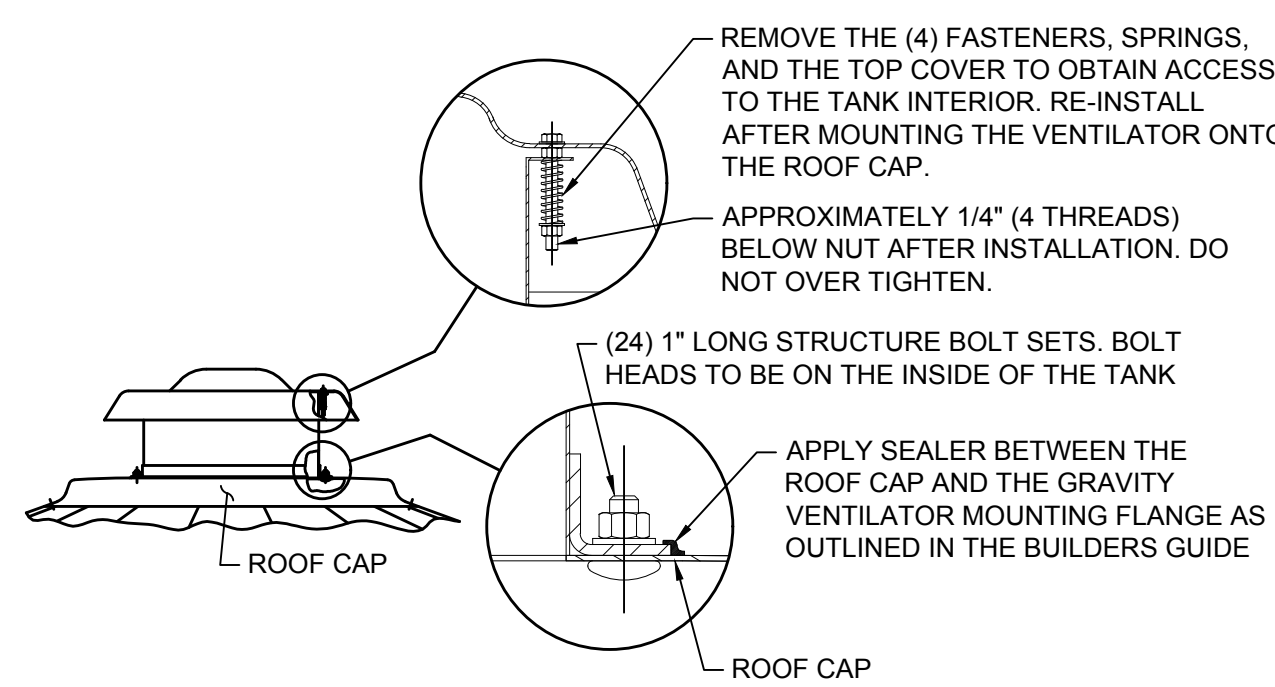
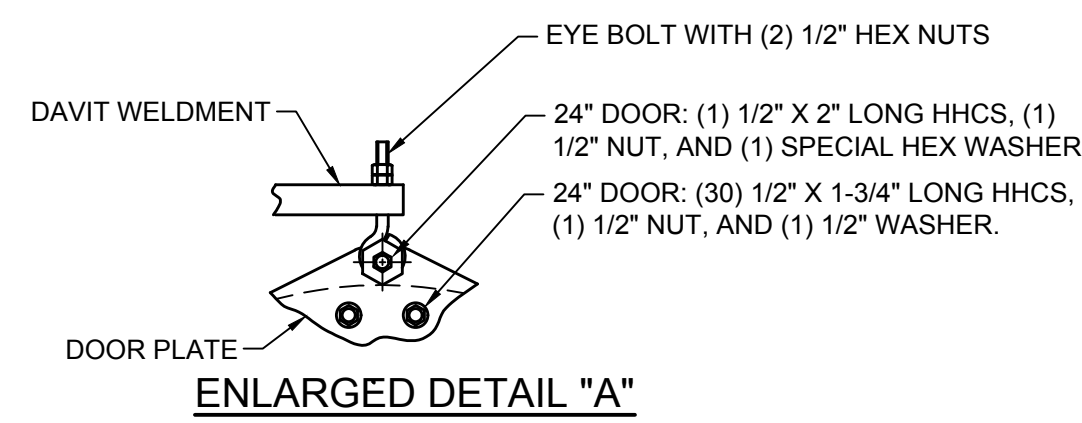
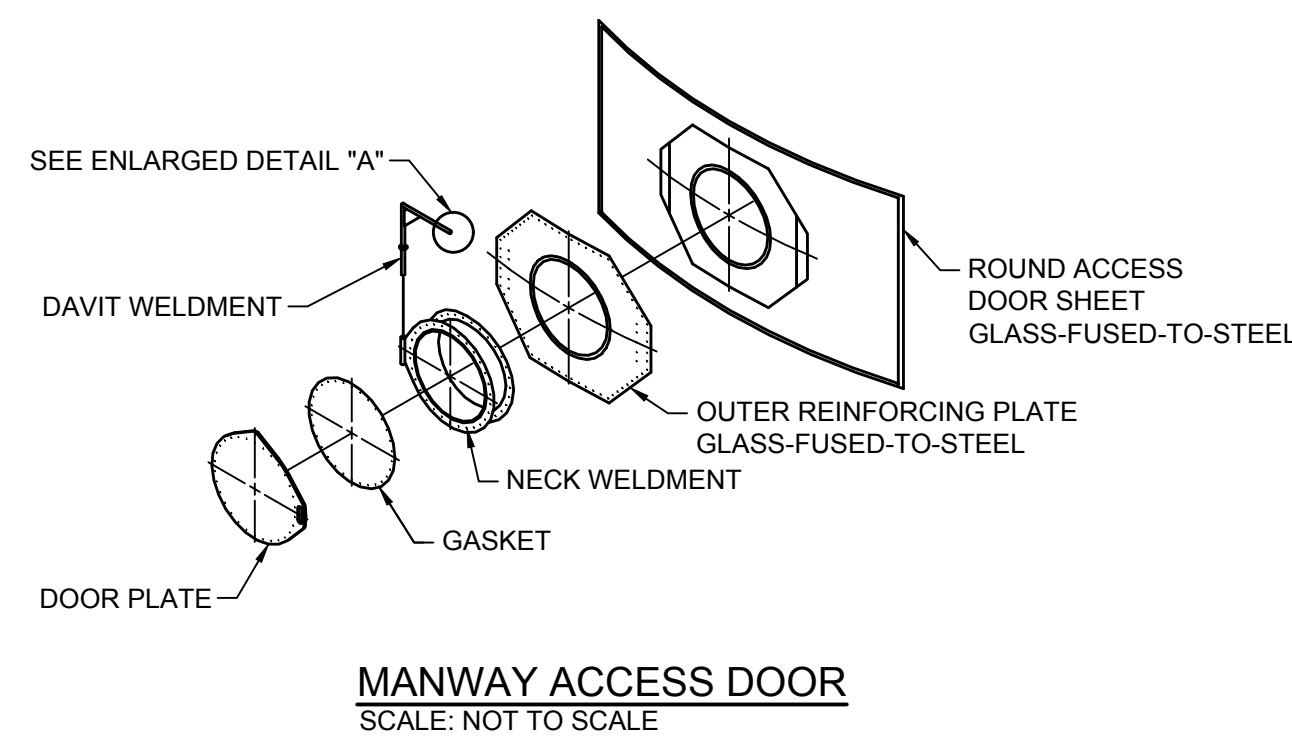
Tank Refill Influent Rate (Tank Inflow)	200	GPM	Based on hydraulic model results; Measured during maximum day system demand
Fire Pump Rate (Tank Outflow)	1,500	GPM	Based on Required Fire Flow
Difference between Inflow and Outflow	1,300	GPM	
Calculated Fire Flow Duration	138	MIN	Usable Tank Volume/(Outflow - Inflow)

On-site Fire Flow Performance			
Description	Value	Unit	Notes
Lowest On-site Available Fire Flow	2,114	GPM	Single-hydrant flow, from hydraulic model results
Residual Pressure at Worst-Case Hydrant	20.0	PSI	At 2,114 GPM
Residual Pressure at Needed Fire Flow	40.6	PSI	At 1,500 GPM

1. THE DETAILS SHOWN ON THE DRAWINGS INDICATE GENERAL INTENT ONLY. ALL SUCH SUCH ELEMENTS SHALL BE DESIGNED TO COMPLY WITH NFPA 13, 20, AND 22 AND NF FIRE CODE.
2. CONTRACTOR SHALL CONFIRM ALL DIMENSIONS AND CONNECTION REQUIREMENTS WITH THE MANUFACTURERS PRIOR TO ORDERING AND INSTALLING EQUIPMENT.
3. REFER TO STRUCTURAL DRAWINGS FOR SUBGRADE PREPARATION. TANK FOUNDATION SHALL BE DESIGNED BY TANK MANUFACTURER.
4. REFER TO FP2 FOR HVAC DESIGN.
5. PIPE SUPPORTS AND HANGERS REMOVED FOR CLARITY. SUPPORTS NOT SHOWN MAY BE NECESSARY. SUPPORT PIPES AS REQUIRED.
6. ALL BURIED PIPE SHALL BE DUCTILE IRON MECHANICAL JOINT CLASS 52 AND ALL ABOVE GRADE OR EXPOSED PIPE SHALL BE DUCTILE IRON RESTRAIN CLASS 53 UNLESS OTHERWISE NOTED.
7. REINFORCE ALL JOINTS.



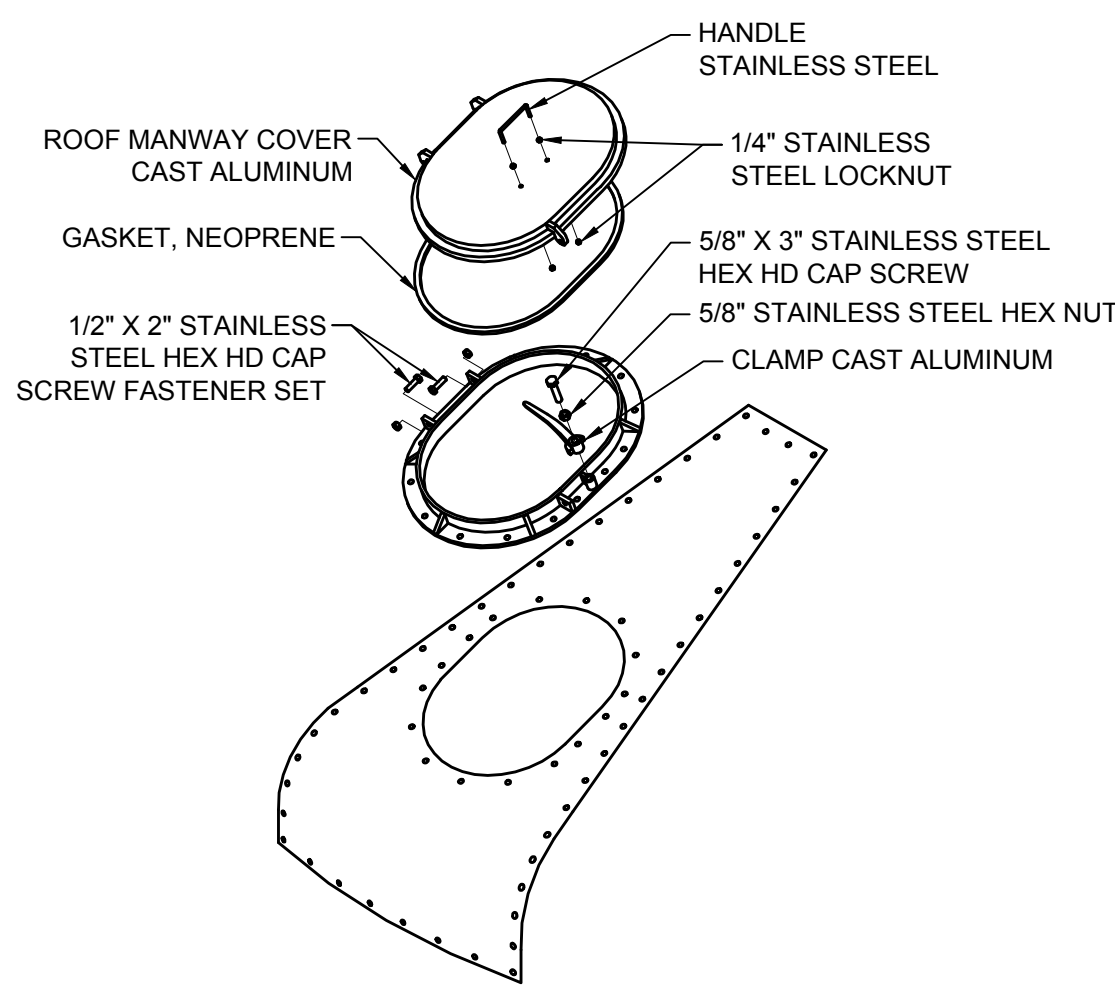




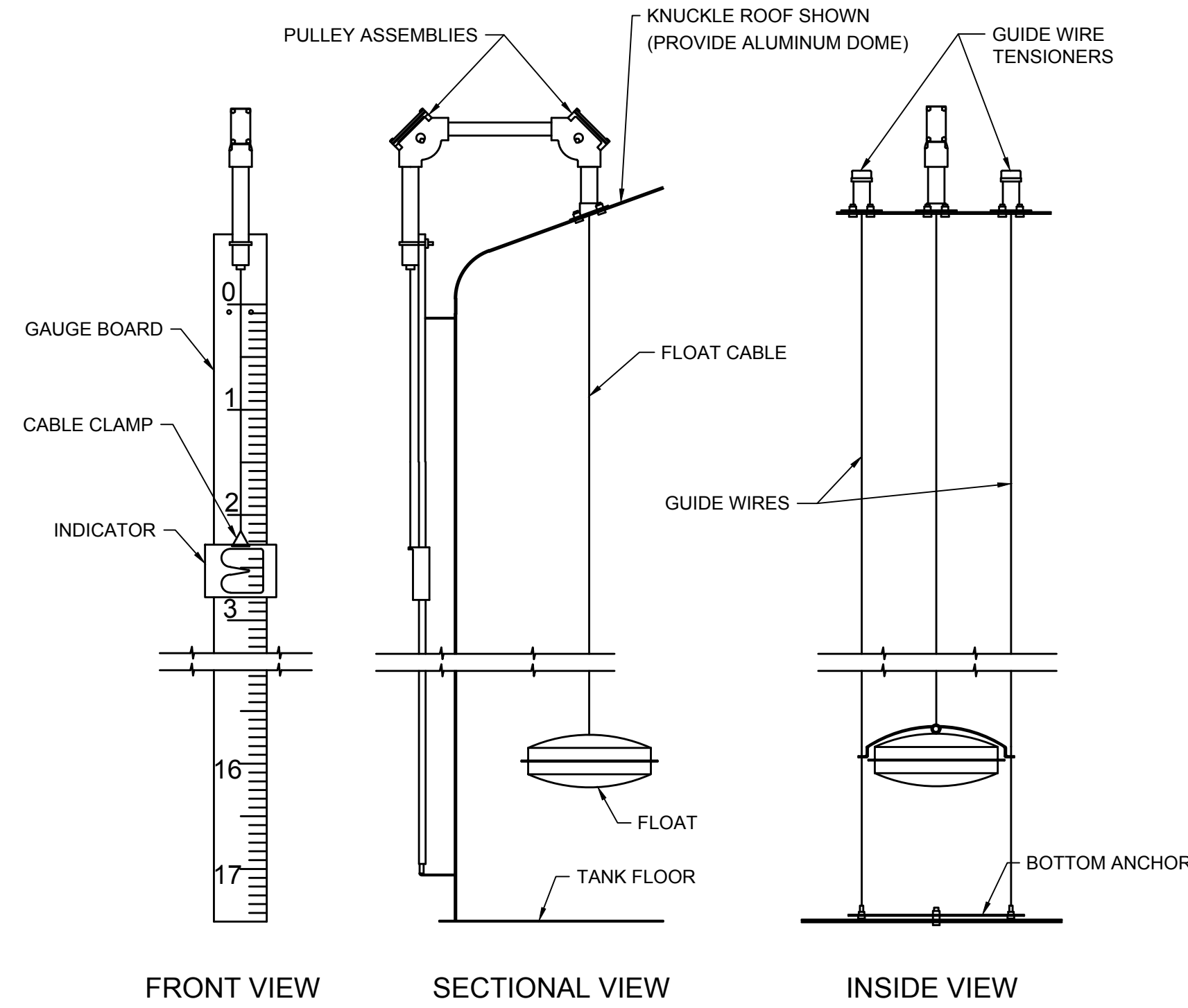
GRAVITY VENTILATOR GENERAL CONSTRUCTION
HOUSING COVER AND SUPPORT MEMBERS - ALUMINUM
INSECT SCREEN - 23 TO 25 MESH .0135\"/>

VENT CAPACITY CHART							
VENT THROAT DIAMETER	3.14 SQUARE FEET						
VELOCITY FPM	400	500	600	700	800	900	1000
EXHAUST PRESSURE DROP	.025	.035	.050	.070	.090	.120	.155
SUPPLY PRESSURE DROP	.060	.090	.130	.180	.240	.300	.380
CFM	1258	1570	1885	2200	2515	2830	3140

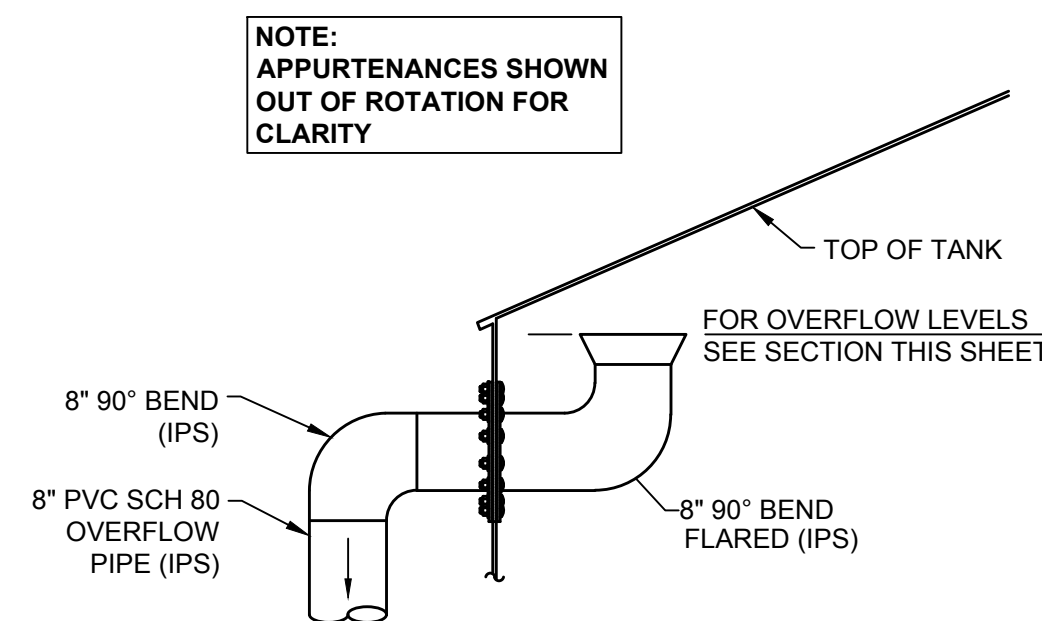
TANK VENT



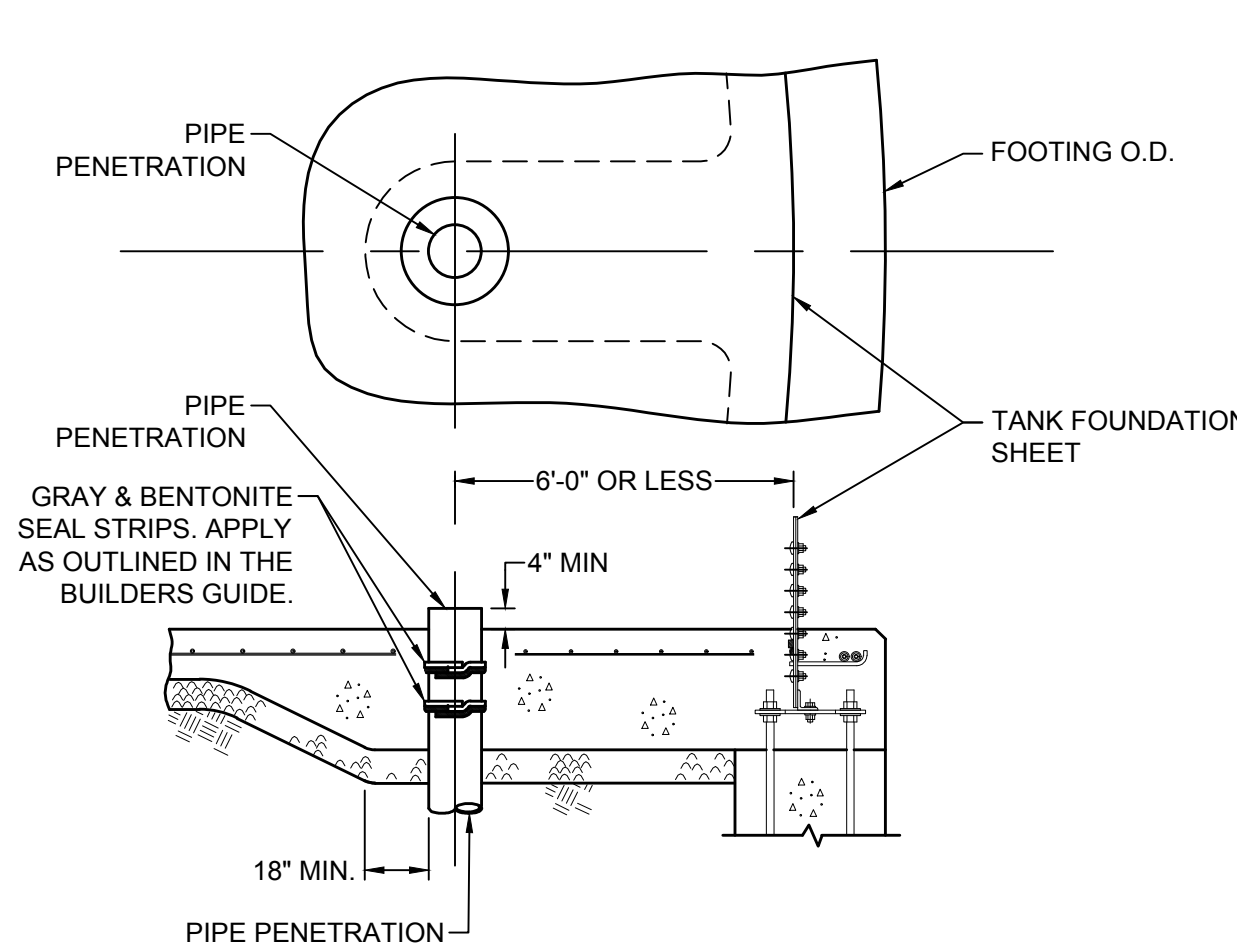
ROOF MANWAY



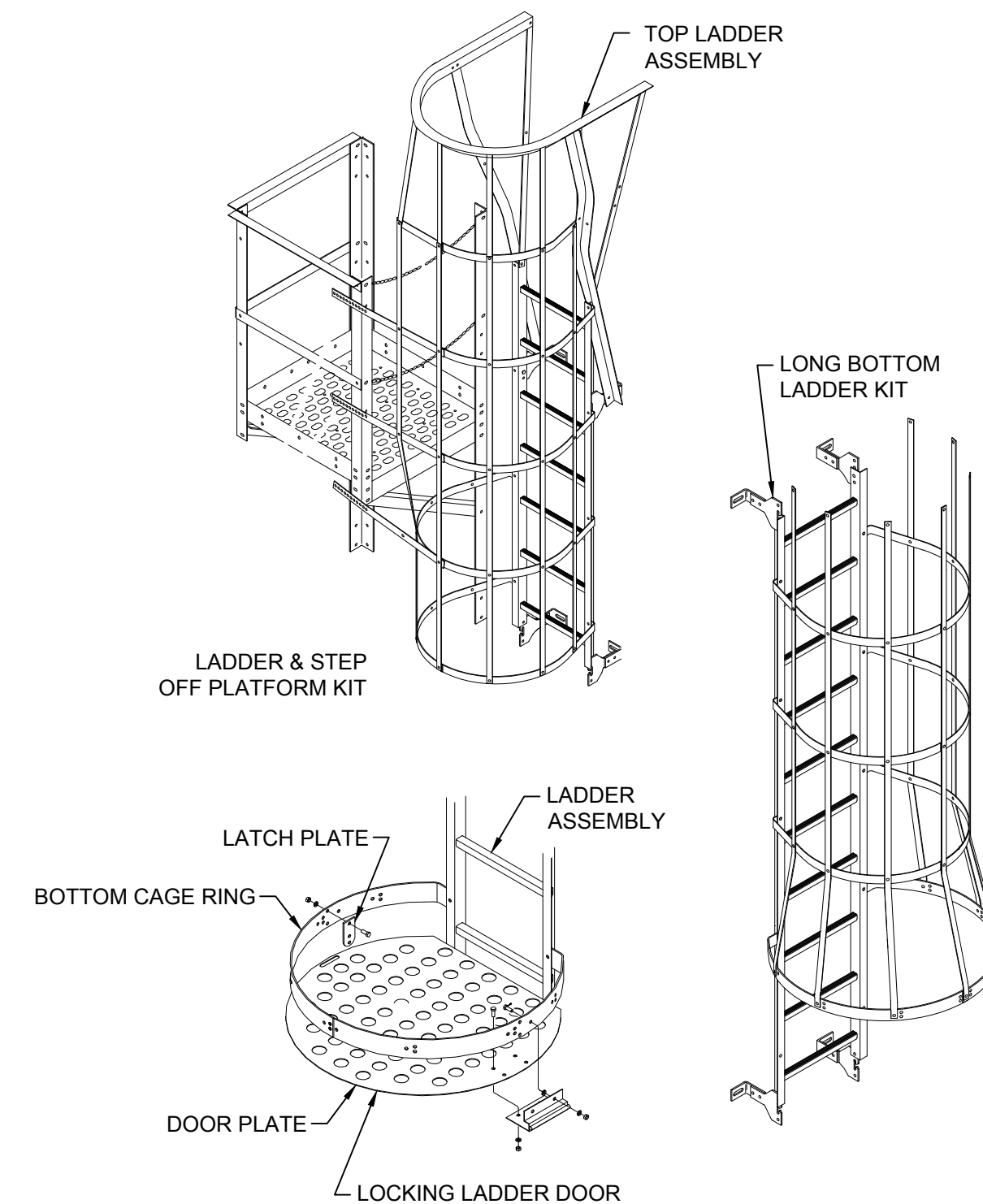
LIQUID LEVEL INDICATOR



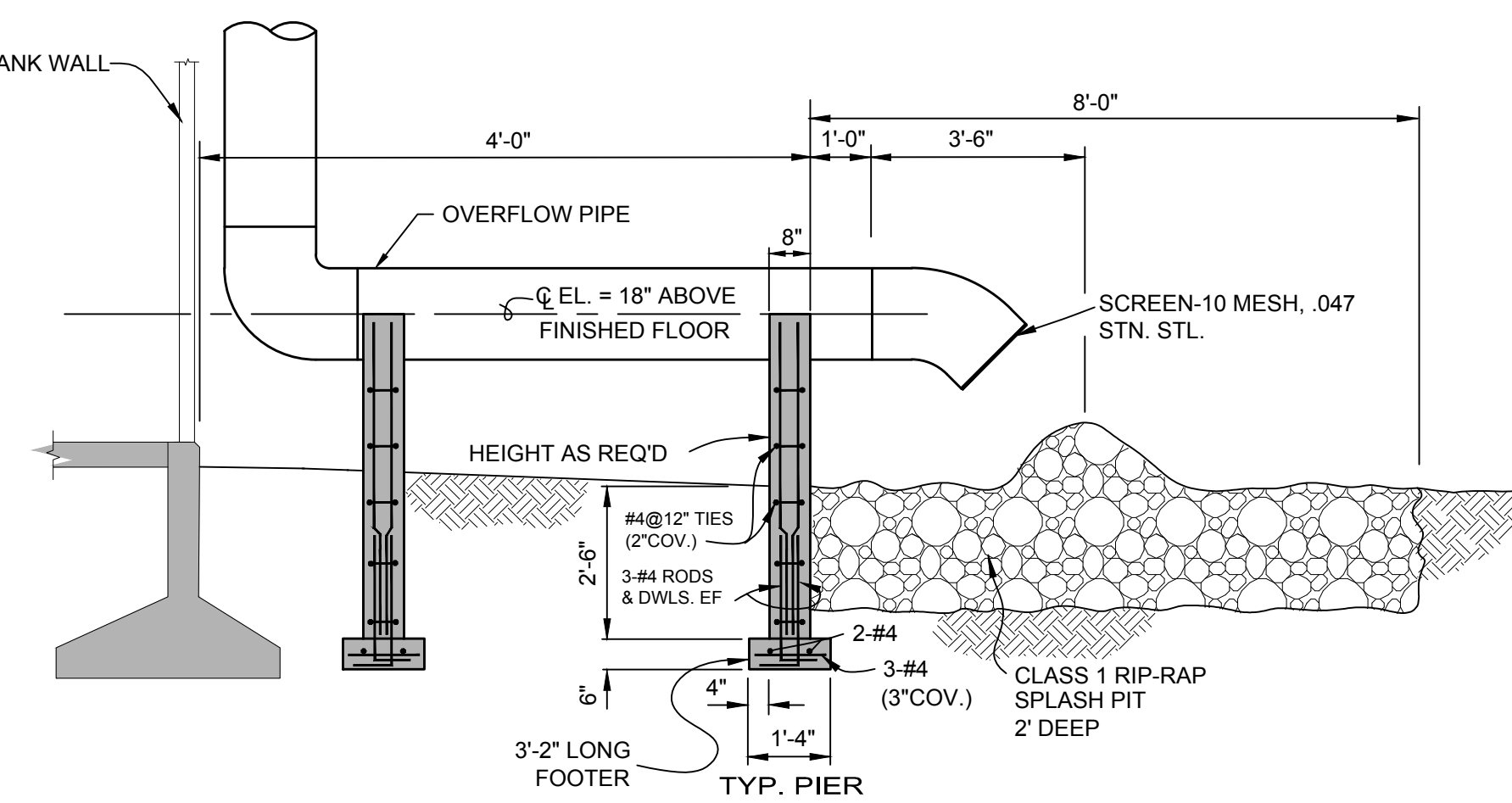
OVERFLOW AND FILL DETAIL



FLOOR PENETRATION



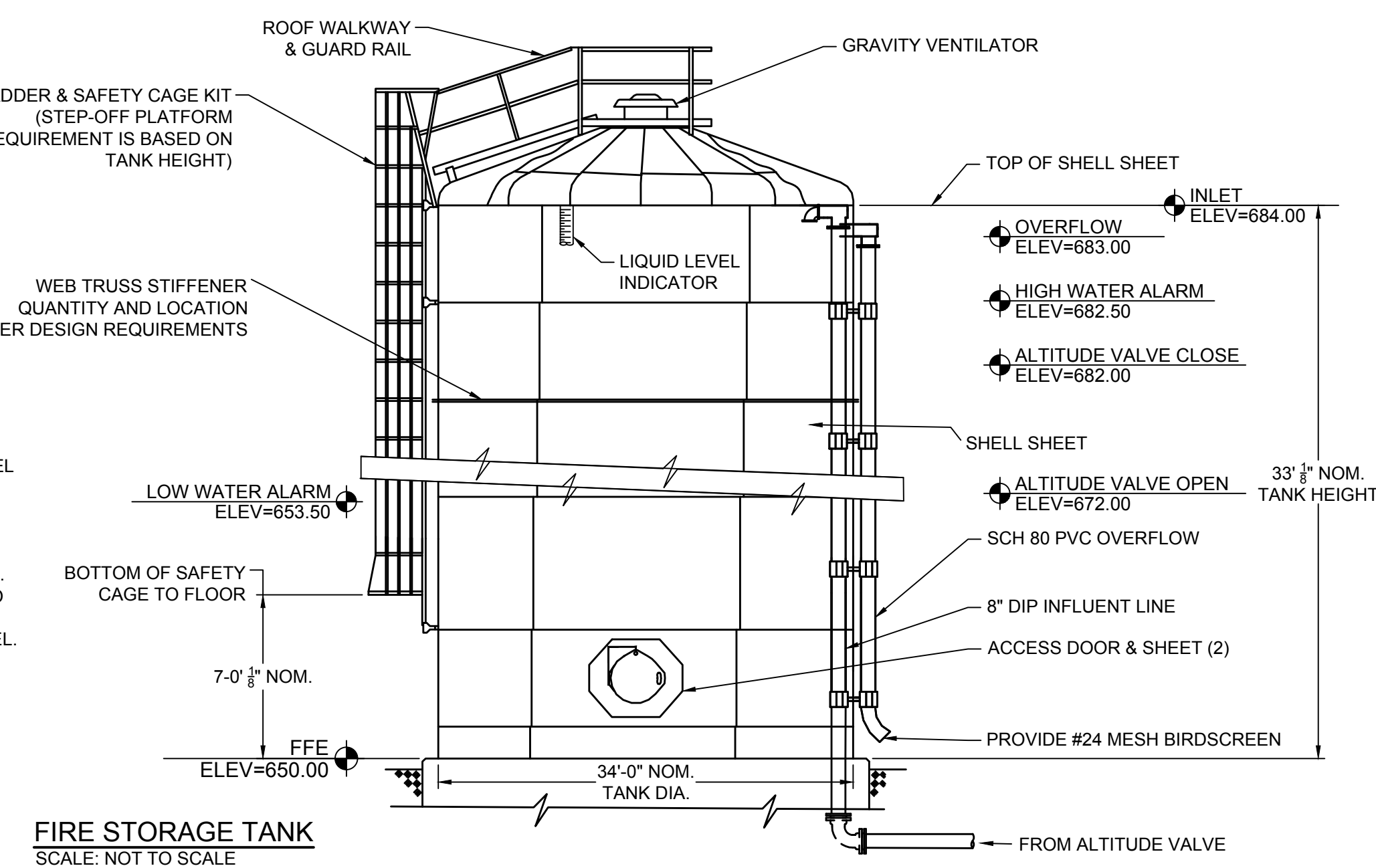
19' LADDER CAGE ASSEMBLY



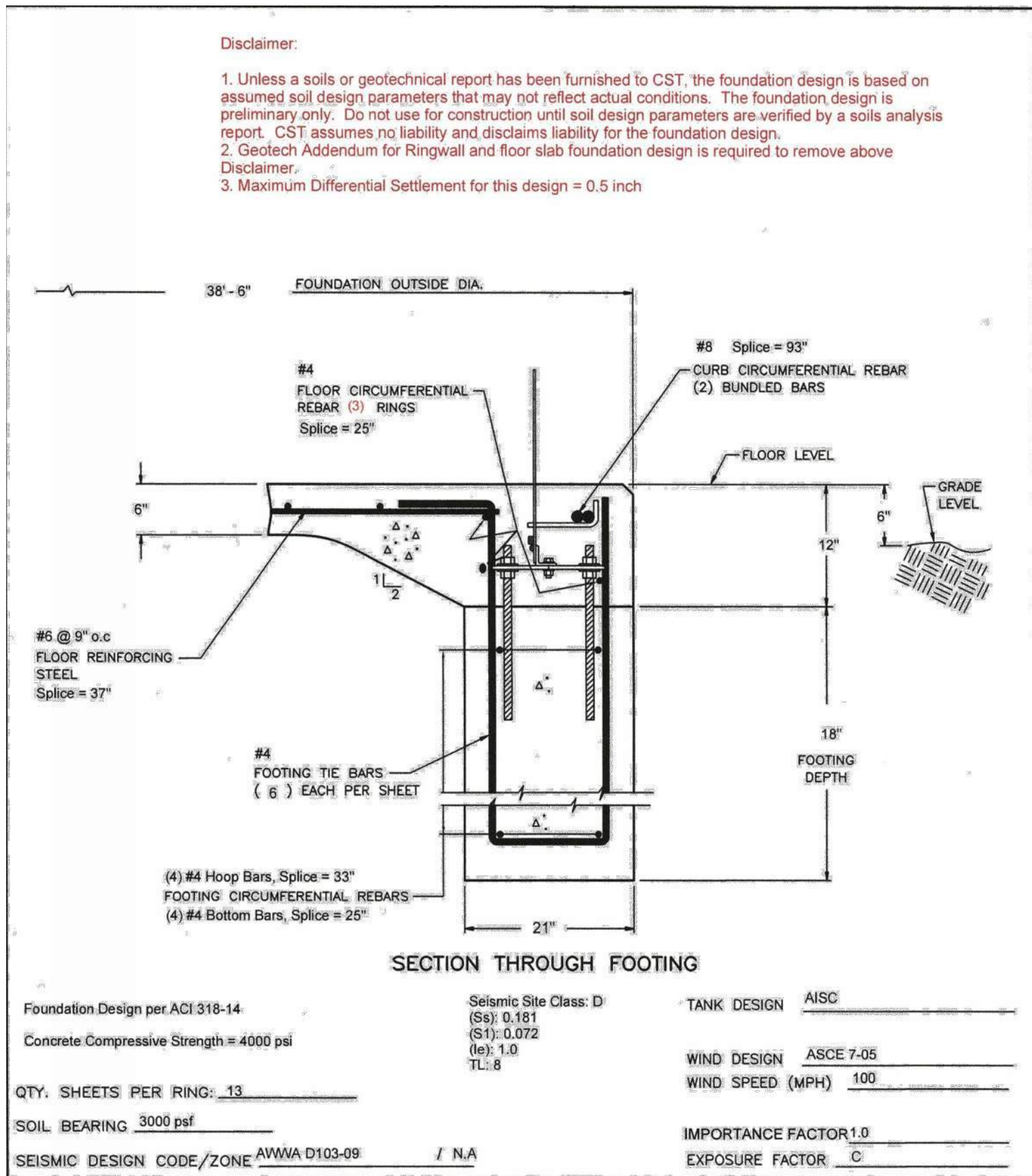
OVERFLOW SPLASH PIT

NOTES:

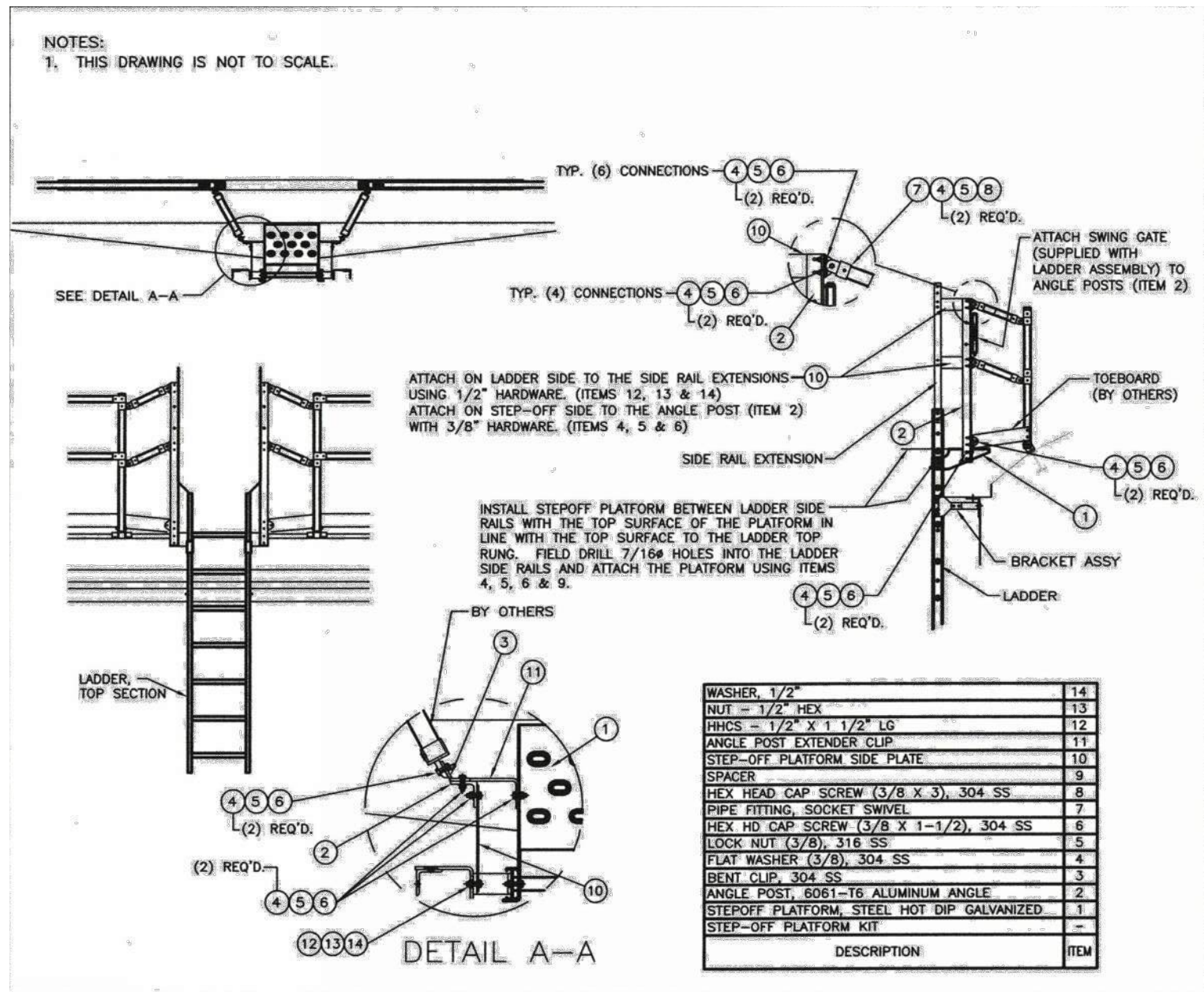
- HIGH WATER ALARM (HWA) AND LOW WATER ALARM (LWA) SHALL BE ANNUNCIATED AT THE FIRE PUMP CONTROL PANEL OR LOCATION DETERMINED BY THE OWNER.
- PROVIDE TEMPERATURE SENSOR TO MEASURE CRITICAL WATER TEMPERATURE AS REQUIRED BY NFPA 20. TEMPERATURE SHALL BE MONITORED AT THE FIRE PUMP CONTROL PANEL OR LOCATION DETERMINE BY THE OWNER.
- FLOAT SWITCHES (NON-MERCURY TYPE) SHALL BE USED TO MONITOR HWA AND LWA.
- PROVIDE PRESSURE TRANSDUCER TO MONITOR TANK LEVEL.
- PROVIDE TWO HILLSIDE NOZZLES FOR INSTALLATION OF FLOAT SWITCHES.
- ALL PIPE UNDER TANK SLAB AND WITHIN 5' OF TANK SHELL SHALL BE DUCTILE IRON CLASS 52.
- LIGHTNING PROTECTION SHALL BE INSTALLED ON THE FIRE TANK IN ACCORDANCE WITH SECTION 4.4 OF NFPA 780.



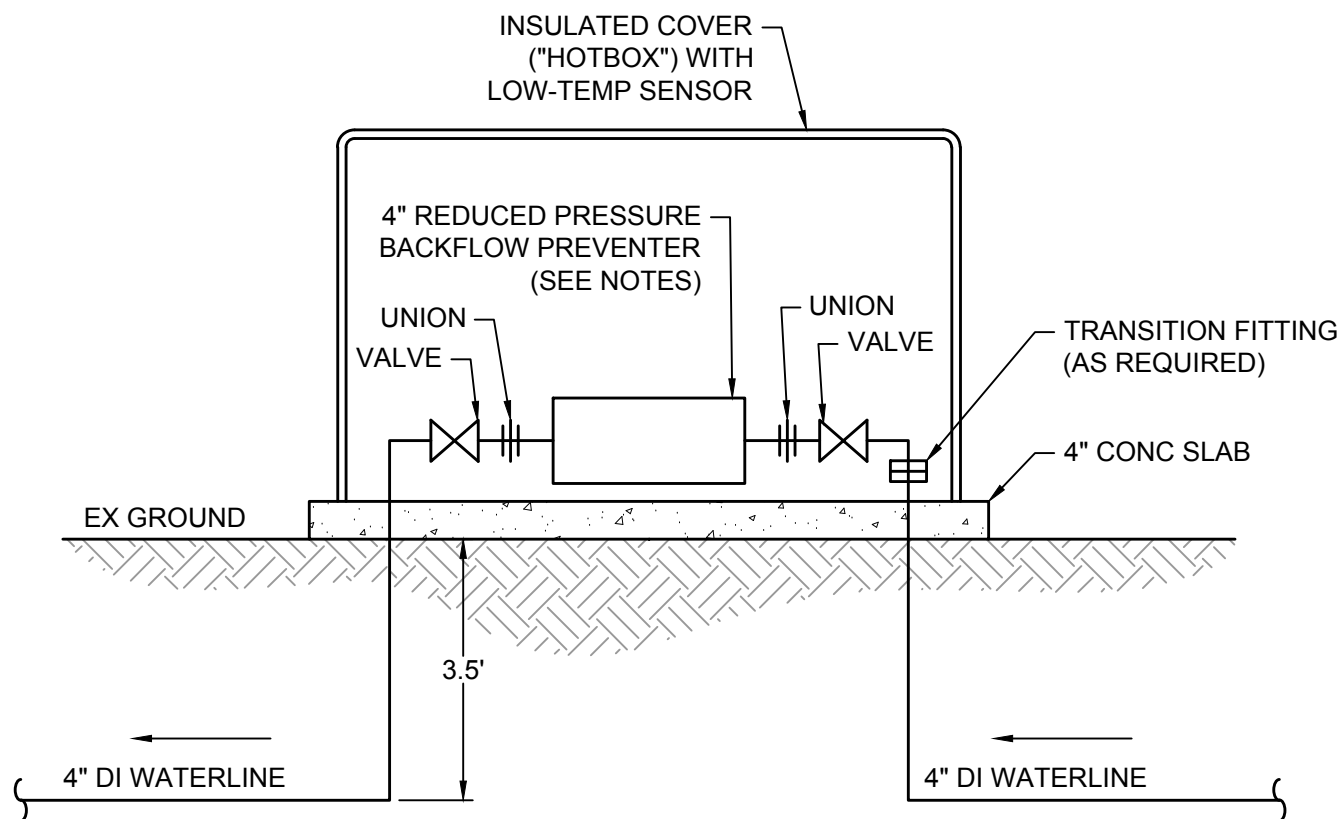
FIRE STORAGE TANK



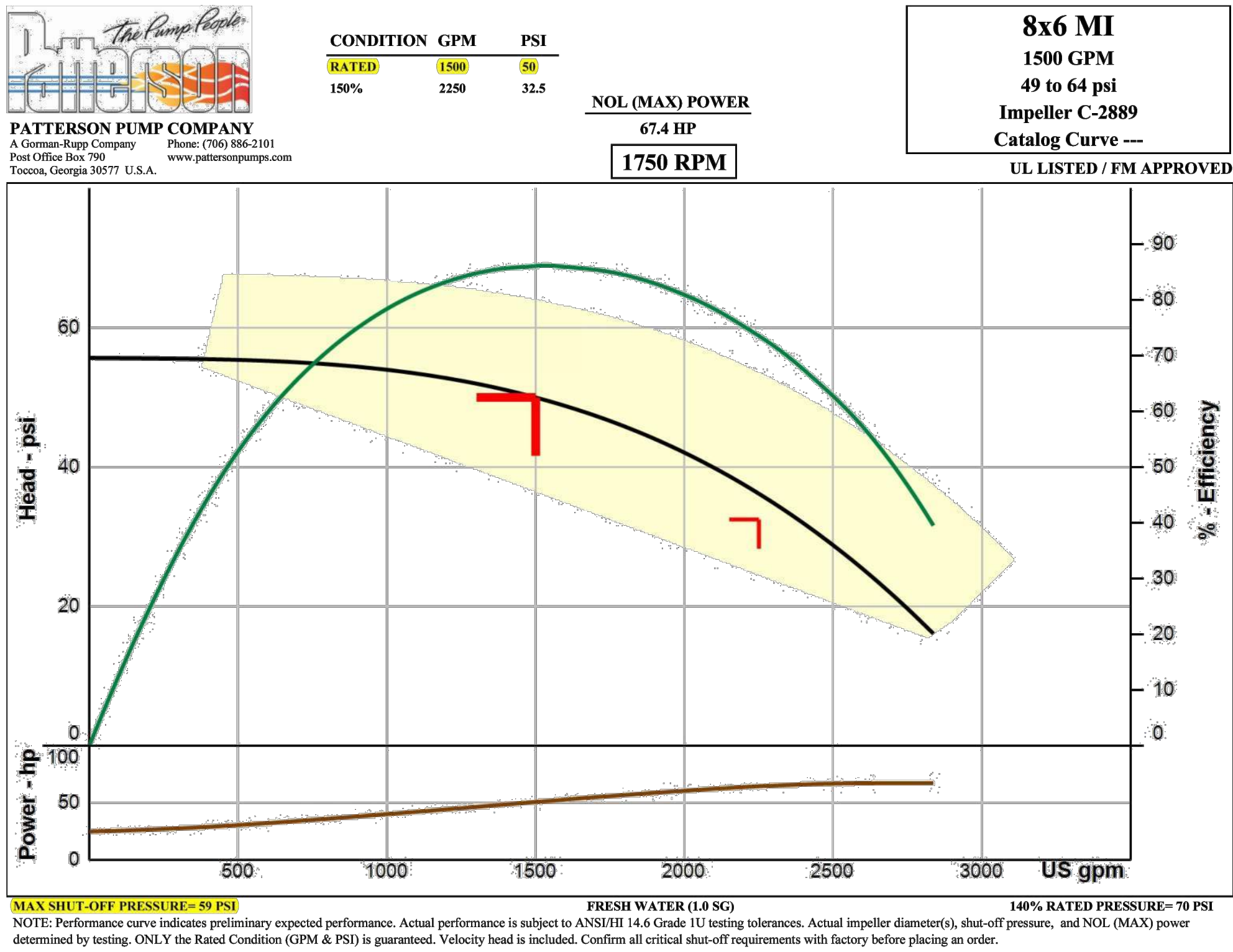
TANK FOUNDATION FOOTING DETAIL
SCALE: NOT TO SCALE



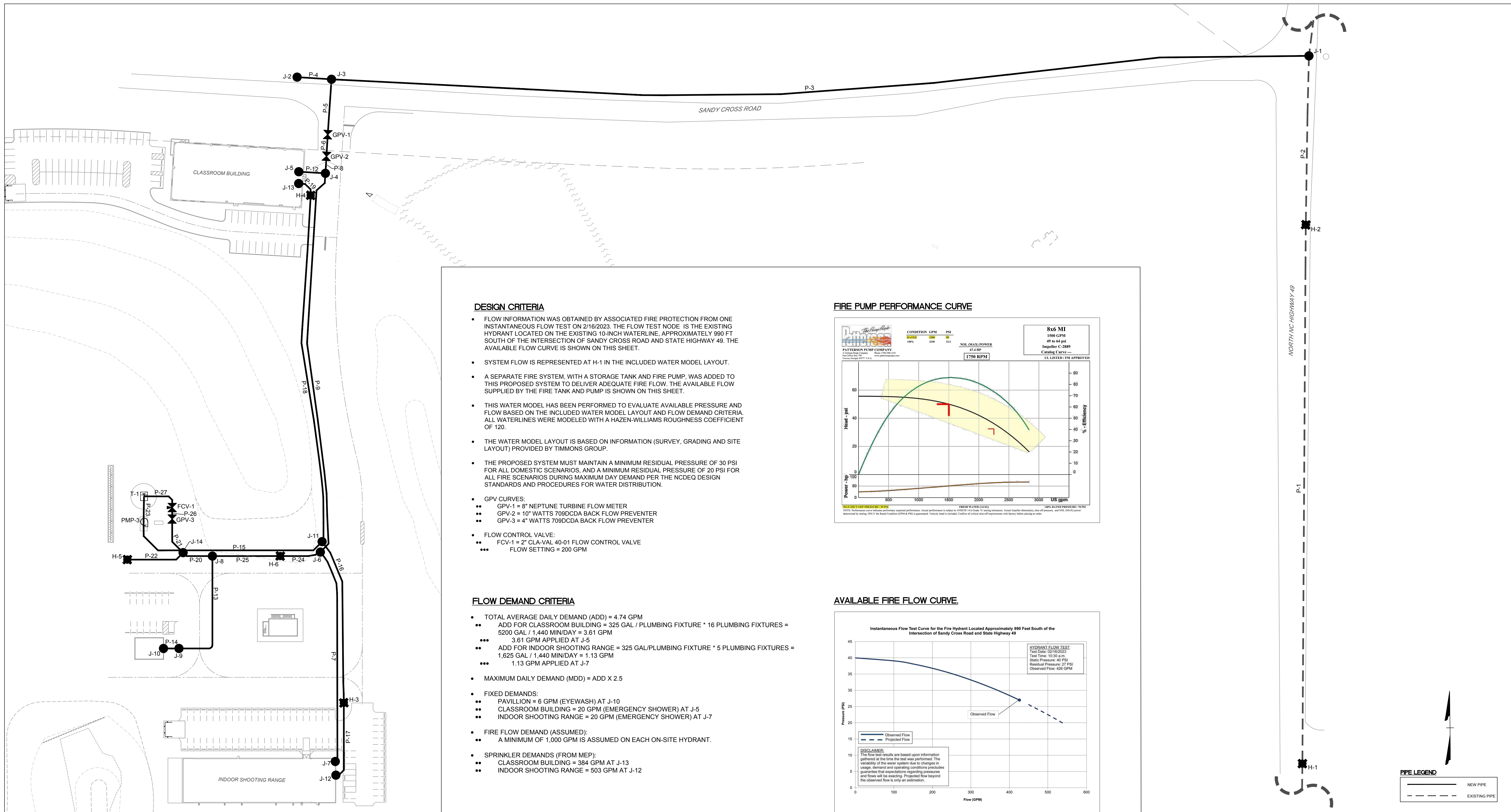
LADDER STEP-OFF DETAIL
SCALE: NOT TO SCALE



REDUCED PRESSURE ZONE BACKFLOW PREVENTER
SCALE: NOT TO SCALE



FIRE PUMP PERFORMANCE CURVE
SCALE: NOT TO SCALE



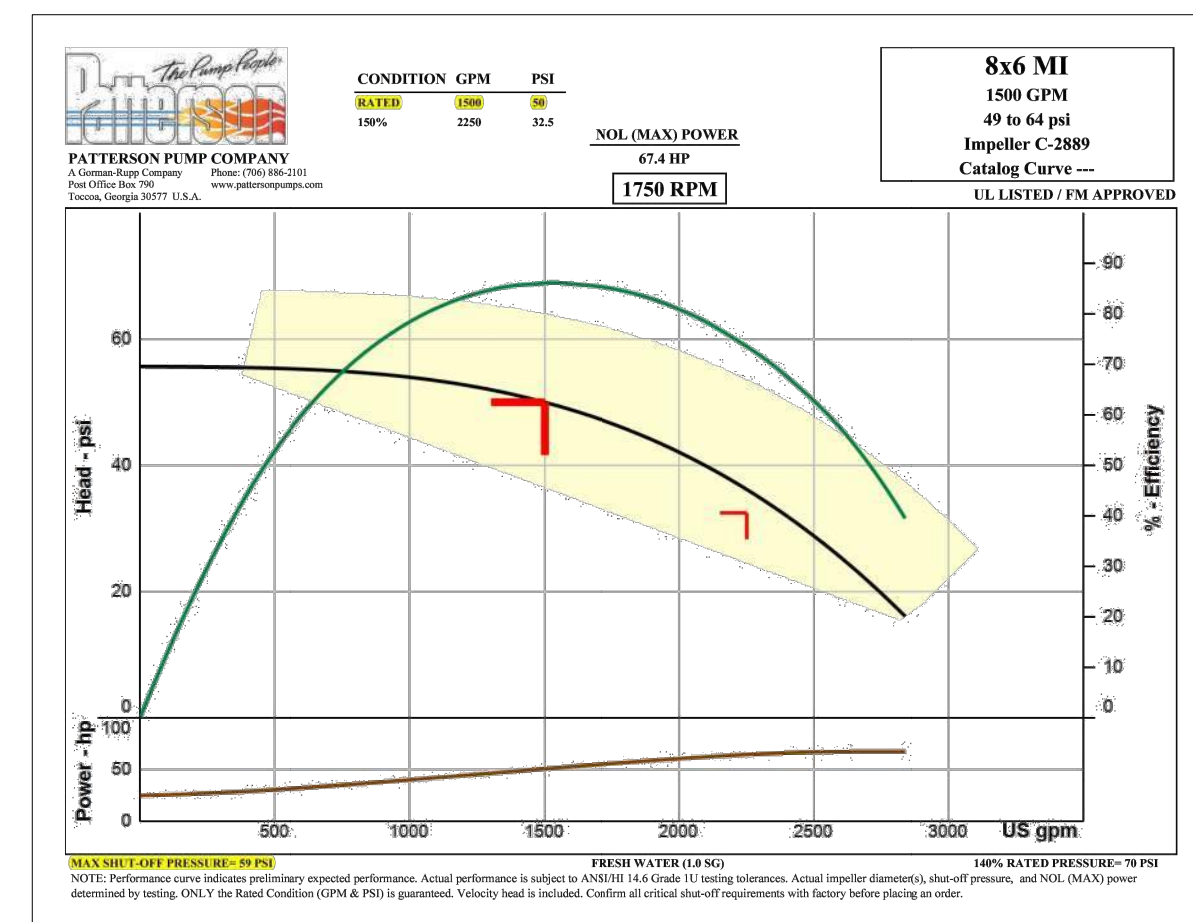
DESIGN CRITERIA

- FLOW INFORMATION WAS OBTAINED BY ASSOCIATED FIRE PROTECTION FROM ONE INSTANTANEOUS FLOW TEST ON 2/16/2023. THE FLOW TEST NODE IS THE EXISTING HYDRANT LOCATED ON THE EXISTING 10-INCH WATERLINE, APPROXIMATELY 990 FT SOUTH OF THE INTERSECTION OF SANDY CROSS ROAD AND STATE HIGHWAY 49. THE AVAILABLE FLOW CURVE IS SHOWN ON THIS SHEET.
- SYSTEM FLOW IS REPRESENTED AT H-1 IN THE INCLUDED WATER MODEL LAYOUT.
- A SEPARATE FIRE SYSTEM, WITH A STORAGE TANK AND FIRE PUMP, WAS ADDED TO THIS PROPOSED SYSTEM TO DELIVER ADEQUATE FIRE FLOW. THE AVAILABLE FLOW SUPPLIED BY THE FIRE TANK AND PUMP IS SHOWN ON THIS SHEET.
- THIS WATER MODEL HAS BEEN PERFORMED TO EVALUATE AVAILABLE PRESSURE AND FLOW BASED ON THE INCLUDED WATER MODEL LAYOUT AND FLOW DEMAND CRITERIA. ALL WATERLINES WERE MODELED WITH A HAZEN-WILLIAMS ROUGHNESS COEFFICIENT OF 120.
- THE WATER MODEL LAYOUT IS BASED ON INFORMATION (SURVEY, GRADING AND SITE LAYOUT) PROVIDED BY TIMMONS GROUP.
- THE PROPOSED SYSTEM MUST MAINTAIN A MINIMUM RESIDUAL PRESSURE OF 30 PSI FOR ALL DOMESTIC SCENARIOS, AND A MINIMUM RESIDUAL PRESSURE OF 20 PSI FOR ALL FIRE SCENARIOS DURING MAXIMUM DAY DEMAND PER THE NCEQ DESIGN STANDARDS AND PROCEDURES FOR WATER DISTRIBUTION.
- GPV CURVES:
 - GPV-1 = 8" NEPTUNE TURBINE FLOW METER
 - GPV-2 = 10" WATTS 709DCDA BACK FLOW PREVENTER
 - GPV-3 = 4" WATTS 709DCDA BACK FLOW PREVENTER
- FLOW CONTROL VALVE:
 - FCV-1 = 2" CLA-VAL 40-01 FLOW CONTROL VALVE
 - FLOW SETTING = 200 GPM

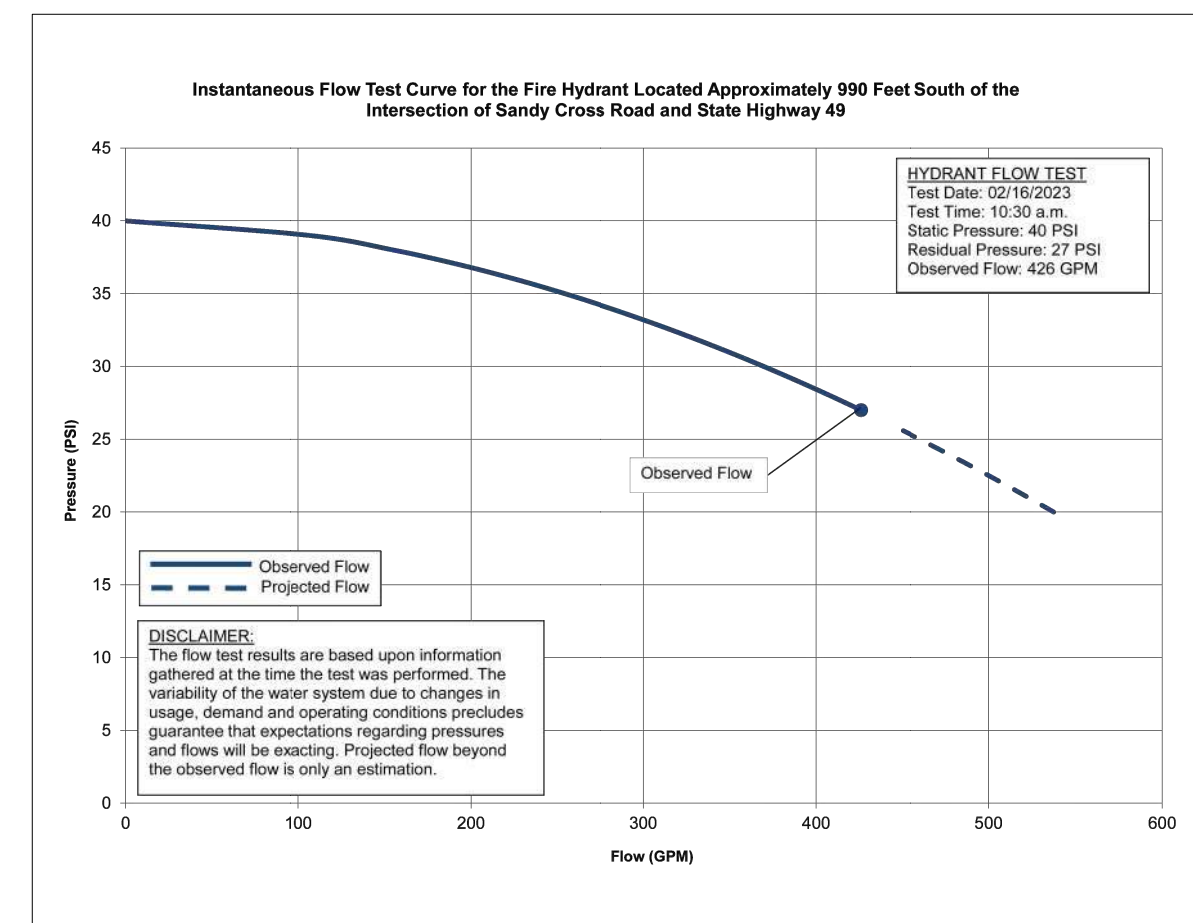
FLOW DEMAND CRITERIA

- TOTAL AVERAGE DAILY DEMAND (ADD) = 4.74 GPM
 - ADD FOR CLASSROOM BUILDING = 325 GAL / PLUMBING FIXTURE * 16 PLUMBING FIXTURES = 5200 GAL / 1,440 MIN/DAY = 3.61 GPM
 - 3.61 GPM APPLIED AT J-5
 - ADD FOR INDOOR SHOOTING RANGE = 325 GAL/PLUMBING FIXTURE * 5 PLUMBING FIXTURES = 1,625 GAL / 1,440 MIN/DAY = 1.13 GPM
 - 1.13 GPM APPLIED AT J-7
- MAXIMUM DAILY DEMAND (MDD) = ADD X 2.5
- FIXED DEMANDS:
 - PAVILLION = 6 GPM (EYEWASH) AT J-10
 - CLASSROOM BUILDING = 20 GPM (EMERGENCY SHOWER) AT J-5
 - INDOOR SHOOTING RANGE = 20 GPM (EMERGENCY SHOWER) AT J-7
- FIRE FLOW DEMAND (ASSUMED):
 - A MINIMUM OF 1,000 GPM IS ASSUMED ON EACH ON-SITE HYDRANT.
- SPRINKLER DEMANDS (FROM MEP):
 - CLASSROOM BUILDING = 384 GPM AT J-13
 - INDOOR SHOOTING RANGE = 503 GPM AT J-12

FIRE PUMP PERFORMANCE CURVE



AVAILABLE FIRE FLOW CURVE



RESIDUAL PRESSURE RESULTS (PSI)

FLOW SCENARIO	JUNCTIONS													
	J-1	J-2	J-3	J-4	J-5	J-6	J-7	J-8	J-9	J-10	J-11*	J-12*	J-13*	J-14
ELEVATION (FT)	655.1	619.0	619.0	631.3	633.5	652.3	655.3	648.8	647.5	647.3	652.4	655.3	633.5	648.0
STATIC	35.0	50.3	50.3	35.7	34.5	26.5	23.5	28.0	28.4	28.5	56.4	55.2	64.6	28.3
AVERAGE DAILY DEMAND (ADD)	34.8	50.1	50.1	35.5	34.3	26.3	23.1	27.8	28.2	28.3	56.4	55.2	64.6	28.1
MAXIMUM DAILY DEMAND (MDD)	34.5	49.6	49.6	35.2	33.9	26.0	22.5	27.5	27.9	28.1	56.4	55.2	64.6	27.8
SPRINKLER INDOOR SHOOTING BLDG (J-12)	34.5	49.8	49.8	35.2	33.9	26.0	22.5	27.5	27.9	28.1	55.5	53.4	63.7	27.8
SPRINKLER CLASSROOM BLDG (J-13)	34.5	49.8	49.8	35.2	33.9	26.0	22.5	27.5	27.9	28.1	55.9	54.6	63.2	27.8

*RESULTS BASED ON FIRE PUMP PERFORMANCE CURVE SHOWN ON SHEET

FLOW SCENARIO	HYDRANTS					
	H-1	H-2	H-3*	H-4*	H-5	H-6
ELEVATION (FT)	655.0	653.9	653.4	633.0	646.7	650.8
STATIC	35.3	35.6	56.0	64.8	28.9	27.1
AVERAGE DAILY DEMAND (ADD)	35.1	35.4	56.0	64.8	28.7	26.9
MAXIMUM DAILY DEMAND (MDD)	34.8	35.1	56.0	64.8	28.4	26.7
SPRINKLER INDOOR SHOOTING BLDG (J-12)	34.8	35.1	54.4	63.9	28.4	26.7
SPRINKLER CLASSROOM BLDG (J-13)	34.8	35.1	55.4	63.5	28.4	26.7

*RESULTS BASED ON FIRE PUMP PERFORMANCE CURVE SHOWN ON SHEET

PIPE REPORT

LABEL	LENGTH (FT)	DIA (IN.)
P-1	755	10
P-2	237	10
P-3	1,373	10
P-4	48	10
P-5	78	10
P-6	48	10
P-7	311	2
P-8	11	10
P-9	536	10
P-12	30	2
P-13	185	2
P-14	10	2
P-15	276	8
P-16	231	8
P-17	107	8
P-18	494	8
P-19	31	8
P-20	43	10
P-21	58	4
P-22	82	8
P-23	37	8
P-24	57	10
P-25	85	10
P-26	12	4
P-27	62	4

AVAILABLE FIRE FLOW

FLOW SCENARIO	HYDRANTS	
	H-3***	H-4***
ELEVATION (FT)	653.4	633.0
AVAILABLE FIRE FLOW*	2,120	2,114
MINIMUM RESIDUAL PRESSURE DURING REQUIRED FIRE FLOW**	26.0	26.0

*AVAILABLE FIRE FLOW IS MEASURED, NON-SIMULTANEOUSLY, DURING THE MAX DAILY DEMAND SCENARIO AT A SYSTEM RESIDUAL PRESSURE LIMIT OF 20 PSI

** 1,000 GPM IS REQUIRED AT EACH ONSITE HYDRANT

*** RESULTS BASED ON FIRE PUMP PERFORMANCE CURVE SHOWN ON SHEET

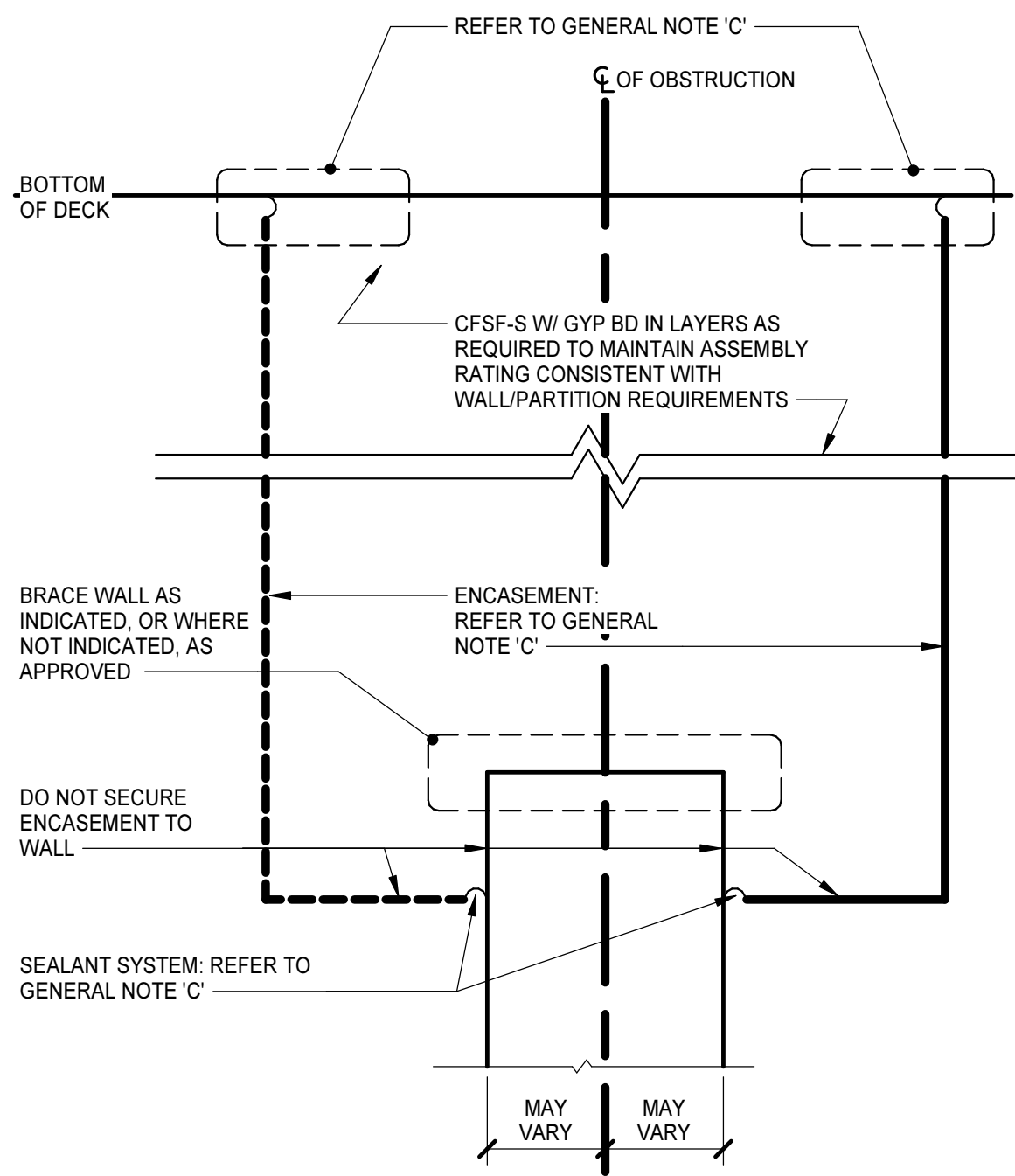
CONCLUSION

- BASED ON THE INFORMATION PROVIDED, THE PROPOSED SYSTEM DOES NOT ADEQUATELY MEET THE MINIMUM RESIDUAL PRESSURE REQUIREMENTS WHILE PROVIDING THE REQUIRED FLOWS FOR THE DOMESTIC AND FIRE SCENARIOS. THE SYSTEM MEETS FIRE FLOW REQUIREMENTS FOR ALL FIRE FLOW SCENARIOS; HOWEVER, THE SYSTEM DOES NOT MEET THE MINIMUM RESIDUAL PRESSURE REQUIREMENTS FOR THE DOMESTIC SCENARIOS. A BOOSTER PUMP WILL BE INSTALLED IN THE INDOOR SHOOTING RANGE BUILDING TO INCREASE THE PRESSURES DURING THE DOMESTIC SCENARIOS. THE OTHER JUNCTIONS THAT ARE UNDER 30 PSI DURING DOMESTIC SCENARIOS DO NOT CONTAIN UNIT DEMANDS, AND THUS DON'T NEED TO REACH 30 PSI FOR A PRIVATE WATERLINE SYSTEM.
- THE RESULTS PRESENTED ARE BASED ON INFORMATION GATHERED AT THE TIME OF THIS ANALYSIS. THE VARIABILITY OF THE WATER SYSTEM DUE TO CHANGES IN USAGE, DEMAND, OPERATING CONDITIONS, AND LAYOUT PRECLUDES GUARANTEES OF EXACT PRESSURES AND FLOWS.
- MODEL RESULTS INDICATE THAT RESIDUAL PRESSURES FOR SOME DOMESTIC SCENARIOS FALL BELOW 30 PSI. THEREFORE, A DOMESTIC BOOSTER PUMP IS NECESSARY FOR THE INDOOR SHOOTING RANGE, IN ORDER FOR THE PROPOSED SYSTEM TO MEET ALAMANCE COUNTY AND NCEQ DESIGN STANDARDS.

TERMINATION GENERAL NOTES

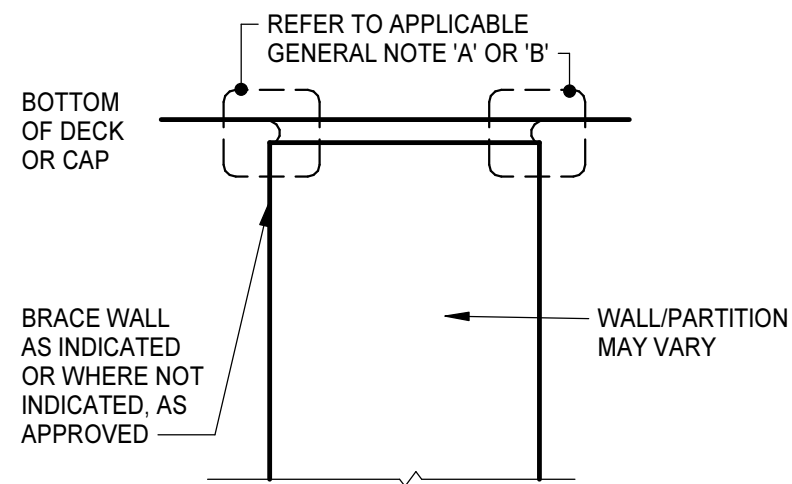
- A. AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS. BRACE WALL AS INDICATED OR REQUIRED.
- B. AT ALL OTHER WALLS INDICATED TO EXTEND TO UNDERSIDE OF FLOOR/ROOF DECK/CAP: SEAL ALL NON-OBSTRUCTED HEAD-OF-WALL CONDITIONS IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS BASED ON CONDITION ENCOUNTERED (E.G. CMU-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES), OR CFSF-TO-DECK (PARALLEL OR PERPENDICULAR TO FLUTES). BRACE WALL AS INDICATED OR REQUIRED.
- C. AT ALL WALLS PREVENTED FROM TERMINATING AT THE UNDERSIDE OF FLOOR/ROOF DECK BY OBSTRUCTIONS, COMPLY WITH THE FOLLOWING:
- AT FIRE-, SMOKE-, AND ACOUSTICALLY RATED WALLS: ENCASE OBSTRUCTION(S) TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.
 - AT SECURITY WALLS: TERMINATE IN ACCORDANCE WITH SECURITY PARTITION REQUIREMENTS.
 - AT OTHER WALLS: ENCASE OBSTRUCTION(S) ON ONE SIDE.
 - SEAL ENCASMENT TO WALL AND SEAL ENCASMENT TO DECK IN ACCORDANCE WITH JOINT SYSTEM MANUFACTURER'S RECOMMENDATIONS AND TO MAINTAIN ASSEMBLY RATING CONSISTENT WITH WALL/PARTITION REQUIREMENTS.

TERMINATIONS




HEAD-OF-WALL TERMINATION @ OBSTRUCTION

OBSTRUCTION MAY VARY (BEAM, JOIST, GIRDER, CHANNEL, DUCTWORK, PIPING)

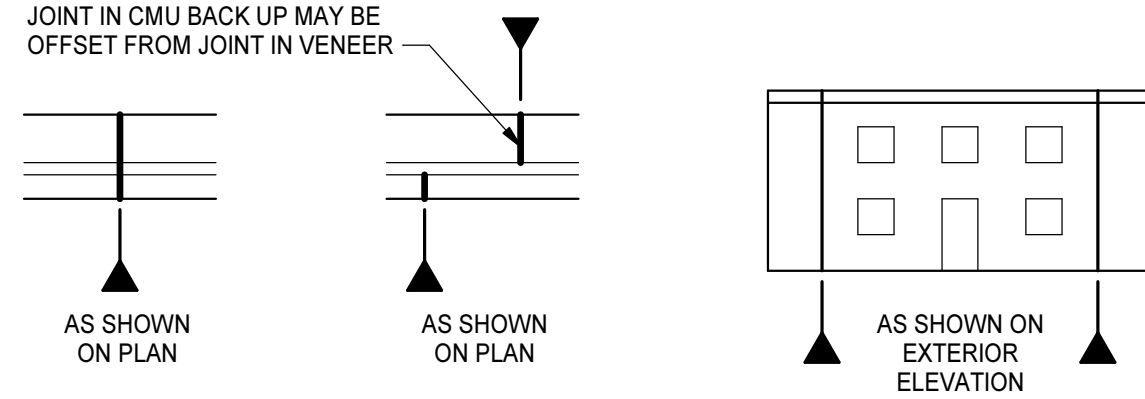


HEAD-OF-WALL TERMINATION @ NON-OBSTRUCTION

WALL JOINT GENERAL NOTES

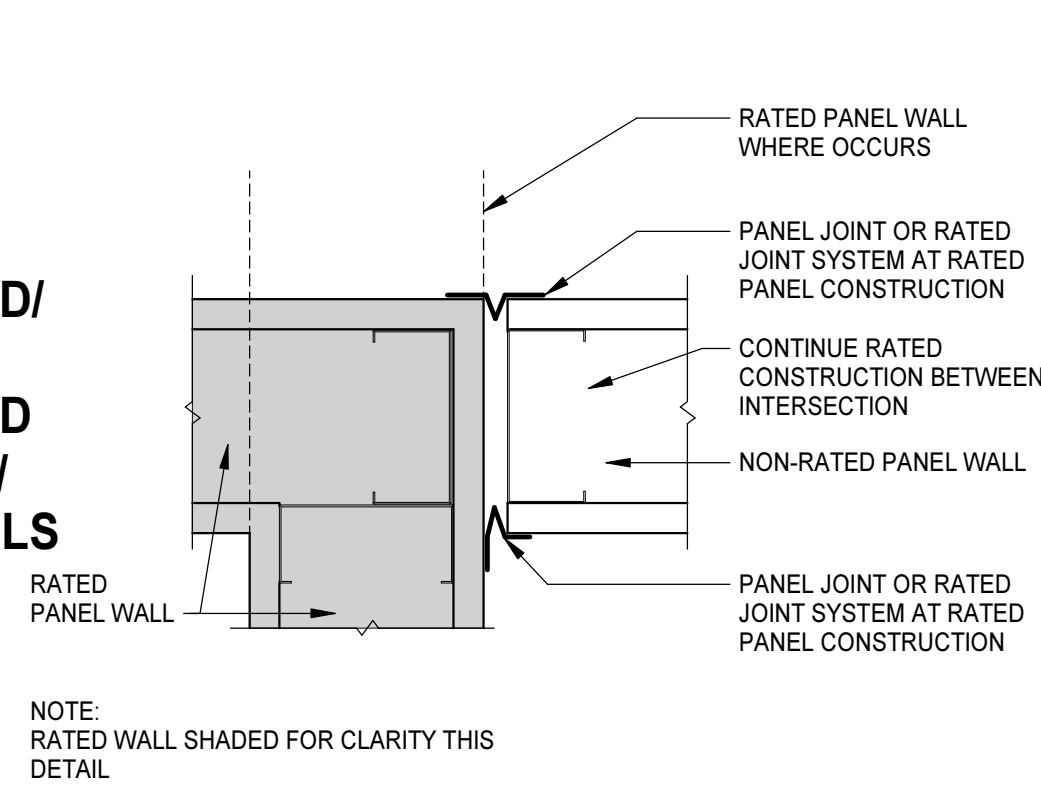
- A. LOCATE CONTROL JOINTS IN INTERIOR AND EXTERIOR WALLS AS INDICATED ON DRAWINGS.
- B. JOINTS ARE INDICATED THUS  ON PLANS AND ELEVATIONS.
- C. WALLS AND JOINT TYPES/DETAILS ARE DIAGRAMMATIC. ADJUST JOINT TYPES/DETAILS IN ACCORDANCE WITH ACTUAL FIELD CONDITIONS.
- D. PROVIDE TESTED JOINT ASSEMBLIES AT FIRE-, SMOKE-, AND ACOUSTICAL-RATED WALLS.
- E. WHEN USED HEREIN 'RATED' MEANS FIRE, SMOKE, AND/OR ACOUSTICAL.
- F. REFER TO SPECIFICATIONS FOR ADDITIONAL WALL JOINT REQUIREMENTS.

EXTERIOR WALL JOINT GRAPHICS

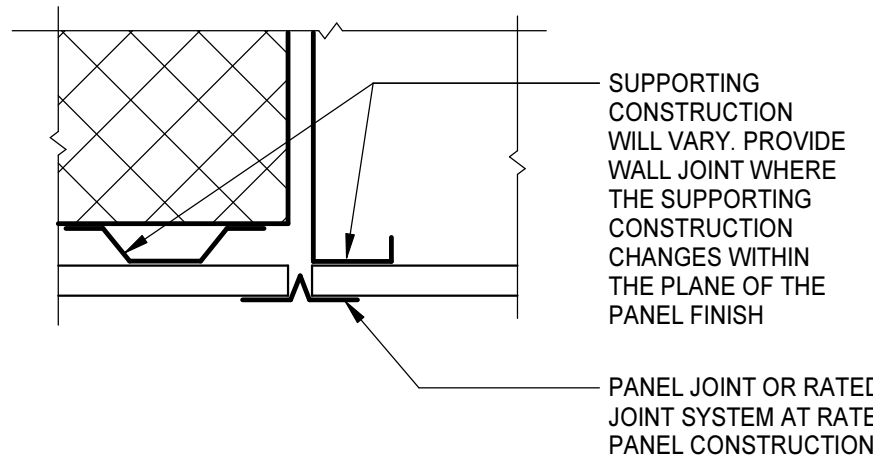


WALL JOINTS

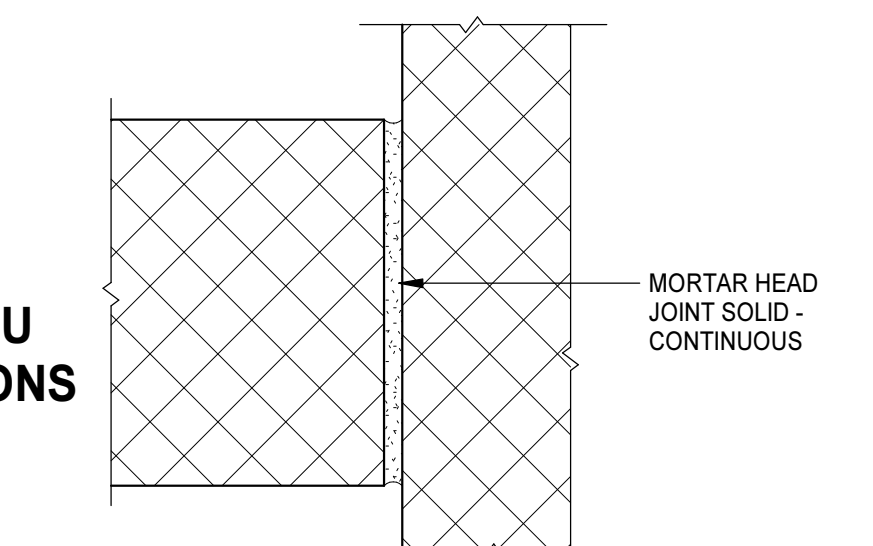
RATED/
NON-
RATED
CFSF/
PANELS



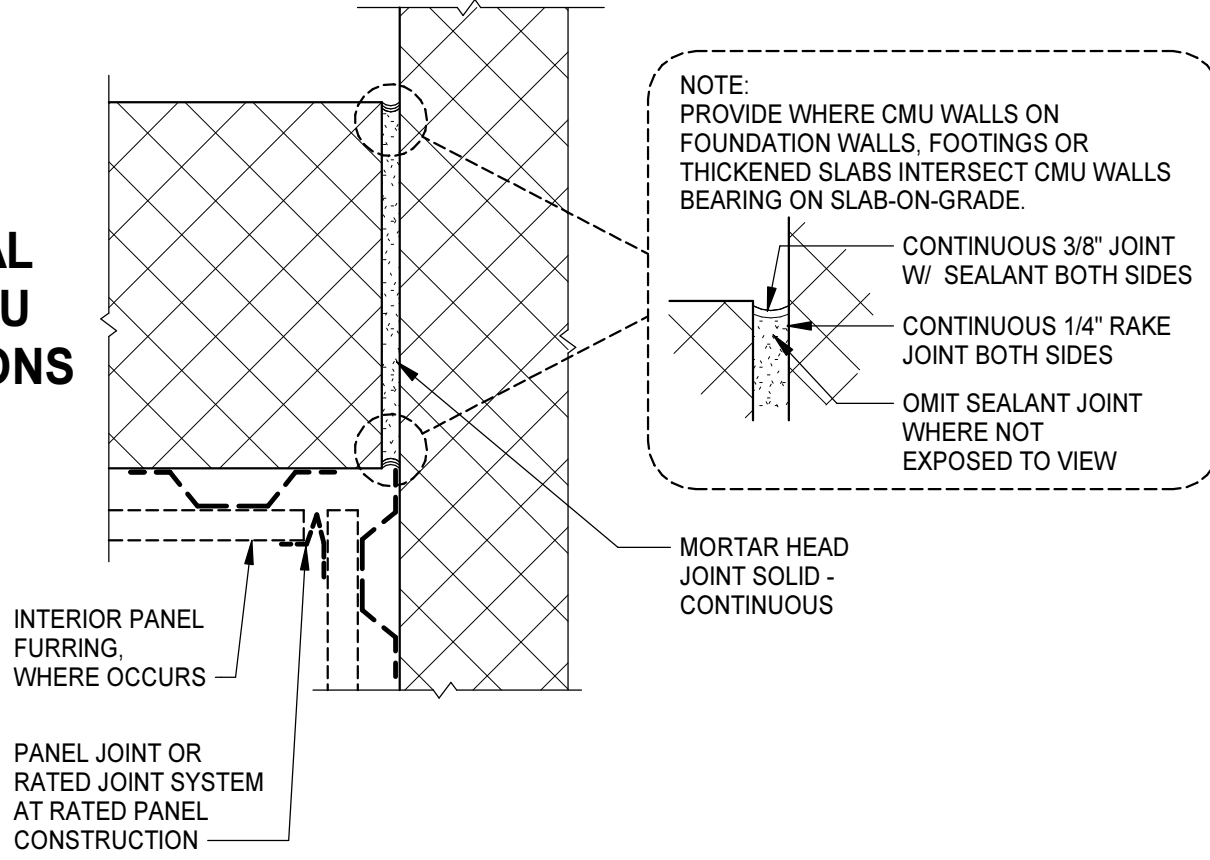
CMU/
CFSF



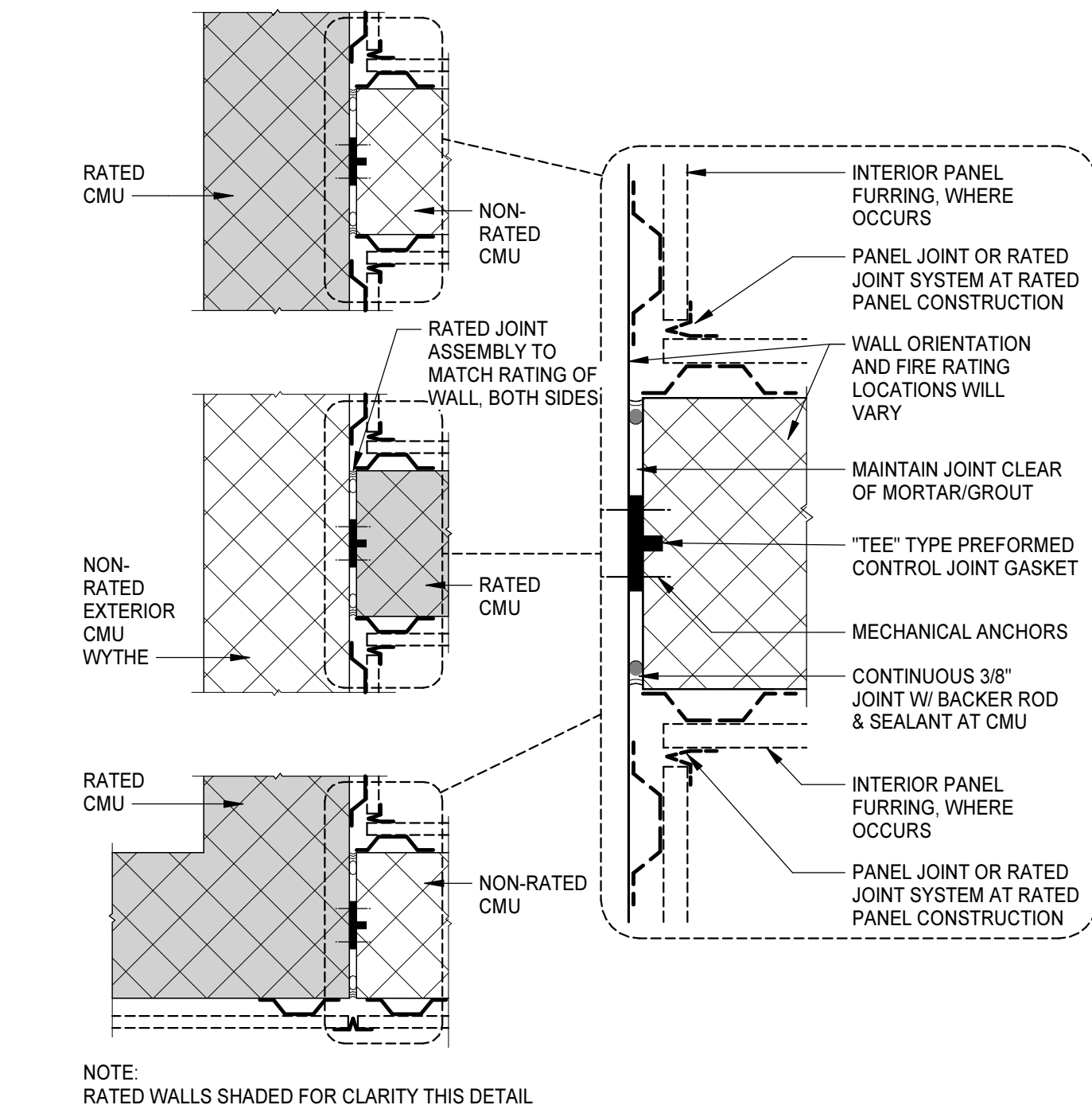
EQUAL
BEARING CMU
INTERSECTIONS



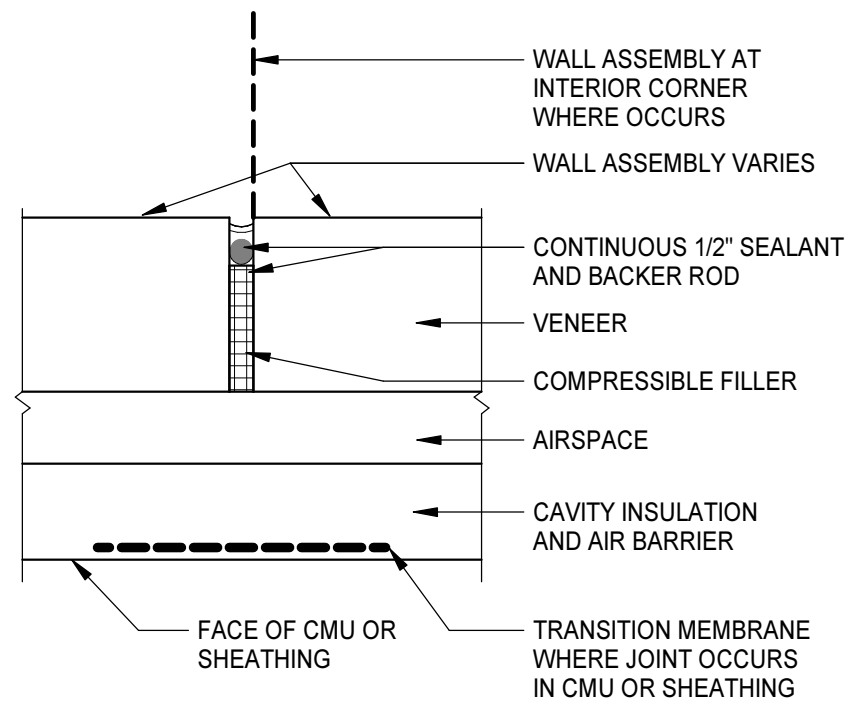
DIFFERENTIAL
BEARING CMU
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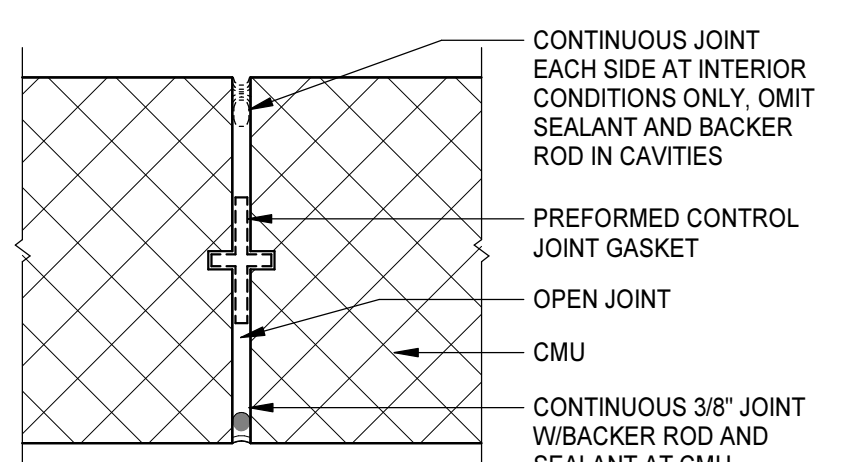
RATED/
NON-
RATED
CMU



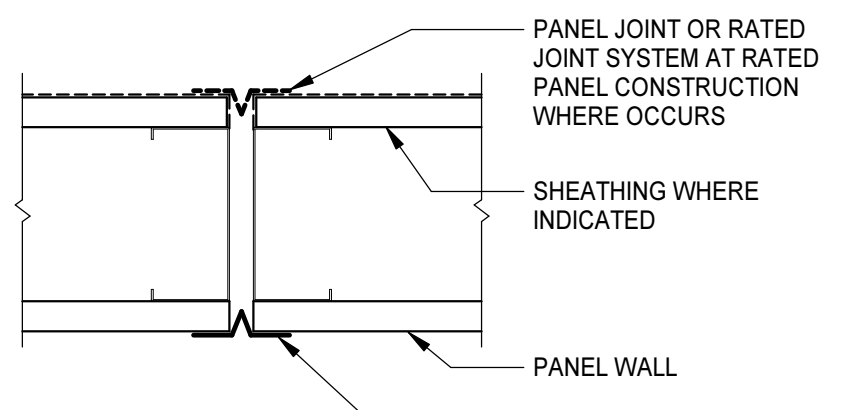
VENEER/
CAVITY



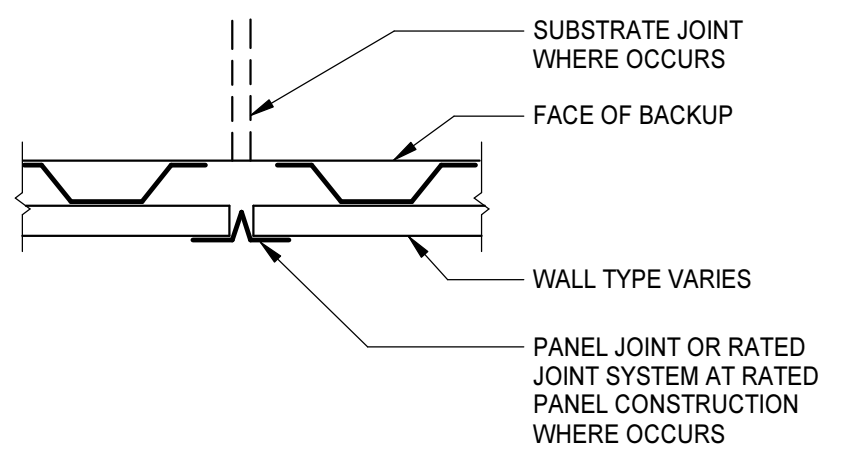
CMU



CFSF/
PANELS



PANEL

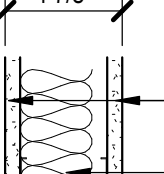

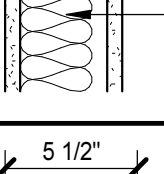
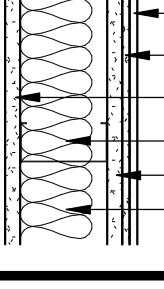
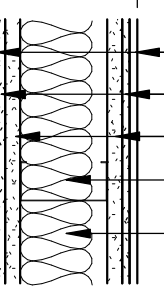
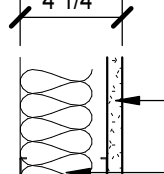
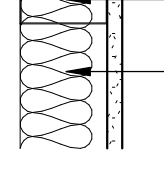

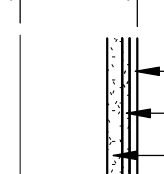
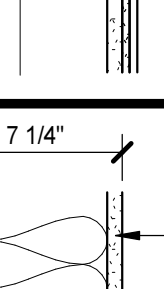
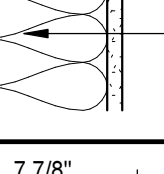
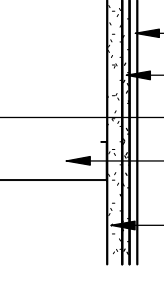


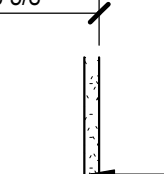
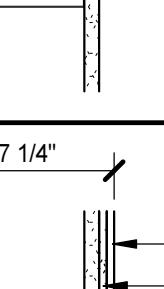
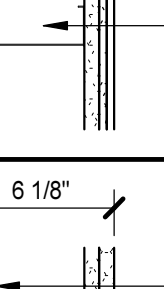
WALL/PARTITION TYPE GENERAL NOTES

- A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.
- B. EXTEND WALL/PARTITION ASSEMBLY COMPONENTS FULL HEIGHT OF ASSEMBLY.
- C. ALL INTERIOR MASONRY UNIT PARTITIONS: M1 UNLESS INDICATED OTHERWISE.
- D. ALL INTERIOR CFSF PANEL PARTITIONS: P1 UNLESS INDICATED OTHERWISE.
- E. REFER TO STRUCTURAL DRAWINGS AND RELATED SPECIFICATIONS FOR SOLID MASONRY, GROUTING, AND REINFORCEMENT REQUIREMENTS INCLUDING BUT MAY NOT BE LIMITED TO:
- MASONRY WALLS/PARTITIONS
 - LINTELS
 - LINTEL BEARING CONDITIONS
 - BOND BEAMS
 - SHELF BEARING CONDITIONS
 - STRUCTURAL REINFORCING REQUIREMENTS
 - CHANGES IN WYTHE
- F. THE TERMS 'WALL' AND 'PARTITION' MAY BE USED INTERCHANGEABLY THROUGHOUT THE CONTRACT DOCUMENTS.
- G. EXTEND ALL FIRE-, SMOKE-, INCIDENTAL USE-, AND ACOUSTICAL-RATED WALLS/PARTITIONS TO UNDERSIDE OF FLOOR DECK, ROOF DECK, STRUCTURAL ELEMENT ENCASMENT OR SOLID CAP ABOVE.
- SEAL AND TERMINATE IN ACCORDANCE WITH JOINT SYSTEM TESTED ASSEMBLIES FOR RESPECTIVE TYPE OF WALLS/PARTITIONS.
- H. PARTITIONS THAT DO NOT EXTEND TO UNDERSIDE OF DECK OR CAP ABOVE:
- EXTEND 4 INCHES MINIMUM ABOVE HIGHEST ADJACENT FINISH CEILING UNLESS INDICATED OTHERWISE.
- I. DO NOT CONNECT TIES, ANCHORS, OR REINFORCING TO SINGLE CANTILEVERED FIRE WALL OR BETWEEN DOUBLE FIRE WALLS.
- J. SEAL AROUND ALL PENETRATIONS.
- K. COMPLY WITH TERMINATION, WALL JOINT, AND MISCELLANEOUS DETAILS FOR THOSE CONDITIONS WHERE APPLICABLE. COMPLY WITH REFERENCED STANDARDS WHERE DETAILS ARE NOT IDENTIFIED IN THE DRAWINGS.
- L. WALL/PARTITION TYPES DO NOT ADDRESS WALL FINISHES. REFER TO FINISH SCHEDULE.
- M. FINISHED SPACES: PROVIDE CHASES AROUND ALL EXPOSED VERTICAL COMPONENTS, INCLUDING BUT NOT LIMITED TO: DUCTWORK, PIPING, AND CONDUIT, UNLESS COMPONENTS ARE SPECIFICALLY INDICATED TO REMAIN EXPOSED. IF NOT OTHERWISE INDICATED, PROVIDE P2 CHASE CONSTRUCTION.
- HOLD CHASES TIGHT TO COMPONENTS ALLOWING FOR ACCESS, INSULATION, AND TOLERANCES.
 - EXTEND CHASES FROM FLOOR TO 4 INCHES MINIMUM ABOVE FINISH CEILING OR IF NO CEILING IS INDICATED, EXTEND CHASES TO UNDERSIDE OF FLOOR DECK, ROOF DECK, OR SOLID CAP ABOVE AND TERMINATE ACCORDINGLY.
- N. PROVIDE BACKER BOARD/UNIT OF SAME THICKNESS INDICATED IN LIEU OF GYPSUM BOARD PANEL AT PORTIONS OF WALLS/PARTITIONS TO RECEIVE TILE.

PANEL WALL/PARTITION TYPES

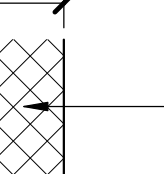

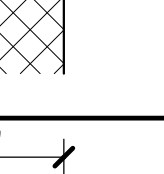
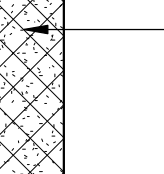

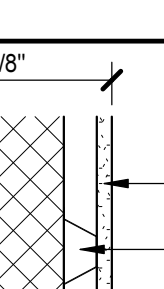
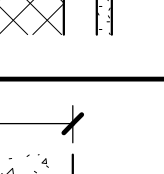
REPRESENTED BY  Xmm

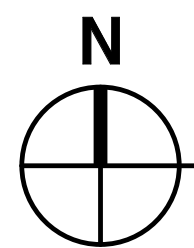
MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P1	-	-	
P1-1		1-HOUR FIRE-RATED PARTITION	
P1A	-	-	
P1B	-	-	
P2	-	-	
P2B	-	NO SAB	
P2-1		1-HOUR FIRE-RATED PARTITION	
P2A	-	-	
P3	-	-	
P3A	-	-	

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
P4	-	-	
P4A	-	-	
P5-2	-	2-HOUR FIRE-RATED PARTITION	

MASONRY UNIT WALL/PARTITION TYPES

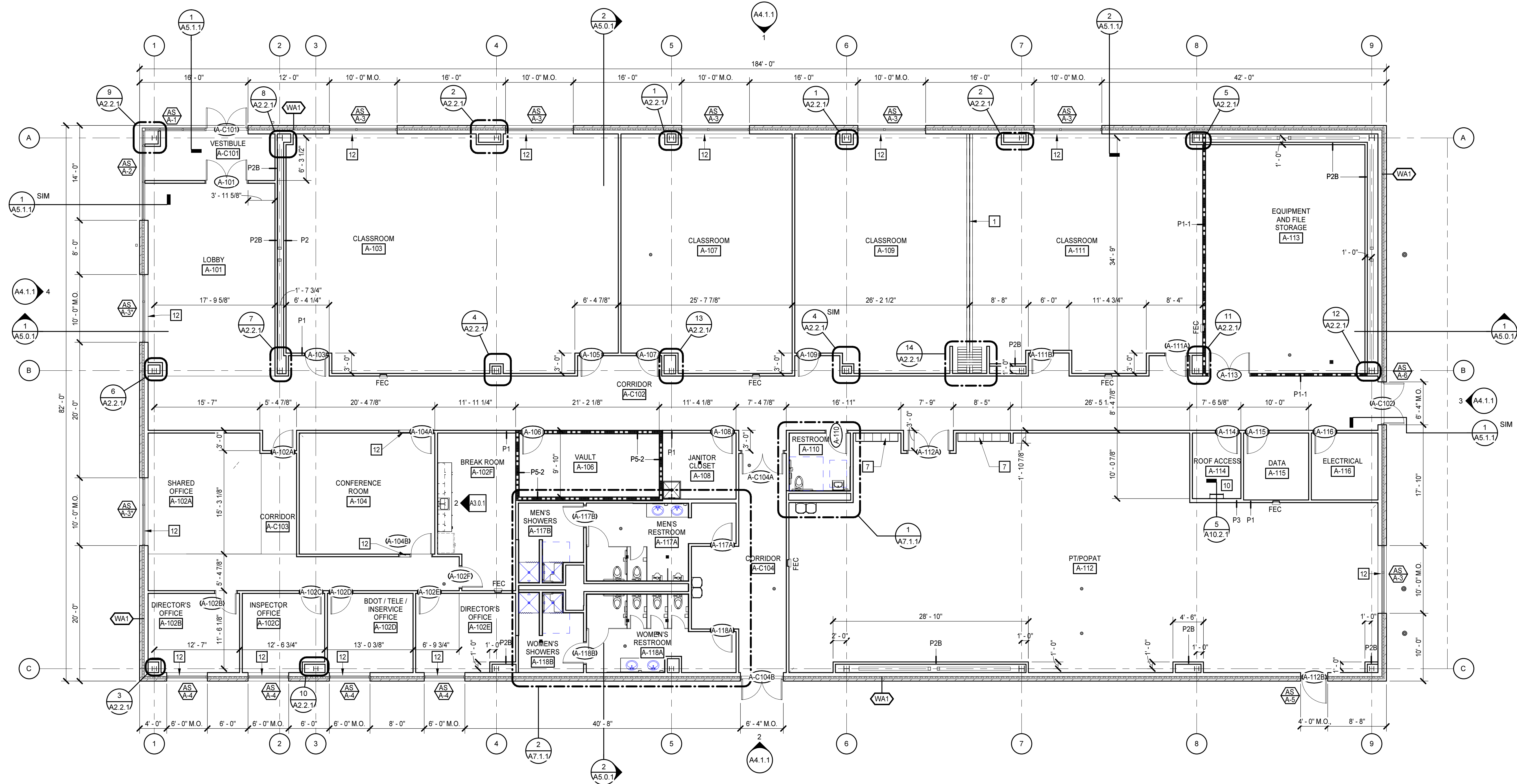
REPRESENTED BY  Xmm

MARK	FIRE RATED ASSEMBLY (REFER TO LS 1.1 FOR LEGEND)	REMARKS	INFORMATION
M1	-	-	
M1-2		2-HOUR FIRE-RATED BARRIER, GROUT SOLID	
M2	-	-	
M2A-1		1-HOUR FIRE-RATED BARRIER	
C1	-	-	



CLASSROOM-ADMINISTRATION BUILDING - FLOOR PLAN

1/8" = 1'-0"



FLOOR PLAN KEYNOTES

REPRESENTED BY [A]

APPLIES TO DRAWINGS A2.1.n

1	OPERABLE PARTITION
2	SUSPENDED RUNNING MAN TARGET (1)
3	LATERAL TURNING TARGETS (12)
4	FIRE-RESISTIVE GRANULAR RUBBER BULLET TRAP
5	BALLISTIC RUBBER TILE, 1 1/2", UP TO 10'-4" AFF
6	ACOUSTICAL NOISE REDUCTION PANELS, UP TO 10'-4" AFF
7	LOCKER, TWO-TIERED
8	LAMINAR FLOW DIFFUSER PLENUM
9	PERFORATED METAL PANEL WALL
10	VERTICAL FIXED ROOF LOCKABLE ACCESS LADDER WITH CAGE
11	FIRING RANGE FLOOR PAINTING, REFER TO A3.0.2 FOR MORE INFORMATION
12	HORIZONTAL LOUVER BLIND
13	SPLASHBLOCK



PROJECT NO.	600646
DATE	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

CASEWORK GENERAL NOTES

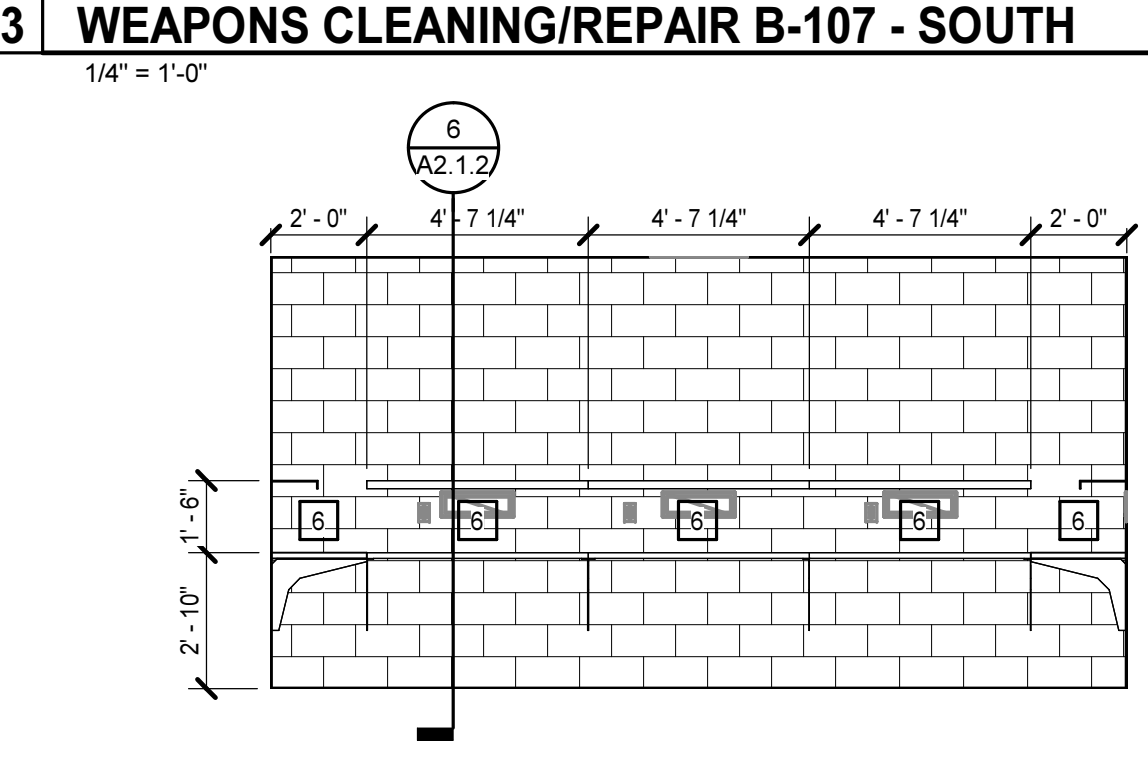
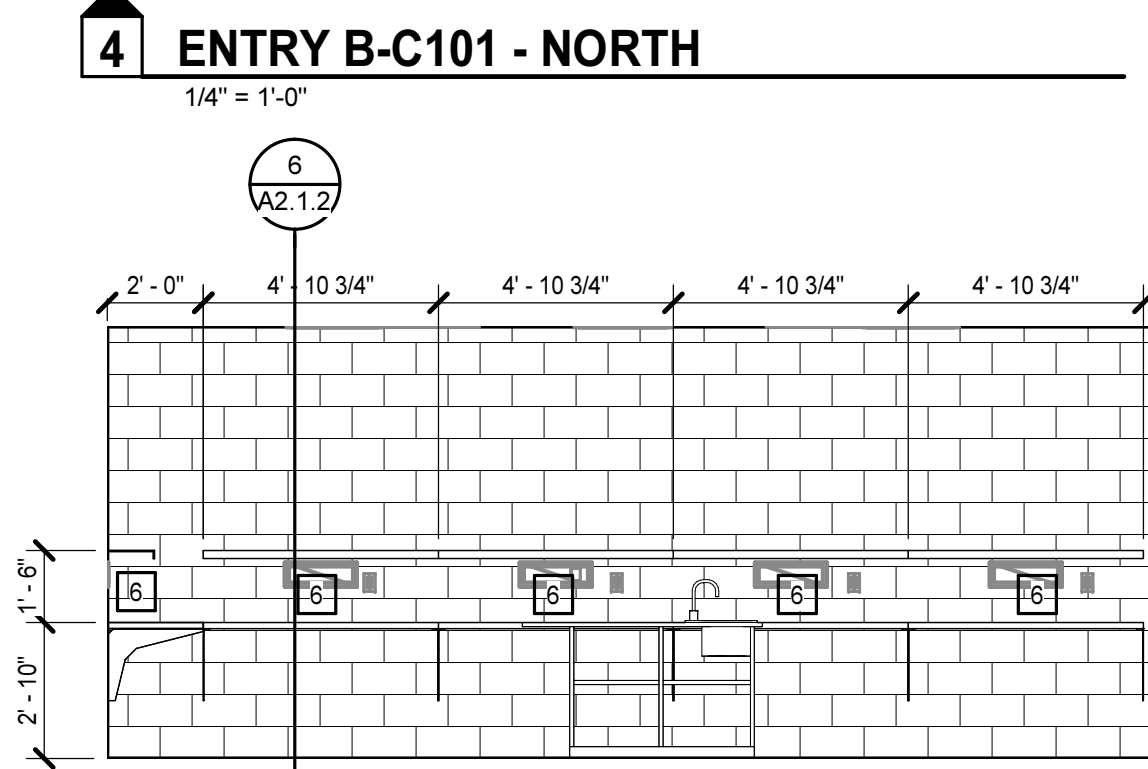
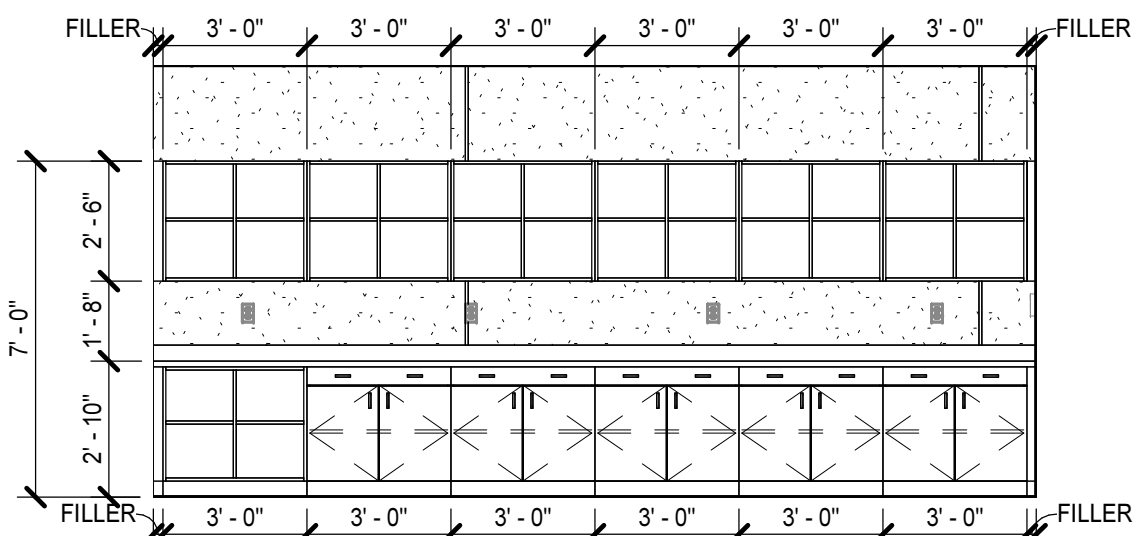
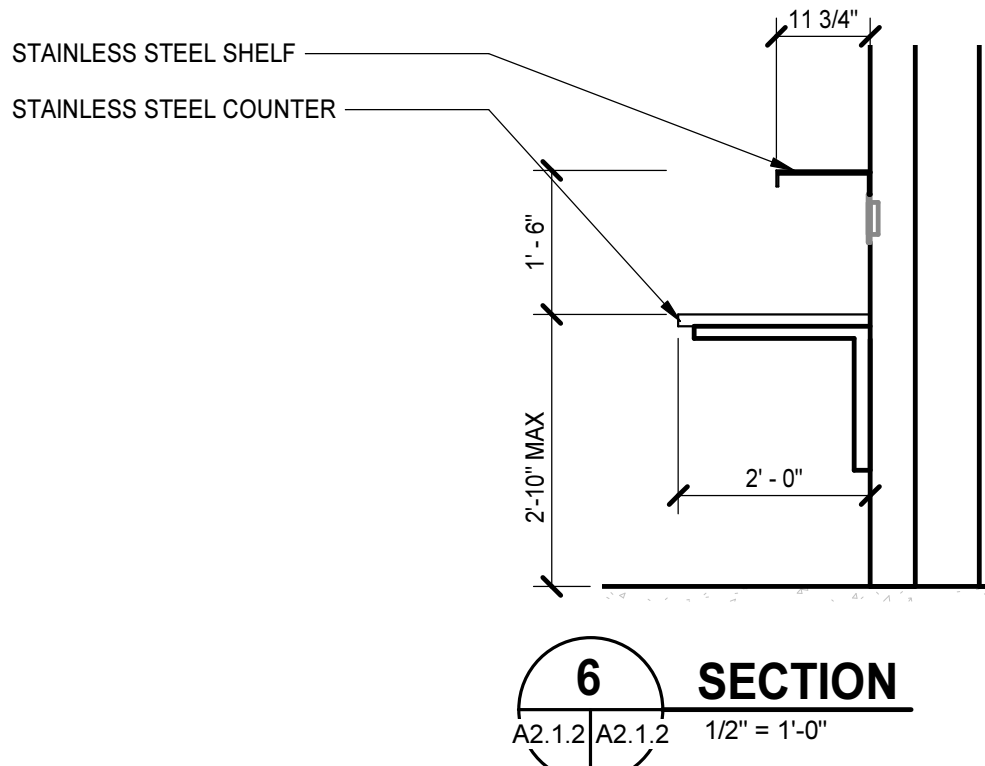
- A. UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
- 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
 - 2'-1" DEEP
 - SOLID SURFACE
 - BACKSPASHES: 4" HIGH AT ALL SIDES AND BACK
 - EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS.
- B. UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
- 2'-0" DEEP NOMINAL
 - TOE KICKS: 4" HIGH AND 3" DEEP
 - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS
- C. UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
- 1'-0 1/2" DEEP NOMINAL
 - 2'-6" HIGH
 - TOP AT 7'-0" AFF
 - MINIMUM 11" CLEAR INTERIOR DEPTH
- D. BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.
- E. ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.
- F. PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.
- G. LOCKS: UNLESS INDICATED OTHERWISE.

CASEWORK KEYNOTES

REPRESENTED BY [A]	
APPLIES TO DRAWINGS A3.0.1 AND 2-5 A2.1.2	
1	UNDER COUNTER SUPPORT BRACKET
2	BARRIER-FREE UNDER SINK PANEL. REFER TO SECTION 6/A3.0.1 FOR DETAILS.
3	SSM COUNTERTOP WITH APRON
4	REMOVEABLE PLAM PANEL 4'-0" WIDE MAX.
5	CONT 1X2 WD BLOCKING WITH BRACKETS FOR Z CLIPS.
6	STAINLESS STEEL WEAPONS COUNTER
7	NOT IN CONTRACT

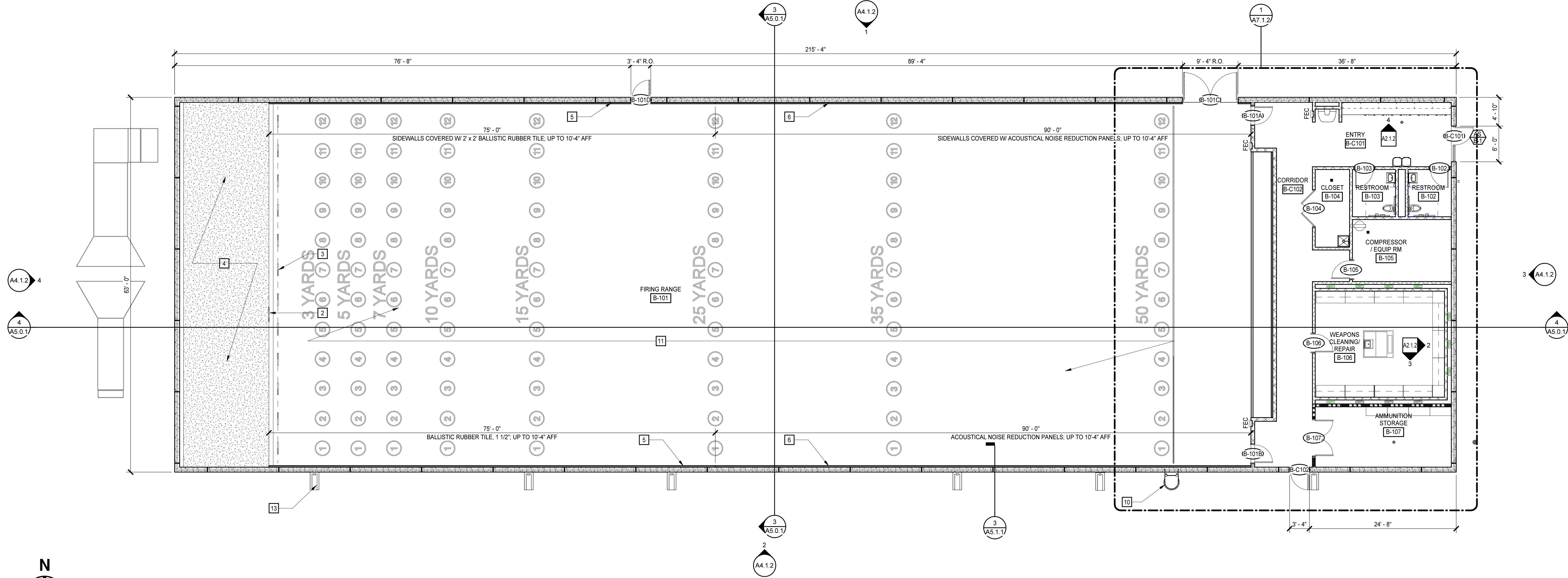
FLOOR PLAN KEYNOTES

REPRESENTED BY [A]	
APPLIES TO DRAWINGS A2.1.n	
1	OPERABLE PARTITION
2	SUSPENDED RUNNING MAN TARGET (1)
3	LATERAL TURNING TARGETS (12)
4	FIRE-RESISTIVE GRANULAR RUBBER BULLET TRAP
5	BALLISTIC RUBBER TILE, 1 1/2": UP TO 10'-4" AFF
6	ACOUSTICAL NOISE REDUCTION PANELS, UP TO 10'-4" AFF
7	LOCKER, TWO-TIERED
8	LAMINAR FLOW DIFFUSER PLENUM
9	PERFORATED METAL PANEL WALL
10	VERTICAL FIXED ROOF LOCKABLE ACCESS LADDER WITH CAGE
11	FIRING RANGE FLOOR PAINTING. REFER TO A3.0.2 FOR MORE INFORMATION
12	HORIZONTAL LOUVER BLIND
13	SPLASHBLOCK

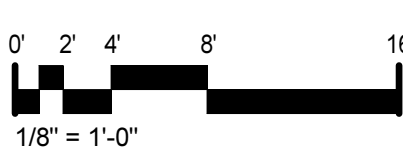


5 INDOOR FIRING RANGE RESTROOM FLOOR PATTERN
A2.1.2 1/4" = 1'-0"

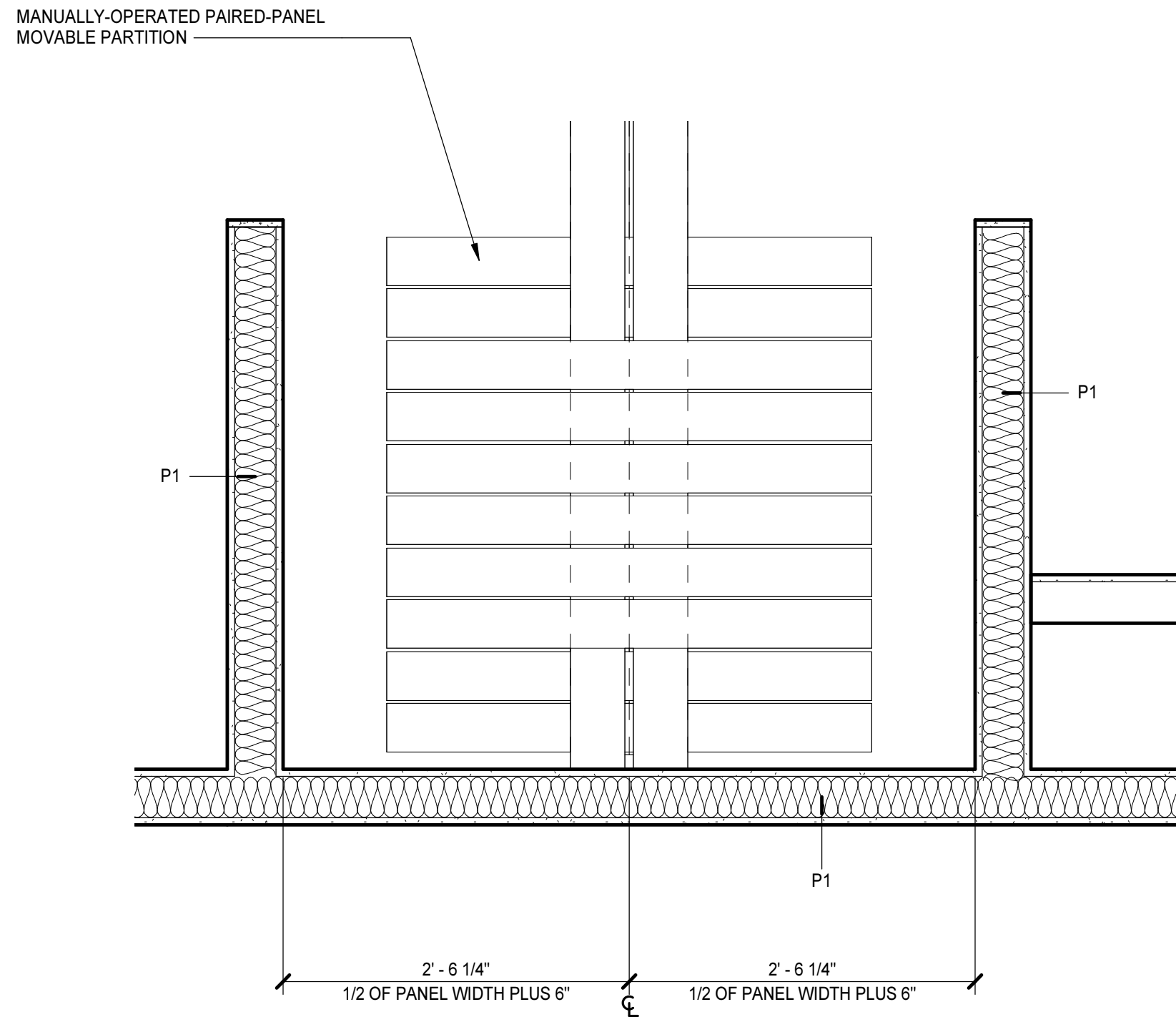
2 WEAPONS CLEANING/REPAIR B-107 - EAST
1/4" = 1'-0"



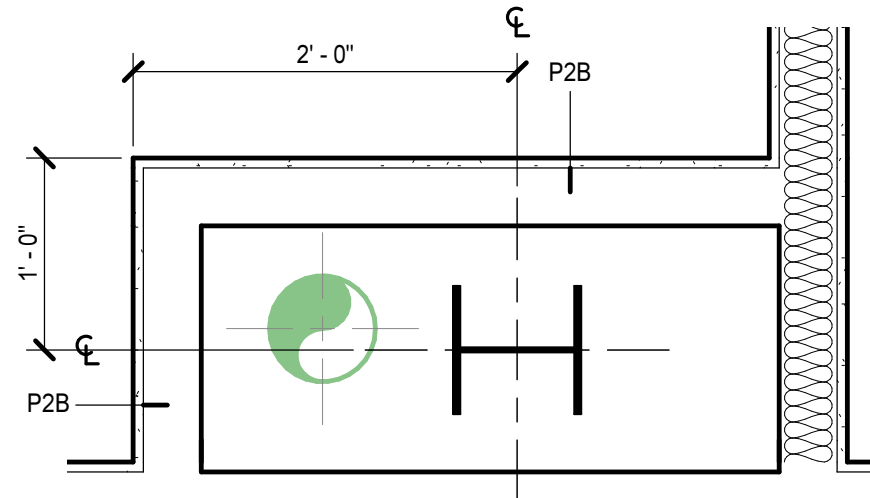
ALTERNATE NO. 1: INDOOR FIRING RANGE - FLOOR PLAN
1/8" = 1'-0"



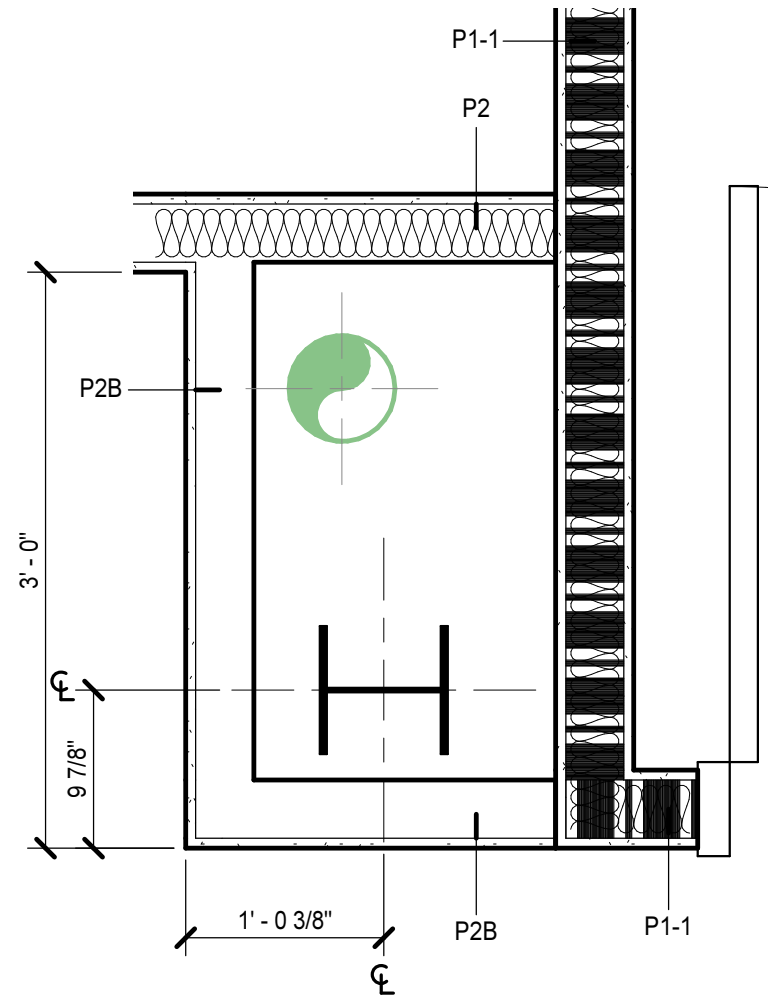
14 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



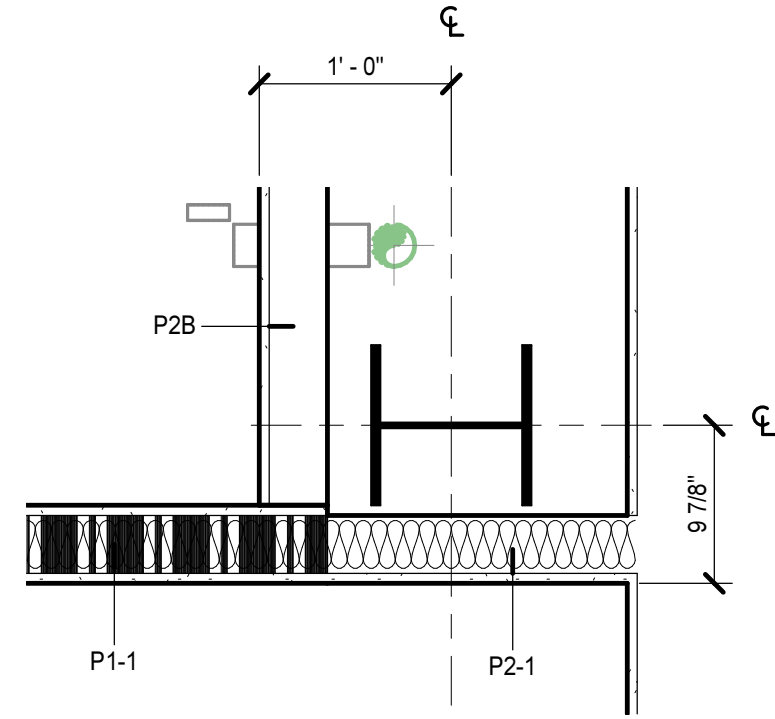
10 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



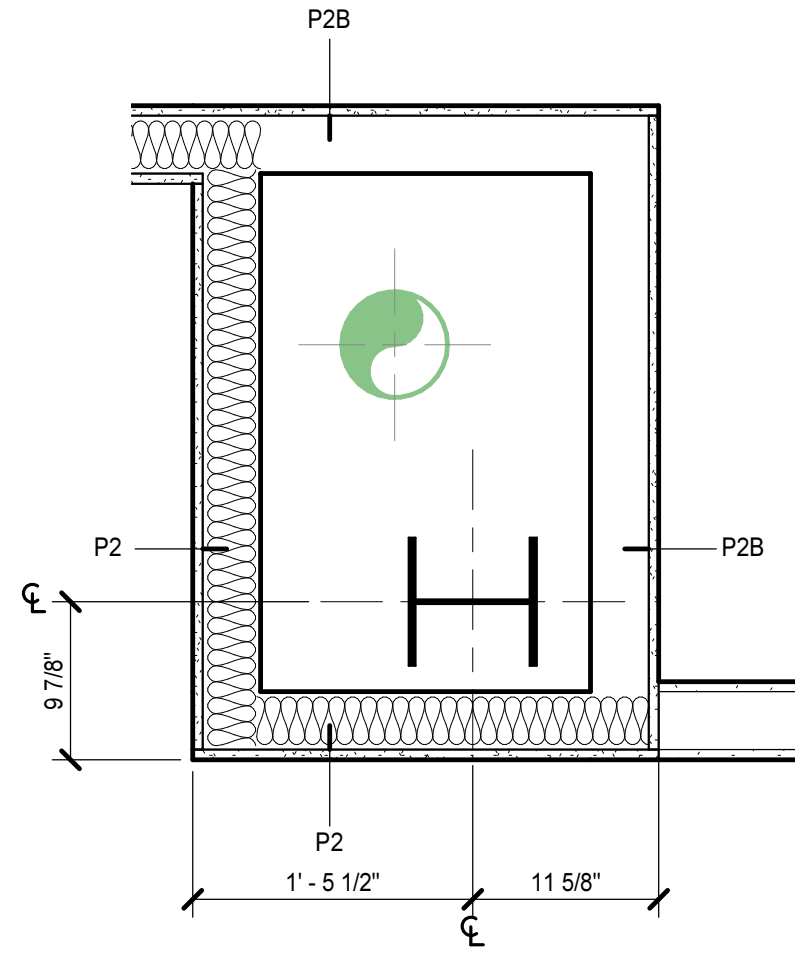
11 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



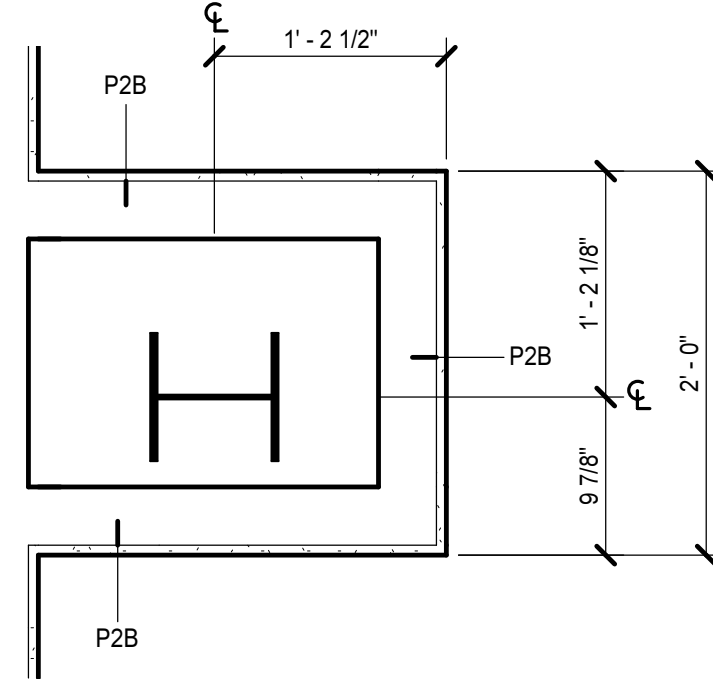
12 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



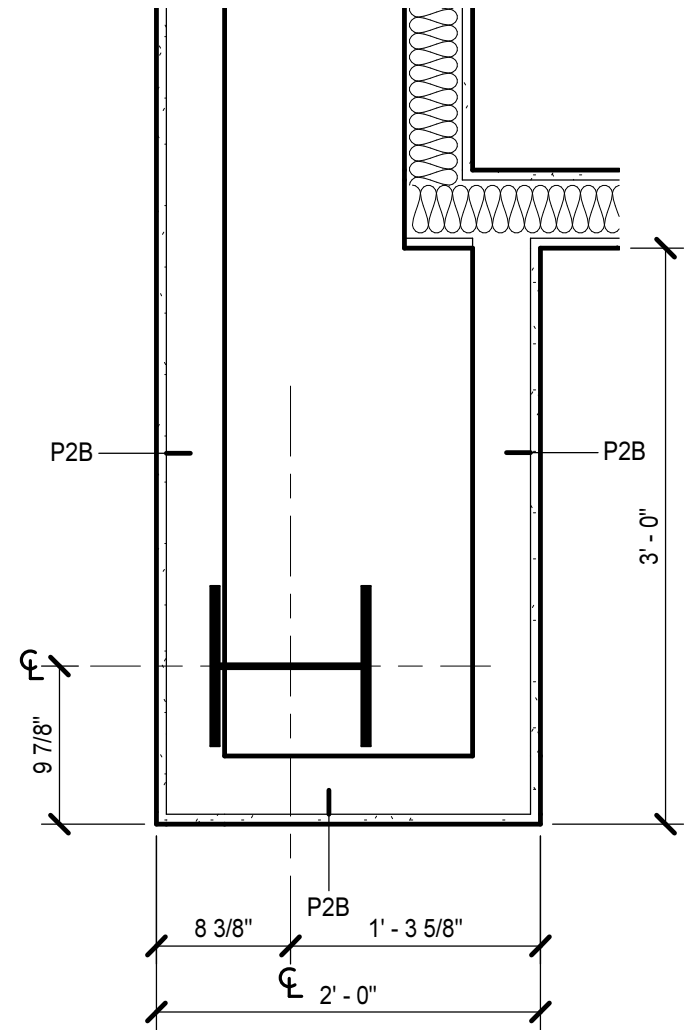
13 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



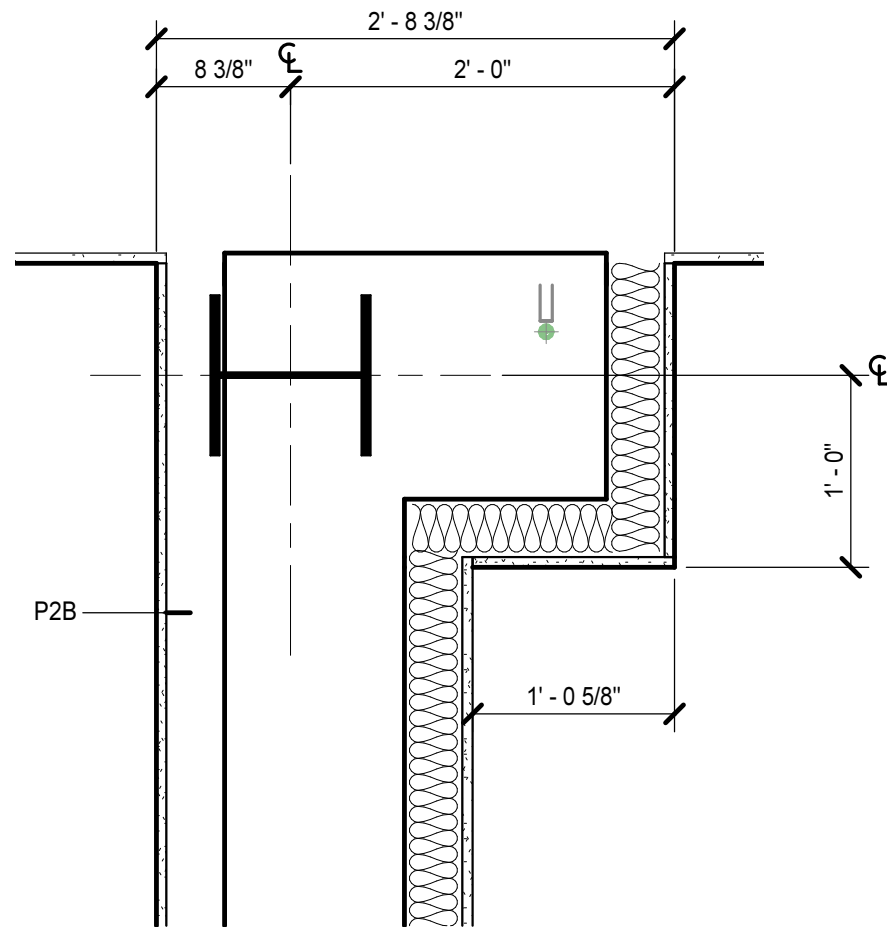
6 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



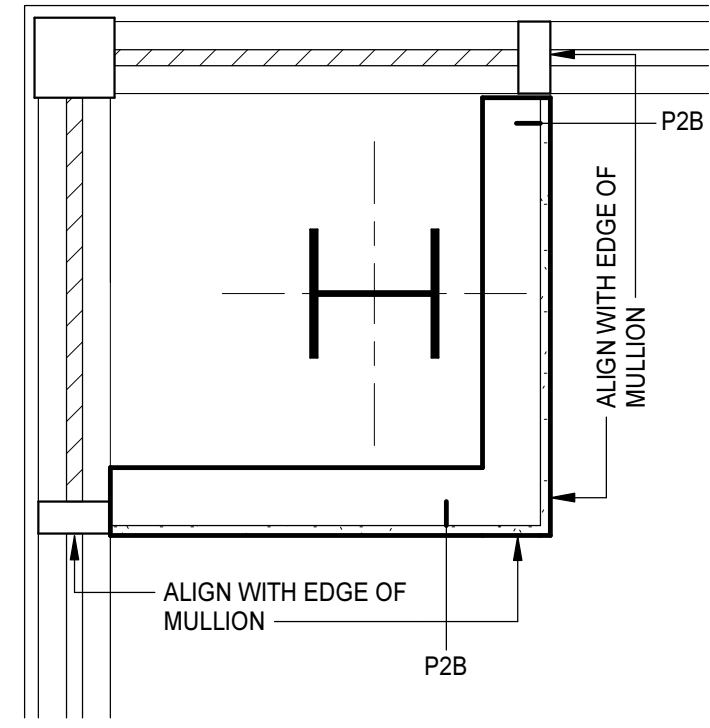
7 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



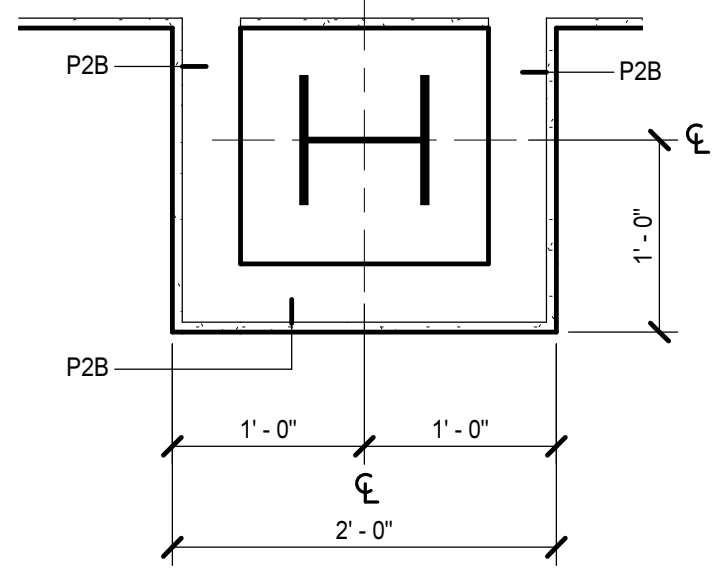
8 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



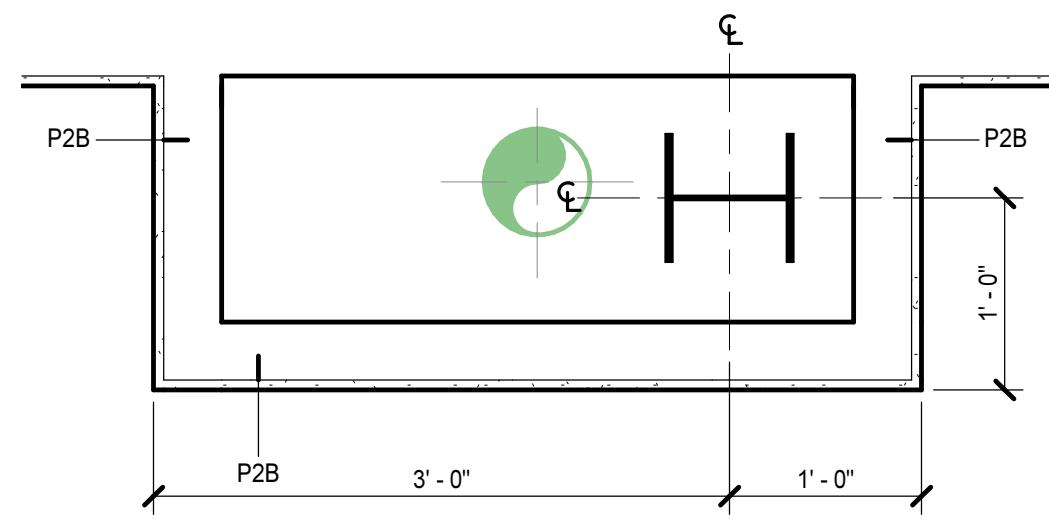
9 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



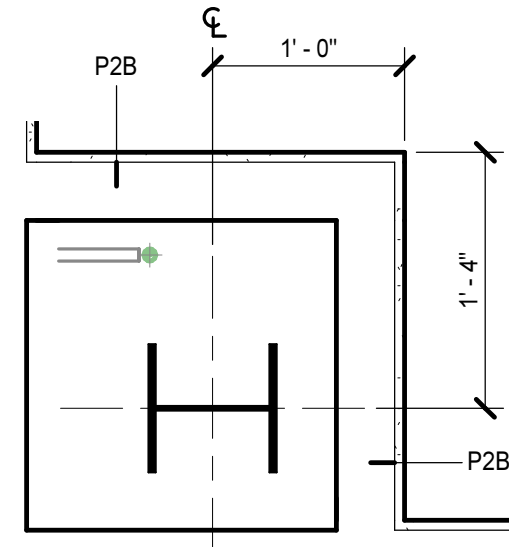
1 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



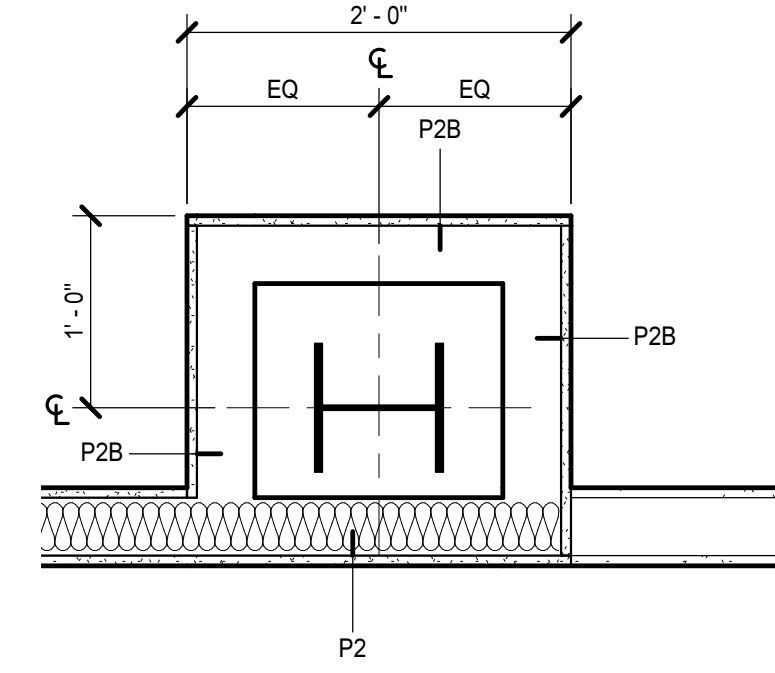
2 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



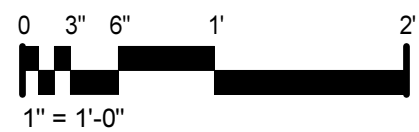
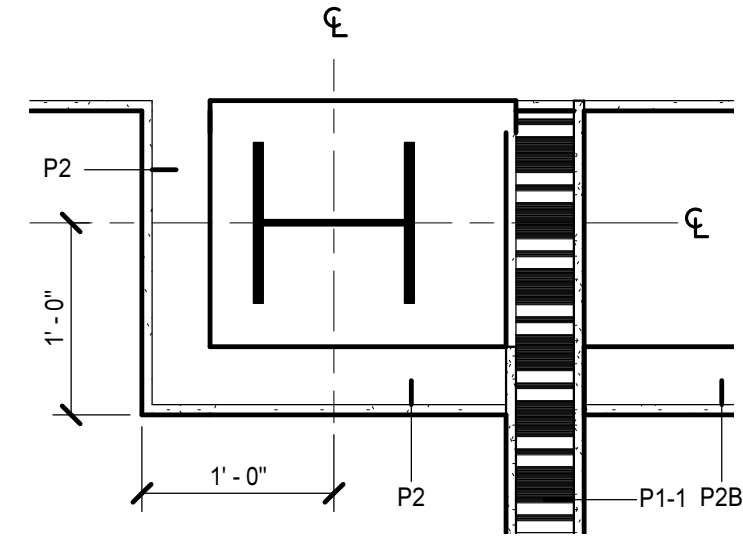
3 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



4 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"

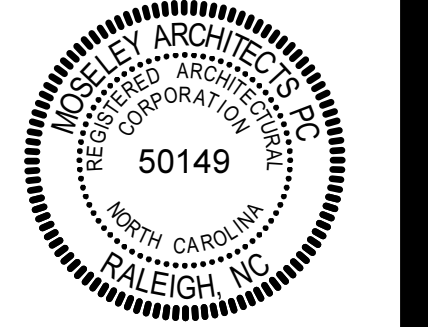


5 PLAN DETAIL
A2.1.1 | A2.2.1 1" = 1'-0"



PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

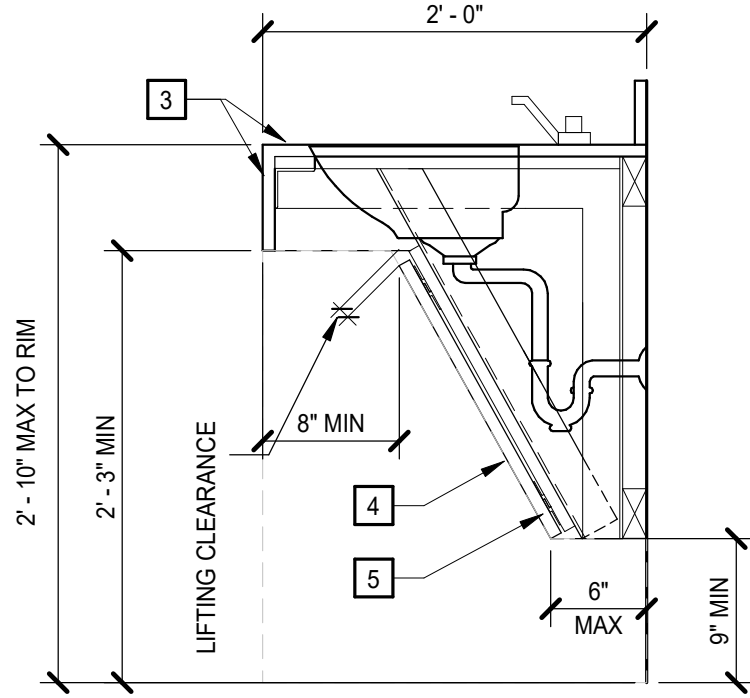
PUBLIC SAFETY TRAINING CENTER
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217



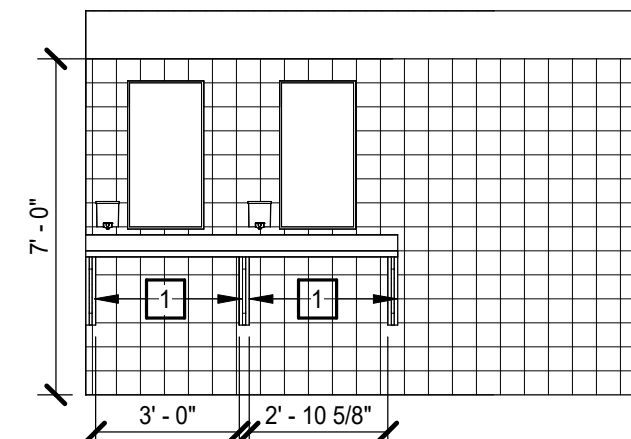
FINISH SCHEDULE - CLASSROOM-ADMINISTRATION BUILDING

Number	Name	FLOOR	BASE	WALLS				WAINSCOT	CEILING	NOTES
				NORTH	EAST	SOUTH	WEST			
A-101	LOBBY	CONC-SLR	RB	PT-1	PT-1	PT-1	PT-1	--	ACP, GB PT-3	
A-102A	SHARED OFFICE	C-TILE	RB	PT-1	PT-1	PT-1	PT-1	--	ACP	
A-102B	DIRECTOR'S OFFICE	C-TILE	RB	PT-1	PT-1	PT-1	A-PT-1	--	ACP	1
A-102C	INSPECTOR OFFICE	C-TILE	RB	PT-1	PT-1	PT-1	A-PT-1	--	ACP	1
A-102D	BDOT / TELE / INSERVICE OFFICE	C-TILE	RB	PT-1	A-PT-1	PT-1	PT-1	--	ACP	1
A-102E	DIRECTOR'S OFFICE	C-TILE	RB	PT-1	A-PT-1	PT-1	PT-1	--	ACP	1
A-102F	BREAK ROOM	VT-1	RB	PT-1	PT-1	PT-1	PT-1	--	ACP	
A-103	CLASSROOM	C-TILE	RB	PT-1	--	PT-1	A-PT-1	--	ACP	1
A-104	CONFERENCE ROOM	C-TILE	RB	PT-1	PT-1	PT-1	A-PT-1	--	ACP	1
A-105	CLASSROOM	C-TILE	RB	PT-1	A-PT-1	PT-1	--	--	ACP	1
A-106	VAULT	VT	RB	PT-1	PT-1	PT-1	PT-1	--	ACP	
A-107	CLASSROOM	C-TILE	RB	PT-1	PT-1	PT-1	A-PT-1	--	ACP	
A-108	JANITOR CLOSET	CONC-SLR	-	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	--	ACP	
A-109	CLASSROOM	C-TILE	RB	PT-1	--	PT-1	A-PT-1	--	ACP	1
A-110	RESTROOM	P-TILE	GWT	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT 7'-0" AFF	GB PT-3	
A-111	CLASSROOM	C-TILE	RB	PT-1	A-PT-1	PT-1	--	--	ACP	1
A-112	PT/POPAT	RAF	-	A-PT-1	PT-1	PT-1	A-PT-1	--	EXPC PT-3	1
A-113	EQUIPMENT AND FILE STORAGE	VT	RB	PT-1	PT-1	PT-1	PT-1	--	EXPC PT-3	
A-114	ROOF ACCESS	CONC-SLR	-	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	--	EXPC PT-3	
A-115	DATA	CONC-SLR	-	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	--	EXPC PT-3	
A-116	ELECTRICAL	CONC-SLR	-	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	--	EXPC PT-3	
A-117A	MEN'S RESTROOM	RES	GWT	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT 7'-0" AFF	GB PT-3	
A-117B	MEN'S SHOWERS	RES	GWT	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT 7'-0" AFF	GB PT-3	
A-118A	WOMEN'S RESTROOM	RES	GWT	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT 7'-0" AFF	GB PT-3	
A-118B	WOMEN'S SHOWERS	RES	GWT	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT / EPX PT-1	GWT 7'-0" AFF	GB PT-3	
A-C101	VESTIBULE	CONC-SLR	RB	PT-1	PT-1	PT-1	PT-1	--	EXPC PT-3	
A-C102	CORRIDOR	VT	RB	PT-1	PT-1	PT-1	PT-1	--	ACP, GB PT-3	
A-C103	CORRIDOR	VT	RB	PT-1	PT-1	PT-1	PT-1	--	ACP	1
A-C104	CORRIDOR	VT	RB	PT-1	PT-1	PT-1	PT-1	--	ACP	

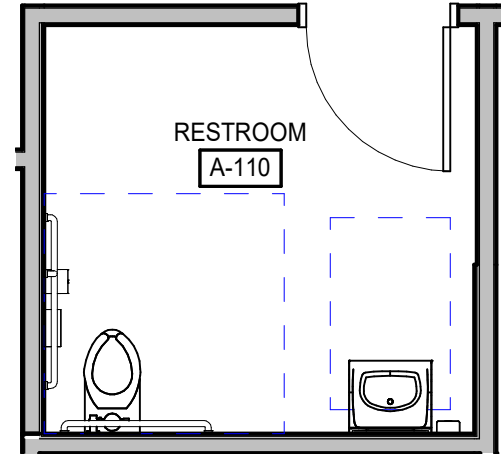
NOTE:
1. REFER TO THE FURNITURE FLOOR PLAN FOR LOCATIONS OF ACCENT PAINT.



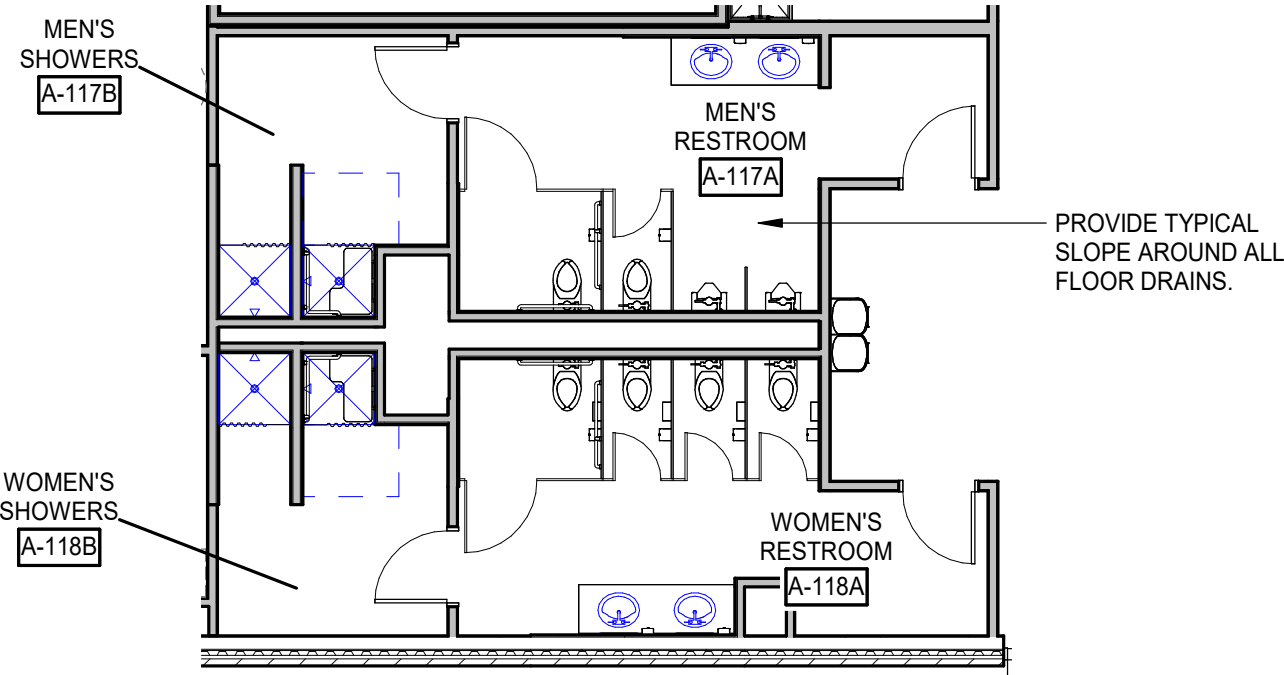
6 BREAKROOM SINK SECTION
1" = 1'-0"



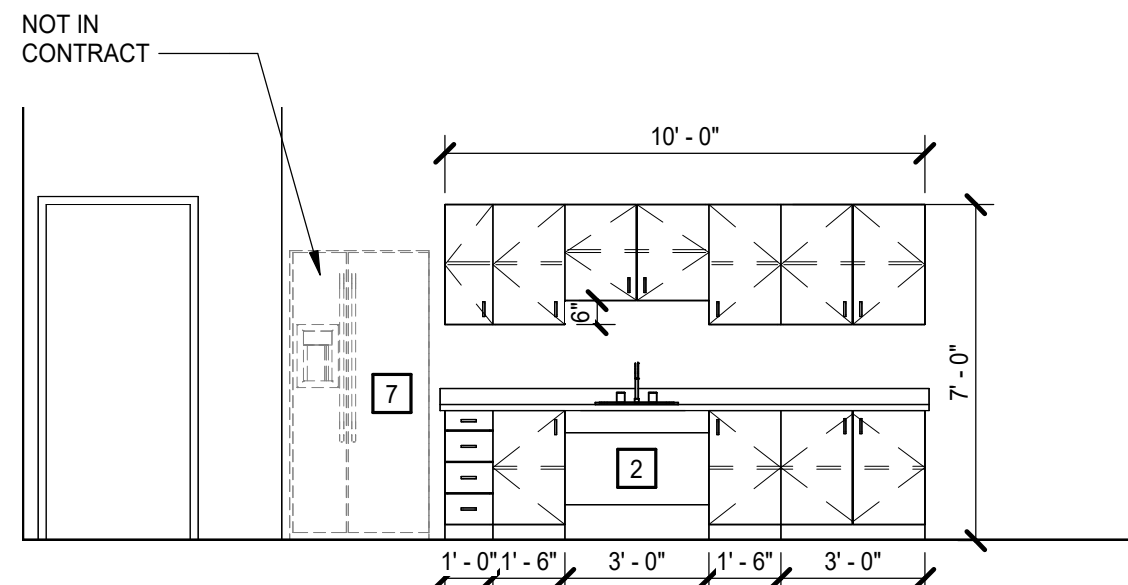
5 TYP RESTROOM ELEVATION
1/4" = 1'-0"



4 CLASSROOM/ADMIN BUILDING RESTROOM FLOOR PATTERN
A3.0.1 1/4" = 1'-0"



3 CLASSROOM/ADMIN BUILDING RESTROOM & SHOWERS FLOOR PATTERN
A3.0.1 1/8" = 1'-0"



2 BREAKROOM A-102F
1/4" = 1'-0"



1 CLASSROOM / ADMINISTRATION BUILDING - FINISH PLAN
A3.1.1 A3.0.1 1/8" = 1'-0"
NOTE: FURNITURE NOT IN CONTRACT

FINISH SCHEDULE GENERAL NOTES

- FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.
- PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.
- CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.
- DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.
- BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.
- PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.
- REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING..

CASEWORK GENERAL NOTES

- UNLESS INDICATED OTHERWISE, ALL COUNTERTOP(S):
 - 2'-10" AFF OR 2'-10" TO TOP OF RIM AT DROP-IN SINKS AND LAVATORIES WHERE OCCURS
 - 2'-1" DEEP
 - SOLID SURFACE
 - BACKSPASHES: 4" HIGH AT ALL SIDES AND BACK
 - EXTEND COUNTERTOP 1/2" PAST BASE CABINET AT ALL EXPOSED CASEWORK ENDS.
- UNLESS INDICATED OTHERWISE, ALL BASE CABINET(S):
 - 2'-0" DEEP NOMINAL
 - TOE KICKS: 4" HIGH AND 3" DEEP
 - SINK LOCATIONS: 3'-0" WIDE CLEAR KNEE SPACE (NO BASE CABINET) FOR BARRIER FREE ACCESS
- UNLESS INDICATED OTHERWISE, ALL WALL CABINET(S):
 - 1'-4 1/2" DEEP NOMINAL
 - 2'-6" HIGH
 - TOP AT 7'-0" AFF
 - MINIMUM 1" CLEAR INTERIOR DEPTH
- BUILT-IN EQUIPMENT: SIZE OPENING (HEIGHT, WIDTH, AND DEPTH) AND ROUGH-IN REQUIREMENTS AS REQUIRED BASED ON APPROVED MANUFACTURER SUBMITTED.
- ALL SHELVES: ADJUSTABLE UNLESS INDICATED OTHERWISE.
- PROVIDE FINISH END PANELS AT ALL EXPOSED CASEWORK ENDS.
- LOCKS: UNLESS INDICATED OTHERWISE.

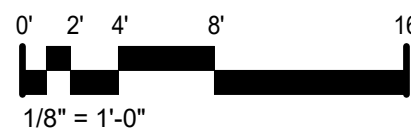
FINISH PLAN GENERAL NOTES

- DASH LINE INDICATES LOCATION OF ACCENT PAINT
- A-PT DENOTES ACCENT PAINT.

CASEWORK KEYNOTES

REPRESENTED BY [1]
APPLIES TO DRAWINGS A3.0.1 AND 2-5 A2.1.2

1	UNDER COUNTER SUPPORT BRACKET
2	BARRIER-FREE UNDER SINK PANEL. REFER TO SECTION 0/A3.0.1 FOR DETAILS.
3	SSM COUNTERTOP WITH APRON.
4	REMOVEABLE PLAM PANEL, 4'-0" WIDE MAX.
5	CONT 1X2 WD BLOCKING WITH BRACKETS FOR Z CLIPS.
6	STAINLESS STEEL WEAPONS COUNTER
7	NOT IN CONTRACT



J
I
H
G
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A

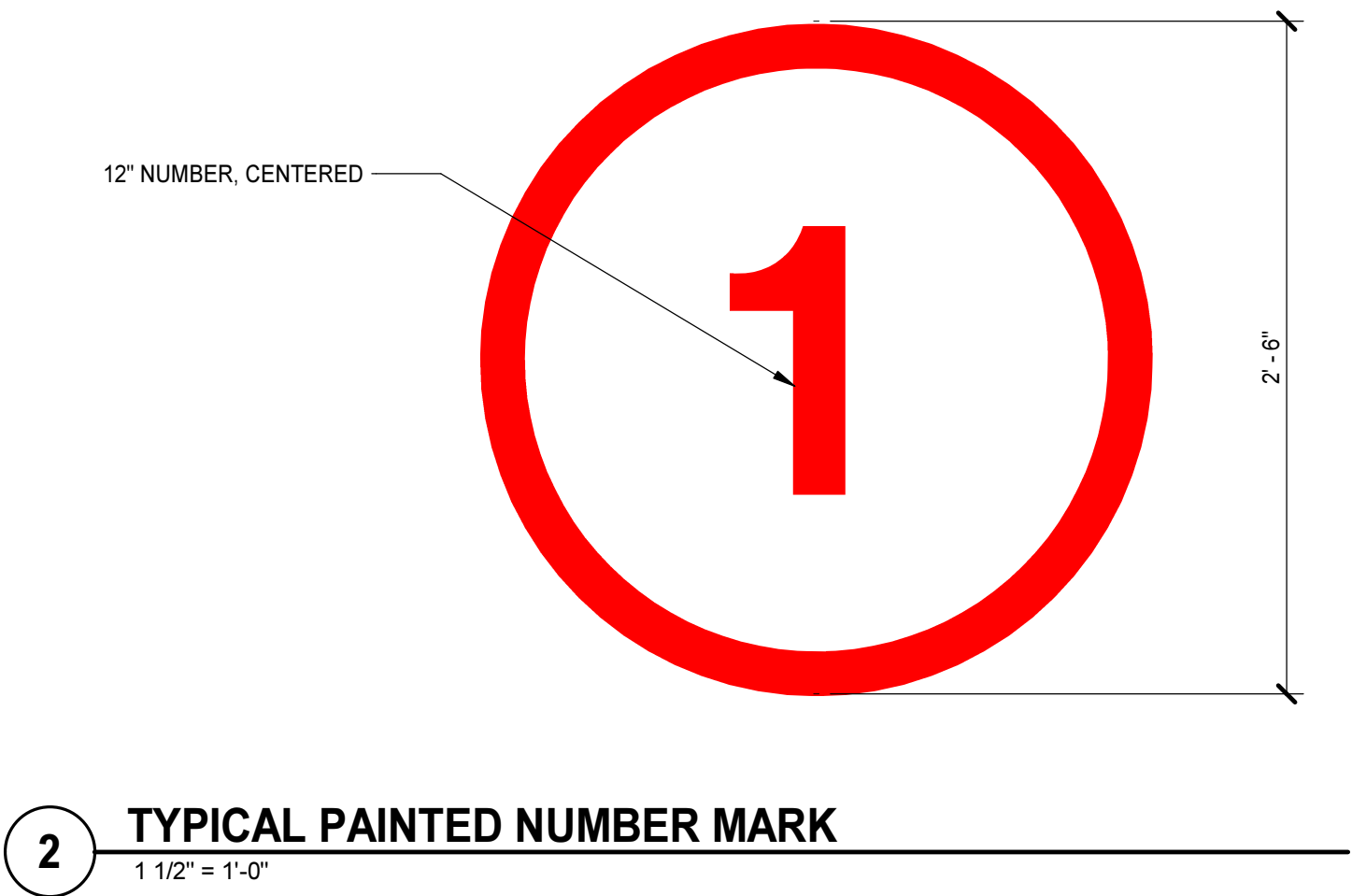
12
11
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2
1

FINISH SCHEDULE - INDOOR FIRING RANGE											
Number	Name	FLOOR	BASE	WALLS				WAINSCOT	CEILING		NOTES
				NORTH	EAST	SOUTH	WEST				
B-101	FIRING RANGE	CONC-SLR	-	PT-1	PT-1	PT-1	PT-2	-	BCT	2	
B-102	RESTROOM	P-TILE	P-TILE	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	-	GB PT-3	2	
B-103	RESTROOM	P-TILE	P-TILE	EPX PT-1	EPX PT-1	EPX PT-1	EPX PT-1	-	GB PT-3	2	
B-104	CLOSET	VT	RB	PT-1	PT-1	PT-1	PT-1	-	EXPC PT-3	2	
B-105	COMPRESSOR / EQUIP RM	VT	RB	PT-1	PT-1	PT-1	PT-1	-	EXPC PT-3	2	
B-106	WEAPONS CLEANING/ REPAIR	VT	RB	PT-1	PT-1	PT-1	PT-1	-	ACP	2	
B-107	AMMUNITION STORAGE	VT	RB	PT-1	PT-1	PT-1	PT-1	-	EXPC PT-3	2	
B-C101	ENTRY	VT	RB	PT-1	PT-1	PT-1	PT-1	-	ACP	2	
B-C102	CORRIDOR	VT	RB	PT-1	PT-1	PT-1	PT-1	-	ACP	2	

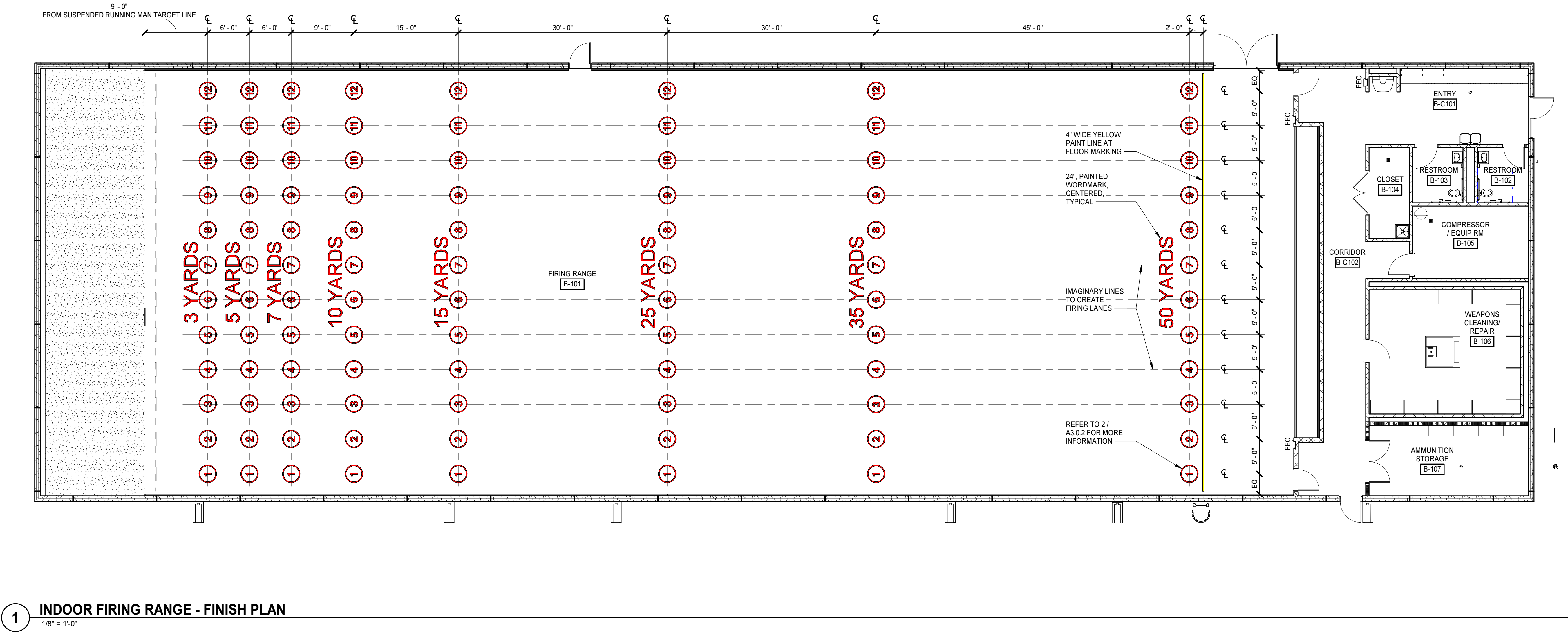
NOTE:

2. PART OF ALTERNATE NUMBER 1

FINISH SCHEDULE GENERAL NOTES
A. FINISH SCHEDULE DESCRIBES ONLY THE BASIC OR PREDOMINANT SURFACE FINISH.
B. PROVIDE SAME FINISHES AS THE ADJACENT SPACE IN ALCOVES AND CONTINUOUS SPACES WITHOUT DESIGNATED SPACE NUMBERS.
C. CASEWORK FINISHES ARE NOT NOTED IN THE FINISH SCHEDULE. REFER TO CASEWORK ELEVATIONS AND SPECIFICATIONS FOR MATERIALS AND FINISHES.
D. DIRECTIONAL WALL FINISH INDICATORS (NORTH, EAST, SOUTH, WEST) REFER TO THE "PLAN" NORTH ORIENTATION.
E. BULKHEADS AND SOFFITS MAY NOT BE INDICATED IN FINISH SCHEDULES. REFER TO RCP DETAILS, AND OTHER DOCUMENTS FOR EXTENT.
F. PROVIDE CONTINUOUS SEALANT BETWEEN INTERIOR SLAB-ON-GRADE AND VERTICAL ELEMENT WHERE JOINT IS NOT CONCEALED BY FINISH BASE OR OTHER CONSTRUCTION.
G. REFER TO SPECIFICATIONS FOR INFORMATION ON FINISH FIRE CLASSIFICATION RATING..



2 TYPICAL PAINTED NUMBER MARK
1 1/2" = 1'-0"



1 INDOOR FIRING RANGE - FINISH PLAN
1/8" = 1'-0"



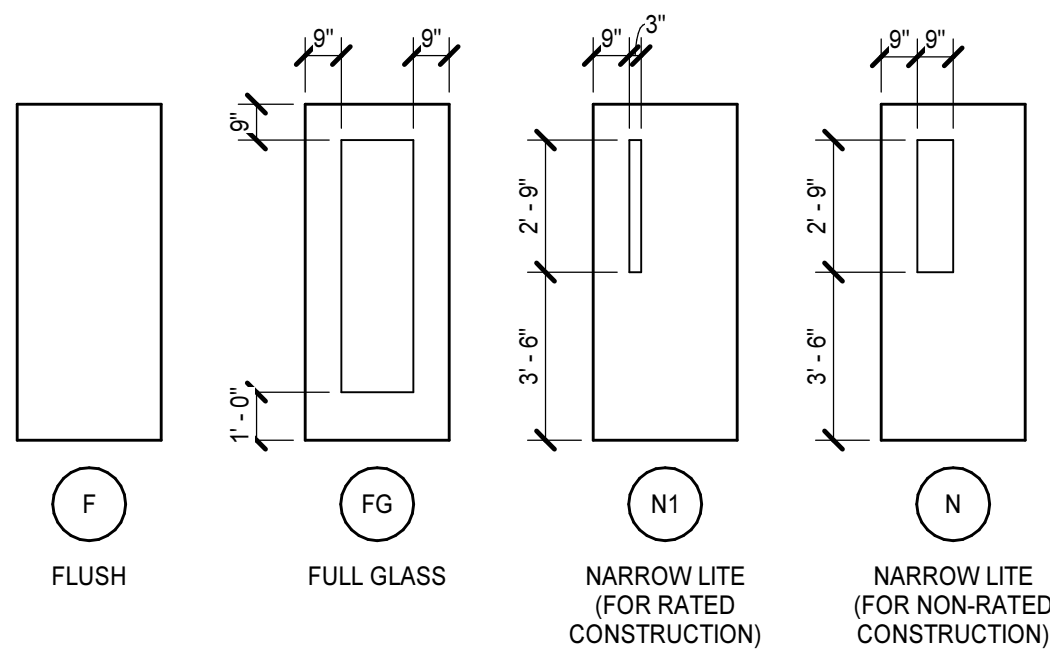
PROJECT NO. 600646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

DOOR SCHEDULE - CLASSROOM-ADMINISTRATION BUILDING												
NUMBER	DOOR			MATL	UC	DOOR		FRAME				NOTES
	TYPE	SIZE (NOMINAL)	GLAZING TYPE			TYPE	NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	HW SET	
A-101	FG	PR 3'-0"x7'-0"x1 3/4"	ALUM	-	-	1	ALUM	1	A	1	10.0	4
A-102A	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	22.0	
A-102B	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	19.0	
A-102C	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	19.0	
A-102D	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	19.0	
A-102E	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	19.0	
A-102F	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	17.0	
A-103	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14.0	
A-104A	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	3	A	1	20.0	
A-104B	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	3	A	1	20.0	
A-105	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14.0	
A-106	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	12.0	45 MIN 1
A-107	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14.0	
A-108	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	23.0	
A-109	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14.0	
A-110	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	18.0	2
A-111A	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14.0	
A-111B	N	3'-0"x7'-0"x1 3/4"	WD	-	1	1	STL	1	A	1	14	
A-112A	FG	PR 3'-0"x7'-0"x1 3/4"	ALUM	-	1	1	STL	1	A	1	16.0	
A-112B	FG	3'-0"x7'-0"x2"	ALUM	-	2	1	BY MFR	BY MFR	BY MFR	2.0	-	1
A-113	F	PR 3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	25.0	45 MIN
A-114	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	23.0	
A-115	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	12.0	1
A-116	F	3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	23.0	
A-117A	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	27.0	2
A-117B	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	26.0	
A-118A	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	27.0	2
A-118B	F	3'-0"x7'-0"x1 3/4"	WD	3/4"	-	-	STL	1	A	1	26.0	
A-C101	FG	PR 3'-0"x7'-0"x2"	ALUM	-	1, 3	1	ALUM	-	BY MFR	BY MFR	5.0	1, 3
A-C102	FG	PR 3'-0"x7'-0"x2"	ALUM	-	2	1	ALUM	-	BY MFR	BY MFR	4.0	1
A-C104A	F	PR 3'-0"x7'-0"x1 3/4"	WD	-	-	-	STL	1	A	1	15.0	
A-C104B	F	PR 3'-0"x7'-0"x2"	STL	-	-	-	STL	2	A	3	7.0	1

DOOR SCHEDULE - ALTERNATE NO. 1 - INDOOR FIRING RANGE												
NUMBER	DOOR			MATL	UC	GLAZING TYPE	TYPE	FRAME				NOTES
	TYPE	SIZE (NOMINAL)	GLAZING TYPE					NUMBER	SECTIONS	HEAD DETAIL	JAMB DETAIL	
B-101A	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	22.0
B-101B	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	22.0
B-101C	F	PR 4'-6"x8'-6"x1 3/4"	STL	-	-	-	STL	2	A	17	17	16
B-101D	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	17	17	16
B-102	F	3'-0"x7'-0"x1 3/4"	STL	3/4"	-	-	STL	2	A	3	3	18.0
B-103	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	18.0
B-104	F	PR 3'-0"x7'-0"x1 3/4"	STL	3/4"	-	-	STL	2	A	3	3	24.0
B-105	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	23.0
B-106	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	21.0
B-107	F	PR 3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	13.0
B-C101	FG	3'-0"x7'-0"x1 3/4"	ALUM	-	2	1	ALUM	-	BY MFR	BY MFR	BY MFR	3.0
B-C102	F	3'-0"x7'-0"x1 3/4"	STL	-	-	-	STL	2	A	3	3	6.0

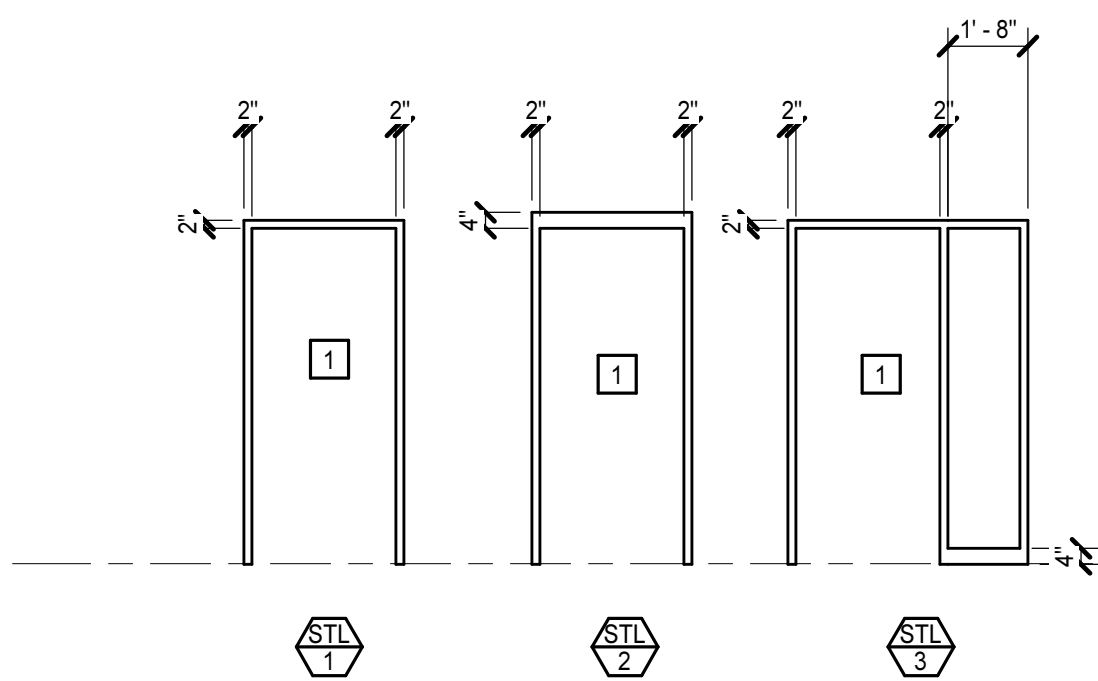
NOTE:

- CARD READER, NIC - FOR INFORMATIONAL PURPOSES ONLY
- TOUCHLESS WAVE SENSOR, WALL-MOUNTED, NIC - FOR INFORMATIONAL PURPOSES ONLY
- ACCESS CONTROL PUSH BUTTON, BOLLARD
- ACCESS CONTROL PUSH BUTTON, WALL-MOUNTED
- BALLISTIC-STEEL DOOR PANEL AND FRAME, REFER TO PROJECT MANUAL FOR MORE INFORMATION.



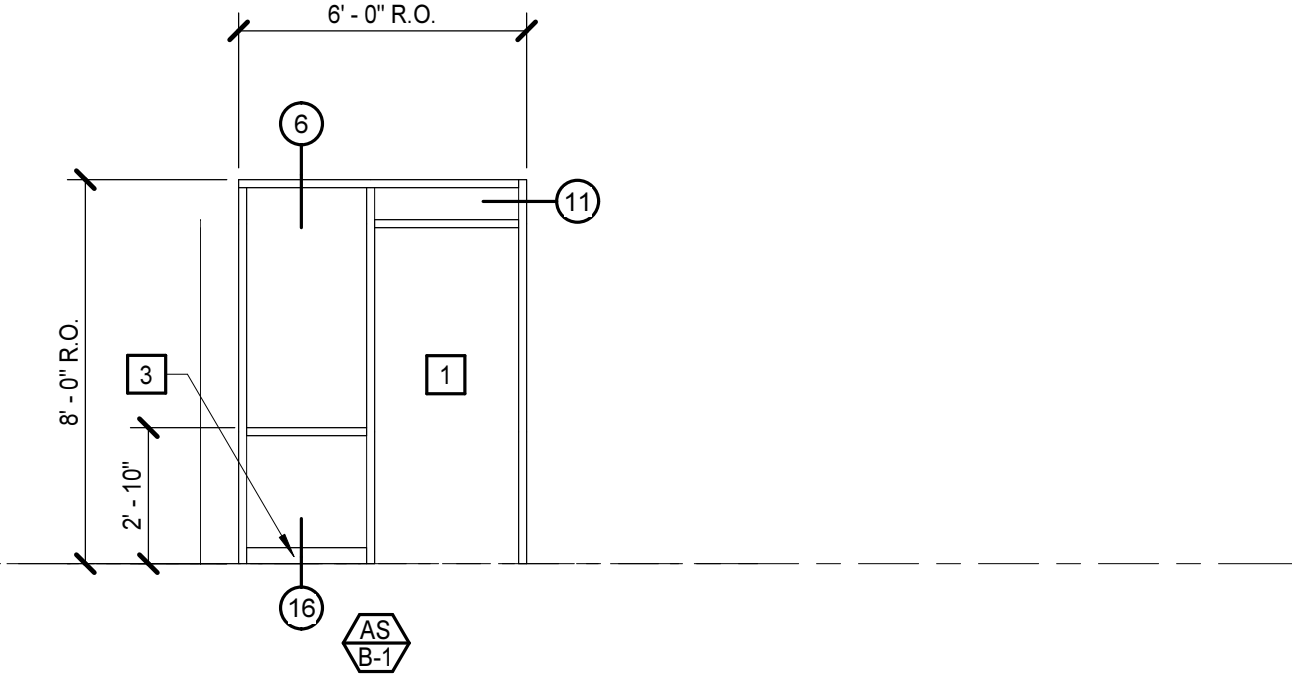
DOOR TYPES

1/4" = 1'-0"



STEEL FRAME TYPES

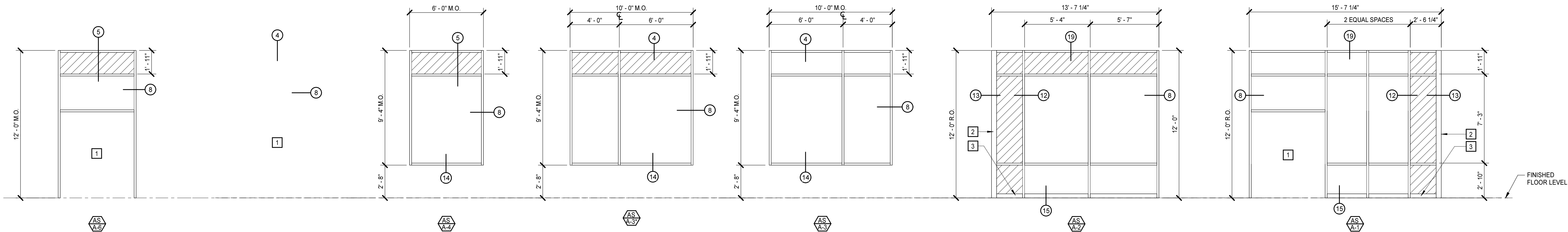
1/4" = 1'-0"



ALUMINUM FRAME TYPES FOR INDOOR FIRING RANGE

1/4" = 1'-0"

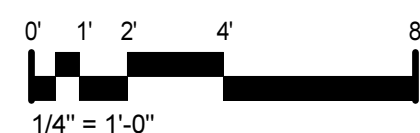
MULLIONS ARE 2" x 4.5" UNLESS NOTED OTHERWISE



EXTERIOR ALUMINUM STOREFRONT FRAME TYPES FOR CLASSROOM-ADMINISTRATION BUILDING

1/4" = 1'-0"

MULLIONS ARE 2" x 4.5" UNLESS NOTED OTHERWISE



GENERAL NOTES

REFER TO DWG A3.1.n FOR GLAZING TYPE LEGEND AND NOTES

REFER TO DWG A3.2.1-A3.2.n FOR DETAILS

REFER TO DWG A3.1.n FOR KEYNOTE LEGEND

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1 - A3.2.n.

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G. SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

GLAZING TYPES

REPRESENTED BY (n)

1. 1/4" CLEAR

2. 1" TINTED INSULATING

3. 1" SPANDREL PANEL INSULATING

NOTES:

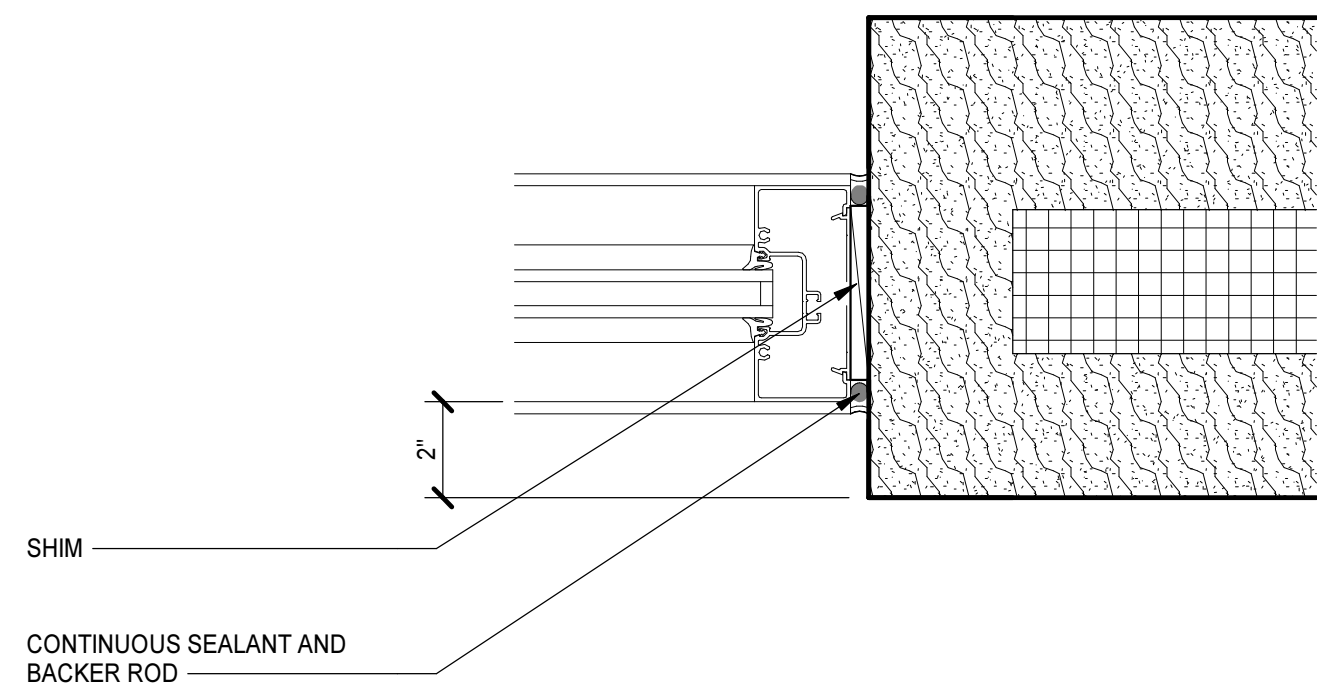
- ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO
- ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2, UNO
- GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
- ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY (n)

APPLIES TO DRAWINGS A3.1.n

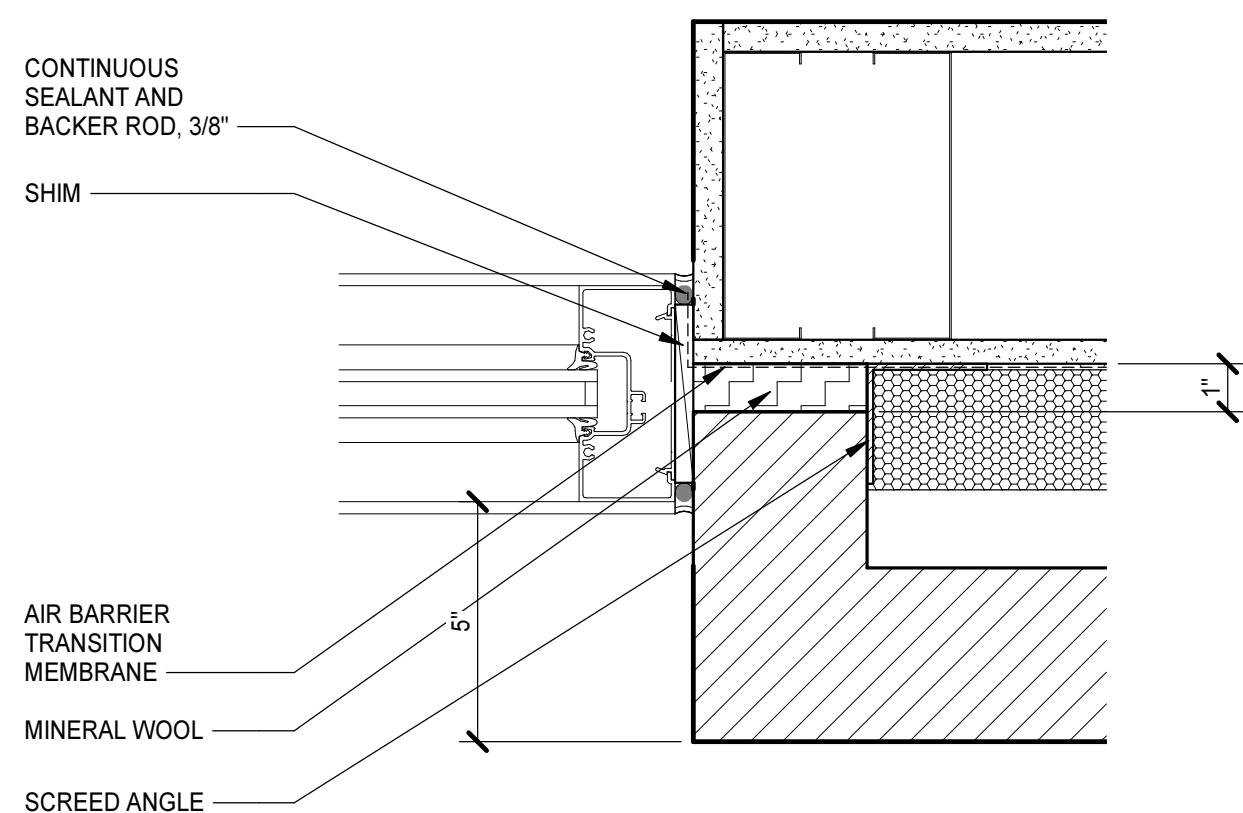
1	SIZE OPENING TO SUIT DOOR, REFER TO DOOR SCHEDULE ON SHEET A3.1.1
2	CORNER MULLION
3	4" x 4.5" MULLION



11 STOREFRONT JAMB DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"

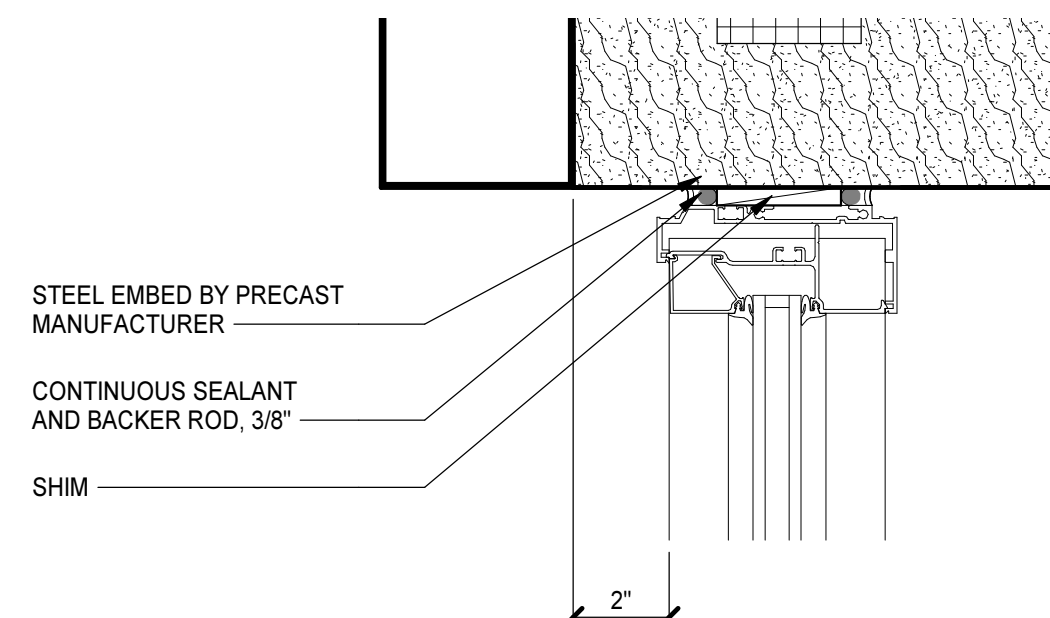
10 NOT USED

9 NOT USED

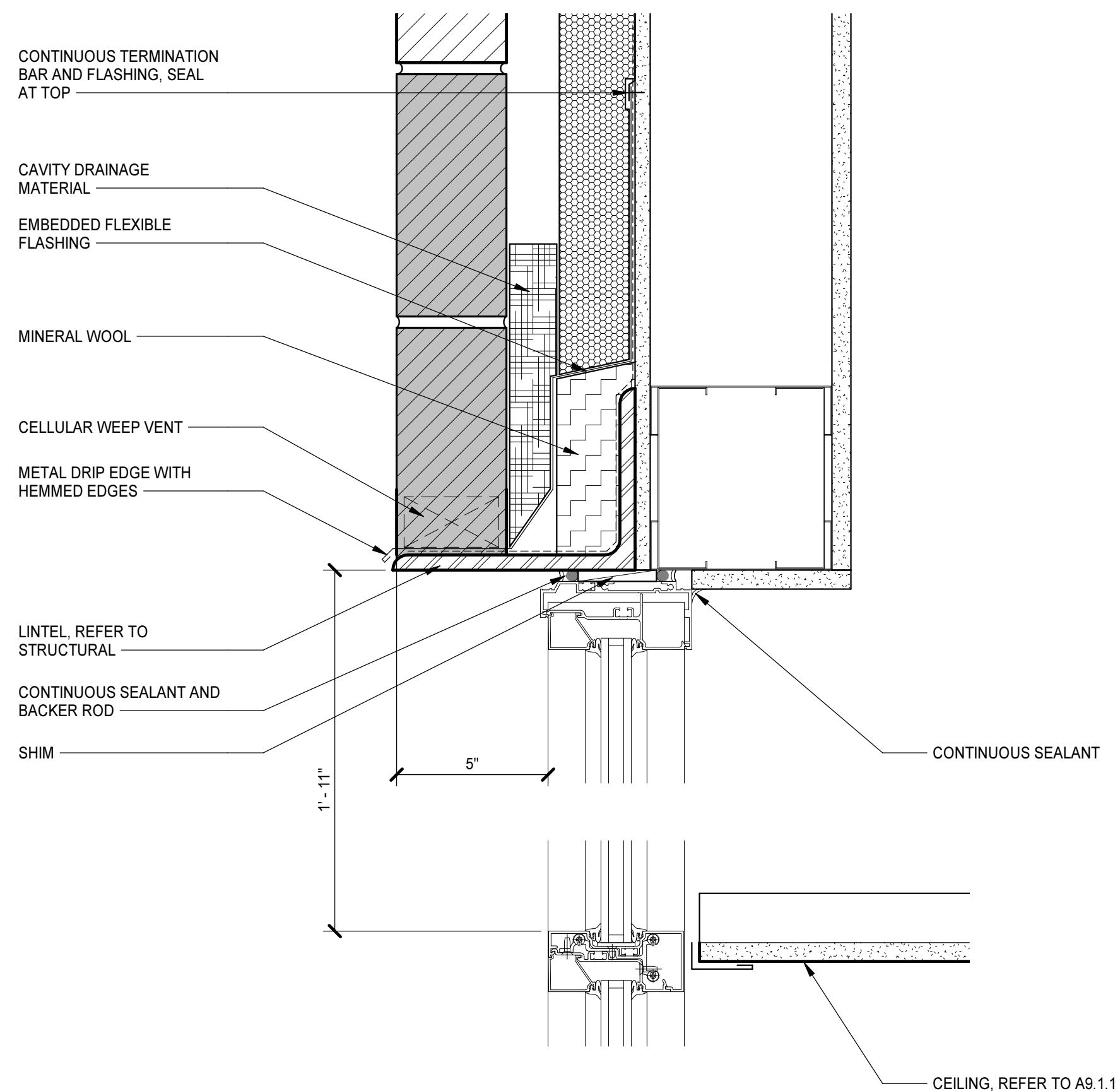


8 STOREFRONT JAMB DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"

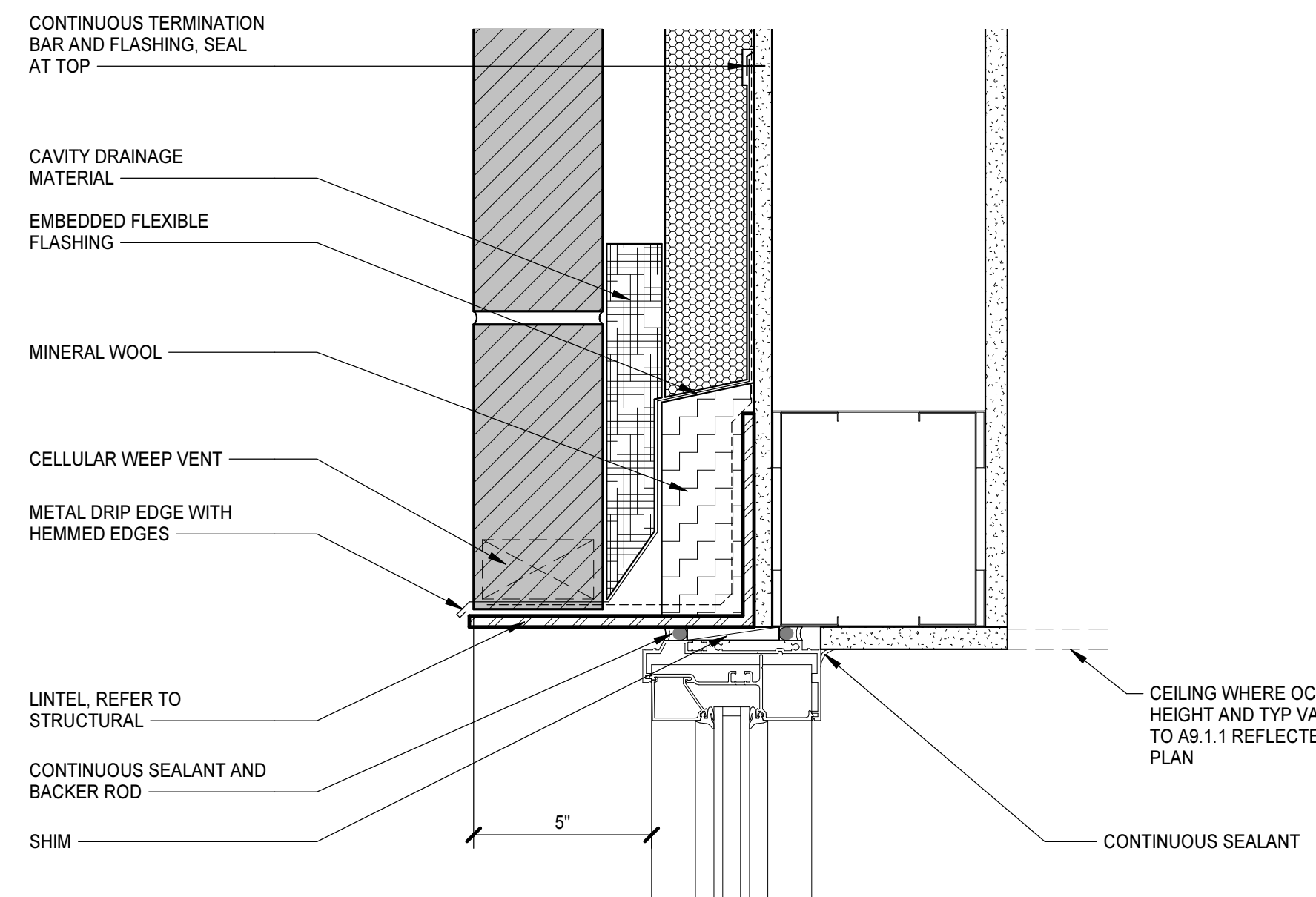
7 NOT USED



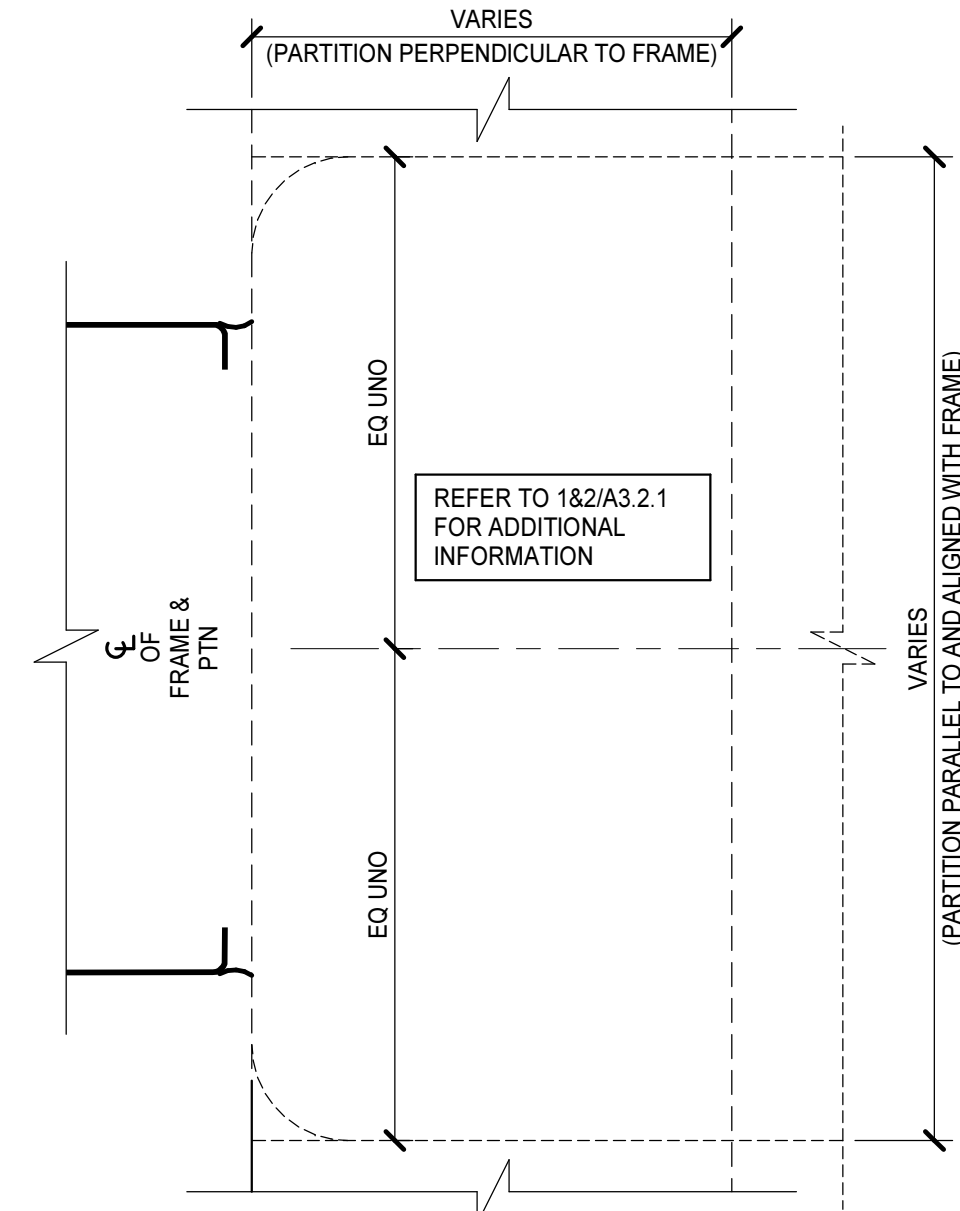
6 STOREFRONT HEAD DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"



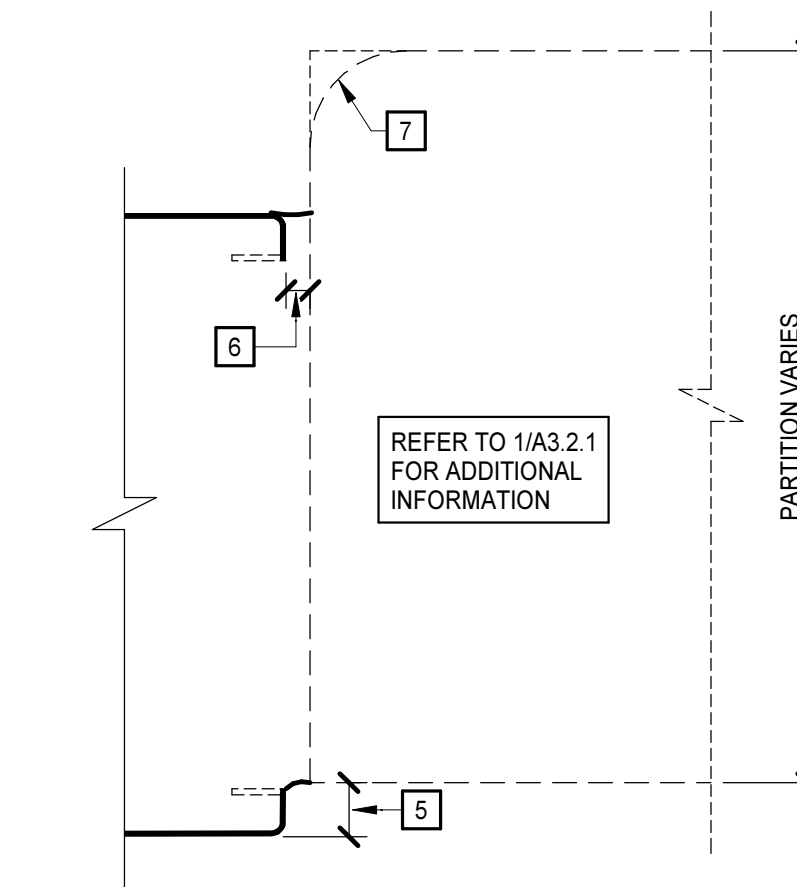
5 STOREFRONT HEAD DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"



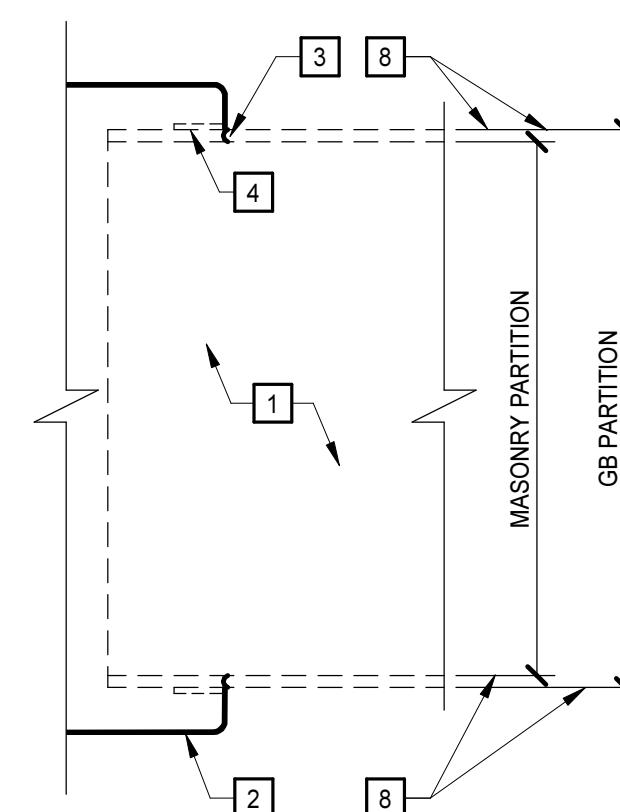
4 STOREFRONT HEAD DETAIL
A3.1.1 | A3.2.1 3" = 1'-0"



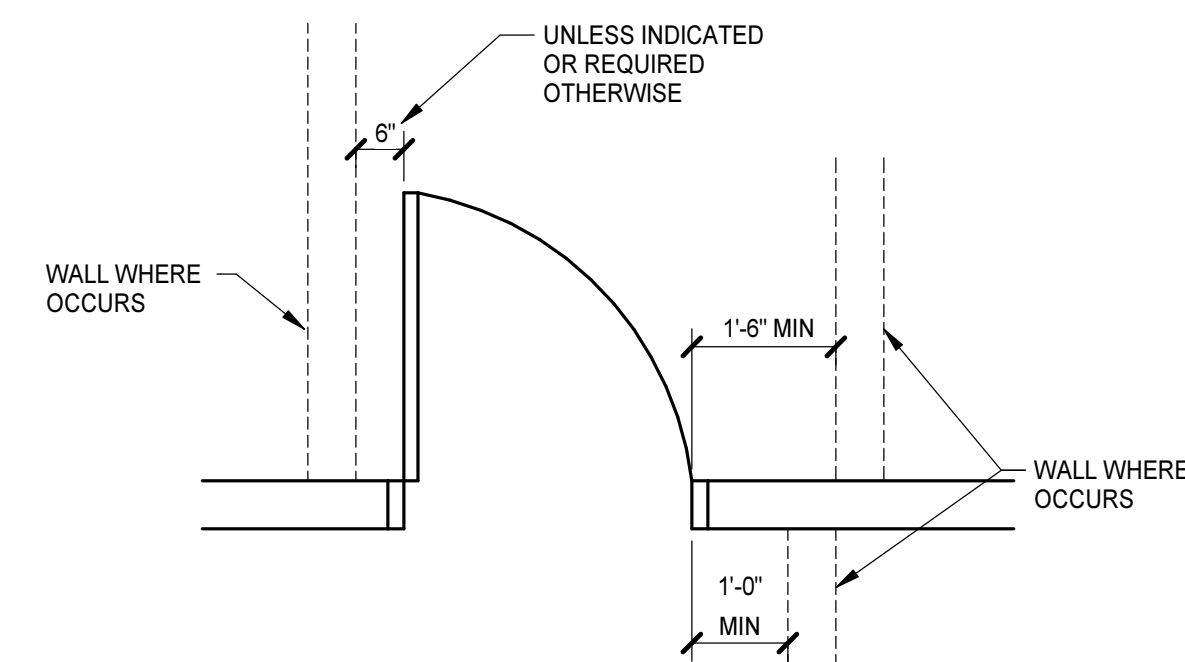
3 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL
A3.2.1 6" = 1'-0"



2 INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL
A3.2.1 6" = 1'-0"

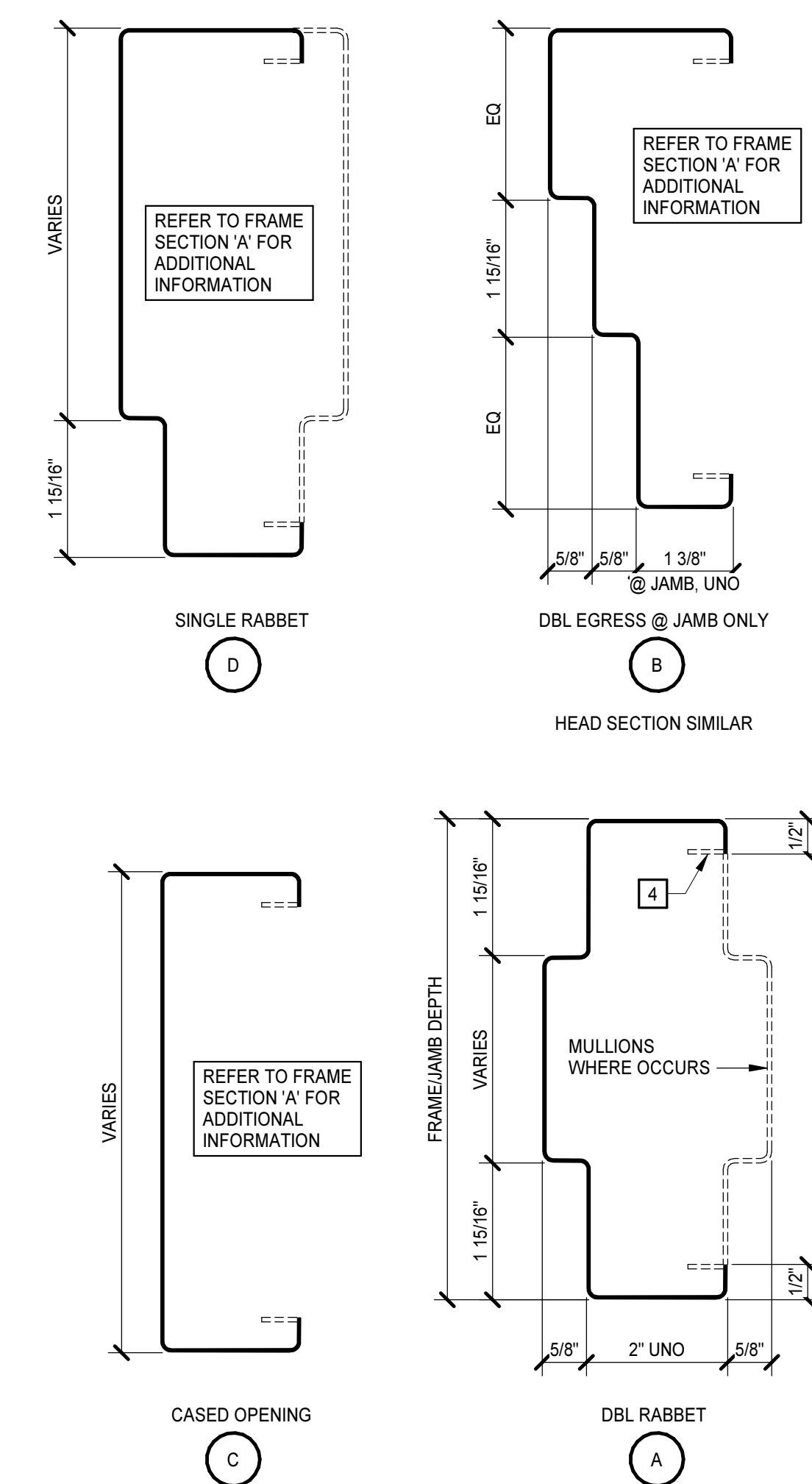


1 INTERIOR WRAP HEAD/JAMB/SILL
A3.2.1 6" = 1'-0"



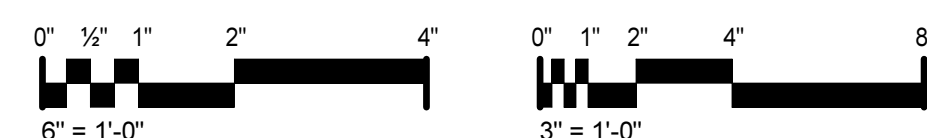
MANEUVERING CLEARANCE AT DOORS
NO SCALE

DOOR AND FRAME DETAIL KEYNOTES	
REPRESENTED BY n	
APPLIES TO DRAWINGS A3.2.n	
1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS, 1/2" @ GB.
6	1/4" @ JAMBS, UNO, DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.

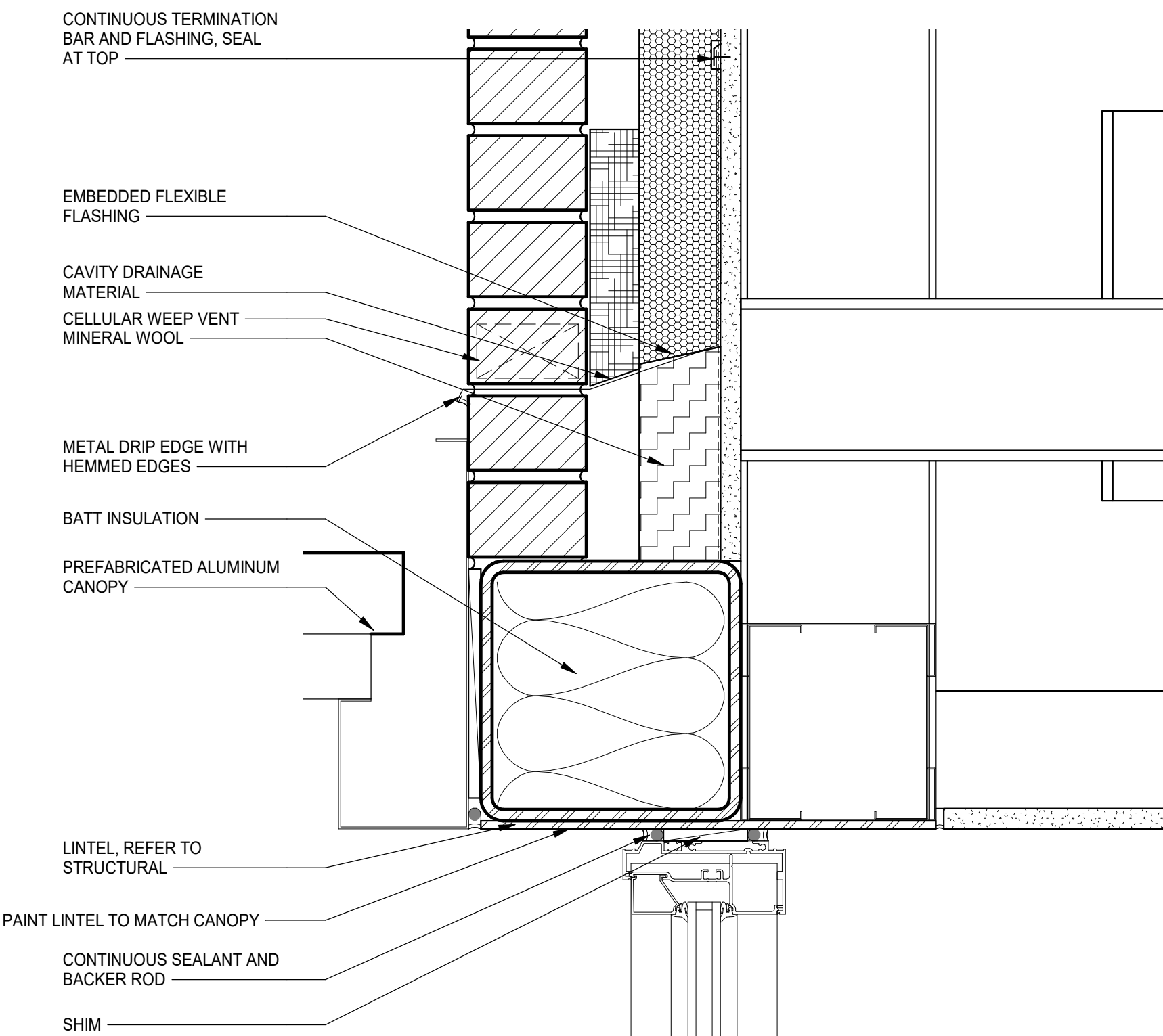


- ALL FRAME/JAMB DEPTHS, OTHER THAN WRAP CONDITIONS, SHALL BE 6", UNO.
- ALL FRAME/JAMB DEPTHS AT WRAP CONDITIONS SHALL BE SIZED TO SUIT PARTITION.
- DOORS, PANELS, GLAZING, STOPS, AND OTHER FRAME INFILLS ARE NOT SHOWN IN FRAME SECTIONS AS THEY VARY - PROVIDE SAME WHERE INDICATED.

STEEL FRAME SECTIONS
NO SCALE

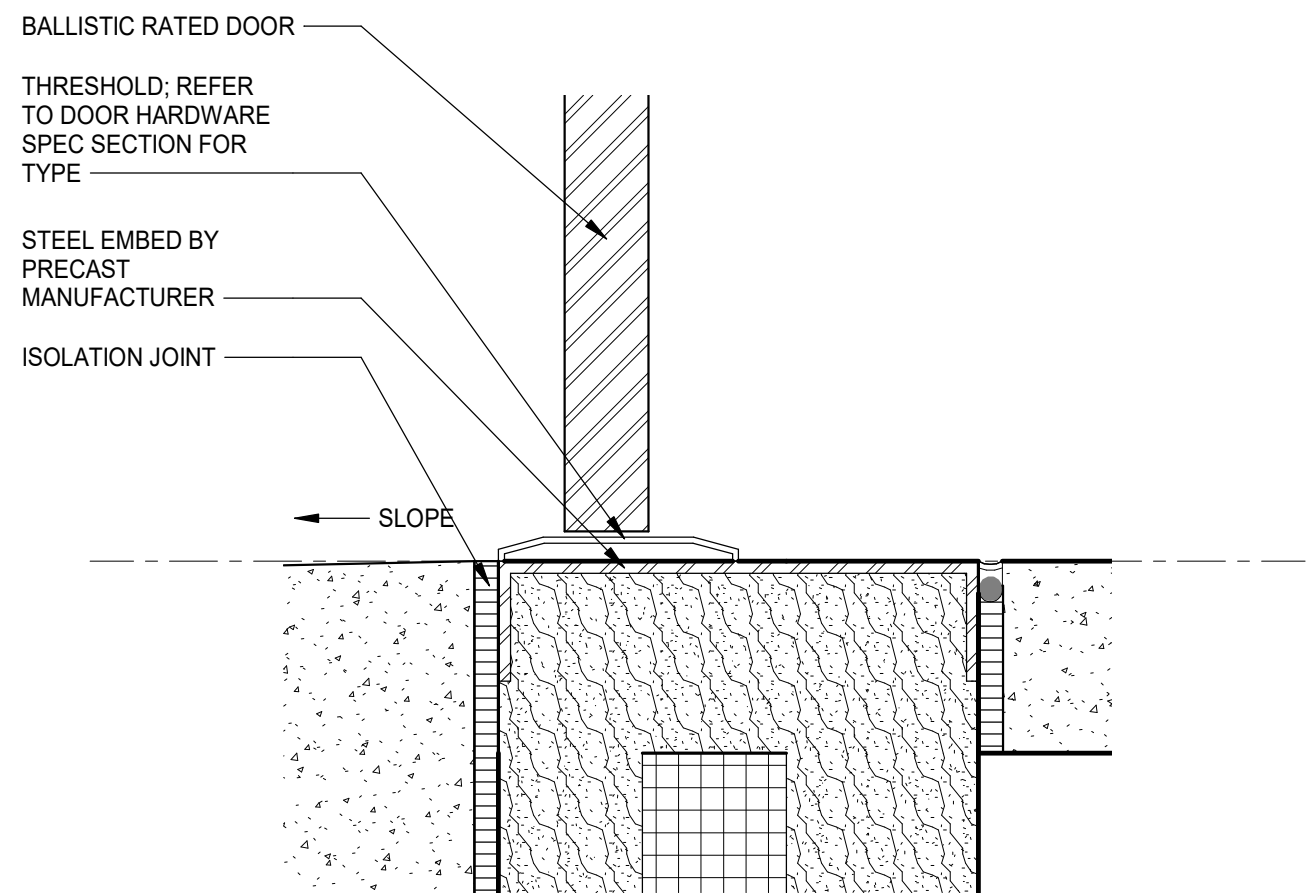


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DATE	DESCRIPTION



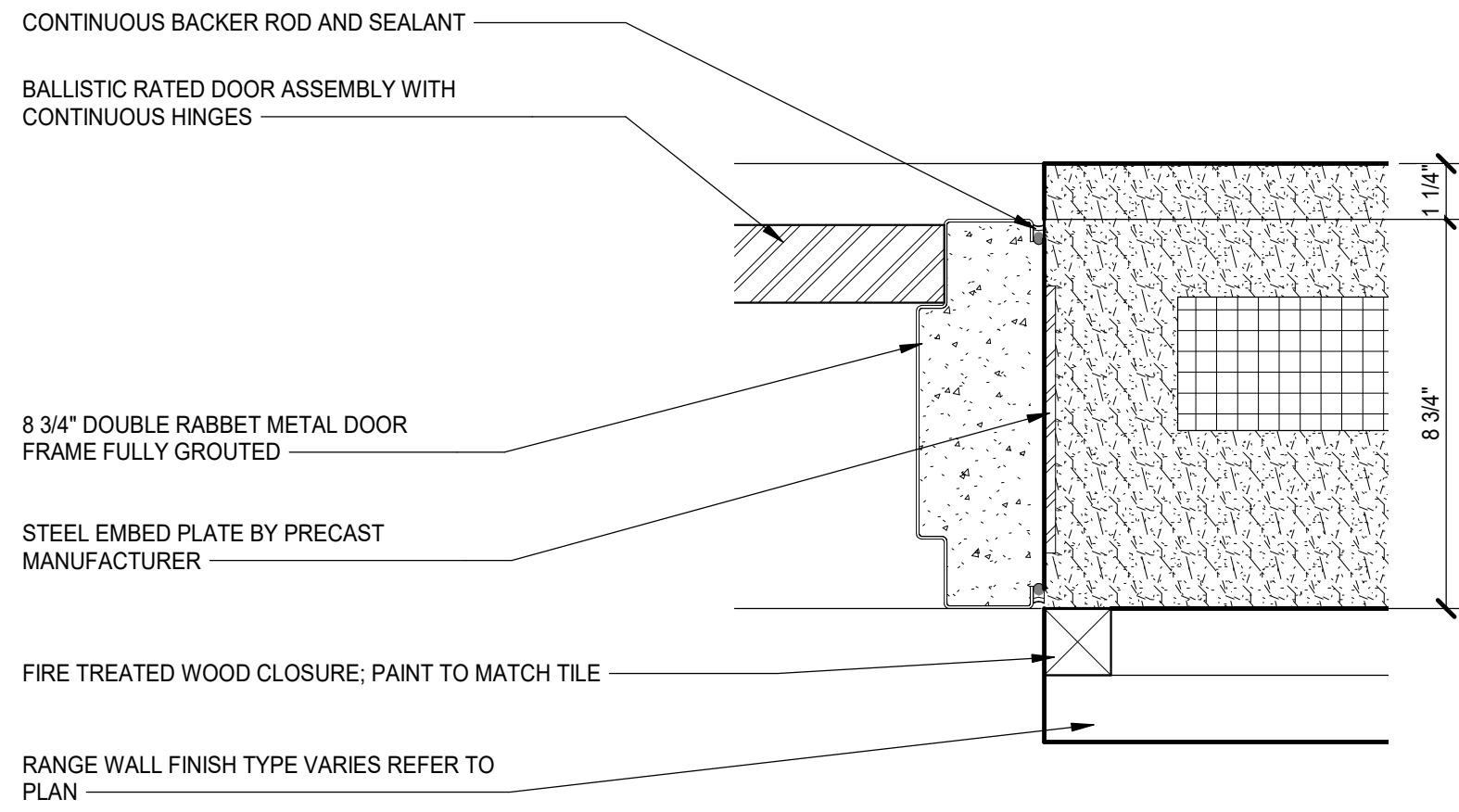
19 STOREFRONT HEAD DETAIL

A3.1.1 | A3.2.2 3" = 1'-0"



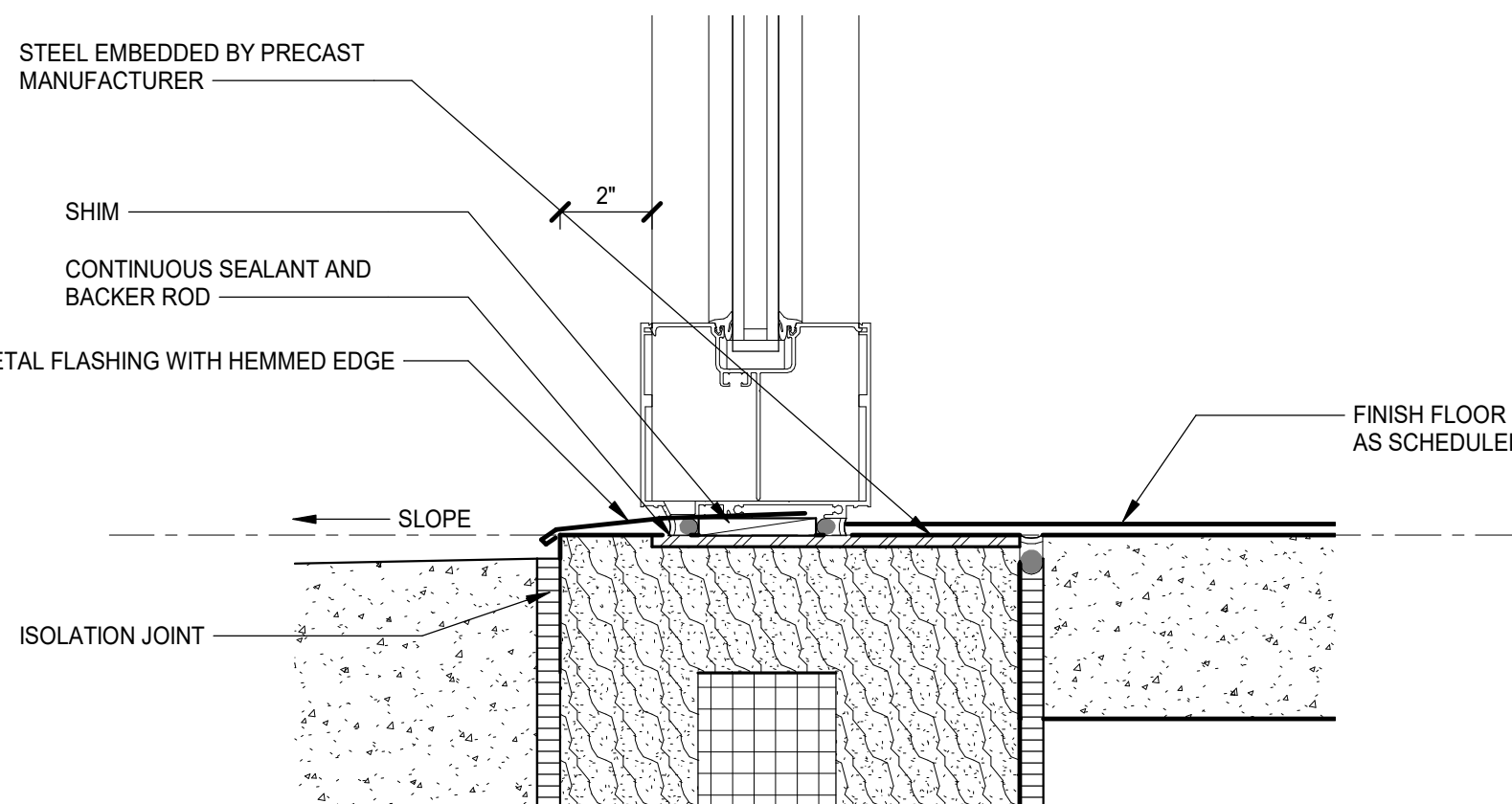
18 SILL DETAIL - BALLISTIC-RATED DOOR

A3.1.1 | A3.2.2 3" = 1'-0"



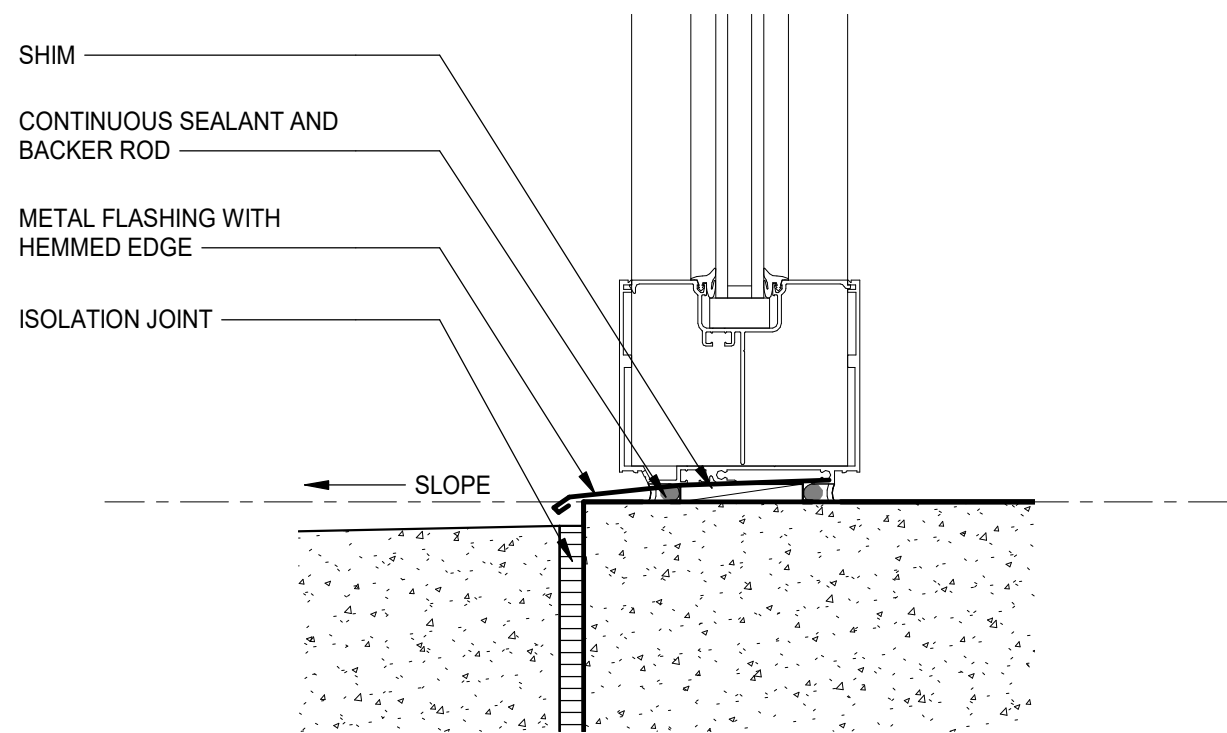
17 HEAD/JAMB DETAIL - BALLISTIC-RATED DOOR

A3.1.1 | A3.2.2 3" = 1'-0"



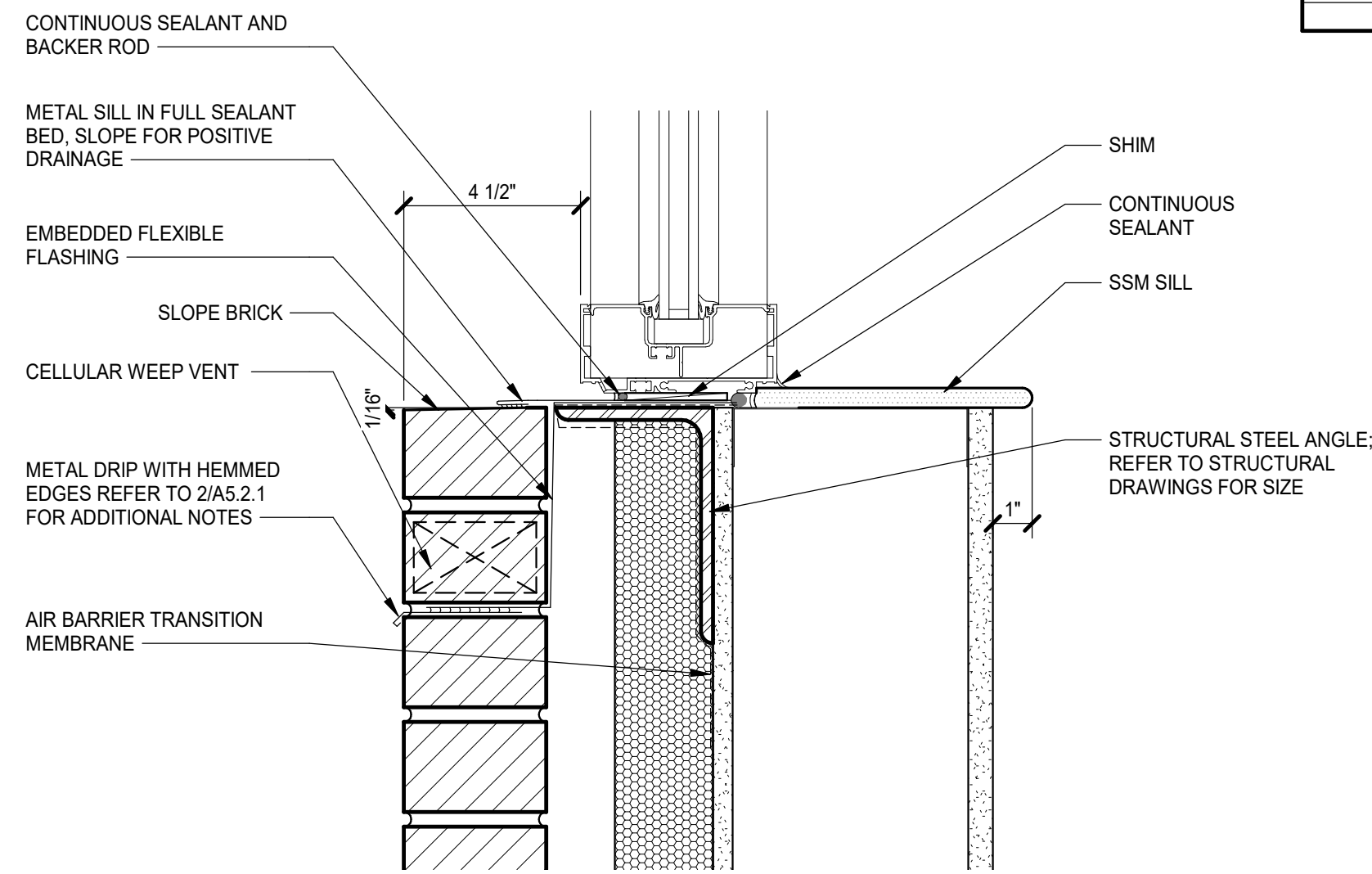
16 STOREFRONT SILL DETAIL

A3.1.1 | A3.2.2 3" = 1'-0"



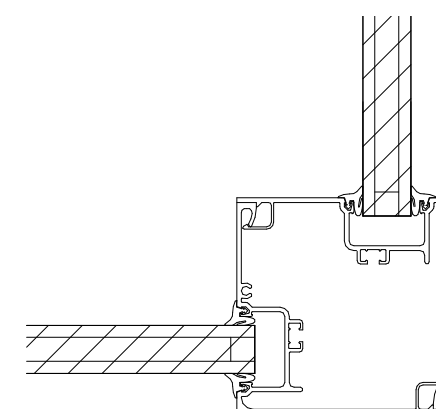
15 STOREFRONT SILL DETAIL

A3.1.1 | A3.2.2 3" = 1'-0"



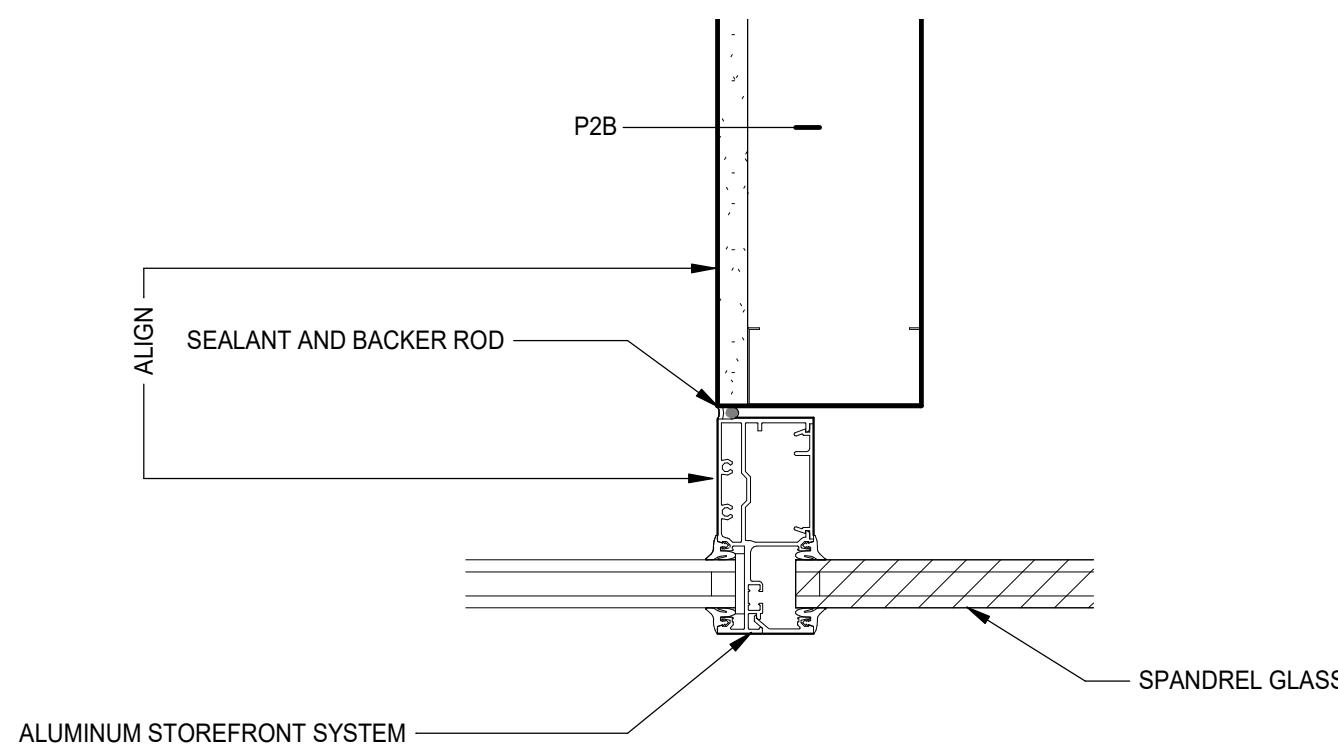
14 STOREFRONT SILL DETAIL

A3.1.1 | A3.2.2 3" = 1'-0"



13 STOREFRONT CORNER MULLION DETAIL

A3.1.1 | A3.2.2 3" = 1'-0"



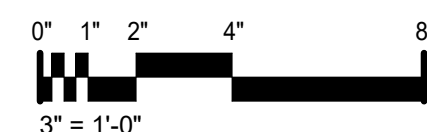
12 STOREFRONT INTERMEDIATE MULLION DETAIL

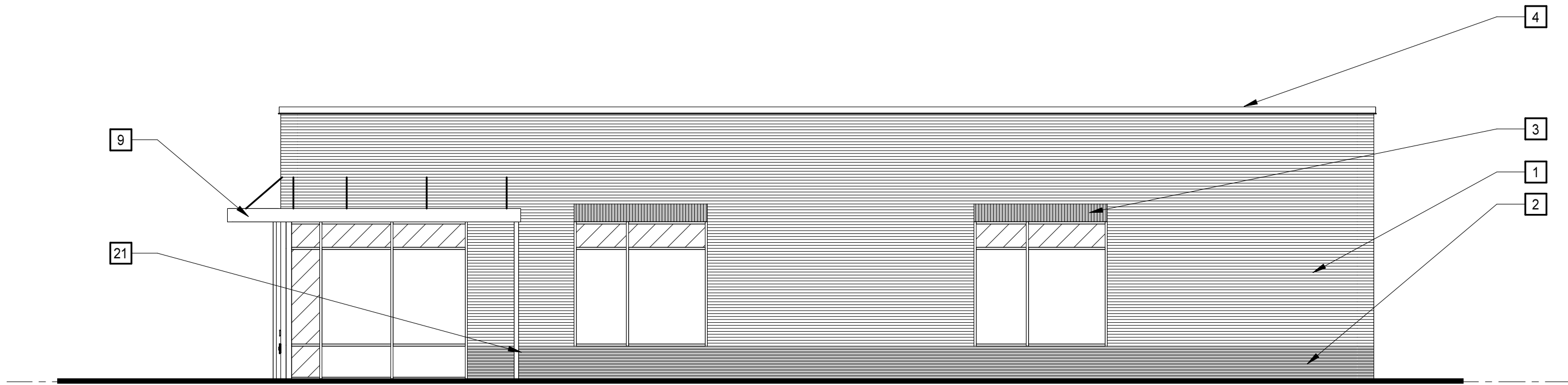
A3.1.1 | A3.2.2 3" = 1'-0"

DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY [n]
APPLIES TO DRAWINGS A3.2.n

1	ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
2	REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
3	SEALANT, ALL SIDES - TOOL TO 90°.
4	BACKBEND RETURN @ GB LOCATIONS ONLY.
5	9/16" @ MAS, 1/2" @ GB.
6	1/4" @ JAMBS, UNO, DIMENSION @ HEAD & SILL VARIES.
7	BULLNOSE @ CMU JAMBS & SILLS.
8	0" @ GB LOCATIONS; 1/16" @ MAS LOCATIONS.

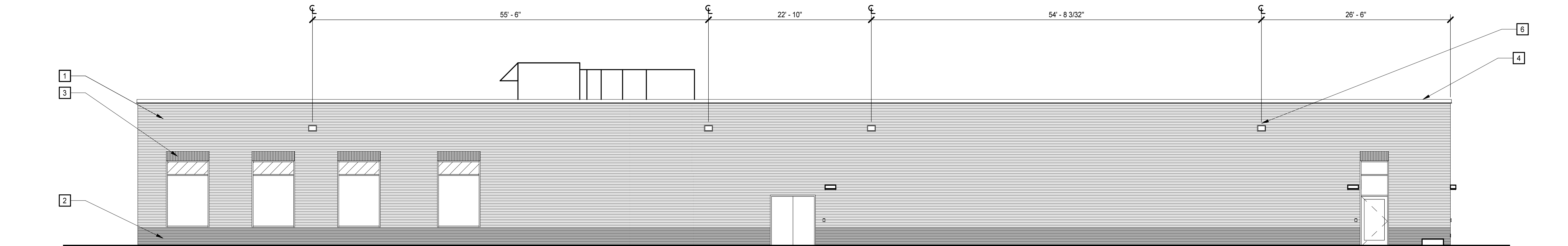




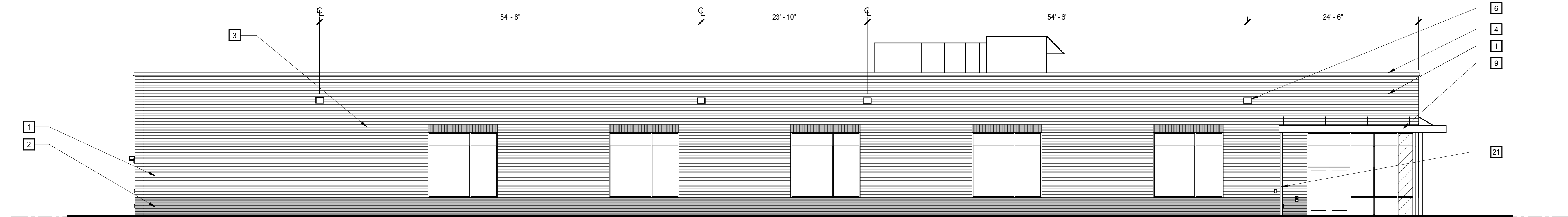
4 BUILDING ELEVATION - WEST
A2.1.1 | A4.1.1 1/8" = 1'-0"



3 BUILDING ELEVATION - EAST
A2.1.1 | A4.1.1 1/8" = 1'-0"



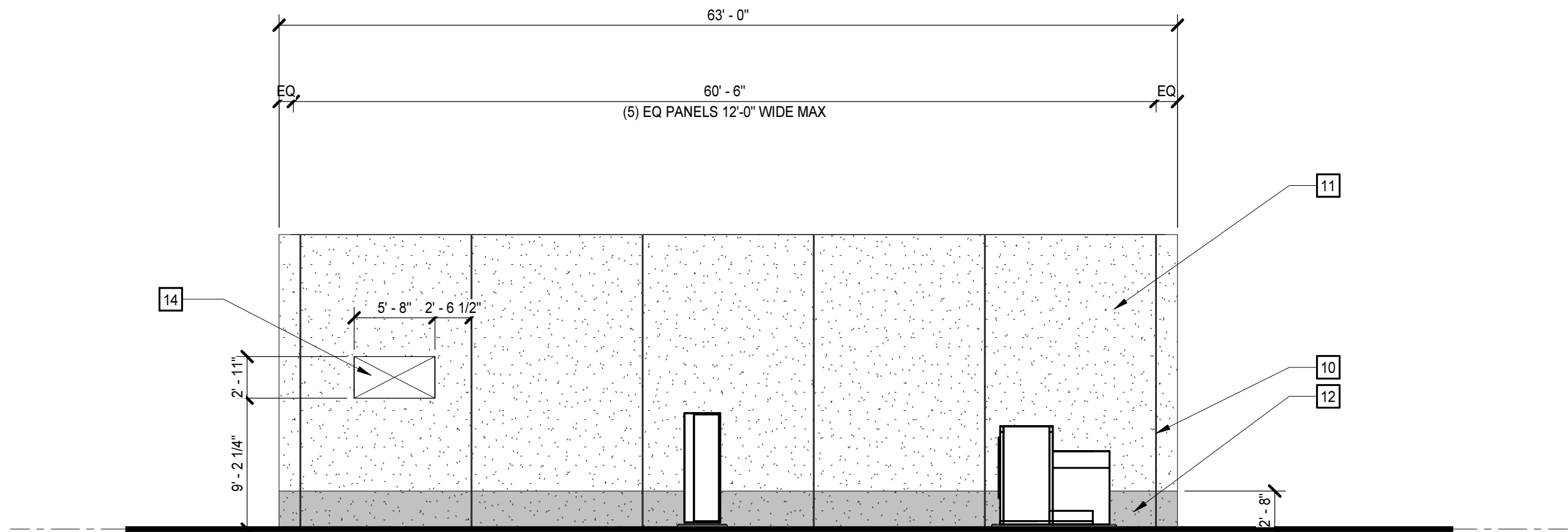
2 BUILDING ELEVATION - SOUTH
A2.1.1 | A4.1.1 1/8" = 1'-0"



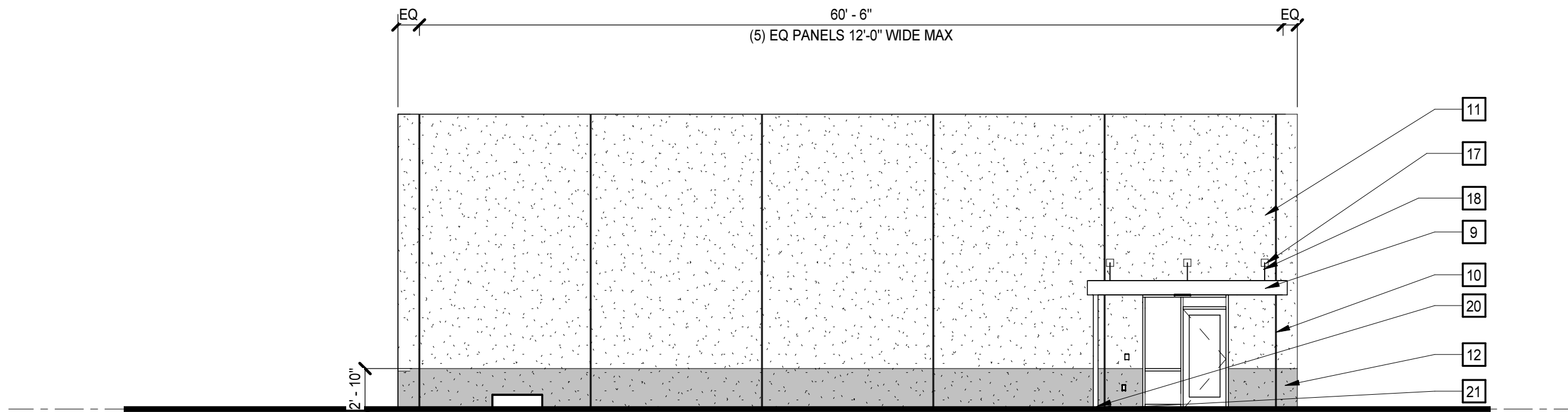
1 BUILDING ELEVATION - NORTH
A2.1.1 | A4.1.1 1/8" = 1'-0"

BUILDING ELEVATION KEYNOTES	
REPRESENTED BY [n]	
APPLIES TO DRAWINGS A4.1.n	
1	FACE BRICK, COLOR 1
2	FACE BRICK, COLOR 2
3	BRICK SOLDIER COURSES (2), COLOR 2
4	PRE-FINISHED ALUMINUM COPING
5	VERTICAL FIXED ROOF LOCKABLE ACCESS LADDER WITH CAGE
6	1'-0" WIDE 8' TALL SECONDARY SCUPPER
8	1'-0" WIDE x 6' HIGH ROOF SCUPPER, COORDINATE OPENING IN PRECAST CONCRETE PANEL WITH FINAL ROOF DESIGN
9	PRE-FABRICATED ALUMINUM CANOPY
10	PRECAST PANEL JOINT
11	PAINT, COLOR 1
12	PAINT, COLOR 2
13	1'-0" WIDE 6' HIGH SECONDARY SCUPPER
14	WALL OPENING; COORDINATE SIZE AND LOCATION WITH FINAL MECHANICAL DESIGN
15	3"x4" METAL DOWNSPOUT
16	METAL COLLECTOR
17	PROVIDE EMBEDS IN PRECAST PANEL FOR CANOPY ATTACHMENT. COORDINATE LOCATION WITH FINAL CANOPY DESIGN
18	PRE-FABRICATED ALUMINUM CANOPY SUPPORTS
19	PROVIDE EMBEDS IN PRECAST PANEL FOR LADDER ATTACHMENT. COORDINATE LOCATION WITH LADDER MANUFACTURER
20	<varies>
21	<varies>

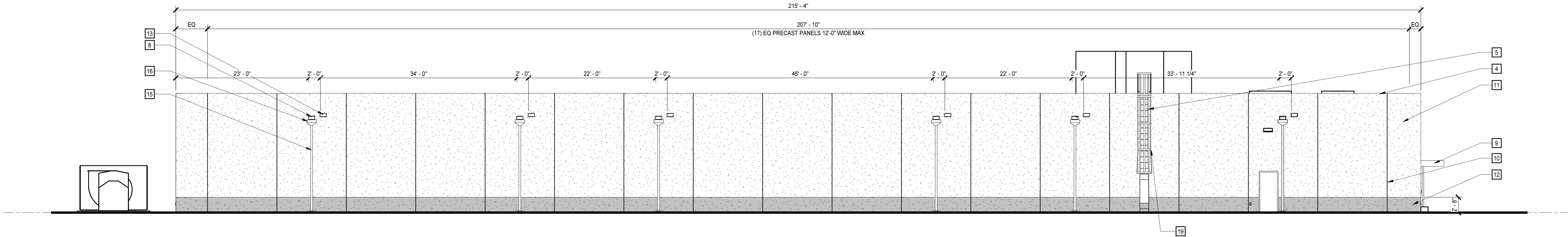
J
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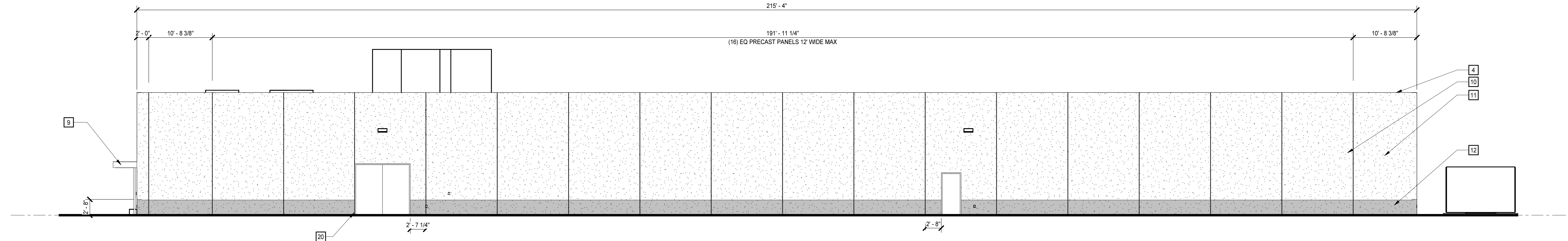
4 BUILDING ELEVATION - WEST
A2.1.2 A4.1.2 1/8" = 1'-0"



3 BUILDING ELEVATION - EAST
A2.1.2 A4.1.2 1/8" = 1'-0"



2 BUILDING ELEVATION - SOUTH
A2.1.2 A4.1.2 1/8" = 1'-0"



1 BUILDING ELEVATION - NORTH
A2.1.2 A4.1.2 1/8" = 1'-0"

BUILDING ELEVATION KEYNOTES	
REPRESENTED BY [n]	
APPLIES TO DRAWINGS A4.1.n	
1	FACE BRICK, COLOR 1
2	FACE BRICK, COLOR 2
3	BRICK SOLDIER COURSES (2), COLOR 2
4	PRE-FINISHED ALUMINUM COPING
5	VERTICAL FIXED ROOF LOCKABLE ACCESS LADDER WITH CAGE
6	1'-0" WIDE 8" TALL SECONDARY SCUPPER
8	1'-0" WIDE X 6" HIGH ROOF SCUPPER, COORDINATE OPENING IN PRECAST CONCRETE PANEL WITH FINAL ROOF DESIGN
9	PRE-FABRICATED ALUMINUM CANOPY
10	PRECAST PANEL JOINT
11	PAINT, COLOR 1
12	PAINT, COLOR 2
13	1'-0" WIDE 6" HIGH SECONDARY SCUPPER
14	WALL OPENING; COORDINATE SIZE AND LOCATION WITH FINAL MECHANICAL DESIGN
15	3"x4" METAL DOWNSPOUT
16	METAL COLLECTOR
17	PROVIDE EMBEDS IN PRECAST PANEL FOR CANOPY ATTACHMENT. COORDINATE LOCATION WITH FINAL CANOPY DESIGN
18	PRE-FABRICATED ALUMINUM CANOPY SUPPORTS
19	PROVIDE EMBEDS IN PRECAST PANEL FOR LADDER ATTACHMENT. COORDINATE LOCATION WITH LADDER MANUFACTURER
20	<varies>
21	<varies>

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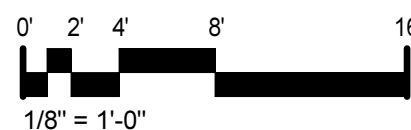
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SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO.	600646
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ALTERNATE NO. 1 -
INDOOR FIRING RANGE
ELEVATIONS

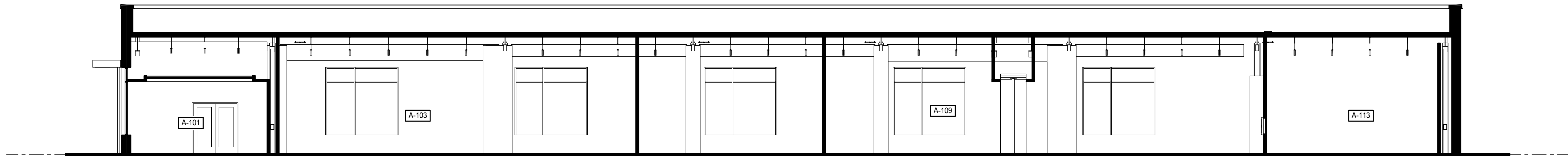
A4.1.2



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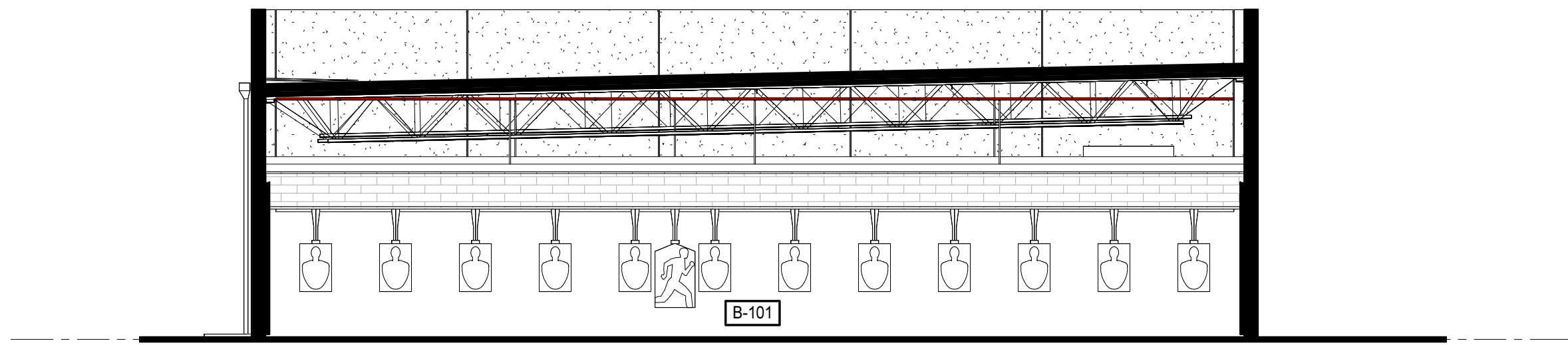
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A2.1.1 | A5.0.1
1/8" = 1'-0"

CLASSROOM-ADMINISTRATION BUILDING - BUILDING SECTION



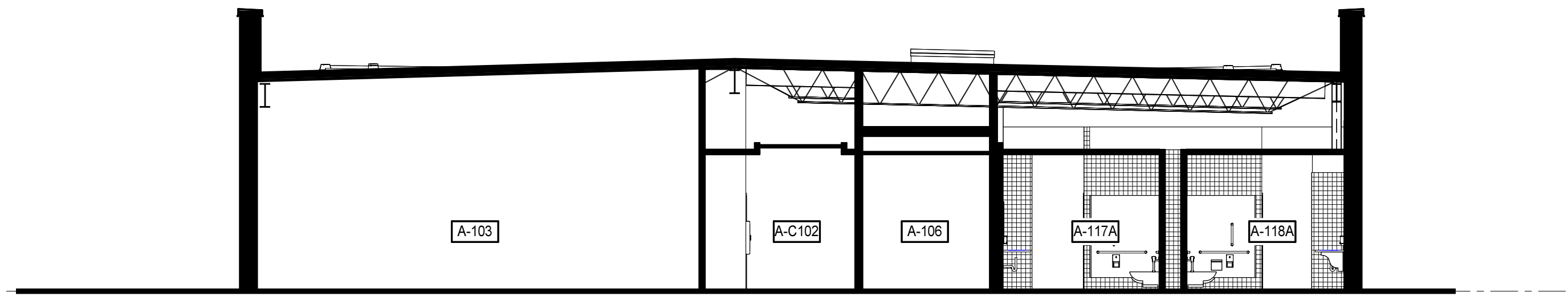
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A2.1.2 | A5.0.1
1/8" = 1'-0"

INDOOR FIRING RANGE - BUILDING SECTION



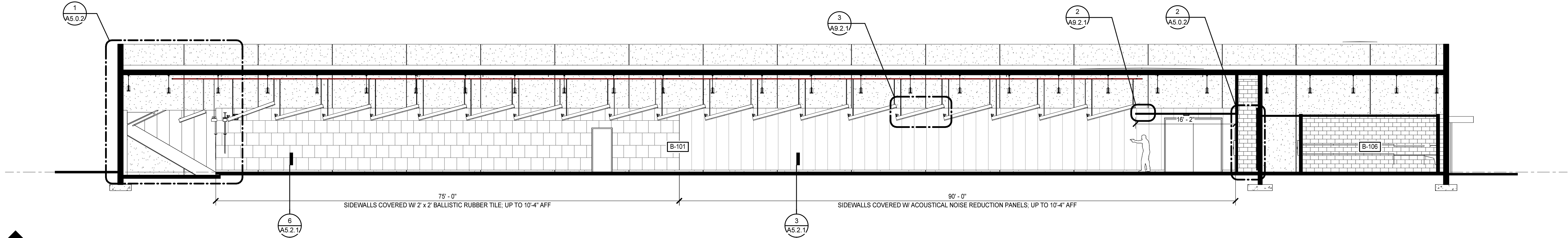
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A2.1.1 | A5.0.1
1/8" = 1'-0"

CLASSROOM-ADMINISTRATION BUILDING - BUILDING SECTION



4
A2.1.2 | A5.0.1
1/8" = 1'-0"

INDOOR FIRING RANGE - BUILDING SECTION



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BUILDING SECTIONS

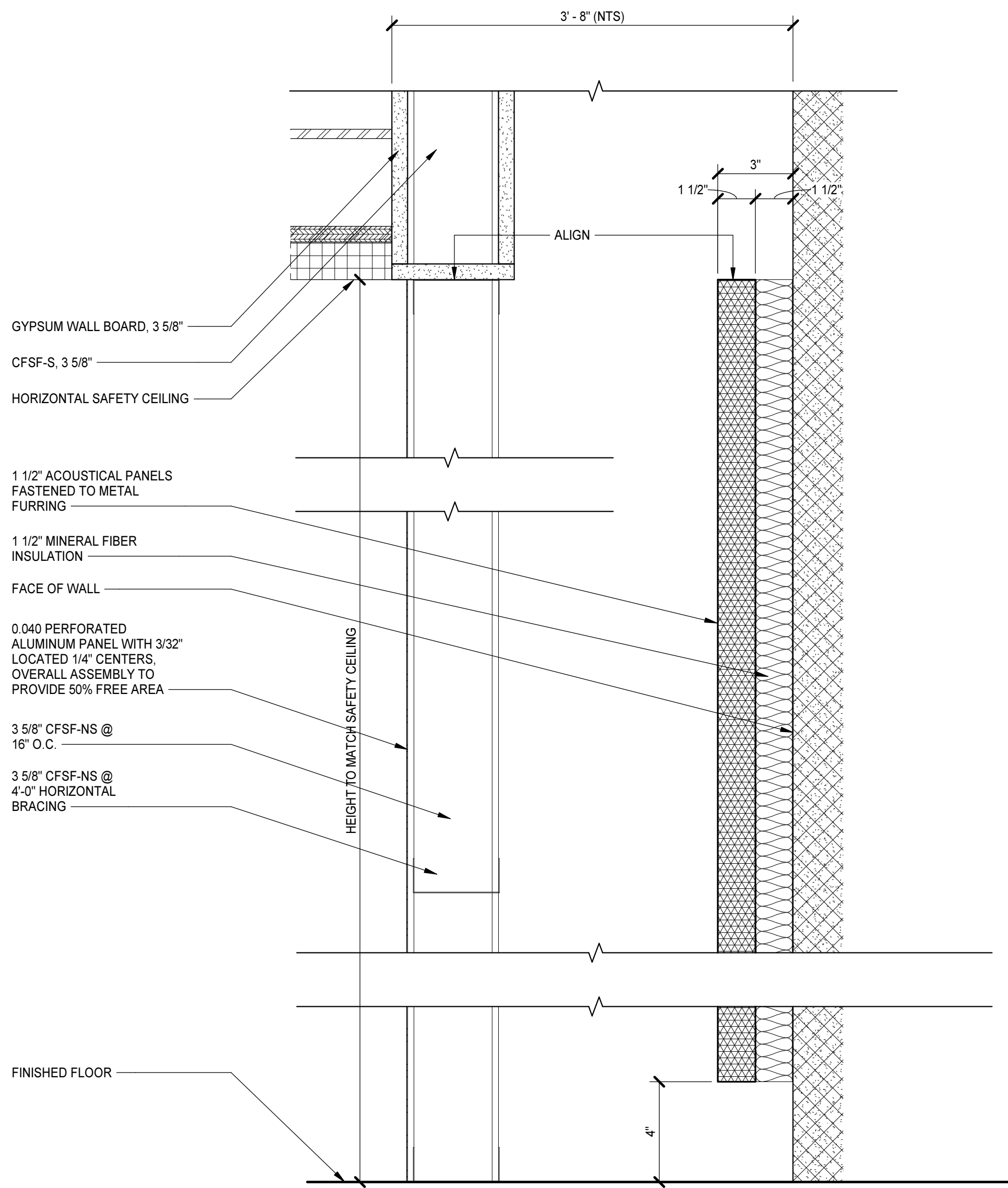
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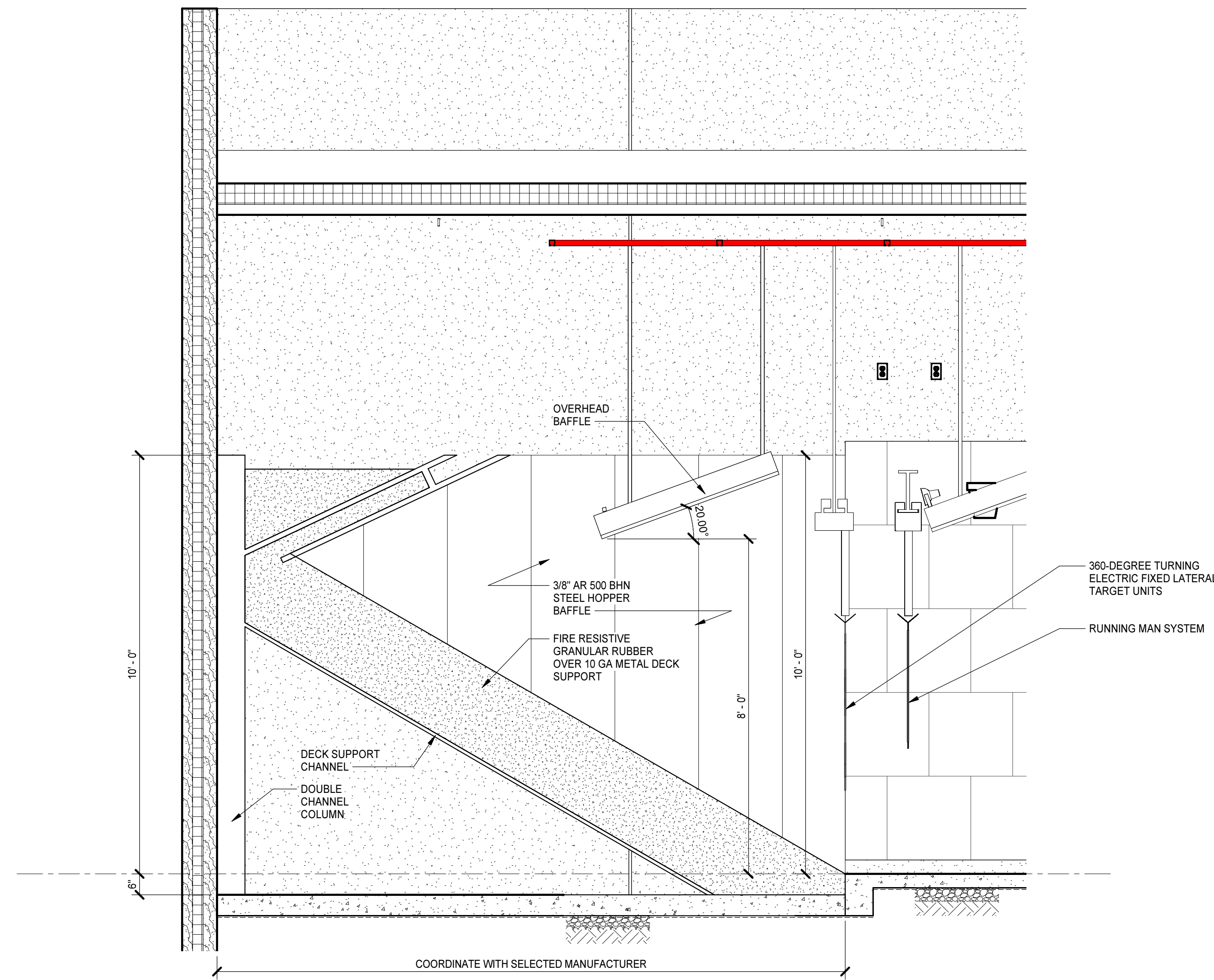
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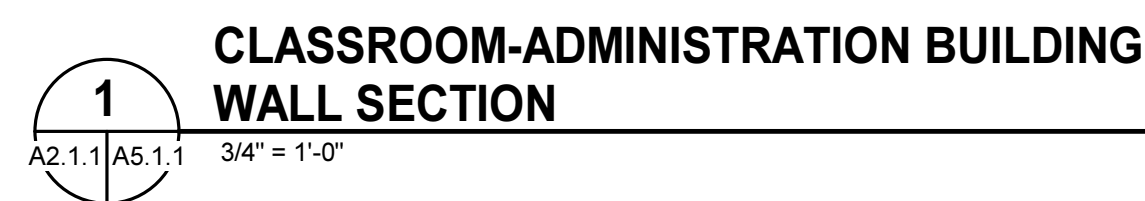
A5.0.1



2 PERFORATED METAL WALL
A5.0.1 | A5.0.2 3" = 1'-0"

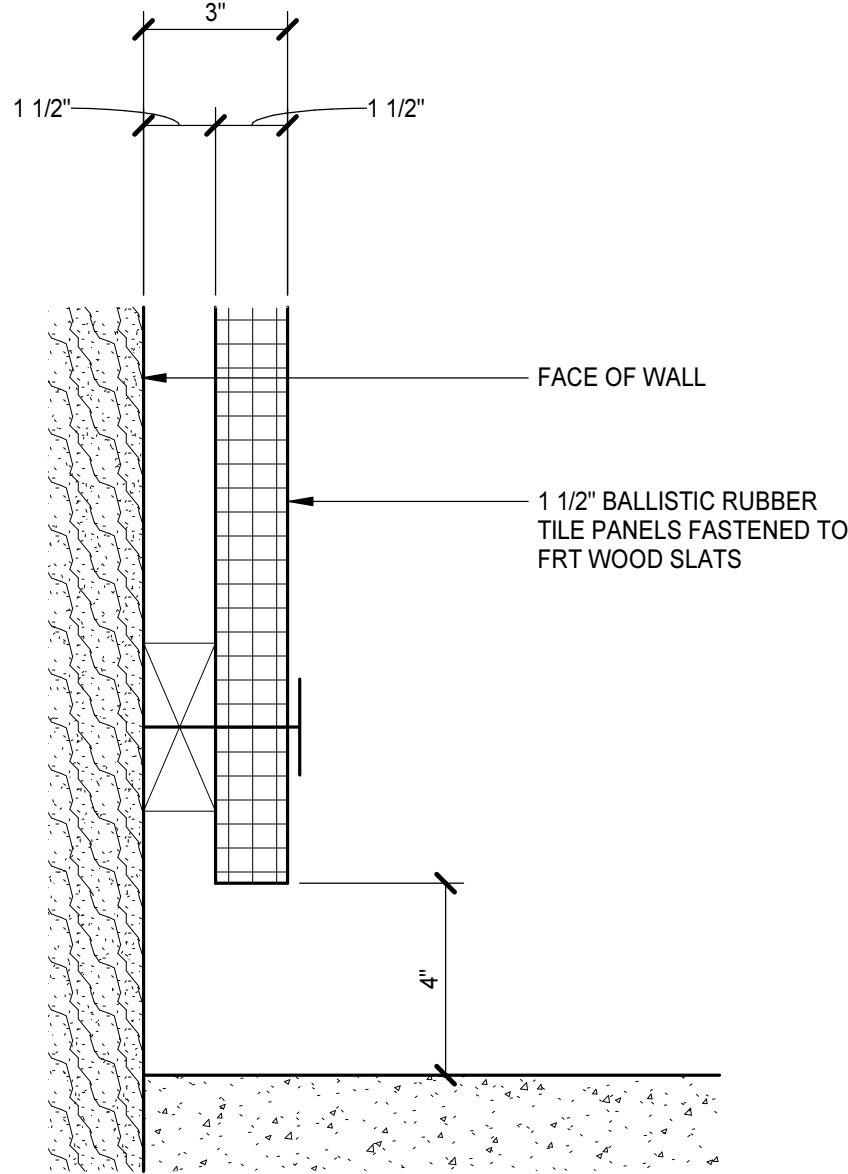


1 FIRE-RESISTIVE GRANULAR BULLET TRAP
A5.0.1 | A5.0.2 1/2" = 1'-0"

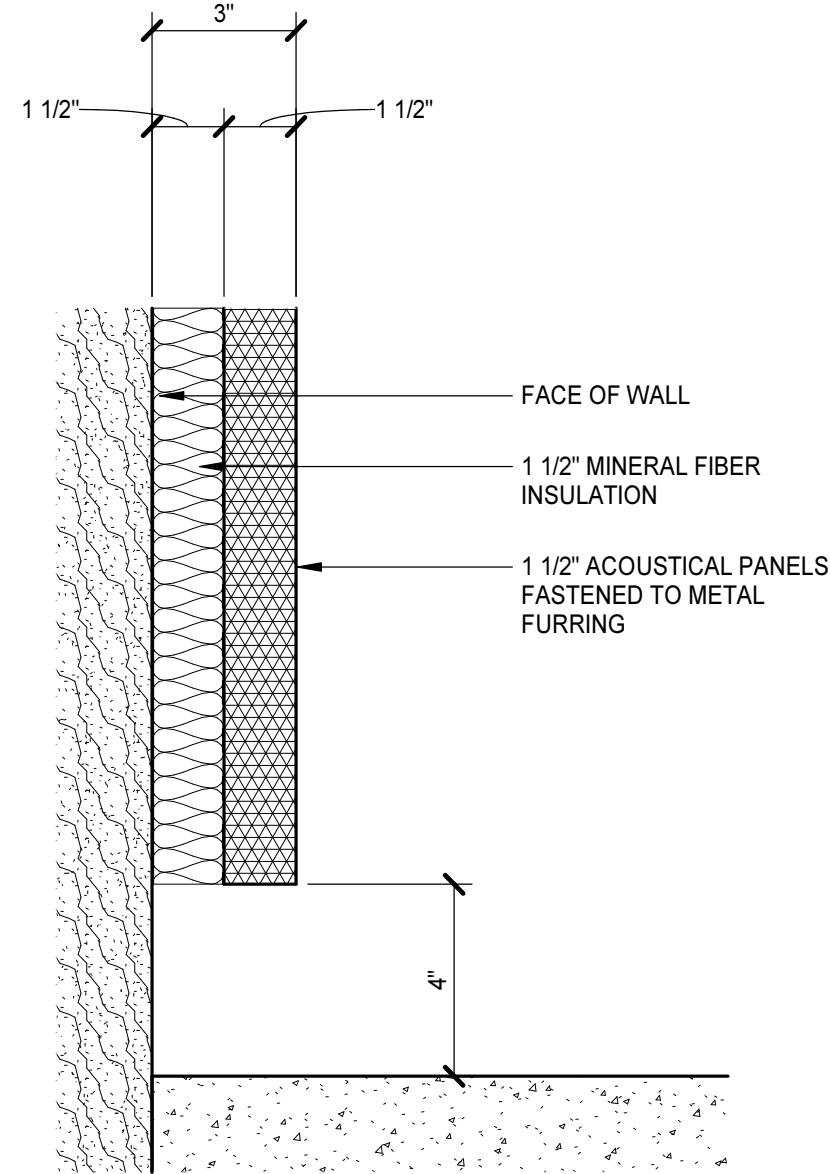


0' 6' 1' 18' 2' 30'

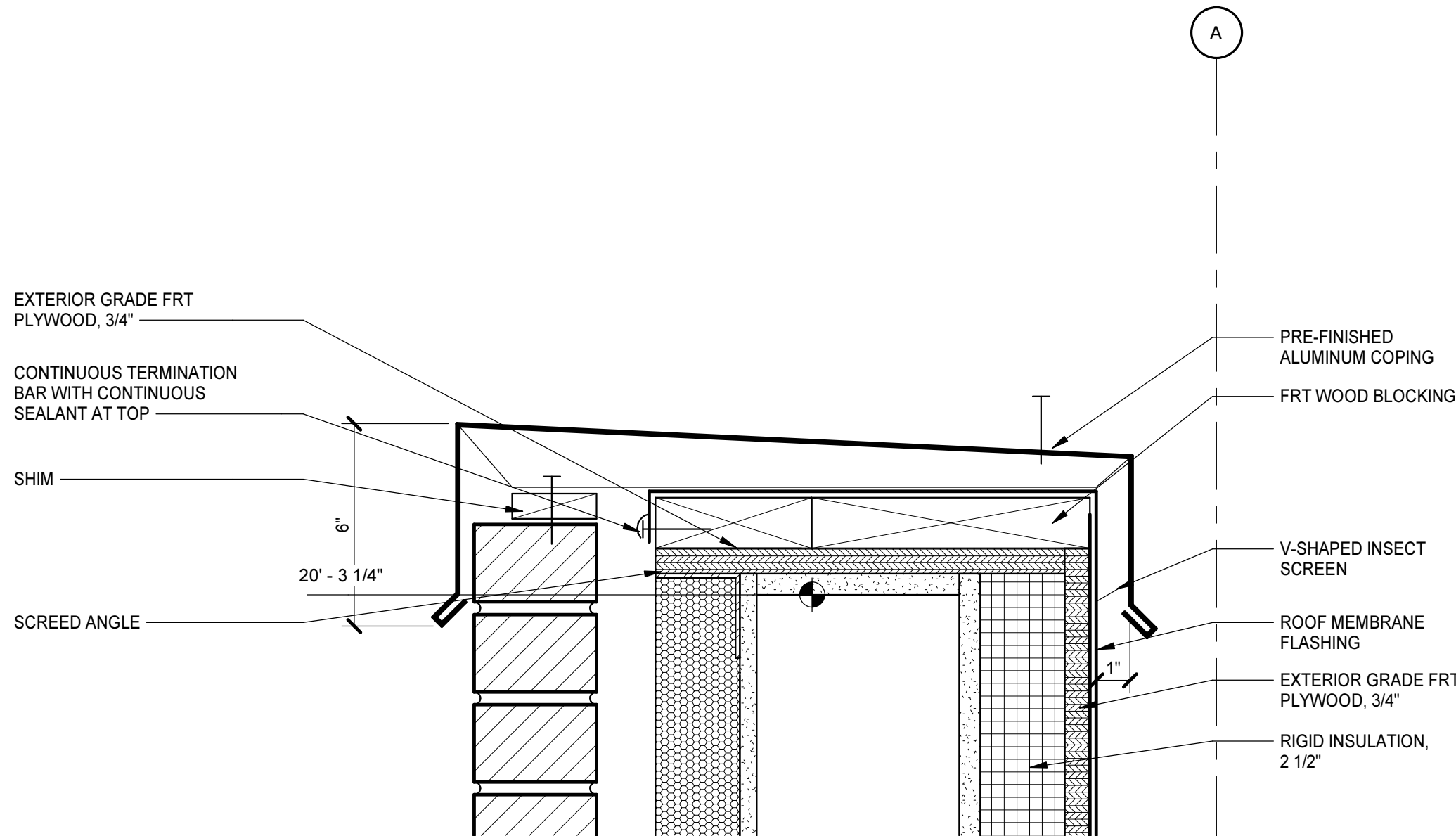
$\frac{3}{4}" = 1'-0"$



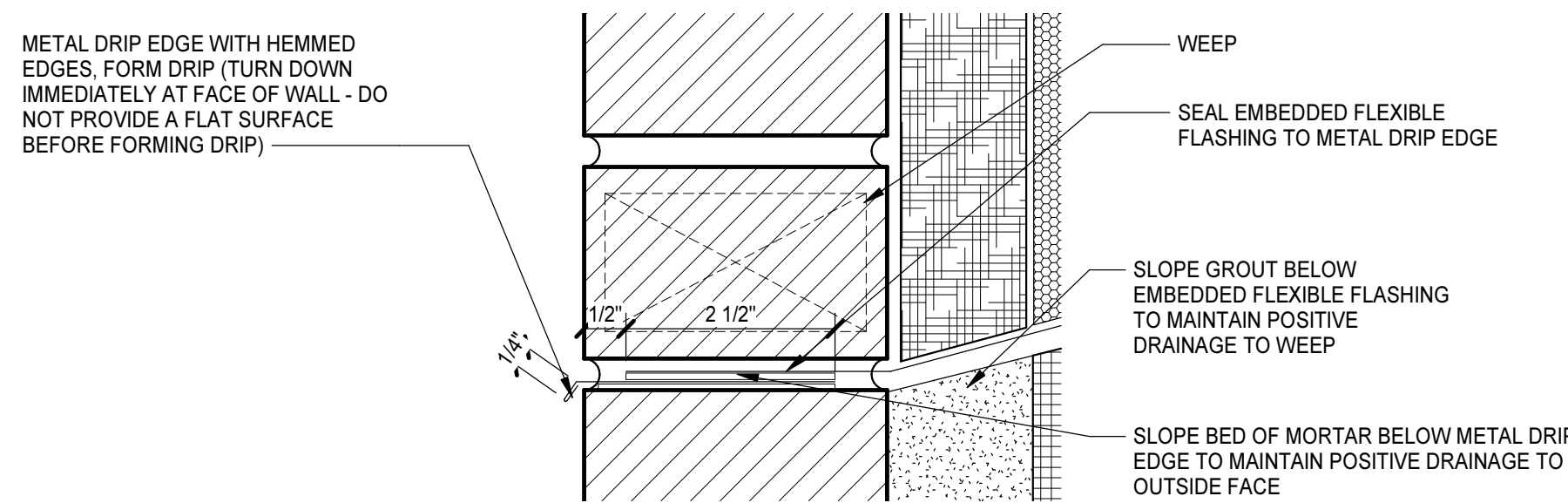
6 SECTION DETAIL
A5.0.1 | A5.2.1 3" = 1'-0"



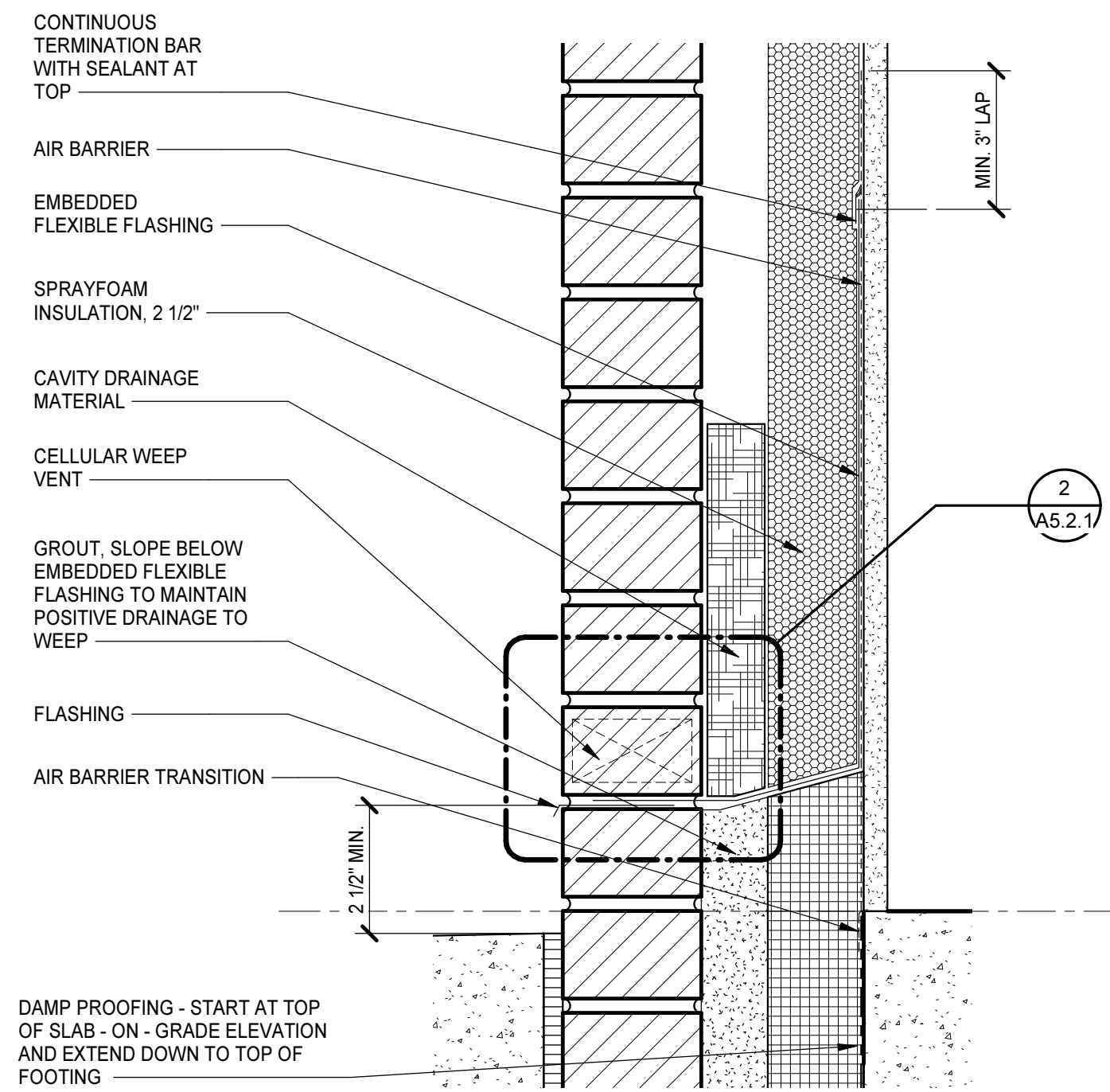
3 SECTION DETAIL
A5.0.1 | A5.2.1 3" = 1'-0"



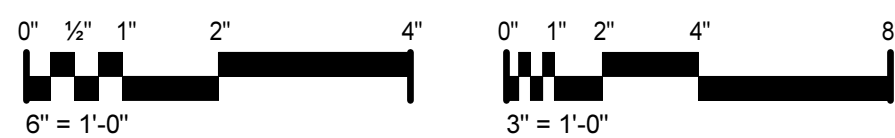
5 SECTION DETAIL
A5.1.1 | A5.2.1 3" = 1'-0"



2 SECTION DETAIL
A5.2.1 | A5.2.1 6" = 1'-0"



1 SECTION DETAIL
A5.1.1 | A5.2.1 3" = 1'-0"



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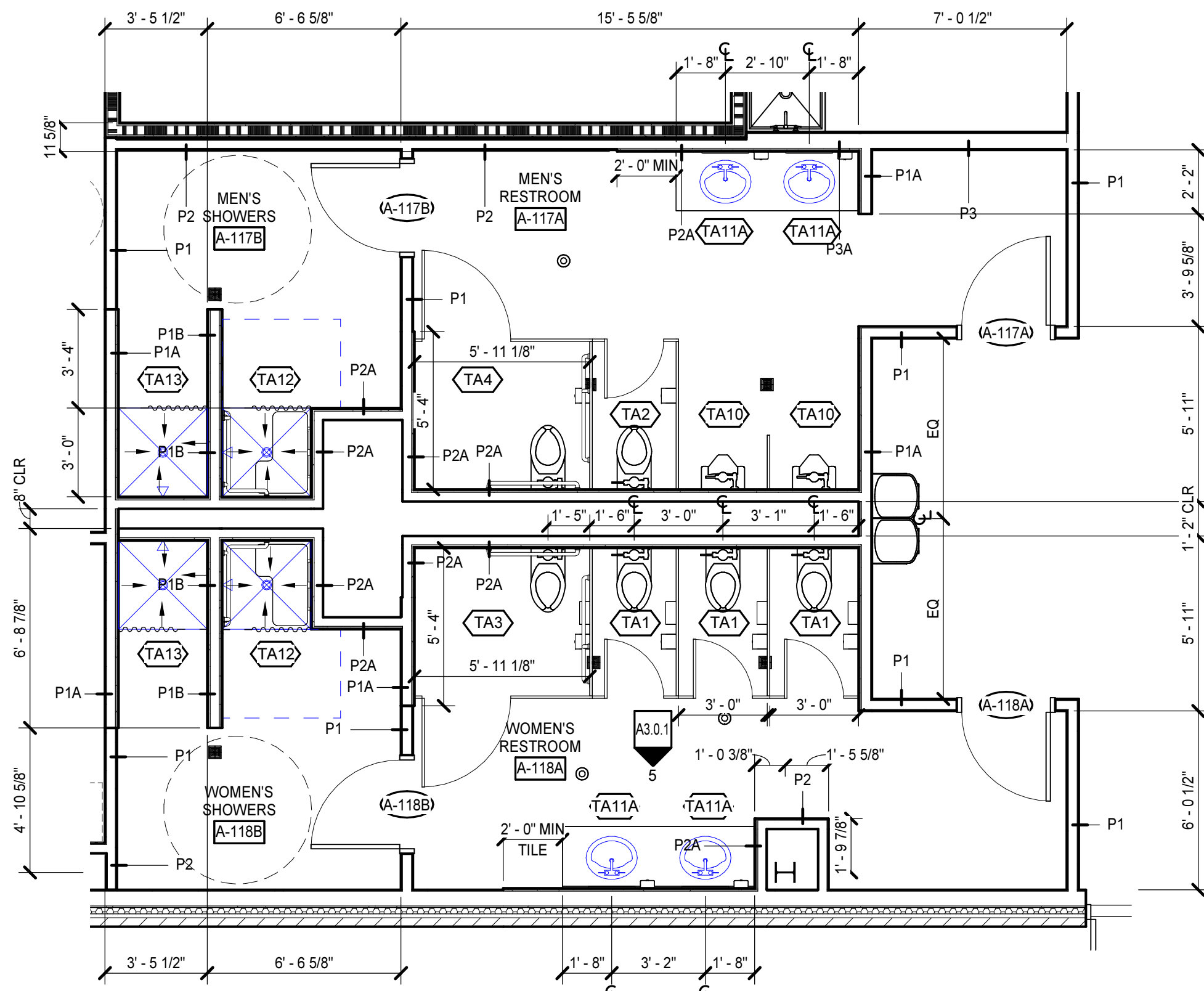
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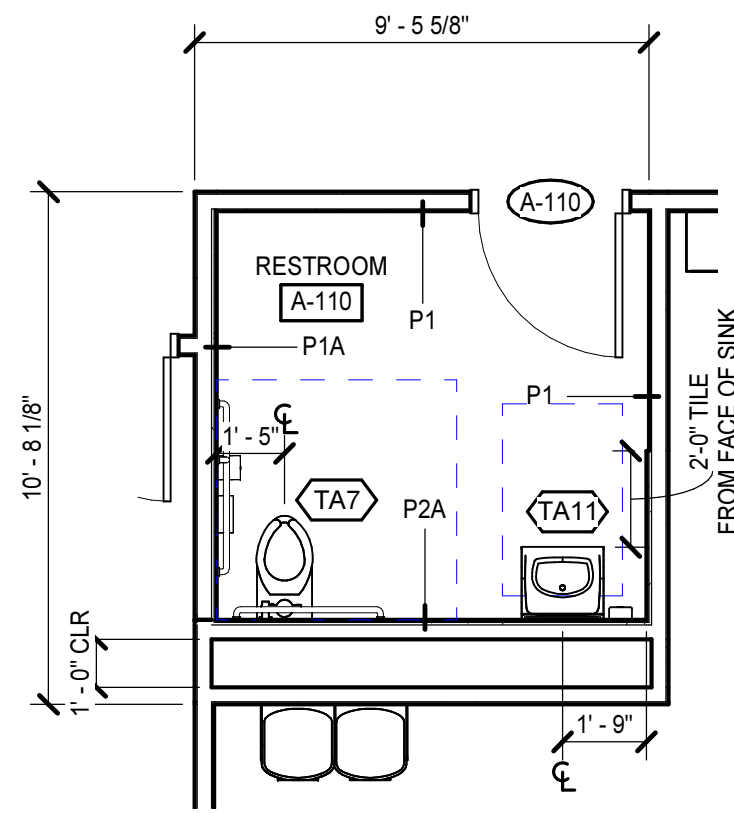
TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE, DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. "APPLIED FINISHES" IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

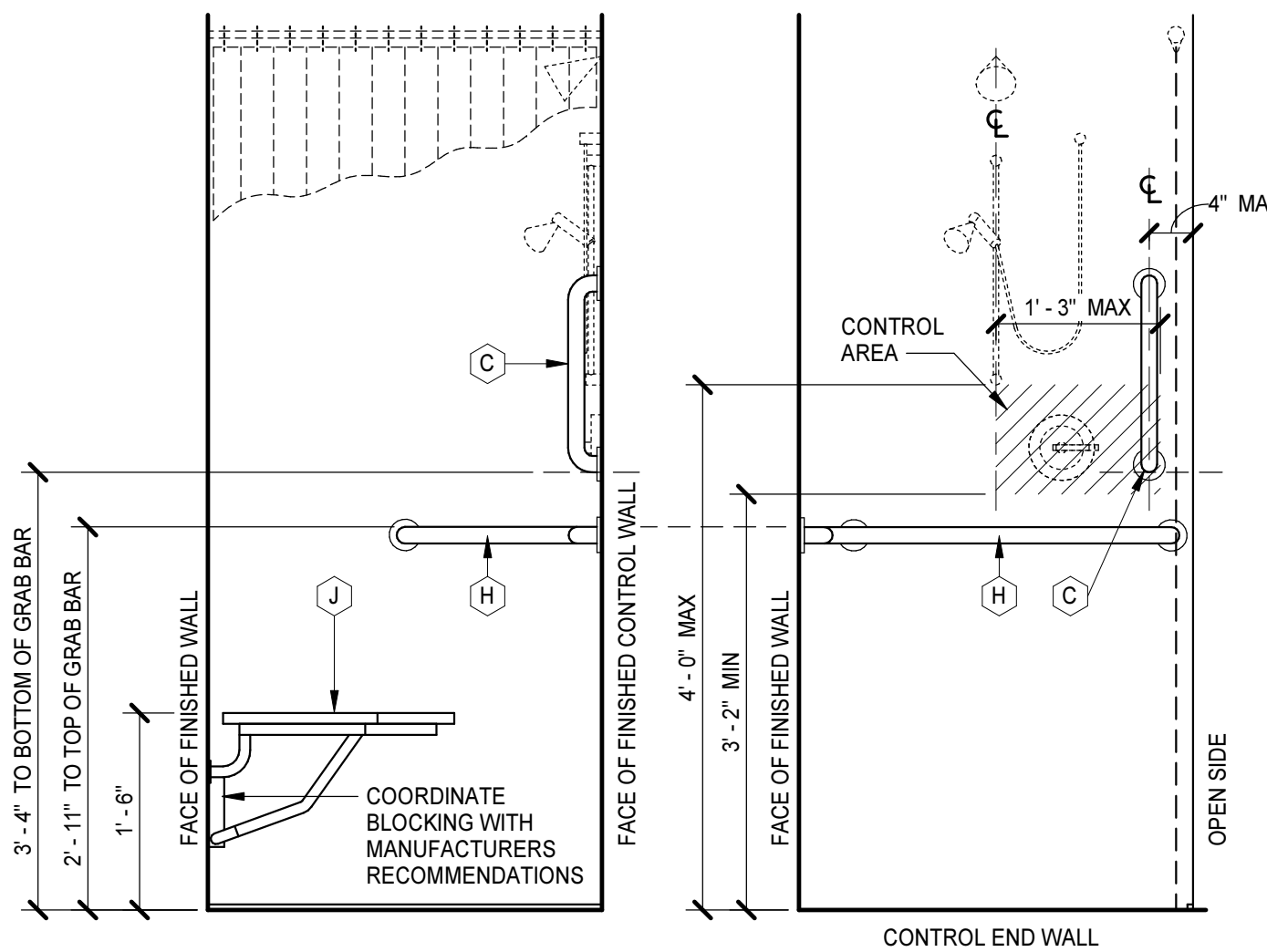
B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.



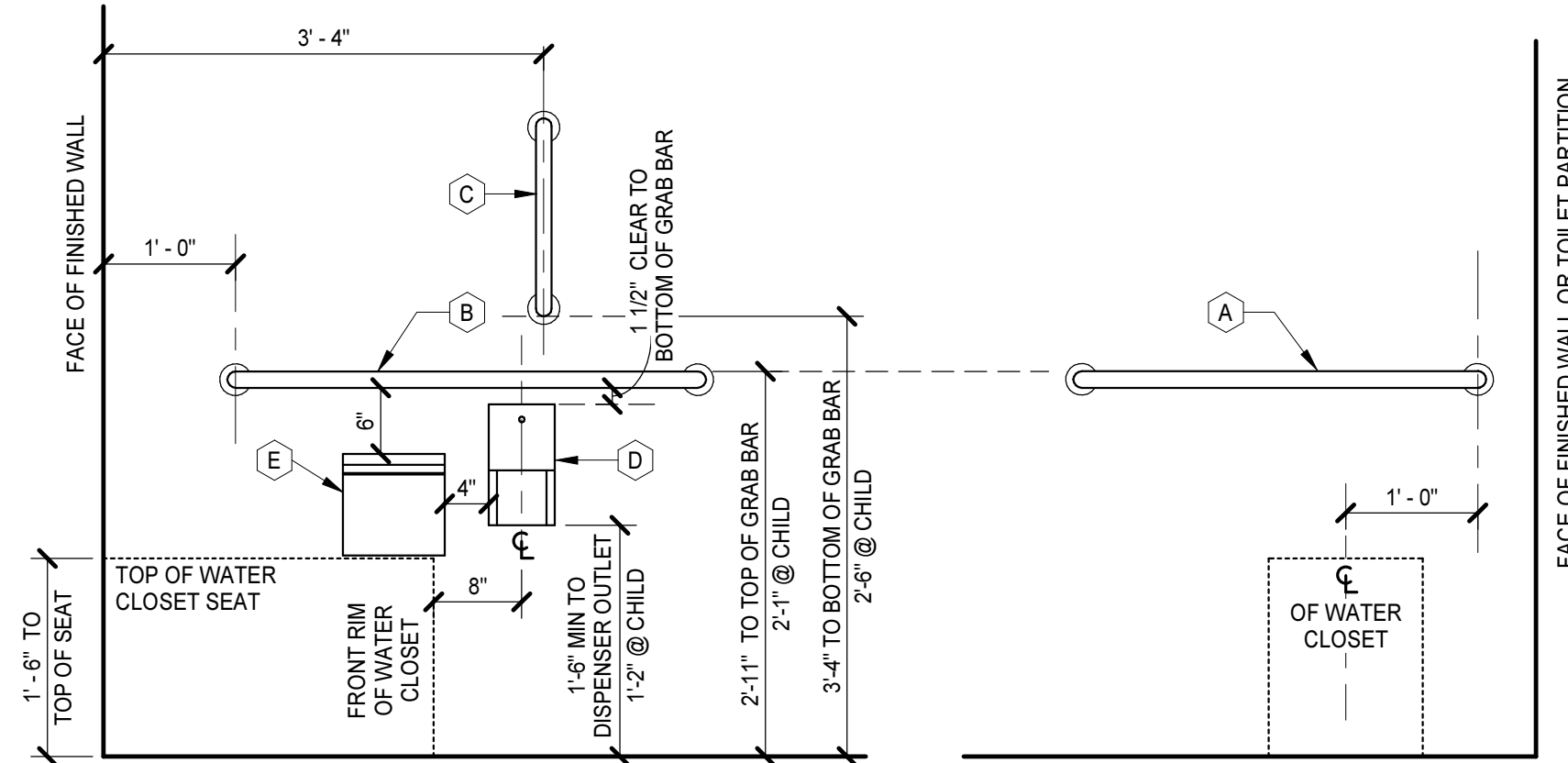
2 ENLARGED PLAN - TOILET AND SHOWER ROOMS
A2.1.1 | A7.1.1 1/4" = 1'-0"



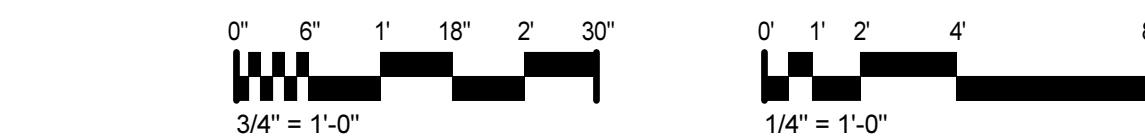
1 ENLARGED TOILET PLAN
A2.1.1 | A7.1.1 1/4" = 1'-0"



TRANSFER-TYPE SHOWER ELEVATIONS
3/4" = 1'-0"



WATER CLOSET ELEVATIONS
3/4" = 1'-0"



TOILET ASSEMBLIES

APPLIES TO DRAWINGS A7.1.n
REPRESENTED BY TA.n

MARK	REMARKS	PLAN	MARK	REMARKS	PLAN
TA1			TA10		
TA2	OMIT E		TA11	CENTER G OVER LAVATORY	
TA3			TA11A	CENTER G OVER LAVATORY	
TA4	OMIT E		TA12		
TA5	NOT USED		TA13	OMIT C H J	
TA6	NOT USED OMIT E		<p>LEGEND NOTES:</p> <p>A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.</p> <p>B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.</p> <p>C. COATROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.</p> <p>D. SLOPE TO DRAIN IN SHOWERS SHALL BE 1/4" PER 1'-0" MAXIMUM.</p>		
TA7					
TA8	NOT USED OMIT E				
TA9					

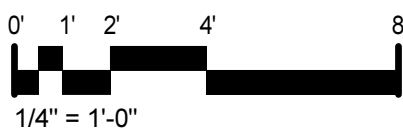
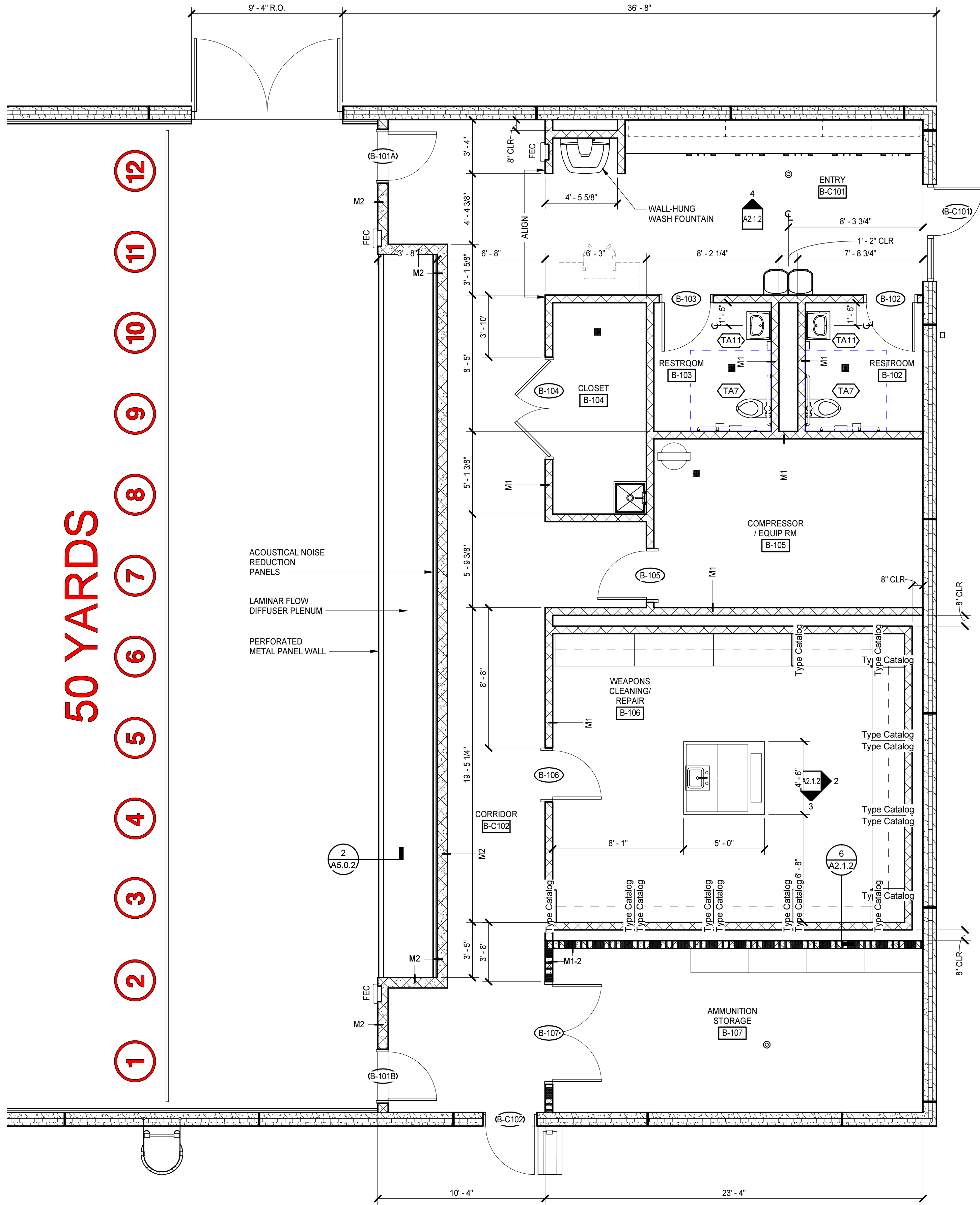
TOILET ACCESSORY SCHEDULE

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	
G	MIRROR (18" x 36"), OVER LAV AND COUNTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	
H	GRAB BAR ASSEMBLY	REFER TO SHOWER ELEVATIONS	
J	L-SHAPED FOLDING SHOWER SEAT	1'-4" TO SEAT SURFACE	
L	SHOWER CURTAIN, ROD AND HOOKS	6'-8" AFF TO ROD	

- ACCESSORY ITEMS ARE IDENTIFIED BY ○ ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.
- ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.
- REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.
- PROVIDE MOP AND BROOM HOLDER W/ SHELF ○ AT ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).
- PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.



1 ENLARGED PLAN
A2.1.2 | A7.1.2 1/4" = 1'-0"

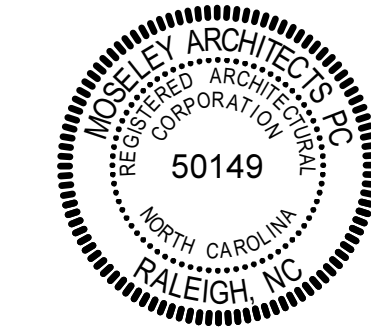


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ENLARGED PLANS

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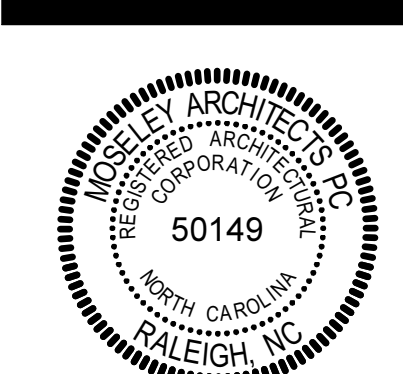
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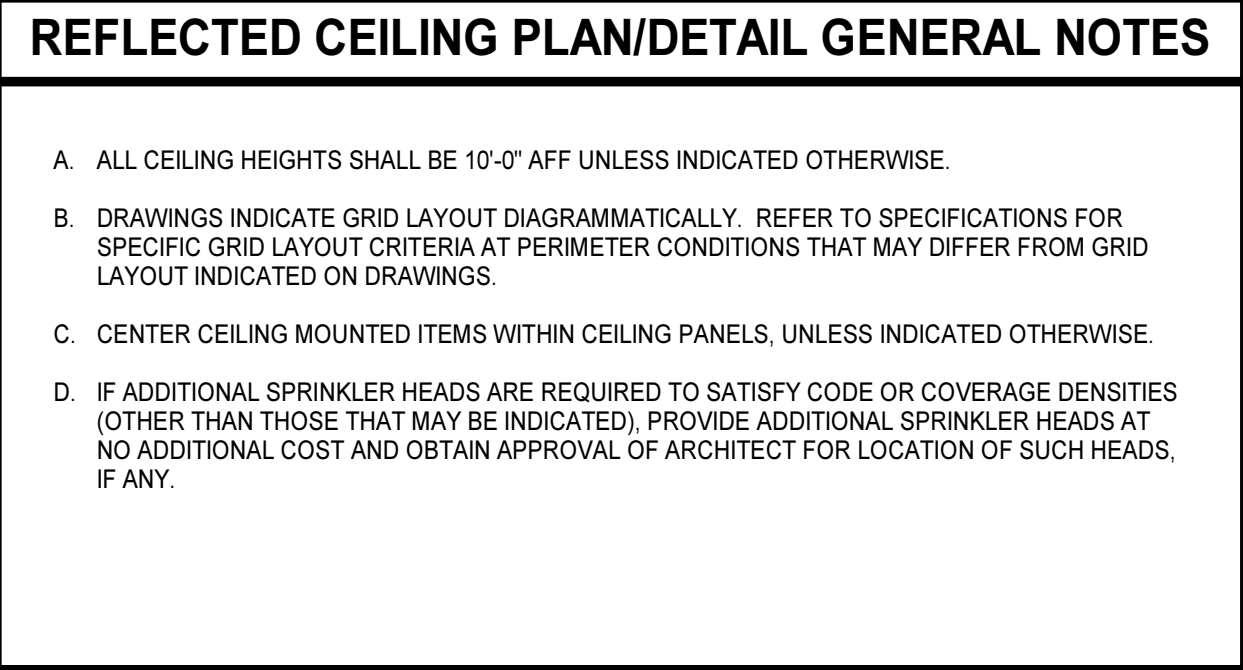
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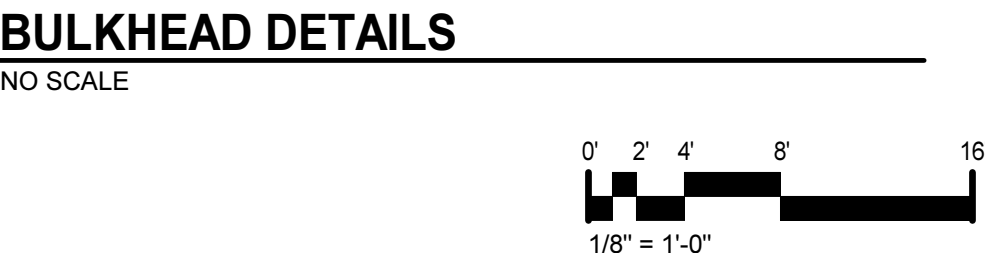
A7.1.2



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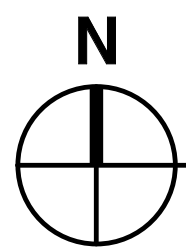
A9.1.1





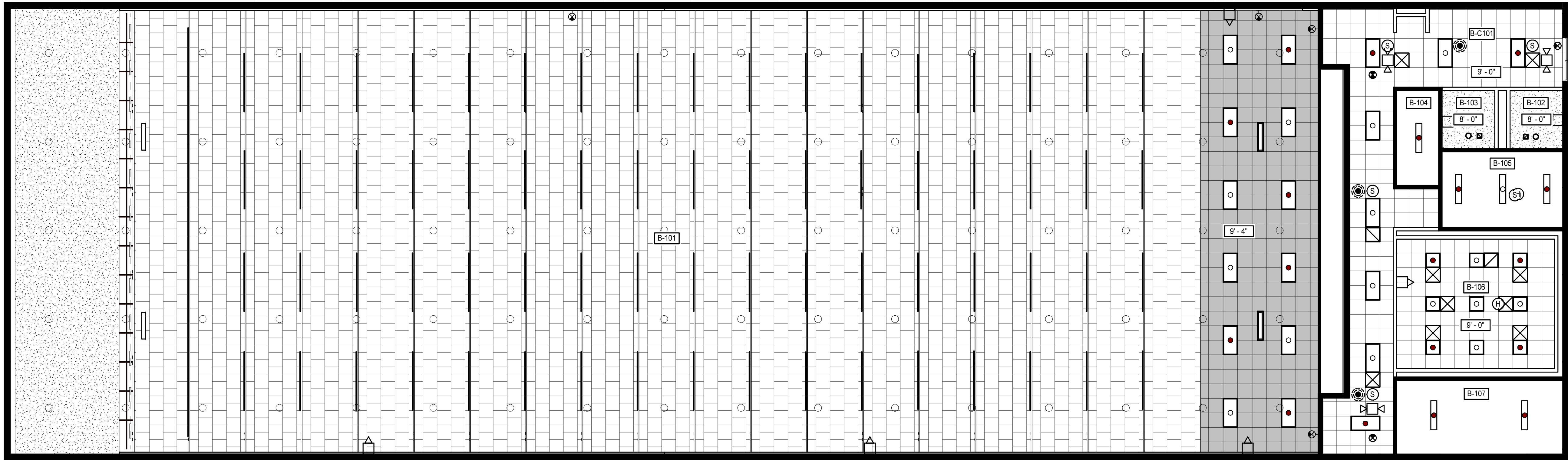
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ALTERNATE NO. 1: INDOOR FIRING RANGE - REFLECTED CEILING PLAN

1/8" = 1'-0"



PRE-FABRICATED
ALUMINUM CANOPY

REFLECTED CEILING PLAN KEYNOTES

REPRESENTED BY [n]
APPLIES TO DRAWINGS A9.1.n

1	CFSFS
2	5/8" GYP BD, TERMINATE 4" ABV FIN CLG
3	FIN CLG, FINISH AND/OR HEIGHT AFF VARIES
4	GYP BD, EXTEND FULL HEIGHT, UNLESS INDICATED OTHERWISE
5	ROOF ACCESS HATCH

REFLECTED CEILING PLAN LEGEND

APPLIES TO DRAWINGS A9.1.n

REFER TO M, E & FP DRAWINGS FOR REFLECTED CEILING PLAN SYMBOLS NOT INDICATED BELOW

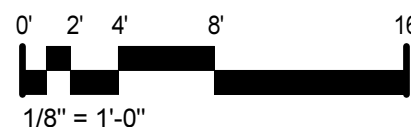
	SPACE NUMBER CEILING HEIGHT, AFF UNO
	INTERIOR APPLICATIONS: GYPSUM BOARD CEILING
	EXTERIOR APPLICATIONS: GYPSUM SOFFIT BOARD OR GYPSUM SHEATHING
	2'-0" x 2'-0" LAY-IN ACOUSTICAL CEILING PANELS IN SUSPENDED GRID
	HORIZONTAL SAFETY CEILING
	BALLISTIC BAFFLE, 20 DEGREE SLOPE
	ACCESS PANEL
	EXTERIOR WALL
	INTERIOR WALL/PARTITION TO UNDERSIDE OF DECK
	INTERIOR WALL/PARTITION TO CAP ABOVE OR TERMINATES ADJACENT TO A RATED HORIZONTAL ASSEMBLY
	INTERIOR WALL/PARTITION 4" MIN ABOVE HIGHEST ADJACENT CEILING, IF NECESSARY TO ACHIEVE RESULTS DESIRED, EXTEND WALL HEIGHT SO WALL BRACING IS NOT EXPOSED TO VIEW IN FINISHED SPACES
	INTERIOR WALL/PARTITION TO UNDERSIDE OF CEILING
	EXISTING TO REMAIN, VERIFY VERTICAL EXTENTS WHERE THE HEIGHT IMPACTS THE WORK

REFLECTED CEILING PLAN/DETAIL GENERAL NOTES

- ALL CEILING HEIGHTS SHALL BE 10'-0" AFF UNLESS INDICATED OTHERWISE.
- DRAWINGS INDICATE GRID LAYOUT DIAGRAMMATICALLY. REFER TO SPECIFICATIONS FOR SPECIFIC GRID LAYOUT CRITERIA AT PERIMETER CONDITIONS THAT MAY DIFFER FROM GRID LAYOUT INDICATED ON DRAWINGS.
- CENTER CEILING MOUNTED ITEMS WITHIN CEILING PANELS, UNLESS INDICATED OTHERWISE.
- IF ADDITIONAL SPRINKLER HEADS ARE REQUIRED TO SATISFY CODE OR COVERAGE DENSITIES (OTHER THAN THOSE THAT MAY BE INDICATED), PROVIDE ADDITIONAL SPRINKLER HEADS AT NO ADDITIONAL COST AND OBTAIN APPROVAL OF ARCHITECT FOR LOCATION OF SUCH HEADS, IF ANY.



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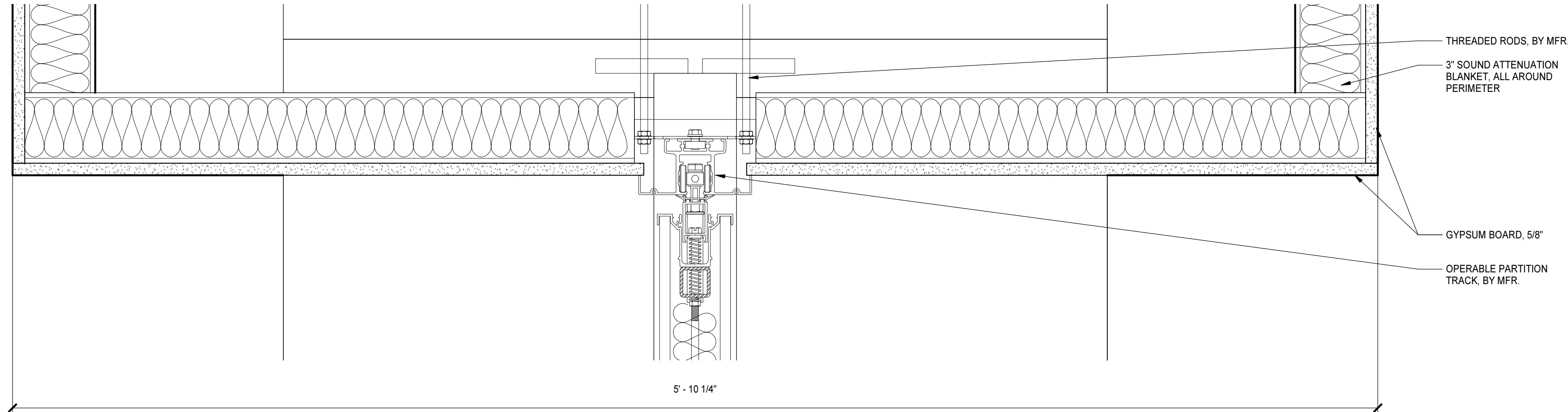
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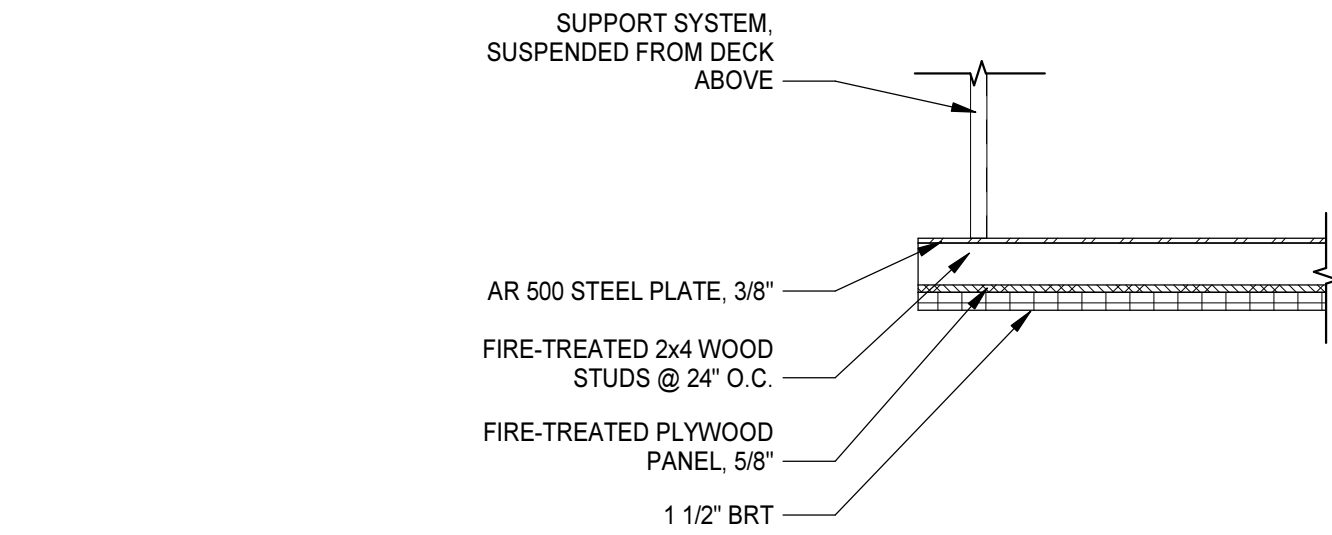
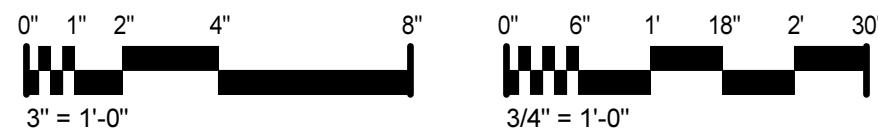
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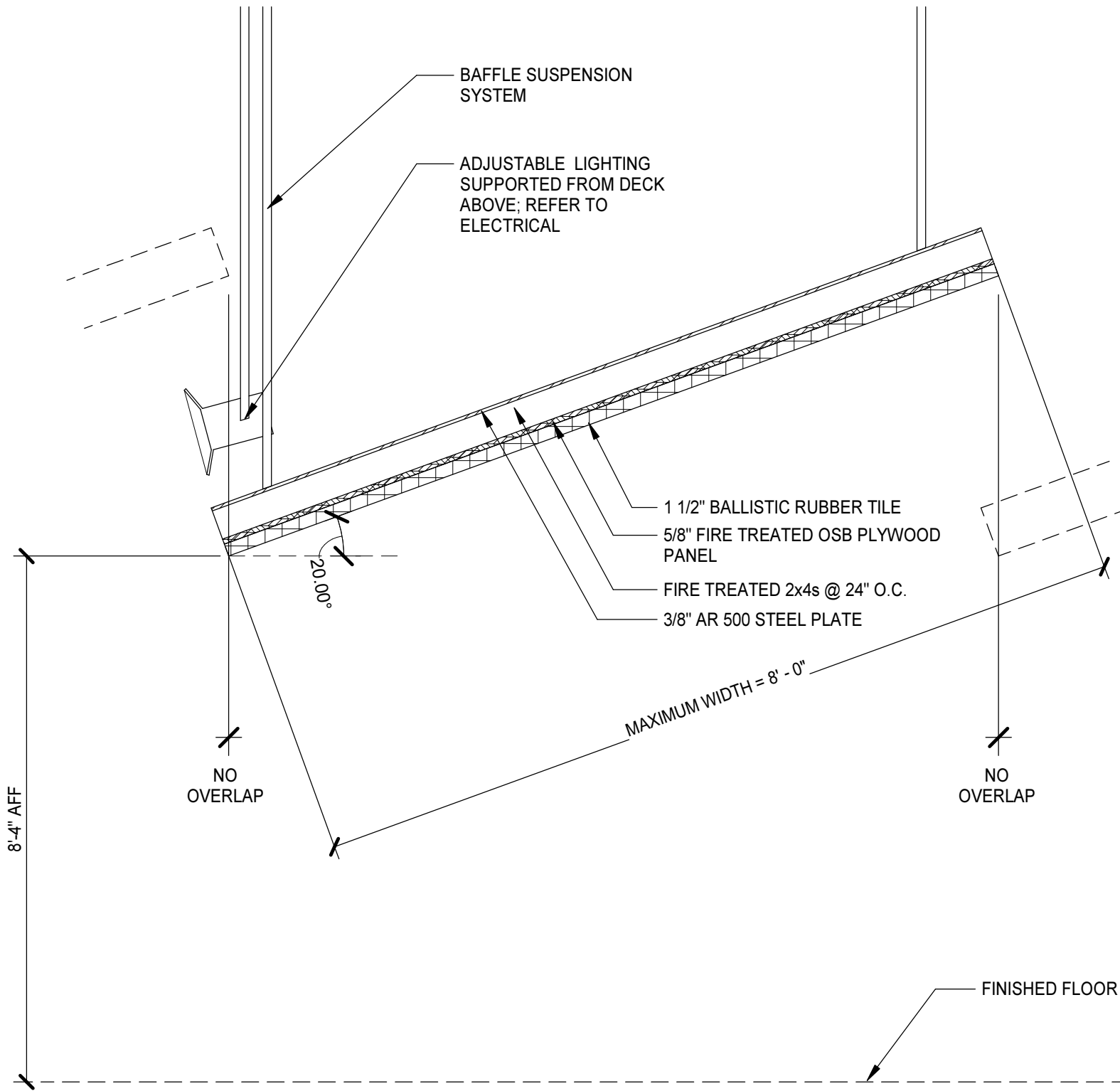
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1 OPERABLE PARTITION HEAD DETAIL
A9.1.1 | A9.2.1 3/4" = 1'-0"



2 SAFETY CEILING DETAIL
A5.0.1 | A9.2.1 3/4" = 1'-0"



3 BALLISTIC SAFETY BAFFLE DETAIL
A5.0.1 | A9.2.1 3/4" = 1'-0"

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CEILING DETAILS

A9.2.1

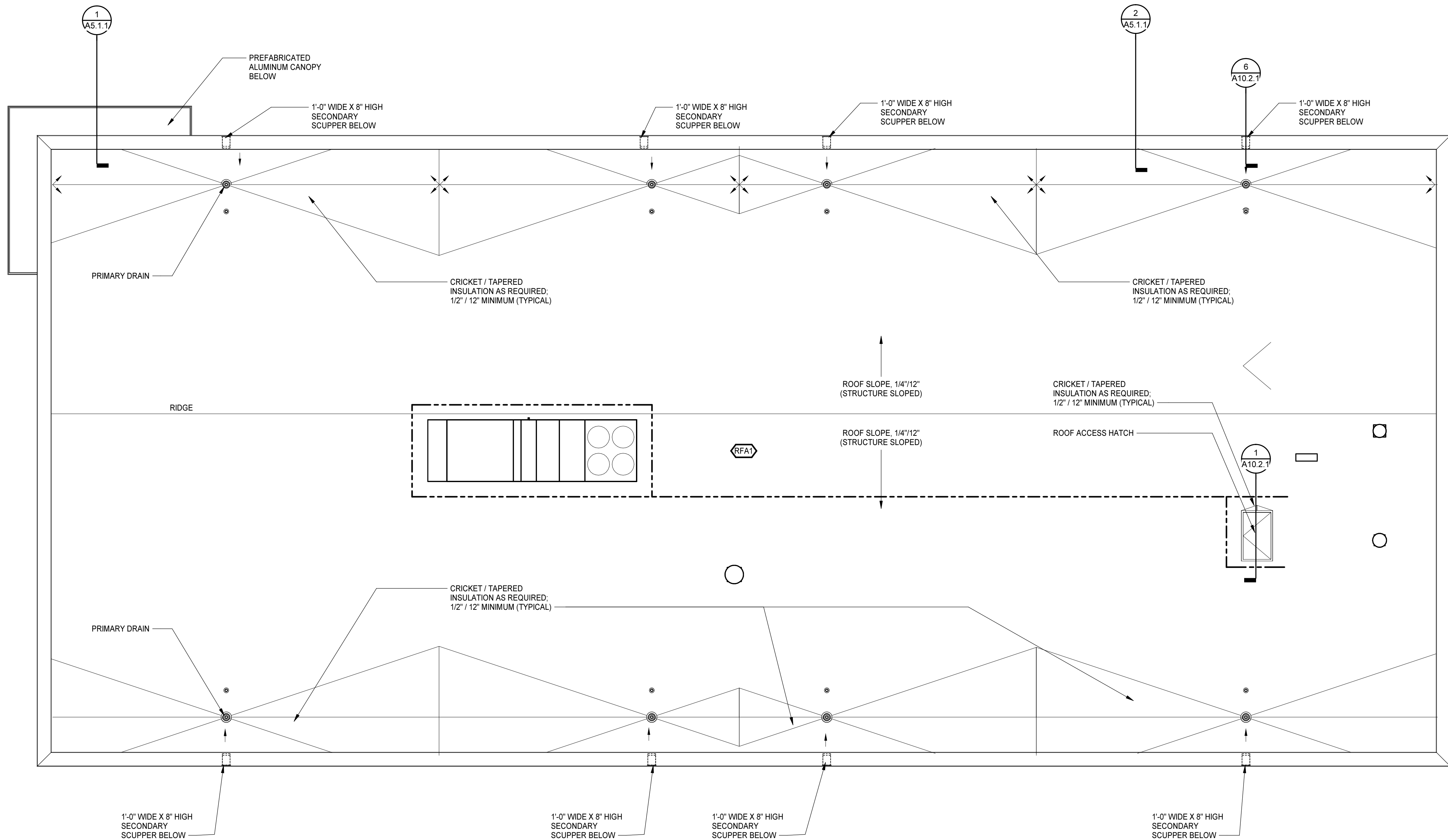
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CLASSROOM-ADMINISTRATION BUILDING - ROOF PLAN

1/8" = 1'-0"

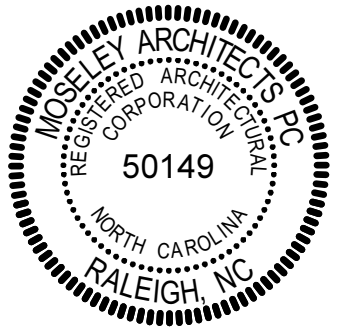


ROOF ASSEMBLIES			
APPLIES TO A10.1.n AND A10.2.n SERIES OF DRAWINGS REPRESENTED BY (n)			
MARK	FIRE RATED ASSEMBLY (REFER TO LS.1 FOR LEGEND)	REMARKS	INFORMATION
RFA1			ROOF ASSEMBLIES ARE SHOWN DIAGRAMMATICALLY. REFER TO SPECS FOR REQUIRED R-VALUE AND MATERIAL THICKNESS
RFA2			

ROOF PLAN LEGEND	
APPLIES TO DRAWINGS A10.1.n REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICATED BELOW	
	PRIMARY ROOF DRAIN AND SUMP
	SECONDARY/EMERGENCY OVERFLOW (WHERE OCCURS)
	GUTTER AND DOWNSPOUT (RECTANGULAR SHOWN, MAY BE ROUND IF SPECIFIED)
	ROOF ACCESS HATCH
	SCUPPER
	CRICKET
	WALKWAY PATH
	INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE

ROOF PLAN GENERAL NOTES	
A. ALL ROOF ASSEMBLIES: RFA1, UNO.	
B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF ROOFTOP EQUIPMENT AND ASSOCIATED PENETRATIONS.	
C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATED PENETRATIONS WITH STRUCTURE.	
D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL CONSTRUCTION CONDITIONS. ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY ROOFING MANUFACTURER.	
E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING BUT NOT LIMITED TO ROOF DRAINS, VTR, CURBS, EXPANSION JOINTS, ROOF HATCHES). PROVIDE MFR'S DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFICATIONS.	
F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPMENT, AND OTHER OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAINAGE SLOPE IS MAINTAINED AT ALL SUCH AREAS.	
G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER SPLASH BLOCKS.	
H. CENTER ALL PENETRATIONS BETWEEN RIBS OF METAL ROOFING. PIPING, DUCTWORK AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATIONS CENTERED BETWEEN RIBS.	

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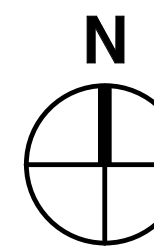
CLASSROOM -
ADMINISTRATION
BUILDING ROOF PLAN

A10.1.1

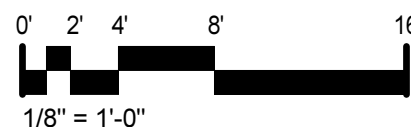
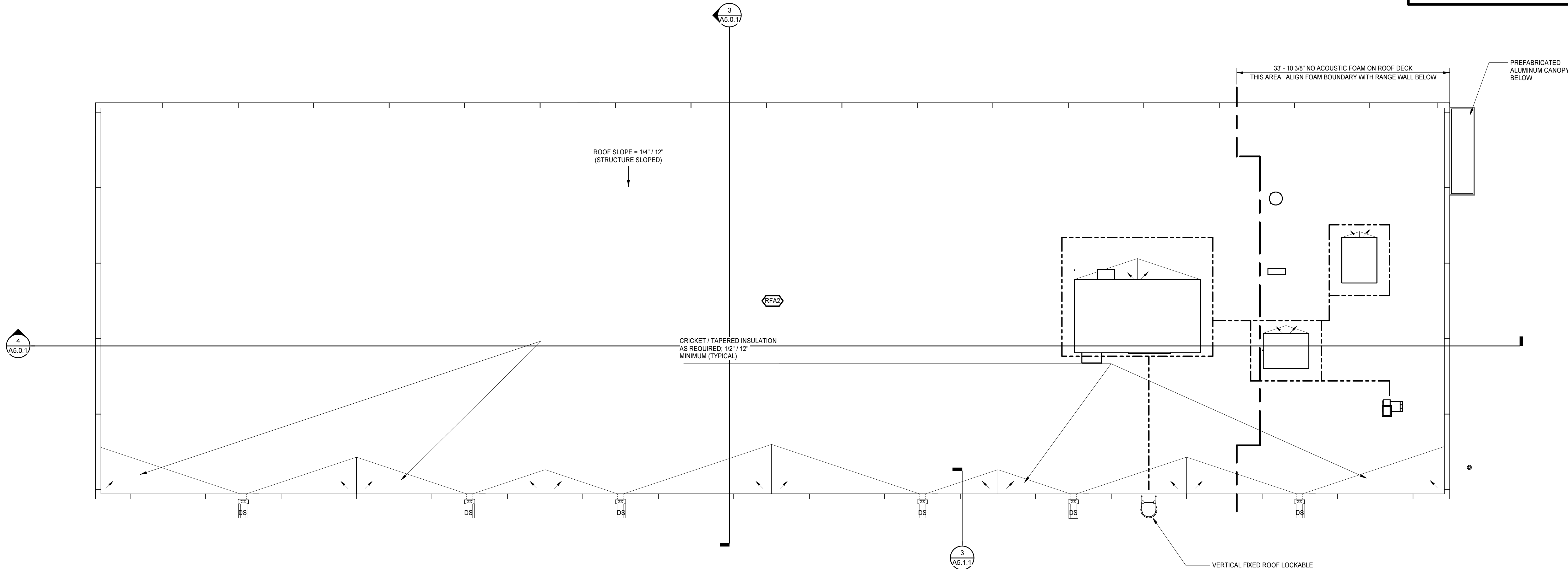
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ALTERNATE NO. 1: INDOOR FIRING RANGE - ROOF PLAN
1/8" = 1'-0"

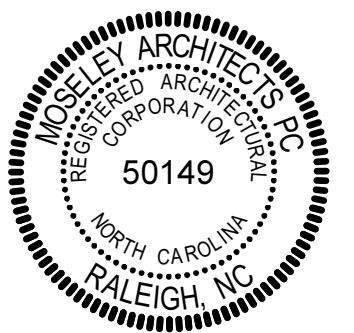


ROOF ASSEMBLIES			
APPLIES TO A10.1.n AND A10.2.n SERIES OF DRAWINGS REPRESENTED BY			
MARK	FIRE RATED ASSEMBLY (REFER TO LS1.1 FOR LEGEND)	REMARKS	INFORMATION ROOF ASSEMBLIES ARE SHOWN DIAGRAMMATICALLY. REFER TO SPECS FOR REQUIRED R-VALUE AND MATERIAL THICKNESS
RFA1			
RFA2			

ROOF PLAN LEGEND	
APPLIES TO DRAWINGS A10.1.n REFER TO M, E & FP DRAWINGS FOR ROOF SYMBOLS NOT INDICATED BELOW	
	PRIMARY ROOF DRAIN AND SUMP
	SECONDARY/EMERGENCY OVERFLOW (WHERE OCCURS)
	GUTTER AND DOWNSPOUT (RECTANGULAR SHOWN, MAY BE ROUND IF SPECIFIED)
	ROOF ACCESS HATCH
	SCUPPER
	CRICKET
	WALKWAY PATH
	INDICATES DIRECTION OF ROOF ASSEMBLY SLOPE

ROOF PLAN GENERAL NOTES	
A. ALL ROOF ASSEMBLIES: RFA1, UNO.	
B. ROOF PLAN DOES NOT INDICATE ALL EQUIPMENT AND PENETRATIONS. REFER TO OTHER DISCIPLINE'S DRAWINGS FOR QUANTITIES AND LOCATIONS OF ROOFTOP EQUIPMENT AND ASSOCIATED PENETRATIONS.	
C. COORDINATE LOCATION AND SIZE OF ROOF OPENINGS AND ASSOCIATED PENETRATIONS WITH STRUCTURE.	
D. ROOF DETAILS MAY NOT ENTIRELY REPRESENT ACTUAL CONSTRUCTION CONDITIONS. ACTUAL DETAIL ASSEMBLIES SHALL BE APPROVED BY ROOFING MANUFACTURER.	
E. ROOF PLAN DOES NOT INDICATE ALL ROOFING DETAILS (INCLUDING BUT NOT LIMITED TO ROOF DRAINS, VTR, CURBS, EXPANSION JOINTS, ROOF HATCHES). PROVIDE MFR'S DETAILS AS REQUIRED TO SUIT SPECIFIC APPLICATION AND SPECIFICATIONS.	
F. PROVIDE CRICKETS AT DRAINS, WALLS, CURBS, MECHANICAL EQUIPMENT, AND OTHER OBSTRUCTIONS SUCH THAT 1/4" PER FOOT MINIMUM POSITIVE DRAINAGE SLOPE IS MAINTAINED AT ALL SUCH AREAS.	
G. PROVIDE DOUBLE-LAYER OF MEMBRANE ROOFING MATERIAL UNDER SPLASH BLOCKS.	
H. CENTER ALL PENETRATIONS BETWEEN RIBS OF METAL ROOFING. PIPING, DUCTWORK AND CURBS SHALL BE OFFSET AS REQUIRED TO ACHIEVE PENETRATIONS CENTERED BETWEEN RIBS.	

MOSELEYARCHITECTS



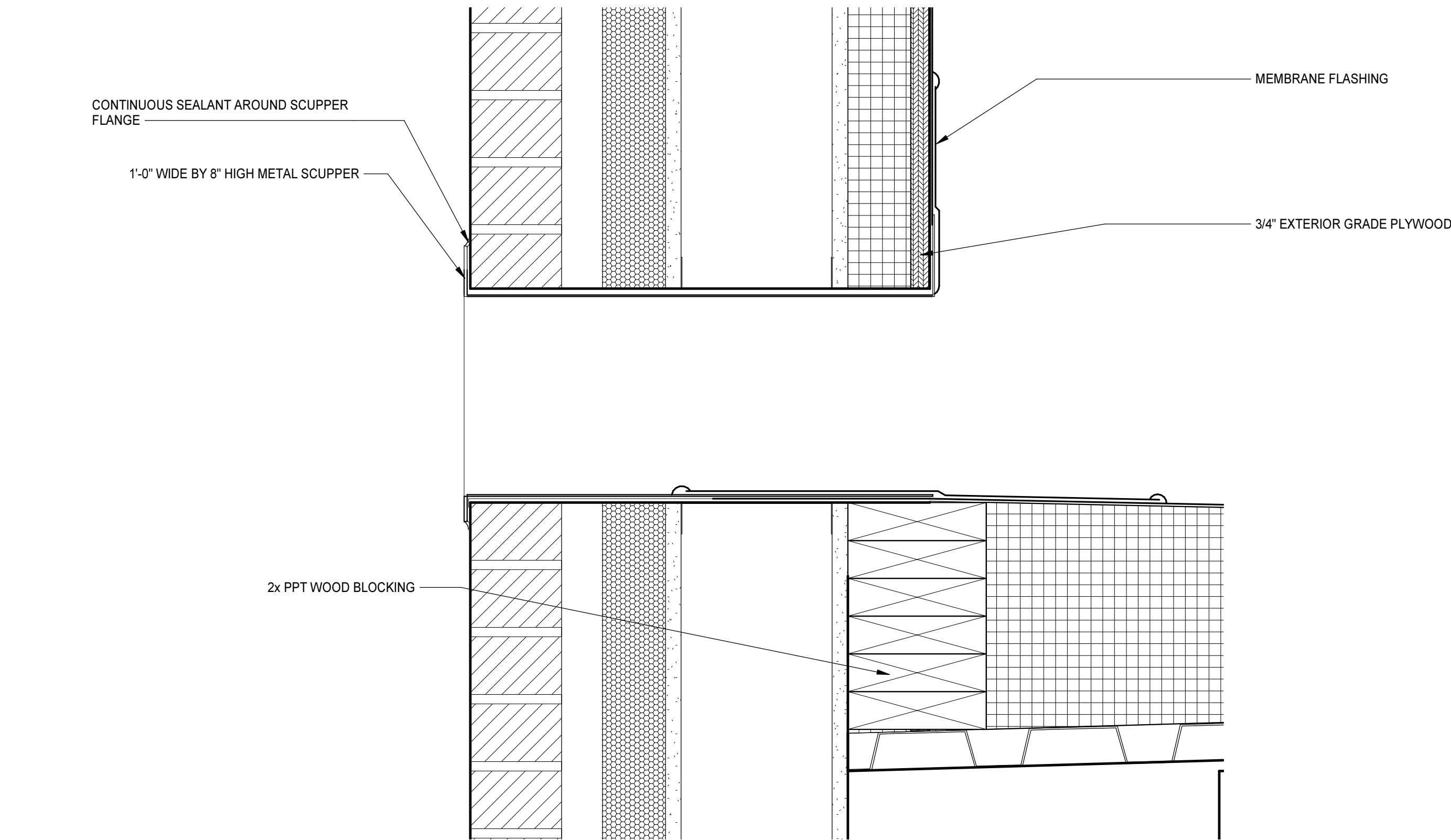
PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

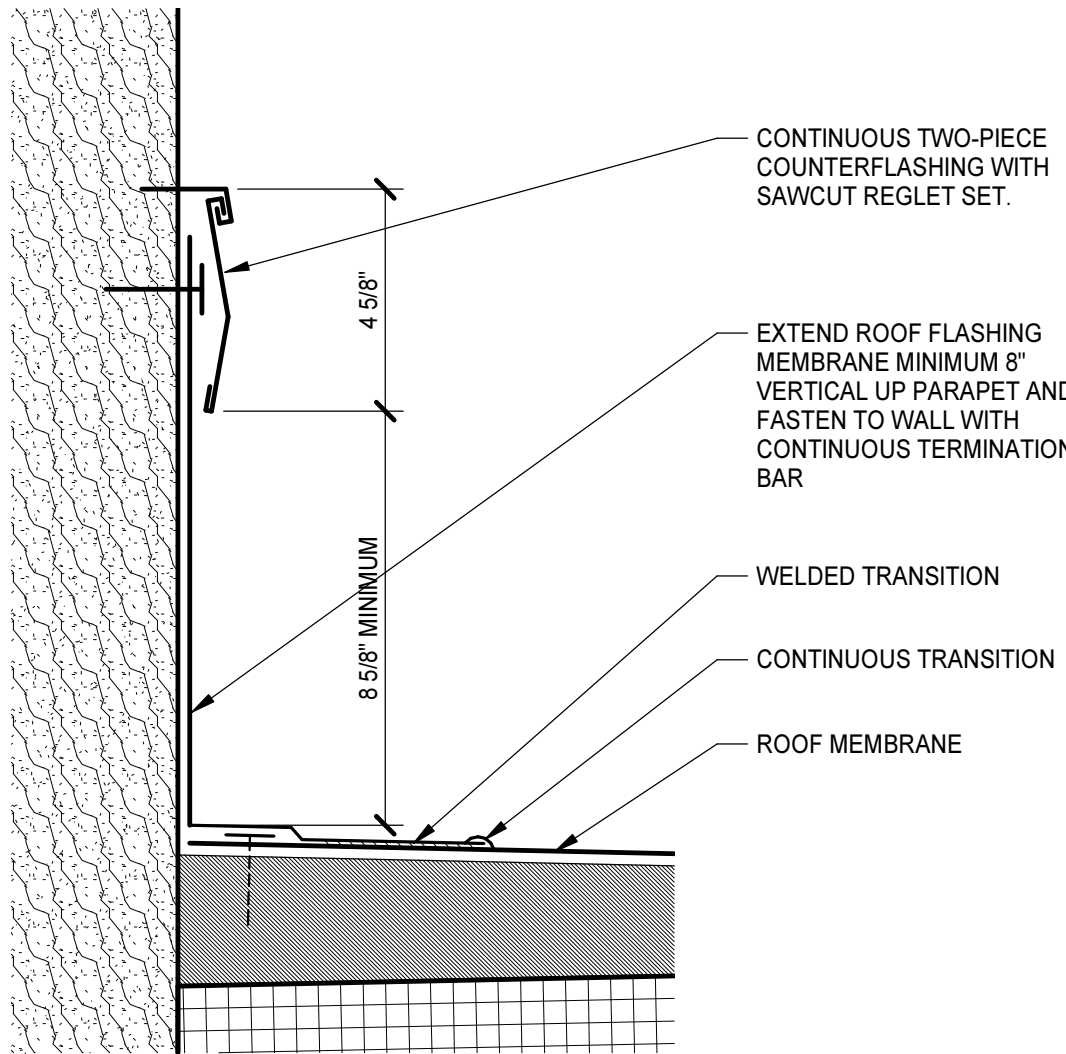
PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

ALTERNATE NO. 1 -
INDOOR FIRING RANGE
ROOF PLAN

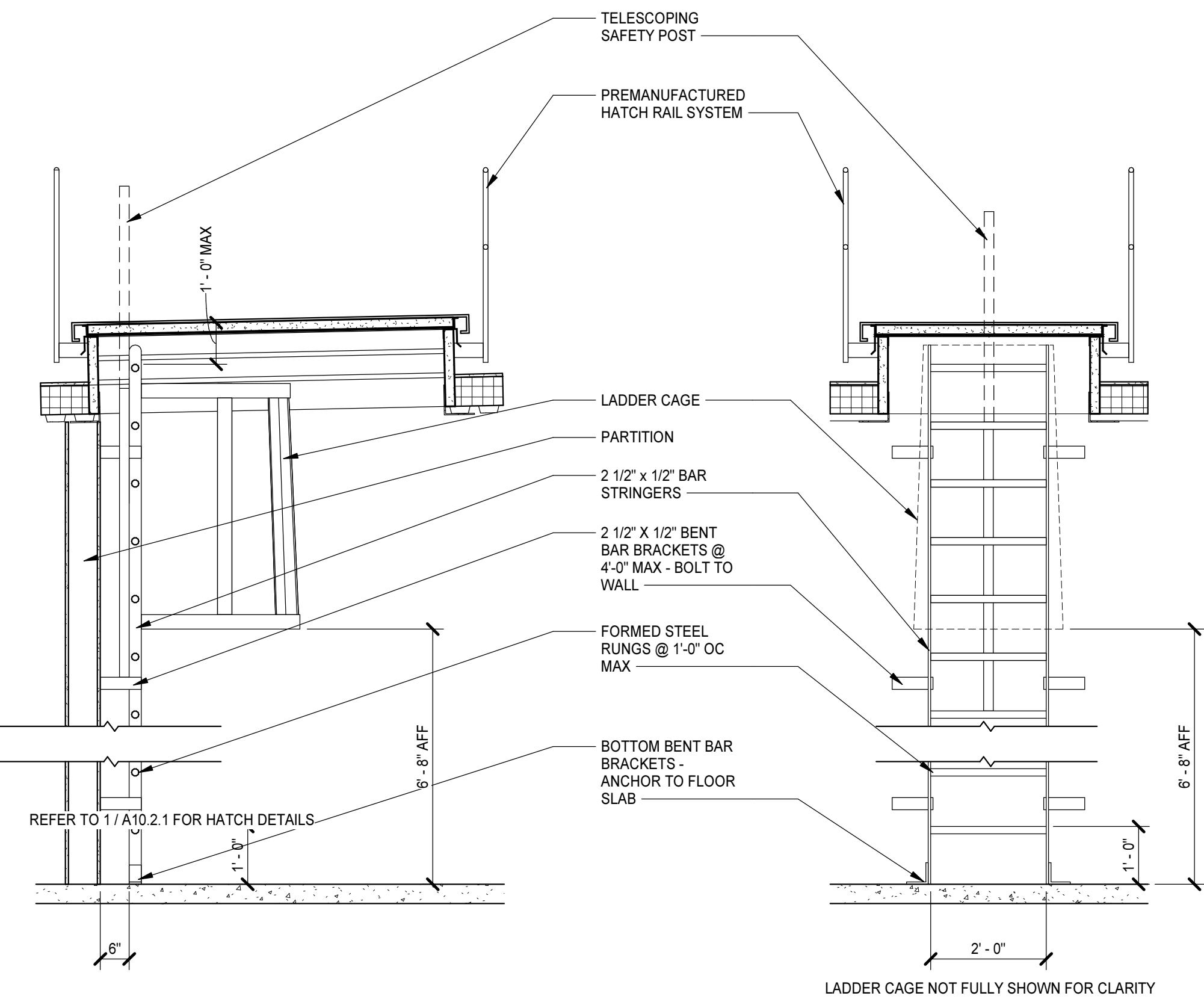
A10.1.2



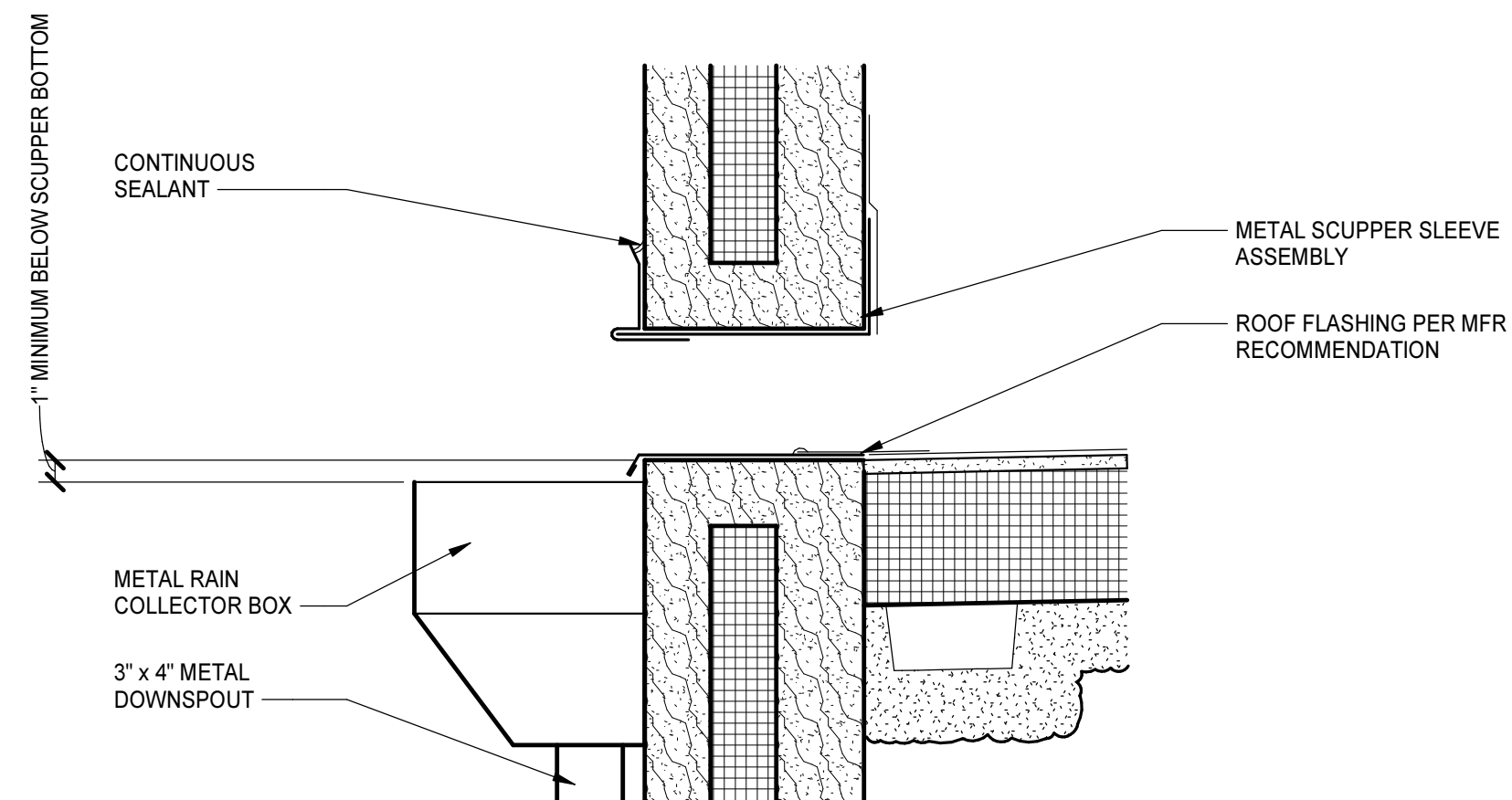
6 CLASSROOM BUILDING SCUPPER DETAIL
A10.1.1 | A10.2.1 3" = 1'-0"



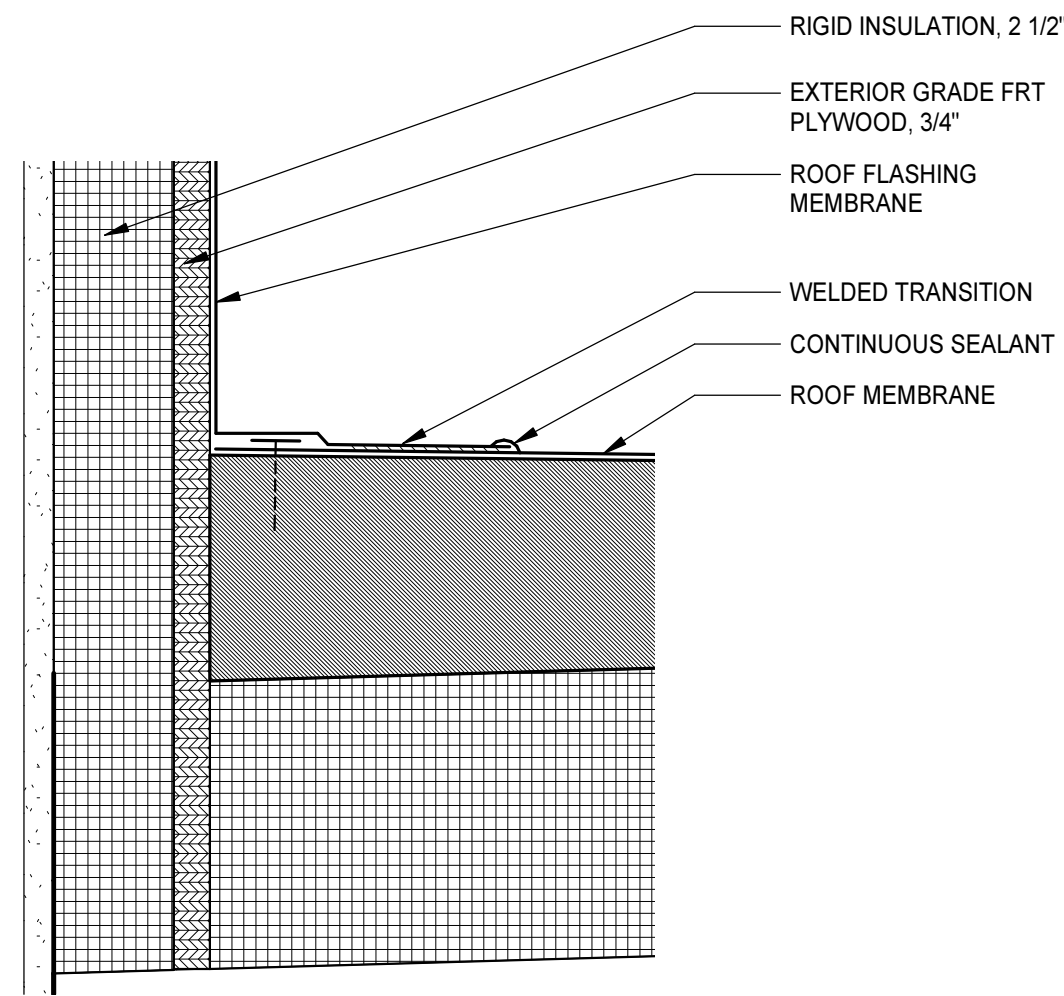
3 ROOF DETAIL
A5.1.1 | A10.2.1 3" = 1'-0"



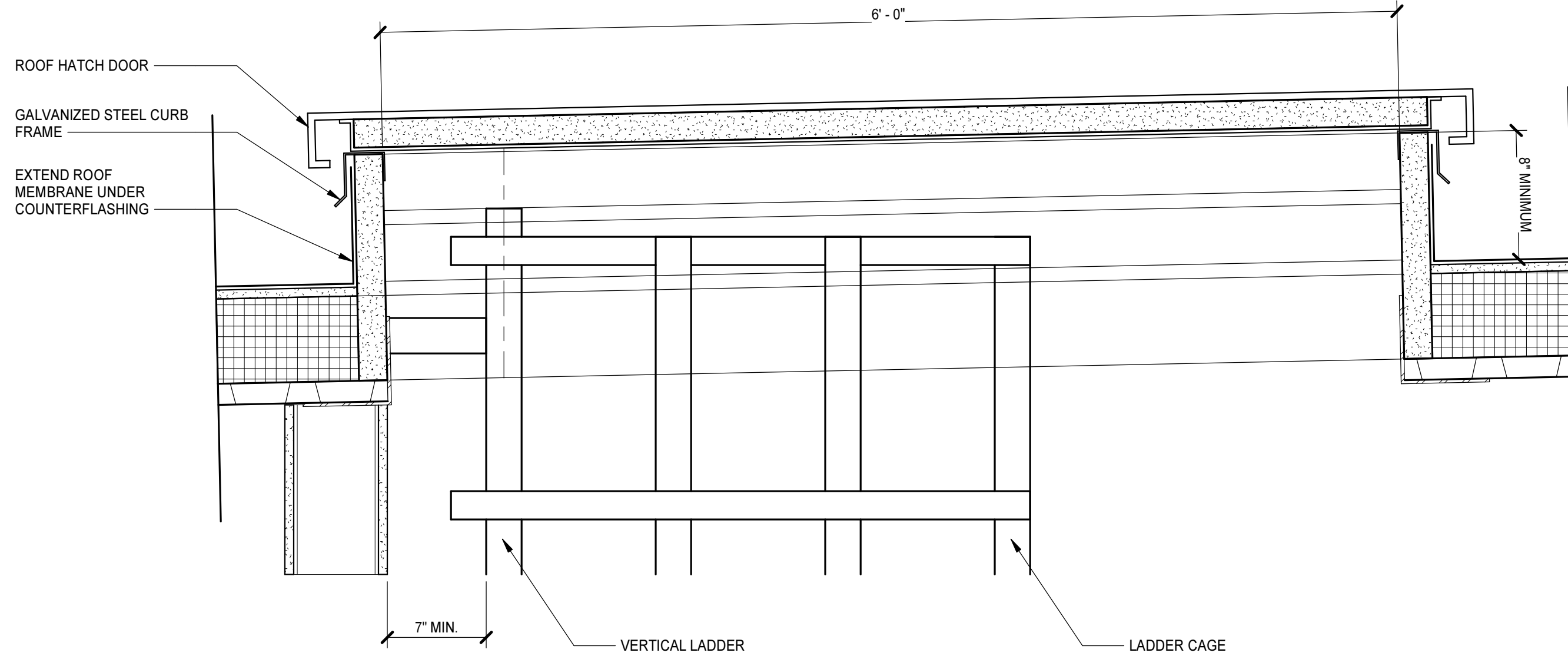
5 CLASSROOM-ADMINISTRATION BUILDING - SECTION/ELEVATION @ LADDER & HATCH
A2.1.1 | A10.2.1 1/2" = 1'-0"



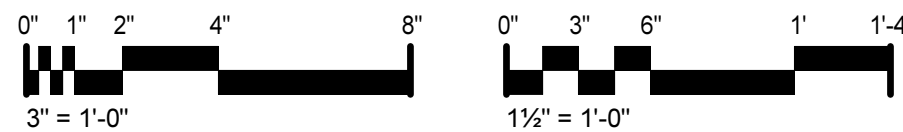
4 ROOF DETAIL - PRIMARY SCUPPER AND COLLECTOR BOX
A10.2.1 1 1/2" = 1'-0"



2 ROOF DETAIL
A5.1.1 | A10.2.1 3" = 1'-0"



1 ROOF DETAIL - ROOF ACCESS HATCH
A10.1.1 | A10.2.1 1 1/2" = 1'-0"



STRUCTURAL ABBREVIATIONS

AB	ANCHOR BOLT	HS	HIGH STRENGTH
AESS	ARCHITECTUALLY EXPOSED STRUCTURAL STEEL	HSS	HOLLOW STRUCTURAL SECTION
AFF	ABOVE FINISHED FLOOR	HT	HEIGHT
ALT	ALTERNATE	ID	INSIDE DIAMETER
ALUM	ALUMINUM	IN	INCH
APPROX	APPROXIMATE	INFO	INFORMATION
ARCH	ARCHITECTURAL ARCHITECT	INT	INTERIOR
AVG	AVERAGE	JBE	JOIST BEARING ELEVATION
BLDG	BUILDING	JS	JOIST SUBSTITUTE
BM	BENCH MARK	JST	JOIST
BMC	BUILDING MOUNTED CANOPIES	JT	JOINT
BOT	BOTTOM	KIP	KIPS
BRG	BEARING	LBS	POUNDS
BTWN	BETWEEN	LF	LINEAR FEET (FOOT)
CANT	CANTILEVER	LLH	LONG LEG HORIZONTAL
CRSF	COLD FORMED STEEL FRAMING	LLV	LONG LEG VERTICAL
CIP	CAST IN PLACE	M	METERS
CJ	CONTROL JOINT	MAS	MASONRY
CLG	CEILING	MATL	MATERIAL
CLR	CLEAR	MAX	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MBMA	METAL BUILDING MANUFACTURERS ASSOC.
COL	COLUMN	MBS	METAL BUILDING SYSTEM
CONC	CONCRETE	MECH	MECHANICAL
CONSTR	CONSTRUCTION	MFR	MANUFACTURER
CONT	CONTINUOUS	MIN	MINIMUM
CTR	CENTER	MM	MILLIMETER(S)
DIA	DIAMETER	NM	NOMINAL
DBL	DOUBLE	NS	NON SHRINK
OD	OUTSIDE DIAMETER	OC	ON CENTER
DIAG	DIAGONAL	OD	OUTSIDE DIAMETER
DM	DIMENSION	OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
DN	DOWN	OPNG	OPENING
DWG	DRAWING	OPP	OPPOSITE
EA	EACH	PAF	POWDER-ACTUATED FASTENERS
EAF	EACH FACE	PC CONC	PRECAST CONCRETE
EJ	EXPANSION JOINT	PRFC	PRE-FABRICATED BUILDING COLUMN
EL	ELEVATION	PLF	POUNDS PER LINEAR FOOT
ELECT	ELECTRICAL	POLY	POLYETHYLENE
ELEV	ELEVATOR	PPT	PRESSURE PRESERVATIVE TREATED
EOD	EDGE OF DECK	PSF	POUNDS PER SQUARE FOOT
EOS	EDGE OF SLAB	PTFE	POLYTETRAFLUOROETHYLENE
EQ	EQUAL		
EW	EACH WAY	RD	ROOF DRAIN
EX	EXISTING	REF	REFERENCE
EXP	EXPANSION	REINF	REINFORCING, REINFORCED
EXT	EXTERIOR	REQD	REQUIRED
FB	FIXED BASE	SHLR	SIMILAR
FD	FLOOR DRAIN	SL	SLOPE
FDN	FOUNDATION	SOG	SLAB ON GRADE
FF	FINISHED FLOOR	SPA	SPACES
FIN	FINISHED	SS	STAINLESS STEEL
FLR	FLOOR	STD	STANDARD
FBR	FACE OF BRICK	STIFF	STIFFENER
FCC	FACE OF CONCRETE	STRUCT	STRUCTURAL
FOM	FACE OF MASONRY	SUSP	SUSPENDED
FRMG	FRAMING	SYM	SYMMETRICAL
FRT	FIRE RETARDANT TREATED	T&B	TOP AND BOTTOM
FT	FOOT	T&G	TONGUE AND GROOVE
FTG	FOOTING	TF	TRANSFER FORCE
G	GAGE	TOP OF CONCRETE	
GALV	GALVANIZED	TOS	TOP OF STEEL
GB	GRADE BEAM	TOSL	TOP OF SLAB
GC	GENERAL CONTRACTOR	TOW	TOP OF WALL
GRD	GRADE	TYP	TYPICAL
HD	HEADED	UNO	UNLESS NOTED OTHERWISE
HK	HOOK	VB	VAPOR BARRIER
HORIZ	HORIZONTAL	VERT	VERTICAL
		VR	VAPOR RETARDER
		WP	WORK POINT
		WWF	WELDED WIRE FABRIC

PLAN LEGEND

☐	CENTERLINE
JBE (+X-X)	JOIST BEARING ELEVATION
BP1, BP2 ...	BEAM BEARING PLATE
BP-A, BP-B ...	COLUMN BASE PLATE
P-1, P-2 ...	CONCRETE PIER
KCS	CONSTANT SHEAR JOIST
SP	SPECIAL JOIST
	WALL FOOTING STEP
	WORK POINT
	TOP OF SLAB ELEVATION
L1, L2 ...	LINTEL
	COLUMN FOOTING
(+X-X)	TOP OF STEEL BEAM ELEVATION
(J)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE IN SAME PLANE AS TOP OF JOIST
(SL)	INDICATES TOP OF STRUCTURAL MEMBER SHALL BE SLOPED
WFX	WALL FOOTING
	THICKENED SLAB
*	STEEL JOIST BOTTOM CHORD EXTENSION, WELDED
TF	TRANSFER FORCE
	CMU WALL REINFORCING SIZE AND SPACING
	CHANGE IN SLAB ELEVATION
TCX	TOP CHORD EXTENSION

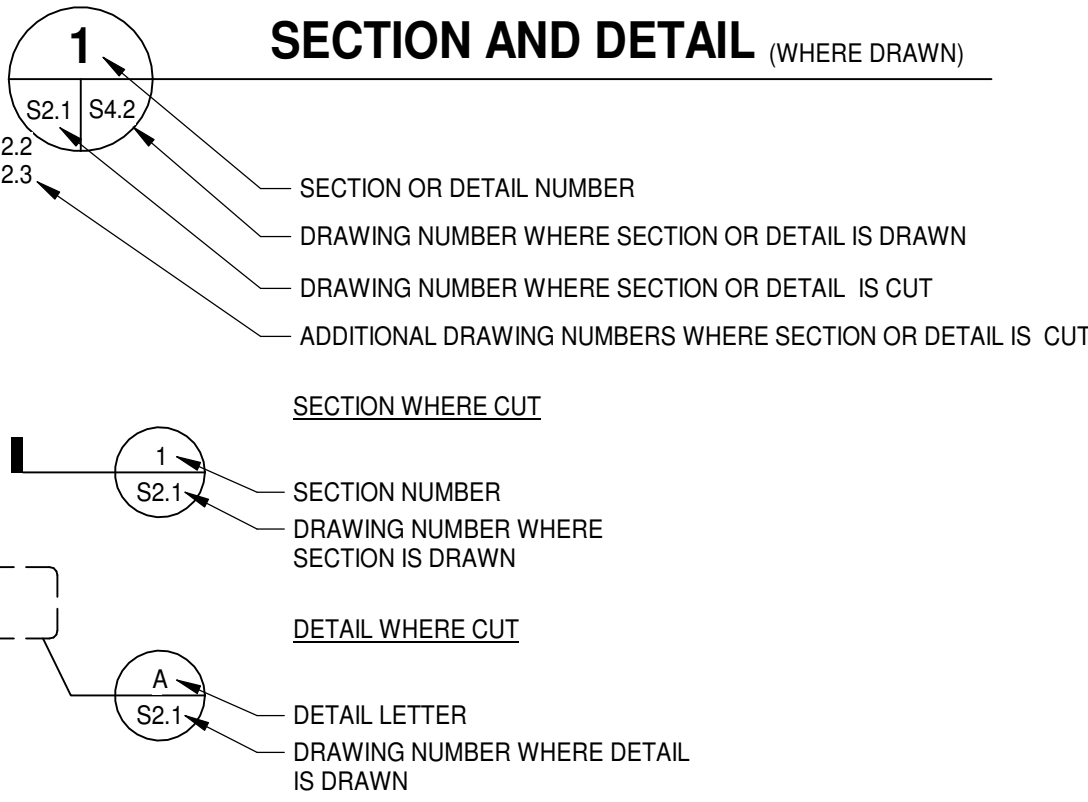
STRUCTURAL MATERIALS LEGEND

	EARTH
	CAST IN PLACE CONCRETE
	CLAY BRICK
	HOLLOW CONCRETE BLOCK
	GROUT FILLED CONCRETE BLOCK
	PRECAST CONCRETE, CAST STONE
	POROUS FILL OR GRANULAR BASE COURSE

DESIGN LOAD DATA

1. CLASSIFICATION OF BUILDING RISK CATEGORY (IBC TABLE 1604.5)	III (CLASSROOM BLDG), II (ALTERNATE NO. 1)
2. FLOOR LIVE LOADS	UNIFORM CONCENTRATED
OFFICES	50 PSF 2000 LB
PARTITION ALLOWANCE	15 PSF
LOBBIES AND FIRST FLOOR CORRIDORS	100 PSF 2000 LB
CLASSROOMS	100 PSF 2000 LB
LIGHT STORAGE MECHANICAL ROOMS	125 PSF 150 PSF
CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.	
REDUCTION OF FLOOR LIVE LOAD HAS NOT BEEN UTILIZED.	
3. ROOF LIVE LOADS	
MINIMUM ROOF LIVE LOAD	20 PSF 300 LB
CONCENTRATED LOAD APPLIED OVER 2'-6" x 2'-6" AREA.	
REDUCTION OF MINIMUM ROOF LIVE LOAD HAS NOT BEEN UTILIZED.	
4. DEAD LOADS	
CLASSROOM-ADMINISTRATION BUILDING ROOF ALTERNATE NO. 1 - INDOOR FIRING RANGE	25 PSF 66 PSF
5. ROOF SNOW LOAD	
GROUND SNOW LOAD (Pg)	15 PSF
IMPORTANCE FACTOR (I _s)	1.1 (CLASSROOM BLDG), 1.0 (ALTERNATE NO. 1)
EXPOSURE FACTOR (C _e)	1.0
THERMAL FACTOR (C _t)	1.1
FLAT ROOF SNOW LOAD (P _f = 0.7 x C _e x C _t x I _s x P _g)	12.7 PSF (CLASSROOM BLDG), 11.6 PSF (ALT. NO. 1)
MINIMUM P _f FOR P _f = 20 PSF OR LESS	15 PSF
SLOPED ROOF SNOW LOAD (P _s = C _s x P _f)	12.7 PSF (CLASSROOM BLDG), 11.6 PSF (ALT. NO. 1)
6. WIND DESIGN DATA	
ULTIMATE DESIGN WIND SPEED (3 SECOND GUST) NOMINAL DESIGN WIND SPEED (3 SECOND GUST)	120 MPH (CLASSROOM BLDG), 115 MPH (ALT. NO. 1)
EXPOSURE	C
INTERNAL PRESSURE COEFFICIENT (GC _{pi})	0.18 (ENCLOSED)
COMPONENTS AND CLADDING WIND PRESSURE	REFER TO TABLES ON DRAWING S0.0.3 (PER IBC & ASCE7)
ULTIMATE WIND BASE SHEAR	X = 58 KIPS & Y = 143 KIPS
CLASSROOM - ADMINISTRATION BUILDING ALTERNATE NO. 1 - INDOOR FIRING RANGE	X = 34 KIPS & Y = 149 KIPS
7. SEISMIC DESIGN DATA	
SEISMIC DESIGN CATEGORY	B
SEISMIC IMPORTANCE FACTOR (I _s)	1.25 (CLASSROOM BLDG), 1.00 (ALTERNATE NO. 1)
MAPPED SPECTRAL RESPONSE ACCELERATIONS (S _s)	0.156
(S ₁)	0.078
DESIGN SPECTRAL RESPONSE ACCELERATIONS (S _{DS})	0.125
(S ₁)	0.068
CLASSROOM - ADMINISTRATION BUILDING: BASIC SEISMIC FORCE RESISTING SYSTEM:	H. STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE.
RESPONSE MODIFICATION COEFFICIENT (R)	3.0
SYSTEM OVERSTRENGTH FACTOR	3.0
DEFLECTION AMPLIFICATION FACTOR	3.0
SEISMIC RESPONSE COEFFICIENT (C _s)	0.052
DESIGN BASE SHEAR (V = C _s x W)	0.050 W = 53 KIPS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
ALTERNATE NO. 1 - INDOOR FIRING RANGE: BASIC SEISMIC FORCE RESISTING SYSTEM: RESPONSE MODIFICATION COEFFICIENT (R)	A. ORDINARY PRECAST SHEAR WALLS 3.0
SYSTEM OVERSTRENGTH FACTOR	3.0
DEFLECTION AMPLIFICATION FACTOR	2.0
SEISMIC RESPONSE COEFFICIENT (C _s)	0.042
DESIGN BASE SHEAR (V = C _s x W)	0.040 W = 113 KIPS
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE PROCEDURE
8. LATERAL EARTH PRESSURE (EQUIVALENT FLUID PRESSURES)	
SLIDING FRICTION COEFFICIENT	0.25

LEGEND FOR SECTION AND DETAIL MARKS



STRUCTURAL PRECAST CONCRETE

- THE DESIGN OF PRECAST AND PRECAST PRESTRESSED CONCRETE UNITS AND THEIR CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE PRECAST MANUFACTURER. THE PRECAST MANUFACTURER SHALL DESIGN STANDARD UNITS TO SUPPORT THE DEAD LOAD OF THE UNITS PLUS THE SUPERIMPOSED LIVE, DEAD AND LATERAL LOADS INDICATED ON THE DRAWINGS. THE PRECAST MANUFACTURER SHALL DESIGN CONNECTIONS FOR STANDARD UNITS TO TRANSFER ALL LOADS AS INDICATED ON THE DRAWINGS.
- DESIGN, FABRICATION AND CONSTRUCTION OF PRECAST STRUCTURAL UNITS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE. FABRICATION OF METAL INSERTS FOR CONNECTION OF PRECAST UNITS SHALL CONFORM TO THE REQUIREMENTS OF AWS D12.1 "RECOMMENDED PRACTICES FOR WELDING REINFORCING STEEL, METAL INSERTS AND CONNECTIONS IN REINFORCED CONCRETE CONSTRUCTION".
- THE REQUIREMENTS OF UL AND PCI DESIGN REFERENCES INDICATED ON THE FIRE PROTECTION (FP) DRAWINGS SHALL BE MET WHERE THEY ARE MORE STRINGENT THAN THE STRUCTURAL GENERAL NOTES AND CONDITIONS INDICATED ON THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN MINIMUM ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F_{cu}) AS FOLLOWS:

WALLS	5000 PSI
SANDRELS, BEAMS AND COLUMNS	5000 PSI
- REINFORCING:

REINFORCING BARS	ASTM A615, GRADE 60 AND A706
WELDED WIRE FABRIC	ASTM A1064, SHEET TYPE ONLY
PRESTRESSING STRAND	ASTM A416, GRADE 270, SEVEN WIRE COATED STRESS RELIEVED
- CONNECTION DETAILS SHOWN ARE SCHEMATIC. DEVELOP CONNECTIONS TO SUIT THE SPECIFIED LOADS AND TO ACCOUNT FOR THERMAL MOVEMENT AND CREEP OF PRECAST ELEMENTS. DETAIL ALL CONNECTIONS ON THE SHOP DRAWINGS.
- SUBMIT DESIGN CALCULATIONS, SHOP DRAWINGS, AND ERECTION DRAWINGS FOR REVIEW. DESIGN CALCULATIONS, SHOP DRAWINGS, AND ERECTION DRAWINGS SHALL BE SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA.
- COLUMNS AND PRECAST WALL PANELS SHALL BE SHIMMED TO ELEVATION, PLUMBED AND GROUTED WITH NON-SHRINK, NON-METALLIC HIGH STRENGTH GROUT (INCLUDING ANCHOR BOLT POCKETS) BEFORE APPLYING LOADS.
- BLOCKOUTS FOR CONNECTIONS SHALL BE FILLED WITH HIGH-STRENGTH NON-SHRINK, NON-METALLIC GROUT AND FINISHED FLUSH TO MATCH SURROUNDING SURFACE.
- REFER TO SPECIFICATIONS FOR SEALANTS TO BE USED IN EXTERIOR VERTICAL JOINTS, UNLESS OTHERWISE INDICATED. INTERIOR JOINTS SHALL BE GROUTED WITH A NON-SHRINK, NON-METALLIC GROUT AND FINISHED WITH A CONCAVE TOLLEJ JOINT.
- ALL PRECAST CONNECTIONS BELOW GRADE SHALL BE PROTECTED BY A MINIMUM OF 3" INCH CONCRETE COVER OR COVERED WITH TWO COATS OF HEAVY ASPHALTIC PAINT AFTER ERECTION.
- ALL OPENINGS IN PRECAST UNITS SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES FOR SIZE AND LOCATION. OPENINGS LESS THAN 8" IN DIAMETER SHALL BE CUT IN THE FIELD BY THE CONTRACTOR REQUIRING OPENING. HOLES SHALL NOT BE CUT THROUGH STRANDS WITHOUT WRITTEN PERMISSION OF ARCHITECT AND PRECAST MANUFACTURER. SUBJECT TO WRITTEN PERMISSION OF THE ARCHITECT AND PRECAST MANUFACTURER, PRECAST CONCRETE SLABS MAY BE DRILLED FOR FASTENERS FOR SURFACE ATTACHMENT OF SUSPENDED ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL WORK PROVIDED NO CONTACT IS MADE WITH THE PRESTRESSING STEEL. POWDER-ACTUATED FASTENERS SHALL NOT BE USED.
- BLOCKOUTS FOR CONNECTIONS SHALL BE FILLED WITH HIGH-STRENGTH NON-SHRINK, NON-METALLIC GROUT AND FINISHED FLUSH TO MATCH SURROUNDING SURFACE.
- REFER TO SPECIFICATIONS FOR SEALANTS TO BE USED ON EXTERIOR AND INTERIOR VERTICAL JOINTS.

GENERAL

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE (NCBC), 2018 EDITION.
- THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND THE DRAWINGS OF THE OTHER ENGINEERING DISCIPLINES.
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUANTITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- VERIFY AND COORDINATE MECHANICAL UNIT SUPPORTS AND OPENINGS WITH EQUIPMENT PURCHASED FOR THE PROJECT. COORDINATE REQUIREMENTS FOR SLEEVES, HANGERS, INSERTS, ANCHORS AND ALL OTHER ITEMS TO BE SET IN STRUCTURAL WORK.
- SPECIAL INSPECTIONS ARE REQUIRED BY THE NCBC, SECTION 1704-NCBC, SECTION 1704. REFER TO THE STATEMENT OF SPECIAL INSPECTIONS PREPARED FOR THIS PROJECT AND THE PROJECT SPECIFICATIONS FOR SPECIFIC INSPECTION REQUIREMENTS. REFER TO SPECIFICATION SECTION 014000 FOR GENERAL INSPECTION REQUIREMENTS. SPECIAL INSPECTOR SHALL SUBMIT INSPECTION REPORTS IN COMPLIANCE WITH IBC SECTION 1704.2.4. USE OF "GENERAL CONFORMANCE" OR "GENERAL ADEQUACY" IS UNACCEPTABLE.
- CONTRACTOR SHALL CONDUCT PRE-INSTALL MEETINGS ON PROJECT SITE PRIOR TO COMMENCEMENT OF WORK. REFER TO PROJECT SPECIFICATIONS FOR MEETING REQUIREMENTS. MEETINGS WILL BE LED BY GENERAL CONTRACTOR AND ATTENDANCE BY MOSELEY ARCHITECTS IS FOR INFORMATIONAL PURPOSES ONLY.

FOUNDATIONS

- FOUNDATIONS ARE DESIGNED TO BEAR ON ORIGINAL UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL WITH AN ALLOWABLE BEARING CAPACITY OF 2,500 PSF, IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY ESP ASSOCIATES, INC DATED OCTOBER 7, 2022.
- THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY SHALL VERIFY BEARING CAPACITY AND SUITABILITY OF SUBGRADE PRIOR TO PLACING FOUNDATIONS AND GRADE SLABS.
- SELECT AND PLACE CONTROLLED COMPACTED FILL UNDER DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER FOR THE OWNERS TESTING AGENCY. OPEN GRADED OR WASHED CRUSHED STONE, SUCH AS # 57 STONE, IS PROHIBITED AS A BEARING MATERIAL UNDER FOUNDATIONS AND SLABS ON GRADE.
- FOOTING STEPS FOR UNDERSLAB UTILITIES INDICATED ON FOUNDATION PLANS SHALL BE CONSIDERED APPROXIMATE. COORDINATE FOOTINGS WITH ACTUAL LOCATION, SIZE AND INVERT OF ALL UNDERGROUND PIPE (AND CONDUIT). REFER TO "FOOTING STEP" DETAIL TO STEP WALL FOOTING DOWN TO ALLOW UNDERSLAB PIPING TO PASS ABOVE THE FOOTING. ALTERNATELY, REFER TO "FOOTING SLEEP AND" TYPE DETAIL TRENCH BACKFILL AT FOOTING DETAILS TO ALLOW UNDERSLAB PIPING TO PASS BELOW THE TOP OF THE WALL FOOTING.
- AVOID INFLUENCE OF PIPE TRENCH PARALLEL TO WALL FOOTING AND / OR ADJACENT TO COLUMN FOOTING. REFER TO "FOOTING EXCAVATION LIMITS".
- PROTECT FOOTINGS AND GRADE SLABS FROM FROST HEAVE UNTIL BUILDING IS PERMANENTLY ENCLOSED.
- BRACE WALLS PLUMB WHICH ARE SUBJECT TO UNBALANCED BACKFILL UNTIL PERMANENTLY STABILIZED BY STRUCTURE.

CONCRETE

- ALL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- CONCRETE SHALL BE NORMAL WEIGHT AND SHALL OBTAIN ULTIMATE 28 DAY COMPRESSIVE STRENGTHS (F_{cu}) AS FOLLOWS:

BUILDING ELEMENT	DURABILITY REQUIREMENTS CATEGORIES AND CLASSES (NOTE 3)				F _c (psi) 28 DAY STRENGTH	MAX W/C (NOTE 4)	AIR ENTRAINMENT (NOTE 5)	UNIT WEIGHT PCF (NOTE 6)	MAX AGGREGATE (NOTE 7 & 8)	CEMENT (ASTM C150)	CL % (NOTE 10)
	(F)	(S)	(W)	(C)							
SPREAD FOOTINGS AND WALL FOOTINGS	F0	S0	W0	C1	3,500	0.55	N/A	145	1"	II	0.30
INTERIOR SLABS ON GRADE	F0	S0	W0	C0	3,500	0.50	N/A	145	3/4"	I/II	1.00
INTERIOR COLUMNS, WALLS AND PIERS	F0	S0	W0	C0	5,000	0.50	N/A	145	3/4"	I/II	1.00
FLOWABLE FILL	F0	S0	W0	C0	250	N/A	N/A	145	N/A	N/A	1.00
EXTERIOR SLABS ON GRADE	F2	S0	W0	C1	4,500	0.45	6.0	145	3/4"	II	0.30
EXTERIOR COLUMNS, WALLS AND PIERS	F2	S0	W1	C1	5,000	0.45	6.0	145	3/4"	II	0.30
ELEVATED SLABS AND BEAMS	F0	S0	W0	C0	4,000	0.50	N/A	145	3/4"	I/II	1.0
- THE DURABILITY EXPOSURE CLASS IDENTIFIED BY THE ENGINEER OF RECORD, IN ACCORDANCE WITH ACI 318, FOR EACH MIX DESIGN BUILDING ELEMENT AND EXPOSURE CLASS, IS BASED ON ASSUMED SEVERITY OF THE ANTICIPATED EXPOSURE. IF THE CONCRETE IS TO BE INSTALLED IN A LOCATION OR CONDITION THAT IS MORE SEVERE THAN THE EXPOSURE IDENTIFIED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR ADJUST THE CONCRETE MIX REQUIREMENTS AS REQUIRED PER ACI 318.
 - EXPOSURE CATEGORIES:
 - (F) FREEZE/THAW
 - (S) SULFATE
 - (W) WATER/PERMEABILITY
 - (C) CORROSION PROTECTION
 - MAX W/C REFERS TO MAXIMUM WATER TO CEMENTITIOUS MATERIALS RATIO. MIXING WATER SHALL CONFORM TO ASTM C1602.
 - TARGET AIR ENTRAINMENT, ±1.5%.
 - DRY UNIT WEIGHT ±5 PCF. AGGREGATES TO CONFORM TO ASTM C33 FOR NORMAL WEIGHT CONCRETE (NWC) AND ASTM C330 FOR LIGHT WEIGHT CONCRETE (LWC).
 - CONCRETE BUILDING ELEMENTS IDENTIFIED WITH EXPOSURE CATEGORY F3 REQUIRE LIMITATIONS ON CEMENTITIOUS MATERIALS AS FOLLOWS:

CEMENTITIOUS MATERIAL	MAX % OF TOTAL CEMENTITIOUS MATERIALS BY MASS
FLY ASH (ASTM C618)	25
SLAG CEMENT (ASTM C898)	30
SILICA FUME (ASTM C1240)	10
TOTAL FLY ASH, OTHER POZZOLANS AND SILICA FUME	35
TOTAL FLY ASH, OTHER POZZOLANS, SILICA FUME AND SLAG	40
 - REQUIRED COMPRESSIVE STRENGTH OF STRUCTURAL PRECAST CONCRETE SHALL BE DETERMINED BY THE PRECAST CONCRETE MANUFACTURER'S ENGINEER, WITH THE MINIMUM COMPRESSIVE STRENGTH AS NOTED IN THE TABLE.
 - COMBINED AGGREGATE GRADING SHALL BE AS FOLLOWS:

FOR COARSE AGGREGATE WITH 1 1/2" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 18% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.	
FOR COARSE AGGREGATE WITH 3/4" OR 1" NOMINAL MAXIMUM AGGREGATE SIZE, 8% TO 22% (BY WEIGHT) OF AGGREGATE SHALL BE RETAINED ON EACH SIEVE BELOW THE MAXIMUM AGGREGATE SIZE SIEVE AND ABOVE THE #100 SIEVE.	
 - MAX WATER SOLUBLE CHLORIDE ION CONTENT PERCENTAGE, BY WEIGHT OF CEMENT:

CONCRETE MIXTURE PROPORTIONS SHALL BE ESTABLISHED IN ACCORDANCE WITH ARTICLE 4.2.3 OF ACI 301 OR BY AN ALTERNATIVE METHOD ACCEPTABLE TO THE ENGINEER OF RECORD. EACH MIX DESIGN SHALL IDENTIFY THE INTENDED LOCATION OF USE.	
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 - ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED.
 - REINFORCING STEEL SHALL BE AS FOLLOWS:

REINFORCING BARS:	ASTM A615, GRADE 60, DEFORMED
WELDED WIRE FABRIC:	ASTM A1064, SHEET TYPE ONLY
WELDABLE REINFORCING BARS:	ASTM A706 LOW ALLOW STEEL REINFORCING BARS, DEFORMED
DEFORMED BAR ANCHORS (DBA)	ASTM A1064, DEFORMED
WELDING PER AWS D1.4 STRUCTURAL WELDING CODE - REINFORCING STEEL	
 - MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE UNO:

A. UNFORMED SURFACE CAST AGAINST EARTH	3 IN
B. FORMED SURFACE EXPOSED TO EARTHWEATHER	2 IN
C. FORMED SLABS AND WALLS NOT EXPOSED TO EARTHWEATHER FOR #11 AND SMALLER BAR	3/4 IN
D. FORMED SURFACE ELEMENTS NOT EXPOSED TO EARTHWEATHER	1 1/2 IN
 - REFER TO DRAWING S3.0.1 FOR REINFORCING BAR LAP LENGTHS.
 - PROVIDE ENGINEER DESIGN OF ALL TILT-UP CONCRETE WALL PANELS, AND SUBMIT DESIGN CALCULATIONS, ERECTION DRAWINGS AND DETAIL DRAWINGS TO THE TILT-UP CONCRETE WALL DESIGN AND THE ARCHITECT. TILT-UP CONCRETE WALLS MAY BE DRILLED FOR FASTENERS FOR SURFACE ATTACHMENT OF SUSPENDED ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL WORK PROVIDED NO CONTACT IS MADE WITH REINFORCING STEEL. POWDER-ACTUATED FASTENERS SHALL NOT BE USED.
 - BLOCKOUTS FOR CONNECTIONS SHALL BE FILLED WITH HIGH-STRENGTH NON-SHRINK, NON-METALLIC GROUT AND FINISHED FLUSH TO MATCH SURROUNDING SURFACE.
 - REFER TO SPECIFICATIONS FOR SEALANTS TO BE USED ON EXTERIOR AND INTERIOR VERTICAL JOINTS.

FLOWABLE FILL

- CONTROLLED LOW STRENGTH MATERIAL (CLSM), ALSO REFERRED TO AS FLOWABLE FILL, MAY BE SUBMITTED FOR APPROVAL AS A SUBSTITUTE FOR COMPACTED FILL AT FOUNDATION FOOTING LOCATIONS. THE CLSM MIXTURE SHALL BE PROPORTIONED TO PRODUCE AN UNCONFINED COMPRESSIVE STRENGTH OF 100 PSI MINIMUM TO 300 PSI MAXIMUM.

STEEL JOISTS

- ALL STEEL JOIST WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL JOIST INSTITUTE (SJI) STANDARD SPECIFICATIONS.
- STEEL JOISTS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN (ASD), AND SHALL BE MANUFACTURED WITH STEEL HAVING A MINIMUM YIELD STRENGTH OF 50 KSI.
- PROVIDE JOIST BRIDGING IN ACCORDANCE WITH SJI SPECIFICATIONS, OSHA REQUIREMENTS, AND AS REQUIRED BY JOIST DESIGN.
- ROOF JOISTS AND BRIDGING SHALL BE DESIGNED FOR UPLIFT LOADS INDICATED ON ROOF WIND PRESSURE DIAGRAM.
- SPECIAL JOISTS, INDICATED "SP" ON FRAMING PLANS, SHALL BE DESIGNED FOR CRITERIA INDICATED.
- DETAILING AND ERECTION OF OPEN WEB STEEL JOISTS SHALL COMPLY WITH OSHA REQUIREMENTS.
- STEEL ROOF JOISTS SHALL BE PROVIDED WITH NO CAMBER.
- DESIGN ALL K AND KCS JOISTS FOR A 500 LB CONCENTRATED LOAD (SERVICE LOAD) AT ANY ONE PANEL POINT ALONG THE JOIST, UNLESS NOTED OTHERWISE. DESIGN ALL LH JOISTS FOR A 750 LB CONCENTRATED LOAD AT ANY ONE PANEL POINT ALONG THE JOIST, UNLESS NOTED OTHERWISE. THIS IS REFERRED TO AS AN "ADD-LOAD".
- K SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 200 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND CHECK".
- KCS SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 500 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND CHECK".
- LH SERIES JOISTS SHALL BE DESIGNED FOR ADDITIONAL BENDING STRESSES RESULTING FROM A 750 POUND CONCENTRATED DEAD LOAD LOCATED AT ANY LOCATION ALONG TOP AND BOTTOM CHORD IN ADDITION TO ALL OTHER LOADS. THIS IS REFERRED TO AS A "BEND CHECK".
- REFER TO "TYPICAL CONCENTRATED LOAD ON STEEL JOIST" DETAIL FOR REQUIREMENTS REGARDING PIPE HANGERS AND OTHER EQUIPMENT LOADS.
- STEEL JOISTS EXPOSED TO WEATHER IN THE FINISHED WORK SHALL BE PAINTED WITH A ZINC RICH PRIMER PAINT THAT MEETS THE REQUIREMENTS OF ASTM D 520 TYPE III.
- COORDINATE SUPPORT OF SPRINKLER PIPING, INCLUDING MAINS, WITH JOIST MANUFACTURER. SPRINKLER MANUFACTURER SHALL OBTAIN A LETTER FROM THE JOIST MANUFACTURER VERIFYING THAT THE PIPE HANGER LOCATION AND LOADS HAVE BEEN PROVIDED FOR THEIR USE. THIS LETTER SHALL BE SUBMITTED TO THE ARCHITECT WITH THE SPRINKLER SUBMITTAL PACKAGE. IF LOCATIONS OF THE MAINS ARE ALTERED FROM THE INFORMATION PROVIDED BY THE SPRINKLER MANUFACTURER TO THE JOIST MANUFACTURER, ADDITIONAL FRAMING SHALL BE ADDED TO PROVIDE ADEQUATE SUPPORT FOR THE PIPING LOADS AT NO COST TO THE OWNER.

FIBER REINFORCING

- SYNTHETIC MACRO-FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB ON GRADE. SYNTHETIC FIBERS SHALL CONFORM TO ASTM C1116 TYPE III, 1 TO 1/4 INCH LONG. STEEL FIBER REINFORCING MAY BE SUBSTITUTED FOR WELDED WIRE FABRIC IN SLAB ON GRADE. STEEL FIBERS SHALL BE TYPE II, "F" LONG, CONTINUOUSLY DEFORMED, WITH AN ASPECT RATIO OF 43.
- DOSAGE RATE SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.
- FIBER SHALL BE ADDED AT THE CONCRETE BATCH PLANT.
- FIBER SHALL BE INCLUDED IN THE CONCRETE MIX DESIGNS SUBMITTED FOR REVIEW.

STEEL DECK

- ALL STEEL DECK WORK SHALL CONFORM TO THE LATEST EDITION OF THE STEEL DECK INSTITUTE (SDI) DESIGN MANUAL FOR COMPOSITE DECKS, FORM DECKS AND ROOF DECKS, AND AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS".
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL".
- PERMANENT LOADS SHALL NOT BE SUSPENDED FROM STEEL ROOF DECK UNLESS APPROVED BY ENGINEER OF RECORD.
- STEEL DECK UP TO 2" DEEP SHALL BE INSTALLED WITH A MINIMUM OF 3 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. STEEL DECK SHALL BE INSTALLED WITH A MINIMUM OF 2 CONTINUOUS SPANS, UNLESS NOTED OTHERWISE. ANY LOCATIONS NOT MEETING THESE CONDITIONS SHALL BE SPECIFICALLY IDENTIFIED ON THE STEEL DECK SHOP DRAWINGS.
- REFER TO "STEEL DECK SCHEDULE" FOR DECK TYPES AND FASTENING REQUIREMENTS.
- STRUCTURAL STEEL SHALL COMPLY WITH THE FOLLOWING SPECIFICATIONS:

WIDE FLANGE SHAPES AND ANGLES	ASTM A992 (FY=50 KSI)
MISCELLANEOUS SHAPES, PLATES & BARS (TO 8" THICK)	ASTM A36 (FY=36 KSI)
HOLLOW STRUCTURAL SECTIONS (HSS)	
ROUND	ASTM A500, GRADE C (FY=50 KSI)
HIGH STRENGTH BOLTS (CONVENTIONAL)	ASTM A500 GRADE C (FY=46 KSI)
WASHERS	ASTM F436 (FLAT AND BEVELED)
HEAVY HEX NUTS	ASTM A563
WIST OFF TENSION CONTROL BOLTS	ASTM F1554 GRADE F1552 OR F2280 (TYPE 1)
COMPRESSIBLE WASHER DIRECT TENSION INDICATORS	ASTM F959 (TYPE 325 OR 490)
ANCHOR RODS	ASTM F1554, GRADE 55 INCLUDE SUPPLEMENT S1
WELDING ELECTRODES	E70 LOW HYDROGEN
HEADED STEEL STUDS	AWS D1.1 CLAUSE 9, TYPE B (FY=51 KSI)
THREADED ROD	ASTM A36
CLEAVES	AISI C-1005, ASTM A668, CLASS A
TURNBUCKLES	AISI C-1005, ASTM A668, CLASS C

- UNLESS NOTED OTHERWISE, CONNECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISI MANUAL OF

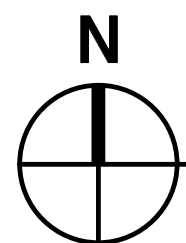
SCHEDULE OF SPECIAL INSPECTIONS

Inspections & Testing	Continuous Periodic	Y / N	Reference Standard or Compliance Document	Agent
Inspection Agents				
1. Special Inspection Engineer of Record: TBD				
2. Inspection and Testing Agency: TBD				
3. Steel Fabricator's Quality Control Inspector: TBD				
4. Structural Engineer of Record: MOSELEY ARCHITECTS				
5. Mechanical Engineer of Record: MOSELEY ARCHITECTS				
6. Electrical Engineer of Record: MOSELEY ARCHITECTS				
7. Smoke Control Inspector: TBD				
1704.2.4 Report Requirement				
Special inspector to keep record of special inspections and furnish inspection reports to the building official and to the Registered Design Professional in responsible charge.	●	Y	IBC 1704.2.4	1
1704.2.5 Inspection of Fabricated Items				
Work done in fabricator shop requires inspection unless the fabricator is registered and approved in accordance with 1704.2.5.1. Where fabricator is approved, provide fabricator certification document .	●	Y	1704.2.5	3
At completion of fabrication, submit certificate of compliance to building official stating the work was performed in accordance with the approved construction documents.	●	Y	1704.2.5.1	1
1704.4 Contractor Responsibility				
Each contractor responsible for the construction of a main wind- or seismic force resisting system, designated seismic system or a wind- or seismic resisting component listed in the statement of special inspections shall submit a written statement of responsibility.	●	Y	1704.4	-
1704.5 Submittals to the Building Official				
Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approved fabricator in accordance with Section 1704.2.5.1	●	Y	1704.5 1704.2.5.1	3,4
Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2	●	N	1704.5 1705.13.2	3,4
Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3	●	N	1704.5 1705.13.3	3,4
Reports of preconstruction tests for shotcrete in accordance with Section 1908.5	●	N	1704.5, 1908.5	2,4
Certificates of compliance for open web steel joist and joist girders in accordance with Section 2207.5	●	Y	1704.5, 2207.5	3,4
Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 20.5.4, or ACI 318 for reinforcing bar in concrete complying with a standard other than ASTM A 706 that are to welded	●	N	1704.5, AWS D1.4 20.5.4 or ACI 318 ASTM A 706	2,4
Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E, or F	●	N	1704.5 20.2.2.5 of ACI 318 ASTM A 615	3,4
1704.6 Structural Observation				
The owner shall employ a registered design professional to perform structural observation. Prior to commencement of observation, the structural observer shall submit to the building official a written statement identifying frequency and extent of structural observations.			1704.6	
Seismic	●	N	1704.6.1	4
Wind	●	N	1704.6.2	4
1705.2 Steel Construction				
Structural steel inspections and non-destructive testing shall be in accordance with the quality assurance inspection requirements of AISC 360-10			1705.2.1 AISC 360-10	
Prior to Welding (AISC 360-10 Table N5.4-1)				
Welding procedure specifications (WPSs) available	●	Y	AISC 360-10 Table N5.4-1	1,4
Manufacturer certifications for welding consumables	●	Y		1,4
Material identification (type/grade)	●	Y		3,4
Welder identification system	●	Y		3,4
Fit-up of groove welds (including joint geometry)	●	Y		2,3
a. Joint preparation				
b. Dimensions (Alignment, root open, root face, bevel)				
c. Cleanliness (Condition of steel surfaces)				
d. Tackling (tack weld quality and location)				
e. Backing type and fit (if applicable)				
Configuration and finish of access holes	●	Y		3
Fit-up of fillet welds	●	Y		2,3
a. Dimensions (Alignment, root open, root face, bevel)				
b. Cleanliness (Condition of steel surfaces)				
c. Tackling (tack weld quality and location)				
During Welding (AISC 360-10 Table N5.4-2)				
Use of qualified welders	●	Y	AISC 360-10 Table N5.4-2	1,2
Control and handling of welding consumables	●	Y		2
a. Packaging				
b. Exposure control				
No welding over cracked tack welds	●	Y		2
Environmental conditions	●	Y		2
a. Wind speed within limits				
b. Precipitation and temperature	●	Y		2
WPS followed				
a. Settings on welding equipment				
b. Travel speed				
c. Selected welding materials				
d. Shielding gas type/flow rate				
e. Preheat applied				
f. Interpass temperature maintained (min/max)				
g. Proper position (F, V, H, OH)				
h. Interfix of filler metals avoided unless approved				
Welding techniques	●	Y		2
a. Interpass and final cleaning				
b. Each pass with profile limitations				
c. Each pass meets quality requirements				
After Welding (AISC 360-10 Table N5.4-3)				
Welds cleaned	●	Y	AISC 360-10 Table N5.4-3	1,2
Size, length, and location of welds	●	Y		1,2
Welds meet visual acceptance criteria	●	Y		1,2
a. Crack prohibition				
b. Weldbase-metal fusion				
c. Crater cross section				
d. Weld profiles				
e. Weld size				
f. Undercut				
g. Porosity				
Arc strikes	●	Y		1,2
k-area	●	Y		2
Backing removed and weld tabs removed (if required)	●	Y		2
Repair activities	●	Y		1,4
Document acceptance or rejection of welded joint or member	●	Y		
Placement of reinforcing or contouring fillet welds (if required) (ref: AISC 341-10)	●	N		2
Backing removed, weld tabs removed and finished, and fillet welds added (if required) (ref: AISC 341-10)	●	N		2

Inspections & Testing	Continuous Periodic	Y / N	Reference Standard or Compliance Document	Agent
Nondestructive Testing (AISC 360-10 Section N5.5)				
Risk Category I Structures - Perform Ultrasonic Testing on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading, in materials 5/16 inches thick or greater.	●	N	AISC 360-10 Section N5.5	1,2
Risk Category III or IV Structures - Perform Ultrasonic Testing on all CJP groove welds subject to transversely applied tension loading in butt, T- and corner joints subject to transversely applied tension loading, in materials 5/16 inches thick or greater.	●	Y		1,2
Access holes - Perform Magnetic Particle Testing or Liquid Penetrate Testing when the flange thickness exceeds 2 inches for rolled shapes, or when the web thickness exceeds 2 inches for built-up shapes.	●	Y		1,2
Welded Joints Subject to Fatigue	●	N		1,2
Nondestructive Testing (AISC 341-10 Section J6.2)				
k-area	●	N	AISC 341-10 Section J6.2	2
CJP Groove weld	●	N		2
Lamellar tearing	●	N		2
Beam cope and access hole	●	N		2
Reduced beam section repair	●	N		2,4
Weld tab removal	●	N		2
Prior to Bolting (AISC 360-10 Table N5.6-1)				
Manufacturer's certifications available for fastener materials	●	Y	AISC 360-10 Section N5.6-1	3,4
Fasteners marked in accordance with ASTM requirements	●	Y		3,4
Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded for shear plane)	●	Y		3,4
Proper bolting pattern selected for joint detail	●	Y		2,4
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	●	Y		2,4
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used (Not required for snug tight bolts)	●	Y		1,2
Proper storage provided for bolts, nuts, washers and other fastener components	●	Y		1,2
During Bolting (AISC 360-10 Table N5.6-2)				
These inspections are not required for snug-tight joints. These inspections are not required for pretensioned joints and slip-critical joints, when the installer is using the turn-of-nut method with matchmarking techniques, the direct-tension-indicator method, or the twist-off-type tension control bolt method.				
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	●	Y	AISC 360-10 Section N5.6-2	2
Joint brought to the snug-tight condition prior to pretensioning operation	●	Y		2
Fastener component not turned by the wrench prevented from rotating	●	Y		2
Fasteners are pretensioned in accordance with the RCSC specification, progressing systematically from the most rigid point toward the free edges	●	Y		1,2
After Bolting (AISC 360-10 Table N5.6-3)				
Document acceptance or rejection of bolted connections	●	Y	AISC 360-10 Table N5.6-3	1,2
Other Inspection Tasks (AISC 360-10 Section N5.7)				
Verify compliance of fabricated steel with the details shown on the approved shop drawings	●	Y	AISC 360-10 Section N5.6-7	1,2
Verify compliance of the erected steel frame with the details shown on the approved erection drawings, including braces, stiffeners, member location and joint details	●	Y		1,2
Anchor rods and other embedment supporting structural steel	●	Y		1,2
a. Verify the diameter, grade, type and length of the anchor rod or embedded item				
b. Verify the extent or depth of embedment into the concrete				
RBS requirements, if applicable (ref: AISC 341-10)				
a. Contour and finish	●	N		1,2
b. Dimensional tolerances				
Protected zone - no holes and unapproved attachments made by fabricator or erector, as applicable (ref: AISC 341-10)	●	N		2
H-Piles - Protected zone - no holes and unapproved attachments made by the responsible contractor, as applicable (ref: AISC 341-10)	●	N		4
1705.2.2 Cold-Formed Steel Deck				
Special inspections in accordance with QA/QC-2011 Standard for Quality control and Quality assurance for installation of steel deck	●	Y	1705.2.2	4
1705.2.3 Open-Web Steel Joists and Joist Girders				
Installation of open-web steel joists and joist girders	●	Y	Table 1705.2.3	1,2
a. End connections - welding or bolted				
b. Bridging - horizontal or diagonal				
i. Standard bridging				
ii. Bridging that differs from the SJI specifications listed in section 2207				
Inspection of Composite Structures Prior to Concrete Placement (AISC 341-10 Table J9-1)				
Prior to Concrete Placement (AISC 360-10 Table N6-1)				
Placement and installation of steel deck	●	N	AISC 360-10 Table N6-1	1,2
Placement and installation of steel headed stud anchors	●	N		1,2
Document acceptance or rejection of stud elements	●	N		1
Prior to Concrete Placement (AISC 341-10 Table J9-1)				
Material identification of reinforcing steel (Type/Grade)	●	N	AISC 341-10 Table J9-1	1,2
Determination of carbon equivalent for reinforcing steel other than ASTM A706	●	N		2
Proper reinforcing steel size, spacing and orientation	●	N		1,2
Reinforcing steel has not been rebar in the field	●	N		2
Reinforcing steel has been tied and supported as required	●	N		2
Required reinforcing steel clearances have been provided	●	N		2
Composite member has required size	●	N		2
During Concrete Placement (AISC 341-10 Table J9-2)				
Concrete: Material identification (mix design, compressive strength, maximum large aggregate size, maximum slump)	●	N	AISC 341-10 Table J9-2	2
Limits on water added at the truck or pump	●	N		2
Proper placement techniques to limit segregation	●	N		2
After Concrete Placement (AISC 341-10 Table J9-3)				
Achievement of minimum specified concrete compressive strength at specified age	●	N	AISC 341-10 Table J9-3	2
1705.2.4 Cold-Formed Steel Trusses Spanning 60-feet or Greater				
Verify temporary installation restraint/bracing installed in accordance with the approved shop drawings	●	N	Table 1705.2.4	1,4
Verify permanent individual truss member restraint/bracing installed in accordance with the approved shop drawings	●	N		1,2

Inspections & Testing	Continuous Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.3 Concrete Construction				
Inspect reinforcing steel, including prestressing tendons, and verify placement.	●	Y	Table 1705.3	2
Inspect reinforcing steel welding in accordance with steel construction section above	●	Y		2
Inspect anchors cast in concrete	●	Y		2
Inspect anchors post-installed in hardened concrete members	●	Y		1,2
Verify use of approved design mix	●	Y		2
Prior to placement fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete	●	Y		2
Inspect concrete and shotcrete placement for proper application techniques	●	Y		2
Inspect for maintenance of specified curing temperature and techniques	●	Y		2
Inspect prestressed concrete for:				1,2
a. Application of prestressing forces	●	Y		
b. Grouting of bonded prestressing tendons in the seismic force-resisting system	●	Y		
Inspect erection of precast structural members	●	Y		1,2
Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs	●	Y		2
Inspect formwork for shape, location and dimensions of the concrete member being formed	●	Y		1,2
1705.4 Masonry Construction				
Inspect masonry construction in accordance with 1705.4 and TMS 602-13/ACI 530.1-13/ASCE 6-13 Article 1.6			TMS 602-13/ACI 530.1-13 ASCE 6-13 Article 1.6	1,2
Level A Quality Assurance (Table 3)				
Prior to construction verify certificates of compliance	●	Y		4
Level B Quality Assurance (Table 4)				
Test as follows:				
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout	●	Y		2
Verify f'm and f'ac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction	●	Y		2
Inspections as follows:				
Verify compliance with the approved submittals and project specifications	●	Y		4
At the start of masonry construction, verify:				
a. Proportions of site-prepared mortar	●	Y		2
b. Construction of mortar joints	●	Y		2
c. Grade and size of prestressing tendons and anchorages	●	N		2
d. Location of reinforcement, connectors, prestressing tendons and anchorages	●	Y		2
e. Prestressing technique	●	N		2
f. Properties of thin-bed mortar for AAC masonry. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	N		2
Prior to grouting, verify:				
a. Grout space is clean	●	Y		2
b. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	●	Y		2
c. Placement of reinforcing and connectors, and prestressing tendons and anchorages	●	Y		2
d. Proportions of site-prepared grout and prestressing grout for bonded tendons	●	Y		2
e. Construction of mortar joints	●	Y		2
During masonry construction, verify:				
a. Size and location of structural members	●	Y		1,2
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	●	Y		1,2
c. Welding of reinforcement	●	Y		1,2
d. Preparation, construction and protection of masonry during cold weather (Temperature below 40°F) or hot weather (Temperature above 90°F)	●	Y		2
e. Application and measurement of prestressing force	●	N		2
f. Placement of grout and prestressing grout for bonded tendons is in compliance	●	Y		2
g. Placement of AAC masonry units and construction of thin-bed mortar joints. (Continuous inspection is required for the first 5000 square feet of AAC masonry. Periodic inspection is required after the first 5000 square feet of AAC masonry.)	●	N		2
Observe preparation of grout specimens, mortar specimens and/or prisms	●	Y		2
Level C Quality Assurance (Table 5)				
Tests as follows:				
Verify f'm and f'ac in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.4B prior to construction, and for every 5000 square feet during construction	●	N		2
Verify proportions of materials in premixed or pre-blended mortar, prestressing grout and grout other than self-consolidation grout as delivered to the project site	●	N		2
Verify slump flow and Visual Stability Index (VSI) as delivered to the project site in accordance with TMS 602-13/ACI 530.1-13/ASCE 6-13 Specification Article 1.5B.1.b.3 for self-consolidation grout	●	N		2
Tests as follows:				
Verify compliance with approved submittals and project specifications	●	N		1,4
Verify:				
a. Proportions of site-prepared mortar, grout and prestressing grout for bonded tendons	●	N		2
b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	●	N		2
c. Placement of masonry units and construction of mortar joints	●	N		2
d. Placement of reinforcement, connectors and prestressing tendons and anchorages	●	N		2
e. Grout space prior to grouting	●	N		2
f. Placement of grout and prestressing grout for bonded tendons	●	N		2
g. Size and location of structural elements	●	N		2
h. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames and other construction	●	N		2
i. Welding of reinforcement	●	N		2
j. Preparation, construction, and protection of masonry during cold weather (Temperature below 40°F) or hot weather (Temperature above 90°F)	●	N		2
k. Application and measurement of prestressing force	●	N		2
l. Placement of AAC masonry units and construction of thin-bed mortar joints	●	N		2
m. Properties of thin-bed mortar for AAC masonry	●	N		2
Observe preparation of grout specimens, mortar specimens and/or prisms	●	N		2

Inspections & Testing	Continuous Periodic	Y / N	Reference Standard or Compliance Document	Agent
1705.5 Wood Construction				
Inspect prefabricated wood structural elements in accordance with Section 1704.2.5	●	N	1705.5	1
High load diaphragms:	●	N	1705.11 High wind and Seismic areas	1,2
a. Verify sheathing grade and thickness				
b. Verify nominal size of framing members and adjoining panel edges				
c. Verify nail or staple diameter and length				
d. Verify number of fastener lines				
e. Verify spacing between fasteners in each line and at panel edges				
Shearwalls:	●	N		1,2</

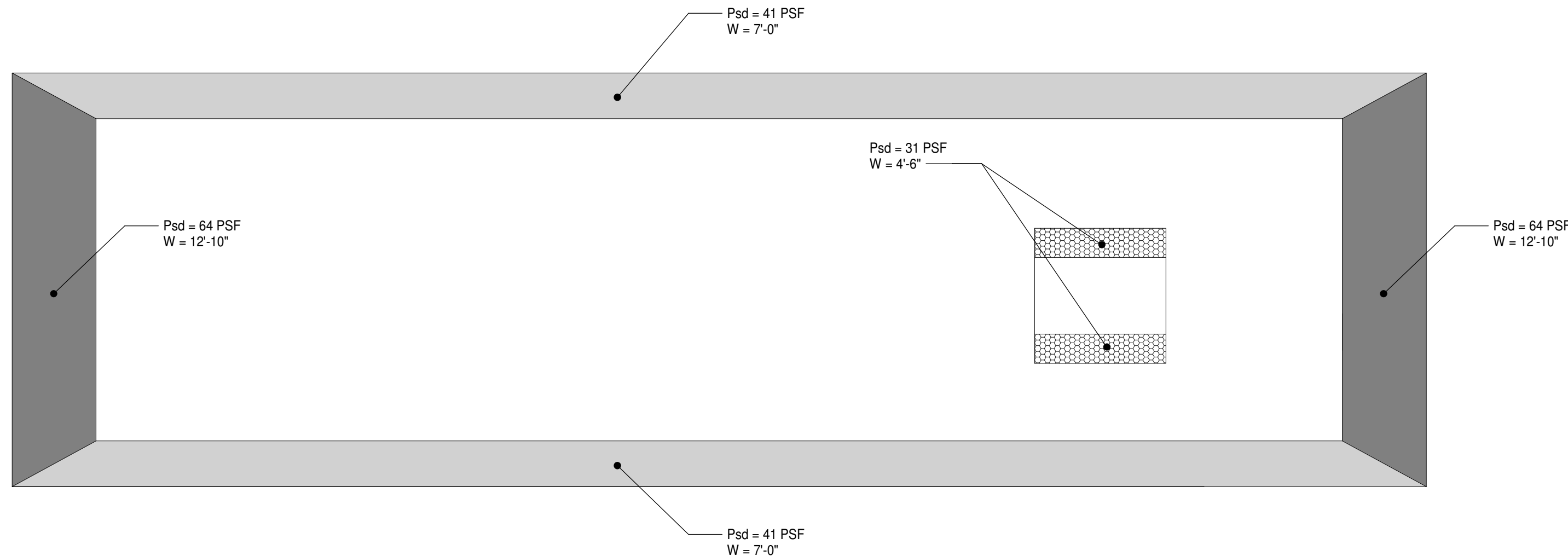


ALT NO. 1 - INDOOR FIRING RANGE BLDG - ROOF SNOW LOAD DIAGRAM

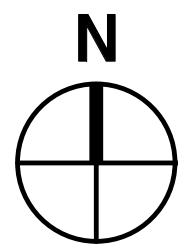
1/16" = 1'-0"

INDOOR FIRING RANGE BUILDING - ROOF SNOW DRIFT LOAD DIAGRAM - NOTES:

- BALANCE SNOW LOAD IS 11.6 PSF.
- SNOW DRIFT LOAD IS IN ADDITION TO BALANCED SNOW LOAD.
- REFER TO NOTE 5 ON DRAWING S2.1.2.
- DRIFT LOADS ARE MAX AGAINST PARAPET WALLS AND ROOF TOP UNITS. DRIFT LOADS SLOPE UNIFORMLY TO BALANCED SNOW PSF AT "W" DISTANCE AWAY FROM WALL OR RTU.



GROSS WIND PRESSURE - INDOOR FIRING RANGE BUILDING						
ZONE	AREA ≤ 10 FT²	10 FT² < AREA ≤ 20 FT²	20 FT² < AREA ≤ 50 FT²	50 FT² < AREA ≤ 100 FT²	100 FT² < AREA ≤ 200 FT²	200 FT² < AREA ≤ 500 FT²
1	+8 PSF / -20 PSF	+8 PSF / -19 PSF	+7 PSF / -19 PSF	+7 PSF / -18 PSF	+7 PSF / -18 PSF	+7 PSF / -18 PSF
2	+18 PSF / -33 PSF	+17 PSF / -30 PSF	+16 PSF / -25 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
3	+18 PSF / -33 PSF	+17 PSF / -30 PSF	+16 PSF / -25 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
4	+18 PSF / -20 PSF	+17 PSF / -19 PSF	+16 PSF / -18 PSF	+16 PSF / -17 PSF	+15 PSF / -16 PSF	+14 PSF / -15 PSF
5	+18 PSF / -24 PSF	+17 PSF / -23 PSF	+16 PSF / -21 PSF	+16 PSF / -19 PSF	+15 PSF / -17 PSF	+14 PSF / -15 PSF
4PW	+19 PSF / -34 PSF	+18 PSF / -30 PSF	+17 PSF / -26 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
4PL	+19 PSF / -20 PSF	+18 PSF / -19 PSF	+17 PSF / -18 PSF	+16 PSF / -18 PSF	+15 PSF / -17 PSF	+14 PSF / -16 PSF
5PW	+19 PSF / -51 PSF	+18 PSF / -42 PSF	+17 PSF / -31 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
5PL	+19 PSF / -25 PSF	+18 PSF / -23 PSF	+17 PSF / -21 PSF	+16 PSF / -19 PSF	+15 PSF / -18 PSF	+14 PSF / -16 PSF



ALT NO. 1 - INDOOR FIRING RANGE - ROOF WIND PRESSURE DIAGRAM

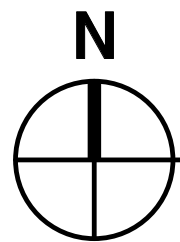
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INDOOR FIRING RANGE BUILDING - ROOF WIND PRESSURE DIAGRAM - NOTES:

- SEE CLASSROOM BUILDING - ROOF WIND PRESSURE DIAGRAM NOTES.



GROSS WIND PRESSURE - CLASSROOM BUILDING						
ZONE	AREA ≤ 10 FT²	AREA ≤ 20 FT²	AREA ≤ 50 FT²	AREA ≤ 100 FT²	AREA ≤ 200 FT²	AREA ≤ 500 FT²
1	+10 PSF / -20 PSF	+10 PSF / -19 PSF	+10 PSF / -18 PSF	+10 PSF / -18 PSF	+10 PSF / -18 PSF	+10 PSF / -18 PSF
2	+18 PSF / -32 PSF	+17 PSF / -29 PSF	+16 PSF / -25 PSF	+15 PSF / -21 PSF	+15 PSF / -21 PSF	+14 PSF / -21 PSF
3	+18 PSF / -32 PSF	+17 PSF / -29 PSF	+16 PSF / -25 PSF	+15 PSF / -21 PSF	+15 PSF / -21 PSF	+14 PSF / -21 PSF
4	+18 PSF / -19 PSF	+17 PSF / -19 PSF	+16 PSF / -18 PSF	+15 PSF / -17 PSF	+15 PSF / -16 PSF	+14 PSF / -15 PSF
5	+18 PSF / -24 PSF	+17 PSF / -22 PSF	+16 PSF / -20 PSF	+15 PSF / -19 PSF	+15 PSF / -17 PSF	+14 PSF / -15 PSF
4PW	+19 PSF / -34 PSF	+18 PSF / -30 PSF	+17 PSF / -26 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
4PL	+19 PSF / -20 PSF	+18 PSF / -19 PSF	+17 PSF / -18 PSF	+16 PSF / -18 PSF	+15 PSF / -17 PSF	+14 PSF / -16 PSF
5PW	+19 PSF / -34 PSF	+18 PSF / -30 PSF	+17 PSF / -26 PSF	+16 PSF / -22 PSF	+15 PSF / -22 PSF	+14 PSF / -22 PSF
5PL	+19 PSF / -20 PSF	+18 PSF / -19 PSF	+17 PSF / -18 PSF	+16 PSF / -18 PSF	+15 PSF / -17 PSF	+14 PSF / -16 PSF



CLASSROOM BUILDING - ROOF WIND PRESSURE DIAGRAM

1/16" = 1'-0"

CLASSROOM BUILDING - ROOF WIND PRESSURE DIAGRAM - NOTES:

- PRESSURES INDICATED ARE FOR ALLOWABLE STRESS DESIGN PER ASCE 7.
- EFFECTIVE WIND AREA SHALL BE DETERMINED IN ACCORDANCE WITH ASCE 7.
- ROOF IS ZONE 1, UNLESS NOTED OTHERWISE.
- ZONE 2 IS INDICATED BY:
- ZONE 3 IS INDICATED BY:
- (+) INDICATES PRESSURES ACTING TOWARDS ROOF (INWARDS).
(-) INDICATES PRESSURES ACTING AWAY FROM ROOF (OUTWARDS).
- ROOF DEAD LOAD SHALL BE TAKEN AS 10 PSF FOR UPLIFT RESISTANCE.



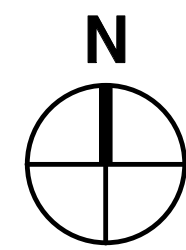
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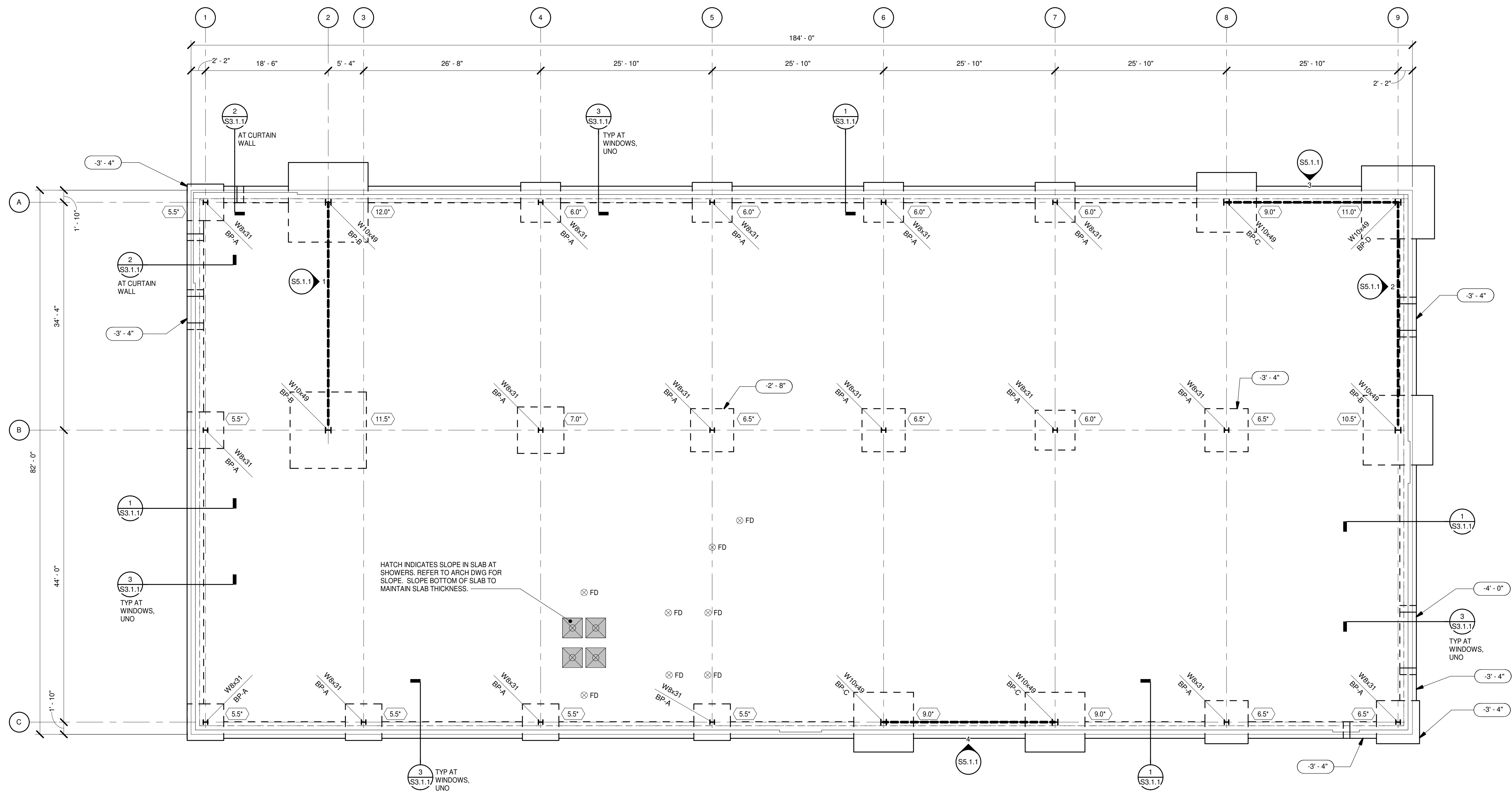


CLASSROOM BUILDING FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 633.50' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 4x4-W2.9xW2.9 WWF (AT 1" FROM TOP OF SLAB) OVER VAPOR BARRIER OVER 6" GRANULAR BASE COURSE, UNO.
3. BASE COURSE SHALL BE A CLEAN, DENSELY-GRADED "CRUSHER RUN" MATERIAL WITH A BALANCED FINE CONTENT, SUCH AS MCDOT ABC STONE. THE BASE COURSE SHALL BE COMPACTED AND SHALL BE FINISHED TO A FLAT, SMOOTH, LOW FRICTION SURFACE. COMPACTION SHALL BE MONITORED BY THE ON-SITE TESTING AGENCY. OPEN GRADED STONE, SUCH AS #57 STONE, IS NOT ACCEPTABLE.
4. TOP OF ALL FOOTINGS SHALL BE (-2'-0"), UNO.
5. ALL WALL FOOTINGS SHALL BE WF2.5, UNO.
6. COORDINATE FOOTING STEPS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
7. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
8. REFER TO DRAWINGS S3.0.1 AND S3.0.2 FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES.
9. FOR FIRE HOUSE PUMP FOUNDATION, REFER TO "EXTERIOR EQUIPMENT PAD" DETAIL ON DRAWING S3.0.2.



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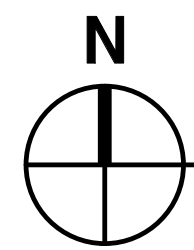
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FOUNDATION PLAN -
CLASSROOM BUILDING

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S1.1.1

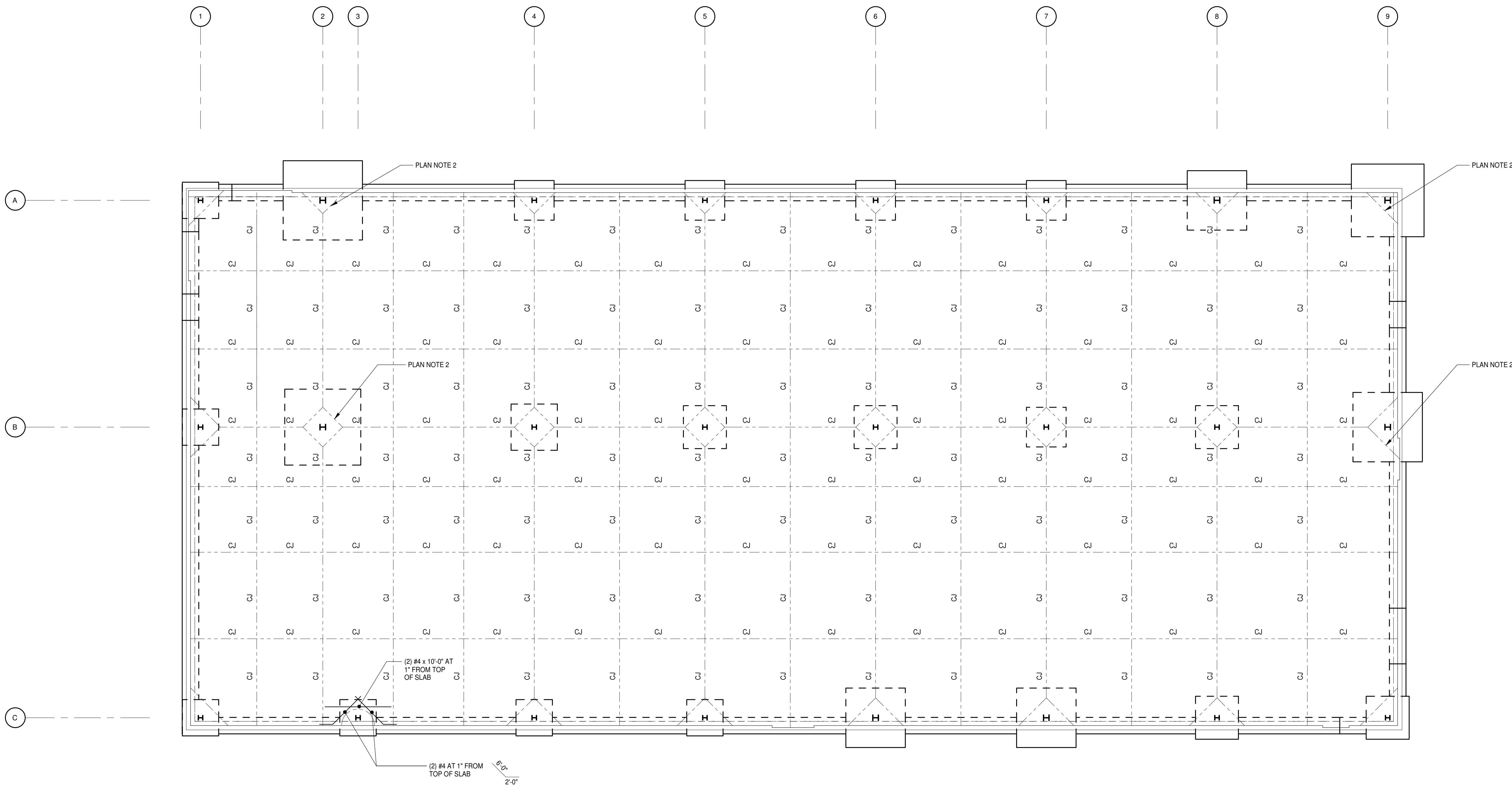


CLASSROOM BUILDING CONTROL JOINT PLAN

1/8" = 1'-0"

SLAB CONTROL JOINT PLAN NOTES:

1. REFER TO S1.1.1 FOR FOUNDATION PLAN NOTES.
2. CONTRACTOR SHALL PROVIDE DIAMOND AT BRACED FRAME COLUMNS THAT IS LARGE ENOUGH TO COMPLETELY ENCLOSE THE BRACE GUSSET PLATE.



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DATE DESCRIPTION

SLAB CONTROL JOINT
PLAN - CLASSROOM
BUILDING

S1.1.1A

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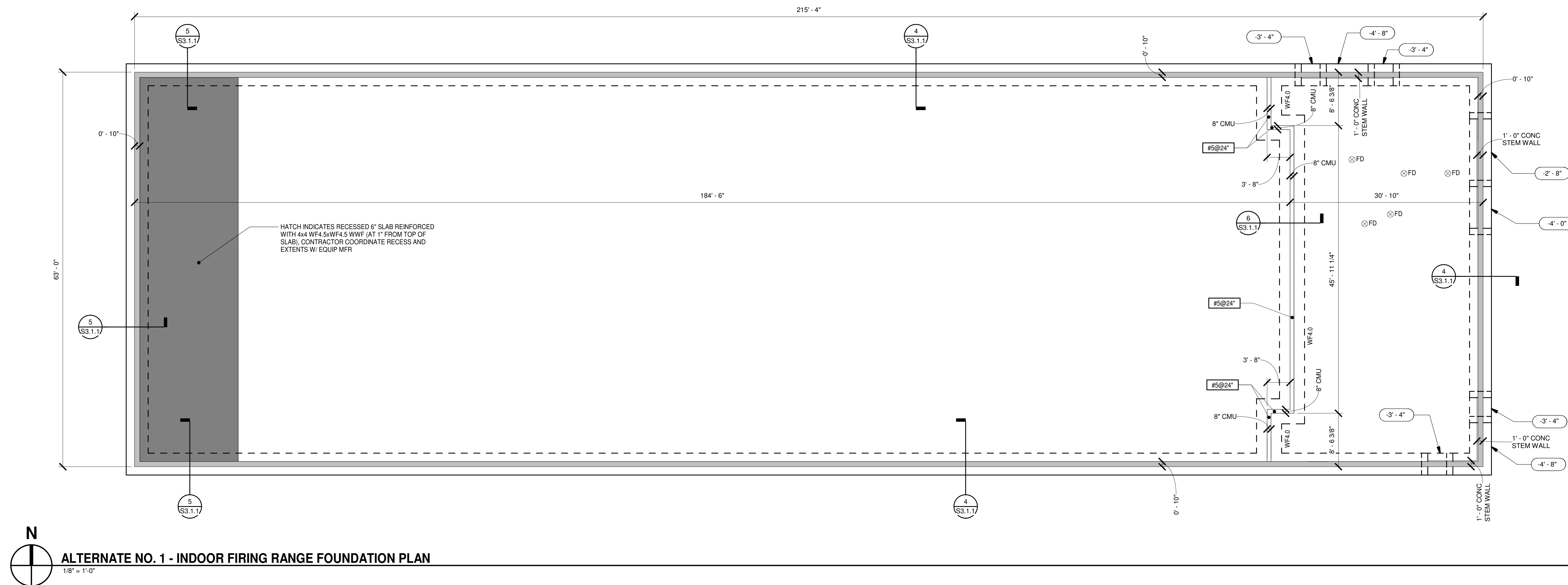
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**ALTERNATE NO. 1 -
FOUNDATION PLAN
INDOOR FIRING RANGE**

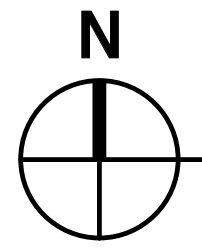
S1.1.2



ALTERNATE NO. 1 - INDOOR FIRING RANGE FOUNDATION PLAN

FOUNDATION PLAN NOTES:

1. REFER TO DRAWING S11.1 FOR FOUNDATION PLAN NOTES.
2. FINISHED FIRST FLOOR ELEVATION = 655.25' - REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCE TO THIS ELEVATION, UNO.
3. TOP OF ALL FOOTINGS SHALL BE (-2'-0"), UNO.
4. ALL WALL FOOTINGS SHALL BE WF3.5, UNO.
5. EXTERIOR PRECAST CONCRETE INSULATED SANDWICH PANEL WALLS SHALL BE 9'-4", UNO. EXTERIOR PRECAST CONCRETE INSULATED SANDWICH PANEL WALLS ARE REPRESENTED BY: 
6. REINFORCE INTERIOR MASONRY WALLS AS CALLED OUT ON PLAN. WALL REINFORCING CALLOUTS ON PLAN SHALL APPLY FOR ENTIRE LENGTH OF WALL, UNO. MASONRY WALL IS REPRESENTED BY: 

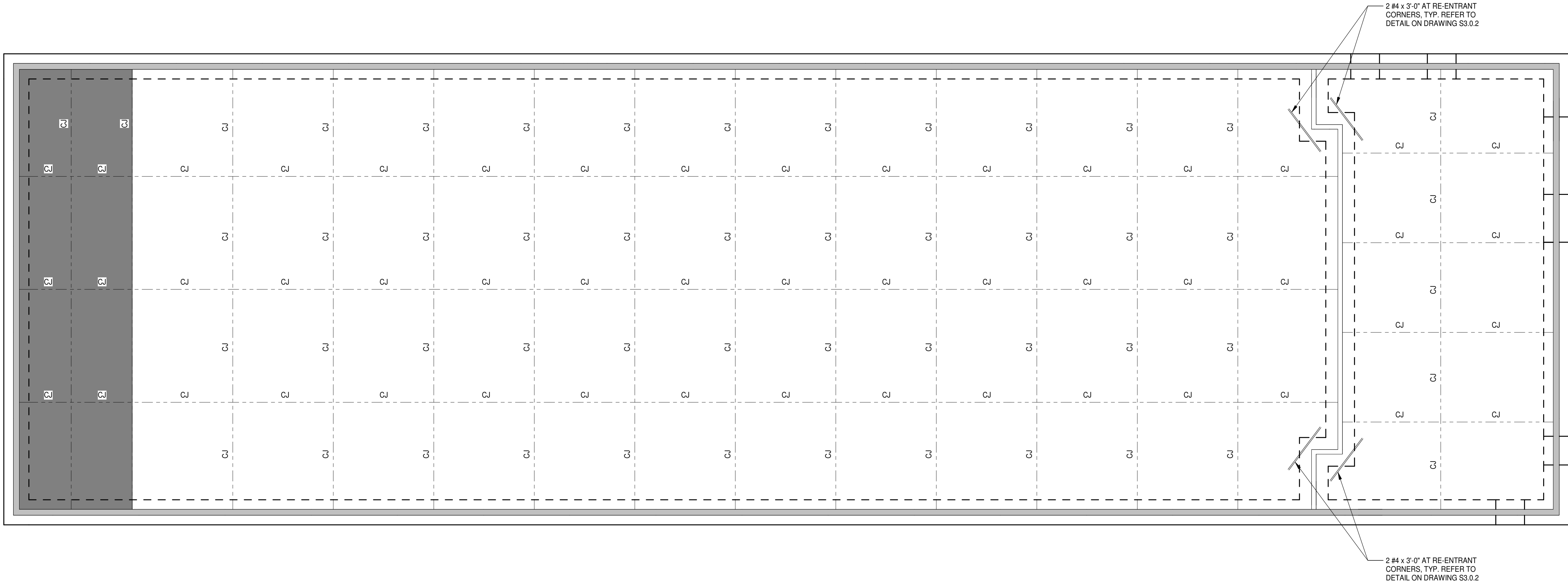


ALT NO. 1 - INDOOR FIRING RANGE SLAB-ON-GRADE CONTROL PLAN

1/8" = 1'-0"

SLAB-ON-GRADE CONTROL JOINT PLAN NOTES:

1. REFER TO S1.1.1A FOR SLAB-ON-GRADE CONTROL JOINT PLAN NOTES.



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ALTERNATE NO. 1 -
SLAB CONTROL PLAN
INDOOR FIRING RANGE

S1.1.2A

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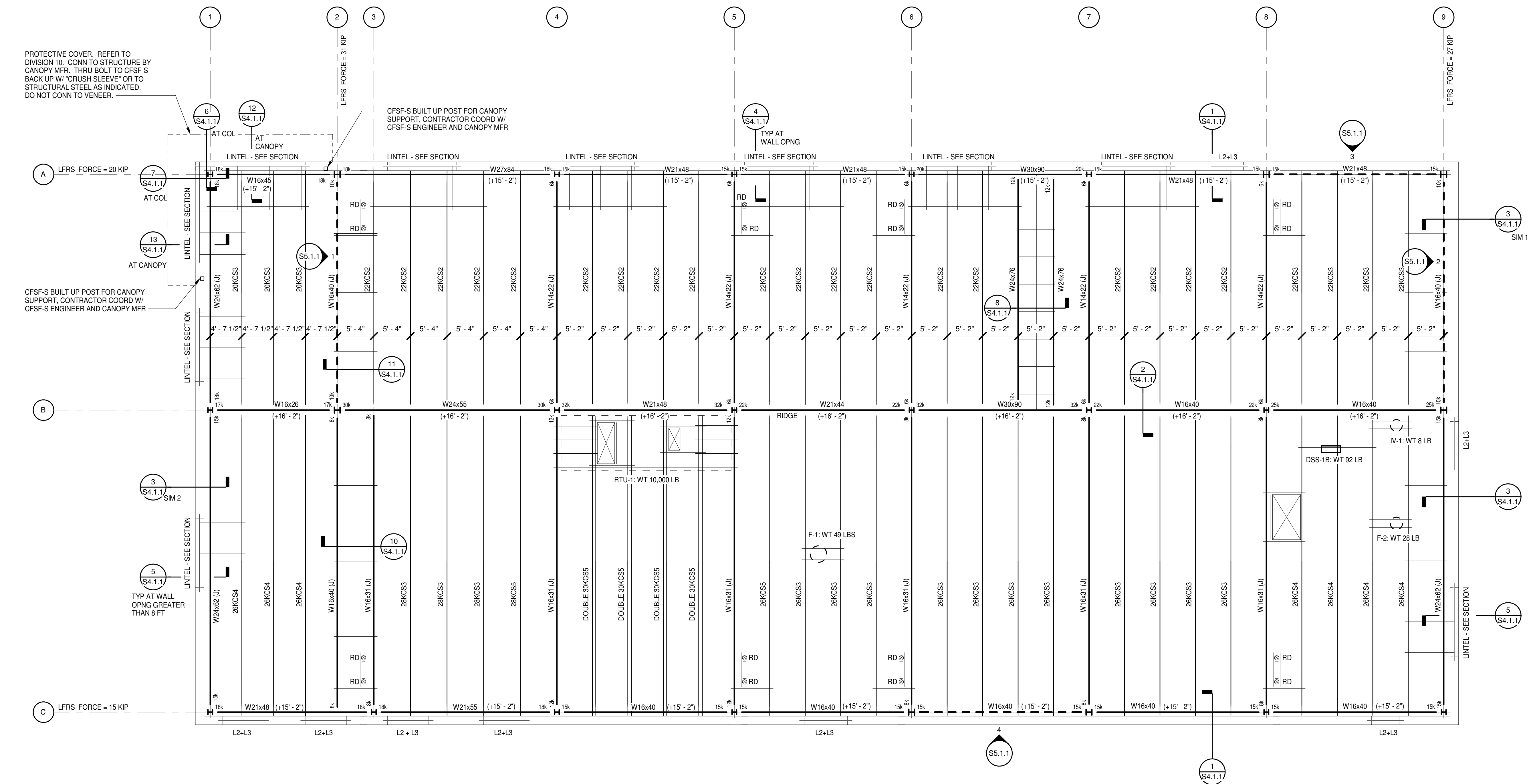
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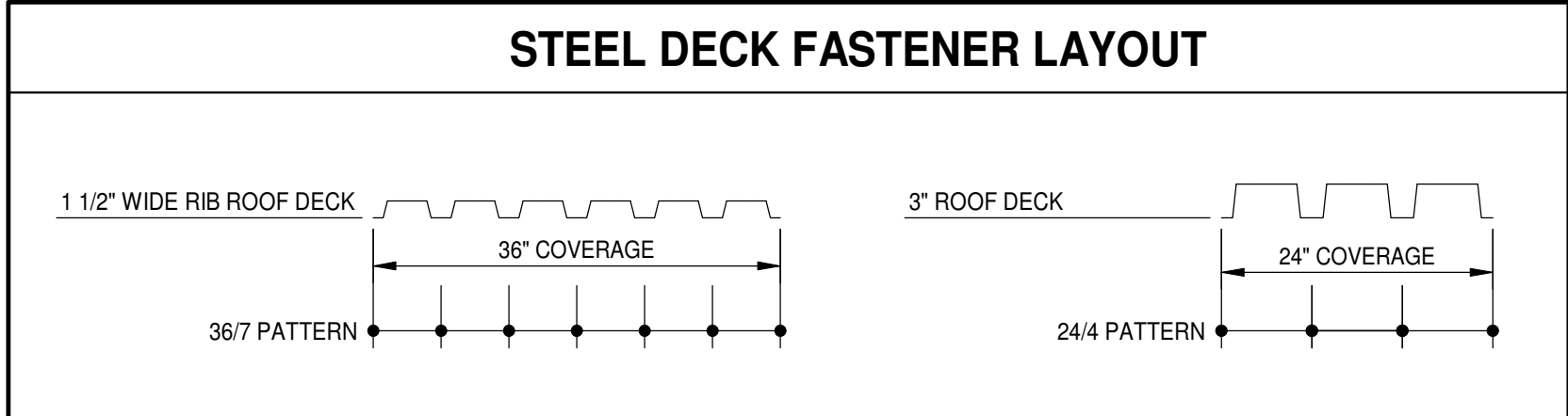
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CLASSROOM BUILDING ROOF FRAMING PLAN
1/8" = 1'-0"
ROOF FRAMING PLAN NOTES:

- TOP OF STEEL BEAMS INDICATED THUS (-X'-Y") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
- STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON THIS DRAWING FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
- ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
- REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
- REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
- GRIDS MARKED "LFRS" ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. CONNECTIONS ALONG THESE GRIDS SHALL BE DESIGNED FOR THE AXIAL TENSION/COMPRESSION FORCE INDICATED ON THE GRID AND ACTING PARALLEL TO THE BEAMS. IN ADDITION TO ALL OTHER FORCES (REFER TO STRUCTURAL STEEL NOTE 3 ON DRAWING S0.0.1). BOLTED CONNECTIONS ON THESE GRID LINES SHALL BE DESIGNED AS SLIP CRITICAL. LFRS CONNECTIONS SHALL ONLY BE MADE THROUGH THE BEAM WEB FOR SIMPLE FOR SIMPLE CONNECTIONS (FLANGE PLATES ARE NOT ALLOWED).
- JOIST MANUFACTURER SHALL DESIGN ALL JOISTS FOR AN AXIAL LOAD OF 2 KIPS (0.6W OR 0.7E) IN ADDITION TO ALL OTHER FORCES, UNO.
- STEEL BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM AXIAL LOAD OF 2 KIPS (0.6W OR 0.7E) IN ADDITION TO ALL OTHER FORCES, UNO. THIS REQUIREMENT DOES NOT APPLY FOR BEAMS ON LFRS GRIDLINES. MINIMUM CONNECTION DESIGN AXIAL LOADS FOR STRUCTURAL INTEGRITY SHALL BE PER AISI 360.

STEEL DECK SCHEDULE		
DECK TYPE 1	1 1/2" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS AT A 36/7 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH A MINIMUM OF (10) #10 TEK SCREWS PER SPAN (6" OC MAX).
DECK TYPE 2	3" - 18 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS AT A 24/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH A MINIMUM OF (15) #10 TEK SCREWS PER SPAN (6" OC MAX).
DECK TYPE 3	3" - 20 GAGE WIDE RIB ROOF DECK, GALVANIZED	FASTEN TO ALL SUPPORTS WITH #12 TEK SCREWS AT A 24/4 PATTERN, AND AT 6" OC AT ALL EDGES AND END LAPS. FASTEN SIDELAPS WITH A MINIMUM OF (5) #10 TEK SCREWS PER SPAN (14" OC MAX).



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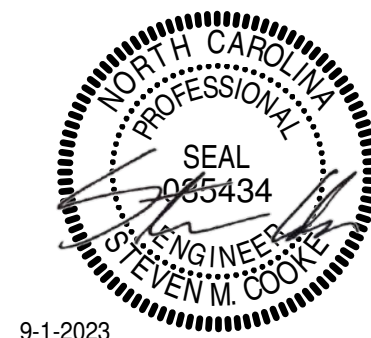
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ROOF FRAMING PLAN -
CLASSROOM BUILDING

S2.1.1

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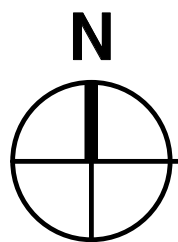
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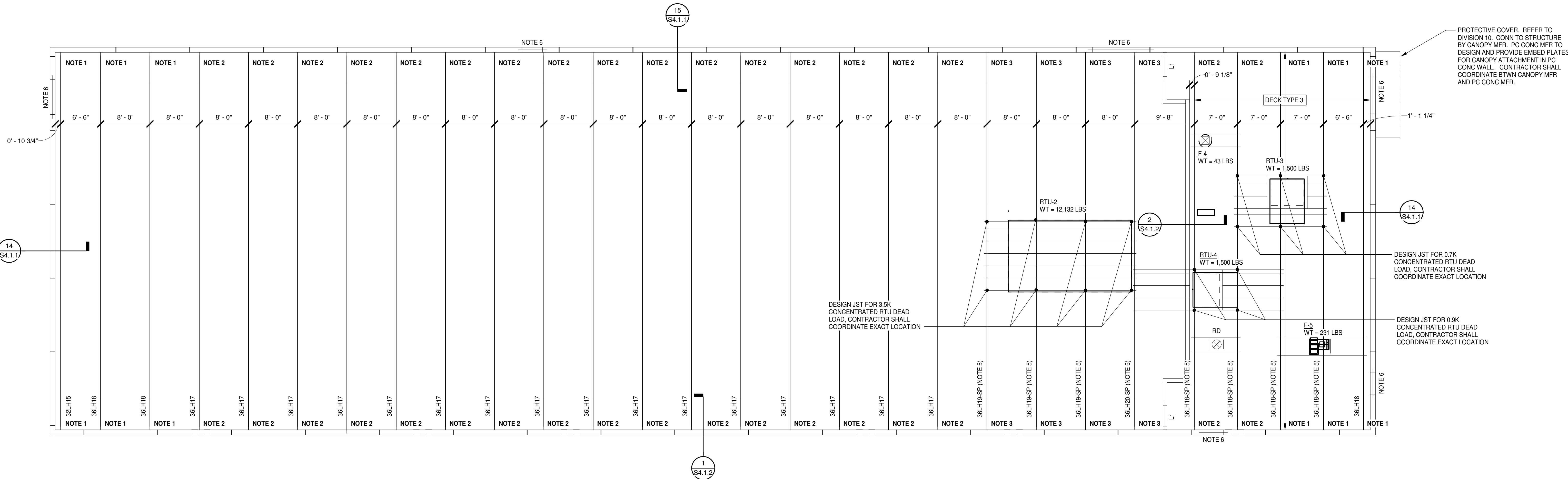


ALTERNATE NO. 1 - INDOOR FIRING RANGE ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING PLAN NOTES:

- REFER TO DRAWING S2.1.1 FOR ROOF FRAMING PLAN NOTES.
- STEEL ROOF DECK SHALL BE 3" DEEP RIB ROOF DECK (DECK TYPE 2). UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S2.1.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
- ALL LOADS INDICATED ON FRAMING PLAN ARE SERVICE LOADS FOR ALLOWABLE STRESS DESIGN (INCLUDING WIND AND SEISMIC LOADS). SERVICE LOADS INDICATED SHALL BE FACTORED FOR STRENGTH DESIGN OF PRECAST CONCRETE MEMBERS.
- WHERE NECESSARY TO FIELD SPLICE ANGLES CALLED OUT AS CONTINUOUS ON THE PLANS OR SECTIONS, PROVIDE FIELD OR SHOP SPLICES IN ACCORDANCE WITH TYPICAL DECK EDGE ANGLE SPLICE DETAIL ON S4.0.2. CENTERLINE OF VERTICAL EMBED PLATE SHOULD NOT COINCIDE WITH JOIST BEARING TO AVOID CONFLICT WITH SPLICE INSTALLATION.
- JOISTS DESIGNATED BY "SP" HAVE BEEN SIZED FOR UNIFORM DEAD AND LIVE LOADS ONLY. JOIST MFR TO DESIGN JOISTS DESIGNATED BY "SP" FOR CONCENTRATED LOADS FROM ROOF TOP UNITS INDICATED ON PLAN. SNOW DRIFT LOADS INDICATED ON THE ROOF SNOW DRIFT LOAD DIAGRAM ON DRAWING S0.0.3, AND ROOF WIND PRESSURES INDICATED ON THE ROOF WIND PRESSURE DIAGRAM ON DRAWING S0.0.3, IN ADDITION TO THE SJI UNIFORM DEAD AND LIVE LOADS FOR THE JOIST SIZE INDICATED.
- LINTEL IN PC CONC WALL DESIGNED BY PC CONC MFR.



NOTE 1: JOIST ASD LOADS
PC MFR, DESIGN CORBEL & HORIZ EMBED PLATE FOR:
VERTICAL: 16.20 K (D)
4.91 K (Lr)
12.75 K (S)
3.91 K (0.6W DOWN)
-5.66 K (0.6W UPLIFT)
OUT-OF-PLANE LATERAL: ±3.15 K (0.7E)
±1.66 K (0.6W)

NOTE 2: JOIST ASD LOADS
PC MFR, DESIGN CORBEL & HORIZ EMBED PLATE FOR:
VERTICAL: 18.53 K (D)
5.11 K (Lr)
8.69 K (S)
2.19 K (0.6W DOWN)
-5.20 K (0.6W UPLIFT)
OUT-OF-PLANE LATERAL: ±3.28 K (0.7E)
±1.51 K (0.6W)

NOTE 3: JOIST ASD LOADS
PC MFR, DESIGN CORBEL & HORIZ EMBED PLATE FOR:
VERTICAL: 23.09 K (D)
5.42 K (Lr)
9.21 K (S)
2.32 K (0.6W DOWN)
-5.51 K (0.6W UPLIFT)
OUT-OF-PLANE LATERAL: ±3.48 K (0.7E)
±1.60 K (0.6W)

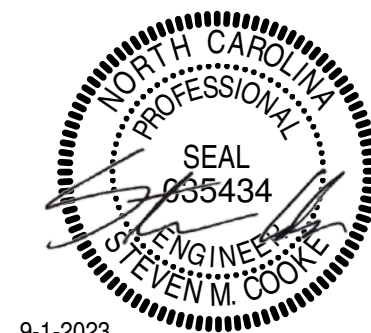
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ALTERNATE NO. 1 -
ROOF FRAMING PLAN
INDOOR FIRING RANGE

S2.1.2

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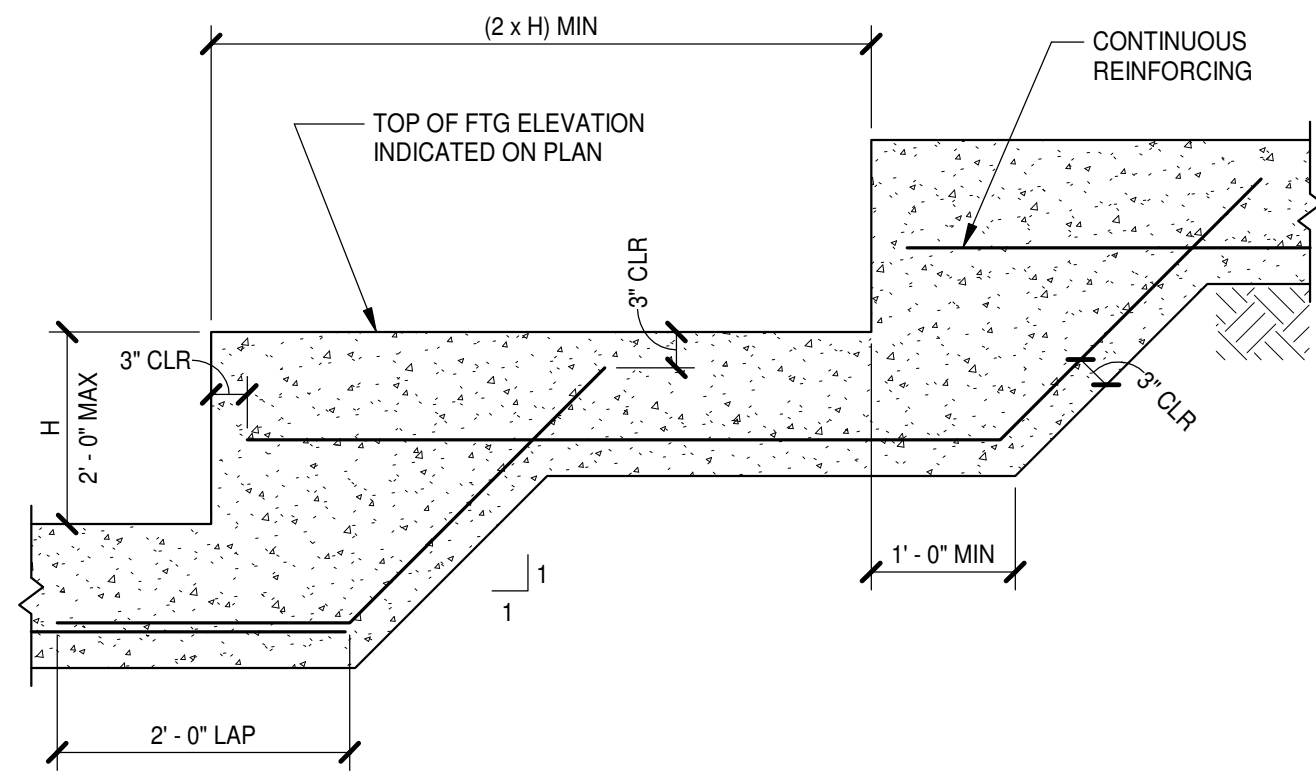
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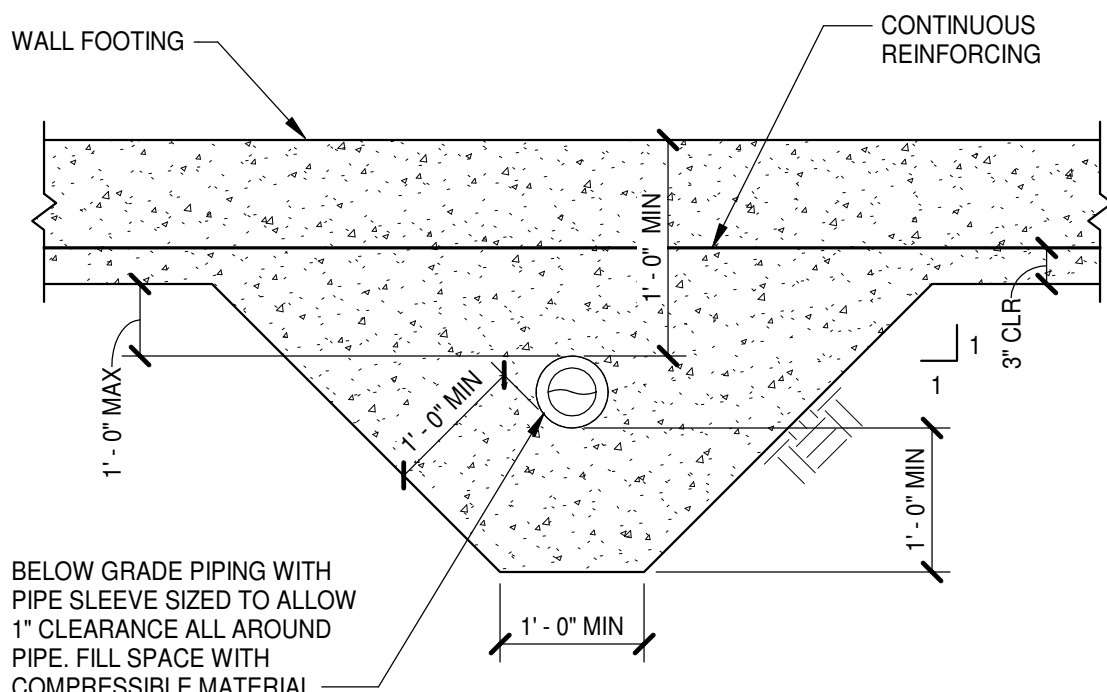
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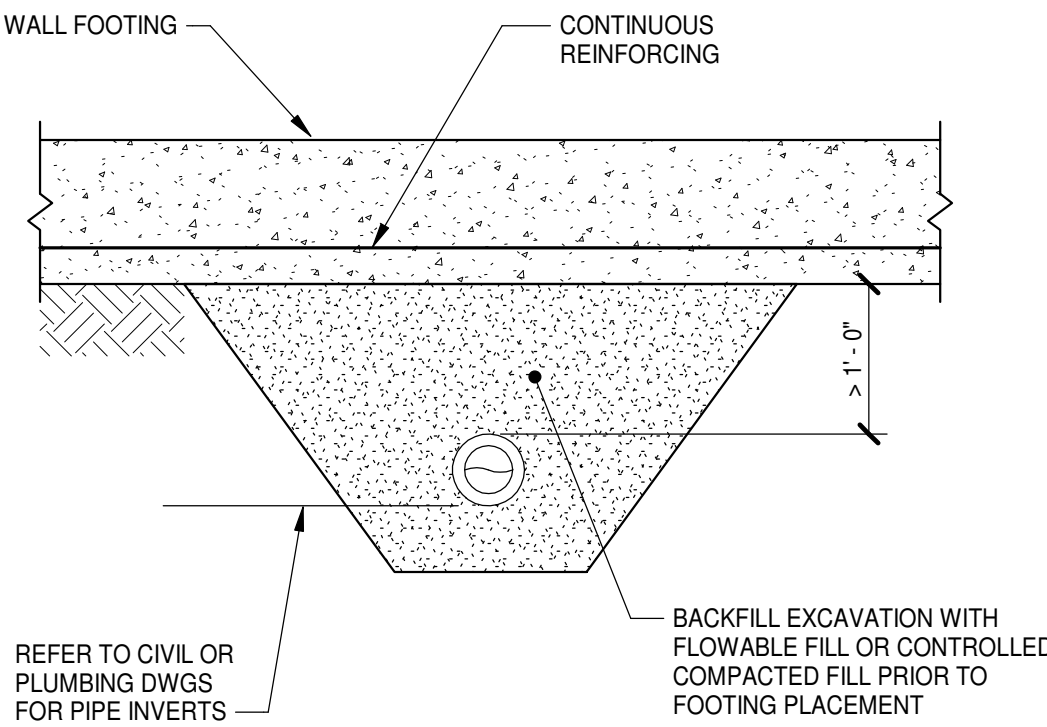


FOOTING STEP

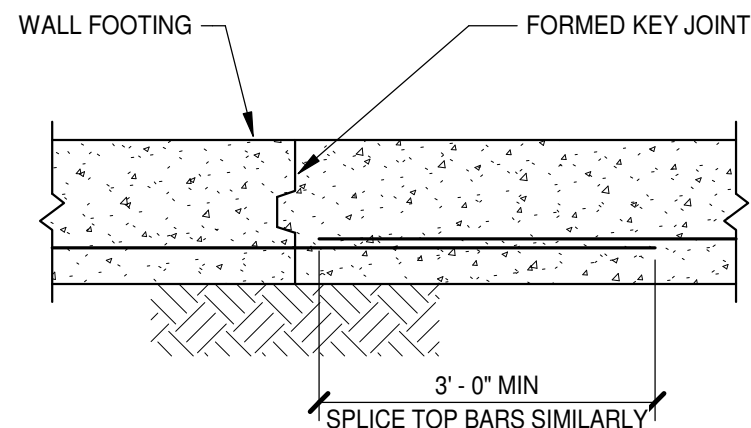
WALL FOOTING DETAILS
NO SCALE



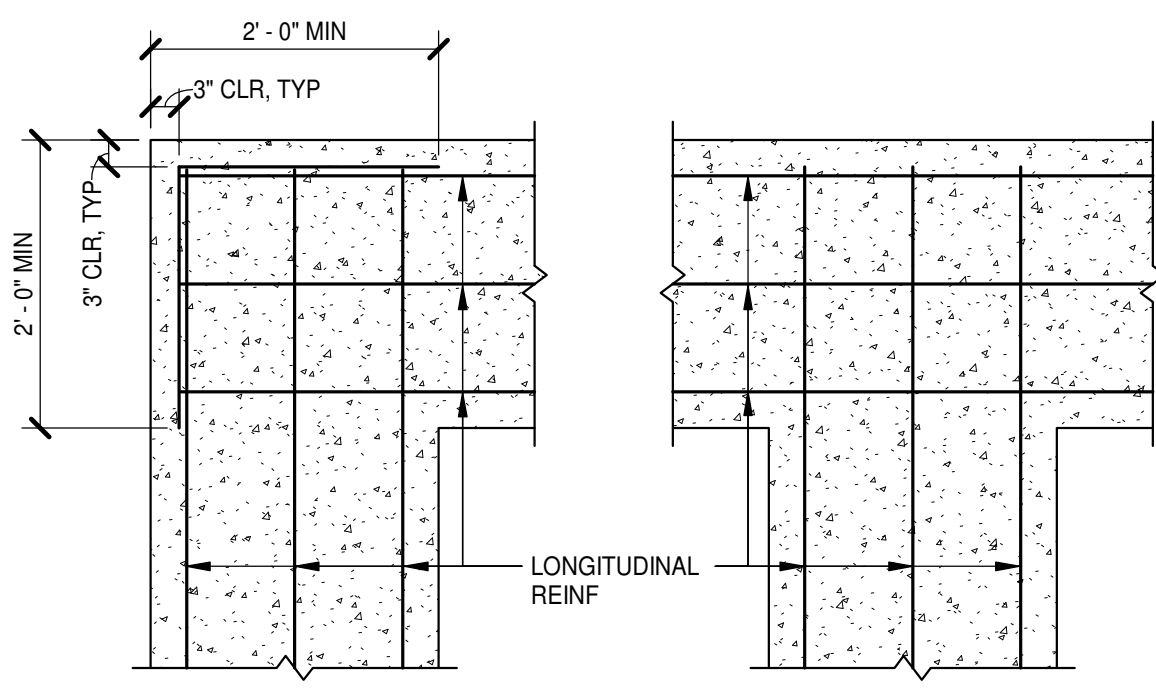
FOOTING SLEEVE



PIPE TRENCH BACKFILL AT FOOTING
(PIPE PLACED PRIOR TO FOOTING)

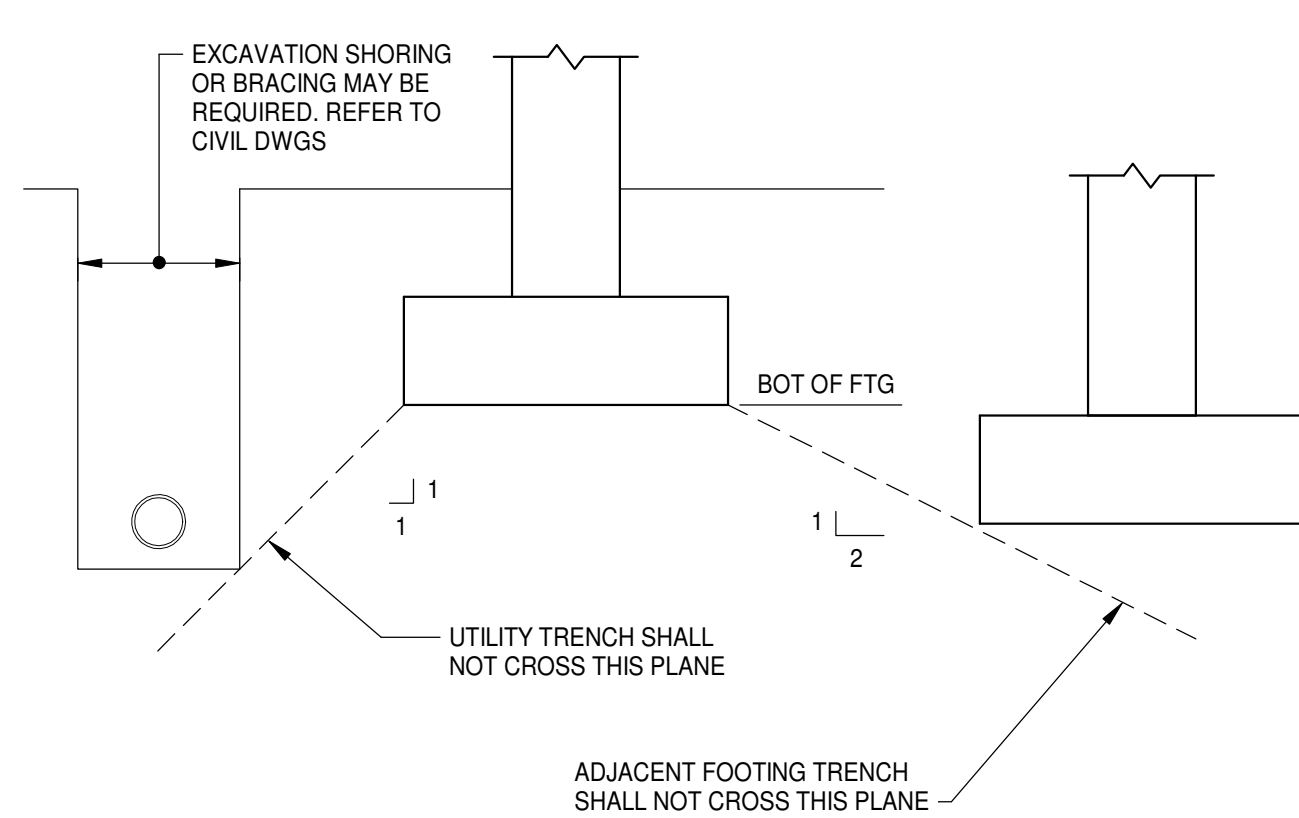


CONSTRUCTION JOINT

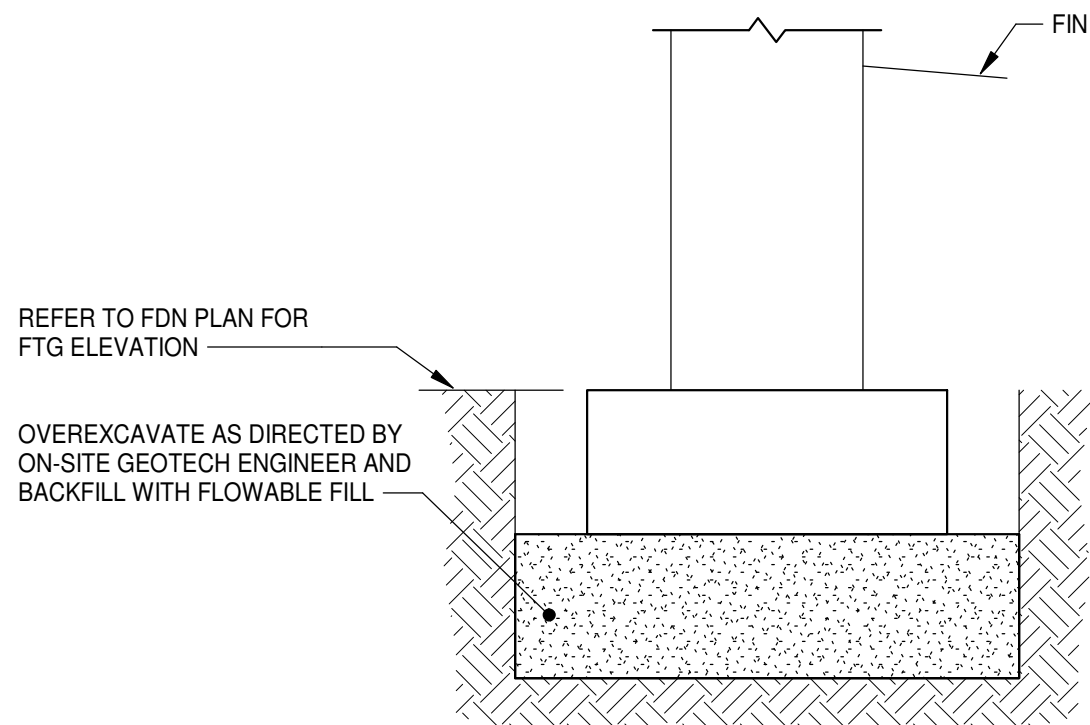


PLAN AT CORNER

PLAN AT INTERSECTION



FOOTING EXCAVATION LIMITS
NO SCALE



OVEREXCAVATION DETAIL
NO SCALE

LAP SPLICES SHALL BE IN ACCORDANCE WITH ACI 318 CHAPTER 25 AS INDICATED BELOW. TOP BAR LAPS (HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR) SHALL BE MODIFIED BY A MULTIPLICATION OF 1.3 TIMES THE LENGTHS LISTED IN THE TABLE BELOW. LENGTHS INDICATED IN INCHES.

NORMAL-WEIGHT (145 PCF)

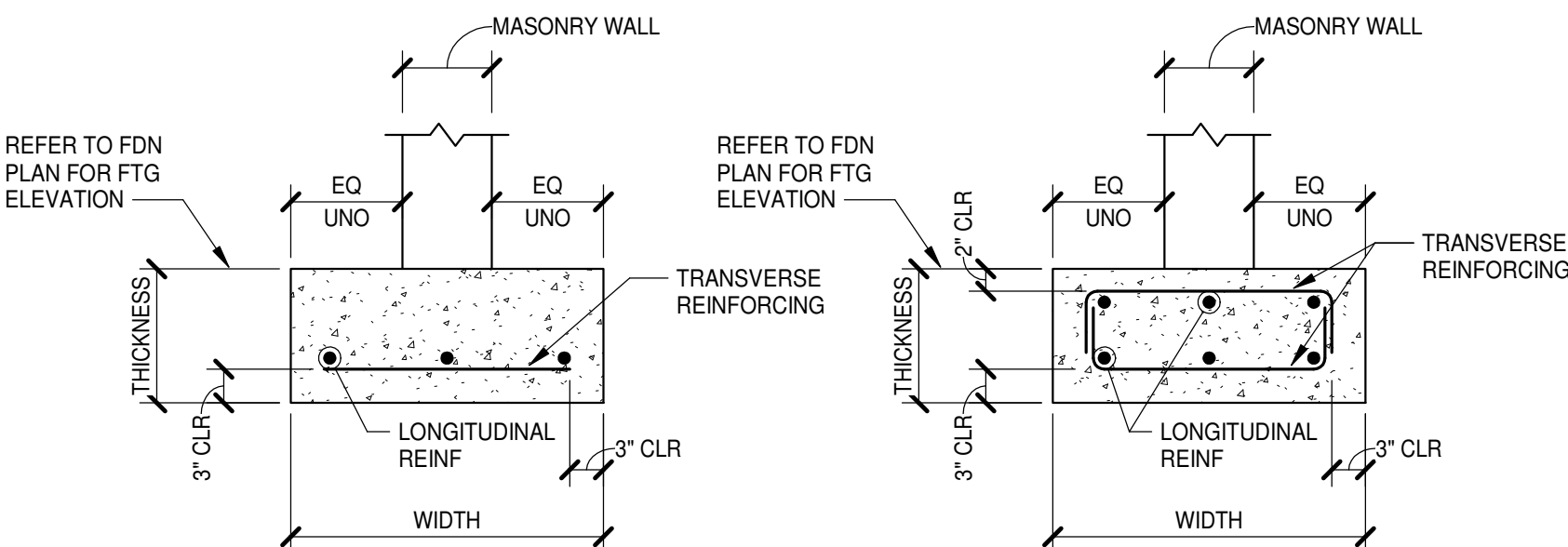
Fc (psi)	LAP CLASS	#3	#4	#5	#6	#7	#8	#9
3000	A	16	22	27	33	48	55	62
	B	21	28	36	43	62	71	80
3500	A	15	20	25	30	44	51	57
	B	20	26	33	40	58	66	74
4000	A	14	19	24	28	42	47	53
	B	18	25	31	37	54	62	69
5000	A	13	17	21	25	37	42	46
	B	17	22	28	33	48	55	62

LIGHTWEIGHT (110 PCF)

Fc (psi)	LAP CLASS	#3	#4	#5	#6	#7	#8	#9
3000	A	22	29	37	44	64	73	82
	B	28	38	47	57	83	95	107
3500	A	20	27	34	41	59	68	76
	B	26	35	44	53	77	88	99
4000	A	19	25	32	38	55	63	71
	B	25	33	41	49	72	82	92
5000	A	17	23	28	34	49	57	64
	B	22	29	37	44	64	74	83

ACI 318 LAP LENGTHS

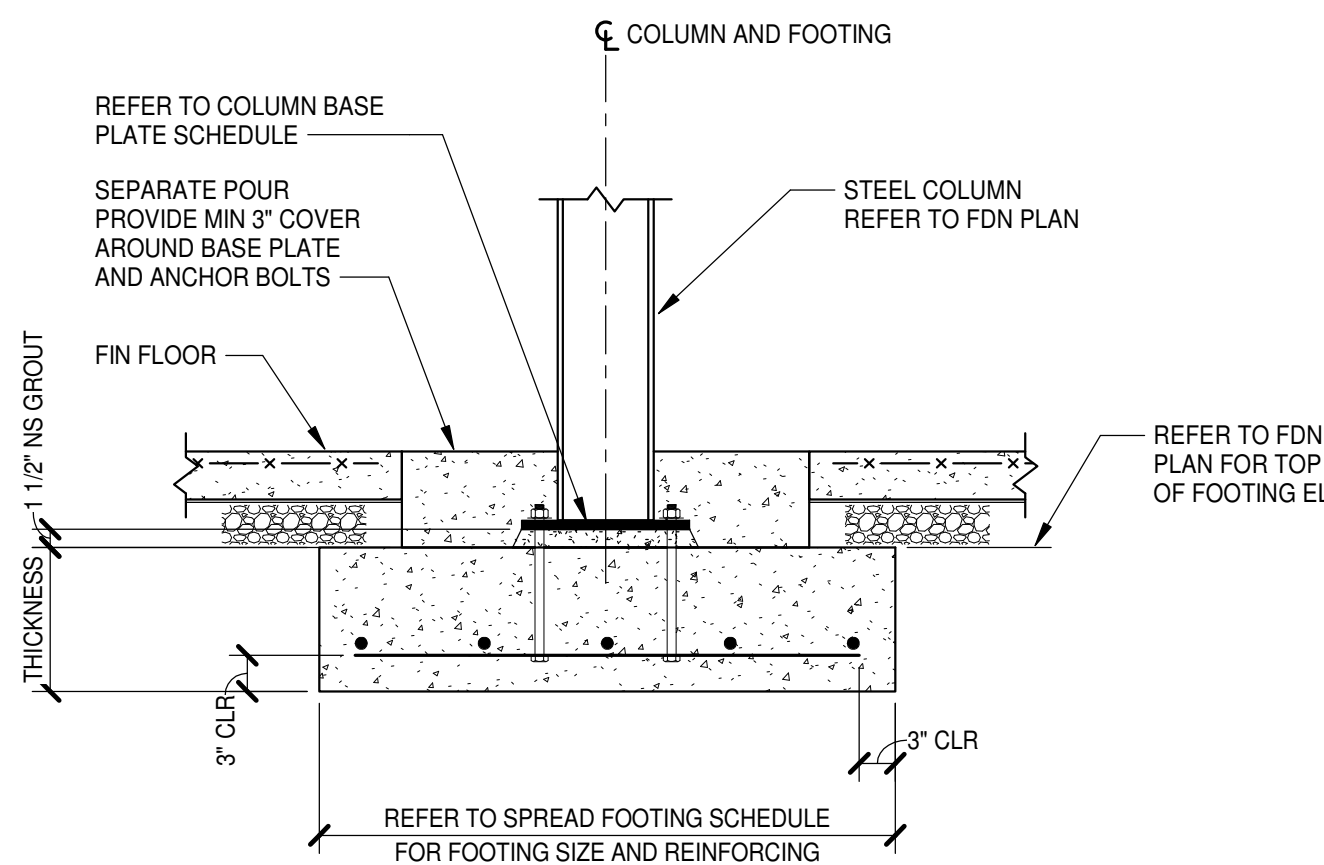
WALL FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING (BOT. UNO)	
			LONGITUDINAL	TRANSVERSE
WF2.5	2'-6"	1'-0"	(3) #5 CONT BOT	#4 AT 48" OC BOT
WF3.5	3'-6"	1'-0"	(4) #5 CONT BOT	#5 AT 12" OC BOT
WF4.0	4'-0"	1'-0"	(5) #5 CONT BOT	#5 AT 12" OC TOP & BOT



WITH BOT REINFORCING

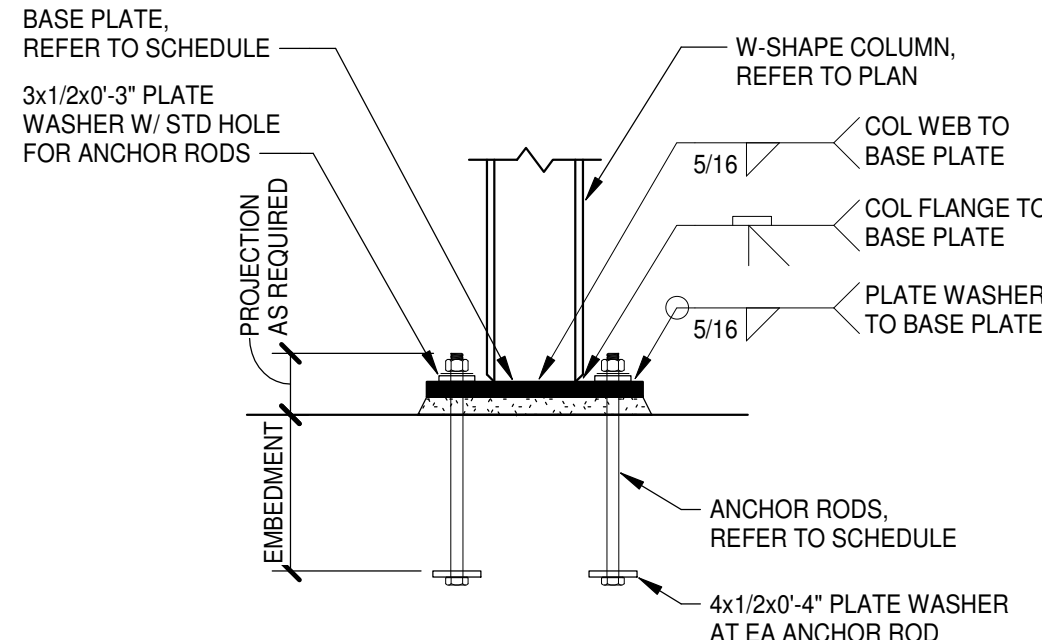
WITH TOP & BOT REINFORCING

WALL FOOTING DETAILS
NO SCALE

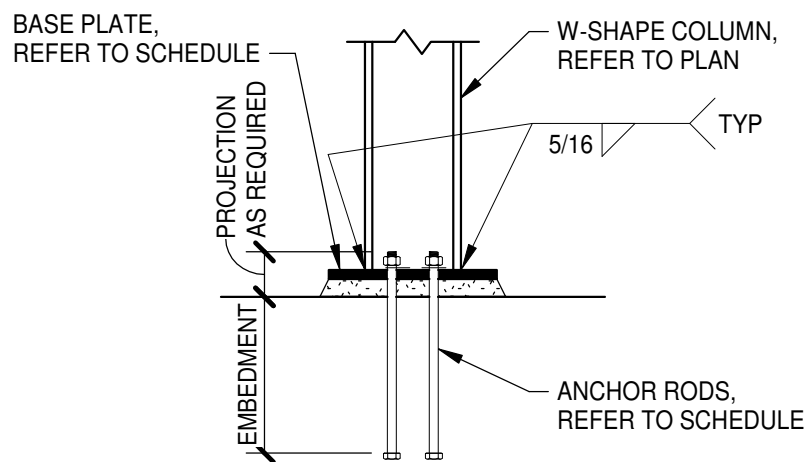


STEEL COLUMN FOOTING DETAILS
NO SCALE

SPREAD FOOTING SCHEDULE				
MARK	SIZE		THICKNESS	REINFORCING
	LENGTH	WIDTH		
5.5'	5'-6"	5'-6"	1'-11"	(6) #5 EA WAY TOP & BOT
6.0'	6'-0"	6'-0"	1'-2"	(7) #5 EA WAY TOP & BOT
6.5'	6'-6"	6'-6"	1'-4"	(8) #6 EA WAY TOP & BOT
7.0'	7'-0"	7'-0"	1'-5"	(7) #6 EA WAY TOP & BOT
9.0'	9'-0"	9'-0"	1'-10"	(11) #6 EA WAY TOP & BOT
10.5'	10'-6"	10'-6"	2'-11"	(10) #7 EA WAY TOP & BOT
11.0'	11'-0"	11'-0"	2'-2"	(11) #7 EA WAY TOP & BOT
11.5'	11'-6"	11'-6"	2'-3"	(12) #7 EA WAY TOP & BOT
12.0'	12'-0"	12'-0"	2'-3"	(14) #7 EA WAY TOP & BOT

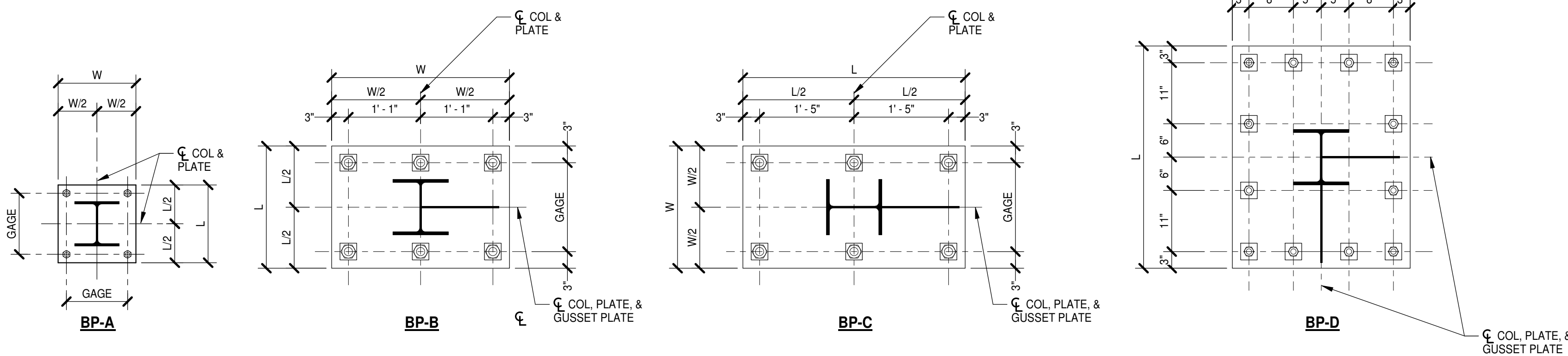


FIXED BASE (W-SHAPE)



STANDARD BASE (W-SHAPE)

COLUMN BASE PLATE DETAILS
NO SCALE

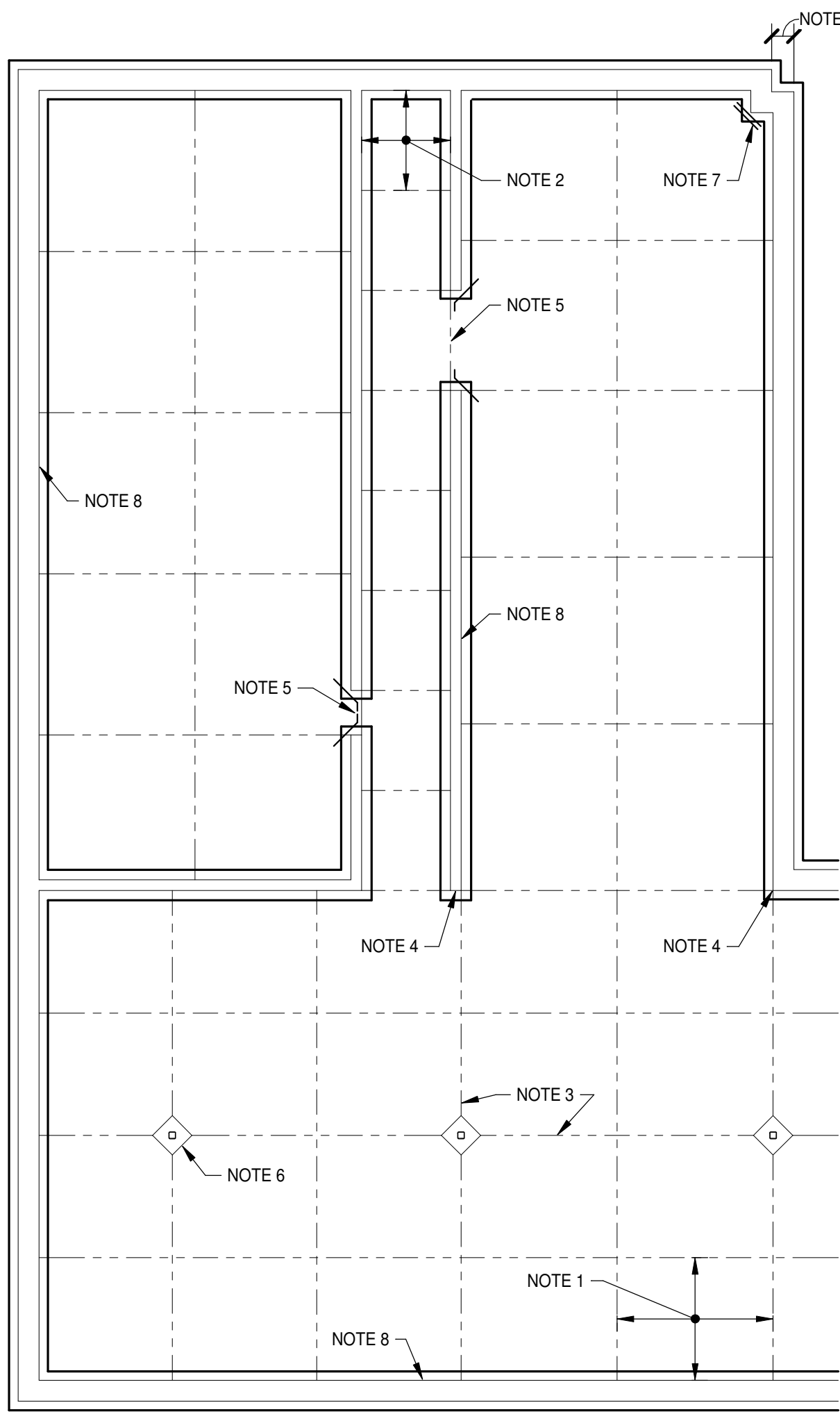


COLUMN BASE PLATE SCHEDULE						
MARK	BASE PLATE SIZE			HEADED ANCHOR RODS		BASE PLATE TYPE
	L	W	T	SIZE	EMBED	
BP-A	1'-4"	1'-4"	0'-1"	(4) 3/4" DIAM	8"	13"
BP-B	1'-10"	2'-8"	0'-1 1/2"	(6) 1/2" DIAM	16"	16"
BP-C	3'-4"	1'-10"	0'-1 1/2"	(6) 1/2" DIAM	16"	16"
BP-D	3'-4"	2'-8"	0'-1 1/2"	(12) 1" DIAM	16"	SEE DETAIL



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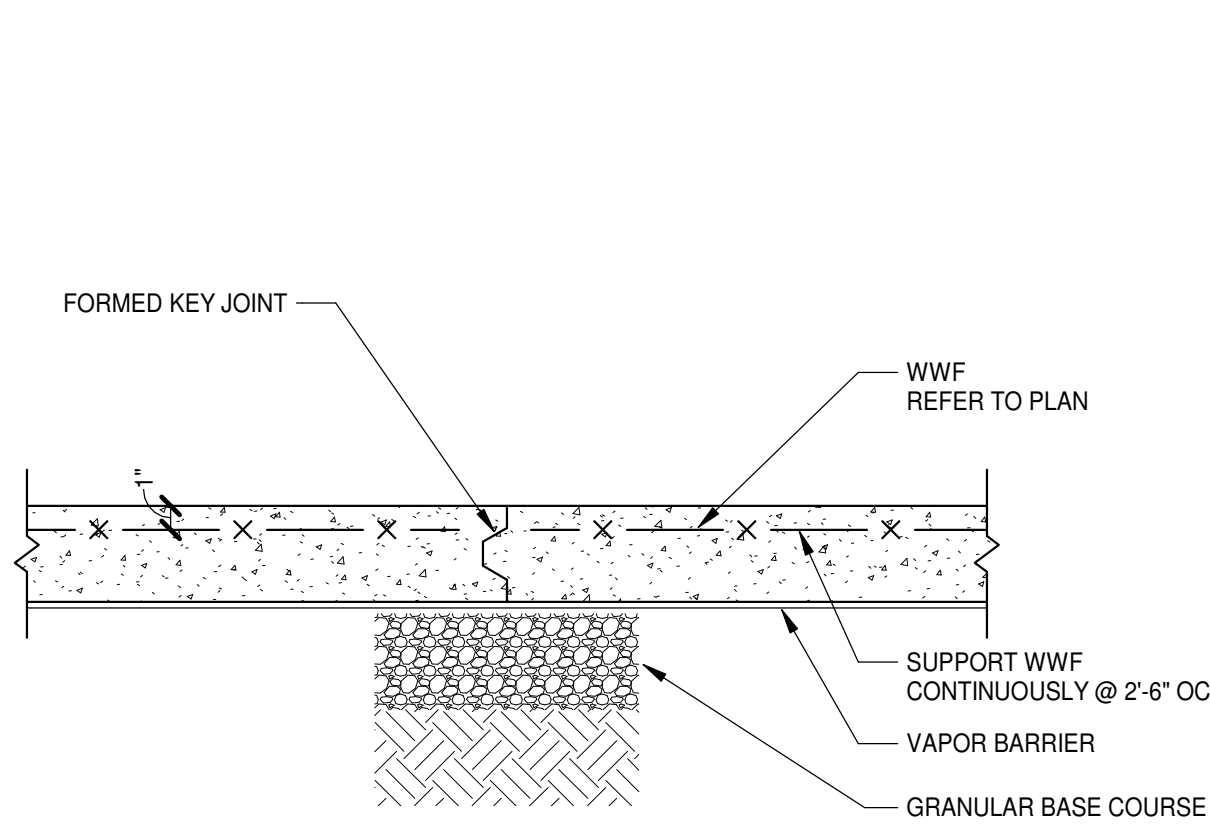


SLAB-ON-GRADE JOINT LAYOUT GUIDELINES

NO SCALE

NOTES:

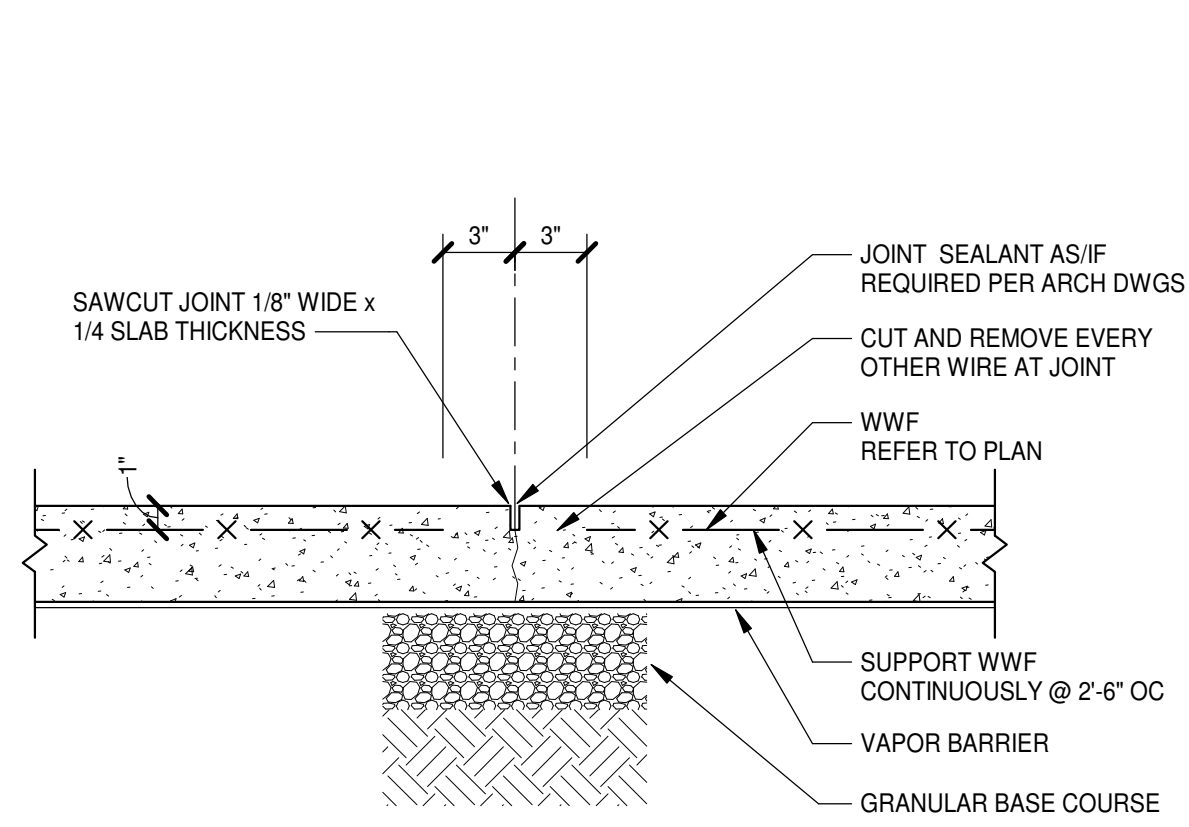
1. PROVIDE CONTROL JOINTS IN SLABS ON GRADE WITHIN THE BUILDING SUCH THAT THE AREA BOUNDED BY CONTROL JOINTS DOES NOT EXCEED 225 SQUARE FEET AND JOINT SPACING DOES NOT EXCEED 15'-0" ON CENTER IN ANY ONE DIRECTION.
2. THE RATIO OF LENGTH TO WIDTH OF THE AREA BOUNDED BY CONTROL JOINTS SHALL NOT EXCEED 1.5 TO 1.
3. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT COLUMN CENTERLINES.
4. LOCATE CONSTRUCTION JOINTS AND OR CONTROL JOINTS AT RE-ENTRANT CORNERS.
5. LOCATE CONSTRUCTION JOINTS PER "PLAN DETAIL AT INTERIOR DOORS".
6. PROVIDE DIAMOND OR CIRCULAR BLOCKOUTS AT COLUMNS.
7. REINFORCE ALL RE-ENTRANT CORNERS OF SLAB PER "SLAB REINFORCING AT RE-ENTRANT CORNERS".
8. PROVIDE BOND BREAK WHERE FLOOR ABUTS CMU OR CONCRETE WALL UNLESS NOTED OTHERWISE.
9. CONTROL JOINT NOT REQUIRED IF DIMENSION AT RE-ENTRANT CORNER IS 2'-0" OR LESS. PROVIDE REINFORCING PER "SLAB REINFORCING AT RE-ENTRANT CORNER".
10. CONTROL JOINT / CONSTRUCTION JOINT PLANS SHALL BE SUBMITTED IF NOT SHOWN ON FOUNDATION PLANS.



CONSTRUCTION JOINT

SLAB-ON-GRADE JOINT DETAILS

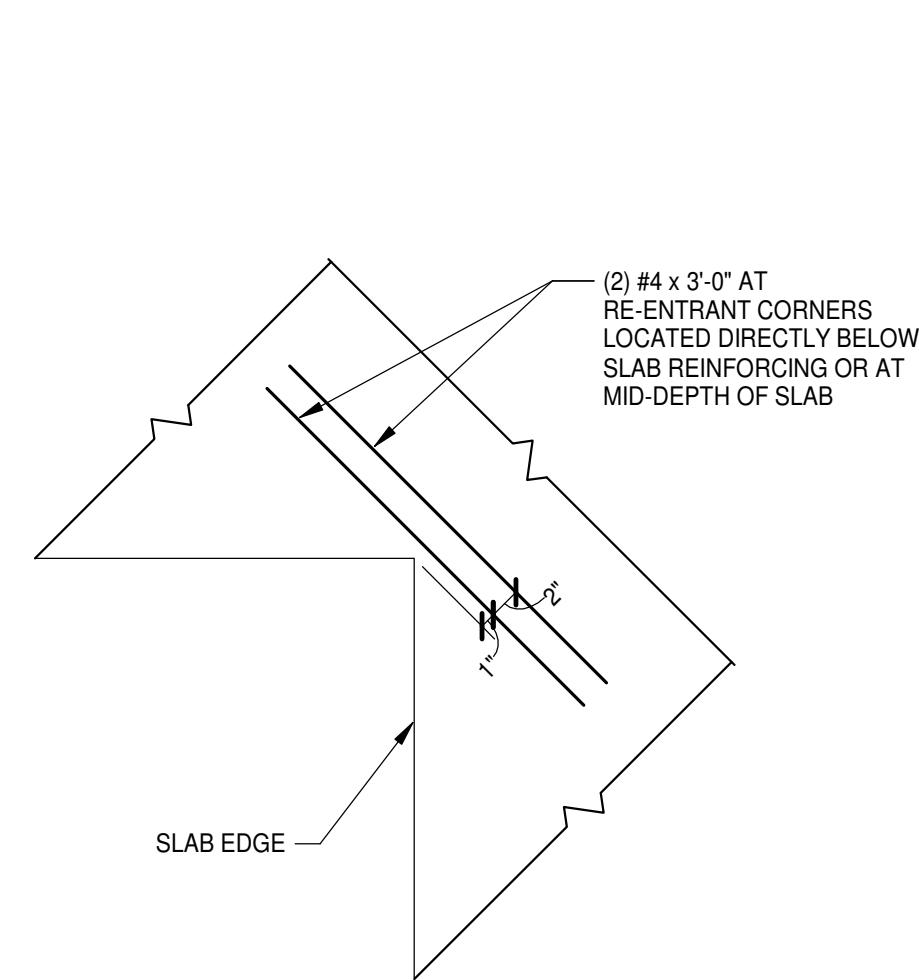
NO SCALE



CONTROL JOINT

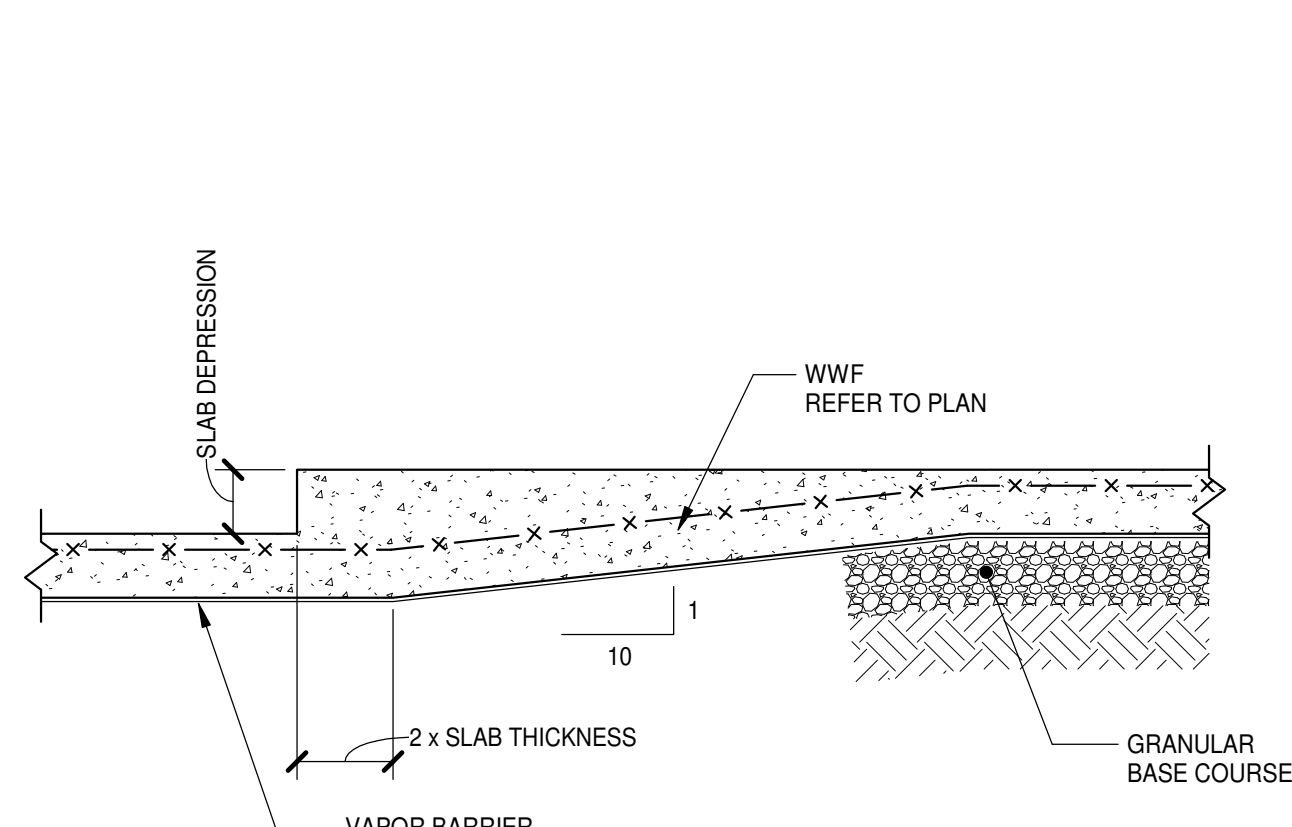
NOTES:

1. SAWCUT AS SOON AS CONCRETE WILL SUPPORT EQUIPMENT AND EARLY ENOUGH TO PREVENT CRACKING. DO NOT DISLODGE AGGREGATE.
2. CONSTRUCTION JOINT MAY REPLACE CONTROL JOINT.



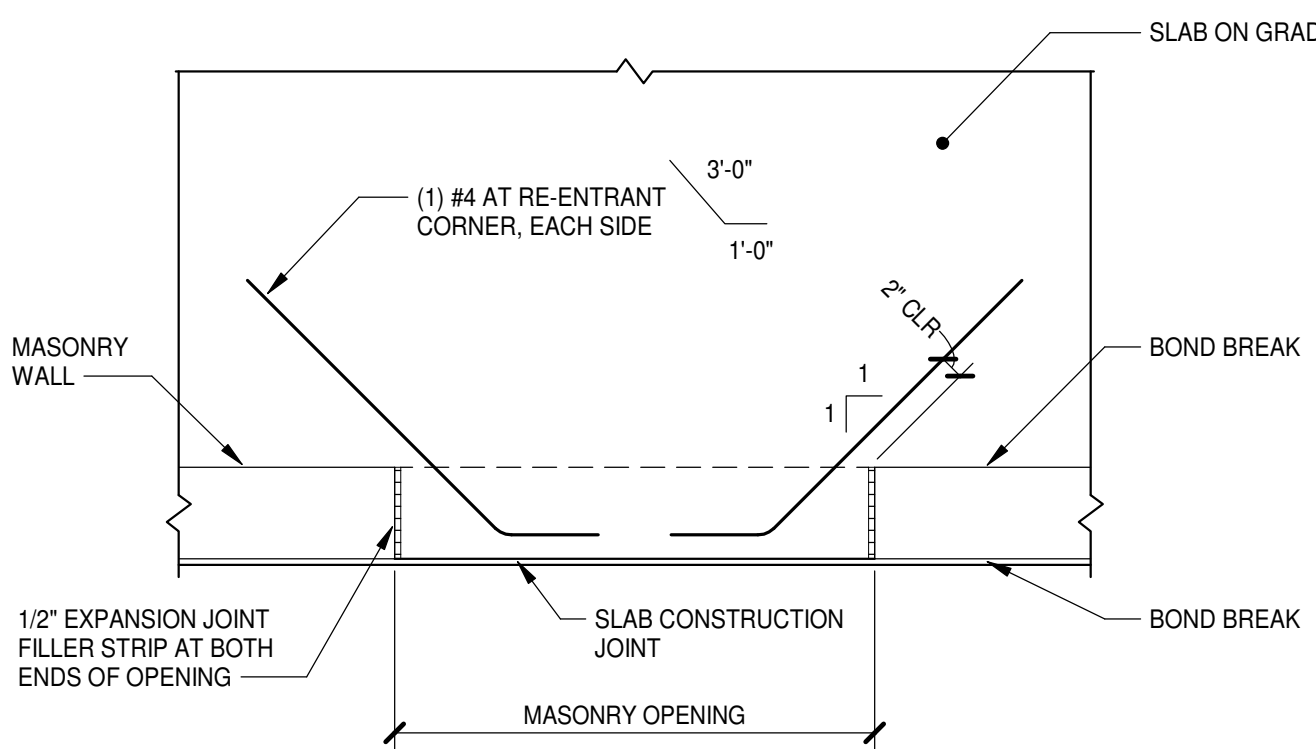
SLAB REINFORCING AT RE-ENTRANT CORNER

NO SCALE

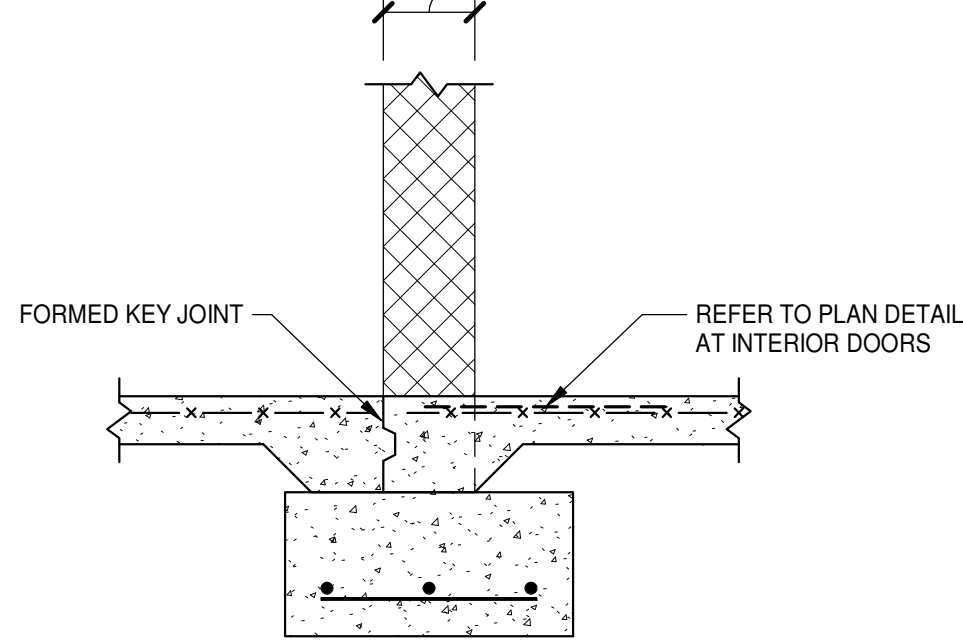


DETAIL AT SLAB DEPRESSION

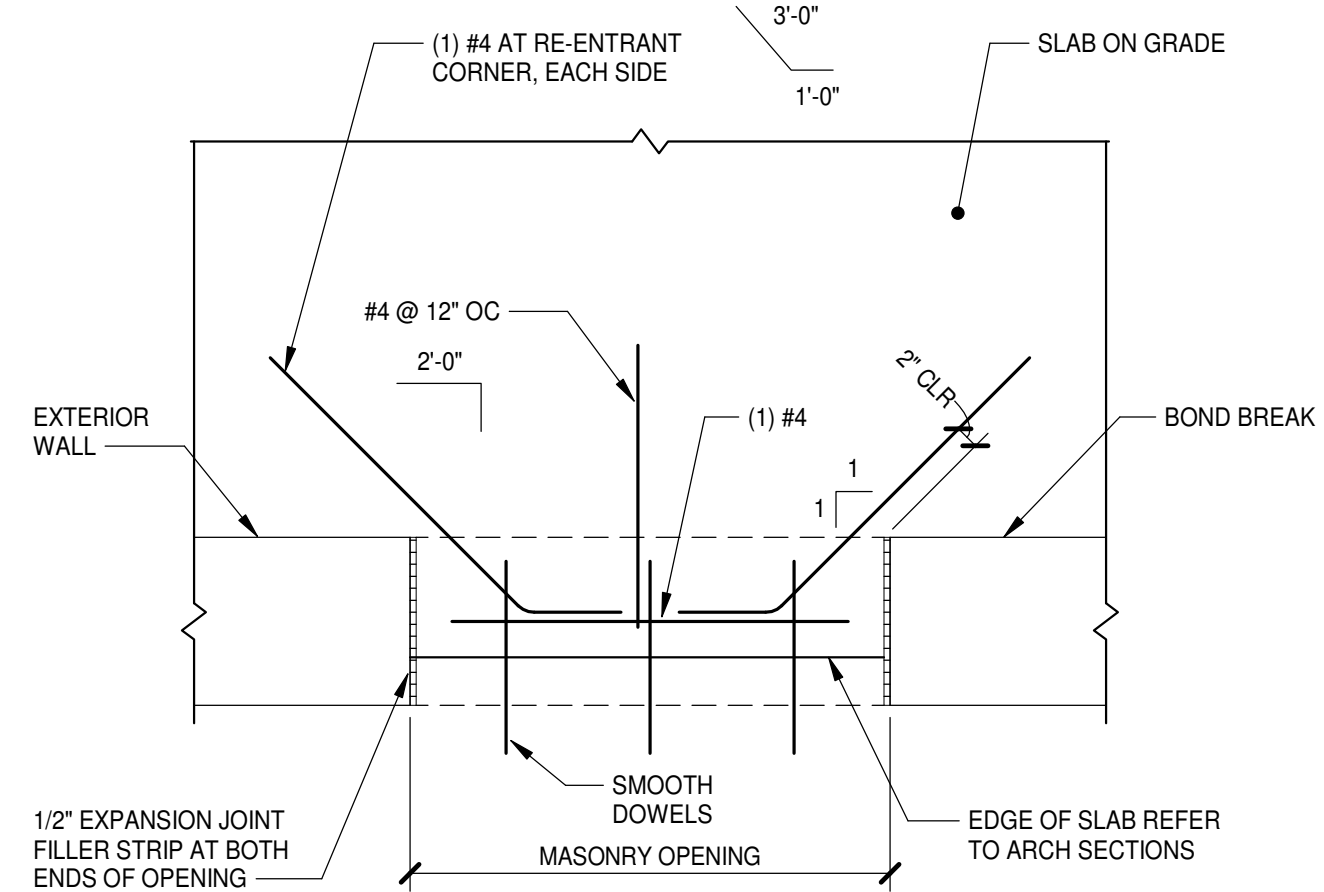
NO SCALE



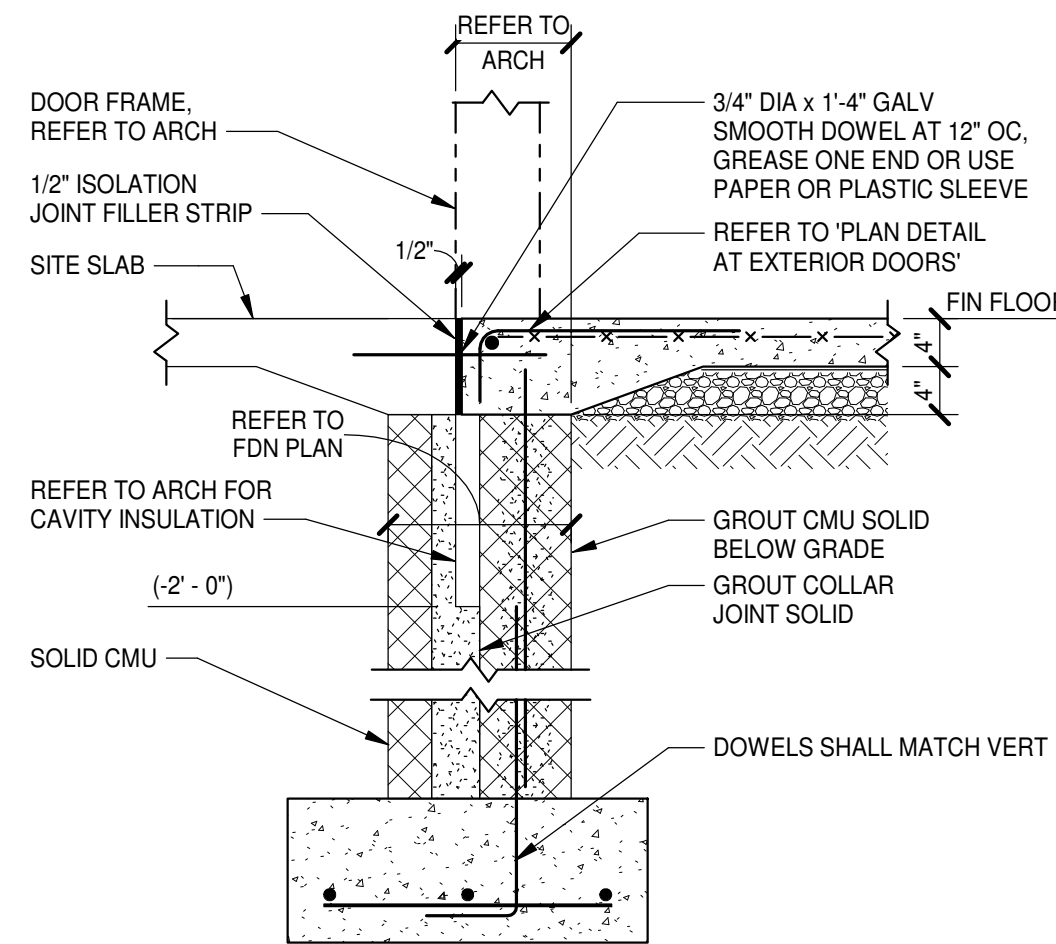
PLAN AT INTERIOR DOORS



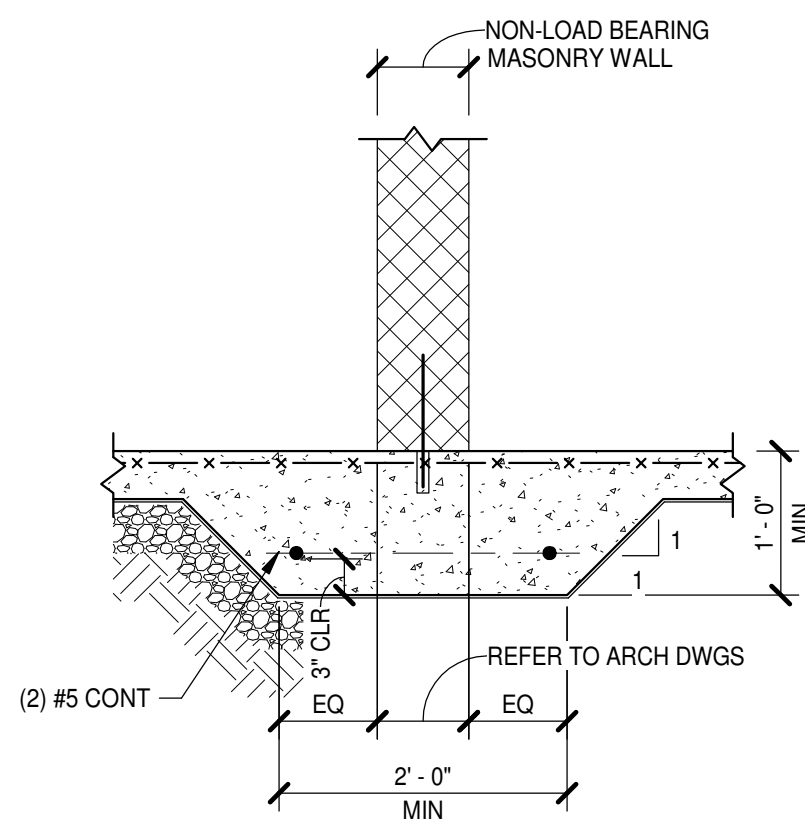
SECTION AT INTERIOR DOORS



PLAN AT EXTERIOR DOORS



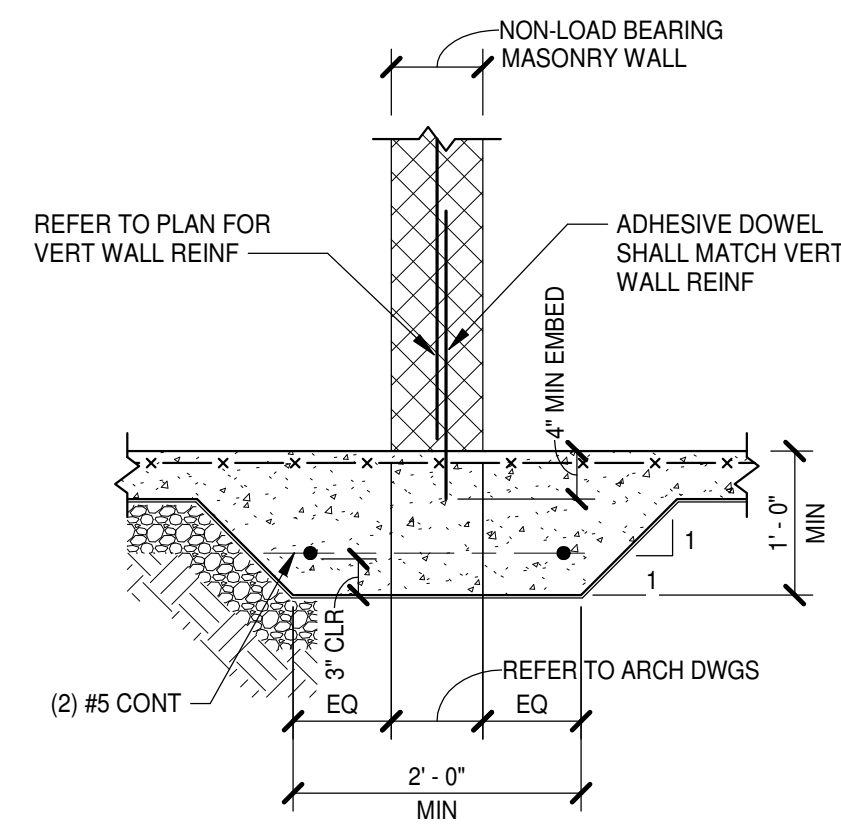
SECTION AT EXTERIOR DOORS



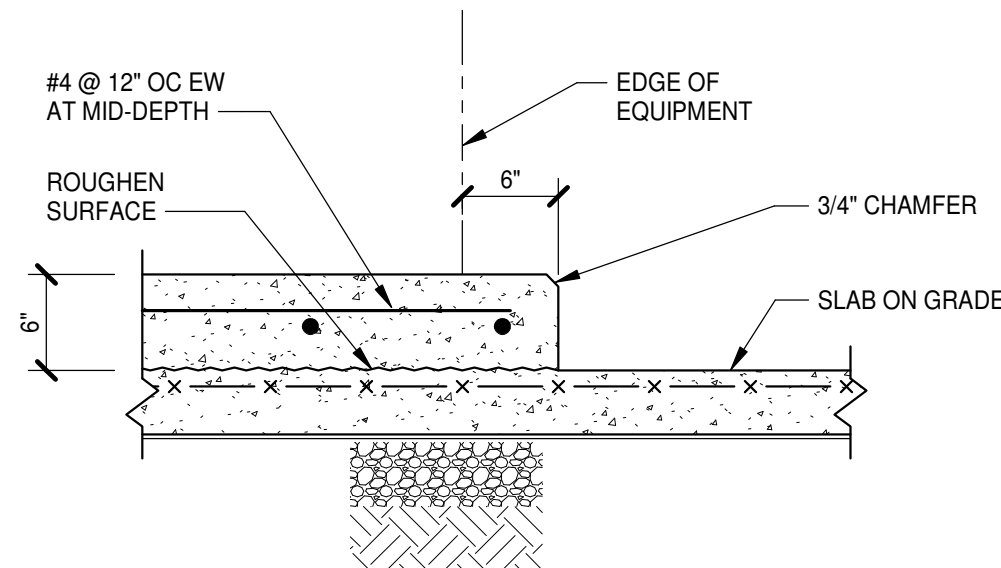
UNREINFORCED WALLS

THICKENED SLAB ON GRADE DETAILS

NO SCALE



NON-LOAD BEARING REINFORCED WALLS

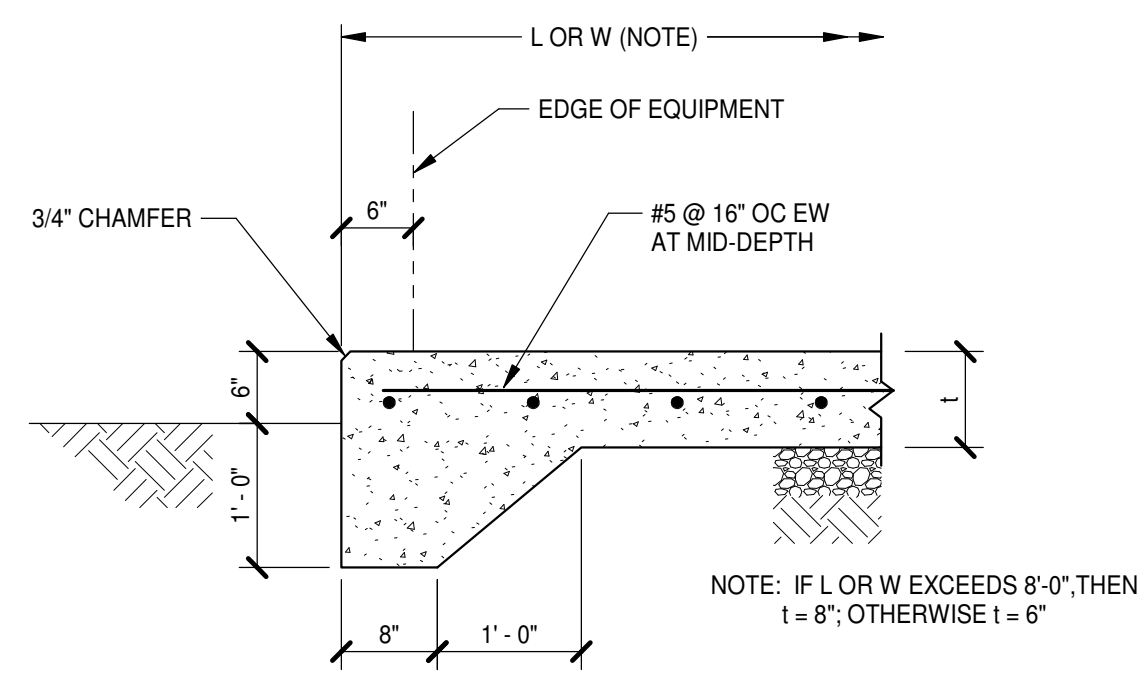


NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING HOUSEKEEPING PAD

HOUSEKEEPING PAD

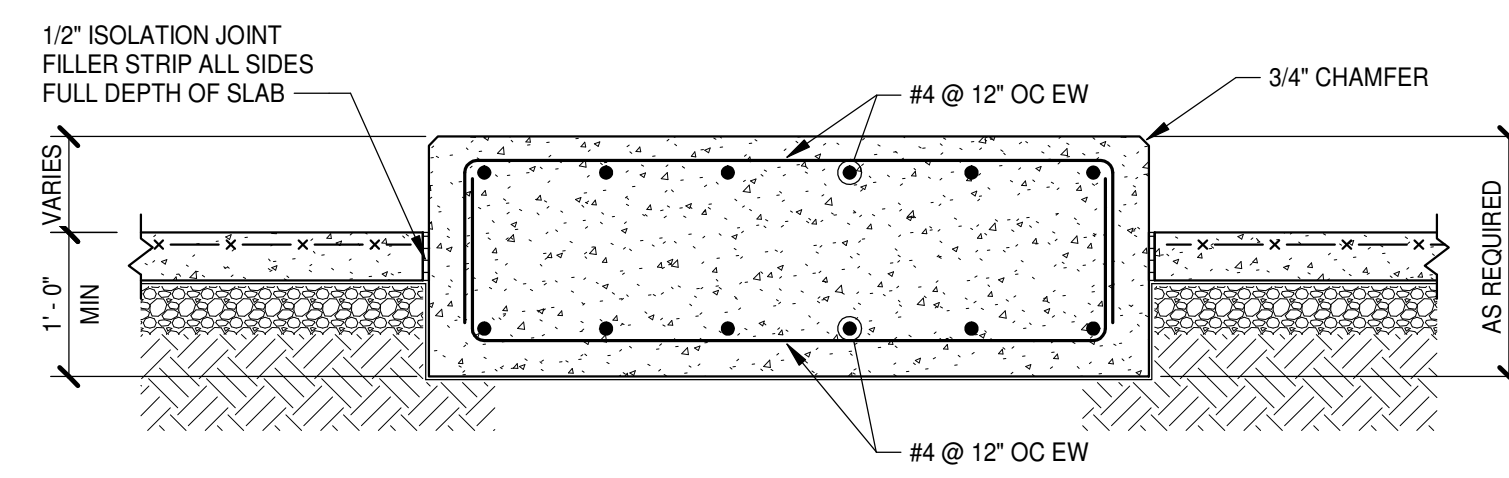
EQUIPMENT PAD DETAILS

NO SCALE



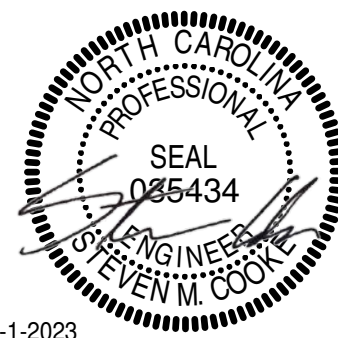
NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING EXTERIOR PAD

EXTERIOR EQUIPMENT PAD



NOTE: REFER TO MECH, ELEC, PLUMBING AND CIVIL DRAWINGS FOR EQUIPMENT REQUIRING CONCRETE PAD

HEAVY EQUIPMENT PAD

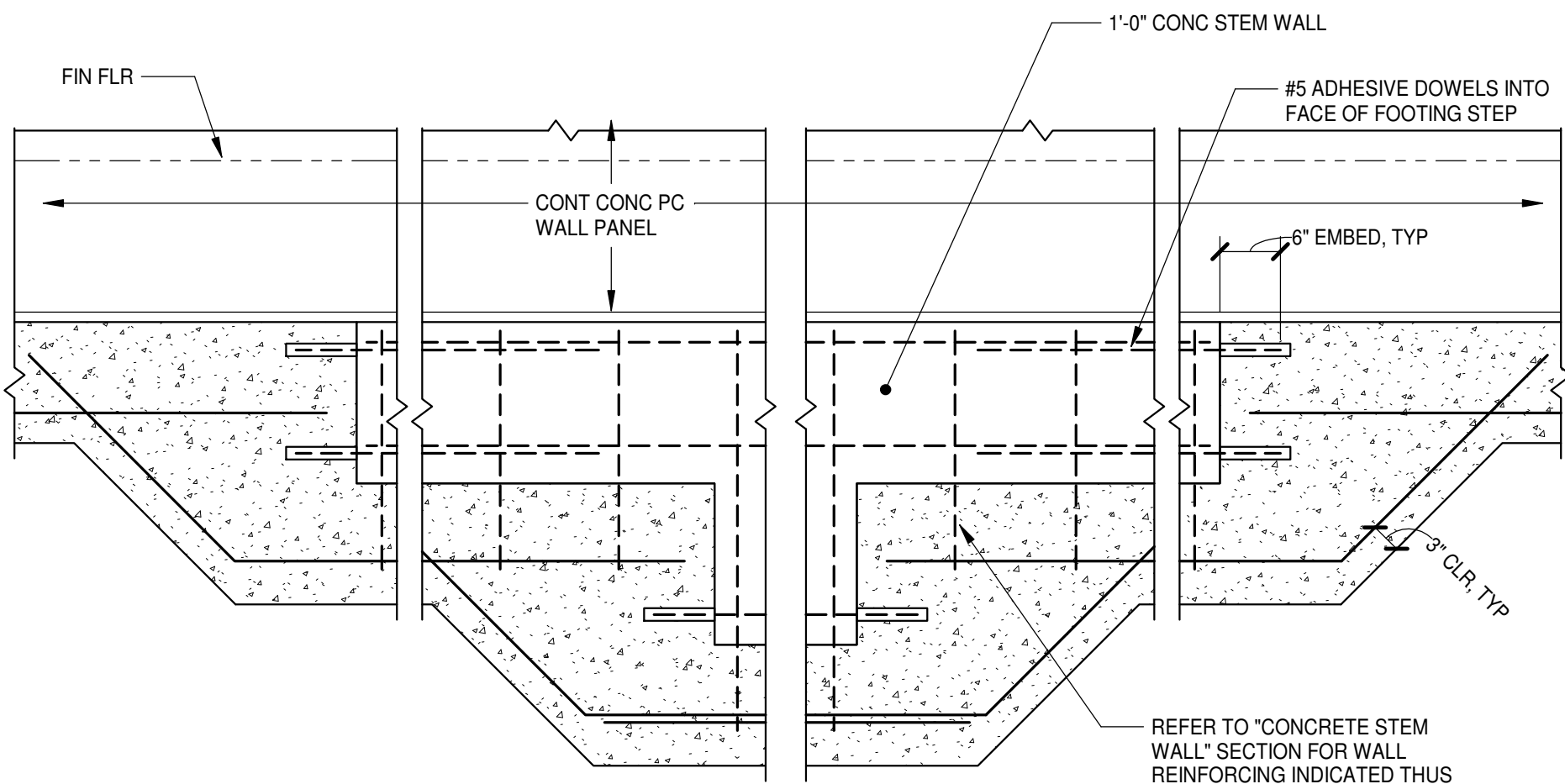


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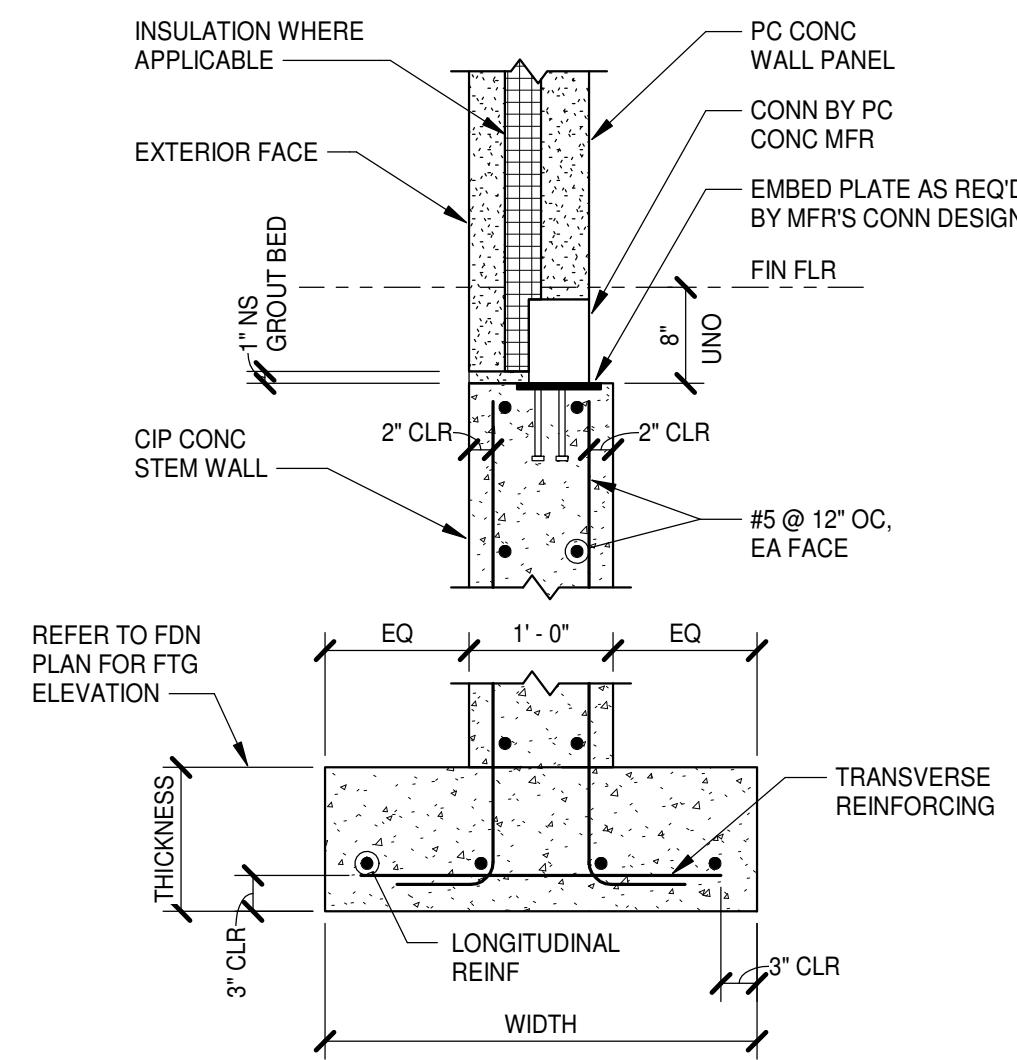
DATE DESCRIPTION



NOTE: PROVIDE 1'-0" CONCRETE STEM WALL FOR CONTINUOUS SUPPORT OF PRECAST WALL PANELS AT FOOTING STEPS.

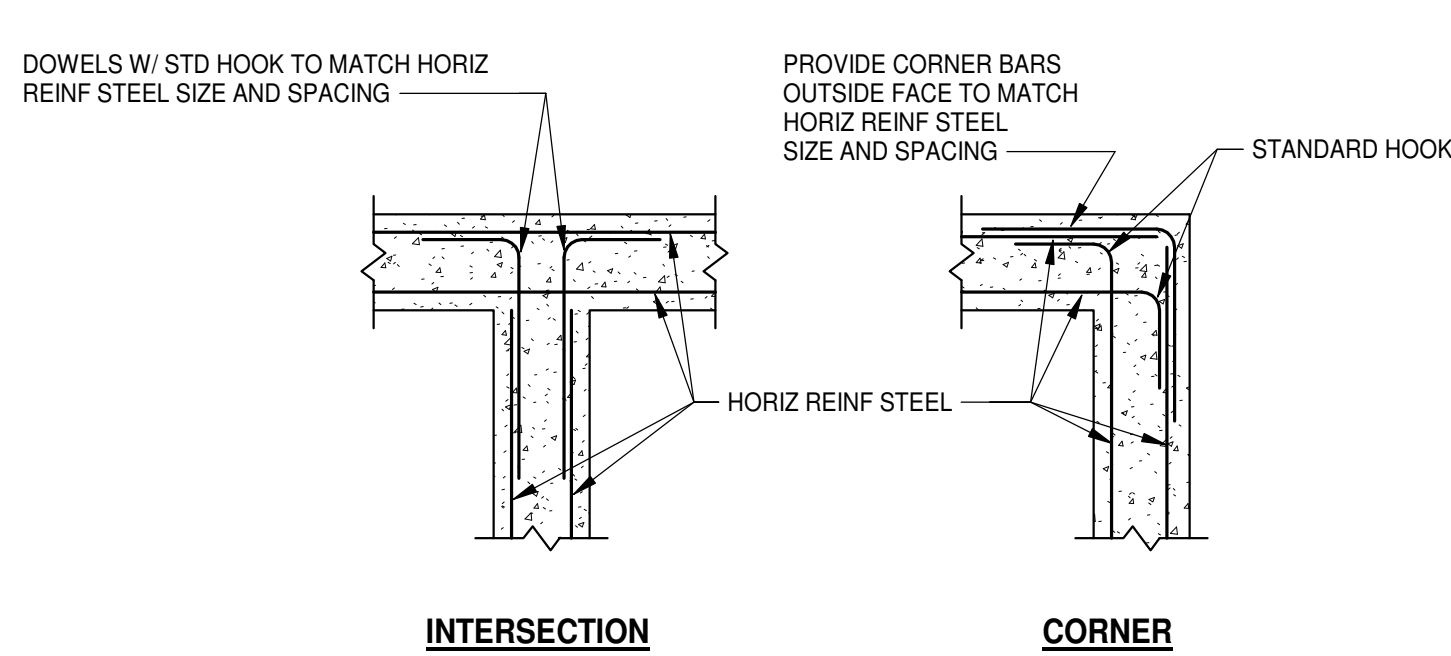
PRECAST WALL AT FOOTING STEPS

NO SCALE



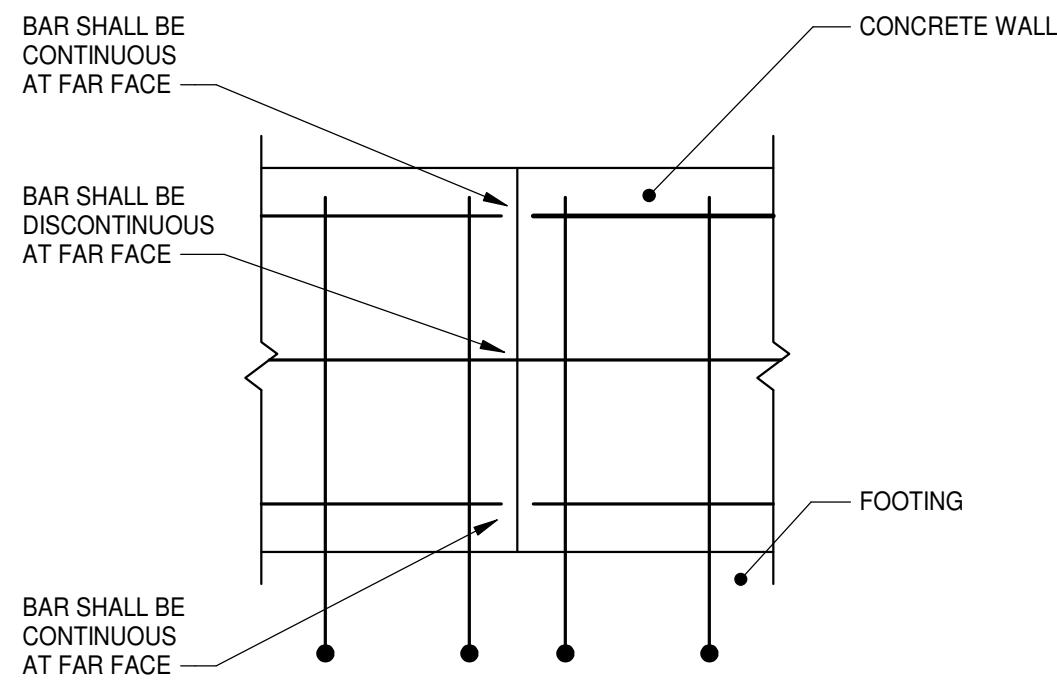
CONCRETE STEM WALL

NO SCALE



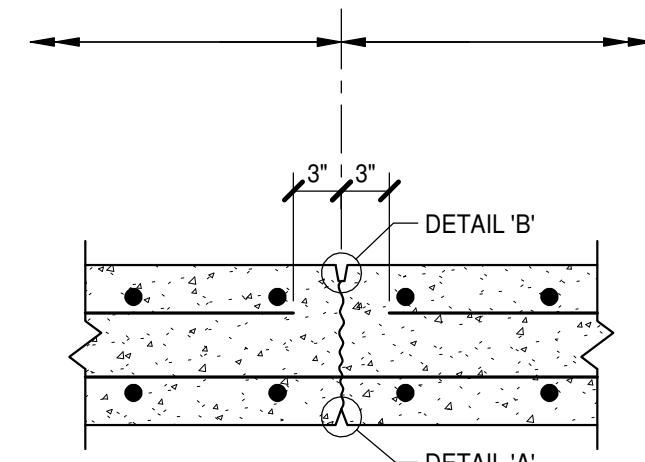
CONCRETE WALL DETAILS

NO SCALE



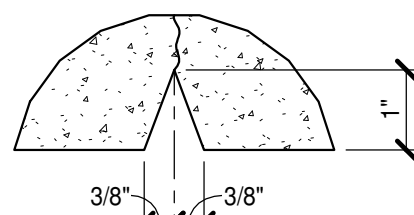
ELEVATION AT CONTROL JOINT

CONTROL JOINTS IN CONCRETE WALLS @ 30'-0" OC MAX



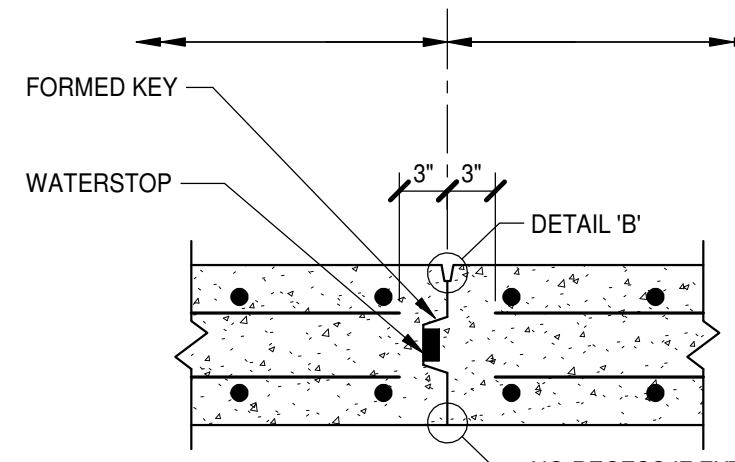
INTERRUPT 1/2 ALL HORIZONTAL WALL REINFORCING AT CONTROL JOINT. ALTERNATE CONTINUOUS REINFORCING IN EACH HORIZONTAL CURTAIN.

CONTROL JOINT



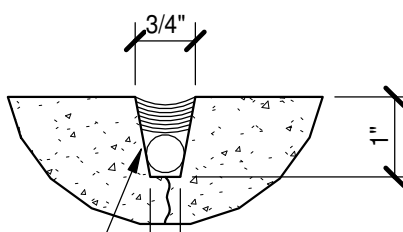
DETAIL 'A'

CONSTRUCTION JOINTS MAY REPLACE CONTROL JOINTS AT CONTRACTORS OPTION



INTERRUPT ALL HORIZONTAL WALL REINFORCING AT CONSTRUCTION JOINT.

CONSTRUCTION JOINT

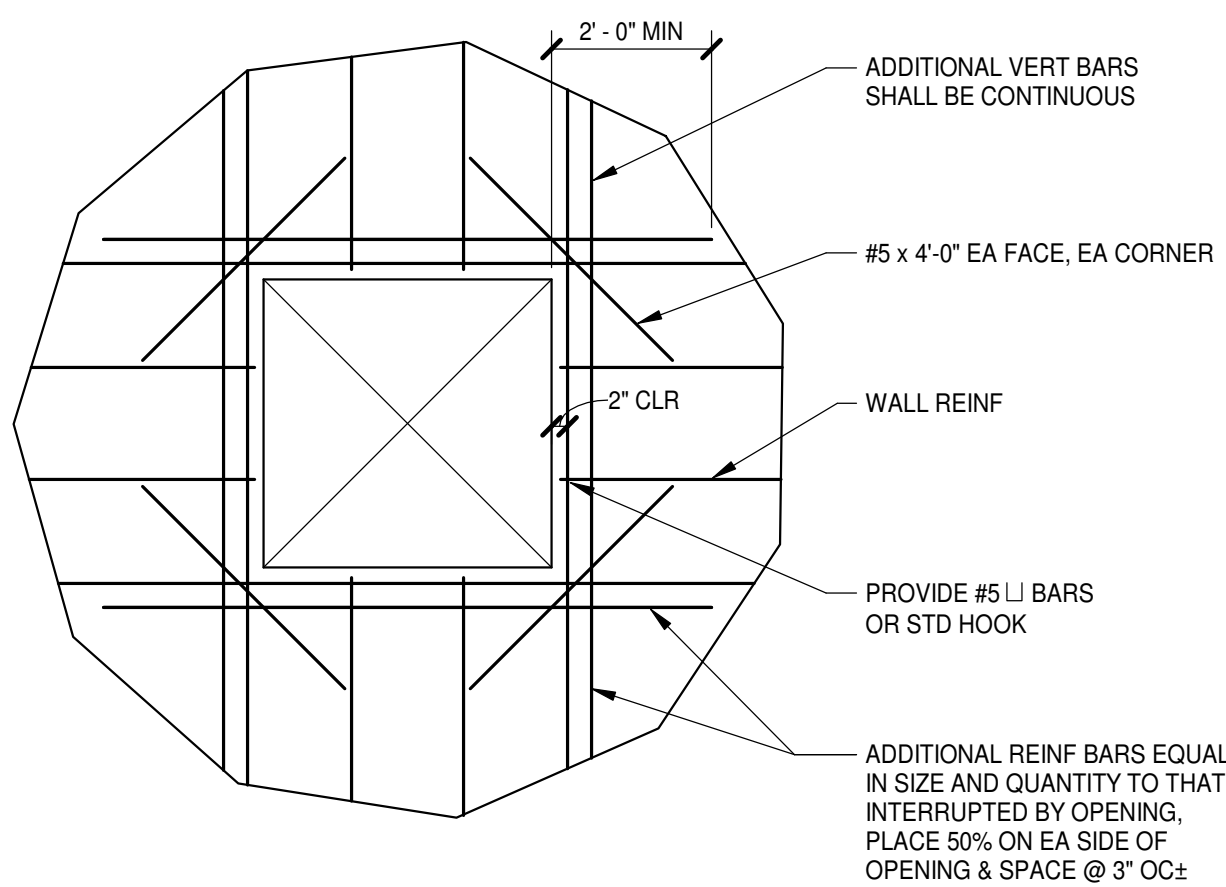


DETAIL 'B'

DETAIL 'A' APPLIES AT:
1. INTERIOR FACE IF SEALANT IS NOT INDICATED
DETAIL 'B' APPLIES AT:
1. INTERIOR FACE IF SEALANT IS INDICATED
2. EXTERIOR FACE IF EXPOSED

CIP CONCRETE WALL CONTROL & CONSTRUCTION JOINT DETAILS

NO SCALE



NOTE: NOT REQUIRED FOR OPENINGS < 12".

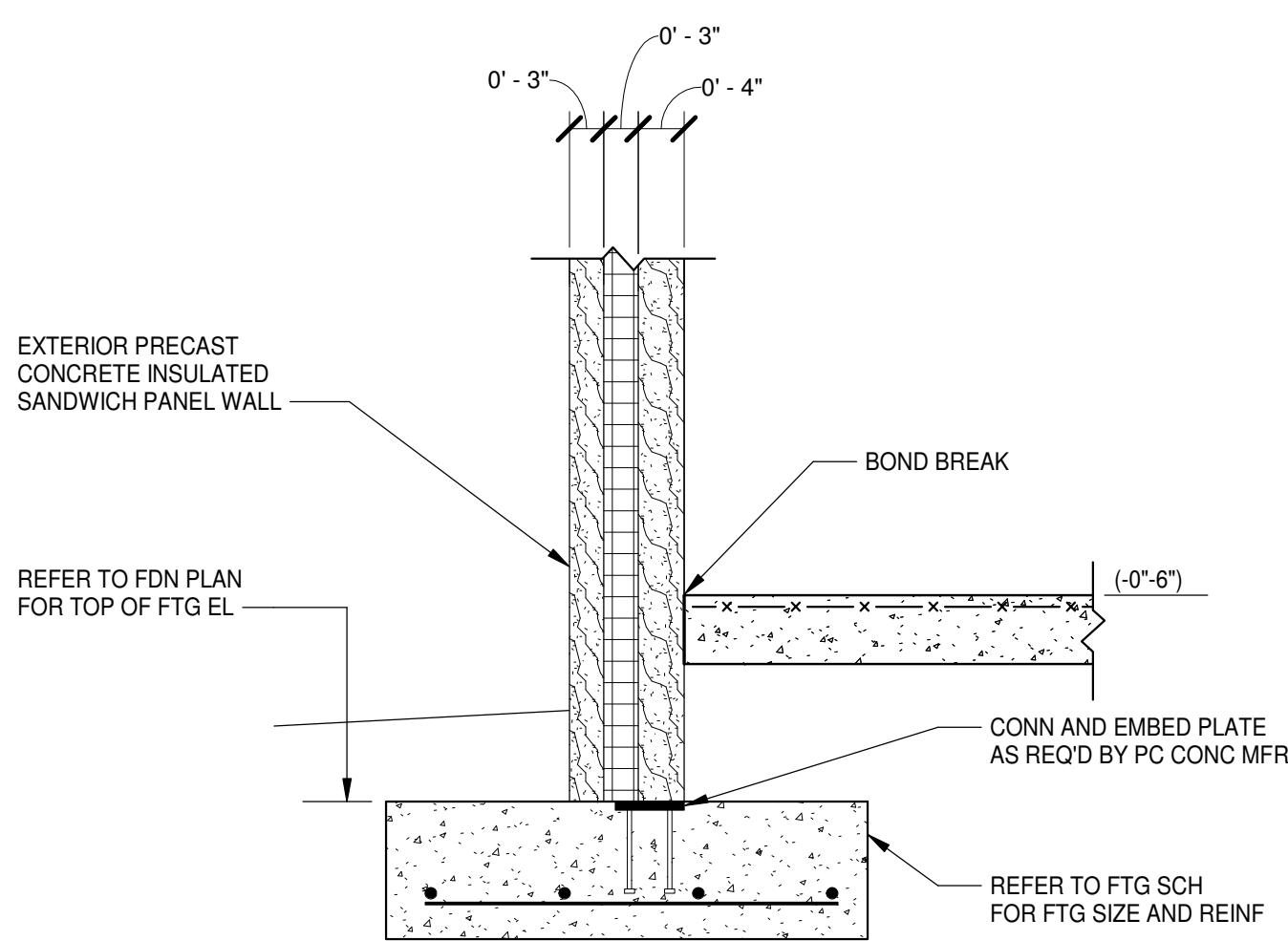
OPENING IN CONCRETE WALL

NO SCALE

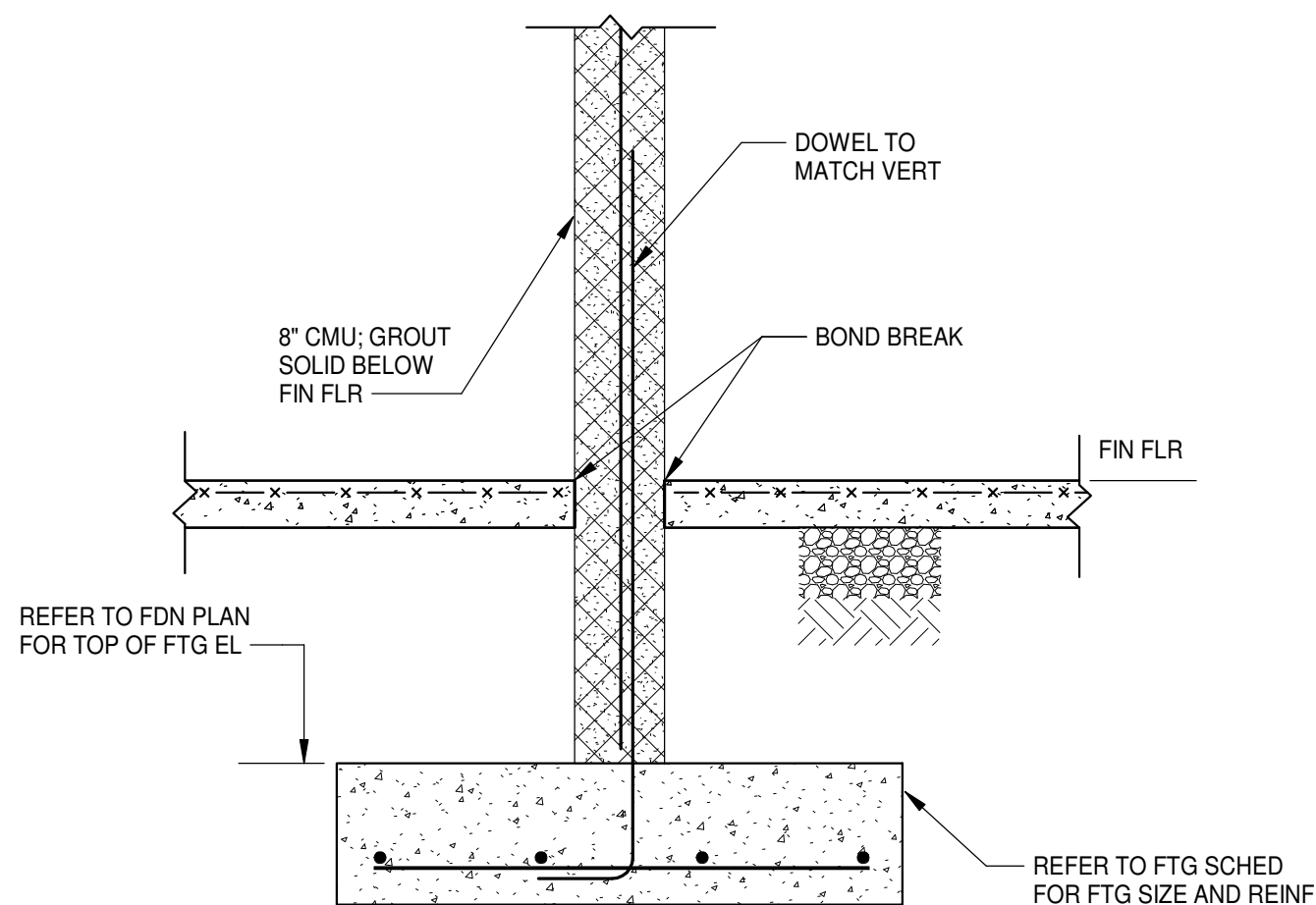


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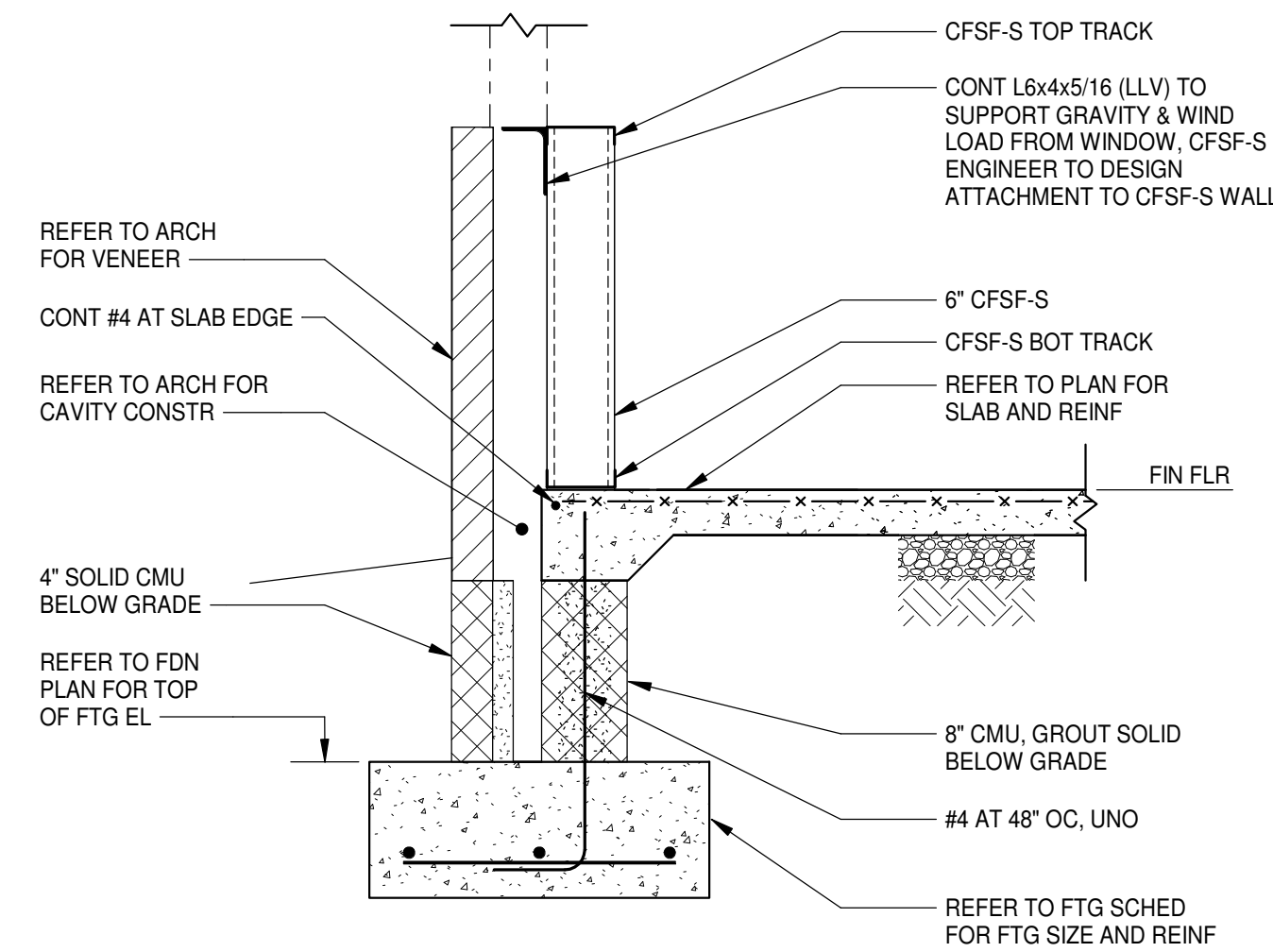
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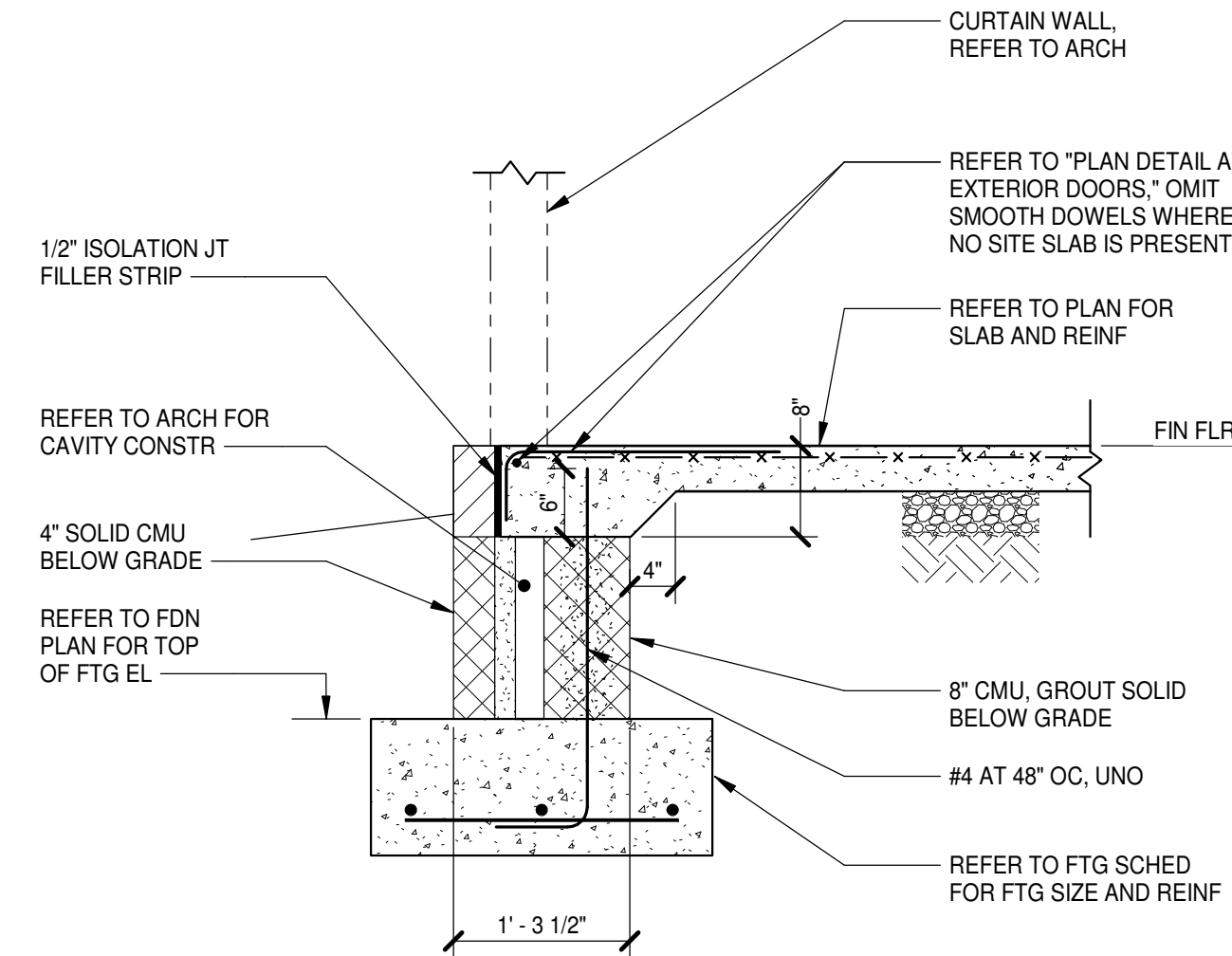
5 SECTION
S1.1.2 S3.1.1 3/4" = 1'-0"



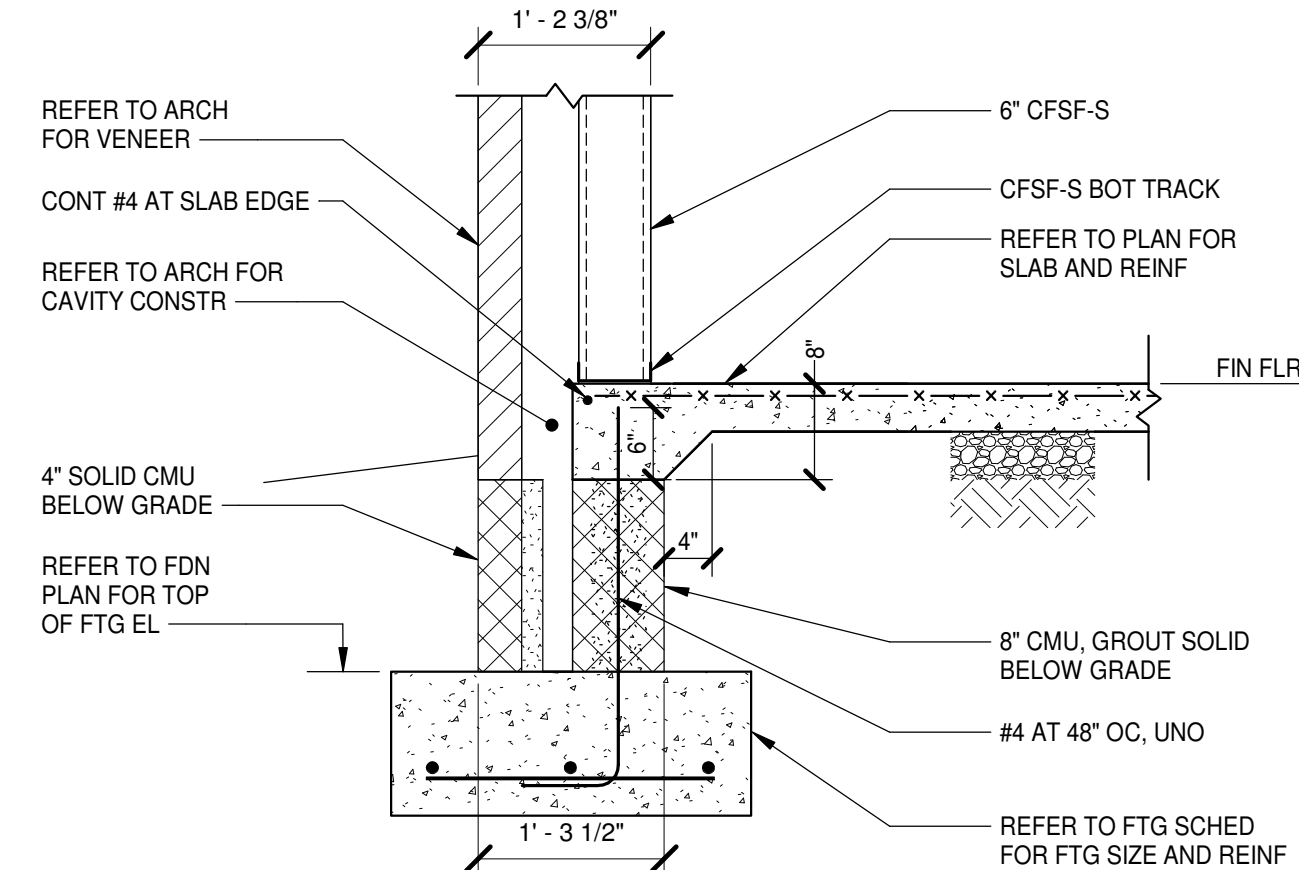
6 SECTION
S1.1.2 S3.1.1 3/4" = 1'-0"



3 SECTION
S1.1.1 S3.1.1 3/4" = 1'-0"



2 SECTION
S1.1.1 S3.1.1 3/4" = 1'-0"



1 SECTION
S1.1.1 S3.1.1 3/4" = 1'-0"

S3.1.1

FOUNDATION SECTIONS

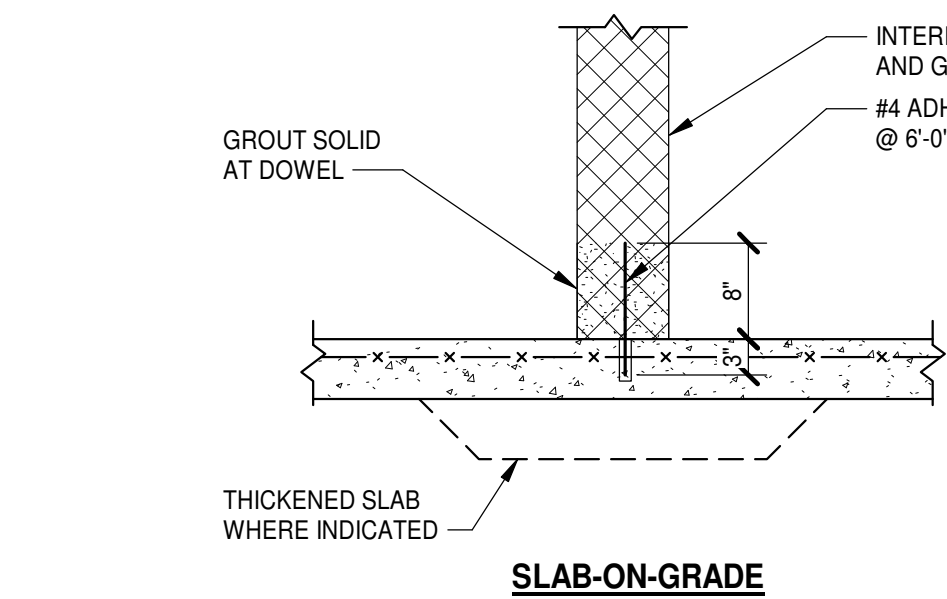
PROJECT NO: 600646	
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DATE	DESCRIPTION

PUBLIC SAFETY TRAINING CENTER
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

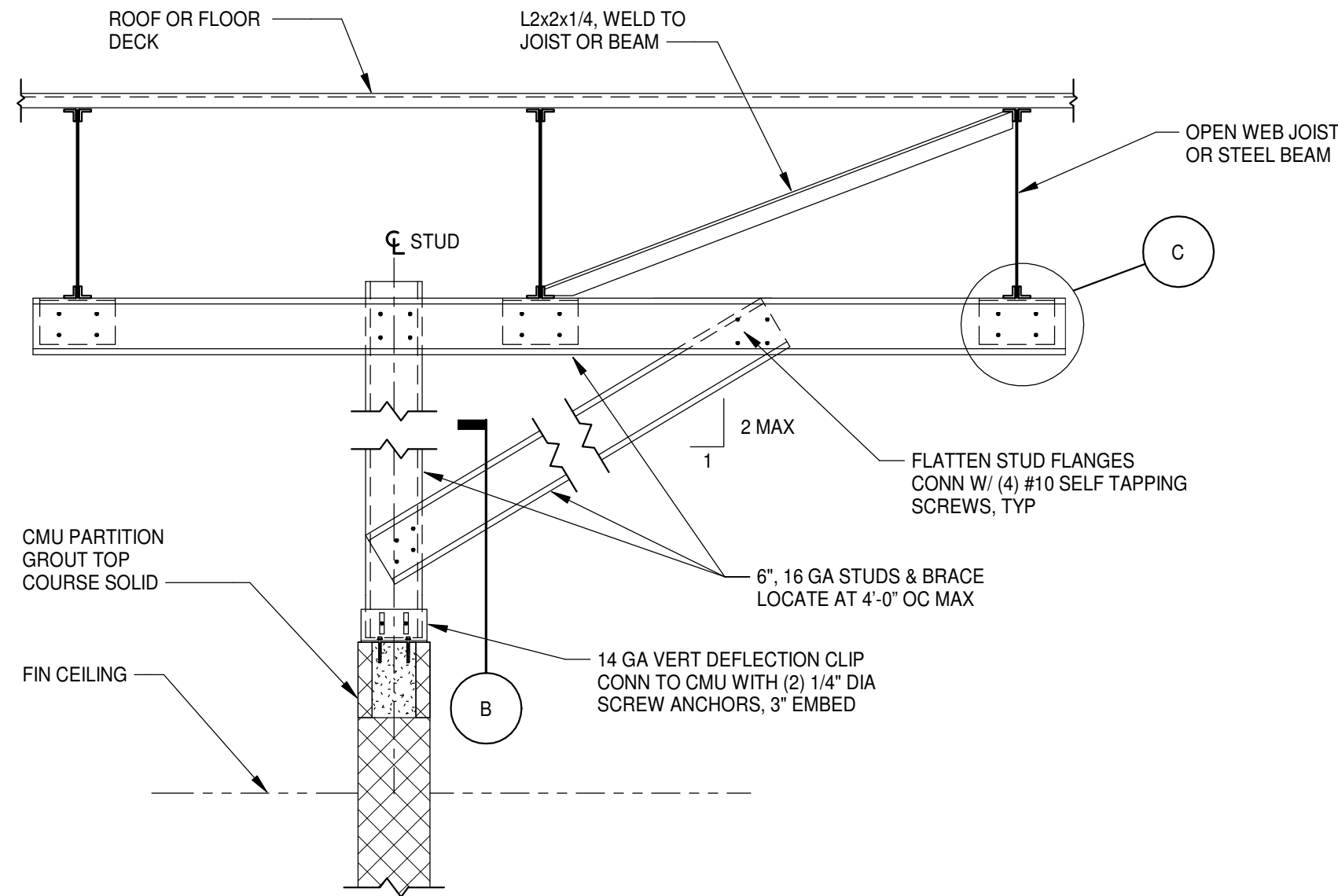


MOSELEYARCHITECTS

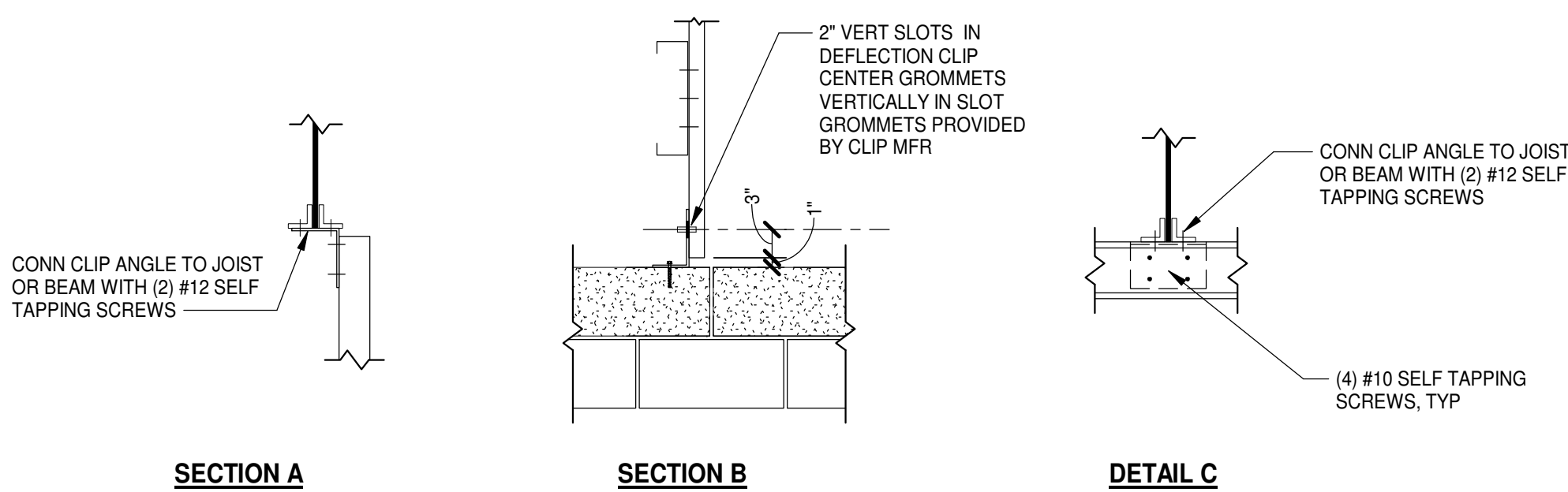
911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0051
MOSELEYARCHITECTS.COM



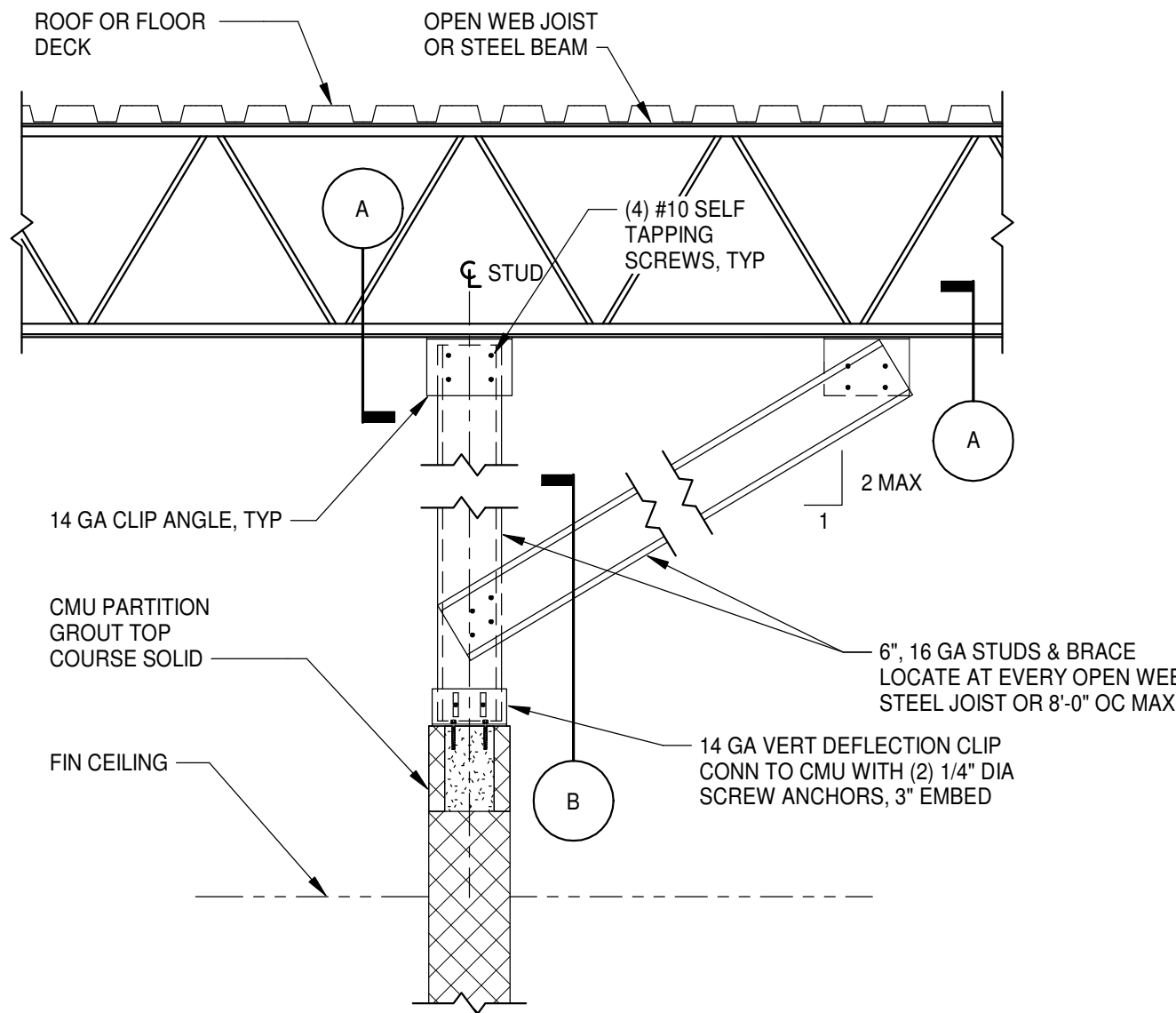
BASE ANCHORAGE OF UNREINFORCED CMU WALLS
NO SCALE



LOW WALL PARALLEL TO JOIST OR BEAM

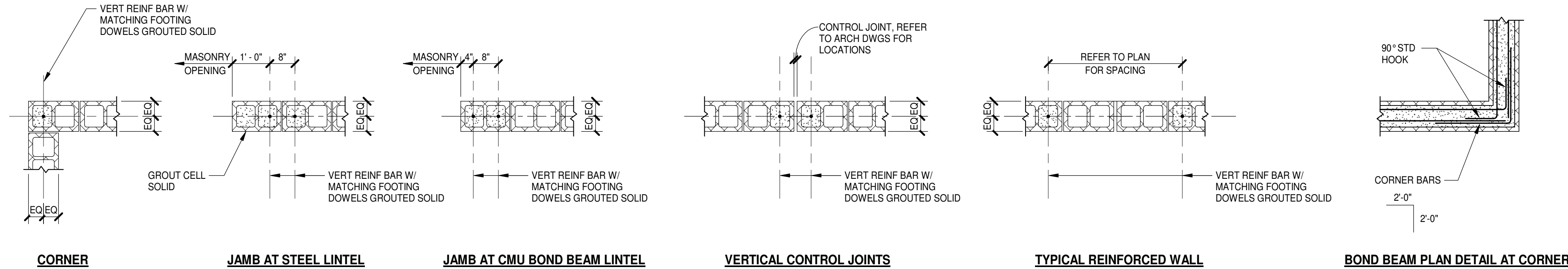


BRACING DETAILS FOR NON-LOAD BEARING
INTERIOR MASONRY PARTITIONS
NO SCALE



LOW WALL PERPENDICULAR TO JOIST OR BEAM

- NOTES:
- BRACE INTERIOR NON-LOAD BEARING MASONRY WALLS IN ACCORDANCE WITH THESE DETAILS UNLESS OTHERWISE INDICATED.
 - IN LIEU OF BRACING AT TOPS OF WALLS, BRACING MAY BE PROVIDED BY INTERSECTING MASONRY WALLS WHEN THE DISTANCE BETWEEN THE INTERSECTING WALLS DOES NOT EXCEED THE FOLLOWING:
- | NOMINAL THICKNESS OF BRACED WALLS | MAXIMUM SPACING BETWEEN INTERSECTING WALLS |
|-----------------------------------|--|
| 6" | 16'-0" |
| 8" | 22'-0" |
| 10" | 28'-0" |
| 12" | 30'-0" |
- BRACING IS REQUIRED IN ACCORDANCE WITH THESE DETAILS IF A VERTICAL CONTROL JOINT OCCURS BETWEEN INTERSECTING WALLS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR INTERIOR PARTITION TYPES AND LOCATIONS.
 - INSTALL BRACING AFTER ALL ROOF DEAD LOAD IS IN PLACE.



- NOTES:
- REINFORCING BAR SIZE INDICATED ON FOUNDATION PLAN.
 - DETAILS ARE PROVIDED FOR VERTICAL REINFORCING STEEL PLACEMENT ONLY. REFER TO ARCHITECTS DRAWINGS FOR SPECIFIC MASONRY DETAILS.
 - DO NOT PLACE CONDUIT IN CELLS CONTAINING STRUCTURAL REINFORCING.

CMU WALL REINFORCING DETAILS
NO SCALE

LINTEL SCHEDULE					
MARK	DIAGRAM	BOND BEAM (W x H)	REINFORCING	STEEL	NOTES
L1		8 x 16	(2) #5 CONT BOT		
L2				L6x6x5/16 LOOSE LINTEL	8" END BEARING
L3				CFSF-S HEADER	

LINTEL NOTES

- LINTELS FOR ARCHITECTURAL OPENINGS (WINDOWS, DOORS, LOUVERS) IN BEARING WALLS AND EXTERIOR WALLS ARE IDENTIFIED BY MARK NUMBER ON THE FRAMING PLAN(S) AND INCLUDED IN THE LINTEL SCHEDULE.
- LINTELS FOR ARCHITECTURAL OPENINGS IN NON-LOAD BEARING WALLS AND OTHER WALLS WHICH ARE NOT INDICATED ON THE FRAMING PLAN(S) SHALL BE CONSTRUCTED PER NOTES A, B OR C BELOW.

A. STEEL ANGLE LINTELS

PROVIDE ONE ANGLE FOR EACH NOMINAL 4" OF WALL THICKNESS PER THE FOLLOWING SCHEDULE.

MASONRY OPENING	ANGLE SIZE
UP TO 5'-0"	L3 1/2x3 1/2x 5/16
5'-1" TO 6'-0"	L4x3 1/2x 5/16 (LLV)
6'-1" TO 7'-0"	L5x3 1/2x 3/8 (LLV)
OVER 7'-0"	AS DETAILED

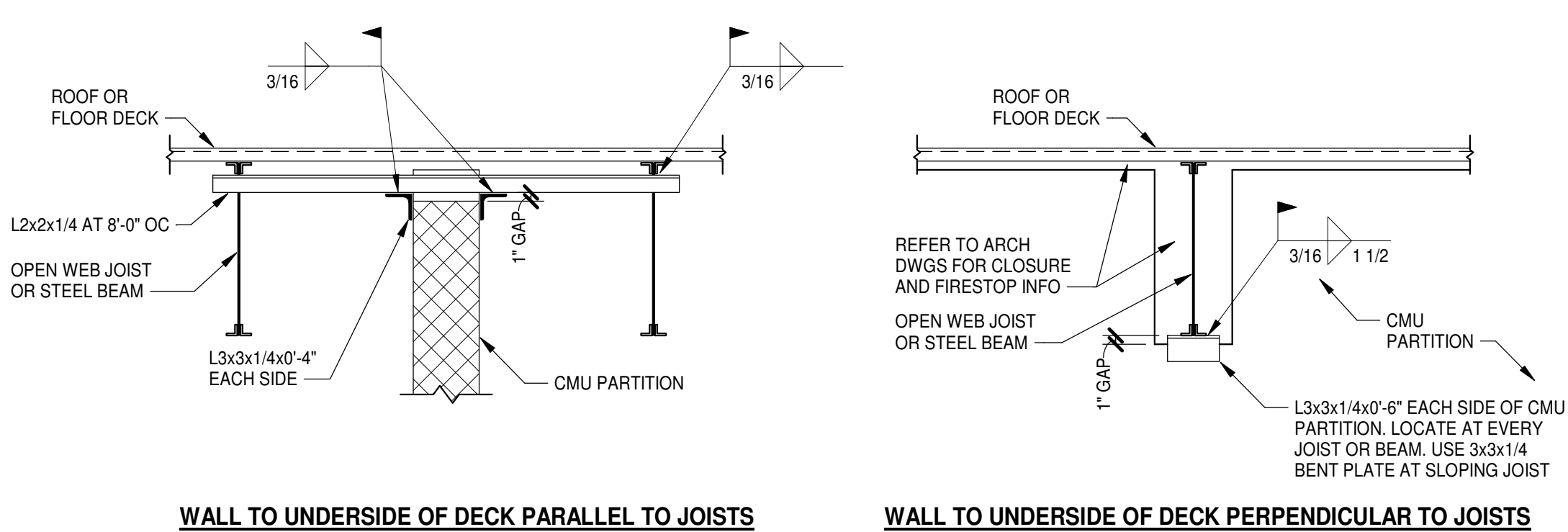
FOR OPENINGS IN 10" CMU, HORIZONTAL LEGS OF ANGLES SHALL BE A COMBINATION OF 5" AND 4".

FOR OPENINGS IN 6" CMU REQUIRING STEEL LINTELS, USE W7x11 UP TO 7'-0" OPENING.

B. REINFORCED BOND BEAM LINTELS

LINTELS SHALL MATCH THICKNESS OF WALL. REINFORCE 8", 10" AND 12" BOND BEAM WITH (2) #5 BARS AT BOTTOM. REINFORCE 6" BOND BEAM WITH (1) #5 BAR AT BOTTOM. BOND BEAM SHALL BE 8" DEEP FOR OPENING WIDTH UP TO 5'-0", AND SHALL BEAR 8" ON SOLID MASONRY EACH END. BOND BEAM SHALL BE 16" DEEP FOR OPENING WIDTH UP TO 8'-0" AND SHALL BEAR 16" ON SOLID MASONRY EACH END WITH REINFORCING TOP AND BOTTOM. PLACE GROUT MONOLITHICALLY IN BOTH COURSES OF 16" DEEP BOND BEAM.- LINTELS FOR MECHANICAL DUCTWORK PENETRATIONS NOT OTHERWISE DETAILED SHALL BE ONE OF THE ABOVE (NOTE 2A, OR 2B).
- LINTELS SHALL BEAR 8" ONTO SOLID OR GROUT FILLED MASONRY, UNLESS OTHERWISE INDICATED.
- LINTELS ARE REQUIRED OVER ALL MASONRY OPENINGS GREATER THAN 8" IN WIDTH.
- LINTELS ARE NOT REQUIRED ABOVE HOLLOW METAL FRAMES IN OPENINGS 3'-4" OR LESS IN 6" NON-BEARING MASONRY PARTITIONS. GROUT HEAD OF FRAMES SOLID BEFORE PLACING MASONRY.
- ALL LINTELS IN EXTERIOR WALLS SHALL BE GALVANIZED.

STEEL LINTEL DETAILS (CMU BACKUP)



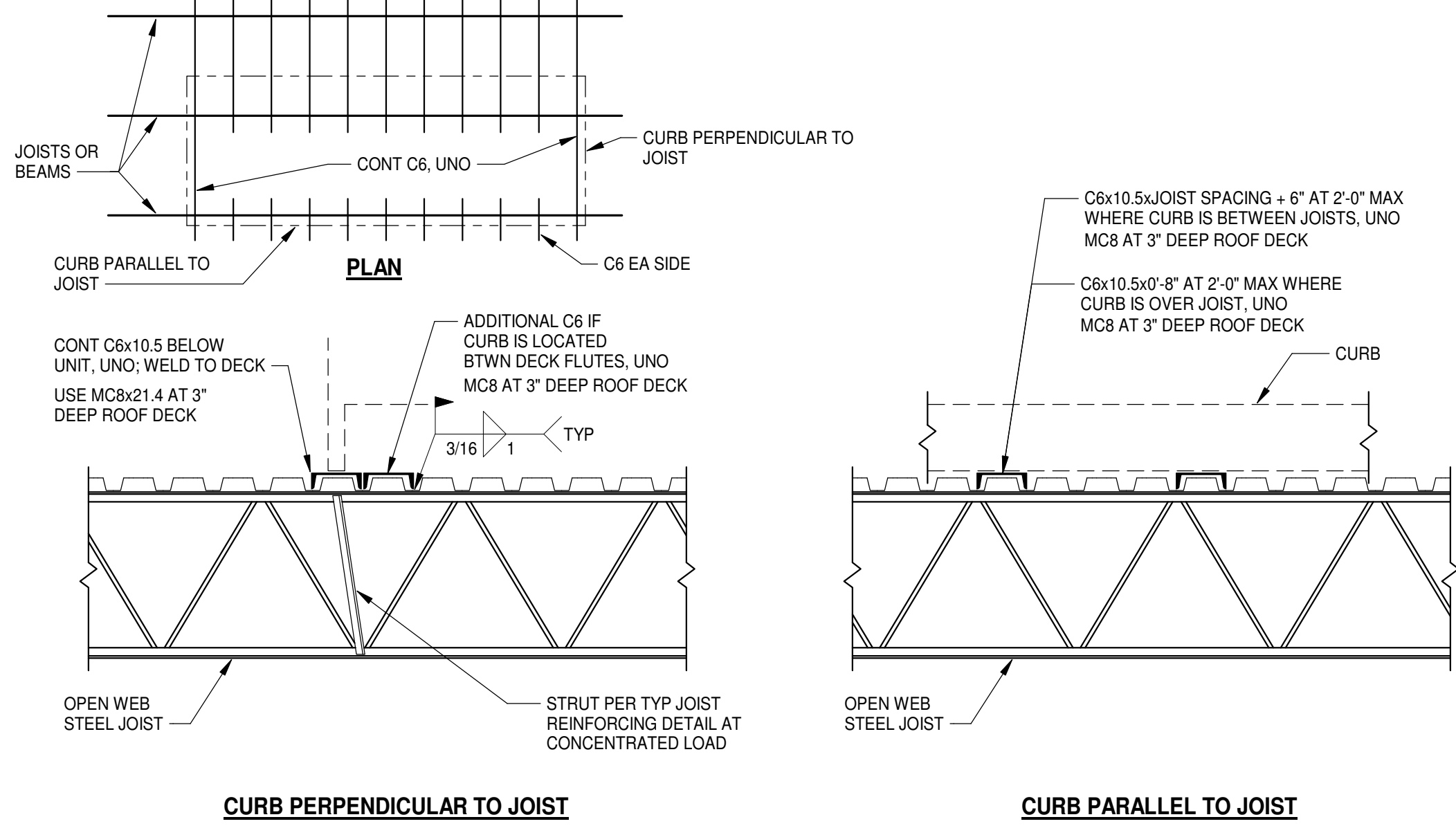
WALL TO UNDERSIDE OF DECK PARALLEL TO JOISTS

WALL TO UNDERSIDE OF DECK PERPENDICULAR TO JOISTS



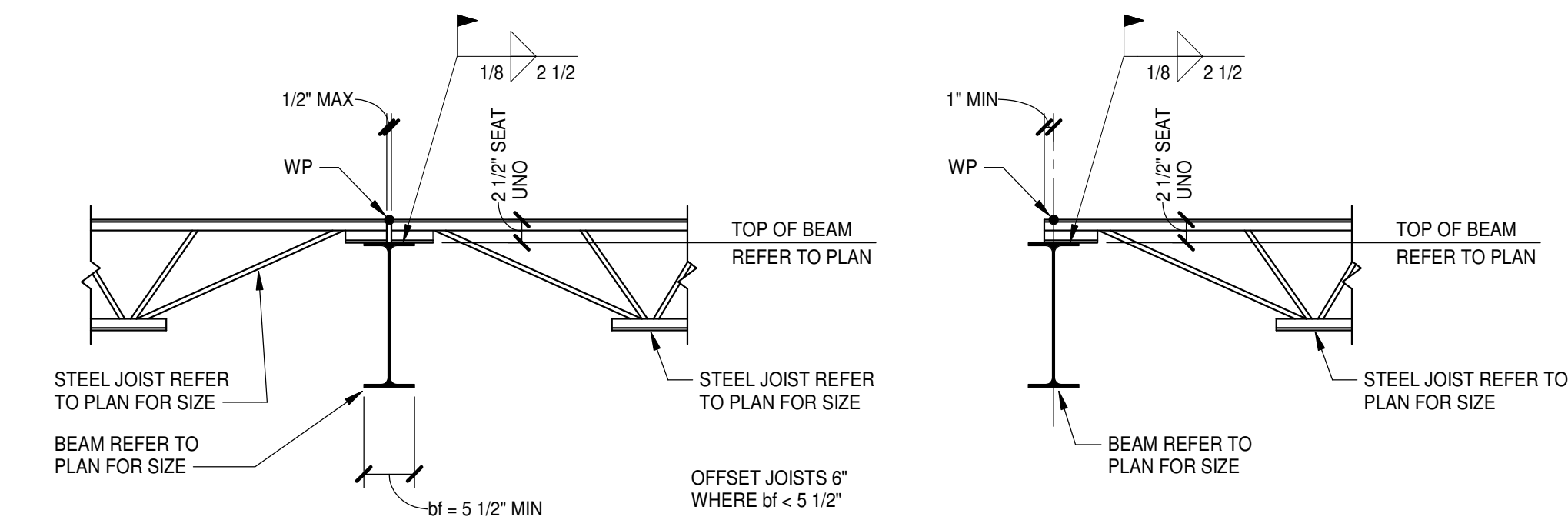
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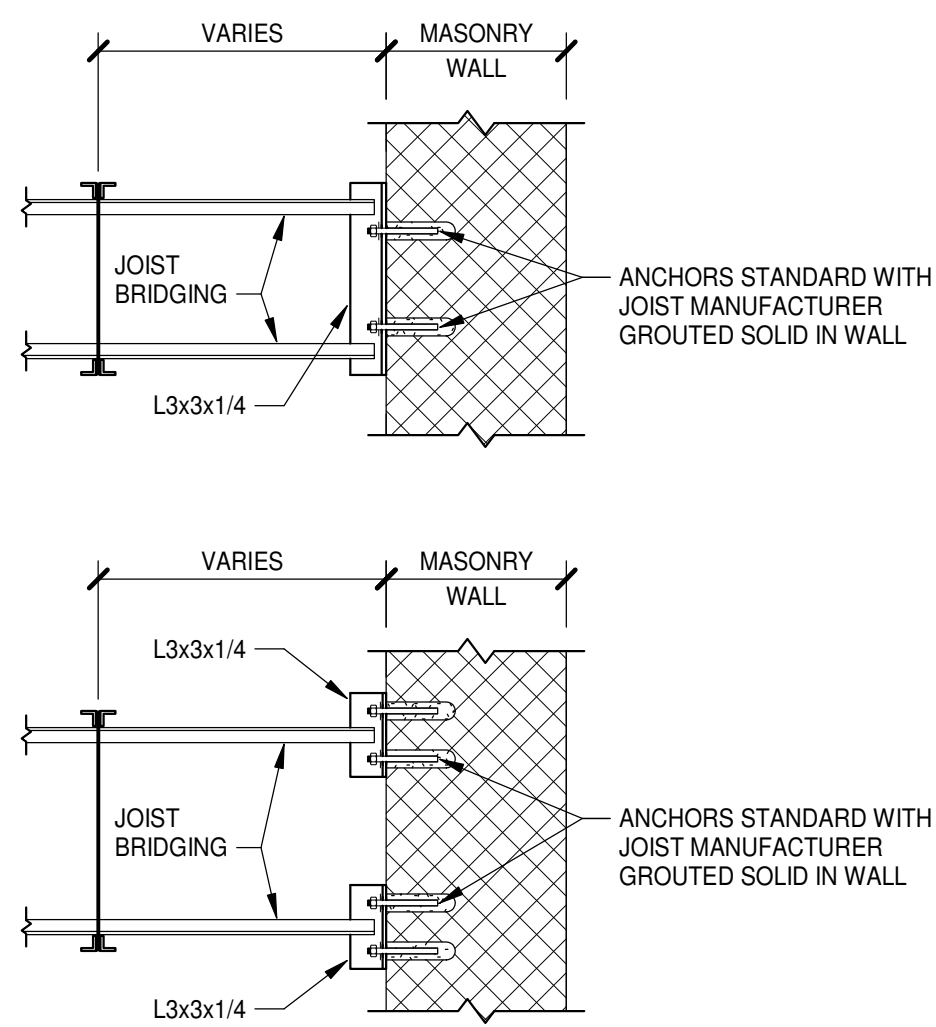
RTU CURB SUPPORT DETAILS

NO SCALE



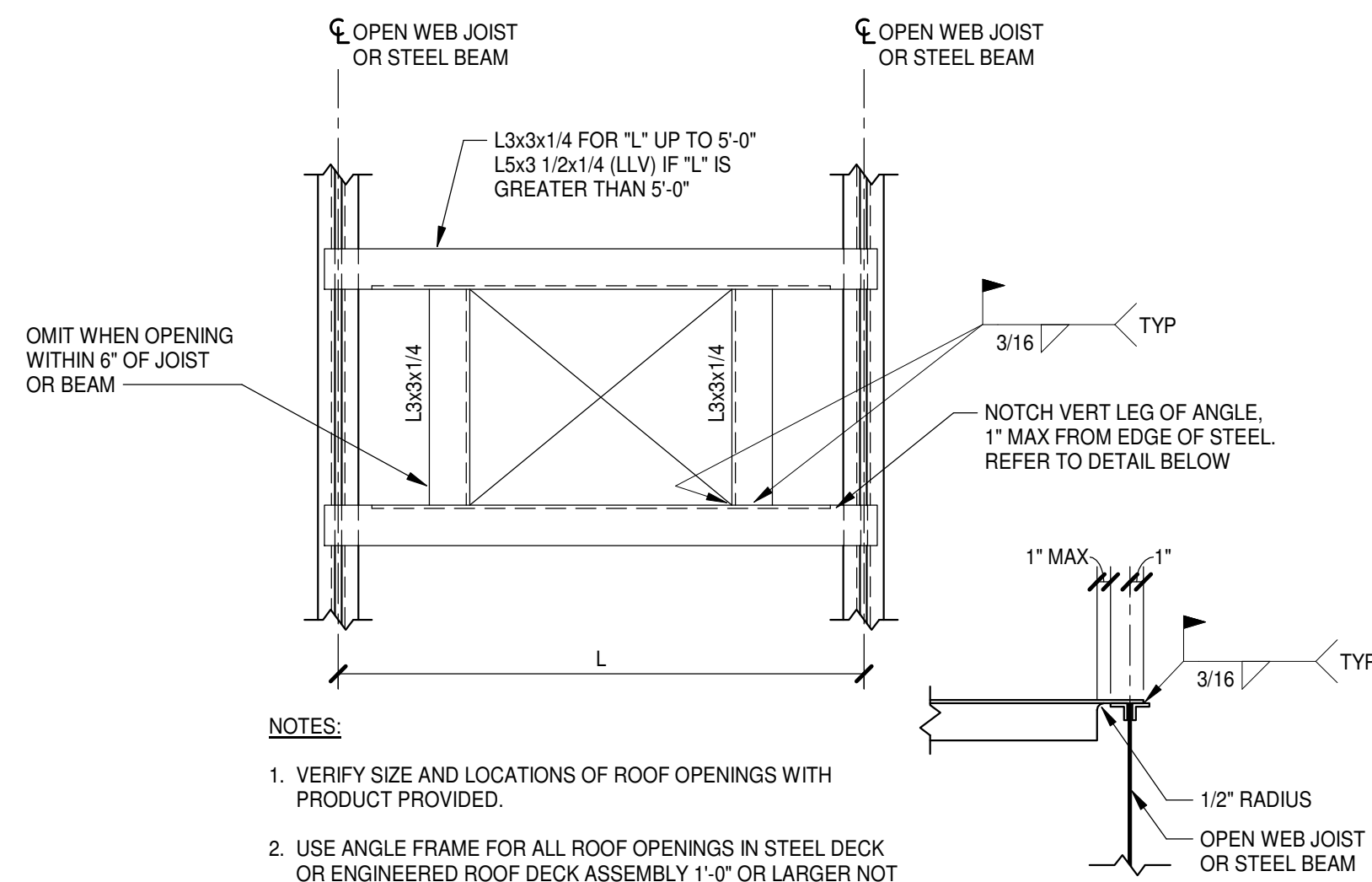
CONNECTION OF K SERIES STEEL JOIST TO STEEL BEAM

NO SCALE



K SERIES STEEL JOIST BRIDGING ANCHORAGE

NO SCALE

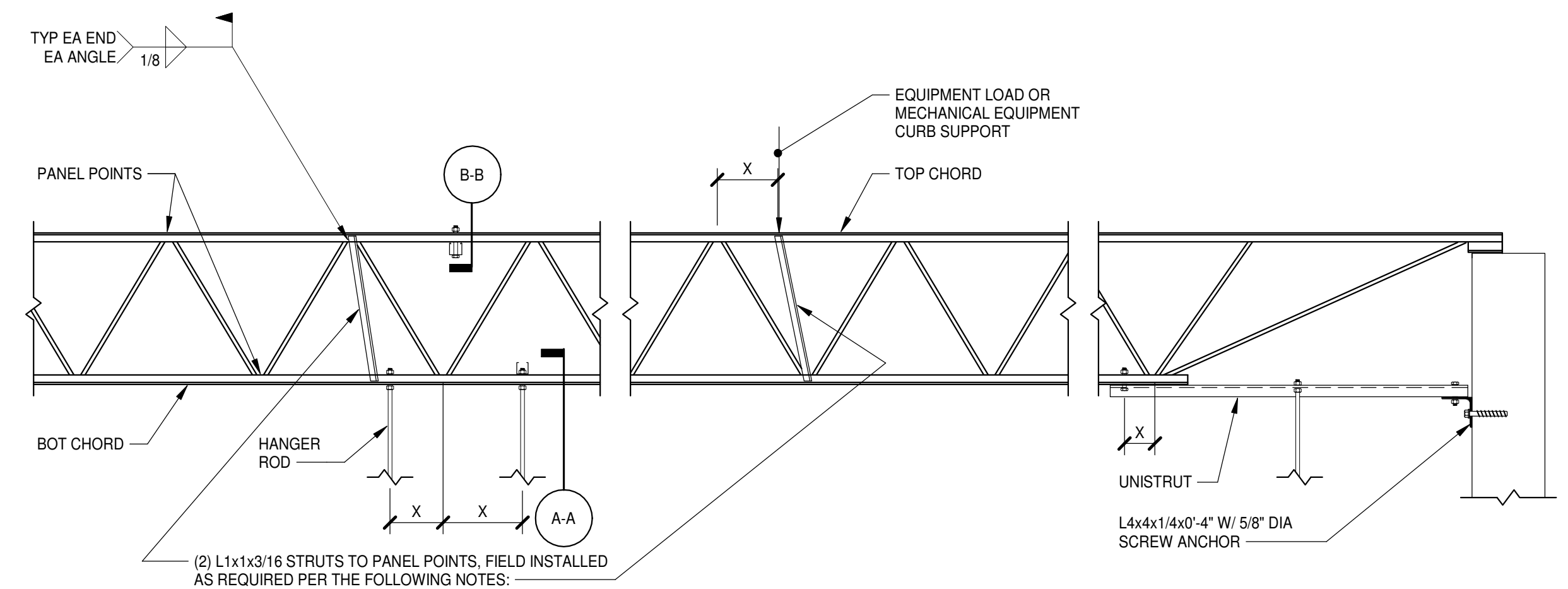


NOTES:

1. VERIFY SIZE AND LOCATIONS OF ROOF OPENINGS WITH PRODUCT PROVIDED.
2. USE ANGLE FRAME FOR ALL ROOF OPENINGS IN STEEL DECK OR ENGINEERED ROOF DECK ASSEMBLY 1'-0" OR LARGER NOT OTHERWISE INDICATED.

ROOF OPENING SUPPORT DETAIL

NO SCALE



K-SERIES JOISTS:

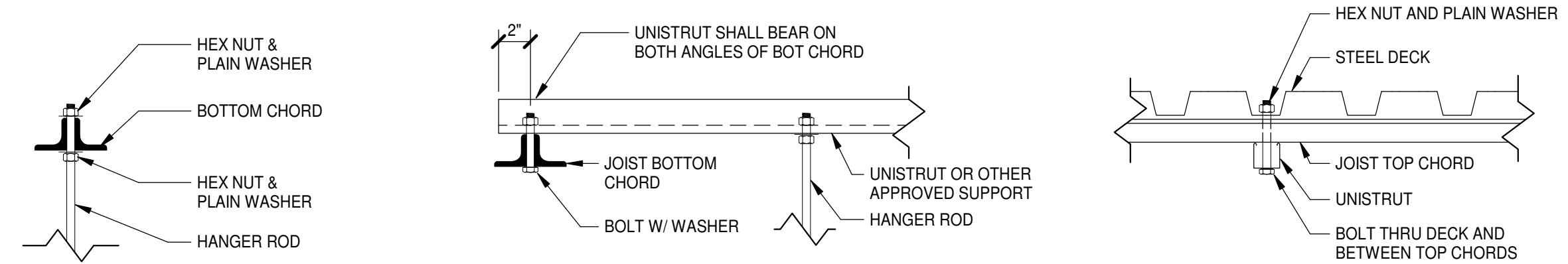
1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 200 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 200 LBS.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 200 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 200 LBS.

KCS AND LH-SERIES JOISTS:

1. WHERE UTILITIES RUN PARALLEL TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD (IF DIRECTLY BELOW JOIST), OR UNISTRUT REACTION (IF PIPE IS BETWEEN JOISTS) DOES NOT EXCEED 500 LBS.
2. WHERE UTILITIES RUN PERPENDICULAR TO JOISTS, INDIVIDUAL HANGERS SHALL BE SPACED SUCH THAT HANGER LOAD DOES NOT EXCEED 500 LBS, OR HANGER SHALL BE LOCATED AT EA JOIST.
3. IF INDIVIDUAL HANGER LOAD EXCEEDS 500 LBS ON ANY JOIST, AND DIMENSION 'X' EXCEEDS 6", STRUTS SHALL BE INSTALLED AS INDICATED ABOVE.
4. WHERE MULTIPLE HANGERS ARE LOCATED BETWEEN PANEL POINTS, THE CUMULATIVE LOAD SHALL NOT EXCEED 500 LBS.

GENERAL:

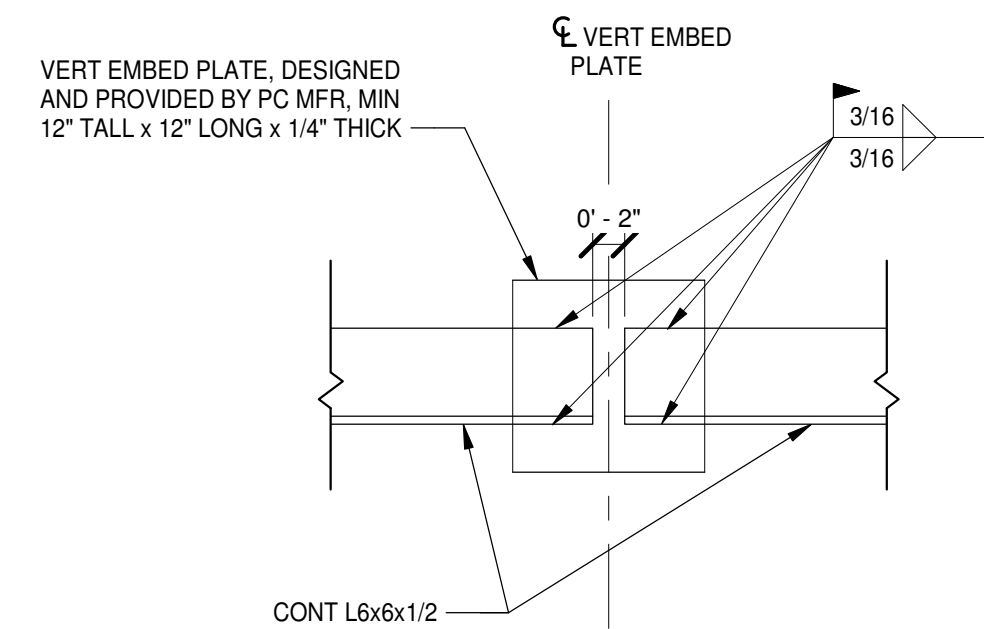
1. C-CLAMPS SHALL NOT BE USED WHERE HANGER LOAD EXCEEDS 50 LBS.
2. REFER TO DRAWING S0.0.1 FOR STEEL JOIST NOTES.



NOTE: CONTRACTOR SHALL PROVIDE DESIGN OF HANGER ASSEMBLY. C-CLAMPS PERMITTED WHEN LOAD IS LESS THAN 50 LBS

TYPICAL LOAD SUPPORTED FROM JOIST DETAIL

NO SCALE



NOTE:

1. VERIFY CENTERLINE OF VERT EMBED PLATE DOES NOT COINCIDE WITH JOIST BEARING TO CONFLICT WITH SPLICE INSTALLATION.

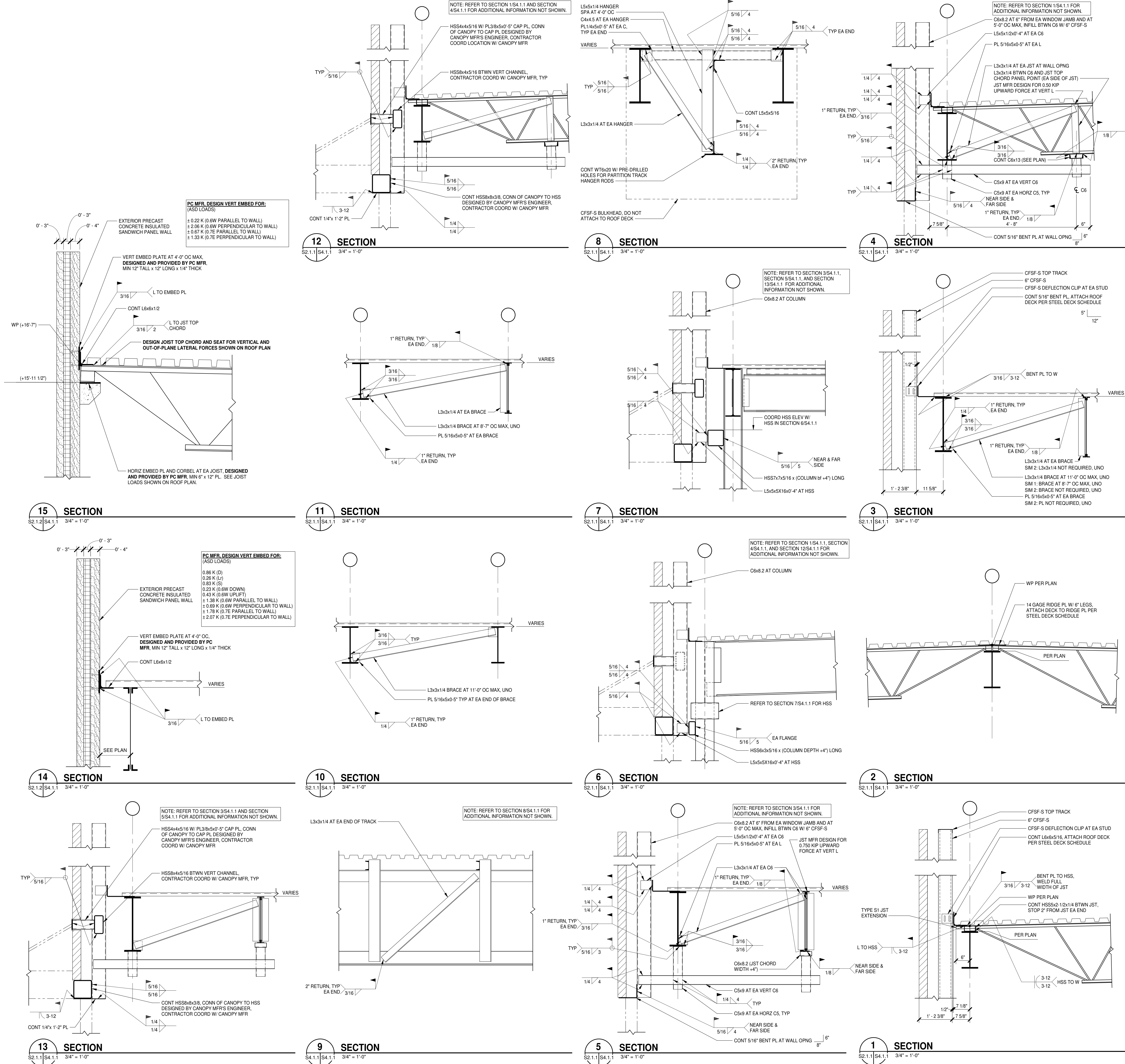
TYPICAL DECK EDGE ANGLE SPLICE

NO SCALE

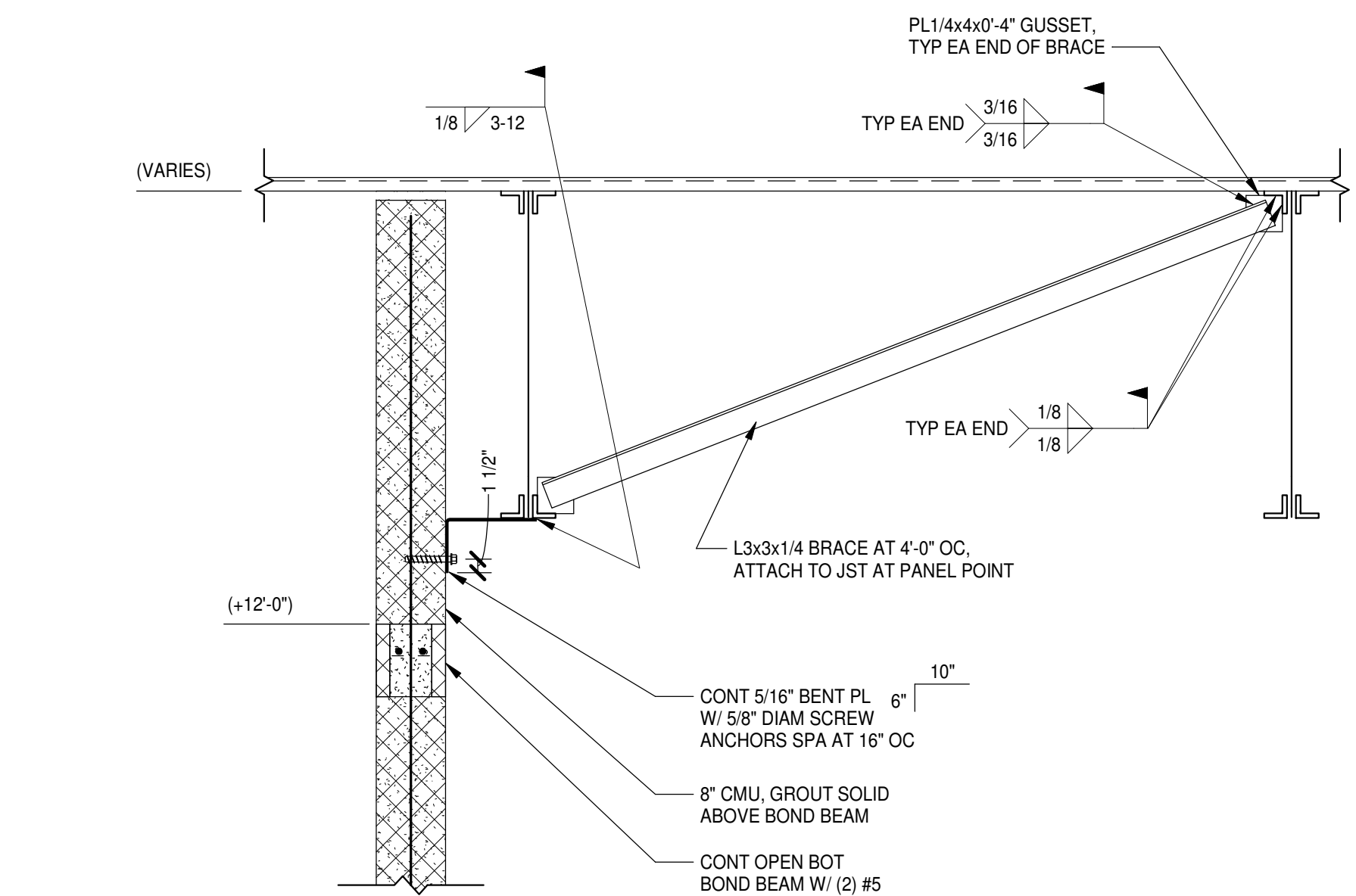


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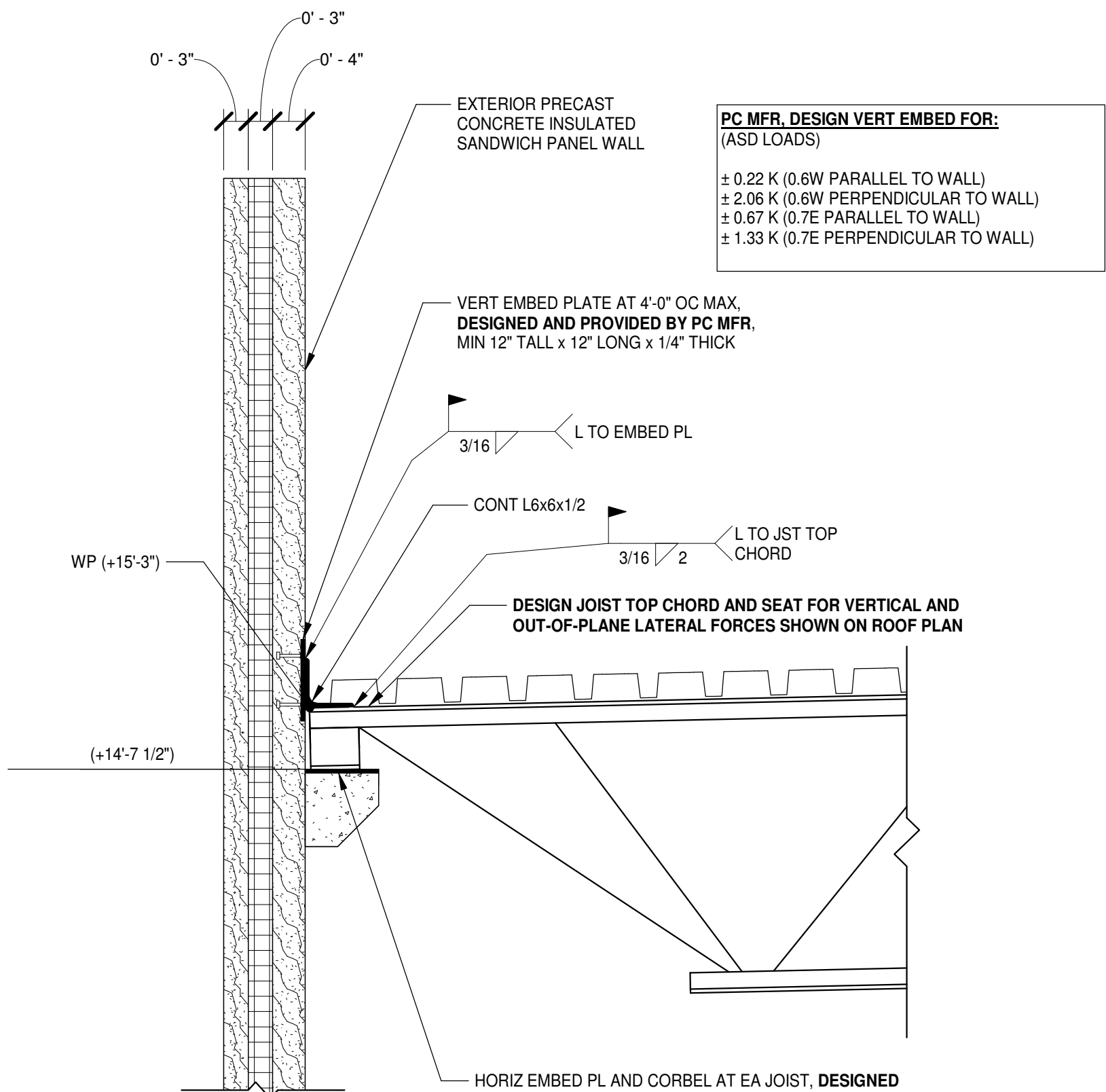
PROJECT NO: 600646	DATE: AUGUST 14, 2023
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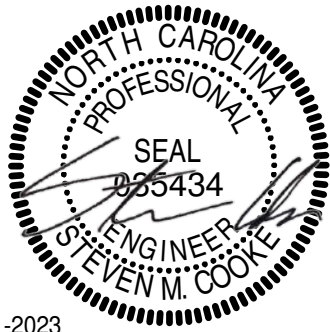
PROJECT NO:	600646
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2 SECTION
S2.1.2 | S4.1.2 3/4" = 1'-0"



1 SECTION
S2.1.2 | S4.1.2 3/4" = 1'-0"

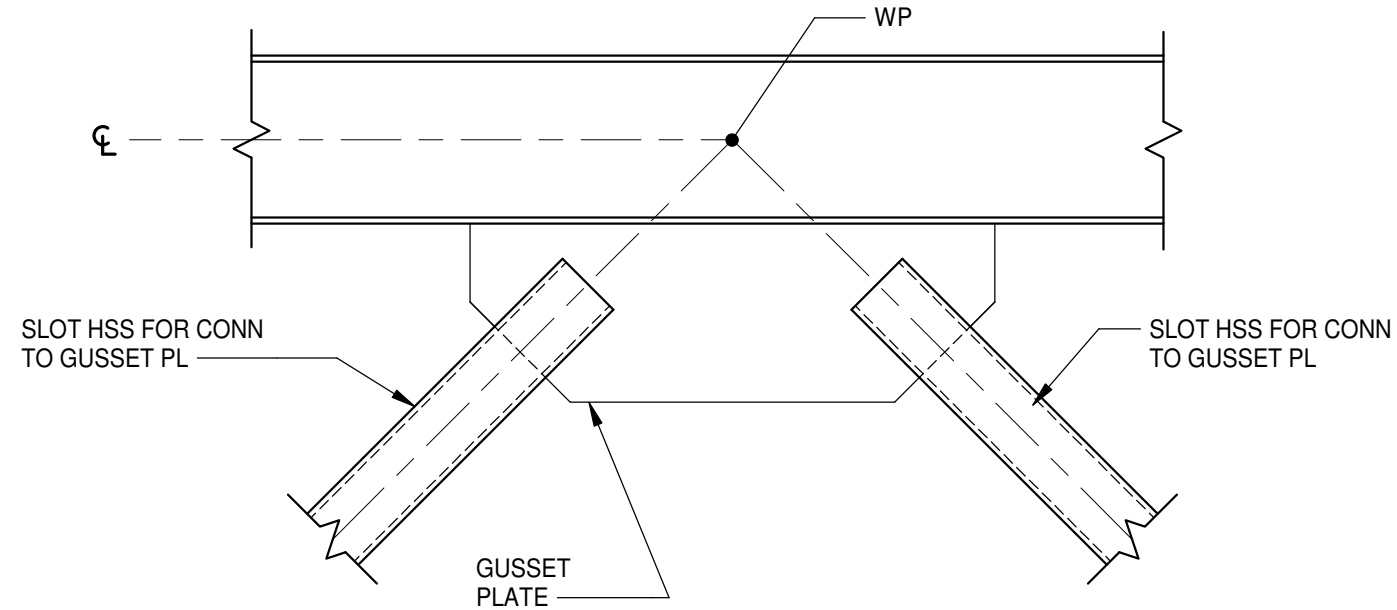


PUBLIC SAFETY TRAINING CENTER

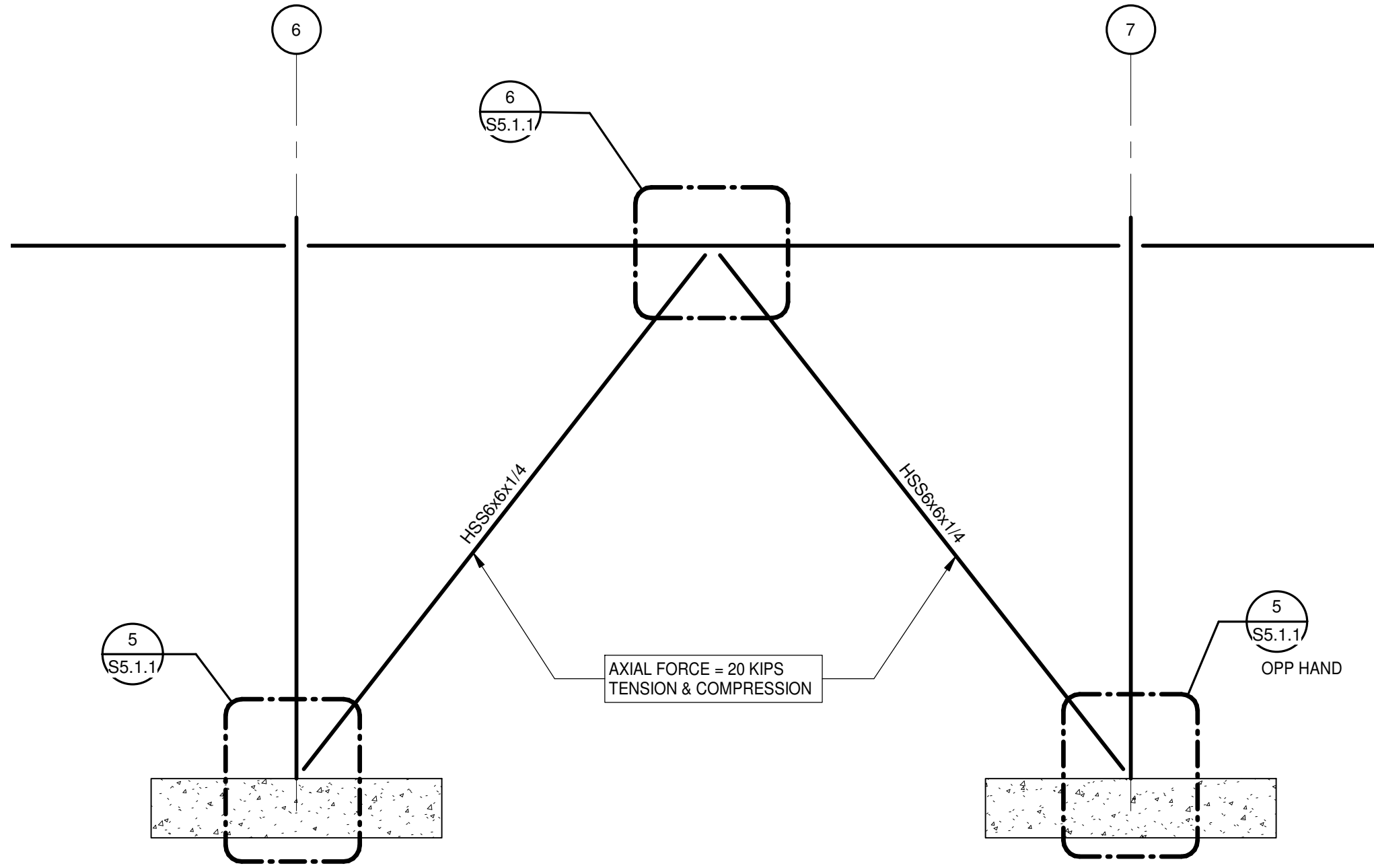
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	600646
DATE:	AUGUST 14, 2023
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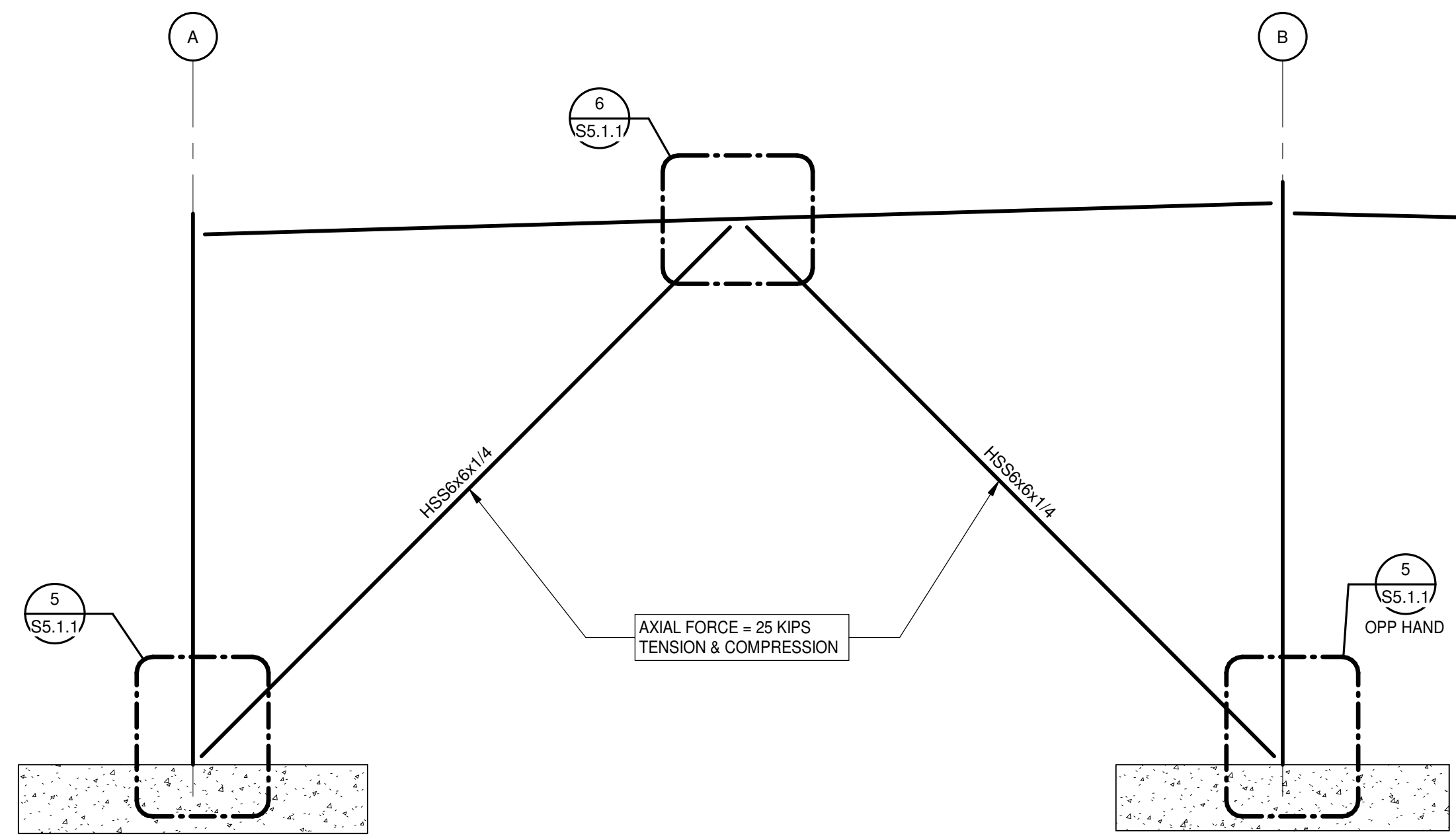
FRAMING SECTIONS



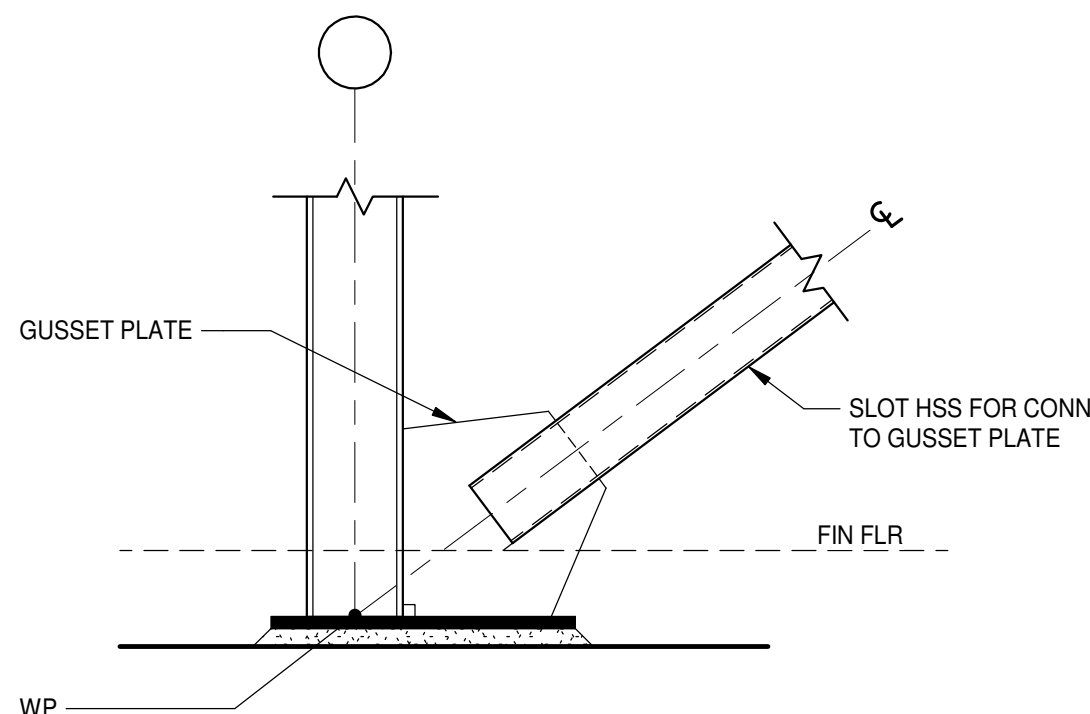
6 BRACED FRAME DETAIL
S5.1.1 S5.1.1 3/4" = 1'-0"



4 BRACED FRAME ELEVATION
S1.1.1 S5.1.1 1/4" = 1'-0"



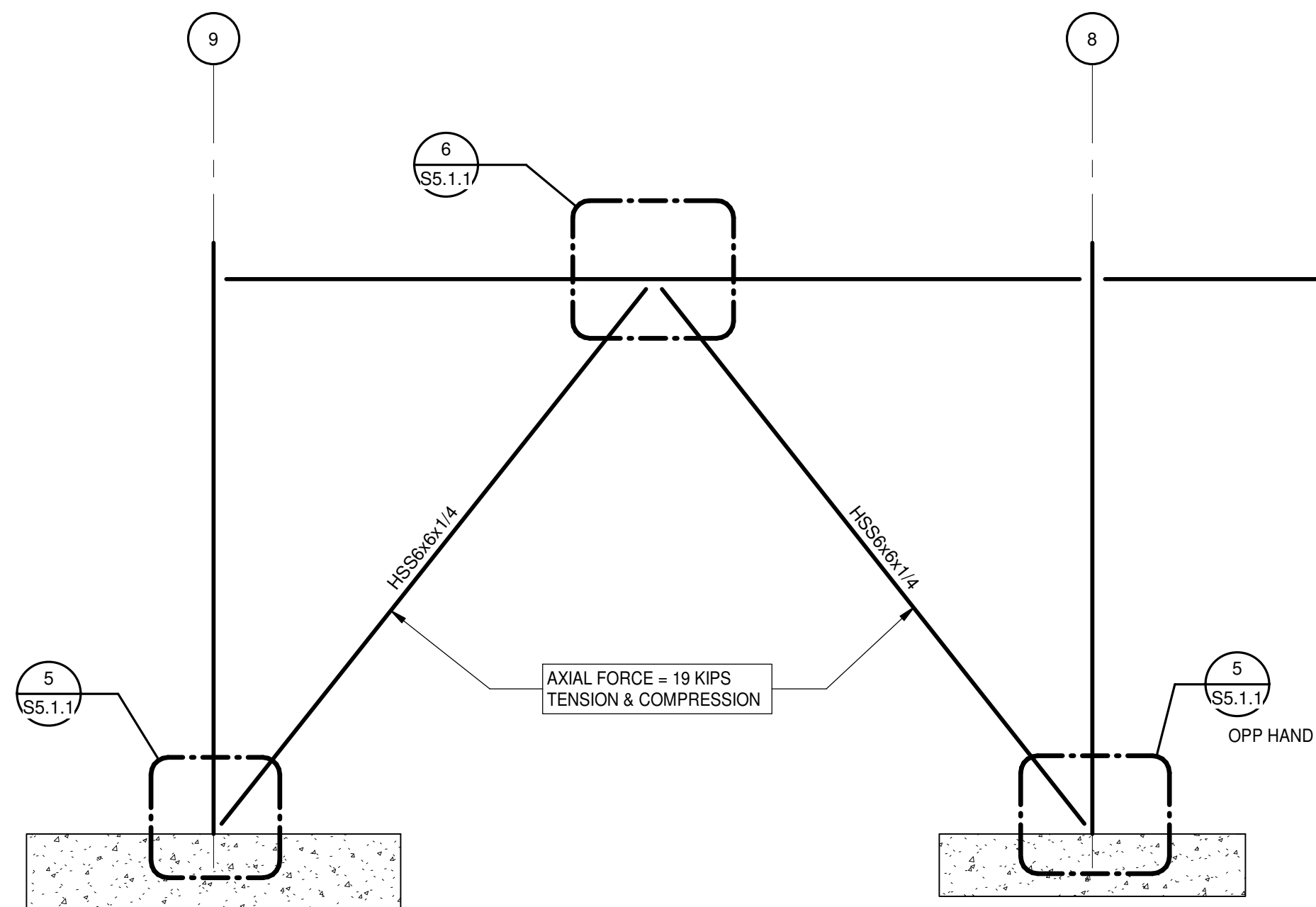
2 BRACED FRAME ELEVATION
S1.1.1 S5.1.1 1/4" = 1'-0"



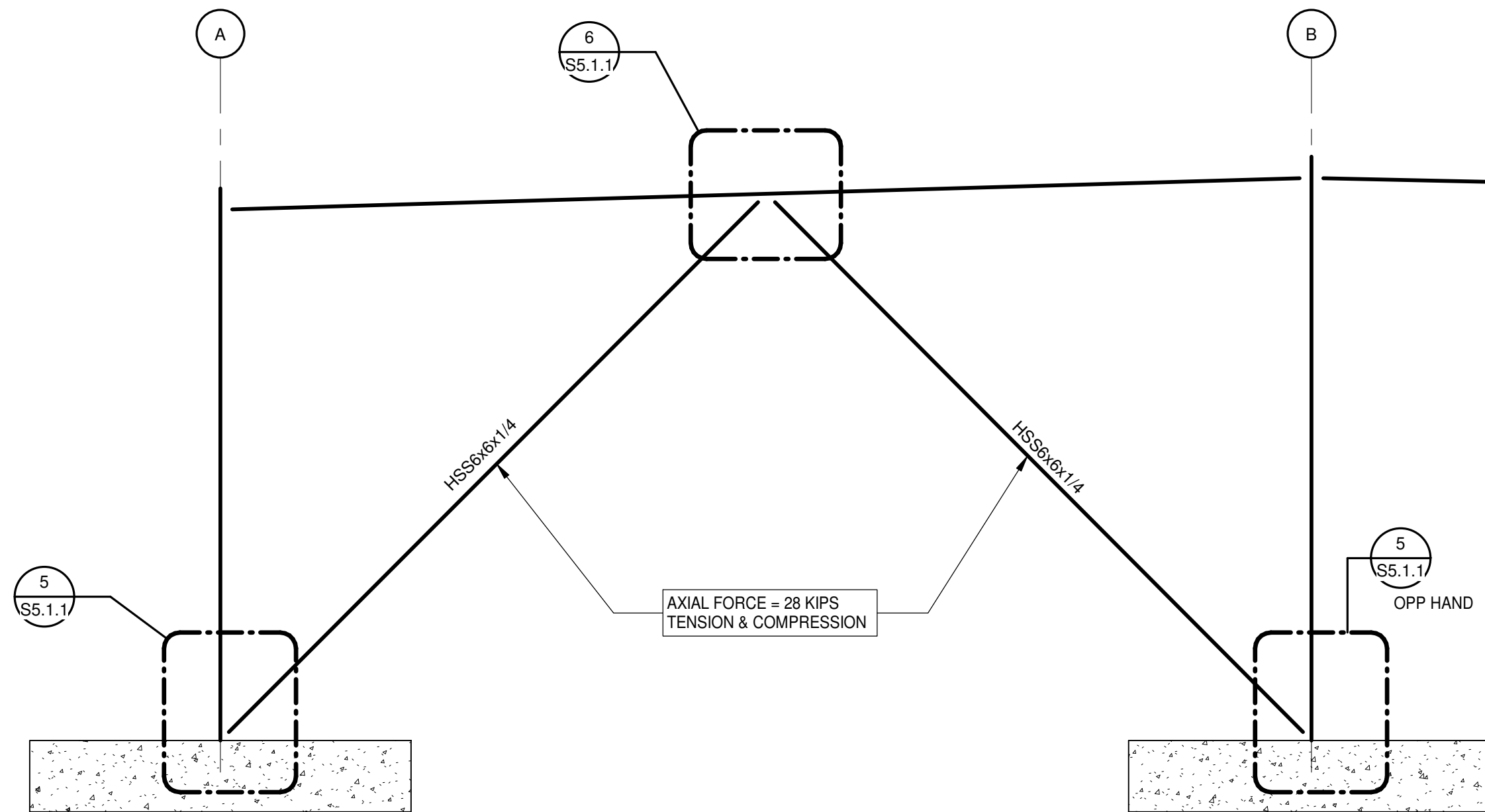
5 BRACED FRAME DETAIL
S5.1.1 S5.1.1 3/4" = 1'-0"

DELEGATED DESIGN CONNECTION NOTES

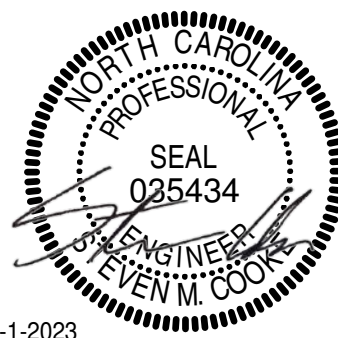
- DESIGN OF ALL BRACING CONNECTIONS SHALL BE PROVIDED BY THE FABRICATOR'S ENGINEER.
- THE UNIFORM FORCE METHOD SHALL BE USED TO DESIGN BRACING CONNECTIONS. DO NOT USE ANY SPECIAL CASES ASSOCIATED WITH THE UNIFORM FORCE METHOD. DO NOT USE KISS METHOD OR PARALLEL FORCE METHOD.
- DESIGN CALCULATIONS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA, SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
- FABRICATOR SHALL REVIEW SHOP DRAWINGS FOR COORDINATION WITH CONNECTION DESIGN CALCULATIONS PRIOR TO SUBMITTING TO THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD FOR REVIEW.
- BRACING LOADS INDICATED ON S5.1.1 FRAME ELEVATIONS ARE SERVICE LOADS TO BE USED WITH ASD DESIGN METHODOLOGY. BRACING LOADS SHALL BE CONSIDERED TO BE BOTH TENSION AND COMPRESSION.
- SHEAR LOADS AT THE ENDS OF BRACED FRAME BEAMS ON S5.1.1 FRAME ELEVATIONS ARE SERVICE LOAD MAXIMUMS TO BE USED IN DESIGN OF BRACING CONNECTIONS.
- SHORT HORIZONTAL SLOTTED HOLES MAY BE USED ONLY IN THE LEG OF THE ANGLES THAT CONNECT TO THE COLUMN. ALL OTHER HOLES IN BRACING CONNECTIONS SHALL BE STANDARD ROUND HOLES.
- ALL CONNECTIONS WITH TRANSFER/COLLECTOR FORCES INDICATED ON S5.1.1 FRAME ELEVATIONS OR ON FRAMING PLANS, SHALL HAVE FULLY PRETENSIONED BOLTS IN ALL CONNECTIONS TO THE COLUMNS, UNO. WHERE TRANSFER/COLLECTOR FORCES ARE TRANSFERRED BY BOLT SHEAR, CONNECTIONS SHALL BE SLIP CRITICAL. USE ASTM F1852 OR F2280 TENSION CONTROL BOLTS FOR THESE PRETENSIONED OR SLIP CRITICAL CONNECTIONS.
- HORIZONTAL LOADS INDICATED WITH THE LETTERS 'LFRS' ON FRAMING PLANS ARE TRANSFER FORCES INTO THE COLLECTOR BEAMS OF ADJACENT BAYS. THESE SERVICE LOADS ARE TO BE CONSIDERED TO OCCUR IN EITHER DIRECTION IN THE DESIGN OF BRACING CONNECTIONS. REFER TO FRAMING PLANS FOR OTHER TRANSFER FORCE LOCATIONS. CONNECTIONS FOR LFRS FORCES FOR COLLECTOR BEAMS SHALL BE SLIP CRITICAL WHEN THE LFRS FORCES ARE TRANSFERRED BY BOLT SHEAR.



3 SECTION
S1.1.1 S5.1.1 1/4" = 1'-0"




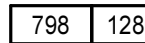

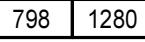

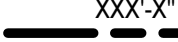



1 BRACED FRAME ELEVATION
S1.1.1 S5.1.1 1/4" = 1'-0"



PROJECT NO: 600646
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ABBREVIATIONS					
@	AT	EVC	ELECTRIC WATER COOLER	OSD	OPEN SITE DRAIN
AAV	AIR ADMITTANCE VALVE	EWV	ELECTRIC WATER HEATER	PC	PRECAST
ABV	ABOVE	EXV	EXISTING	PCF	POUNDS PER CUBIC FOOT
AC-X	AIR COMPRESSOR DESIGNATION	EXP	EXPANSION	PD	PUMP DISCHARGE
ADJ	ADJUSTABLE	FCO	FLOOR CLEANOUT	PLUMB	PLUMBING
ADNL	ADDITIONAL	FD	FLOOR DRAIN	PLYWD	PLYWOOD
APF	ABOVE FINISHED FLOOR	FDC	FIRE DEPARTMENT CONNECTION	POLY	POLYETHYLENE
AFS	ABOVE FINISHED GRADE	FDN	FOUNDATION DRAIN	PPT	PRESSURE PRESERVATIVE TREATED
AHU	AIR HANDLING UNIT	FF	FINISHED FLOOR	PREFAB	PREFABRICATE(D)
ALT	ALTERMATE	FFE	FINISHED FLOOR ELEVATION	PROJ	PROJECT
ALUM	ALUMINUM	FG	FINISHED GRADE	PSF	POUNDS PER SQUARE FOOT
AP	ACCESS PANEL	FH	FIRE HYDRANT	PSI	POUNDS PER SQUARE INCH
APPR	APPROXIMATE	FHC	FIRE HOSE CABINET	PV	PROPANE VENT
ARCH	ARCHITECTURAL	FHS	FIRE HOSE STATION	PVC	POLYVINYL CHLORIDE
AUTO	AUTOMATIC	FHVC	FIRE HOSE VALVE CABINET	PVMT	PAVEMENT
AVG	AVERAGE	FX	FIXTURE	R	RISER
BFF	BELOW FINISHED FLOOR	FLR	FLOOR	RAD	RADIUS
BFG	BELOW FINISHED GRADE	FLSHG	FLASHING	RCP-X	RECIRCULATION PUMP DESIGNATION
BLDG	BUILDING	FOR	FUEL OIL RETURN	RD	ROOF DRAIN (BOTTOM OUTLET)
BO	BOTTOM OF	FOS	FUEL OIL SUPPLY	RDS	ROOF DRAIN (SIDE OUTLET)
BOT	BOTTOM	FOV	FUEL OIL VENT	REF	REFERENCE
BST	BASSEMENT	FS	FLOOR SINK	REQD	REQUIRED
BTWN	BETWEEN	FT	FOOT OR FEET	REQMT	REQUIREMENTS
CA	COMPRESSED AIR	FVC	FIRE VALVE CABINET	RL	RAIN LEADER
CI	CAST IRON	G	GAS	RM	ROOM
CP	CAST-IN-PLACE CONCRETE	GGO	GAS CLEANOUT	RO	ROUGH OPENING
CL	CENTERLINE	GWH	GAS WATER HEATER	RV	RADON VENT
CLG	CEILING	HB	HOSE BIBB	S	SOUTH
CLR	CLEAR	HORIZ	HORIZONTAL	SAN	SANITARY
CMP	CORRUGATED METAL PIPE	HP	HORSEPOWER	SCH	SCHEDULE
CNTR	COUNTER	HR-X	HOSE REEL DESIGNATION	SD	STORM DRAINAGE PIPING
CO	CLEANOUT	HTG	HEATING	SDN	STORM DRAIN NOZZLE
COL	COLUMN	HW	HOT WATER	SF	SQUARE FOOT/FEET
CONC	CONCRETE	HWR	HOT WATER RETURN	SHT	SHEET
CONDS	CONDENSATE	HWS	HOT WATER SUPPLY	SIM	SIMILAR
CONSTR	CONSTRUCTION	ID	INSIDE DIAMETER	SLT	SEALANT
CONT	CONTINUATION	IN	INCH	SOG	SLAB ON GRADE
CONTR	CONTRACT-(OR)	INSUL	INSULATE OR INSULATION	SP	SUMP PUMP
CORR	CORRIDOR	INV	INVERT	SPEC	SPECIFICATION
CP	CIRCULATING PUMP	JAN	JANITOR	SPR	SPRINKLER
CR	CLASSROOM	KIT	KITCHEN	SQ	SQUARE
CT	COOLING TOWER	KW	KITCHEN WASTE	SRD	SECONDARY ROOF DRAIN
CU	COPPER	LAB	LABORATORY	SS	STAINLESS STEEL
CU FT	CUBIC FEET	LAV	LAVATORY	SSD	SECONDARY STORM DRAINAGE PIPING
CU YD	CUBIC YARD	LBS	POUNDS	STD	STANDARD
CW	COLD WATER	LF	LINEAR FOOT (FEET)	STL	STEEL
DB	DRY BULB	LP	PROPANE	STOR	STORAGE
DCW	DOMESTIC COLD WATER	LPV	PROPANE VENT	STRUCT	STRUCTURAL
DEMO	DEMOLISH OR DEMOLITION	MATL	MATERIAL	SUSP	SUSPENDED
DF	DRINKING FOUNTAIN	MAX	MAXIMUM	TD	TRENCH DRAIN
DHR(140)	DOMESTIC HOT WATER RETURN (140")	MECH	MECHANICAL	THK	THICKNESS
DHW	DOMESTIC HOT WATER	MED	MEDIUM	TMV	THERMOSTATIC MIXING VALVE
DHW(140)	DOMESTIC HOT WATER (140")	MFR	MANUFACTURER	TOSL	TOP OF SLAB
DI	DROP INLET	MH	MANHOLE	TW	DOMESTIC TEMPERED WATER (90" F)
DIA	DIAMETER	MN	MINIMUM	TYP	TYPICAL
DIP	DUCTILE IRON PIPE	MISC	MISCELLANEOUS	UG	UNDERGROUND
DN	DOWN	MTD	MOUNTED	UNO	UNLESS NOTED (INDICATED) OTHERWISE
DR-X	COMPRESSED AIR DRYER DESIGNATION	N	NORTH	V	VENT
DS	DOWNSPROUT	N/A	NOT APPLICABLE/AVAILABLE	V	VENT
DT	DRAIN TILE	NC	NORMALLY CLOSED	VAC	VACUUM
DTL	DETAIL	NG	NATURAL GAS	VB	VACUUM BREAKER
DTW	DOMESTIC TEMPERED WATER	NGV	NATURAL GAS VENT	VERT	VERTICAL
DWG	DRAWING	NIC	NOT IN CONTRACT	VTR	VENT THROUGH ROOF
DWP	DOMESTIC WATER BOOSTER PUMP	NO	NORMALLY OPEN	W	WEST
E	EAST	NO, (#)	NUMBER	W	WITH
ED	EMERGENCY SECONDARY ROOF DRAIN	NOM	NOMINAL	WO	WITHOUT
ELEC	ELECTRICAL	OC	ON CENTER	WB	WATER HAMMER ARRESTER
ELEV	ELEVATION	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
EFSD	ELECTRICAL PANELBOARD	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED	WCO	WALL CLEANOUT
EQ	EQUAL	OFF	OFFICE	WSP	WATER SOURCE HEAT PUMP
EQUIP	EQUIPMENT	OH	OVERHEAD	WWF	WELDED WIRE FABRIC
ETR	EXISTING TO REMAIN	OPNG	OPENING	WWM	WELDED WIRE MESH
		OPP	OPPOSITE	XFMR	TRANSFORMER

GRAPHICS SYMBOLS LEGEND			
	PIPE WITH SIZE AND SERVICE		POINT OF CONNECTION TO EXISTING
	FLOW IN DIRECTION OF ARROW		LIMIT OF DEMOLITION
	PITCH DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE		KEYNOTE
	PIPE CAP		STRUCTURAL GRID LINE WITH DESIGNATION
	PIPE TURNED DOWN		SPACE IDENTIFICATION TAG SPACE NUMBER BUILDING AREA (WHEN USED)
	PIPE TURNED UP		EQUIPMENT IDENTIFICATION TAG EQUIPMENT NUMBER UNIT DESIGNATION
	PIPE TEE UP		SECTION WHERE CUT SECTION LETTER DRAWING WHERE SECTION IS INDICATED
	PIPE TEE DOWN		ENLARGED PLAN WHERE CUT ENLARGED PLAN NUMBER DRAWING WHERE ENLARGED PLAN IS INDICATED
	UNION		DETAIL TAG DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED
	CONCENTRIC PIPE REDUCTION		SANITARY RISER TAG SANITARY RISER IDENTIFIER DRAWING WHERE SANITARY RISER IS TAGGED
	END OF LINE CLEANOUT PLUG		DOMESTIC RISER TAG DOMESTIC RISER IDENTIFIER DRAWING WHERE SANITARY RISER IS TAGGED
	FLOOR CLEANOUT		DETAIL TITLE DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED DRAWING WHERE DETAIL IS CUT ADDITIONAL DRAWING REFERENCES
	WALL CLEANOUT		SANITARY RISER DIAGRAM SANITARY RISER DIAGRAM IDENTIFIER DRAWING WHERE SANITARY RISER IS INDICATED DRAWING WHERE SANITARY RISER IS TAGGED ADDITIONAL DRAWING REFERENCES
	YARD CLEANOUT (CLEANOUT TO GRADE)		DOMESTIC RISER DIAGRAM DOMESTIC RISER DIAGRAM IDENTIFIER DRAWING WHERE DOMESTIC RISER IS INDICATED DRAWING WHERE DOMESTIC RISER IS TAGGED ADDITIONAL DRAWING REFERENCES
	FLOOR DRAIN WITH TAG		FUEL GAS RISER DIAGRAM FUEL GAS RISER DIAGRAM IDENTIFIER DRAWING WHERE FUEL GAS RISER IS INDICATED DRAWING WHERE FUEL GAS RISER IS TAGGED ADDITIONAL DRAWING REFERENCES
	FLOOR SINK WITH TAG		
	PRESSURE GAUGE WITH GAUGE COCK		
	LIQUID FILLED THERMOMETER		
	WATER HAMMER ARRESTOR (PLUMBING & DRAINAGE INSTITUTE SIZE INDICATED)		
	FLOW SWITCH		
	TEMPERATURE/PRESSURE PLUG		
	VALVE		
	VALVE IN RISER		
	GAS COCK		
	VENTURI FLOW METER		
	MANUAL BALANCING VALVE		
	AUTOMATIC BALANCING VALVE WITH FLOW TAPS		
	SWING CHECK VALVE		
	PRESSURE REDUCING VALVE		
	SOLENOID OPERATED VALVE		
	TEMPERATURE AND PRESSURE RELIEF VALVE		
	BACKWATER VALVE		
	HOSE BIBB OR WALL HYDRANT		
	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER		
	DOUBLE CHECK BACKFLOW PREVENTER		
	PUMP		

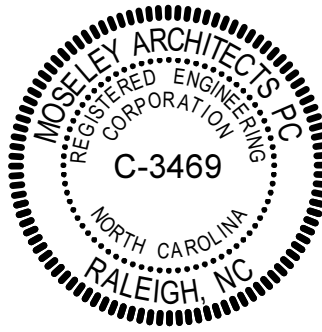
LIFE SAFETY SYMBOL LEGEND				
APPLIES TO LS SERIES OF DRAWINGS ONLY				
DESIGNATOR MATRIX				SYMBOLS
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
4 HR FIRE	▲▲▲▲	■ ■ ■ ■		
3 HR FIRE	▶▶▶▶	◆ ◆ ◆ ◆		● ● ● ●
2 HR FIRE	*****			
1 HR FIRE		▶▶▶▶	★★★★	-----
½ HR FIRE			◆◆◆◆	
SMOKE	▲▲▲▲	◆◆◆◆		
SMOKE-TIGHT			■ ■ ■ ■	
INCIDENTAL			◆ ◆ ◆ ◆	
NOTES:				
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.				
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.				
3. RATING OF BEARING OR NON-BEARING WALLS ARE PER TABLE 601 AND SECTION 602.1 AND DO NOT REQUIRE PROTECTED OPENINGS.				
				 ROOM NUMBER
				 DIRECTION OF EGRESS
				 EGRESS LOAD CAPACITY NUMBER OF OCCUPANTS
				 DIRECTION OF EGRESS NUMBER OF OCCUPANTS EGRESS LOAD CAPACITY
				 MAXIMUM TRAVEL DISTANCE
				 COMMON PATH OF TRAVEL
				 FIRE EXTINGUISHER CABINET
				 FIRE EXTINGUISHER BRACKET
				 PANIC HARDWARE

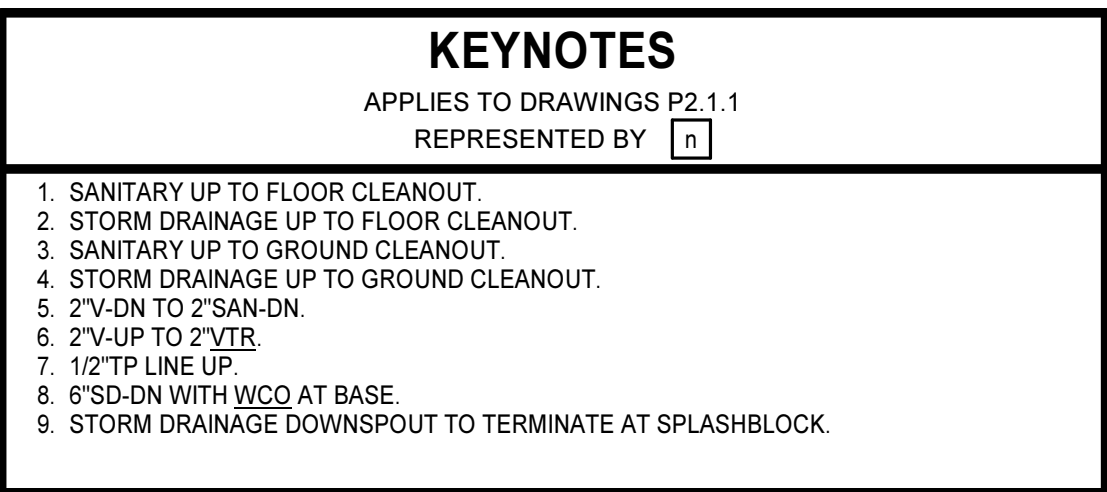
GENERAL NOTES	
A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.	
B. COORDINATE PIPING LOCATIONS AND INSTALLATION WITH EACH TRADE TO AVOID CONFLICTS WITH OTHER TRADES.	
C. PROVIDE FLOOR CLEANOUTS INDICATED FLUSH WITH FLOOR FINISHES.	
D. PROVIDE CLEANOUTS WHERE INDICATED AND ADDITIONAL CLEANOUTS AS REQUIRED BY LOCAL CODE.	
E. REFER TO DRAWINGS FROM EACH DISCIPLINE BEFORE ROUGHING-IN PLUMBING FIXTURES.	
F. OBTAIN DIMENSIONS AND ROUTING IN FIELD BEFORE INSTALLATION OF PLUMBING AND FIXTURES.	
G. INSTALL ALL DRAINAGE PATTERN FITTINGS AND PIPING IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES.	
H. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.	
I. PROVIDE ISOLATION VALVES IN ACCORDANCE WITH DIAGRAMS, DETAILS, AND DIVISION 22 SPECIFICATIONS.	

GENERAL DATA	
PLUMBING GENERAL DATA	
Item	Value
SERVICE SIZING	
INSTANTANEOUS DEMAND (GPM)	73 (CLASSROOM) 42 (FIRING RANGE)
SUPPLY FIXTURE UNITS (SFU)	123 (CLASSROOM) 30 (FIRING RANGE)
DRAINAGE FIXTURE UNITS (DFU)	53 (CLASSROOM) 13 (FIRING RANGE)
STORM DRAINAGE	
AREA OF ROOF (SQUARE FEET)	
AREA OF WALL ABOVE/ADJACENT TO ROOF (SQUARE FEET)	
TOTAL ROOF DRAINAGE (SQUARE FEET)	16,280 (CLASSROOM) 13,165 (FIRING RANGE)
WATER HEATERS	
NUMBER	1 (CLASSROOM) 1 (FIRING RANGE)
HOT WATER REQUIRED	22 GPM (CLASSROOM) 13 GPM (FIRING RANGE)
FUEL USED	NA

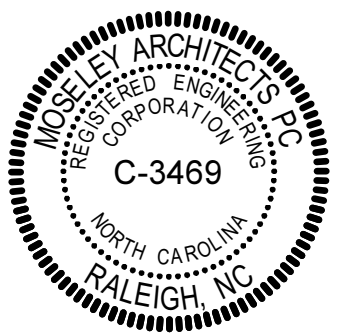
PROJECT NO:	800646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

LEGENDS,
ABBREVIATIONS AND
GENERAL NOTES





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MOSELEYARCHITECTS.COM



PUBLIC SAFETY TRAINING CENTER

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ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

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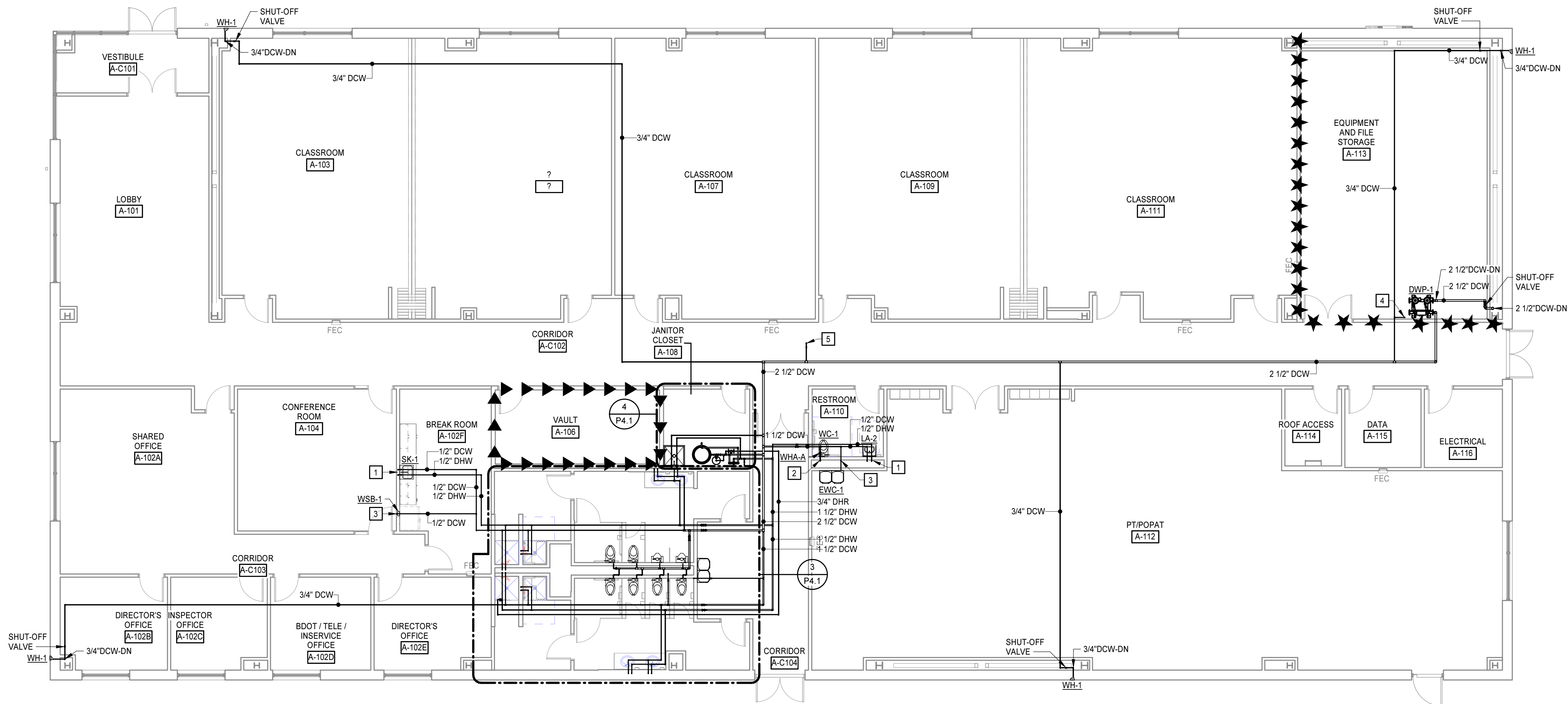
**CLASSROOM-ADMIN
FLOOR PLANS -
PLUMBING**

P2.1.1





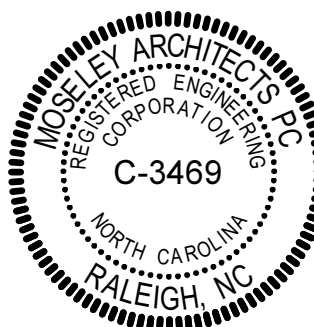
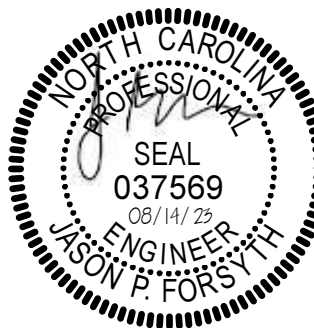
CLASSROOM-ADMIN PLAN - DOMESTIC



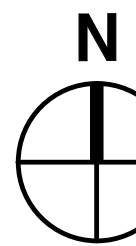
KEYNOTES

APPLIES TO DRAWINGS P2.1.2
REPRESENTED BY [n]

1. 1/2"DCW AND 1/2"DHW-DN.
2. 1"DCW-DN.
3. 1/2"DCW-DN.
4. 1/2"TP LINE DN TO TPV-1.
5. 3/4"DCW-UP TO RHL-1.

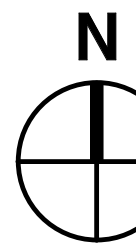
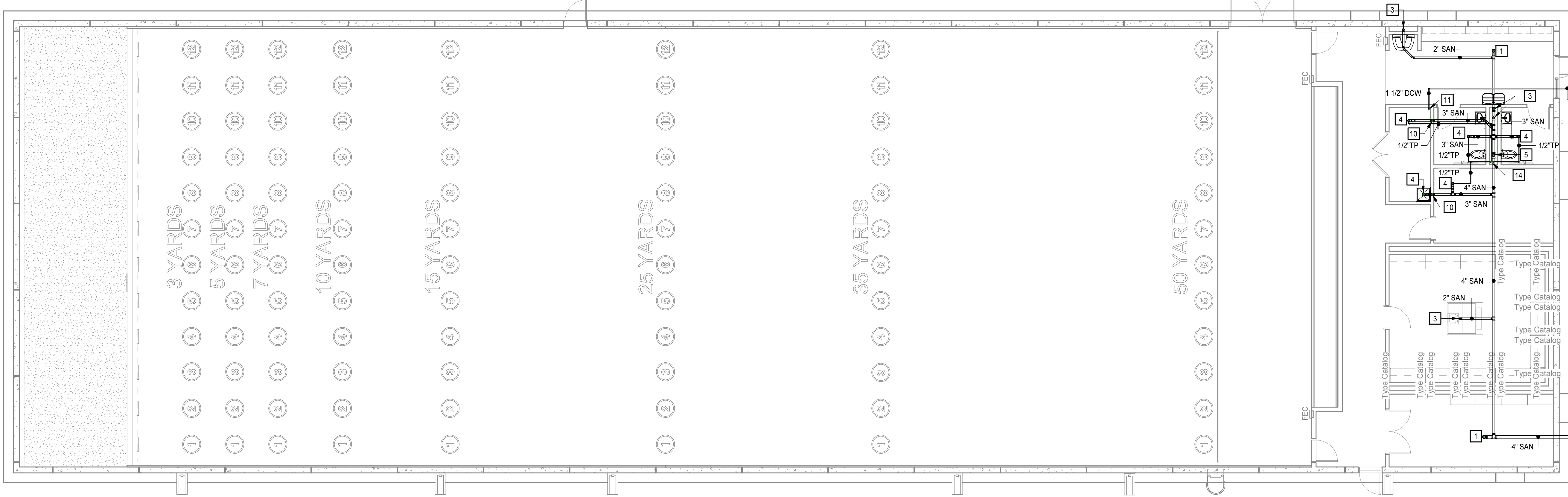


PROJECT NO. 800646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION



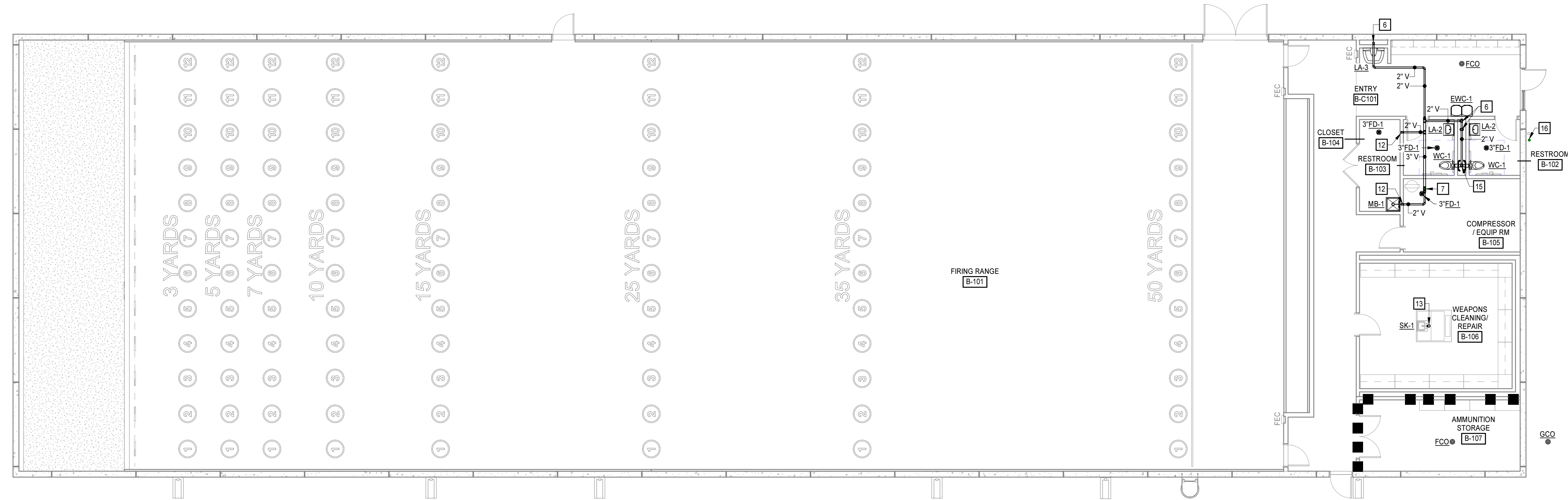
FIRING RANGE FOUNDATION PLAN - PLUMBING

1/8" = 1'-0"



FIRING RANGE PLAN - SANITARY

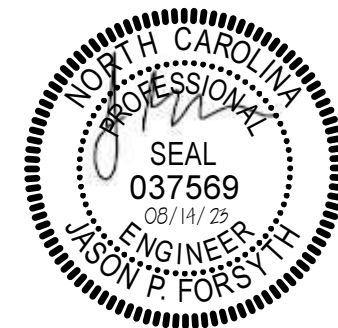
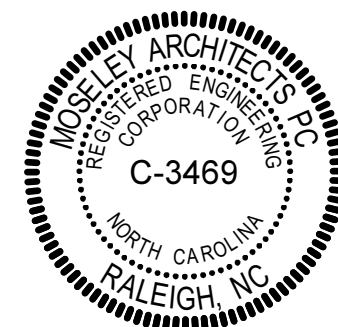
1/8" = 1'-0"

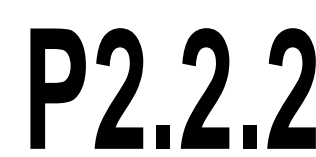


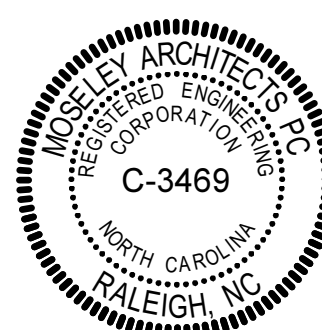
KEYNOTES

APPLIES TO DRAWINGS P2.2.1
REPRESENTED BY [1]

1. SANITARY UP TO FLOOR CLEANOUT.
2. SANITARY UP TO GROUND CLEANOUT.
3. 2" SAN-UP.
4. 3" SAN PTRAP-UP.
5. 4" SAN-UP.
6. 2" V-DN TO 2" SAN-DN.
7. 2" V-DN TO 2" SAN-DN & 3" V-UP TO 3" VTR.
8. INVERT ELEVATION AT -2' 9" BFF. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
9. INVERT ELEVATION AT -2' 9" BFF. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
10. 2" V-UP.
11. 1 1/2" DCW-UP.
12. 2" V-DN.
13. 2" AIR ADMITTANCE VALVE-DN TO 2" SAN-DN.
14. (3) 1/2" TRAP PRIMER LINES UP.
15. 2" V-DN TO 4" SAN-DN.
16. STORM DRAINAGE DOWNSPOUT TO TERMINATE AT SPLASHBLOCK.



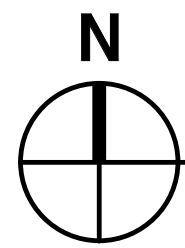




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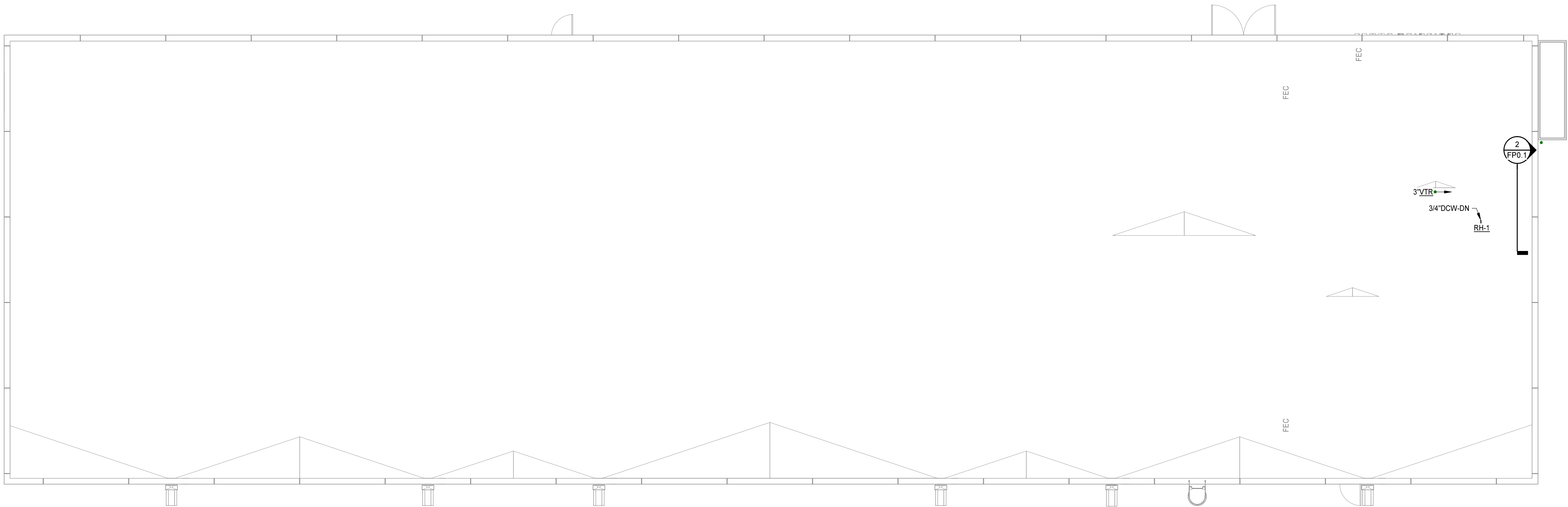
A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10



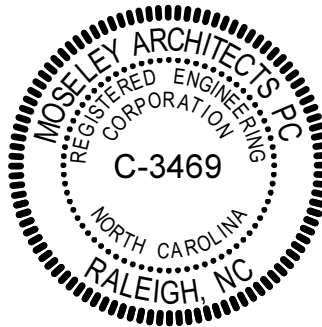
FIRING RANGE ROOF PLAN - PLUMBING

1/8" = 1'-0"



MOSELEYARCHITECTS

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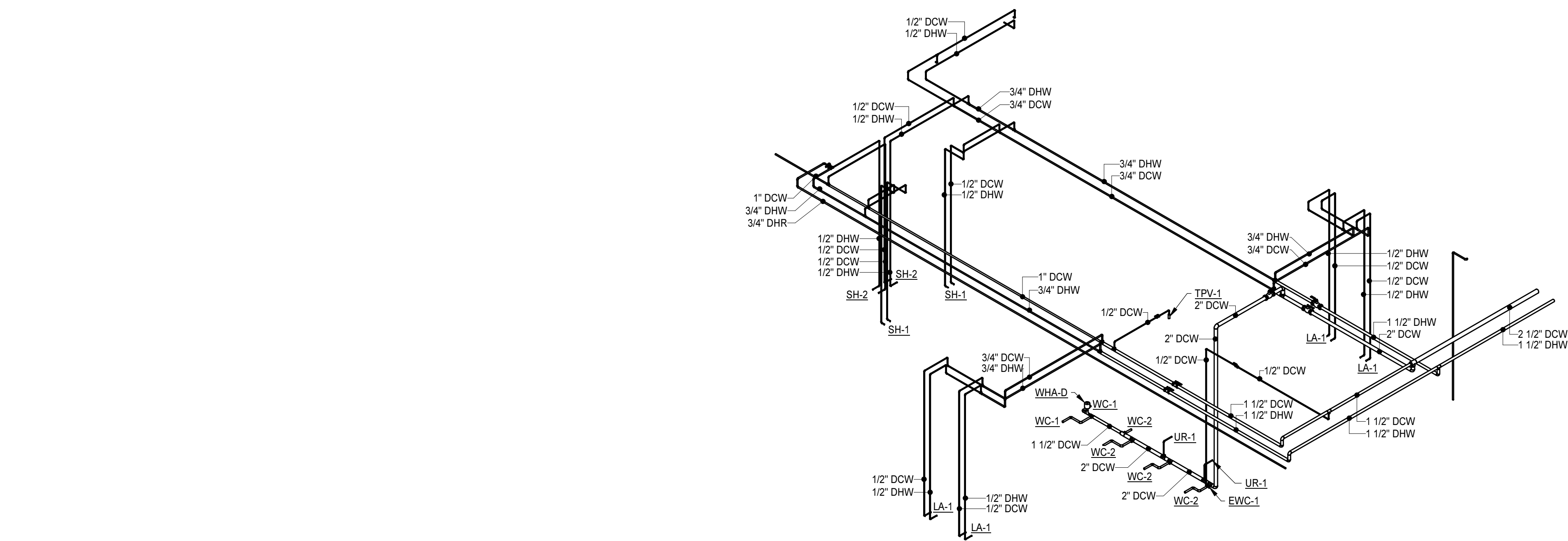
SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	600646
DATE:	AUGUST 14, 2023

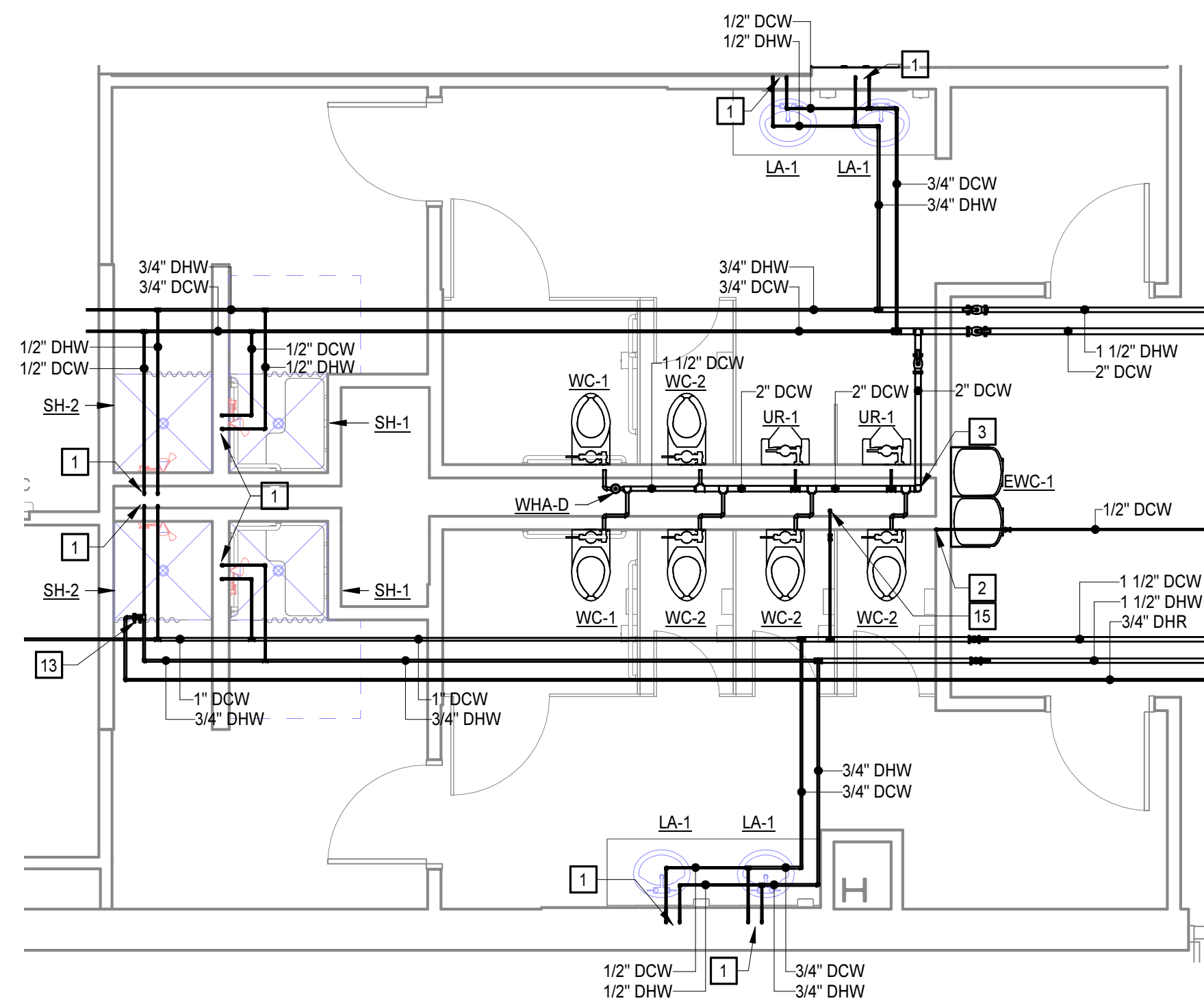
REVISIONS	
DATE	DESCRIPTION

ALTERNATE NO. 1 -
FIRING RANGE ROOF
PLAN - PLUMBING

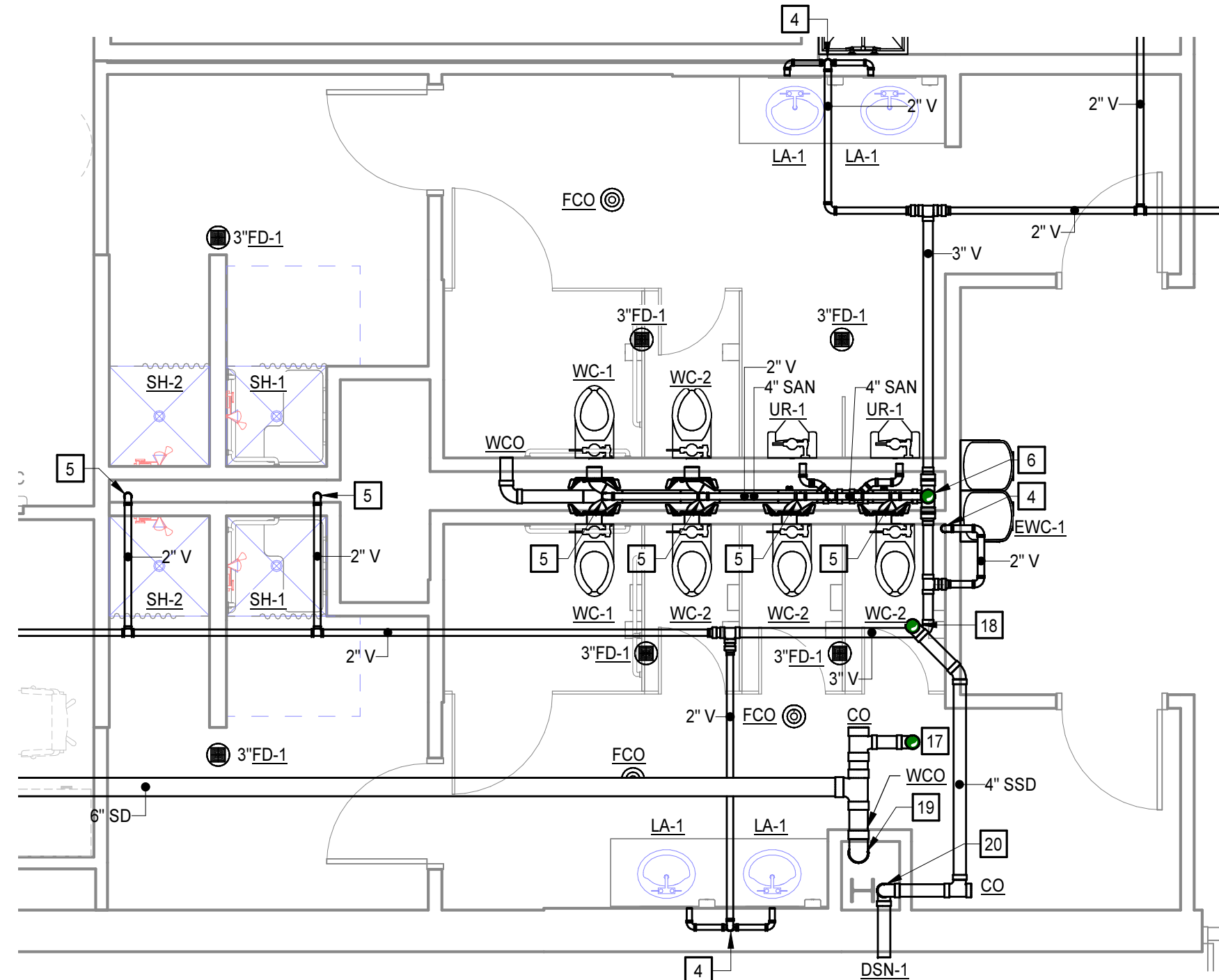
P3.2



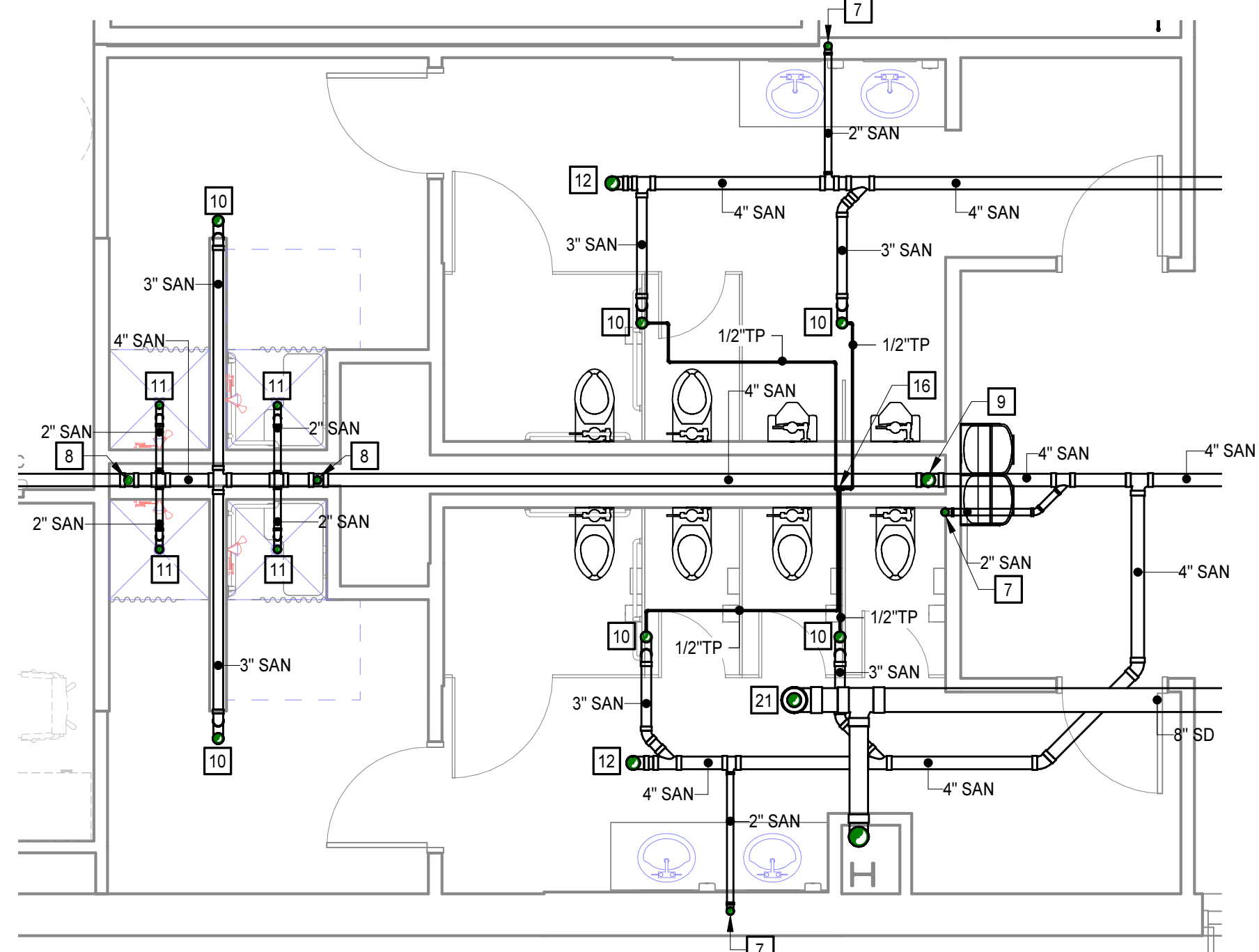
DOMESTIC RISER DIAGRAM - BATHROOM GROUP



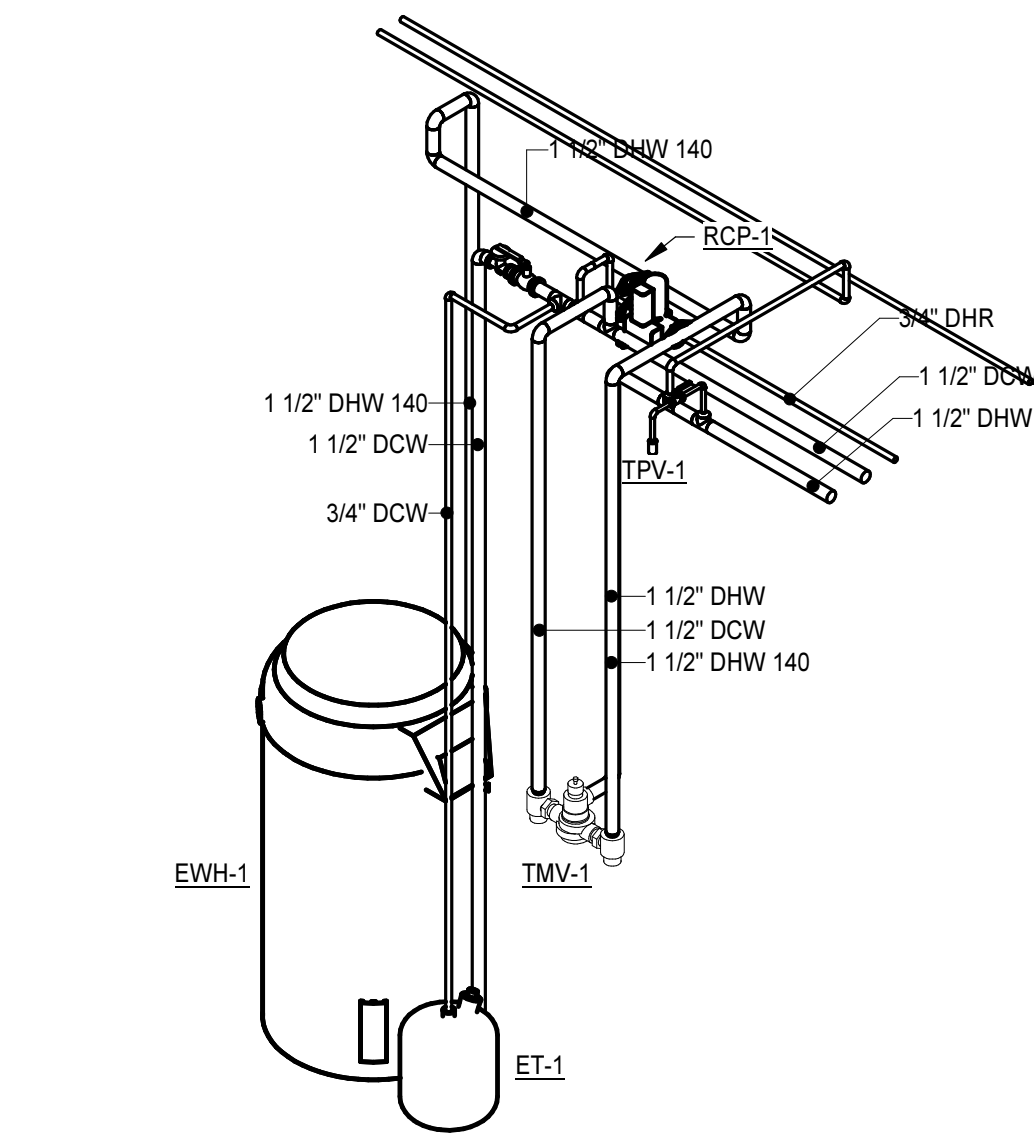
3 ENLARGED BATHROOM GROUP PLAN - DOMESTIC



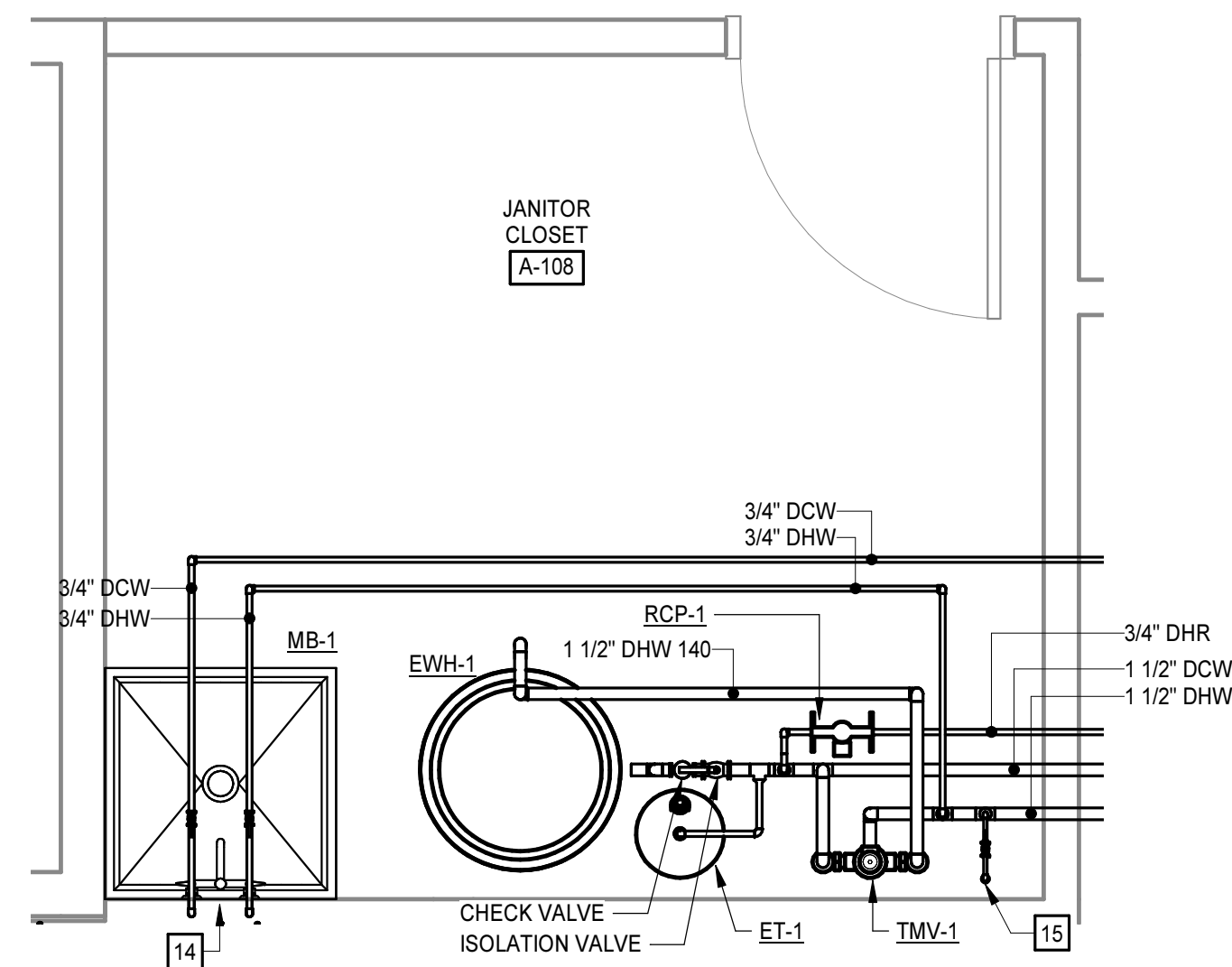
2 ENLARGED BATHROOM GROUP PLAN - SANITARY



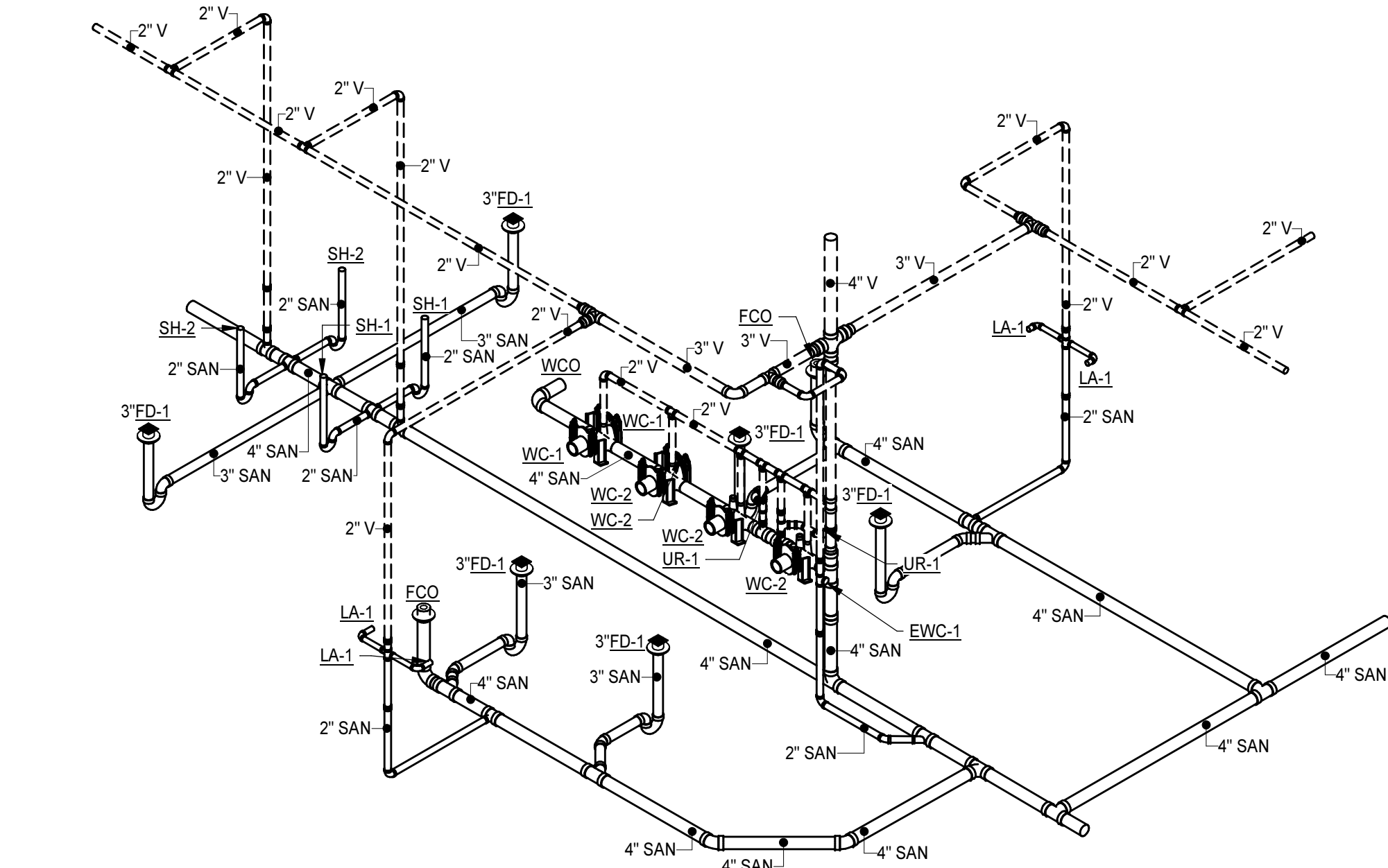
1 ENLARGED BATHROOM GROUP PLAN - FOUNDATION



DOMESTIC RISER DIAGRAM - JANITORS CLOSET

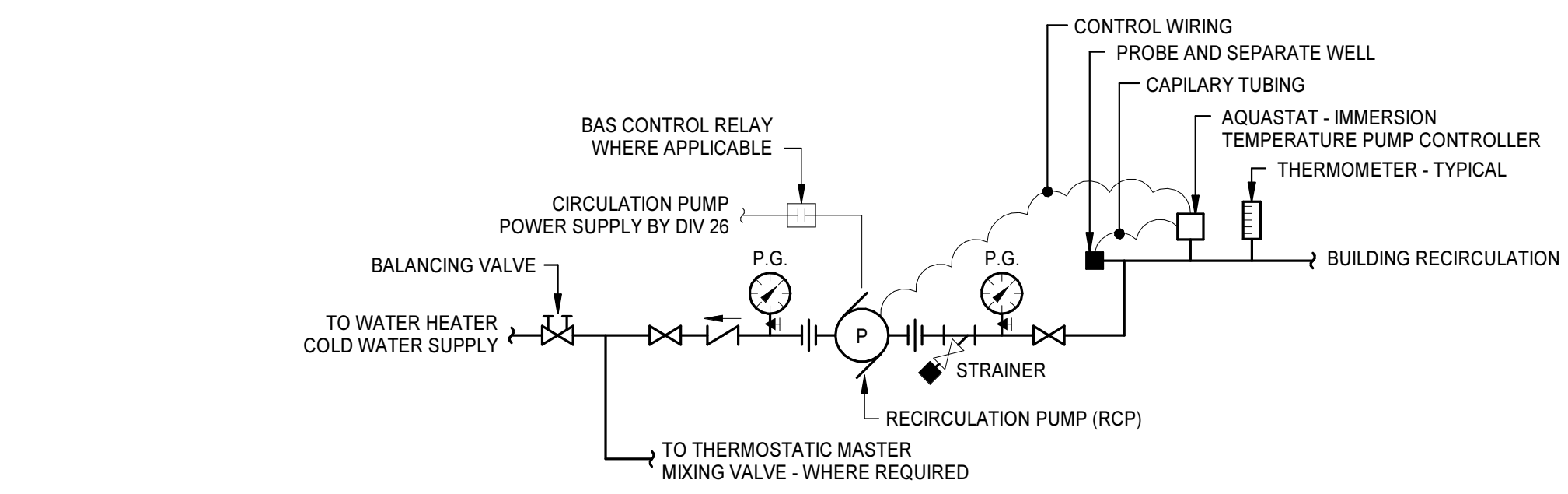


4 ENLARGED JANITORS CLOSET - DOMESTIC

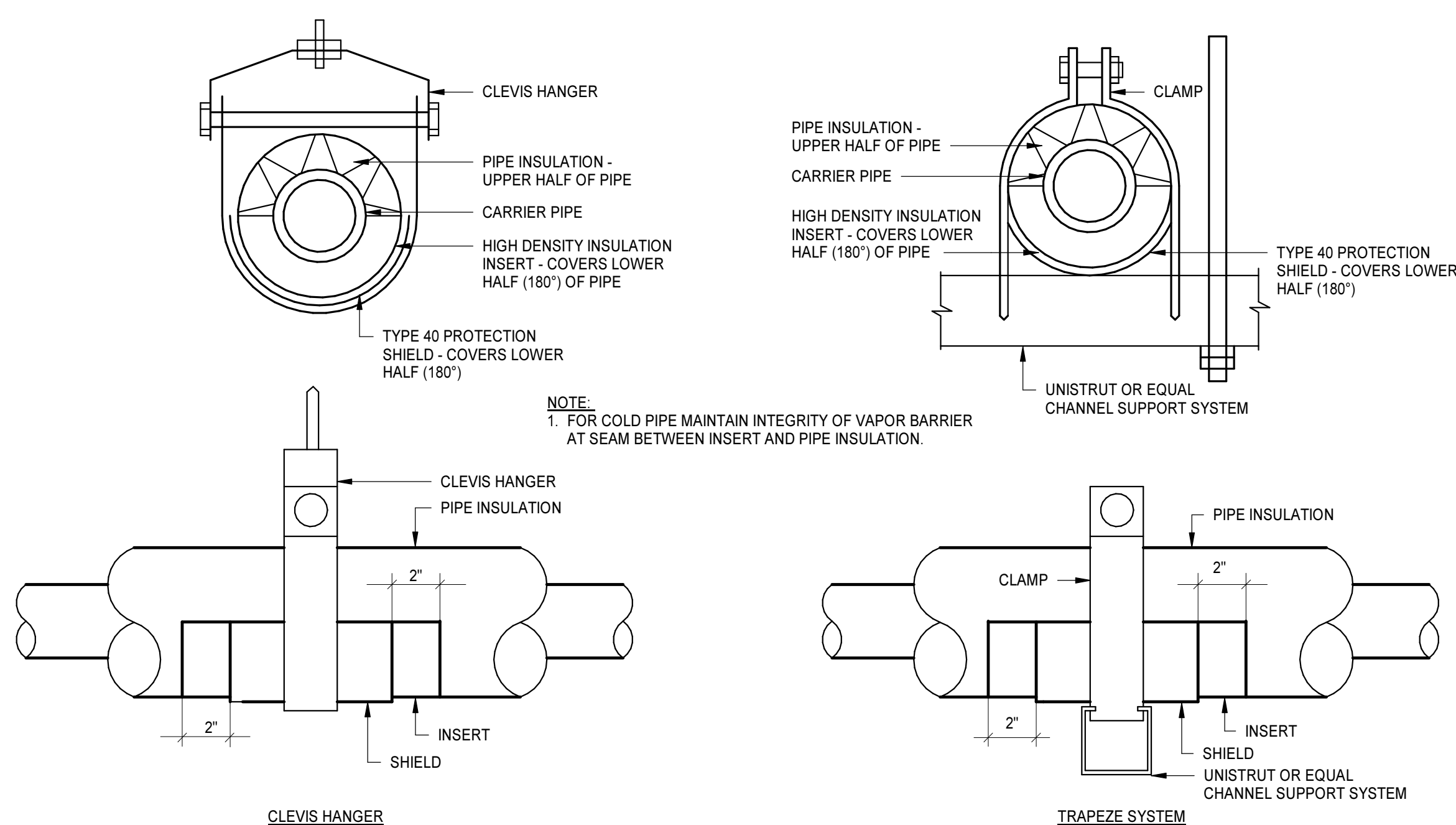


SANITARY RISER DIAGRAM - BATHROOM GROUP

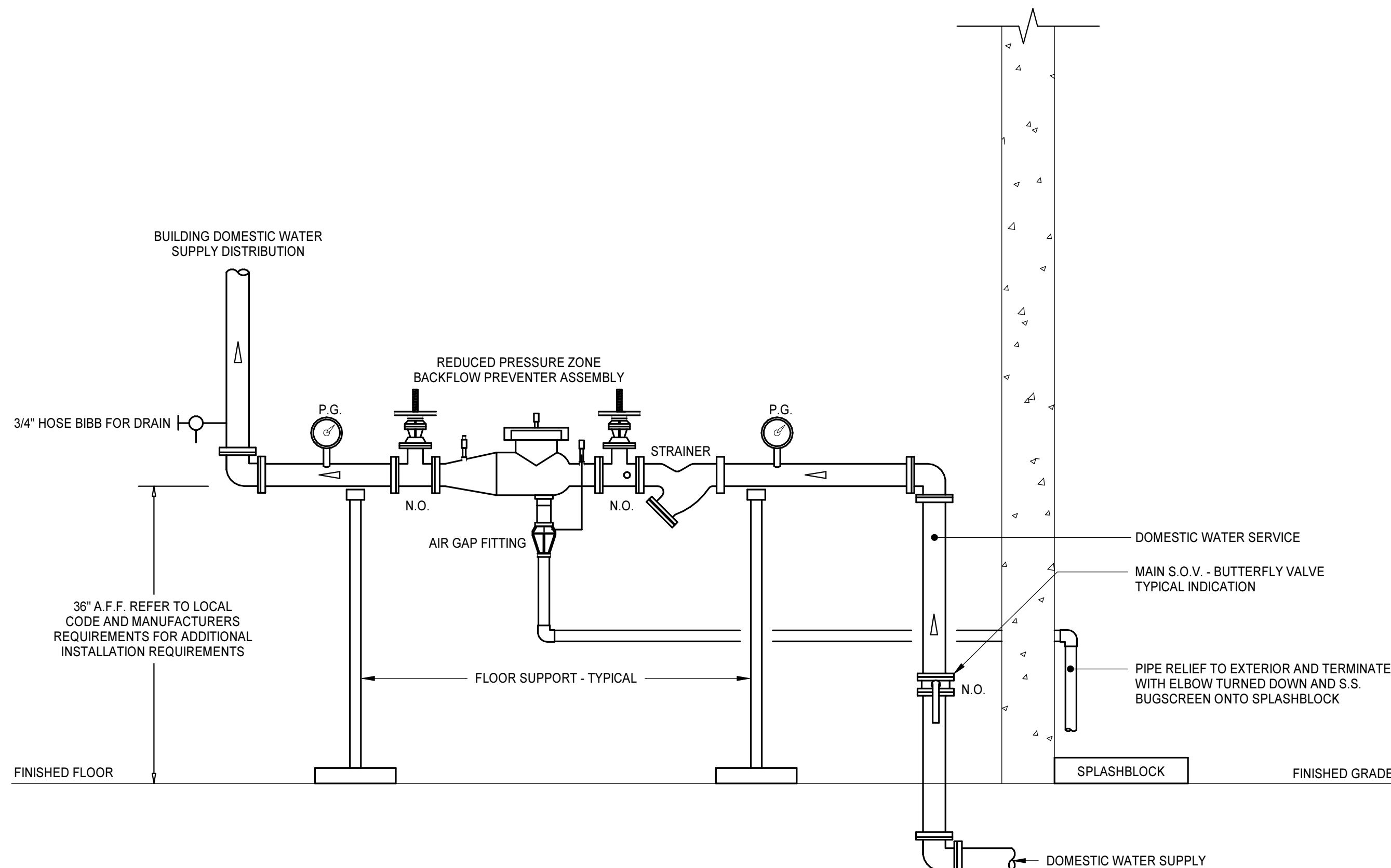
KEYNOTES	
APPLIES TO DRAWINGS P4.1	
REPRESENTED BY	<div></div>
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2. 1/2\"/>	
3. 2\"/>	
4. 2\"/>	
5. 2\"/>	
6. 3\"/>	
7. 2\"/>	
8. 2\"/>	
9. 4\"/>	
10. 3\"/>	
11. 2\"/>	
12. SANITARY UP TO FLOOR CLEANOUT	
13. CALIBRATED BALANCING VALVE SET AT 1.00 GPM	
14. 3/4\"/>	
15. 1/2\"/>	
16. (4) 1/2\"/>	
17. 4\"/>	
18. 4\"/>	
19. 4\"/>	
20. 4\"/>	
21. STORM DRAINAGE UP TO FLOOR CLEANOUT	



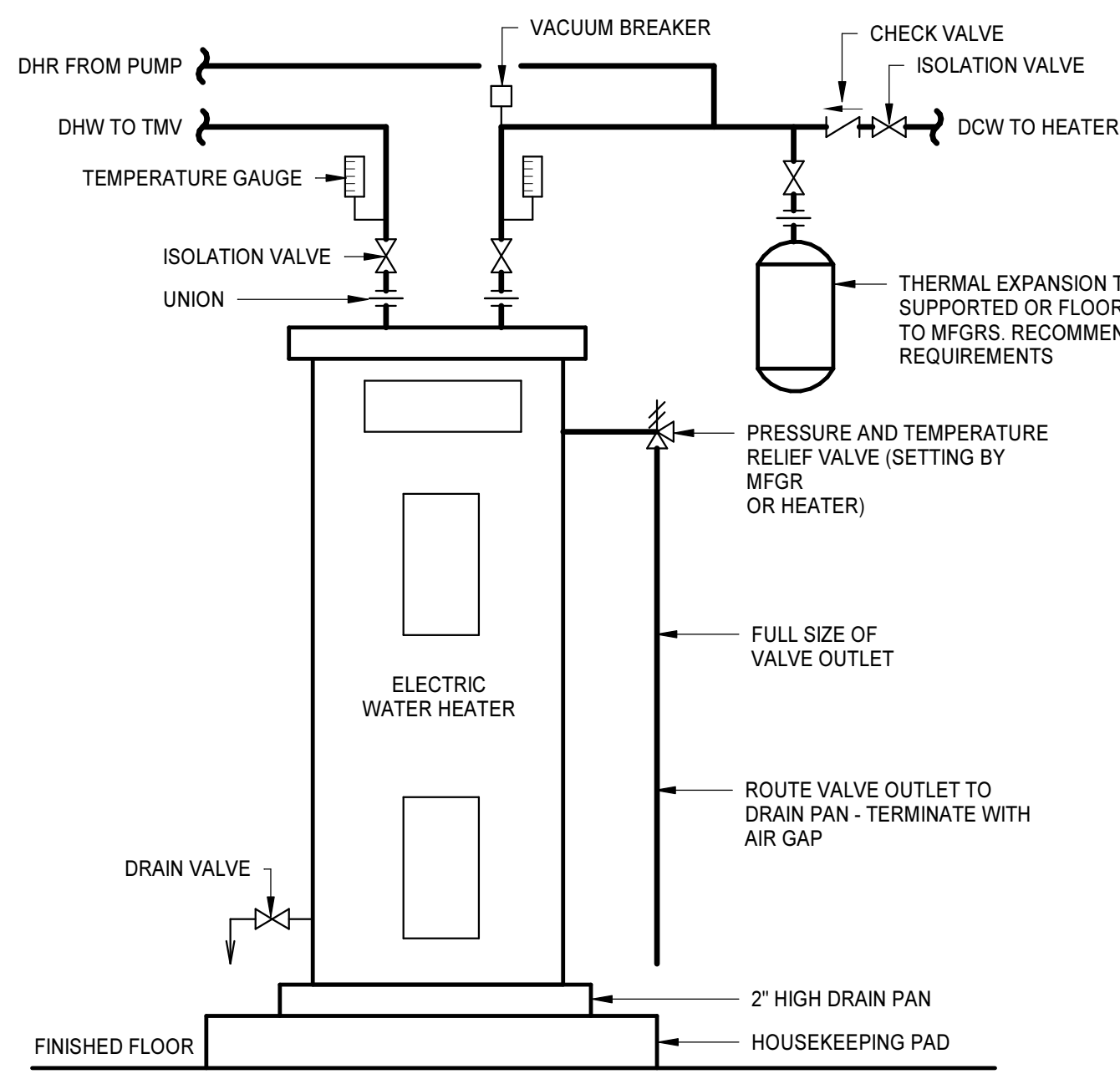
CIRCULATION PUMP DETAIL
NO SCALE



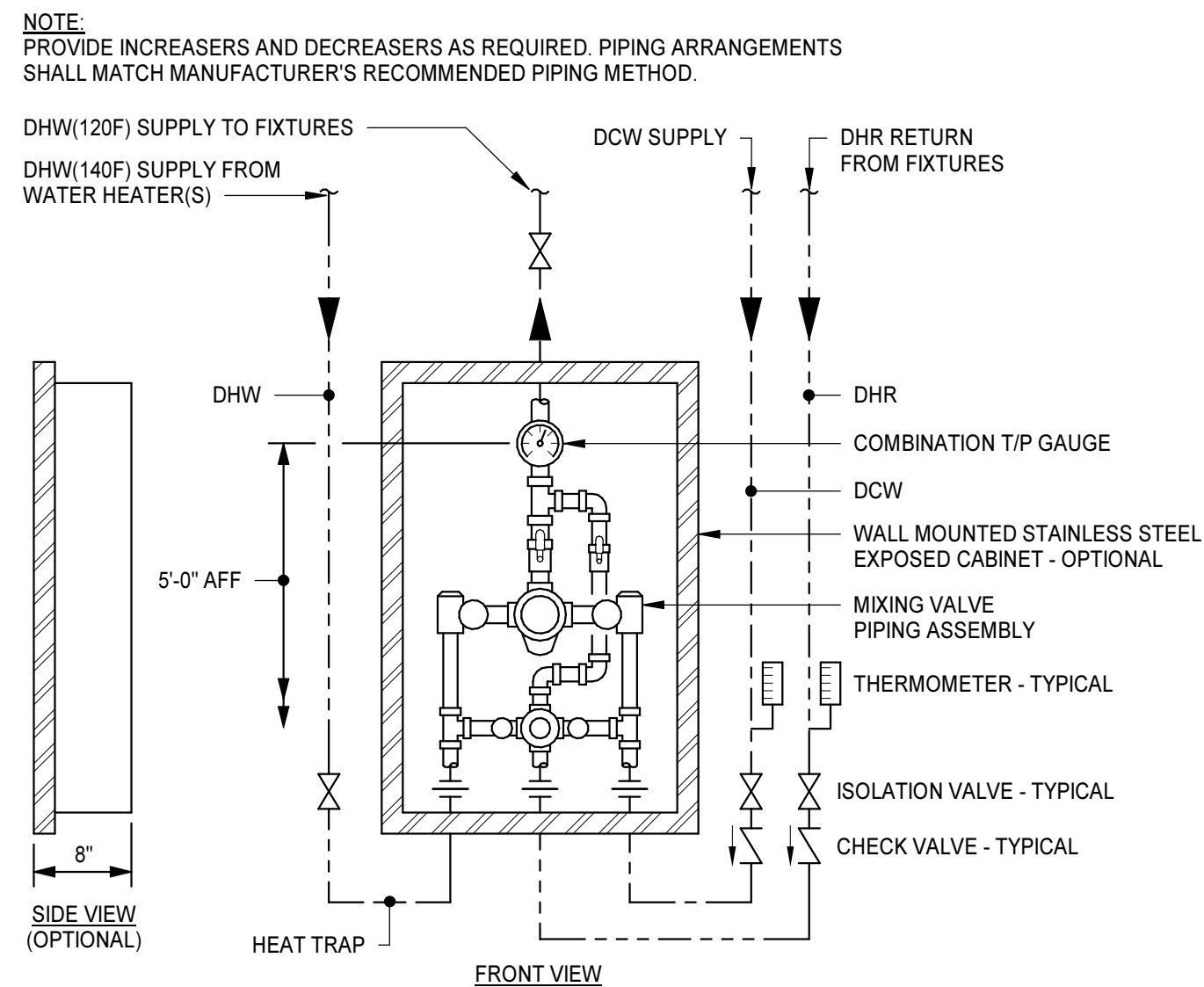
PIPE SUPPORT AND THERMAL SHIELD DETAILS
NO SCALE



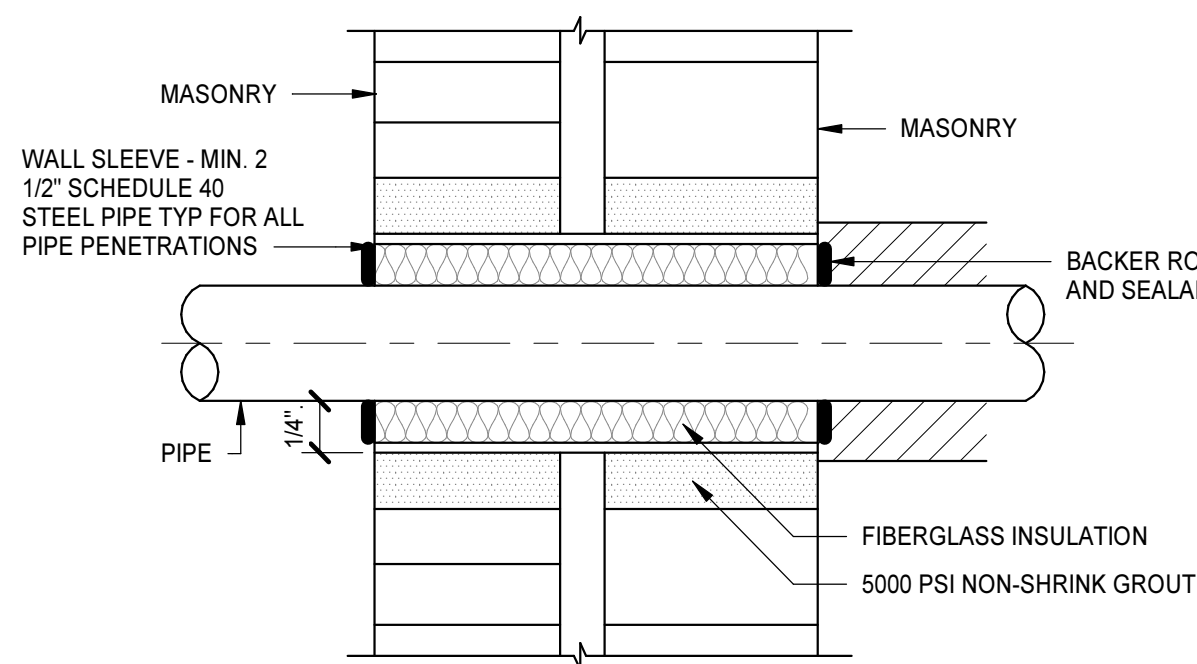
WATER SERVICE ENTRANCE DETAIL
NO SCALE



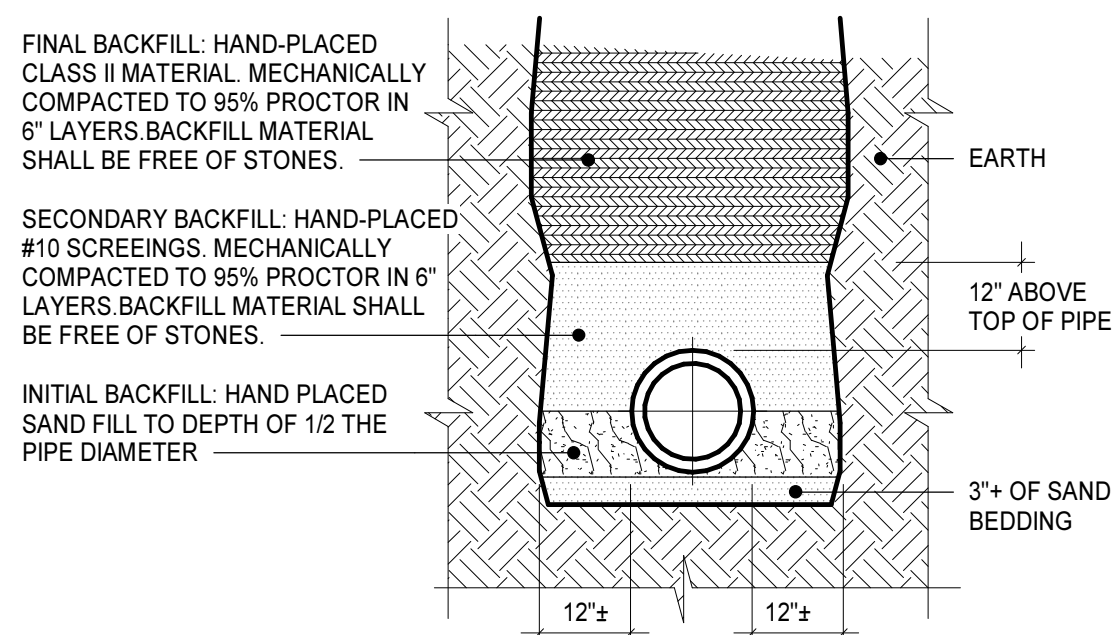
FLOOR MOUNTED ELECTRIC WATER HEATER DETAIL
NO SCALE



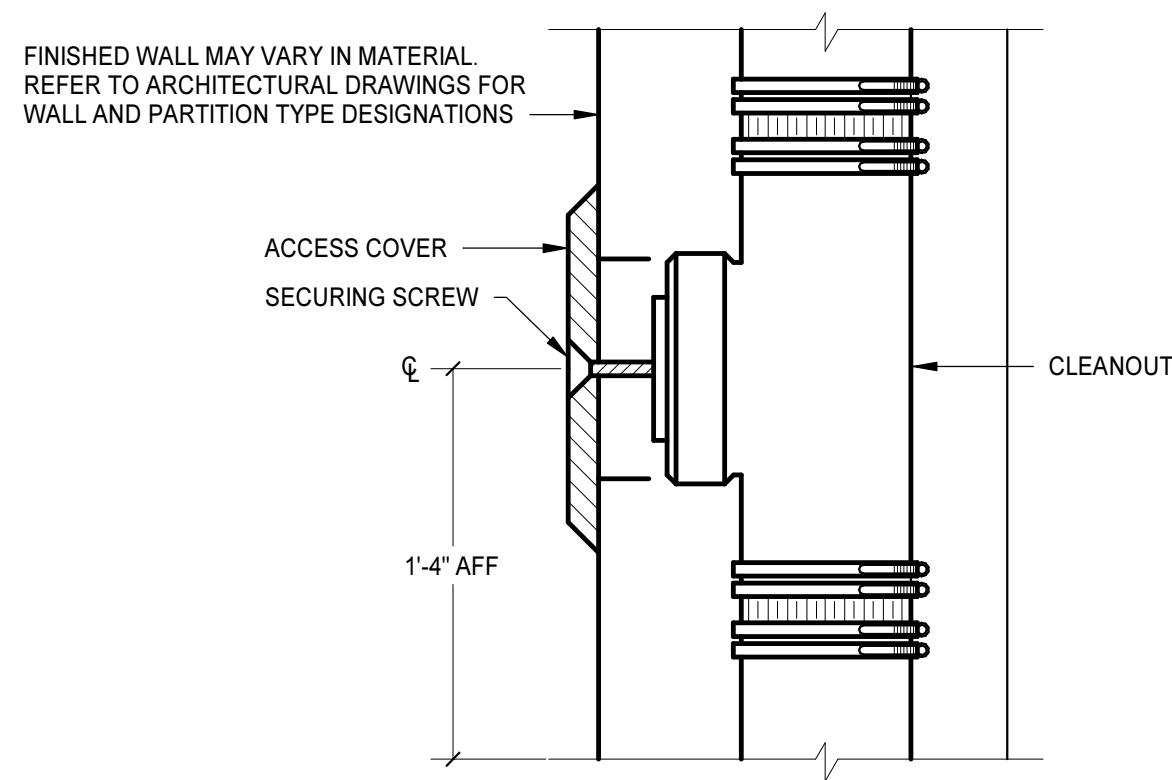
THERMOSTATIC MIXING VALVE DETAIL
NO SCALE



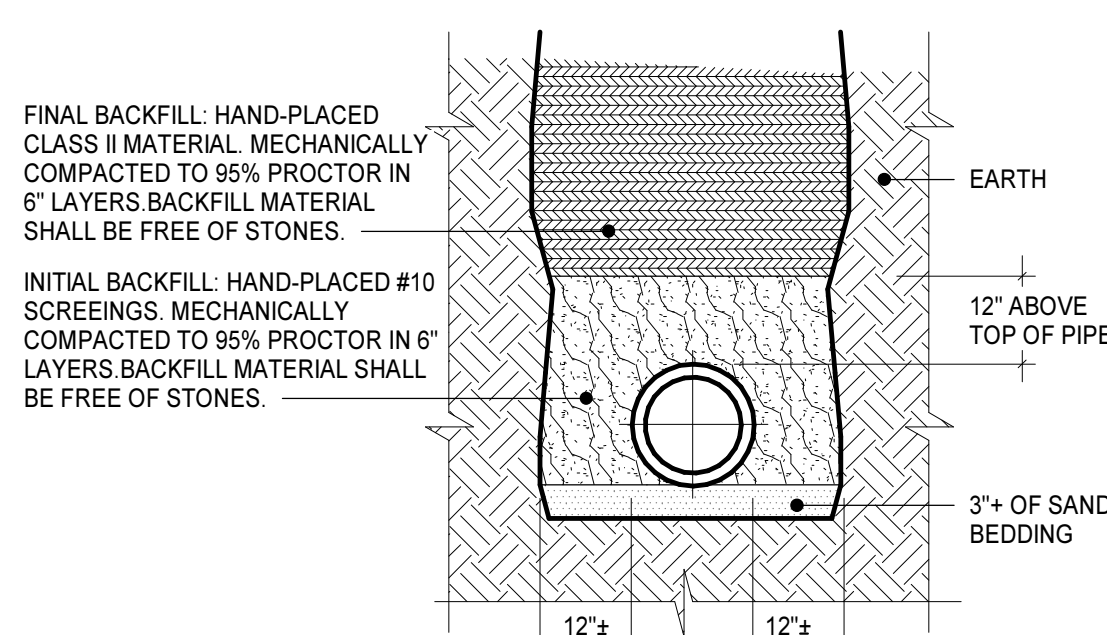
PIPE SLEEVE DETAIL
NO SCALE



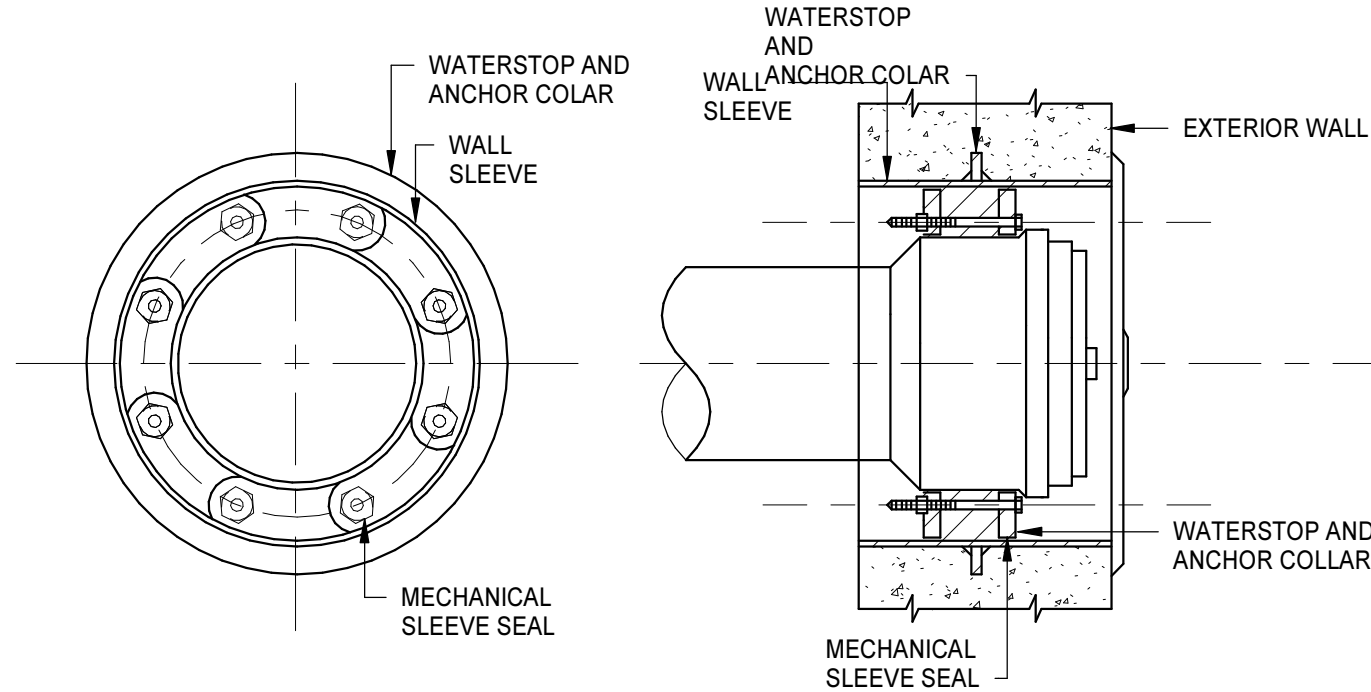
PVC PIPE BEDDING DETAIL
NO SCALE



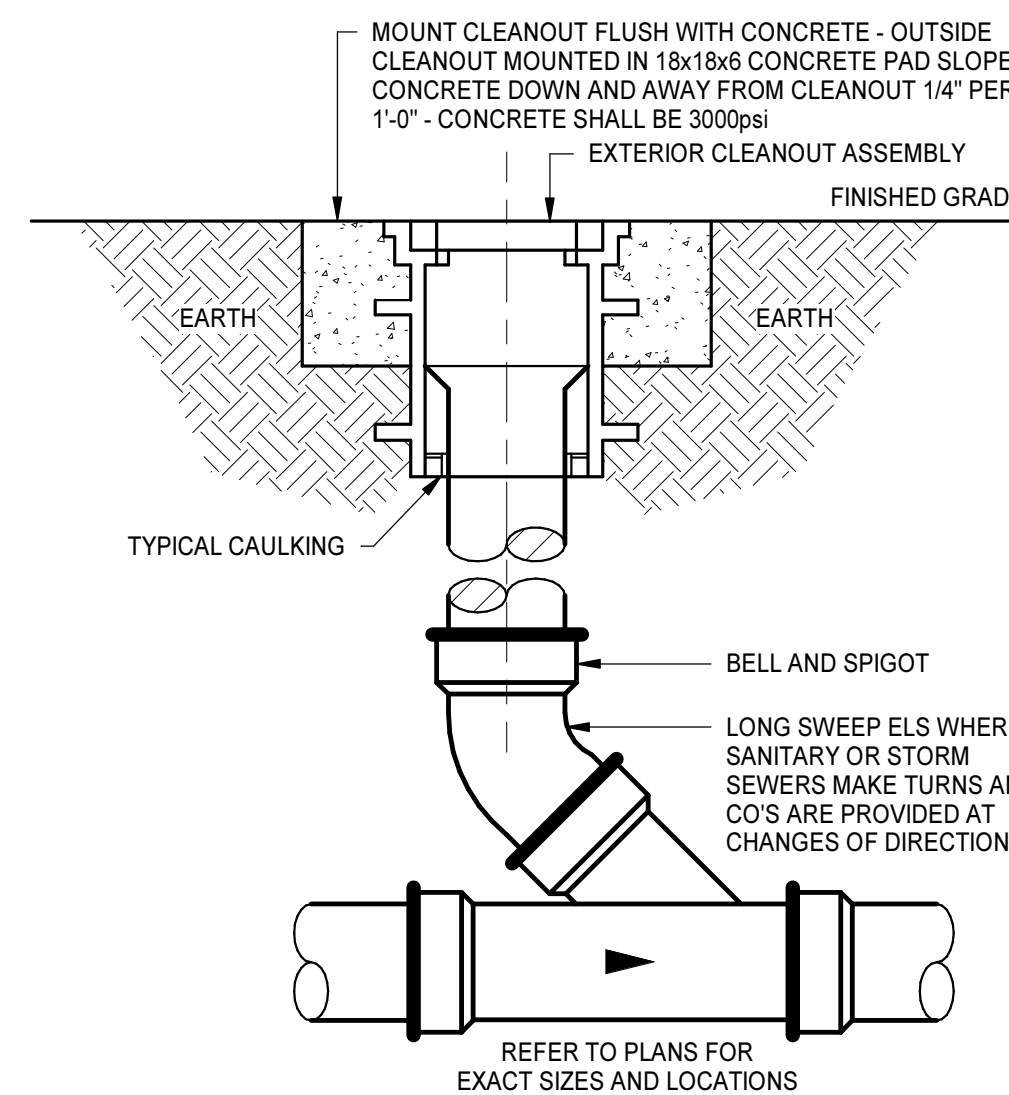
WALL CLEANOUT DETAIL
NO SCALE



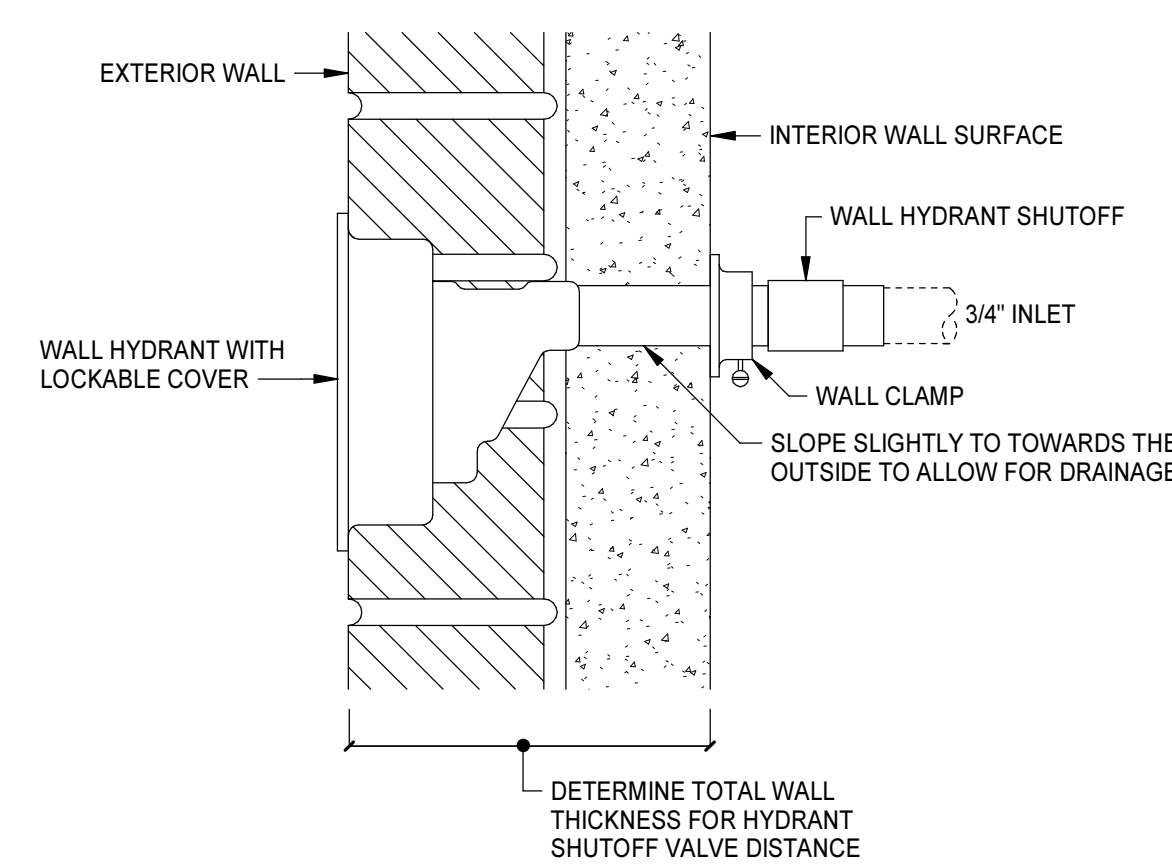
CAST IRON PIPE BEDDING DETAIL
NO SCALE



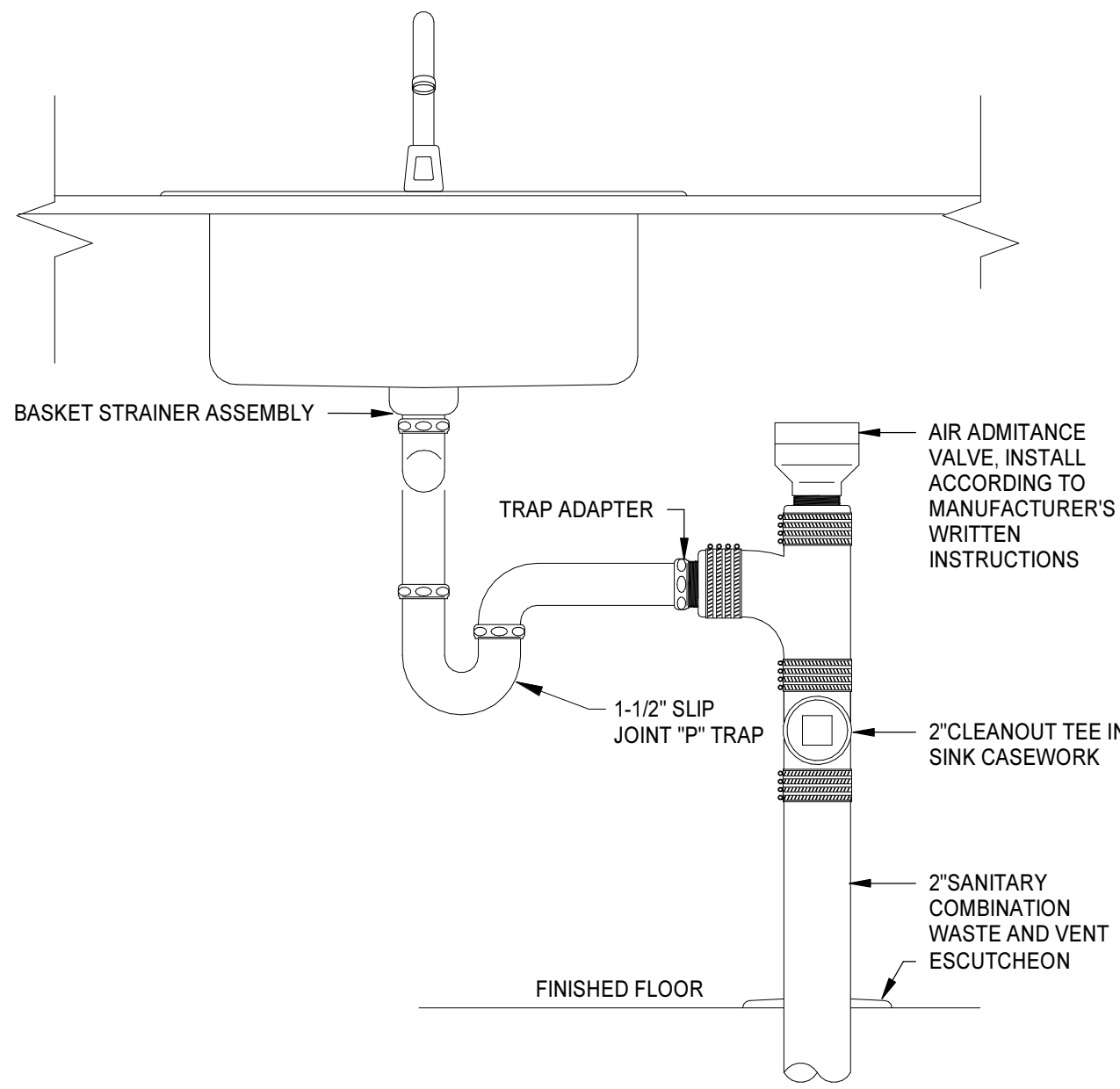
MECHANICAL SLEEVE SEAL DETAIL
NO SCALE



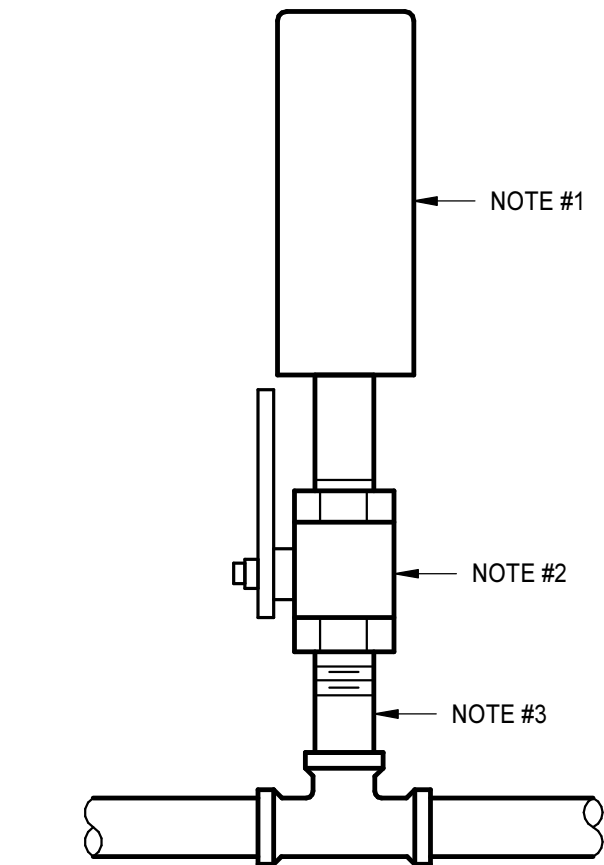
EXTERIOR YARD CLEANOUT DETAIL
NO SCALE



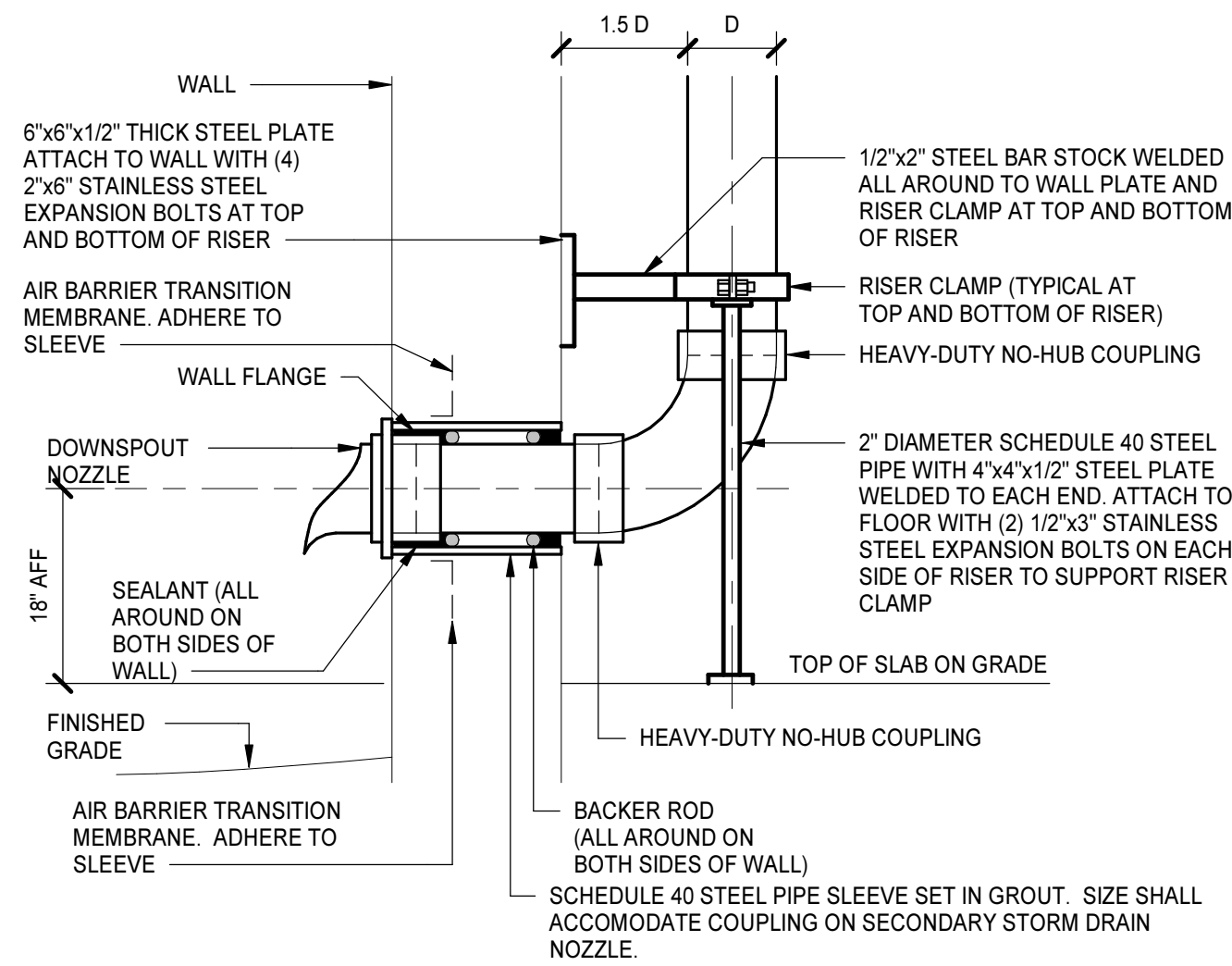
EXTERIOR WALL HYDRANT DETAIL
NO SCALE



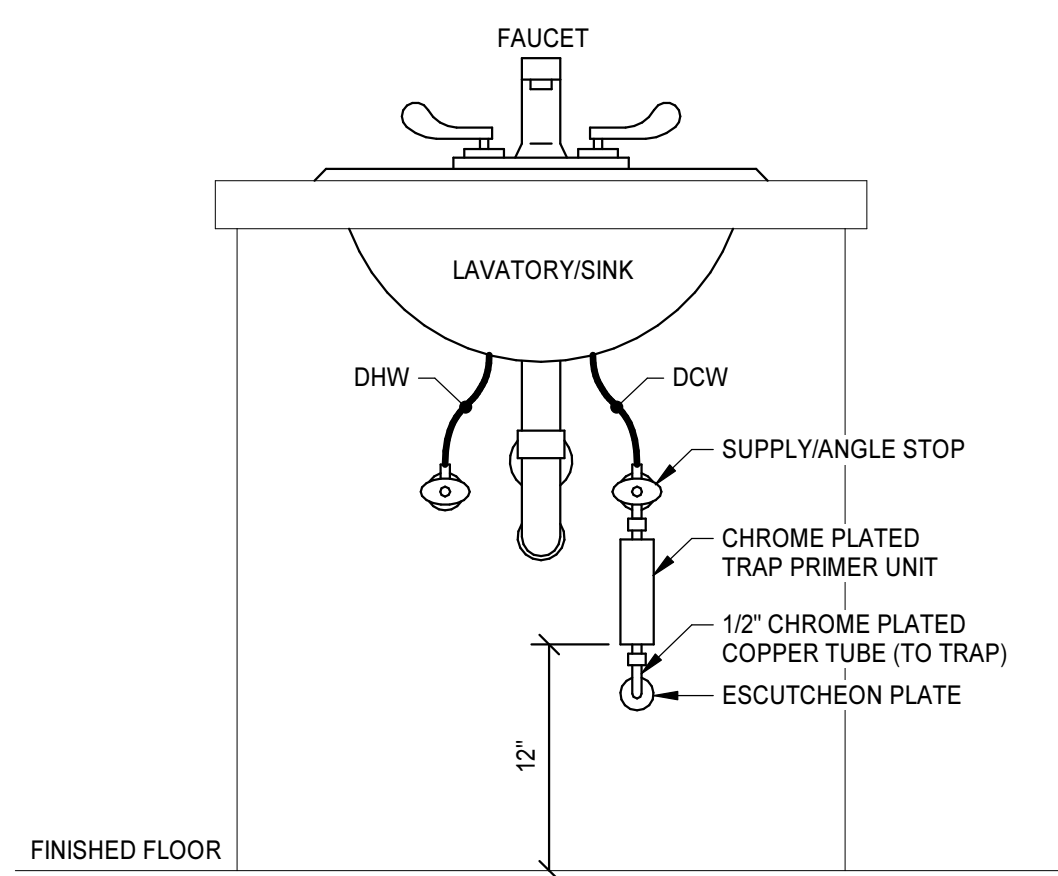
AIR ADMITTANCE VALVE DETAIL
NO SCALE



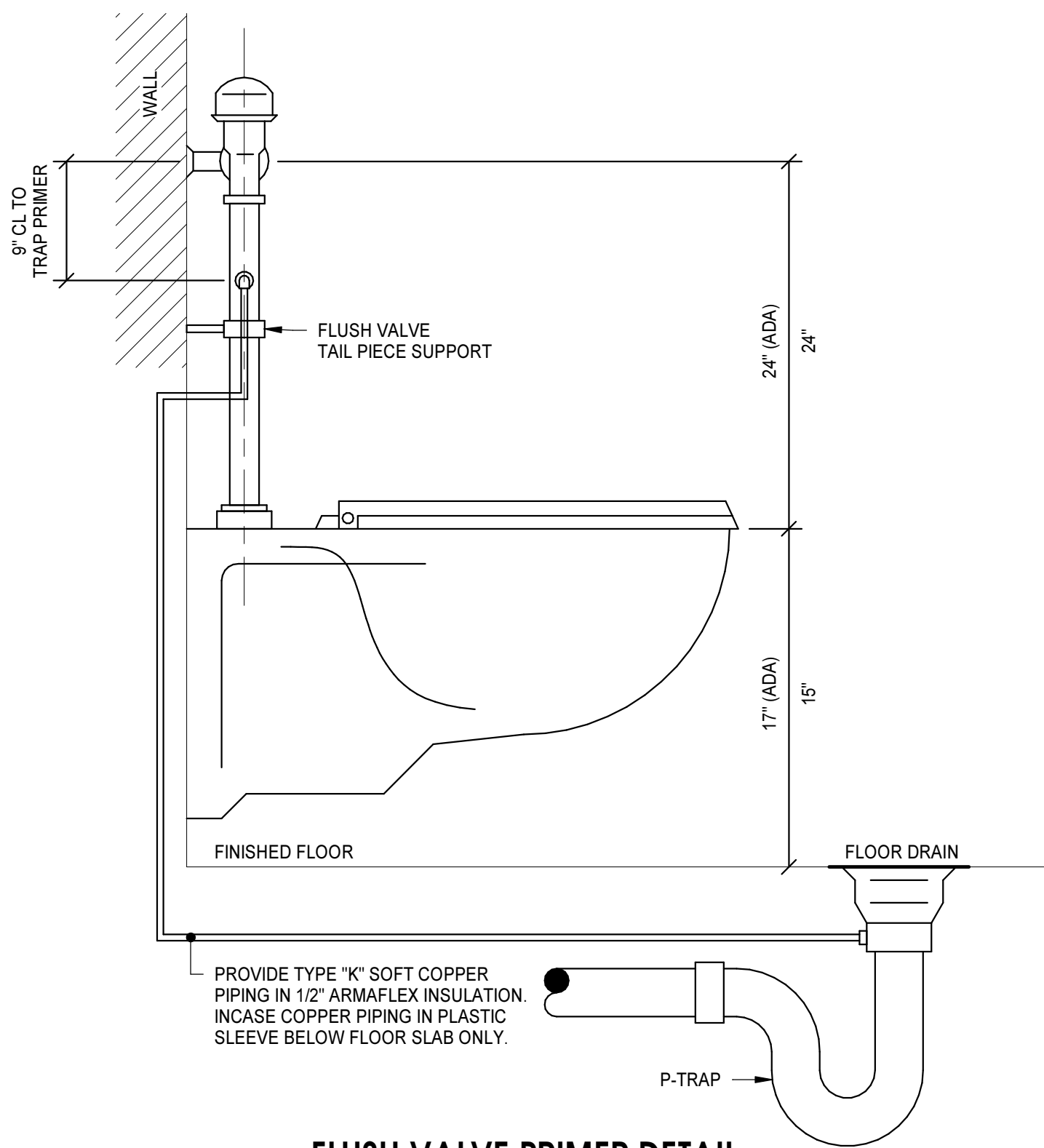
WATER HAMMER ARRESTOR DETAIL
NO SCALE



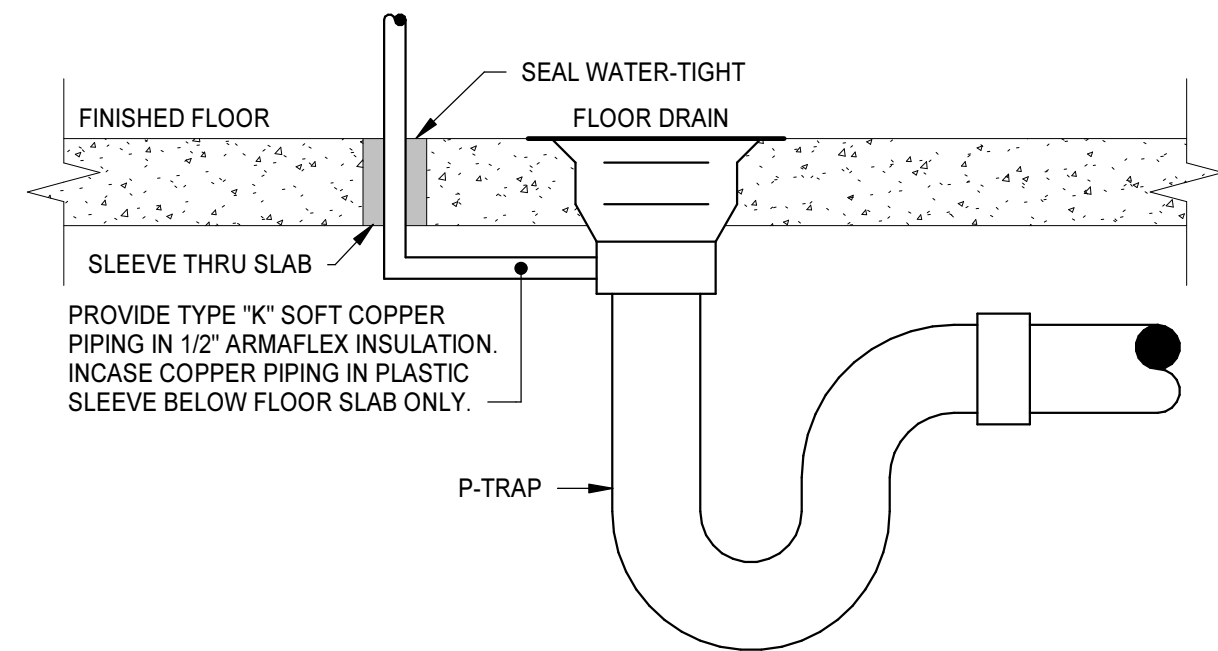
SECONDARY STORM
DRAIN DISCHARGE NOZZLE DETAIL
NO SCALE



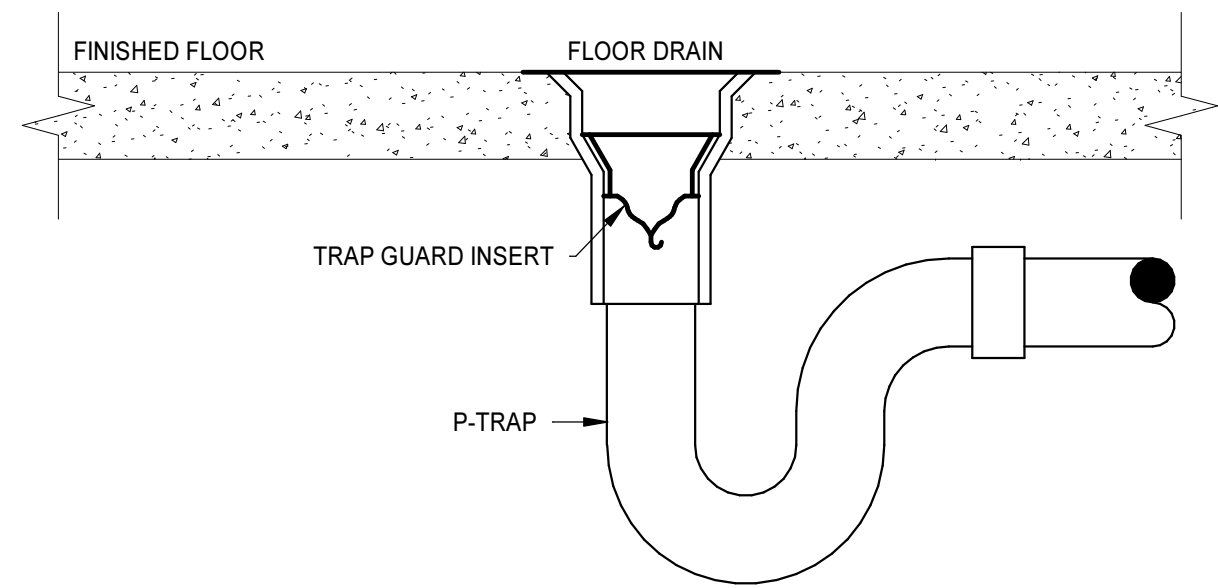
UNDER-LAV/SINK TRAP PRIMER DETAIL



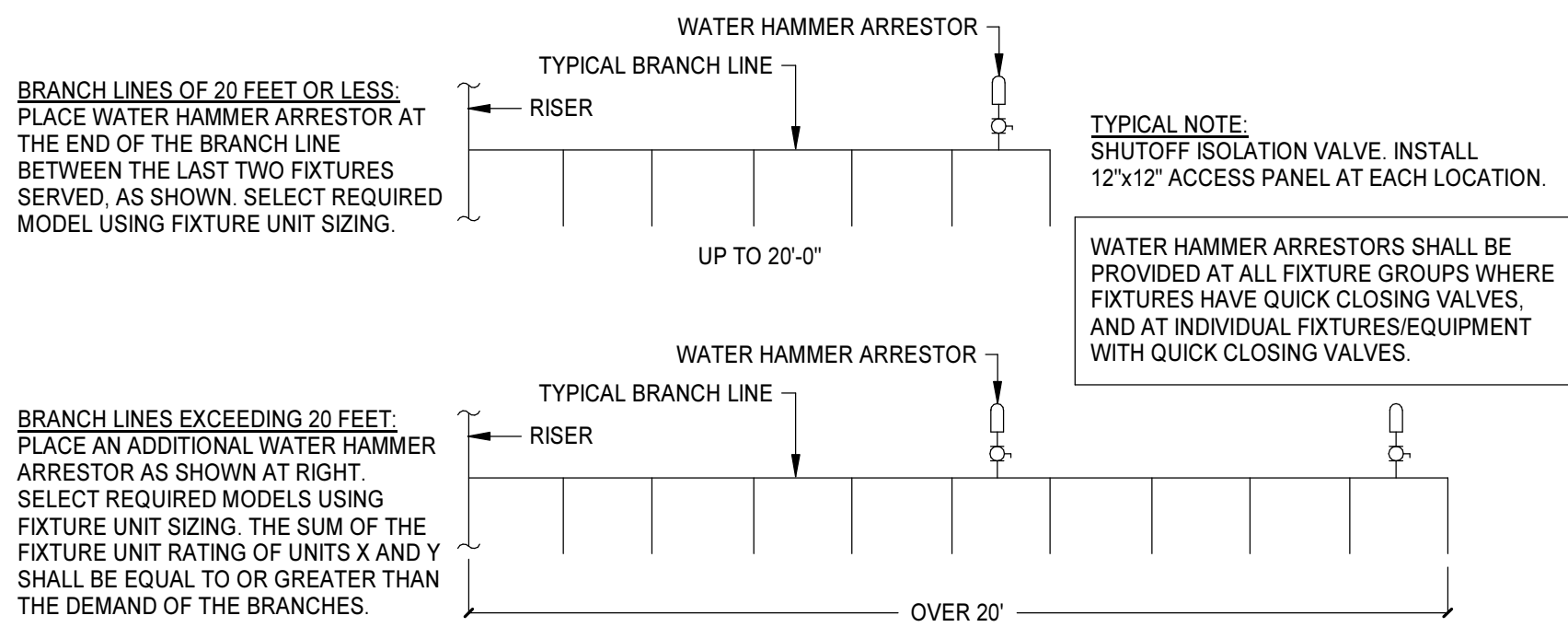
FLUSH VALVE PRIMER DETAIL



MECHANICAL PRIMER DETAIL



TRAP GUARD INSERT DETAIL



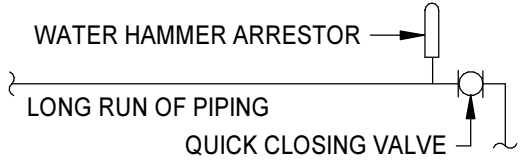
LENGTH OF PIPE	NOMINAL PIPE DIAMETERS					
	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
25'	A	A	B	C	D	E
50'	A	B	C	D	E	F
75'	B	C	D	AE	F	EF
100'	C	D	E	F	CF	FF
125'	C	D	F	AF	EF	EFF
150'	D	E	F	DF	FF	FFF

CONN. SIZE	PDI SIZE	FIXTURE UNIT CAPACITY	CUBIC INCH VOLUME
1/2"	A	1 TO 11	5
3/4"	B	12 TO 32	7
1"	C	33 TO 60	11
1"	D	61 TO 113	20
1"	E	114 TO 154	29
1"	F	155 TO 330	34

NOTE: MATCH TOTAL FIXTURE UNITS OF BRANCH LINE TO CORRECT SIZE OF WATER HAMMER ARRESTOR.

WHEN LONG RUNS OF PIPING ARE EMPLOYED TO SERVE REMOTE EQUIPMENT, WATER HAMMER ARRESTOR SHOULD BE LOCATED AS CLOSE AS POSSIBLE TO THE POINT OF QUICK CLOSURE OR HAMMER SOURCE.

THE SIZE AND QUANTITY OF WATER HAMMER ARRESTORS TO BE INSTALLED IN BRANCH LINES IS SHOWN IN TABLE. WHEN FLOW PRESSURE OF 65 PSIG TO 85 PSIG ARE USED, THE NEXT LARGER SIZE SHOULD BE SELECTED.



CODE	PDI SIZE	FIXTURE UNITS
SA-1	A	1-11
SA-2	B	12-32
SA-3	C	33-60
SA-4	D	61-113
SA-5	E	114-154
SA-6	F	155-330

SHOCK ABSORBER SELECTION TABLE

WATER HAMMER ARRESTOR INSTALLATION & SIZING DETAIL

NO SCALE

- NOTES:
1. PRIMERS, VALVES, AND ASSOCIATED PIPING SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS.
 2. PROVIDE DISTRIBUTION UNIT SIZED FOR NUMBER OF DRAINS TO BE SERVED BY EACH INDIVIDUAL PRIMER.
 3. DISTRIBUTION UNIT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

TRAP PRIMER SCHEDULE					
TAG	BASIS OF DESIGN		ACTIVATION METHOD	QUANTITY OF TRAP SERVED	NOTES
	MANUFACTURER	MODEL			
TPV-1	PPP INC.	PR-500	MECHANICAL	1-4	1
1. PROVIDE MANUFACTURER'S DISTRIBUTION UNIT (DU) ON PRIMER ASSEMBLY TO ACCOMMODATE NUMBER OF TRAPS SERVED BY UNIT AS INDICATED ON DRAWINGS.					

DRAIN AND CLEANOUT SCHEDULE				
TAG	BASIS OF DESIGN		STRAINER/GRATE	NOTES
	MANUFACTURER	MODEL		
DSN-1	JOSAM	25010-BS	DOWNSPOUT NOZZLE	
FD-1	JOSAM	30000-8A-49-VP	8" ROUND	1
FCO	JOSAM	55000-1-VP	FLOOR CLEANOUT	
GCO	JOSAM	58680-CO-VP	GRADE CLEANOUT	
RD-1	JOSAM	21500-AE-3-26	15" ROUND	
OD-1	JOSAM	21500-AE-3-26-16	15" ROUND	
WCO	JOSAM	58600-VP	WALL CLEANOUT	
1. PROVIDE TRAP PRIMER CONNECTION AND EXTENSION SEE DETAIL.				

PLUMBING FIXTURE SCHEDULE											
TAG	FIXTURE	BASIS OF DESIGN	HEIGHT A.F.F.	PIPE SIZE					FLOW RATE	NOTES	
				COLD WATER	TEPID WATER	HOT WATER	VENT	SOIL WASTE			
EW-1	BI LEVEL WATER COOLER WITH BOTTLE FILLING STATION (ACCESSIBLE)	FIXTURE: ELKAY EMABFTL8WSSK	TOP OF BUBBLER AT 39", LOWER AT 34"	1/2"			1-1/2"	1-1/2"	NA	1	
LA-1	LAVATORY, COUNTERTOP (ACCESSIBLE)	FIXTURE: ZURN Z5114 FAUCET: ZURN Z81101-XL-G-HCT-25M	COUNTER MOUNTED REFER TO ARCH DWGS	1/2"		1/2"	1-1/2"	1-1/2"	0.35 GPM	1, 3	
LA-2	WALL-HUNG LAVATORY (ACCESSIBLE)	FIXTURE: ZURN Z5310 FAUCET: ZURN Z81101-XL-G-HCT-25M	RIM AT 34"	1/2"		1/2"	1-1/2"	1-1/2"	0.35 GPM	1, 3	
LA-3	WALL-HUNG WASHFOUNTAIN (ACCESSIBLE)	FIXTURE: BRADLEY MF2939	RIM AT 34"	1/2"		1/2"	1-1/2"	1-1/2"	0.50 GPM	1, 3	
MB-1	SERVICE BASIN (32"x32")	FIXTURE: FIAT TS83001 FAUCET: ZURN Z834M4-XL-CS-HCT	RIM AT 12"	3/4"		3/4"	2"	3"	NA		
RH-1	ROOF HYDRANT (FREEZE-RESISTANT)	FIXTURE: ZURN Z1388XL-AC-VB	ROOF DECK	3/4"							
SK-1	KITCHENETTE SINK (ACCESSIBLE)	FIXTURE: ELKAY LRADD-221965 FAUCET: ZURN Z82300-XL-CP4-3M	COUNTER MOUNTED REFER TO ARCH DWGS	1/2"		1/2"	1-1/2"	1-1/2"	0.50 GPM	1, 3	
SK-2	STAINLESS STEEL UTILITY SINK	FIXTURE: ELKAY WNSF91302 FAUCET: ZURN Z842H-XL-HCT-3F	RIM AT 36"	1/2"		1/2"	1-1/2"	1-1/2"	0.50 GPM	3	
SH-1	INDIVIDUAL SHOWER WITH FOLDING SEAT (ACCESSIBLE)	ENCLOSURE: BY OTHERS VALVE: ZURN Z7301-SS-MT-DV2P-HW-H9-S9	CONTROLS AT 42" SHOWERHEAD AT 78"	1/2"		1/2"	1-1/2"	1-1/2"	1.50 GPM	1, 4	
SH-2	INDIVIDUAL SHOWER	ENCLOSURE: BY OTHERS VALVE: ZURN Z7301-SS-MT-DV2P-HW-H9-S9	CONTROLS AT 42" SHOWERHEAD AT 78"	1/2"		1/2"	1-1/2"	1-1/2"	1.50 GPM	1, 4	
UR-1	URINAL (ACCESSIBLE)	FIXTURE: ZURN Z5755 VALVE: ZURN Z6903AV-ULF	RIM AT 17"	3/4"			2"	2"	0.125 GPF	1, 2	
WC-1	WALL-HUNG CARRIER WATER CLOSET (ACCESSIBLE)	FIXTURE: SLOAN SU-2459-STG VALVE: SLOAN ECOS-111-1.28-1.1-HW	TOP OF SEAT AT 17"	1"			2"	4"	1.28 GPF	1, 2	
WC-2	WALL-HUNG CARRIER WATER CLOSET	FIXTURE: SLOAN SU-2459-STG VALVE: SLOAN ECOS-111-1.28-1.1-HW	TOP OF SEAT AT 15"	1"			2"	4"	1.28 GPF	2	
WH-1	WALL HYDRANT (FREEZE-RESISTANT)	FIXTURE: ZURN Z1320XL-CL-WC	CENTERLINE OF OUTLET AT 18"	3/4"					NA		
WSB-1	WATER SUPPLY BOX	FIXTURE: GUYGRAY BIM875QTSAB	BOTTOM AT 8"	1/2"					NA		
NOTES:											
1. THIS ACCESSIBLE FIXTURE, ACCESSORIES, AND INSTALLATION SHALL CONFORM TO THE VUSBC AND ASAD 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN.											
2. LOCATE FLUSH ACTUATORS ON WIDE SIDE OF STALLS OR APPROACH AREAS.											
3. PROVIDE ASSE 1070 CERTIFIED MIXING VALVE IN CHASE WALL OR BELOW FIXTURE.											
4. PROVIDE ASSE 1016 CERTIFIED MIXING VALVE.											

BOOSTER PUMP SCHEDULE																	
TAG	BASIS OF DESIGN		LOCATION	NO. OF PUMPS	GPM (EACH PUMP)	SYSTEM PRESSURE VALUES				MOTOR DATA AND VALUES			ELECTRICAL DATA				NOTES
	MANUFACTURER	MODEL				TDH (FEET)	SUCTION (PSI)	BOOST (PSI)	SET (PSI)	RPM	HP	KW PER YR	VOLTAGE	PHASE	FULL LOAD	MAX. SCCR	
DWP-1	QUANTUMFLO	PRODIGY DUPLEX OEB_200/5	EQUIPMENT AND FILE STORAGE A-108	2	70	87.73	33	37.98	65.98	3450	3	6682.5	460	3	10.2	100KAIC	1, 2, 3, 4, 5, 6, 7, 8, 9
DWP-2	QUANTUMFLO	PRODIGY DUPLEX OEB_120/3	CLOSET B-104	2	35	85.42	34	36.98	65.98	3450	1.5	3341.25	460	3	7	100KAIC	1, 2, 3, 4, 5, 6, 7, 8, 10
NOTES:																	
1. NET BOOST PRESSURE IS CALCULATED BY SYSTEM SET PRESSURE MINUS SUCTION PRESSURE LESS SYSTEM LOSSES OF 5 PSI.																	
2. SYSTEM SUBMITTALS SHALL INCLUDE CERTIFICATE NUMBER FOR NSF61 CERTIFICATION, UL508A AND QCZJ 3RD PARTY COMPLIANCE.																	
3. SYSTEM CONTROLS MUST COMPLY WITH AND PROVIDE FOR EITHER CONTROL LOGIC OR REMOTE SENSOR IN ACCORDANCE WITH ANSI/ASHRAE/IES STANDARD 90.1 ENERGY STANDARD.																	
4. PROVIDE 5-YEAR WARRANTY ON COMPLETE SYSTEM AND INCLUDE WARRANTY CERTIFICATE WITH DETAILS IN SUBMITTALS.																	
5. SYSTEM SHALL BE PRE-SET TO SYSTEM SITE CONDITIONS BY SIMULATING SUCTION PRESSURE. HYDROSTATIC-ONLY TESTING IS NOT ACCEPTABLE.																	
6. THE INDUSTRIAL CONTROLLER SHALL BE IN COMPLIANCE WITH CURRENT NEC, SECTION 409.110 HAVING A MAXIMUM 100K AVAILABLE FAULT CURRENT.																	
7. SCCR RATINGS MUST BE INCLUSIVE OF ALL COMPONENTS WITHIN THE ENCLOSURE WITHOUT THE NEED TO PROVIDE ADDITIONAL UPSTREAM PROTECTION.																	
8. EQUAL SYSTEMS MUST SHOW MATHEMATICAL ANALYSIS PROVING THAT THE ALTERNATE SUPPLIER MEETS OR EXCEEDS THE KW CAPACITY LISTED.																	
9. PROVIDE THE FOLLOWING OPTIONS: MONITORING PROTOCOL: BACNET, 44 GALLON SHOCK SUPPRESSOR TANK & VALVING.																	
10. PROVIDE THE FOLLOWING OPTIONS: MONITORING PROTOCOL: BACNET, 20 GALLON SHOCK SUPPRESSOR TANK & VALVING.																	

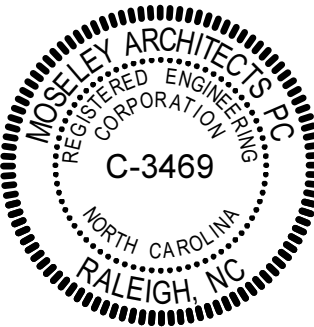
PUMP SCHEDULE																
TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	PUMP TYPE	OPERATING DATA					ELECTRICAL DATA			CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				FLOW (GPM)	PRESSURE (FEET OF HEAD)	EFFICIENCY	POWER (HP)	SPEED (RPM)	VOLTS	PHASE	HERTZ	INLET (IN)	OUTLET (IN)	
RCP-1	GRUNDFOS	MAGNA3 32-60 F	EQUIPMENT ROOM	JANITOR CLOSET	CIRCULATION	4.50	11.00	74%	0.045	2594	120	1	60	0.75	0.75	

TANK SCHEDULE												
TAG	BASIS OF DESIGN		LOCATION	SYSTEM TYPE	TANK TYPE	OPERATING DATA			ASME CODE CONSTRUCTION (YES/NO)	CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL				VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	AIR PRE-CHARGE PRESSURE (PSIG)		INLET (IN)	OUTLET (IN)	
ET-1	AMTROL	ST-12C	JANITOR CLOSET A-108	DHW	EXPANSION	6.00	3.00	42.00	YES	0.75	0.75	

AIR COMPRESSOR SCHEDULE														
TAG	BASIS OF DESIGN		LOCATION	TANK VOLUME (GAL)	OPERATING DATA			ELECTRICAL DATA				CONNECTION SIZE		NOTES
	MANUFACTURER	MODEL			AIR FLOW (CFM)	MAX. WORKING PRESSURE (PSI)	DESIGN SYSTEM PRESSURE (PSI)	VOLTAGE	PHASE	HERTZ	HP	INLET (IN)	OUTLET (IN)	
ACP-1	INGERSOLL RAND	2340L-5	COMPRESSOR RM B-105	60	14.30	175	100	480	3	60	5.00	1.00	1.00	

ELECTRIC WATER HEATER SCHEDULE												
TAG	BASIS OF DESIGN		CAPACITY (GALLONS)	RECOVERY RATE (GPH)	TEMPERATURE RISE (°F)	THERMAL EFFICIENCY	ELECTRICAL DATA				TEMPERATURE SETTING (°F)	NOTES
	MANUFACTURER	MODEL					INPUT RATE	VOLTAGE	PHASE	HERTZ		
EW-1	A.O. SMITH	DRE-120	119	55	100	97%	13.5KW	480	3	60	140	1
EW-2	A.O. SMITH	DEL-30	36	49	100	93%	6	480	3	60	140	
1. KW INPUT RATE FOR ELECTRIC WATER HEATERS BASED ON FULL LOAD SIMULTANEOUS OPERATION.												

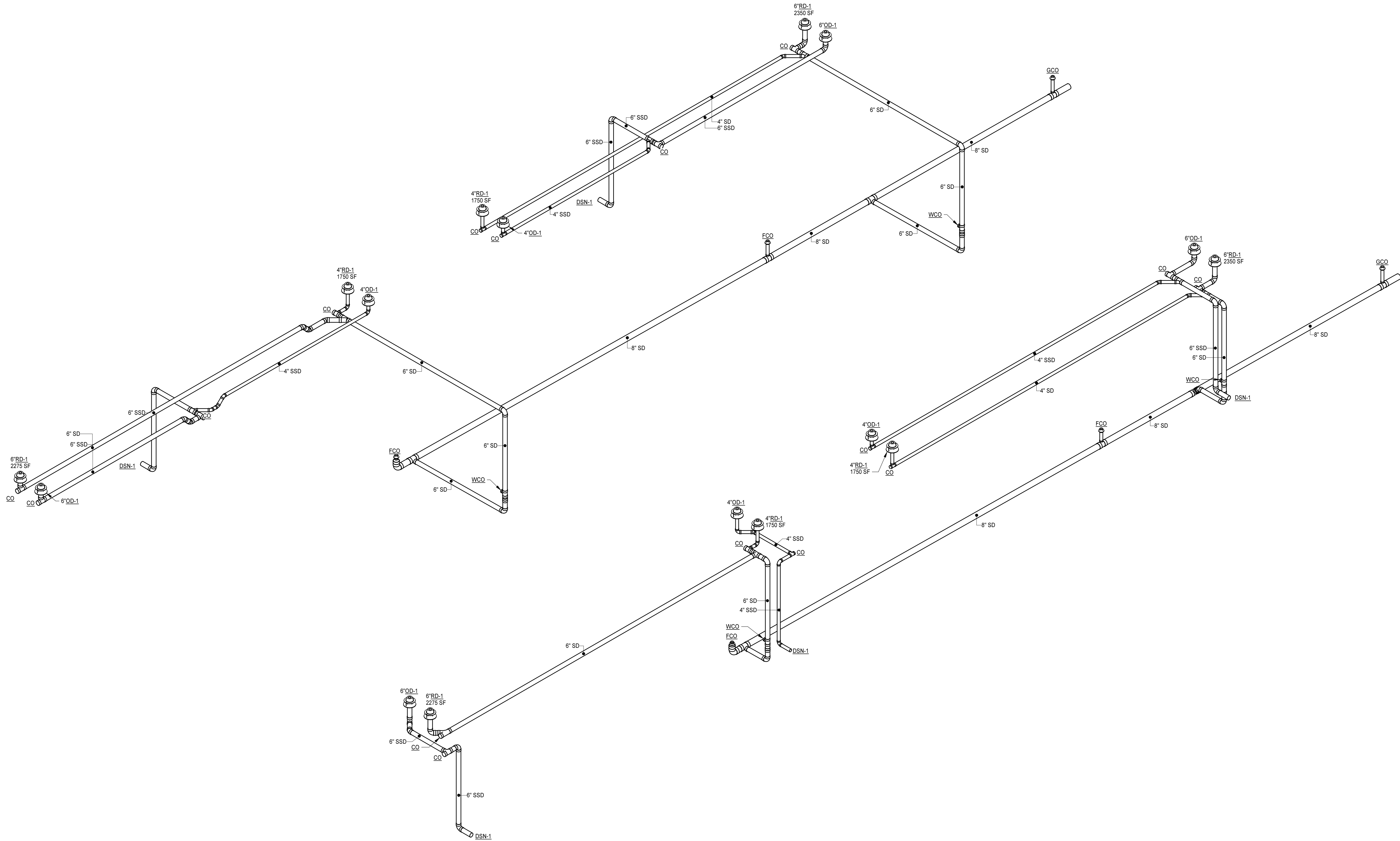
THERMOSTATIC MIXING VALVE SCHEDULE										
TAG	BASIS OF DESIGN		DESIGN RANGE (GPM)	FLOW (GPM)	MAX. P.D. AT DESIGN FLOW	HW SYSTEM TEMPERATURES		CONNECTION SIZES		NOTES
	MANUFACTURER	MODEL				INLET	OUTLET	INLET	OUTLET	
TMV-1	POWERS	LFSH1434	0.50 - 22.00	0.50 - 42.00	5 PSI	110°F / 140°F	120°F	1.50"	1.50"	1, 2
TMV-2	POWERS	LFSH1432	0.50 - 14.00	0.50 - 19.00	5 PSI	110°F / 140°F	120°F	1.00"	1.00"	1, 2
1. PROVIDE THERMOSTATIC MIXING VALVE ASSEMBLY WITH STAINLESS STEEL LOCKABLE, WALL MOUNTED CABINET AND T/P GAUGES ON INLETS AND OUTLET. 2. PROVIDE ASSE-1070 UNIT FOR ALL LAVATORIES, NON-COMMERCIAL KITCHEN SINKS, AND KITCHEN HAND SINKS.										



PROJECT NO: 800646	REVISIONS
DATE: AUGUST 14, 2023	

DATE	DESCRIPTION

STORM RISER DIAGRAM

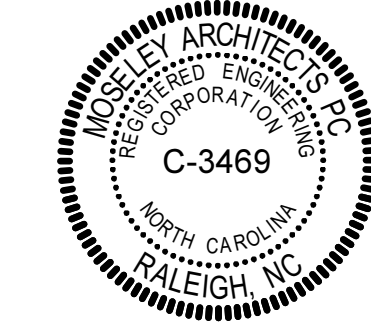


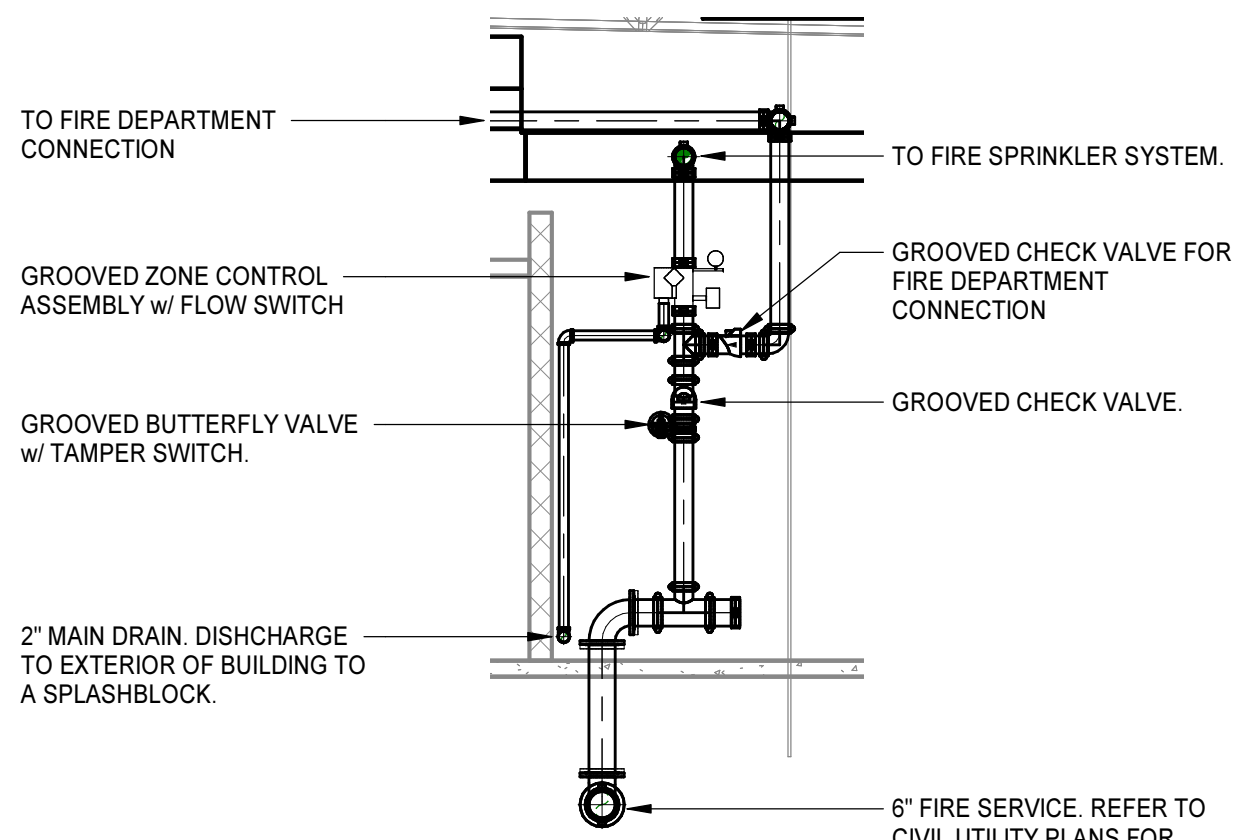
PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

STORM RISER DIAGRAM

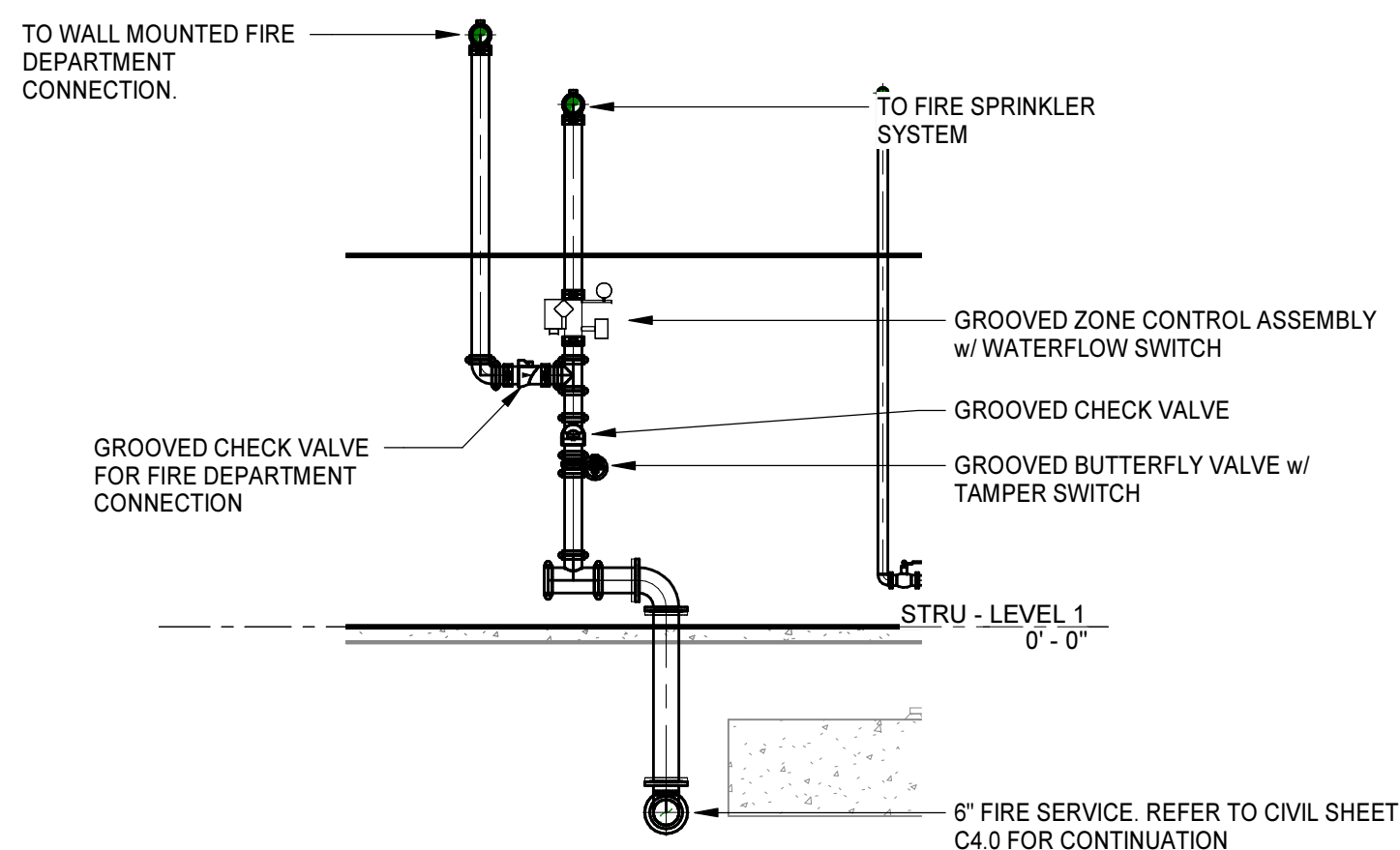
PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217





2 FIRING RANGE RISER DETAIL
FP2.1 FP0.1 1/4" = 1'-0"



1 CLASSROOM RISER DETAIL "A"
FP2.1 FP0.1 1/4" = 1'-0"

ABBREVIATIONS

ABV	ABOVE	AT	ABOVE FINISHED FLOOR
AFG	AIR HANDLING UNIT	BLDG	BUILDING
CL	CENTERLINE	CLG	COLUMN
COL	CONCRETE	CONC	CONTINUATION
CONC	CORRIDOR	CORR	CLASSROOM
CR	CUBIC	CU	CUBIC FEET
CU	DEGREES	DCW	DOMESTIC COLD WATER
DCW	DEMOLISH OR DEMOLITION	DEMO	DIA
DEMO	DUCTILE IRON PIPE	DIP	DOWN
DIA	DOWN	DN	DOWN
DIP	DOWNPOUT	DP	DETAIL
DN	DRAWING	DTL	DRAWING
DOWNPOUT	EAST	E	ELECTRIC CEILING HEATER
DRAWING	EXHAUST FAN	EF	EXTRA HAZARD GROUP 1
EAST	EXTRA HAZARD GROUP 2	EH-1	EXTRA HAZARD GROUP 2
EXHAUST FAN	ELECTRICAL	EH-2	ELECTRICAL
EXTRA HAZARD GROUP 1	EQUAL	ELEC	EQUIPMENT
EXTRA HAZARD GROUP 2	EXPANSION TANK	EQ	EXPANSION TANK
ELECTRICAL	EXISTING TO REMAIN	EQUIP	EXISTING TO REMAIN
EQUIPMENT	ELECTRIC WATER HEATER	ETR	EXISTING
EXPANSION TANK	EXISTING	EW	EXISTING
EXISTING TO REMAIN	EXPANSION	EX	EXPANSION
ELECTRIC WATER HEATER	FARENHEIT	EXP	FARENHEIT
EXISTING	FIRE DAMPER	F	FIRE DAMPER
EXPANSION	FIRE DEPARTMENT CONNECTION	FD	FIRE DEPARTMENT CONNECTION
FARENHEIT	FINISHED GRADE	FG	FINISHED GRADE
FIRE DAMPER	FIRE HYDRANT	FH	FIRE HYDRANT
FIRE DEPARTMENT CONNECTION	FIRE HOSE CABINET	FHC	FIRE HOSE CABINET
FINISHED GRADE	FIRE HOSE STATION	FHS	FIRE HOSE STATION
FIRE HYDRANT	FIRE HOSE VALVE CABINET	FHV	FIRE HOSE VALVE CABINET
FIRE HOSE CABINET	FLOOR	FLR	FLOOR
FIRE HOSE STATION	FIRE PROTECTION	FP	FIRE PROTECTION
FIRE HOSE VALVE CABINET	FOOT OR FEET	FT	FOOT OR FEET
FLOOR	FIRE VALVE CABINET	FD	FIRE VALVE CABINET
FIRE PROTECTION	GALLONS	GAL	GALLONS
FOOT OR FEET	GALLONS PER MINUTE	GPM	GALLONS PER MINUTE
FIRE VALVE CABINET	GAS-FIRED UNIT HEATER	GUH	GAS-FIRED UNIT HEATER
GALLONS	HOSE BIB	HB	HOSE BIB
GALLONS PER MINUTE	HEAD	HD	HEAD
GAS-FIRED UNIT HEATER	HORIZONTAL	HORIZ	HORIZONTAL
HOSE BIB	HORSEPOWER	HP	HORSEPOWER
HEAD	HOT WATER	HW	HOT WATER
HORIZONTAL	INSIDE DIAMETER	ID	INSIDE DIAMETER
HORSEPOWER	INCH	IN	INCH
HOT WATER	INSULATE OR INSULATION	INSUL	INSULATE OR INSULATION
INSIDE DIAMETER	JANITOR	JAN	JANITOR
INCH	KITCHEN	KIT	KITCHEN
INSULATE OR INSULATION	KILOWATT(S)	KW	KILOWATT(S)
JANITOR	LABORATORY	LAB	LABORATORY
KITCHEN	LAVATORY	LAV	LAVATORY
KILOWATT(S)	POUNDS	LBS	POUNDS
LABORATORY	LINEAR FOOT (FEET)	LF	LINEAR FOOT (FEET)
LAVATORY	LIGHT HAZARD	LH	LIGHT HAZARD
POUNDS	MATERIAL	MATL	MATERIAL
LINEAR FOOT (FEET)	MAXIMUM	MAX	MAXIMUM
LIGHT HAZARD	MECHANICAL	MECH	MECHANICAL
MATERIAL	MANUFACTURER	MFR	MANUFACTURER
MAXIMUM	MANHOLE	MH	MANHOLE
MECHANICAL	MINIMUM	MIN	MINIMUM
MANUFACTURER	MISCELLANEOUS	MISC	MISCELLANEOUS
MANHOLE	MOUNTED	MTD	MOUNTED
MINIMUM	NORTH	N	NORTH
MISCELLANEOUS	NOT APPLICABLE/AVAILABLE	NA	NOT APPLICABLE/AVAILABLE
MOUNTED	NORMALLY CLOSED	NC	NORMALLY CLOSED
NORTH	NOT IN CONTRACT	NIC	NOT IN CONTRACT
NOT APPLICABLE/AVAILABLE	NORMALLY OPEN	NO	NORMALLY OPEN
NORMALLY CLOSED	NUMBER	NO OR #	NUMBER
NOT IN CONTRACT	ON CENTER	OC	ON CENTER
NORMALLY OPEN	OUTSIDE DIAMETER	OD	OUTSIDE DIAMETER
NUMBER	OWNER FURNISHED CONTRACTOR INSTALLED	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
ON CENTER	OFFICE	OFF	OFFICE
OUTSIDE DIAMETER	ORDINARY HAZARD GROUP 1	OH-1	ORDINARY HAZARD GROUP 1
OWNER FURNISHED CONTRACTOR INSTALLED	ORDINARY HAZARD GROUP 2	OH-2	ORDINARY HAZARD GROUP 2
OFFICE	PUMP	P	PUMP
ORDINARY HAZARD GROUP 1	PRECAST	PC	PRECAST
ORDINARY HAZARD GROUP 2	POST INDICATOR VALVE	PV	POST INDICATOR VALVE
PUMP	POLYETHYLENE	POLY	POLYETHYLENE
PRECAST	PREFABRICATE(D)	PREFAB	PREFABRICATE(D)
POST INDICATOR VALVE	PROJECT	PROJ	PROJECT
POLYETHYLENE	POUNDS PER SQUARE FOOT	PSF	POUNDS PER SQUARE FOOT
PREFABRICATE(D)	POUNDS PER SQUARE INCH	PSI	POUNDS PER SQUARE INCH
PROJECT	POUNDS PER SQUARE INCH GAUGE	PSIG	POUNDS PER SQUARE INCH GAUGE
POUNDS PER SQUARE FOOT	POLYVINYL CHLORIDE	PVC	POLYVINYL CHLORIDE
POUNDS PER SQUARE INCH	RISER	R	RISER
POUNDS PER SQUARE INCH GAUGE	REFERENCE	REF	REFERENCE
POLYVINYL CHLORIDE	REQUIRED	REQ	REQUIRED
RISER	ROOM	RM	ROOM
REFERENCE	REVOLUTIONS PER MINUTE	RPM	REVOLUTIONS PER MINUTE
REQUIRED	ROOF TOP UNIT	RTU	ROOF TOP UNIT
ROOM	SOUTH	S	SOUTH
REVOLUTIONS PER MINUTE	SANITARY	SAN	SANITARY
ROOF TOP UNIT	SCHEDULE	SCH	SCHEDULE
SOUTH	SMOKE DAMPER	SD	SMOKE DAMPER
SANITARY	SHEET	SHT	SHEET
SCHEDULE	SIMILAR	SIM	SIMILAR
SMOKE DAMPER	STATIC PRESSURE	SP	STATIC PRESSURE
SHEET	SPECIFICATION	SPEC	SPECIFICATION
SIMILAR	SPRINKLER	SPR	SPRINKLER
STATIC PRESSURE	SQUARE	SQ	SQUARE
SPECIFICATION	STANDARD	STD	STANDARD
SPRINKLER	STEEL	STL	STEEL
SQUARE	STORAGE	STOR	STORAGE
STANDARD	SWITCH	SW	SWITCH
STEEL	TEMPERATURE	T	TEMPERATURE
STORAGE	THICKNESS	THK	THICKNESS
SWITCH	TILE	TLT	TILE
TEMPERATURE	TOP OF SLAB	TOSL	TOP OF SLAB
THICKNESS	TYPICAL	TYP	TYPICAL
TILE	UNDERGROUND	UG	UNDERGROUND
TOP OF SLAB	UNIT HEATER	UH	UNIT HEATER
TYPICAL	UNLESS UNDOCTED	UI	UNLESS UNDOCTED
UNDERGROUND	UNLESS NOTED (INDICATED) OTHERWISE	UNO	UNLESS NOTED (INDICATED) OTHERWISE
UNIT HEATER	VOLTS	V	VOLTS
UNLESS UNDOCTED	VERTICAL	VERT	VERTICAL
UNLESS NOTED (INDICATED) OTHERWISE	WEST	W	WEST
VOLTS	WITH	W	WITH
VERTICAL	WITHOUT	W/O	WITHOUT
WEST	WATER HEATER	WH	WATER HEATER
WITH			
WITHOUT			
WATER HEATER			

GRAPHICS SYMBOLS LEGEND

	VALVE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON LIGHT HAZARD CLASSIFICATION PROVIDING A DENSITY OF 0.10 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
	GATE VALVE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 1 CLASSIFICATION PROVIDING A DENSITY OF 0.15 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
	VALVE IN RISER		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON ORDINARY HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.20 GPM PER SQUARE FOOT OVER 1500 SQUARE FEET.
	CHECK VALVE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 1 ANITFREEZE PROTECTION, BRANCHING FROM THE LINE THAT SERVES THE AREA. REFER TO ANTI-FREEZE DETAIL.
	SOLENOID VALVE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.30 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FLOW SWITCH		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PRESSURE REDUCING VALVE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	DOUBLE CHECK BACKFLOW PREVENTER		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FIRE PROTECTION WET SPRINKLER PIPING		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FIRE PROTECTION DRY SPRINKLER PIPING		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FIRE EXTINGUISHING GAS PIPING		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FIRE PROTECTION DRY SPRINKLER PIPING		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	UNION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PRESSURE GAUGE WITH GAUGE COCK		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PIPE TURNED DOWN		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PIPE TURNED UP		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PIPE TEE UP		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PIPE TEE DOWN		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PIPE CAP		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PITCH PIPE DOWN IN DIRECTION OF ARROW AT INDICATED SLOPE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FLOW IN DIRECTION OF ARROW		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	CONCENTRIC PIPE REDUCTION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	ECCENTRIC PIPE REDUCTION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PUMP		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	FIRE DEPARTMENT CONNECTION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PENDANT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	CONCEALED PENDANT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	EXTENDED COVERAGE PENDANT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	CONCEALED EXTENDED COVERAGE PENDANT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PENDANT SPRINKLER HEAD WITH GUARD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	UPRIGHT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	EXTENDED COVERAGE UPRIGHT SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	UPRIGHT SPRINKLER HEAD WITH GUARD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	SIDEWALL SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	EXTENDED COVERAGE SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	CONCDEALED EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	EXTINGUISHING AGENT DISCHARGE NOZZLE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	COMBINATION AUDIBLE AND STROBE ALARM		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	MANUAL PULL STATION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	ABORT SWITCH		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	IONIZATION SMOKE DETECTOR		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	PHOTOELECTRIC SMOKE DETECTOR		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	POINT OF CONNECTION TO EXISTING		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	LIMIT OF DEMOLITION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	KEYNOTE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	SPACE IDENTIFICATION TAG		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	EQUIPMENT IDENTIFICATION TAG		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	STRUCTURAL GRID LINE WITH DESIGNATION		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	SECTION WHERE CUT		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	ENLARGED PLAN WHERE CUT		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	DETAIL TAG		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	DETAIL TITLE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.
	SECTION TITLE		INDICATES AREAS OF THE BUILDING IN WHICH THE SPACING OF HEADS IS BASED ON EXTRA HAZARD GROUP 2 CLASSIFICATION PROVIDING A DENSITY OF 0.40 GPM PER SQUARE FOOT OVER 2500 SQUARE FEET.

GENERAL NOTES

THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.

COORDINATE THE LOCATION OF ALL SPRINKLER PIPING WITH THE WORK OF OTHER TRADES. SPRINKLER PIPING SHALL NOT BE INSTALLED WHERE ITS LOCATION INHIBITS ACCESS TO EQUIPMENT ABOVE THE CEILING, FILTER ACCESS OR INFRINGES UPON CLEARANCES DICTATED BY THE NATIONAL ELECTRIC CODE.

VERIFY DIMENSIONS AND ROUTING IN FIELD BEFORE FABRICATION OF PIPING AND FIXTURES.

REFER TO THE LIFE SAFETY PLAN FOR LOCATIONS OF FIRE AND SMOKE SEPARATION ASSEMBLIES.

REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

BUILDINGS SHALL BE PROTECTED WITH A HYDRAULICALLY CALCULATED WET PIPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13- 2013 EDITION, 2018 NORTH CAROLINA UNIFORM STATEWIDE BUILDING CODE AND STATE CONSTRUCTION OFFICE REQUIREMENTS.

ALL SYSTEM DRAIN PIPING SHALL BE INSTALLED TO TERMINATE TO AN APPROVED LOCATION ON THE EXTERIOR OF BUILDINGS. TERMINATE DRAINS INTO A SPLASH BLOCK.

DESIGN FLOW DATA

THE FOLLOWING DATA SHALL BE USED FOR BID PURPOSES ONLY. CONFIRM DATA PRIOR TO CALCULATING PIPE SIZES.

LOCATION OF TEST: 2075 NC 49

STATIC PRESSURE: 40 psi

RESIDUAL PRESSURE: 27 psi

FLOW AT TIME OF TEST: 426 gpm

DATE OF TEST: 2/16/2023

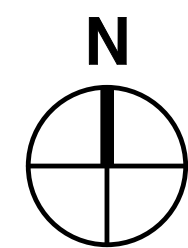
SPRINKLER HEADS

PROVIDE CHROME RECESSED SPRINKLERS IN ALL AREAS OPEN TO VIEW UNLESS OTHERWISE NOTED.

PROVIDE BRASS UPRIGHT SPRINKLERS IN ALL AREAS WITH NO CEILINGS.

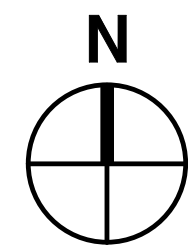
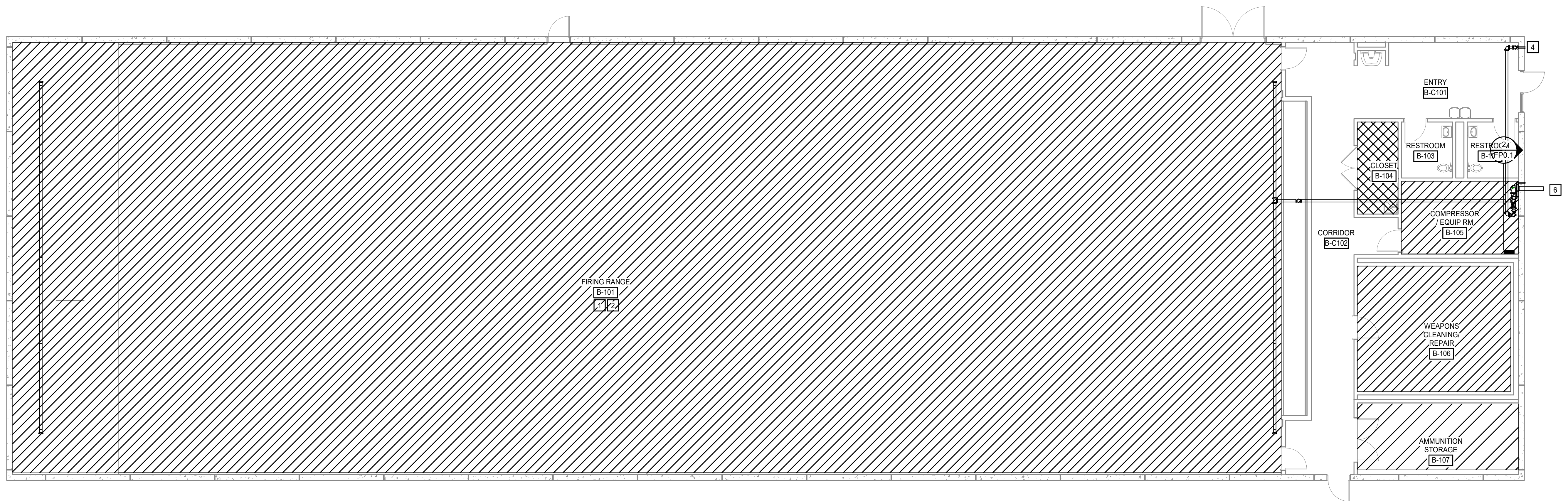
PROVIDE PENDENT TYPE FIRE SPRINKLERS IN CENTER OF ACOUSTICAL TILE CEILINGS.

8/31/2023 10:48:25 AM



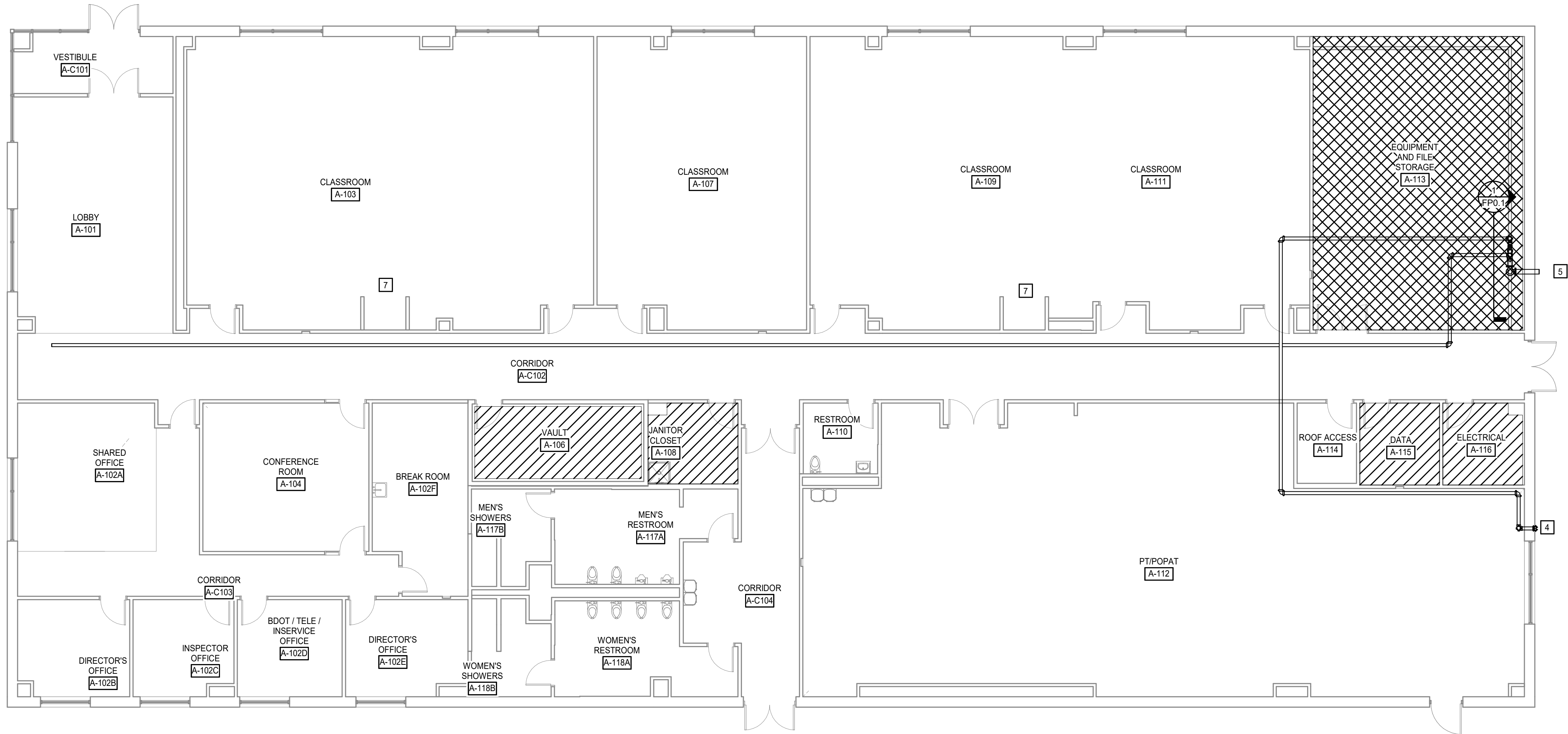
FLOOR PLAN - FIRING RANGE - FIRE PROTECTION

1/8" = 1'-0"



FLOOR PLAN - CLASSROOM ADMIN BUILDING - FIRE PROTECTION

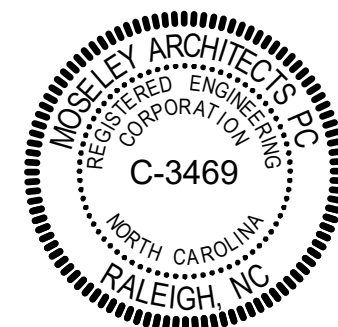
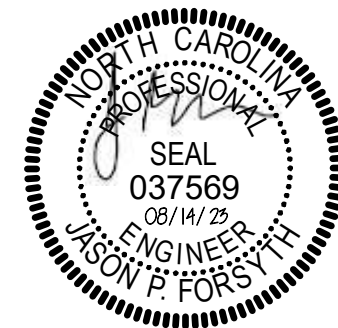
1/8" = 1'-0"



FIRE PROTECTION KEYNOTES

APPLIES TO DRAWINGS FP2.1
REPRESENTED BY [A]

1. INSTALL FIRE SPRINKLERS TO PROTECT ABOVE BAFFLES IN THIS AREA.
2. INSTALL PENDENT TYPE FIRE SPRINKLERS TO ALIGN WITH BOTTOM OF HIGHEST BAFFLE IN CEILING SPACE.
3. LOCATION OF TEST HEADER FOR FORWARD FLOW TESTING OF BACKFLOW PREVENTER PER NFPA 13 REQUIREMENTS.
4. LOCATION OF FIRE DEPARTMENT CONNECTION.
5. LOCATION OF 6" FIRE SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
6. LOCATION OF 6" FIRE SERVICE. REFER TO CIVIL PLANS FOR CONTINUATION.
7. LOCATION OF FOLDABLE PARTITIONS. INSTALL FIRE SPRINKLERS PER NFPA 13 REQUIREMENTS FOR FOLDABLE PARTITIONS.



PROJECT NO:	800646
DATE:	AUGUST 14, 2023

REVISIONS

DATE	DESCRIPTION
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EQUIPMENT ABBREVIATION

AHU	AIR-HANDLING UNIT
AS	AIR SEPARATOR
B	BOILER
BCU	BLOWER COIL UNIT
OCC	CLOSED-CIRCUIT COOLING TOWER
CH	CHILLER
CHWP	CHILLED WATER PUMP
CRAC	COMPUTER ROOM AIR CONDITIONER
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CWP	CONDENSER WATER PUMP
ECH	ELECTRIC CEILING HEATER
ERU	ENERGY RECOVERY UNIT
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EUH	ELECTRIC UNIT HEATER
FCU	FAN COIL UNIT
HP	HEAT PUMP
HWP	HOT WATER PUMP
HX	HEAT EXCHANGER
MAU	MAKEUP AIR UNIT
OAU	OUTDOOR AIR UNIT
P	PUMP
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
RTU	ROOFTOP UNIT
SSI	SPLIT-SYSTEM INDOOR UNIT
SSO	SPLIT-SYSTEM OUTDOOR UNIT
TU	TERMINAL UNIT
UH	UNIT HEATER
WSHP	WATER-SOURCE HEAT PUMP

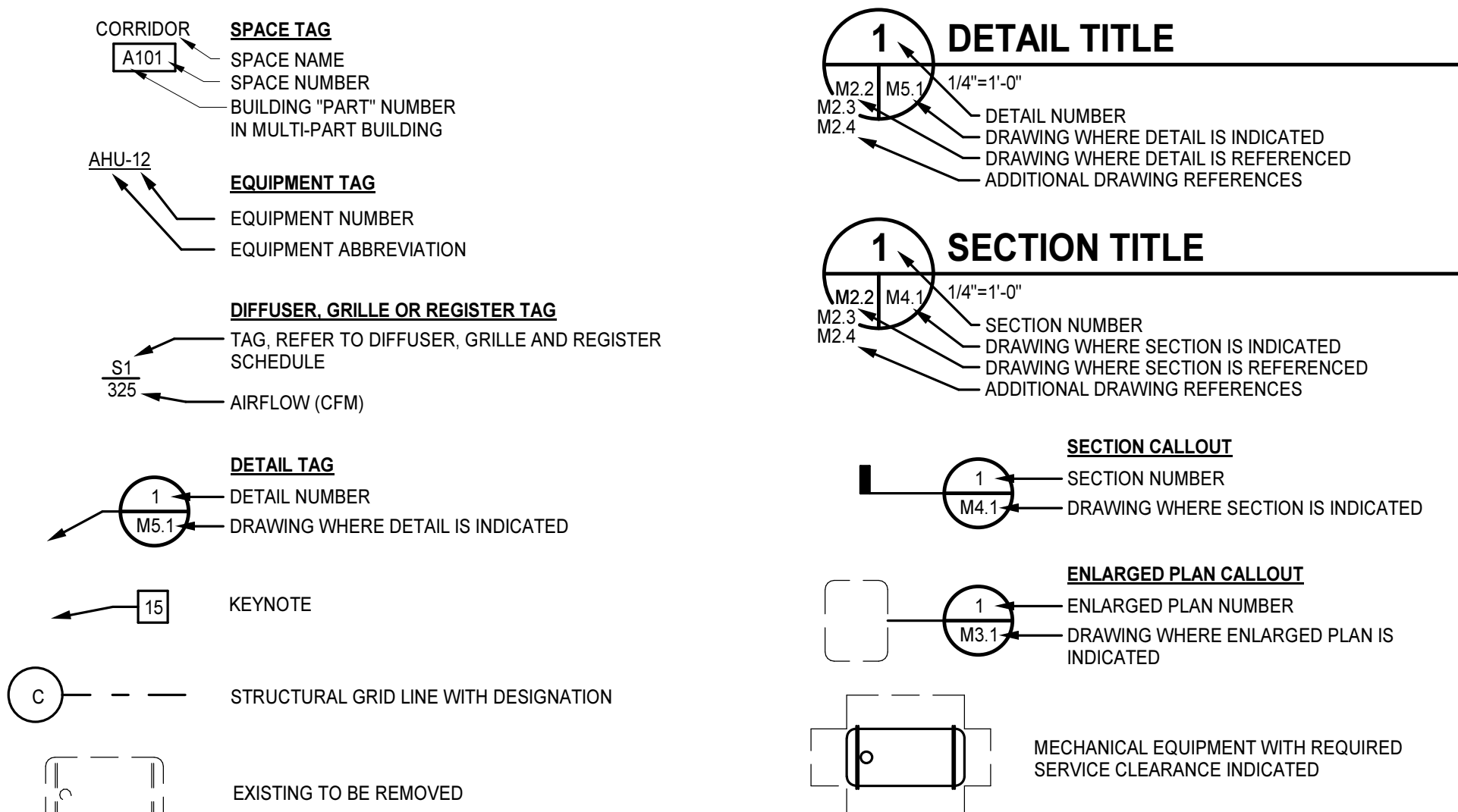
CONTROLS ABBREVIATIONS

AF	AIRFLOW
AI	ANALOG INPUT TO CONTROLLER
ALM	ALARM
AMS	AIRFLOW MEASURING STATION
AO	ANALOG OUTPUT FROM CONTROLLER
ATS	AVERAGING TEMPERATURE SENSOR
BAS	BUILDING AUTOMATION SYSTEM
BI	BINARY INPUT TO CONTROLLER
BO	BINARY OUTPUT FROM CONTROLLER
CO2	CARBON DIOXIDE SENSOR
CSR	CURRENT-SENSING RELAY
DM	DAMPER MOTOR
DP	DIFFERENTIAL PRESSURE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
FM	FLOW METER
FZ	FREEZESTAT
HS	HUMIDITY SENSOR
POS	POSITION
R	RELAY
SD	SMOKE DETECTOR
SPD	SPEED
SS	START/STOP
STS	STATUS
TS	TEMPERATURE SENSOR
VFD	VARIABLE-FREQUENCY DRIVE

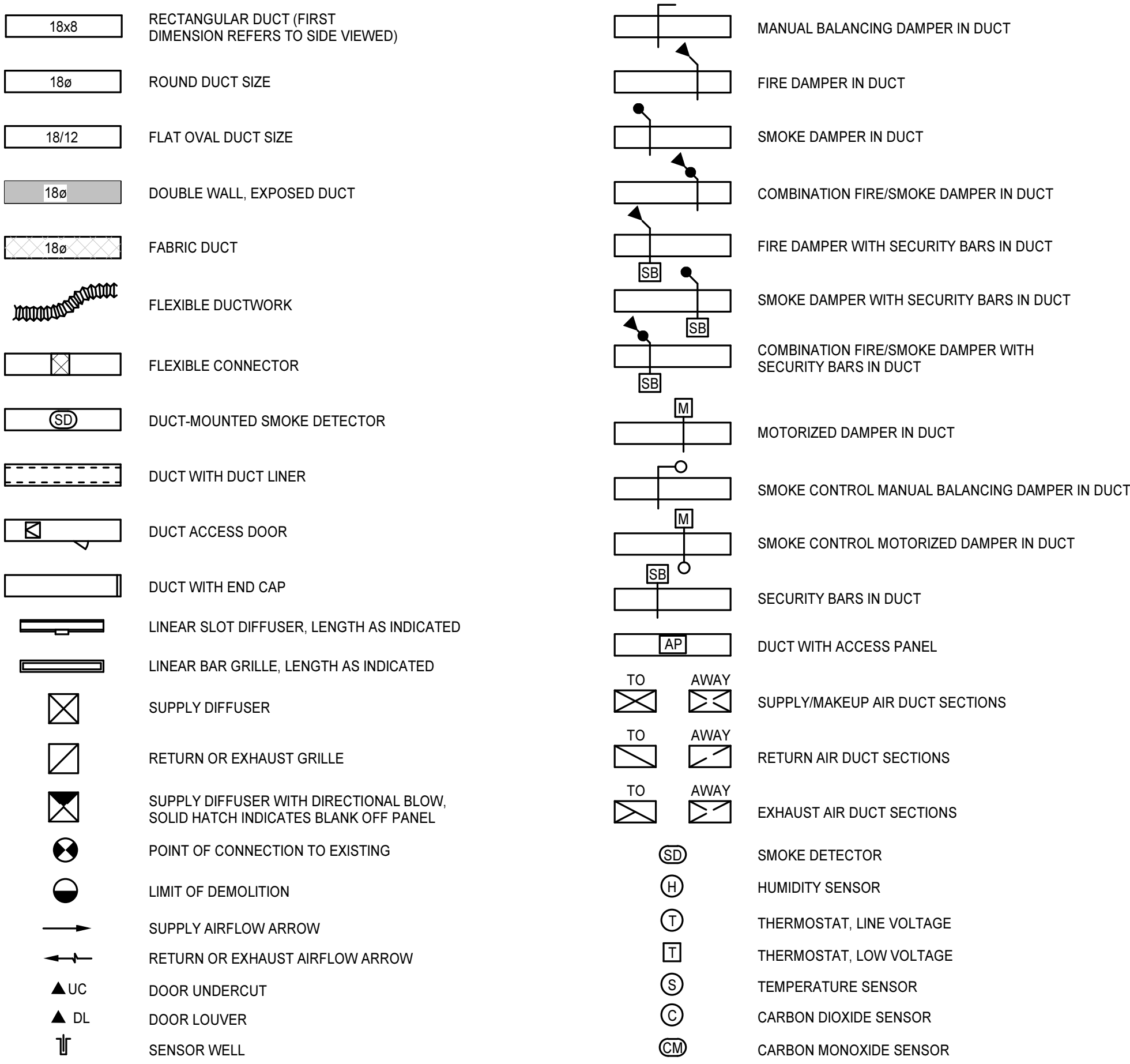
ABBREVIATIONS

A	AMPERE(S)
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APD	AIR PRESSURE DROP
BHP	BRAKE HORSEPOWER
BTUH	BRITISH THERMAL UNITS PER HOUR
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLO	COOLING
COM	COMMON
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
DB	DRY BULB TEMPERATURE
dBA	A-WEIGHTED DECIBELS
DCW	DOMESTIC COLD WATER
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO
EQ	EQUAL
ESP	EXTERNAL STATIC PRESSURE
EWI	ENTERING WATER TEMPERATURE
EX	EXISTING
F	DEGREES FAHRENHEIT
FC	FAIL CLOSED
FD	FIRE DAMPER
FLA	FULL LOAD AMPS
FO	FAIL OPEN
FPM	FEET PER MINUTE
FT	FOOT, FEET
GA	GAUGE
GAL	GALLON(S)
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HPWR	HEAT PUMP WATER RETURN
HPWS	HEAT PUMP WATER SUPPLY
HTG	HEATING
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HX	HEAT EXCHANGER
HZ	HERTZ
IN	INCH
PLV	INTEGRATED PART-LOAD VALUE
KW	KILOWATT(S)
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MBH	ONE THOUSAND BTUH
MCA	MINIMUM CIRCUIT AMPACITY
MFR	MANUFACTURER
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NORMALLY CLOSED (FOR PLANS, DETAILS)
NC	NOISE CRITERIA (FOR SCHEDULES)
NC	NOT IN CONTRACT
NO	NORMALLY OPEN
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PH	PHASE
PSIG	POUNDS PER SQUARE INCH GAUGE
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
TD	TRANSFER DUCT
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTAGE, VOLTS
VD	VOLUME DAMPER
VFD	VARIABLE-FREQUENCY DRIVE
W	WATT(S)
W	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE
WC	WATER COLUMN
WPD	WATER PRESSURE DROP
WWM	WELDED WIRE MESH

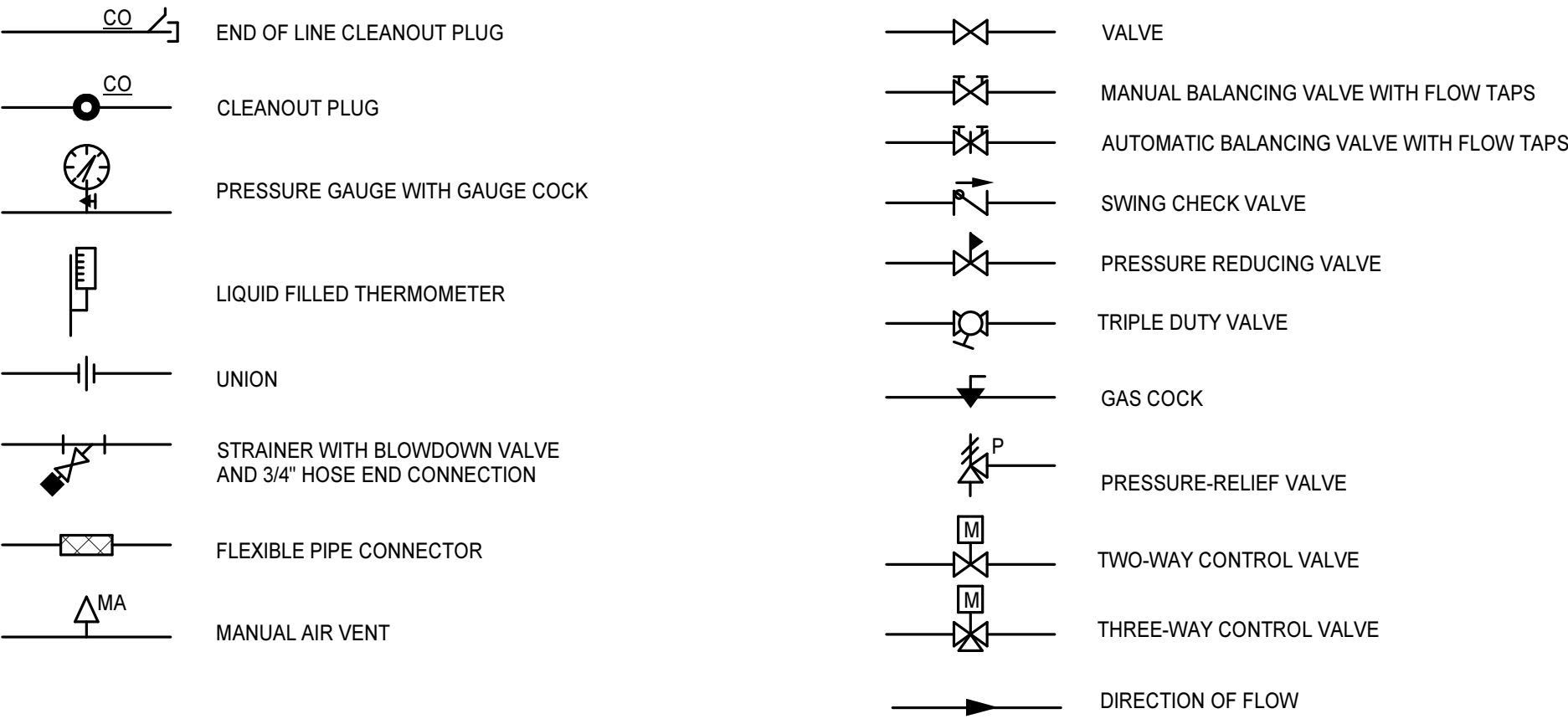
GRAPHIC SYMBOL LEGEND



DUCTWORK LEGEND



PIPING LEGEND



GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. DRAWINGS ARE DIAGRAMMATIC AND INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. DO NOT SCALE DRAWINGS. LOCATIONS OF ALL ITEMS INDICATED ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE. COORDINATE CONTRACT DOCUMENTS PROJECT REQUIREMENTS, WORK OF OTHERS, AND EQUIPMENT AND MATERIALS PURCHASED WITH FIELD DIMENSIONS. MANUFACTURER'S REQUIREMENTS FOR INSTALLATION, OPERATION, AND MAINTENANCE. CONTRACTOR'S INTENDED MEANS AND METHODS OF INSTALLATION, AND CONTRACTOR'S FABRICATED ITEMS TO ENSURE A PROPER FIT AND INSTALLATION.
- C. MAINTAIN MAXIMUM HEADROOM AND SPACE CONDITIONS AT ALL POINTS, WHERE HEADROOM AND SPACE CONDITIONS APPEAR INADEQUATE, NOTIFY THE ARCHITECTS PRIOR TO PROCEEDING WITH INSTALLATION. MAINTAIN A MINIMUM OF 7'-0" CLEARANCE ABOVE FINISHED FLOOR TO UNDERSIDE OF PIPES, DUCTS, CONDUTS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- D. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION. MAKE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK.
- E. INSTALL ALL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- F. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF OPENINGS WITH ALL OTHER TRADES. COORDINATE ALL PIPING AND EQUIPMENT SUPPORTED FROM STRUCTURE WITH GENERAL CONSTRUCTION WORK.
- G. PROVIDE TRAPPED DRAIN PIPING FROM DRAIN PANS OF ALL COOLING COILS, FANS AND OTHER ACTIVE DRAINS EXPOSED TO SYSTEM AIRSTREAM. PROVIDE TRAP AT CONNECTION WITH WATER SEAL DEPTH ONE INCH GREATER THAN UNIT OPERATING PRESSURE. DIRECT DRAINS TO NEAREST FLOOR DRAIN, MOP SINK, OR OTHER LOCATION APPROVED BY THE ARCHITECT.
- H. INSTALL PIPING, DUCTWORK, AND CONDUIT CONCEALED IN AREAS HAVING CEILINGS AND/OR FURRED SPACES UNLESS OTHERWISE INDICATED.
- I. ALL EQUIPMENT, VALVES, DAMPERS, DAMPER AND VALVE OPERATORS SHALL BE PROVIDED WITH ADEQUATE ACCESS FOR SERVICING, MAINTENANCE, AND REPLACEMENT.
- J. SIZE ALL SPLIT-SYSTEM REFRIGERANT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- K. DUCT DIMENSIONS MAY BE MODIFIED ONLY WITH PRIOR APPROVAL FROM ARCHITECT. DUCT DIMENSIONS ARE IN INCHES AND INSIDE CLEAR.
- L. FOR LOCATION OF REGISTERS, GRILLES, AND DIFFUSERS WITHIN CEILING GRID, REFER TO ARCHITECTURAL REFLECTED CEILING PLANS.
- M. ELEVATION INDICATED FOR RECTANGULAR DUCT, GRILLE AND LOUVER OPENINGS IS TO THE TOP OF ROUGH OPENING UNLESS OTHERWISE INDICATED. ELEVATION INDICATED FOR ROUND DUCTWORK AND PIPING IS TO CENTERLINE.
- N. BRANCH PIPING RUNOUTS TO TERMINAL UNITS SHALL BE 3/4" DIAMETER UNLESS INDICATED OTHERWISE.
- O. REFER TO STRUCTURAL DRAWINGS FOR DETAILS AND MAXIMUM SPACING REQUIREMENTS REGARDING HANGER ATTACHMENTS TO STEEL BAR JOISTS.

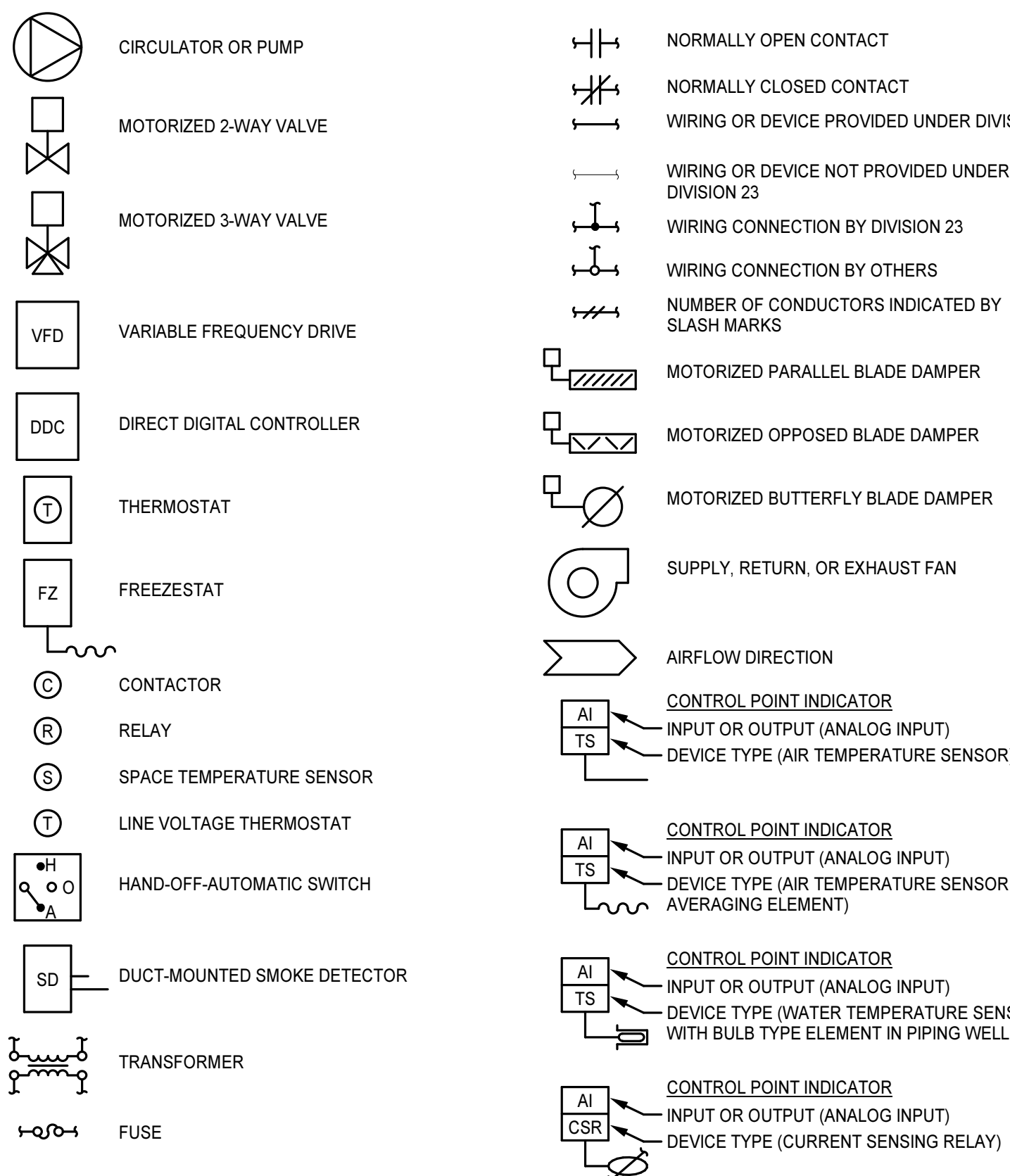
LIFE SAFETY SYMBOL LEGEND

APPLIES TO LS SERIES OF DRAWINGS ONLY

DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	RATED BEARING OR NON-BEARING WALL
4 HR FIRE	▲▲▲▲	■ ■ ■ ■		
3 HR FIRE	▶▶▶▶	◆ ◆ ◆ ◆		● ● ● ●
2 HR FIRE	✖ ✖ ✖ ✖	■ ■ ■ ■		▤ ▤ ▤ ▤
1 HR FIRE		▶▶▶▶	★ ★ ★ ★	▤ ▤ ▤ ▤
1/2 HR FIRE			◆ ◆ ◆ ◆	

- NOTES:
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0 A1 AND A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.

CONTROL SYMBOL LEGEND



[illegible]

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN W/C)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA			WEIGHT (LBS)	NOTES
												(V)	(PH)	(HZ)		
F-1	GREENHECK	G-130-VG	GENERAL EXHAUST - CLASSROOM BUILDING	ROOF MTD. CENTRIFUGAL	1,310	0.50	1192	DIRECT	9.5	BAS SCHEDULE	1/2	120	1	60	49	1
F-2	GREENHECK	G-80-VG	A-112 ELECTRICAL	ROOF MTD. CENTRIFUGAL	500	0.30	1440	DIRECT	6.6	BAS SENSOR	1/10	120	1	60	28	1
NOTES: 1. PROVIDE MOTORIZED DAMPER AND INTERLOCK WITH FAN OPERATION.																

FAN POWERED TERMINAL UNIT SCHEDULE																					
TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE			FAN				COIL				ELECTRICAL DATA							WEIGHT (LBS)
			INLET DIAMETER (IN)	MAXIMUM AIR FLOW (CFM)	MINIMUM AIR FLOW (CFM)	APD AT MAXIMUM AIR FLOW (IN WC)	MOTOR (HP)	AIRFLOW (CFM)	ESP (IN WC)	DESIGN AIRFLOW (CFM)	CAPACITY (KW)	EAT (F)	LAT (F)	STAGES (NO)	FLA (A)	MCA (A)	MOPP (A)	SERVICE			
																		AVI (PH)	HZ		
TU-01	PRICE	FDC 3010	6	1,010	280	13	0.19	13	1010	0.25	8.0	61.9	90.1	9.6	15.0	20	480	3	60	127	
TU-02	PRICE	FDC 1006	6	410	125	0.27	13	410	0.25	410	3.0	65.4	88.5	1	10.8	16.5	20	277	1	60	106
TU-03	PRICE	FDC 1006	6	410	125	0.27	13	410	0.25	410	3.0	65.4	88.5	1	10.8	16.5	20	277	1	60	106
TU-04	PRICE	FDC 1006	6	370	125	0.22	13	370	0.25	370	3.0	64.9	90.1	1	10.8	16.5	20	277	1	60	106
TU-05	PRICE	FDC 1006	10	1,010	400	0.19	13	1010	0.25	1,010	6.0	64.1	88.1	1	9.6	15.0	15	480	3	60	130
TU-06	PRICE	FDC 3010	10	1,050	475	0.10	13	1050	0.25	1,050	6.0	65.2	90.3	1	10.8	18.3	20	480	3	60	130
TU-08B	PRICE	FDC 3010	10	1,050	475	0.10	13	1050	0.25	1,050	6.0	63.2	90.3	1	10.8	18.3	20	480	3	60	130
TU-09	PRICE	FDC 2008	8	780	260	0.02	13	780	0.25	780	6.0	65.0	89.3	1	7.2	12.0	15	480	3	60	127
TU-10	PRICE	FDC 2010	10	940	510	0.08	13	940	0.25	940	8.0	61.9	88.8	1	9.6	15.0	20	480	3	60	127
TU-11	PRICE	FDC 2010	10	940	510	0.08	13	940	0.25	940	8.0	61.9	88.8	1	9.6	15.0	20	480	3	60	127
TU-12	PRICE	FDC 1010	10	940	510	0.08	13	940	0.25	940	8.0	61.9	88.8	1	9.6	15.0	20	480	3	60	127
TU-13	PRICE	FDC 2010	10	940	510	0.08	13	940	0.25	940	8.0	61.8	88.8	1	9.6	15.0	20	480	3	60	127
TU-14	PRICE	FDC 3012	12	1,260	690	0.06	13	1,260	0.25	1,260	11.0	61.8	89.4	1	13.2	21.3	25	480	3	60	130

TERMINAL UNIT SCHEDULE																		
TAG	MANUFACTURER	MODEL NUMBER	AIR VALVE			COIL					ELECTRICAL DATA						WEIGHT (LBS)	
			INLET DIAMETER (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	APD AT MAX AIR FLOW (IN-WC)	DESIGN AIRFLOW (CFM)	CAPACITY (KW)	EAT (°F)	LAT (°F)	STAGES	FLA (A)	MCA (A)	MOPP (A)	(V)	(PH)		(HZ)
TU1-05	PRICE	SDV	6	290	140	0.08	140	1.5	55	86.9	1	5.4	6.8	15	277	1	60	38
TU1-06	PRICE	SDV	5	190	85	0.01	85	1.0	55	92.2	1	3.6	4.5	15	277	1	60	38

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE														
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SUPPLY AIR (CFM)	TOTAL CAPACITY (BTU/H)	SENSIBLE CAPACITY (BTU/H)	INDOOR EAT (°F)		ELECTRICAL DATA SERVICE				WEIGHT (LBS)	NOTES
							DB	WB	MCA (A)	V	PH	HZ		
DSS-1A	DAIKIN	FX25A12L	A-111 DATA	400	12,000	10,560	80	67	1.0	208	1	60	28	1,2,3

NOTES:

- PROVIDE BLUE DIAMOND MAXIBLUE X87-721 CONDENSATE PUMP POWERED FROM INDOOR UNIT AND INTEGRAL DRAIN PAN LEVEL SENSOR TO DISABLE UNIT ON DETECTION OF MOISTURE.
- PROVIDE HARD-WIRED, WALL-MOUNTED, PROGRAMMABLE THERMOSTAT.
- INDOOR UNIT IS POWERED FROM ASSOCIATED OUTDOOR UNIT.

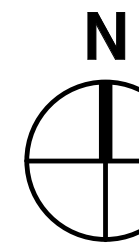
DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE											
TAG	MANUFACTURER	MODEL NUMBER	LOCATION	AMBIENT AIR TEMPERATURE (°F)	ELECTRICAL DATA						WEIGHT (LBS)
					MCA	MCCP	SERVICE			REFRIGERANT	
					(A)	(A)	V	PH	HZ		
DSS-1B	mitsubishi	PAY-A12NKA7	ROOF	95.0	11	30	208	1	60	R-410A	92

GRAVITY VENT SCHEDULE									
TAG	MANUFACTURER	MODEL NUMBER	SERVING	FUNCTION	AIRFLOW (CFM)	PRESSURE DROP (IN WC)	ROOF OPENING SIZE (IN X IN)	WEIGHT (LBS)	NOTES
IV-1	GREENHECK	GRS10	A-112 ELECTRICAL	INTAKE	250	0.032	13x13	8	1

NOTES:
 1. PROVIDE MOTORIZED BACKDRAFT DAMPER AND INTERLOCK WITH EXHAUST FAN F-2 OPERATION.

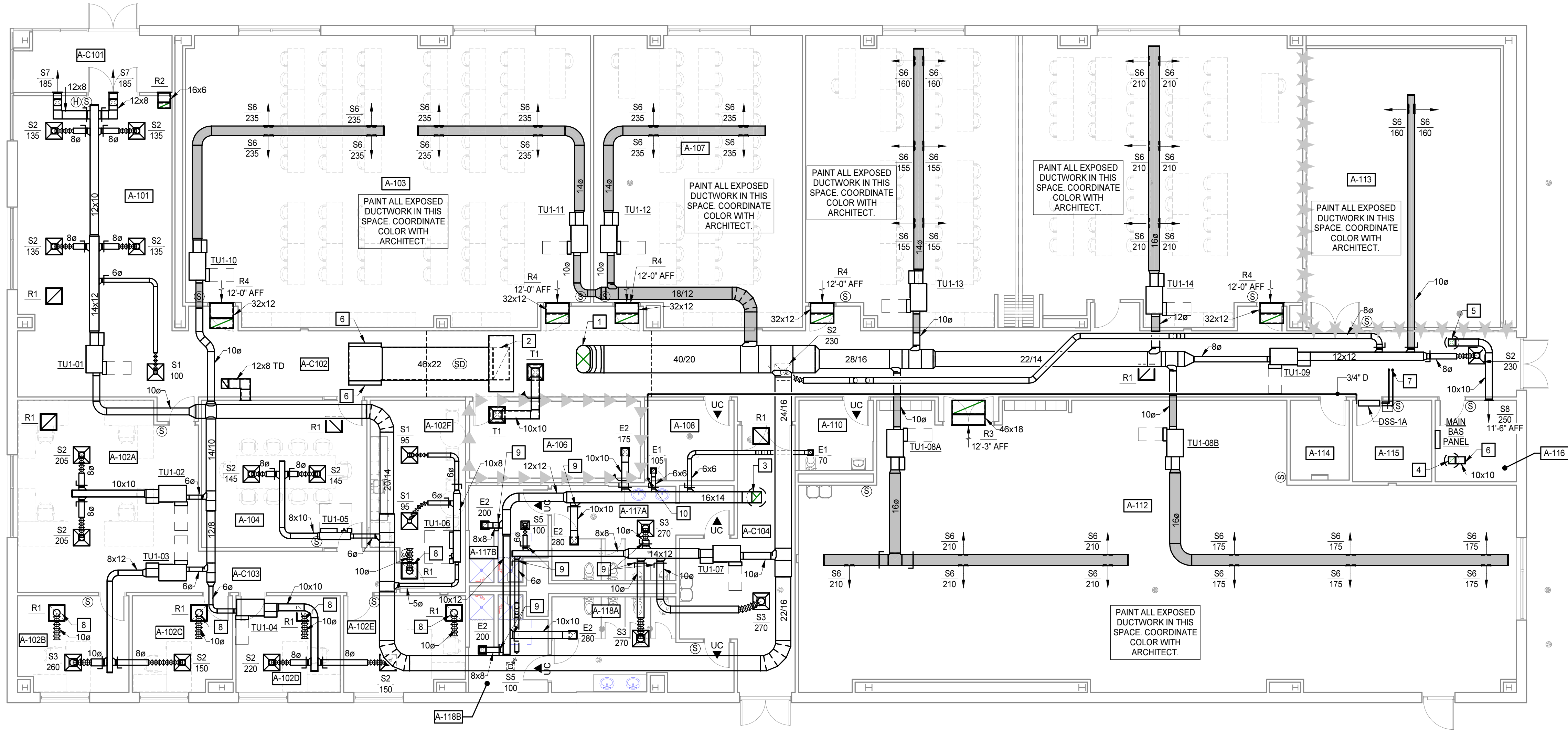
TAG	MANUFACTURER	MODEL NUMBER	MOUNTING STYLE	NECK SIZE	FACE SIZE	MAX NC LEVEL	NOTES
S1	PRICE	ASCO	LAY-IN	6ø	24x24	30	-
S2	PRICE	ASCO	LAY-IN	8ø	24x24	30	-
S3	PRICE	ASCO	LAY-IN	10	24x24	20	-
S4	PRICE	ASCO	LAY-IN	12	24x24	20	-
S5	PRICE	ASCO	SURFACE	6	12x12	20	-
S6	PRICE	SIDG	DUCT MOUNTED	12x6	14x8	20	1,2
S7	PRICE	620-F-L	SURFACE	12x8	14x10	20	1
S8	PRICE	620-F-L	SURFACE	10x10	12x12	20	-
R1	PRICE	635-TB-L	LAY-IN	22x22	24x24	20	-
R2	PRICE	635-TB-L	SURFACE	18x8	20x10	20	1
R3	PRICE	635-TB-L	SURFACE	48x20	50x22	20	1
R4	PRICE	635-F-L	SURFACE	36x14	38x16	20	1
E1	PRICE	635-F-L	SURFACE	8x8	8x8	20	-
E2	PRICE	635-F-L	SURFACE	10x10	12x12	20	-
S1	PRICE	635-F-L	SURFACE	16x4	18x8	20	-
E4	PRICE	635-TB-L	LAY-IN	22x22	24x24	20	-
E5	PRICE	635-F-L	SURFACE	12x12	14x14	20	-
T1	PRICE	635-TB-L	LAY-IN	22x22	24x24	20	-

NOTES:
 1. PROVIDE FINISH SUITABLE FOR FIELD PAINTING AND PAINT TO MATCH MOUNTING SURFACE.
 2. PROVIDE AIR SCOOP.



FIRST FLOOR PLAN - CLASSROOM BUILDING

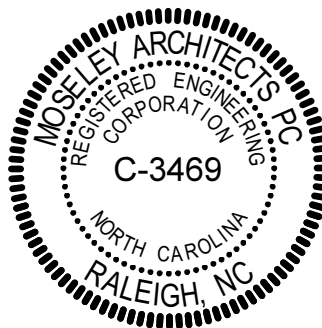
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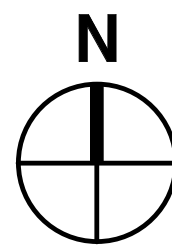
KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY [A]

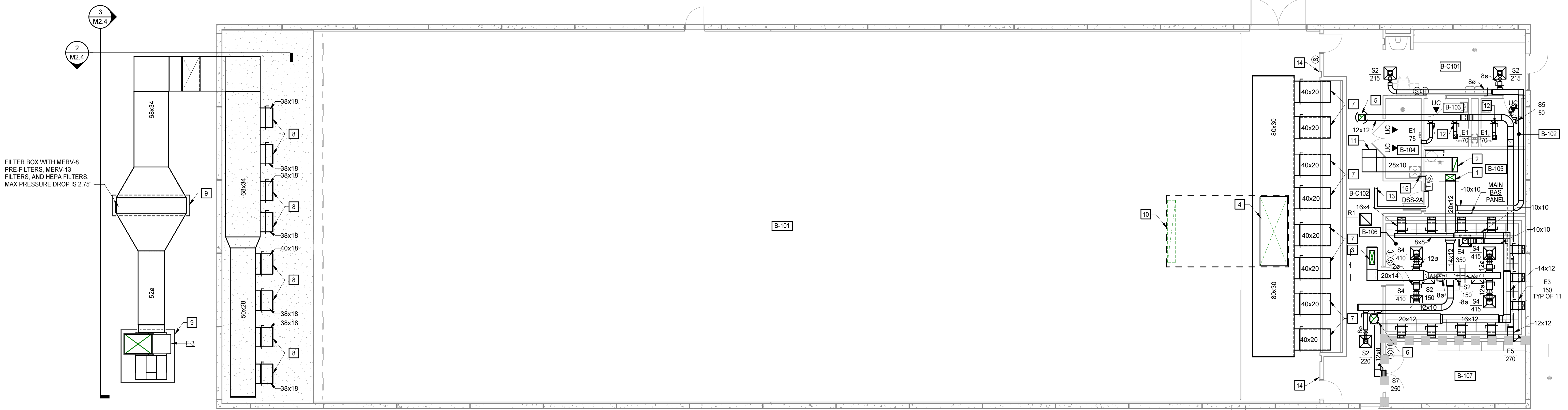
- 20x40 UP TO RTU-1 ON ROOF.
- 22x46 UP TO RTU-1 ON ROOF. PROVIDE 1\"/>



PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION



FIRST FLOOR PLAN - INDOOR FIRING RANGE BUILDING



ROOFTOP HEAT PUMP UNIT SCHEDULE - ALTERNATE NO.1

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SUPPLY FAN				OUTSIDE AIR DESIGN AIRFLOW (CFM)	COOLING COIL				HOT-GAS REHEAT COIL			HEAT PUMP HEATING COIL			ELECTRIC HEATER (KW)	ELECTRICAL DATA				WEIGHT (LBS)	NOTES						
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	WHEEL			FAN SPEED (RPM)	MOTOR SIZE (HP)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	EAT		LAT	TOTAL CAPACITY (BTUH)	EAT (°F)	LAT (°F)		CAPACITY (BTUH)	EAT (°F)	LAT (°F)	FLA (A)			MCA (A)	MOP (A)	SERVICE			
						DIAMETER (IN)	TYPE						(°F DB)	(°F WB)														(°F DB)	(°F WB)	(V)	(PH)
RTU-3	DAIKIN APPLIED	DPS-306	ROOF	1,250	0.75	14.0	SVWS AF	1592	4	900	78,925	31,115	87.9	71.3	54.5	22,287	54.5	70.0	60,589	70.0	199.6	12	28.6	31.9	35	480	3	60	1,500	1.2	
RTU-4	DAIKIN APPLIED	DPS-006	ROOF	1,650	0.75	14.0	SVWS AF	1697	4	1650	84,644	62,459	94.4	74.2	59.8	59.7	18,292	59.8	70.0	66,190	45.0	87.0	30	48.0	59.0	60	480	3	60	1,500	1.2

NOTES

1. PROVIDE SINGLE POINT POWER CONNECTION WITH DISCONNECT SWITCH

2. PROVIDE MODULATING HOT GAS REHEAT.

NOTES:
1. PROVIDE SINGLE POINT POWER CONNECTION WITH DISCONNECT SWITCH
2. PROVIDE MODULATING HOT GAS REHEAT.

ROOFTOP UNIT SCHEDULE - ALTERNATE NO.1

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SUPPLY FANS							ELECTRIC HEATING COIL			ELECTRICAL DATA			WEIGHT (LBS)	
				DESIGN AIRFLOW (CFM)	ESP (IN WC)	WHEEL		FAN SPEED (RPM)	MOTOR SIZE PER FAN (HP)	NO. OF FANS	OUTSIDE AIR DESIGN AIRFLOW (CFM)	CAPACITY (KW)	EAT (°F)	LAT (°F)	(V)	(PH)		(HZ)
						DIAMETER (IN)	TYPE											
RTU-2	DAIKIN APPLIED	OAH100	ROOF	48,000	2.00	36.5	PF	1299	40	2	48,000	554.0	18.5	55.0	480	3	60	12132

FAN SCHEDULE - ALTERNATE NO.1

TAG	MANUFACTURER	MODEL NUMBER	SERVING	TYPE	AIRFLOW (CFM)	ESP (IN WC)	FAN WHEEL (RPM)	DRIVE TYPE	SONES	CONTROL METHOD	MOTOR (HP)	ELECTRICAL DATA			WEIGHT (LBS)	NOTES
												(V)	(PH)	(HZ)		
F-3	GREENHECK	USF-49	RANGE BUILDING	CENTRIFUGAL UTILITY	50,000	3.50	923	BELT	82	WALL SWITCH	60	480	3	60	2864	2,3,4,5
F-4	GREENHECK	G-100-VG	GENERAL EXHAUST - RANGE BUILDING	ROOF MTD. CENTRIFUGAL	835	0.50	1338	BELT	7.2	BAS SCHEDULE	1/4	120	1	60	43	1
F-5	GREENHECK	USF-16	WEAPONS CLEANING	CENTRIFUGAL UTILITY	1,650	0.50	854	BELT	16.8	WALL SWITCH	1/3	120	1	60	231	2,3,4,5

NOTES:
1. PROVIDE MOTORIZED BACKDRAFT DAMPER AND INTERLOCK WITH FAN OPERATION.
2. PROVIDE UPBLAST FAN CONFIGURATION.
3. PROVIDE VIBRATION ISOLATION BASE.
4. PROVIDE SPARK RESISTANT CONSTRUCTION.
5. PROVIDE GRAVITY BACKDRAFT DAMPER.

DUCTLESS SPLIT SYSTEM INDOOR UNIT SCHEDULE - ALTERNATE NO.1

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	SUPPLY AIR (CFM)	TOTAL CAPACITY (BTUH)	SENSIBLE CAPACITY (BTUH)	INDOOR EAT (°F)		HEATING CAPACITY (BTUH)	HEATING EAT (°F)	ELECTRICAL DATA			WEIGHT (LBS)	NOTES	
							DB	WB			MCA (A)	V (PH)	SERVICE (HZ)			
DSS-2A	DAIKIN APPLIED	PKA-A12LA	B-105 COMPRESSOR/EQUIPMENT ROOM	400	12,000	10,560	80	67	14,000	60.0	1.0	208	1	60	28	1,2,3

NOTES:
1. PROVIDE BLUE DIAMOND MAXIBLUE X87-721 CONDENSATE PUMP POWERED FROM INDOOR UNIT AND INTEGRAL DRAIN PAN LEVEL SENSOR TO DISABLE UNIT ON DETECTION OF MOISTURE.
2. PROVIDE HARD-WIRED, WALL-MOUNTED, PROGRAMMABLE THERMOSTAT.
3. INDOOR UNIT IS POWERED FROM ASSOCIATED OUTDOOR UNIT.

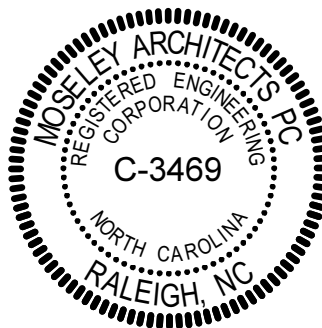
DUCTLESS SPLIT SYSTEM OUTDOOR UNIT SCHEDULE - ALTERNATE NO.1

TAG	MANUFACTURER	MODEL NUMBER	LOCATION	AMBIENT AIR TEMPERATURE (°F)	ELECTRICAL DATA			WEIGHT (LBS)
					MCA (A)	MOP (A)	SERVICE (V) (PH) (HZ)	
DSS-2B	DAIKIN APPLIED	PLZ-A12NKA7	ROOF	55.0	11	30	208 1 60	92

KEYNOTES

APPLIES TO THIS DRAWING
REPRESENTED BY

- 20x12 UP TO RTU-3 ON ROOF.
- 28x10 UP TO RTU-3 ON ROOF.
- 10x28 UP TO RTU-4 ON ROOF.
- 54x135 UP TO RTU-2 ON ROOF. PROVIDE 1" DUCT LINER FOR ALL RTU-1 SUPPLY DUCTWORK
- 12x12 UP TO F-4 ON ROOF.
- 18ø UP TO F-5 ON ROOF.
- OPEN END DUCT. SEE DETAIL ON DRAWING M5.1. BALANCE TO 6,000 CFM.
- OPEN END DUCT. SEE DETAIL ON DRAWING M5.1. BALANCE TO 6,250 CFM.
- EXTERIOR EQUIPMENT PAD. SEE STRUCTURAL DRAWINGS.
- 16x122 UP TO RTU-2 ON ROOF. OPEN END DUCT. SEE DETAIL ON DRAWING M5.1.
- OPEN END DUCT. SEE DETAIL ON DRAWING M5.1.
- PROVIDE REMOTE DAMPER OPERATOR WITH ROUND CEILING CUP.
- REFRIGERANT LIQUID AND SUCTION UP TO DSS-2B ON ROOF. SIZE AND ROUTE PIPING PER MANUFACTURER'S INSTRUCTIONS.
- RANGE UNIT ENABLE/DISABLE SWITCH. SEE SECTION 230900 AND 230993 FOR DETAILS.
- 3/4" D DOWN TO MOP SINK. TERMINATE 6" ABOVE MOP SINK WITH 45 DEGREE ELBOW.

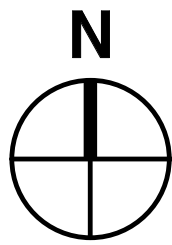


PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

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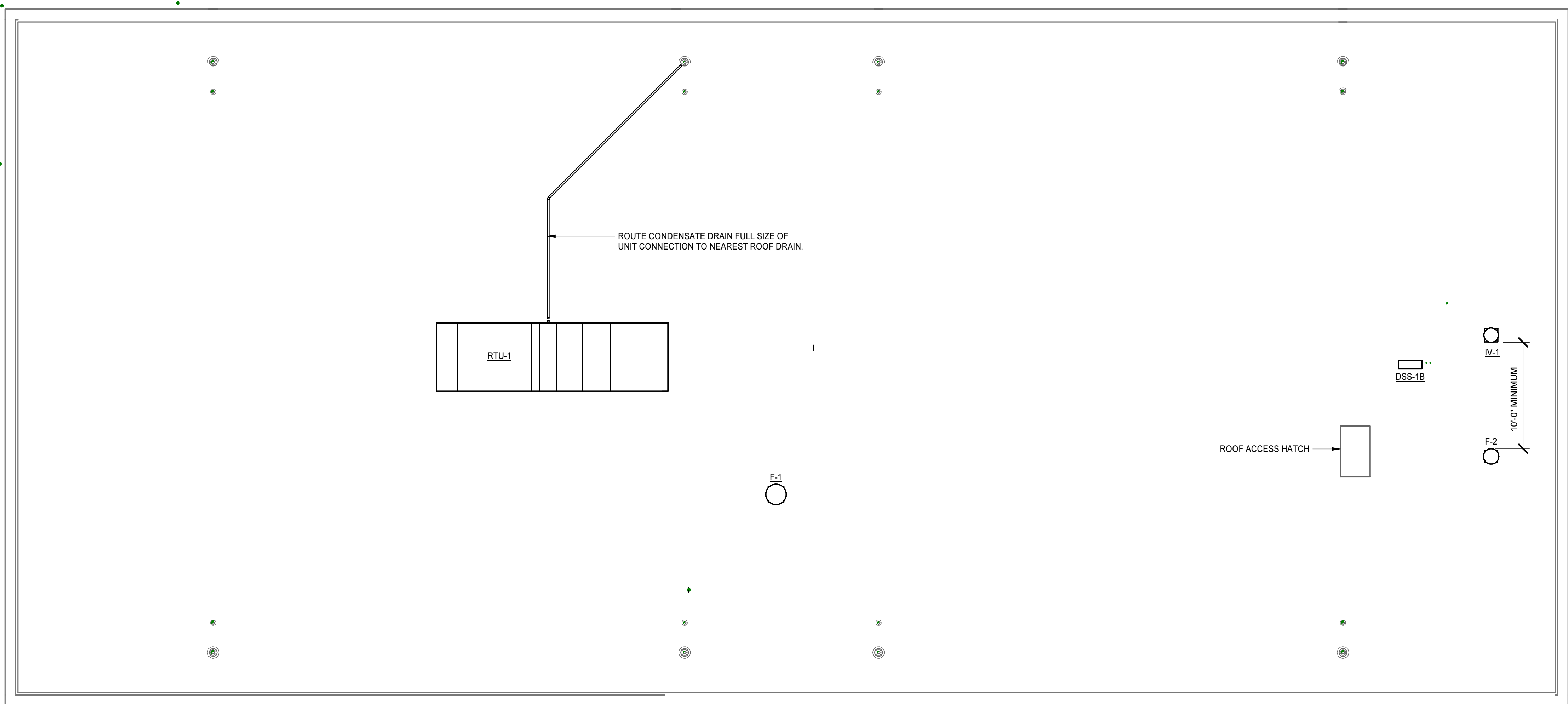
A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10



ROOF PLAN - CLASSROOM ADMINISTRATION BUILDING

1/8" = 1'-0"

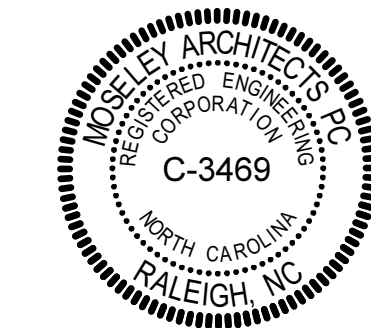


PROJECT NO.	600646
DATE	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

ROOF PLAN - CLASSROOM
ADMINISTRATION BUILDING

PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217



MOSELEYARCHITECTS

911 N. WEST STREET, SUITE 205 RALEIGH, NORTH CAROLINA 27603
PHONE (919) 840-0091
MOSELEYARCHITECTS.COM

M2.3

8/31/2023 2:15:22 PM

J
I
H
G
F
E
D
C
B
A

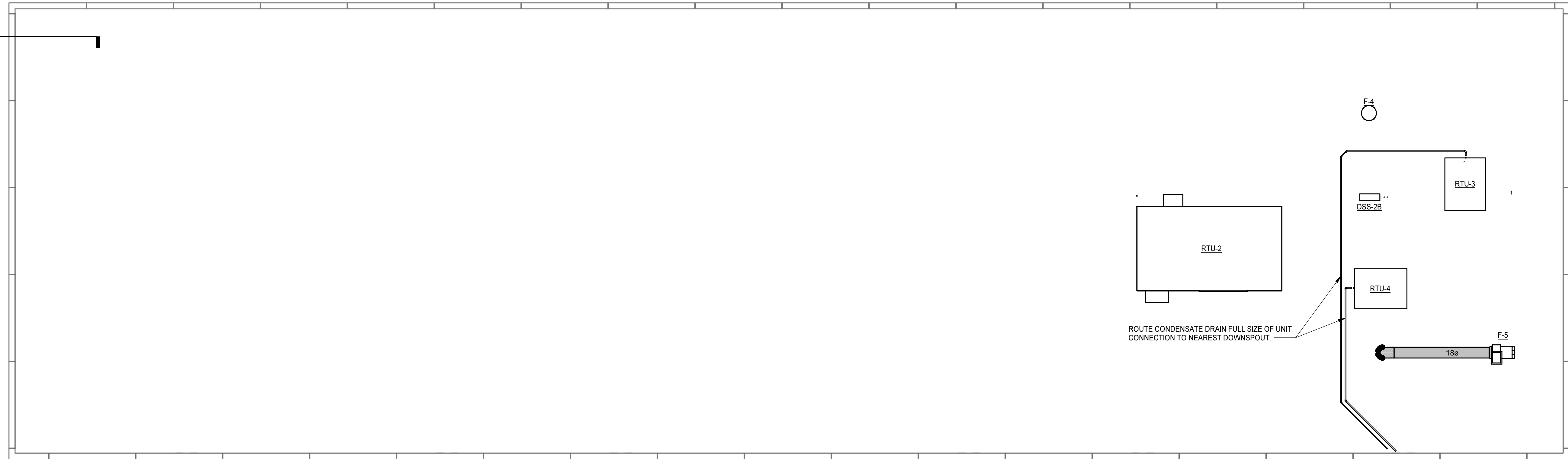
2
M2.4

3
M2.4

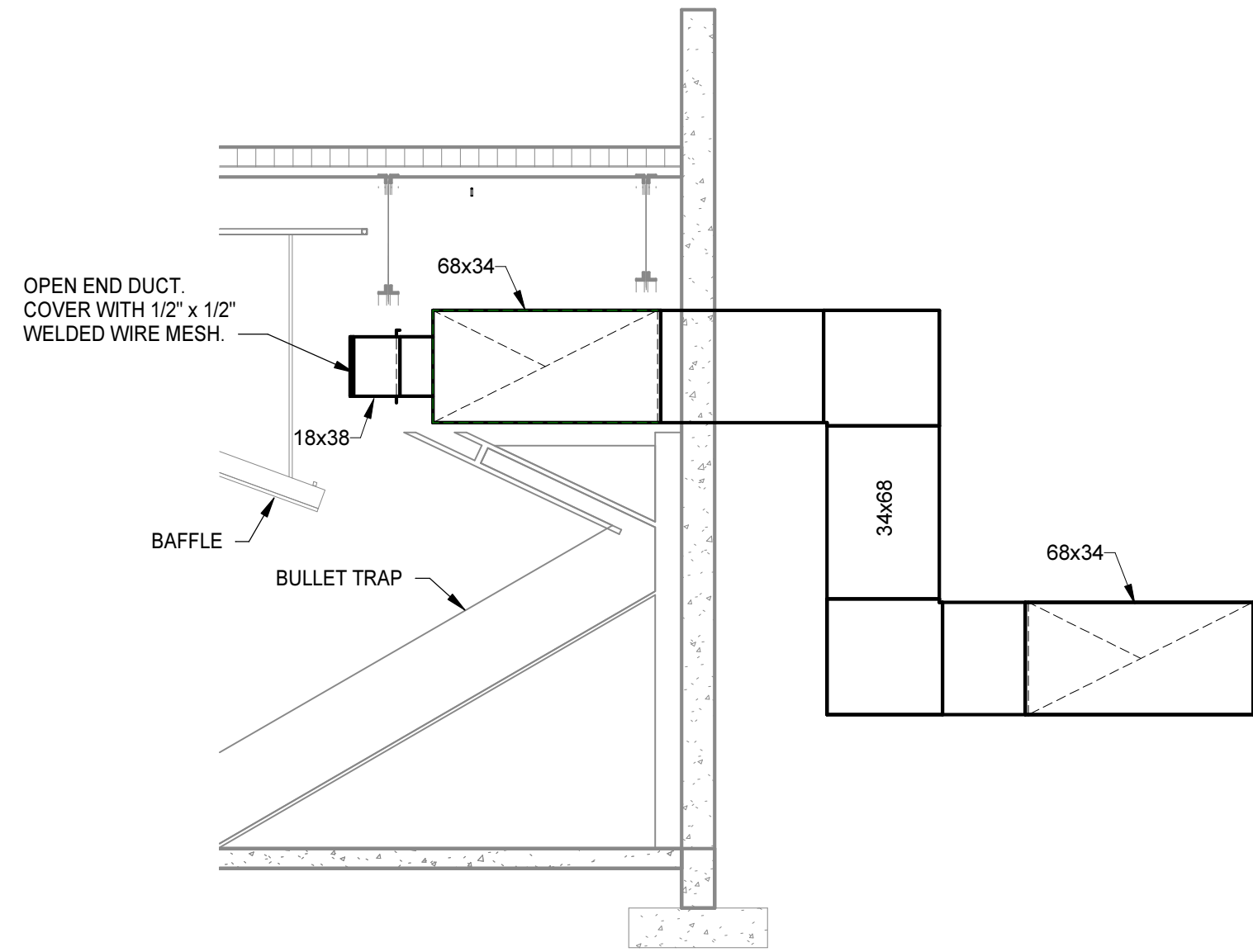


ROOF PLAN - RANGE BUILDING

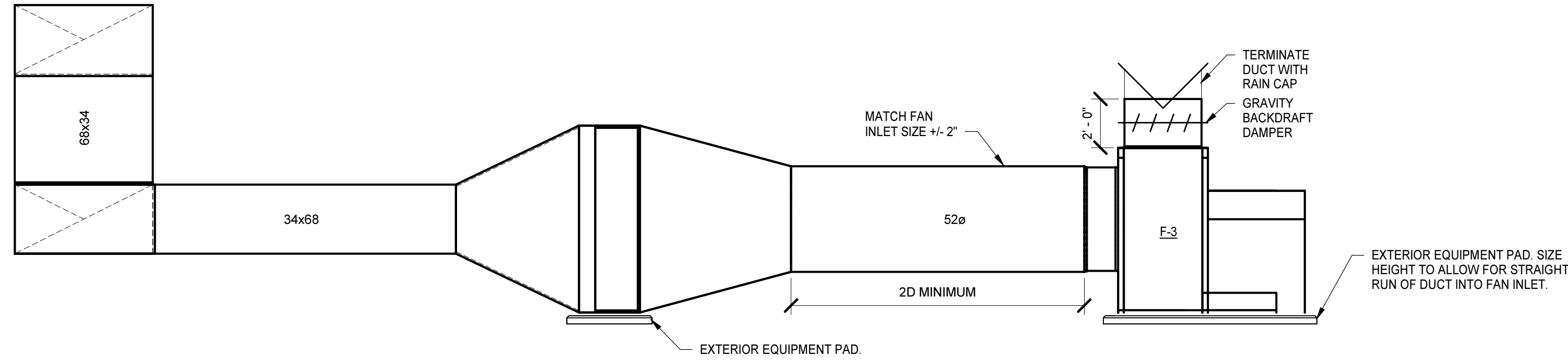
1/8" = 1'-0"



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



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

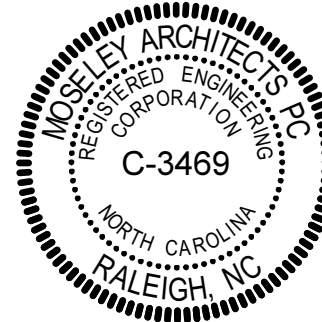


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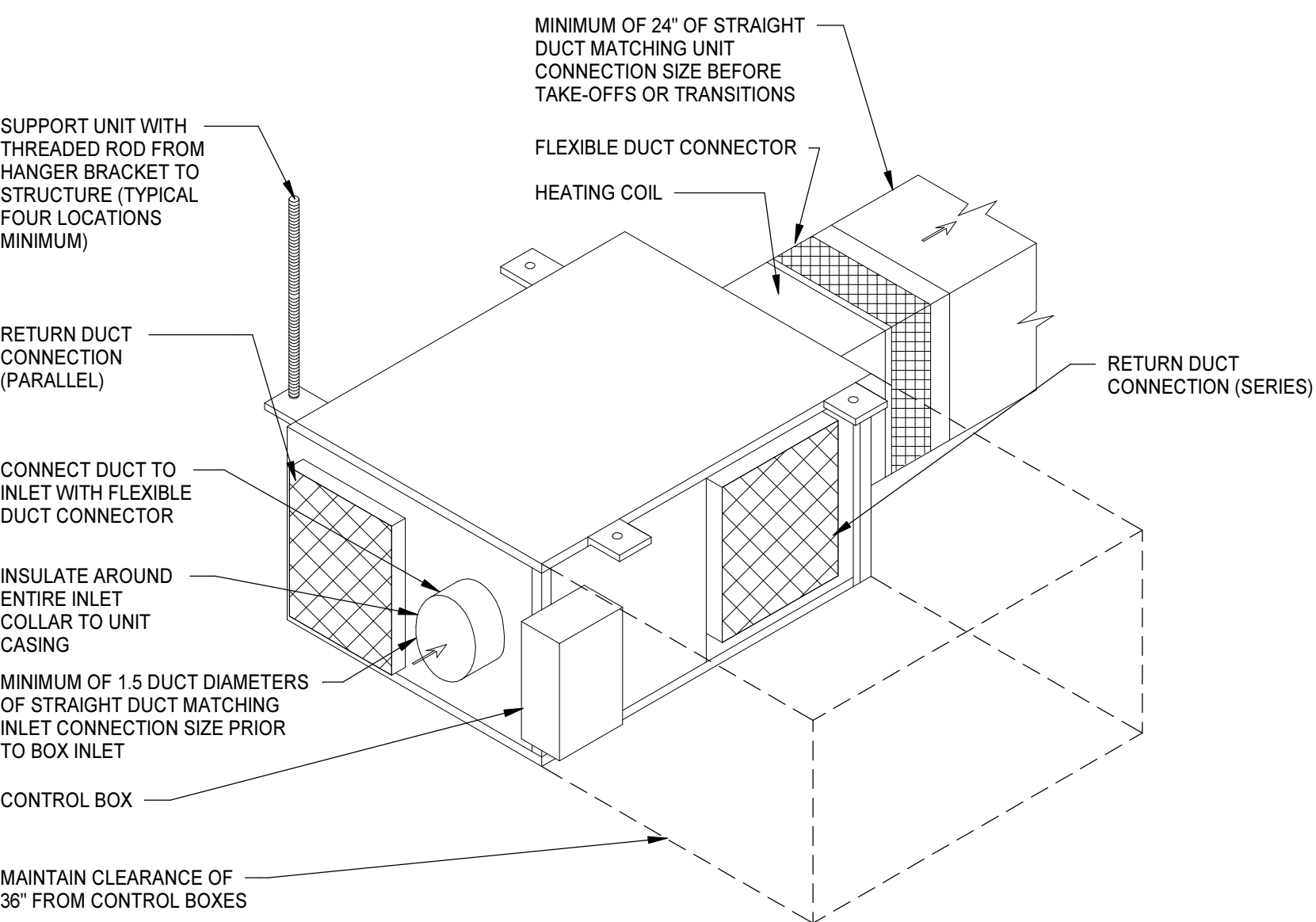
ALTERNATE NO. 1 - ROOF
PLAN - RANGE BUILDING



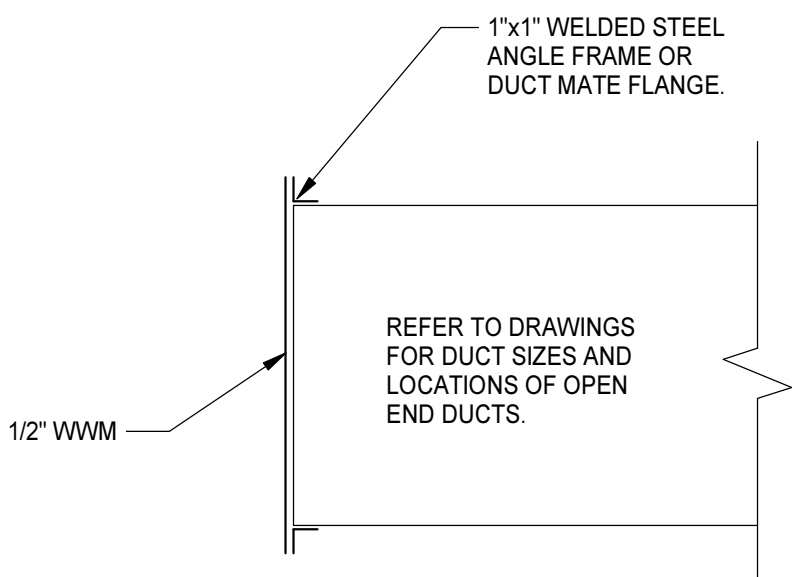
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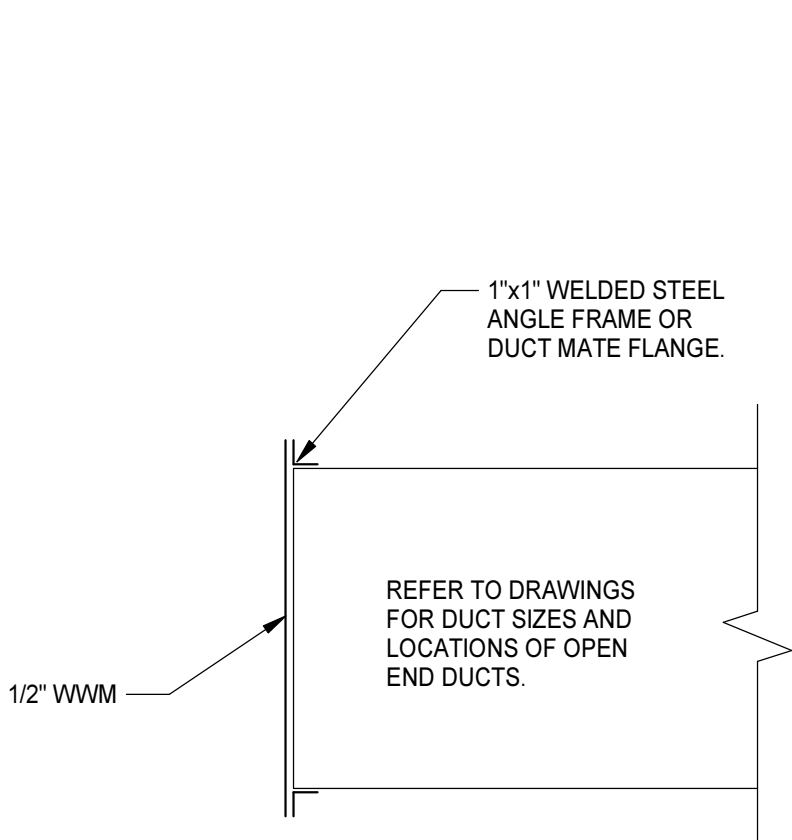
M2.4



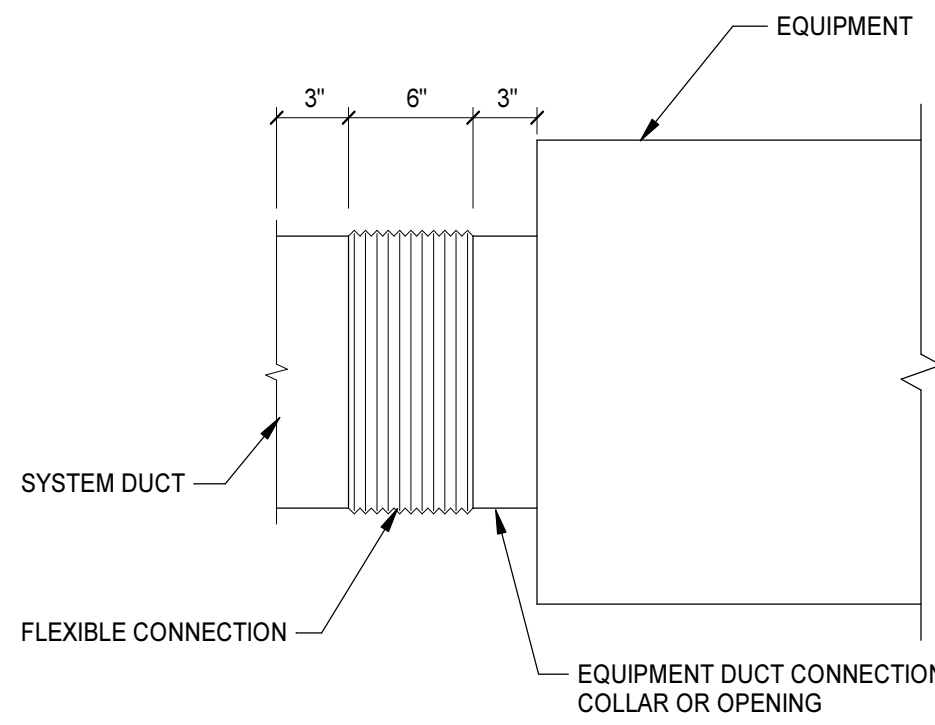
FAN-POWERED VAV TERMINAL UNIT DETAIL



DUCT INSULATION JOINT DETAIL

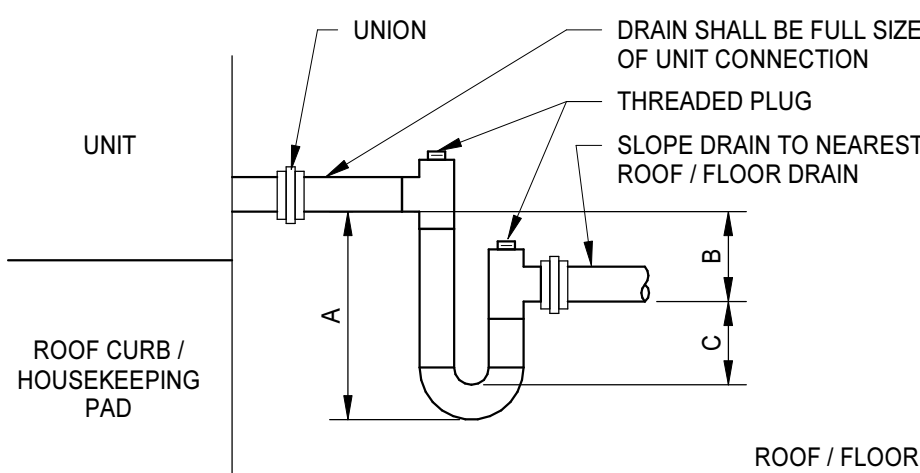


OPEN END DUCT DETAIL



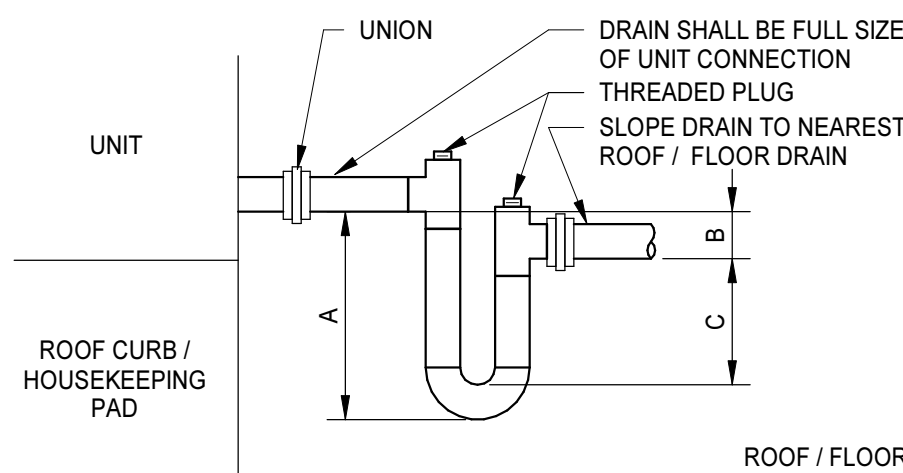
NOTE: THIS DETAIL APPLIES TO ALL DUCT CONNECTIONS TO AIR HANDLING UNITS AND FANS UNLESS OTHERWISE INDICATED

EQUIPMENT DUCT CONNECTION DETAIL

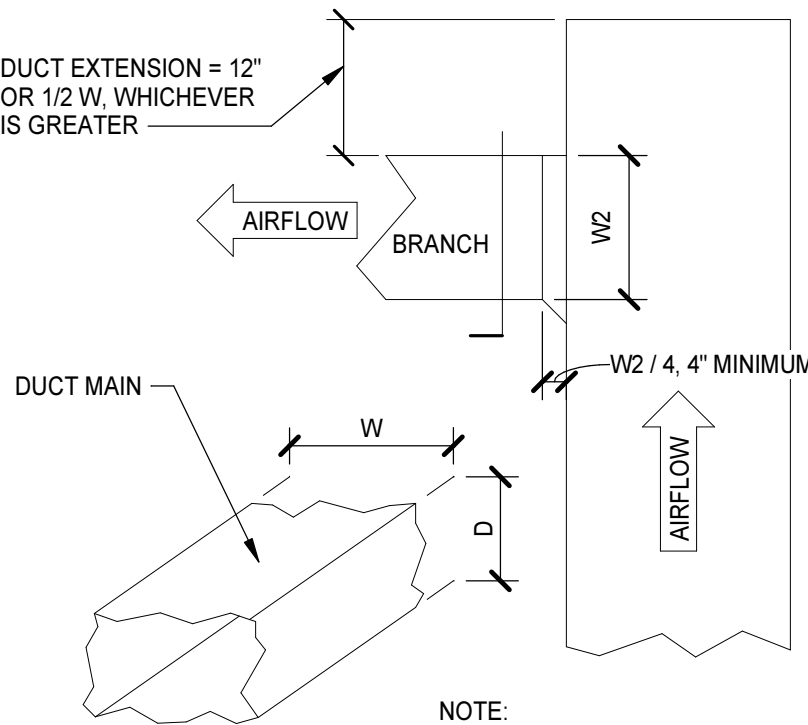


NEGATIVE PRESSURE TRAP
A = B + C + PIPE DIAMETER WHERE:
B = 1" FOR EACH INCH OF NEGATIVE STATIC PRESSURE + 1"
C = 1/2 OF B

CONDENSATE DRAIN PIPING DETAIL

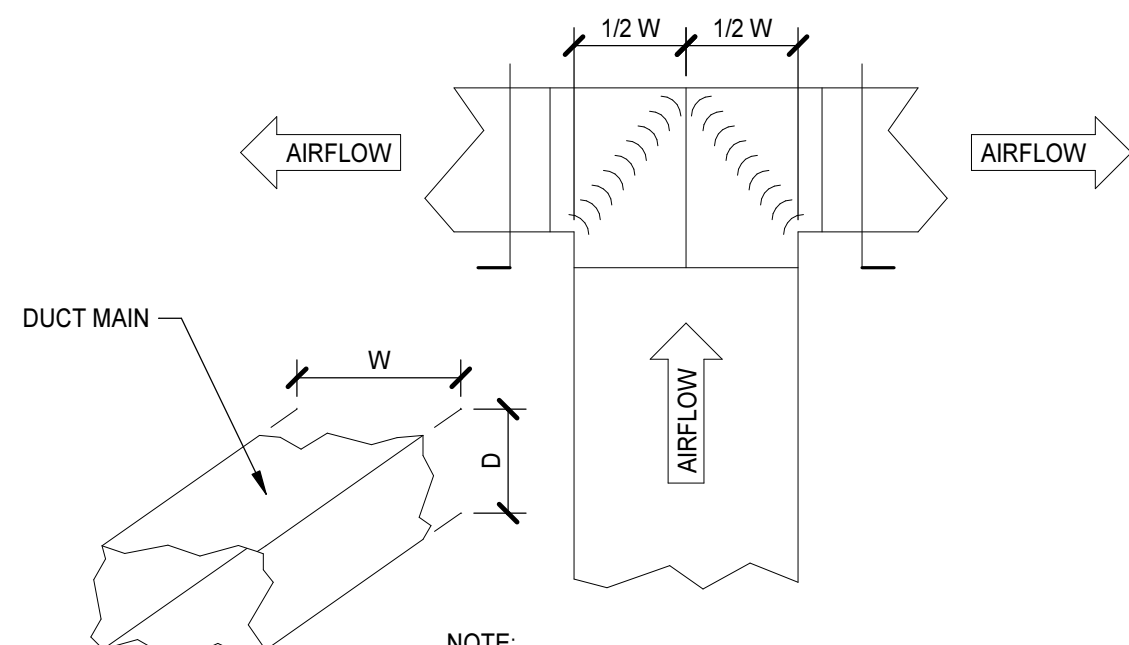


POSITIVE PRESSURE TRAP
A = B + C + PIPE DIAMETER WHERE:
B = 1" MINIMUM
C = 1" + MAXIMUM UNIT POSITIVE STATIC PRESSURE AT COIL DISCHARGE



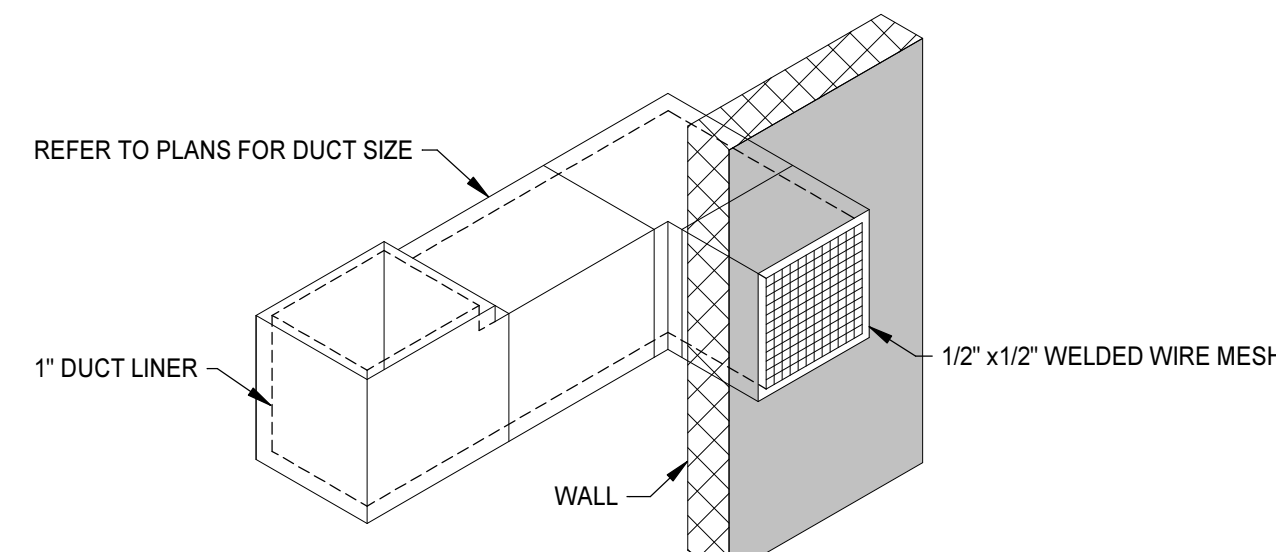
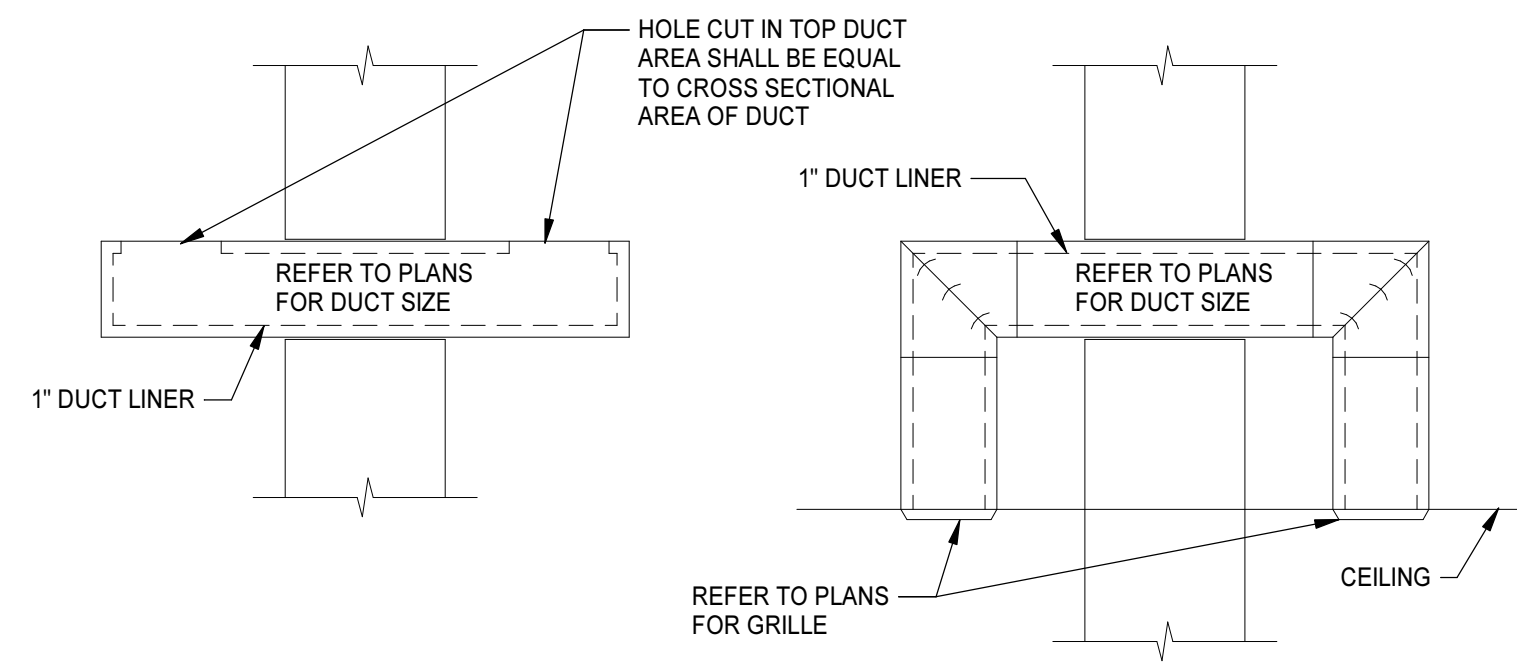
NOTE: REFER TO BRANCH TAKE-OFF DETAIL FOR BRANCH TAKE-OFF REQUIREMENTS

DUCT END OF MAIN DETAIL

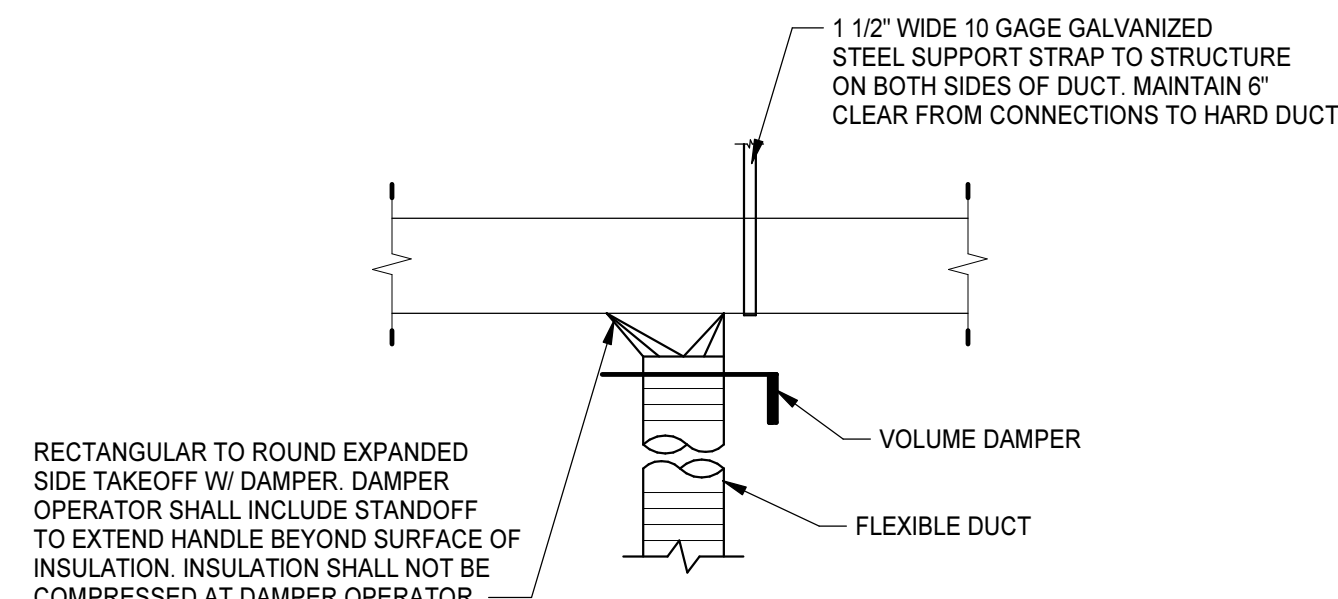


DESIGNER NOTES:
USE WHERE "W" EXCEEDS 24" WHEN YOU HAVE ROUND DUCT BRANCHES TO DIFFUSERS, OR WHEN AIR FLOW IS IN EXCESS OF 1500 CFM.
MAY BE PROPORTIONAL

DUCT SPLIT WITH VANES DETAIL

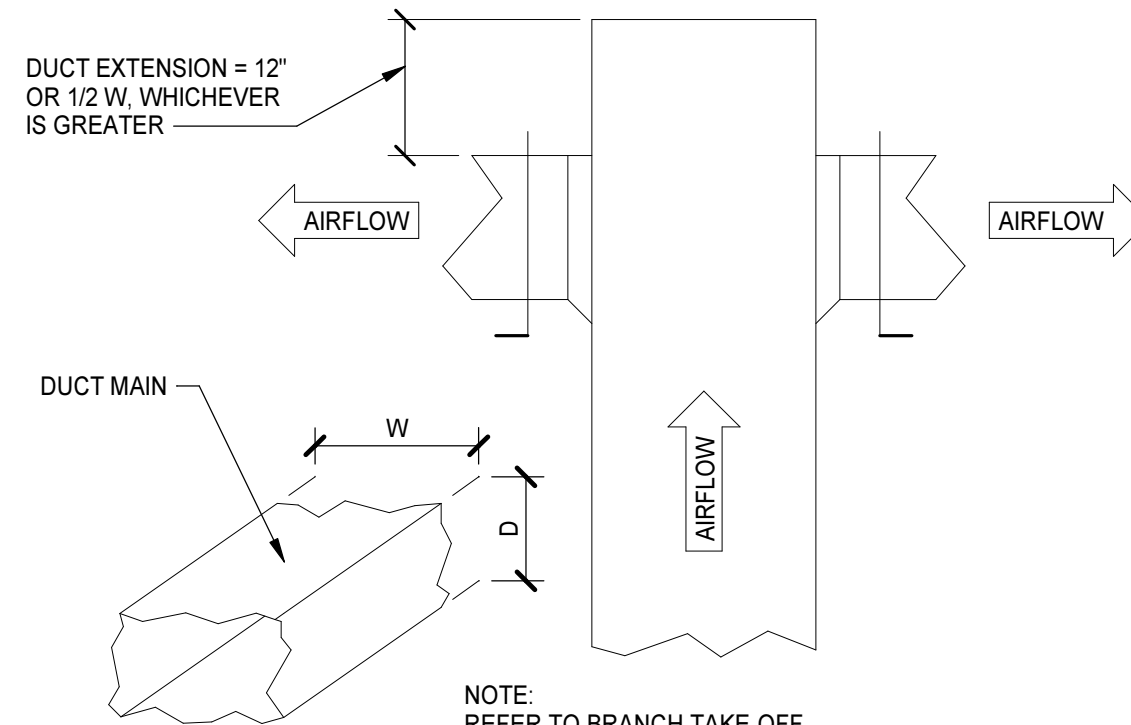


TRANSFER DUCT DETAIL



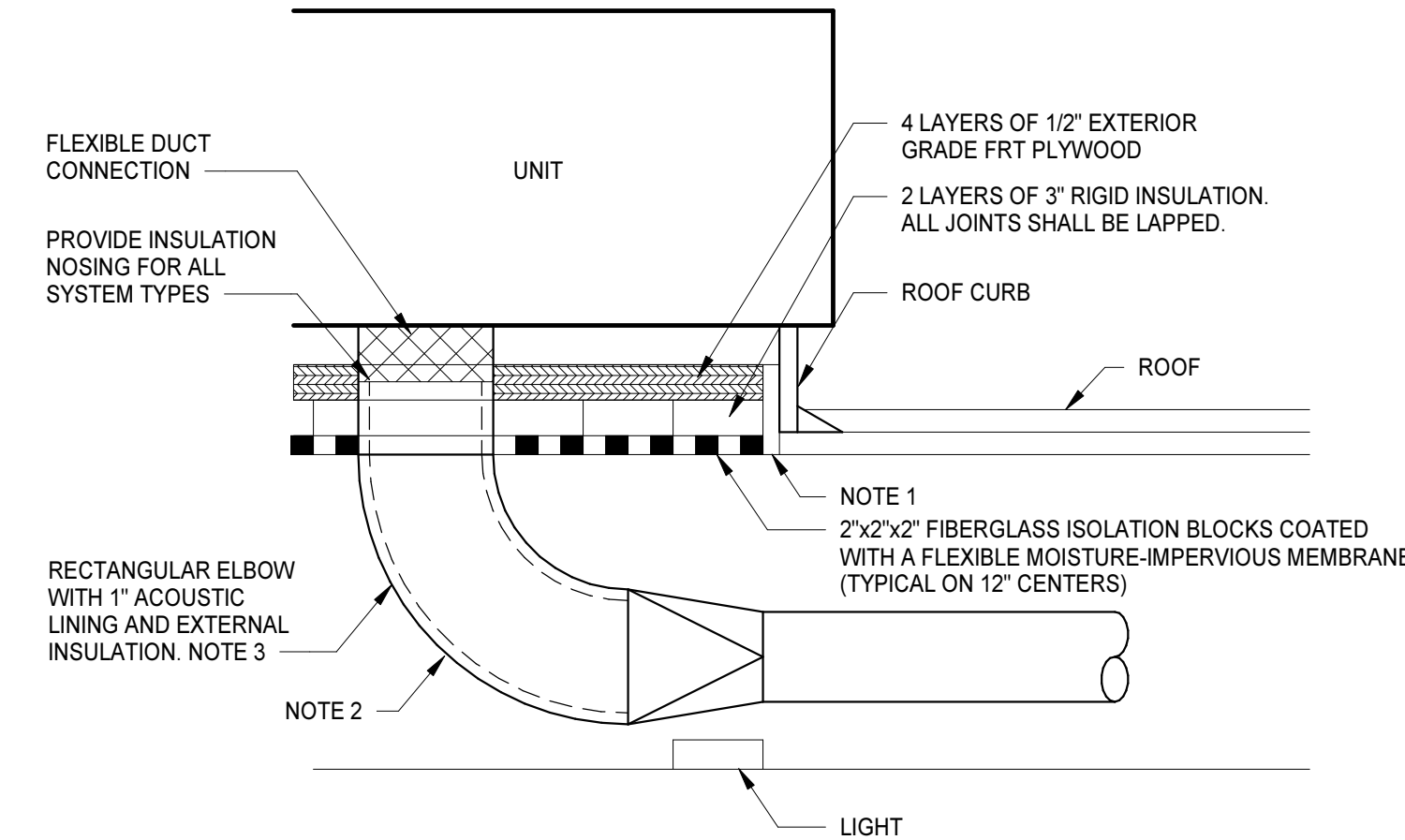
NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/UP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

BRANCH TAKEOFF TO DIFFUSER-BOTTOM



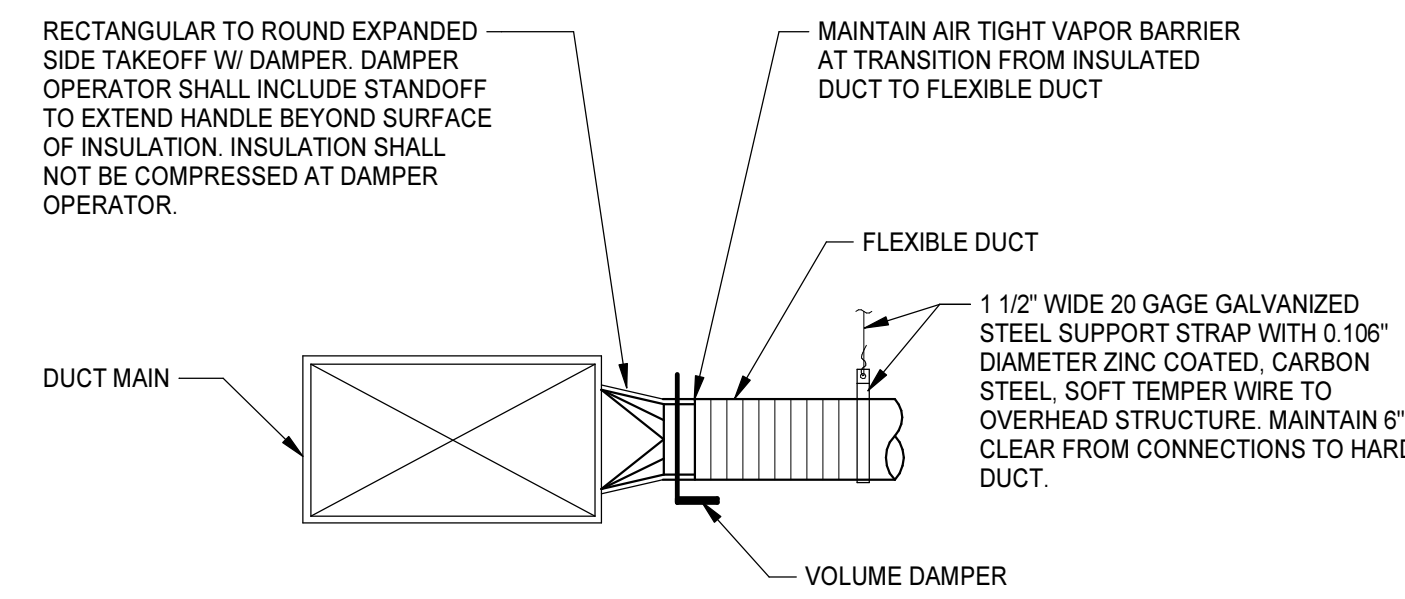
DESIGNER NOTES:
USE WHERE "W" IS LESS THAN 24". WHEN YOU HAVE ROUND DUCT BRANCHES TO DIFFUSERS, OR WHEN AIR FLOW IS EQUAL TO OR LESS THAN 1500 CFM.

DUCT SPLIT WITHOUT VANES DETAIL



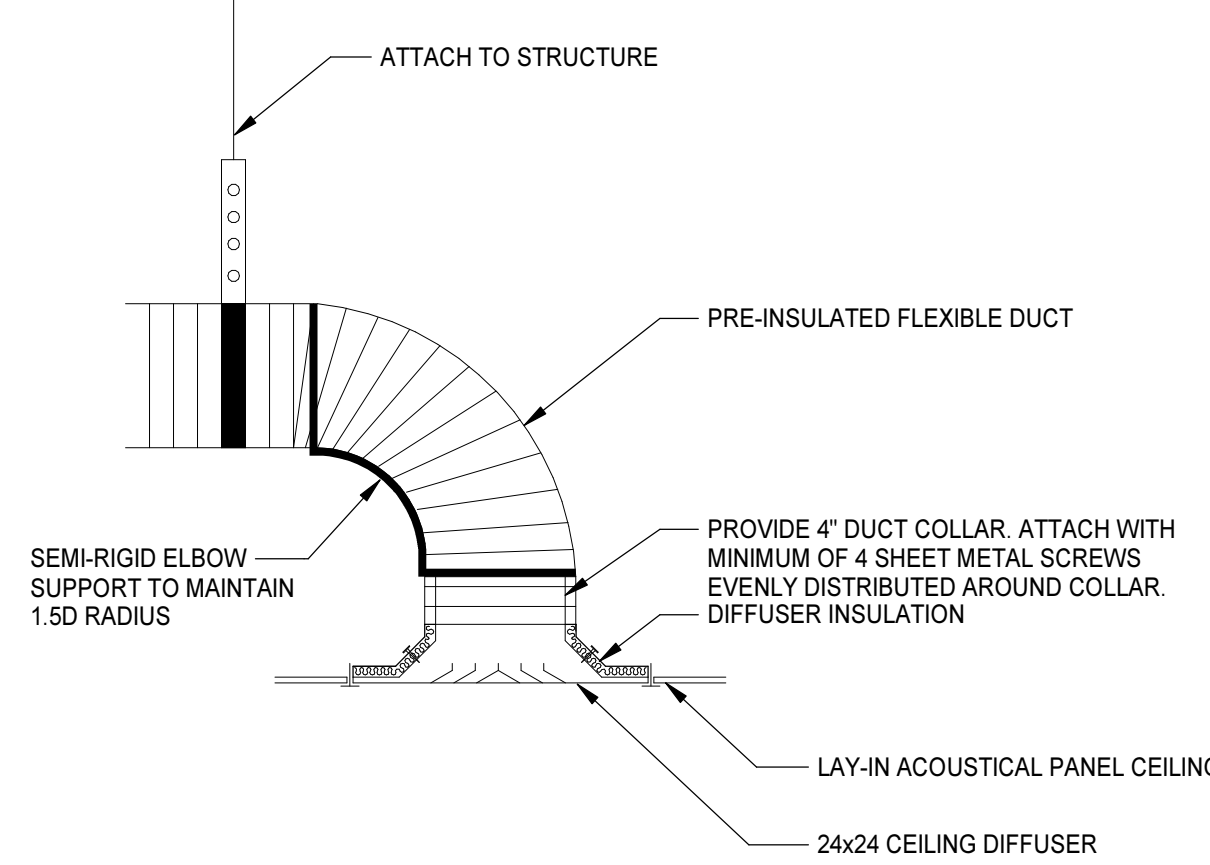
NOTES:
1. PERIMETER ISOLATION SHALL BE 3" RIGID INSULATION TURNED HORIZONTALLY. THIS SHALL BE LOCATED ON ALL INTERIOR SURFACES (CURB WALLS, DUCT SIDES, PIPING, ETC.) SO THAT PLYWOOD DOES NOT CONTACT ANY SURFACE OTHER THAN PERIMETER RAIL. PLYWOOD SHALL BE FITTED FIRMLY AGAINST PERIMETER RAIL. ANY GAPS SHALL BE CAULKED WITH A NON-HARDENING, HEAVY BODIES MATERIAL SUCH AS "SIKA-MI" ARCHITECTURAL JOINT CAULK. MAXIMUM GAP SHALL BE 3/8"
2. 1.5 D RADIUS ELBOW SHOWN. PROVIDE SHORT RADIUS ELBOW WHERE REQUIRED FOR LIMITED CEILING SPACE.
3. ELBOW SHALL BE HEAVY GAUGE WITH 1" ACOUSTIC LINING. MEDIUM PRESSURE VAV SYSTEMS - 12 GAUGE. LOW PRESSURE SINGLE ZONE UNITS - 16 GAUGE

RTU SOUND-SENSITIVE DETAIL

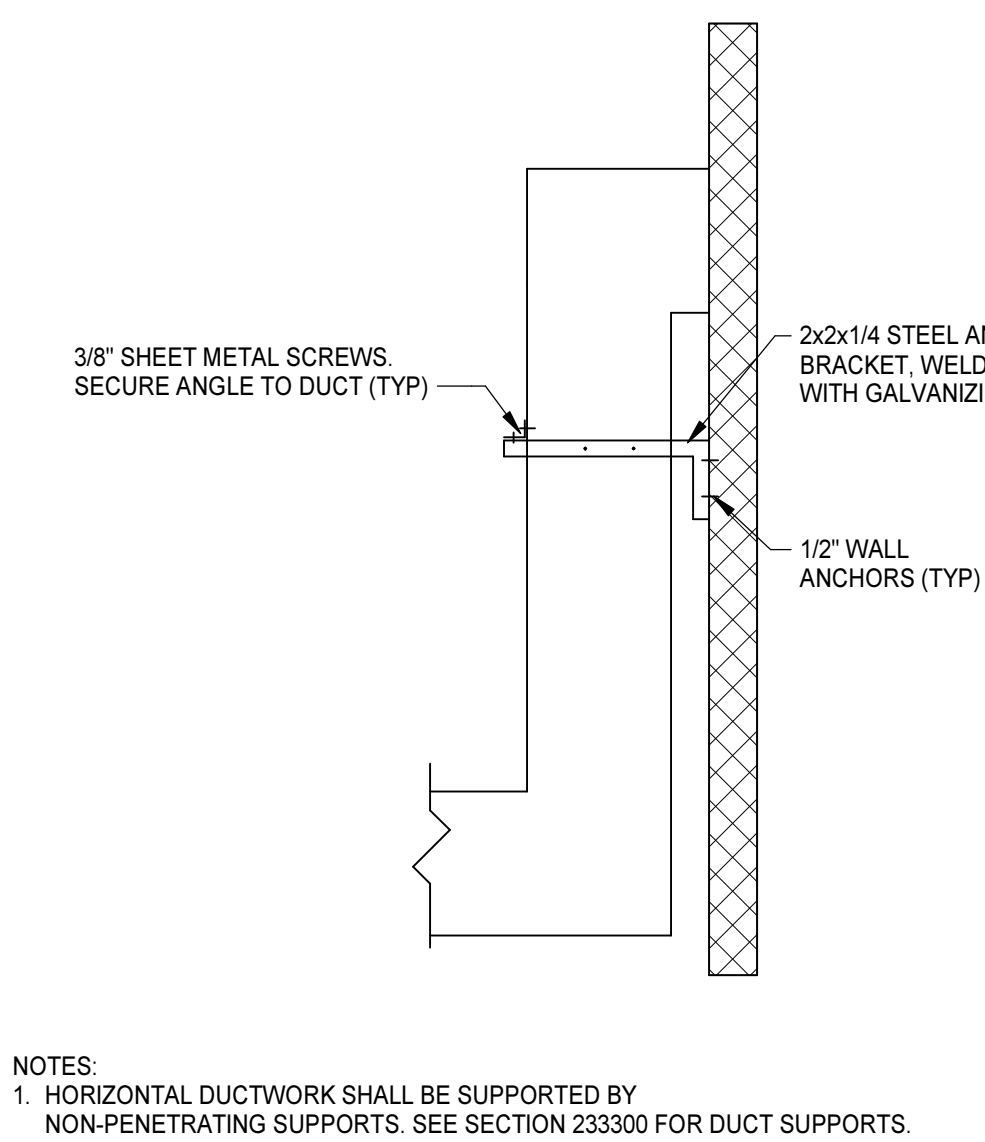


NOTES:
- FLEXIBLE DUCT SHALL BE INSTALLED OVER METAL DUCT (BEAD/UP ON METAL DUCT) AND ANCHORED W/ A SINGLE NYLON MECHANICAL BAND
- IN EXPOSED AREAS PROVIDE RIGID GALVANIZED STEEL DUCTWORK IN LIEU OF FLEXIBLE DUCTWORK INDICATED. SUPPORT IN ACCORDANCE WITH REQUIREMENTS SPECIFIED FOR STEEL DUCTWORK.

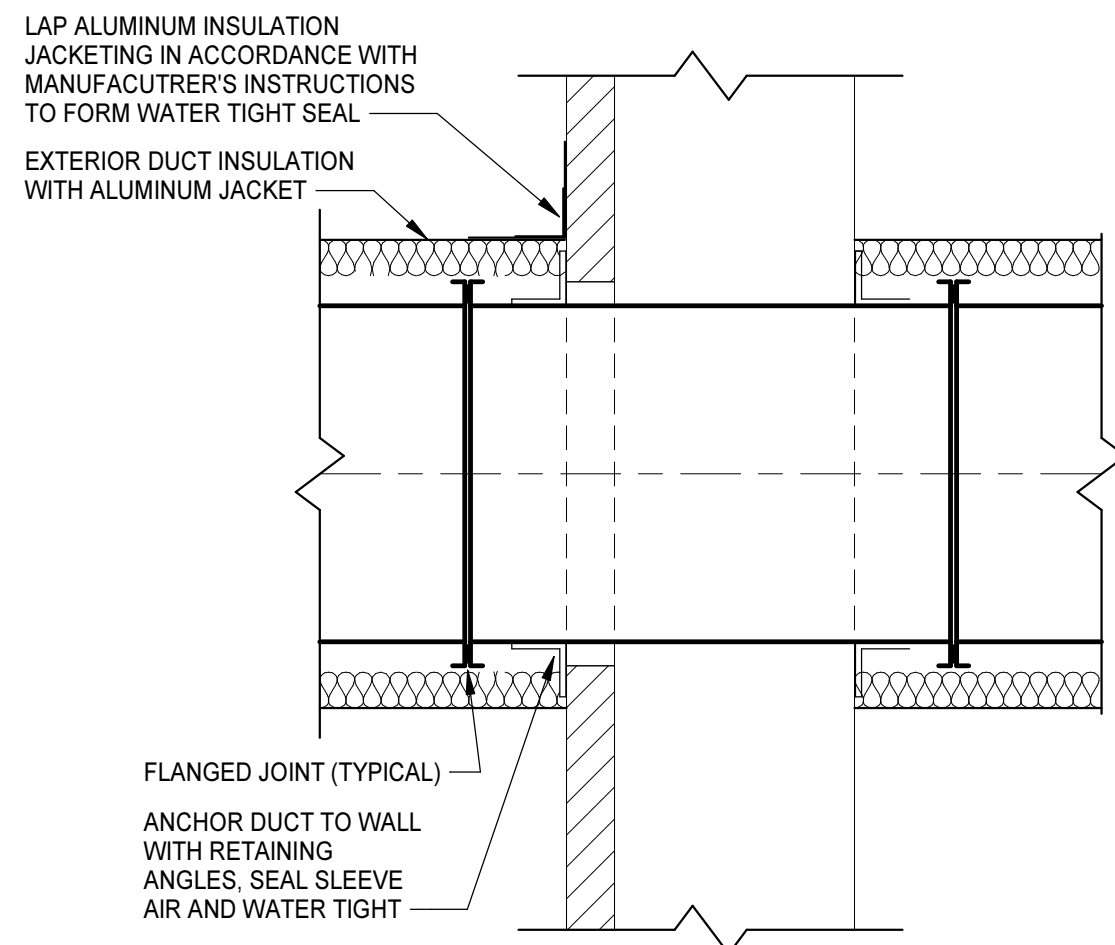
BRANCH TAKEOFF TO DIFFUSER-SIDE



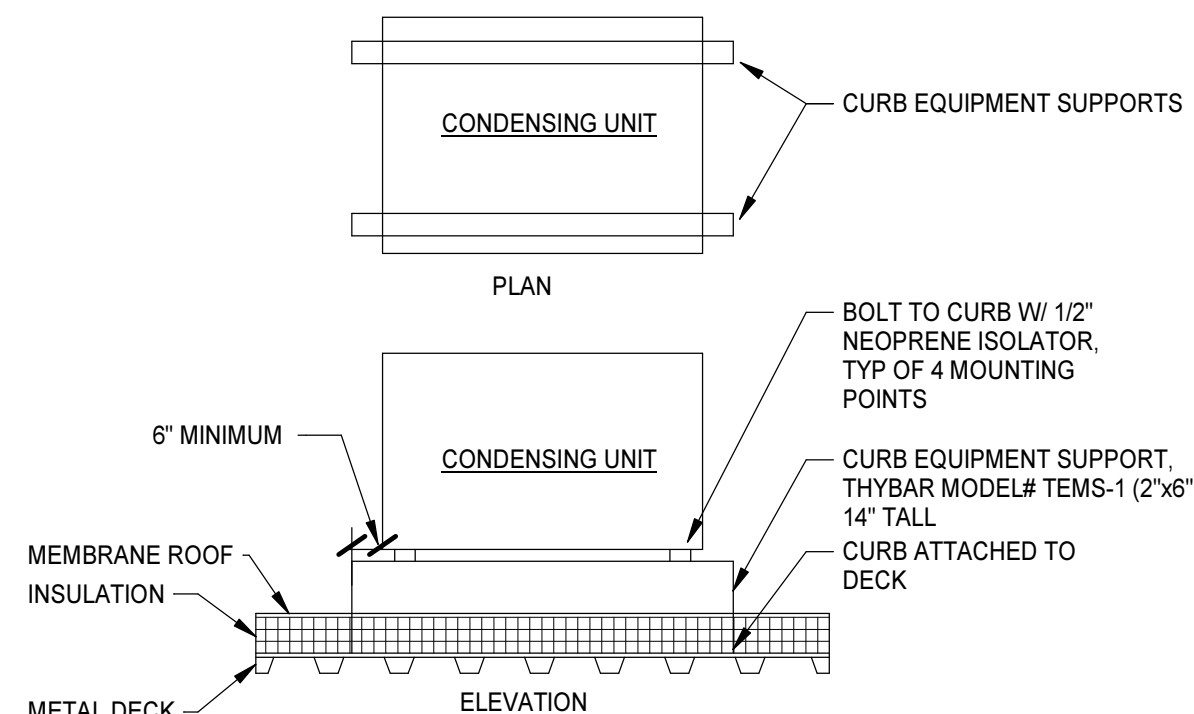
FLEXIBLE DUCT TO DIFFUSER CONNECTION DETAIL



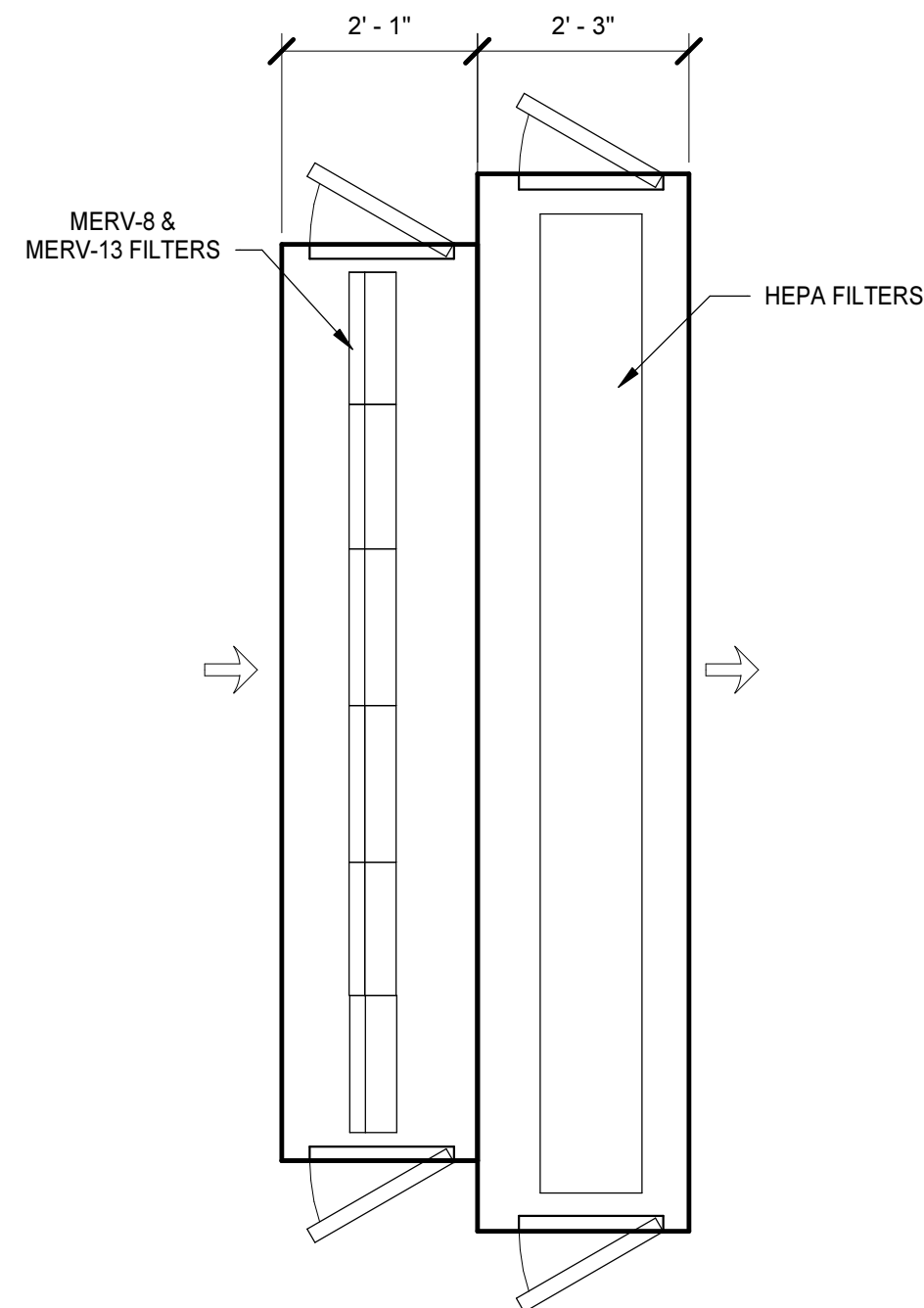
EXTERIOR DUCTWORK SUPPORT



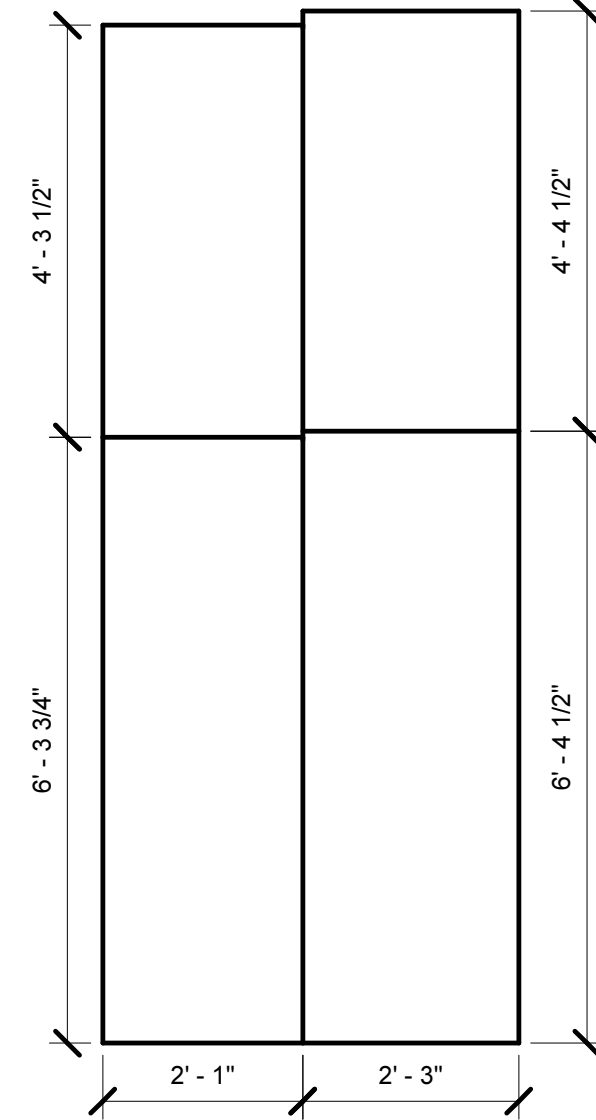
DUCT PENETRATION OF EXTERIOR WALL DETAIL



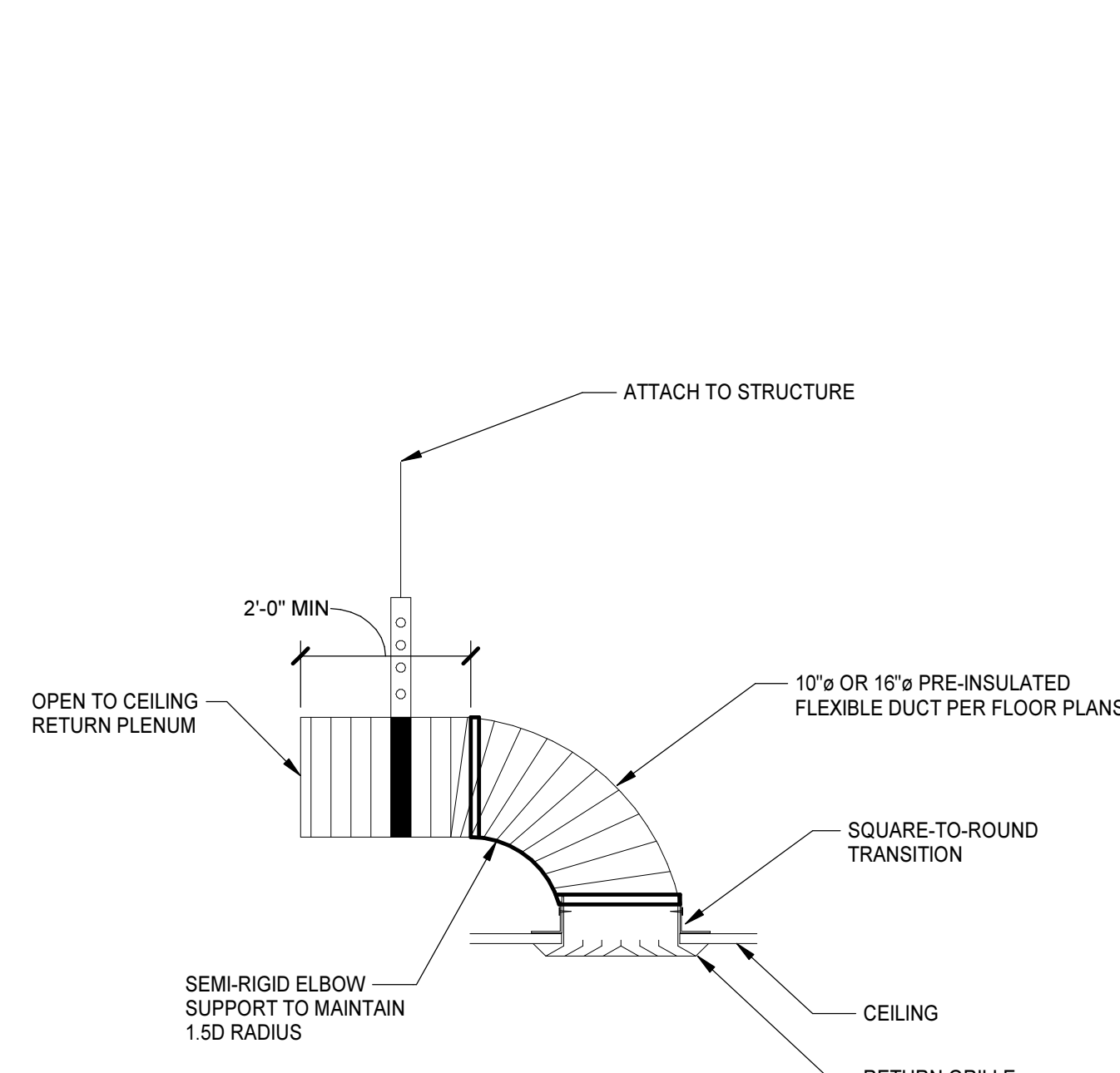
CONDENSING UNIT MOUNTING DETAIL



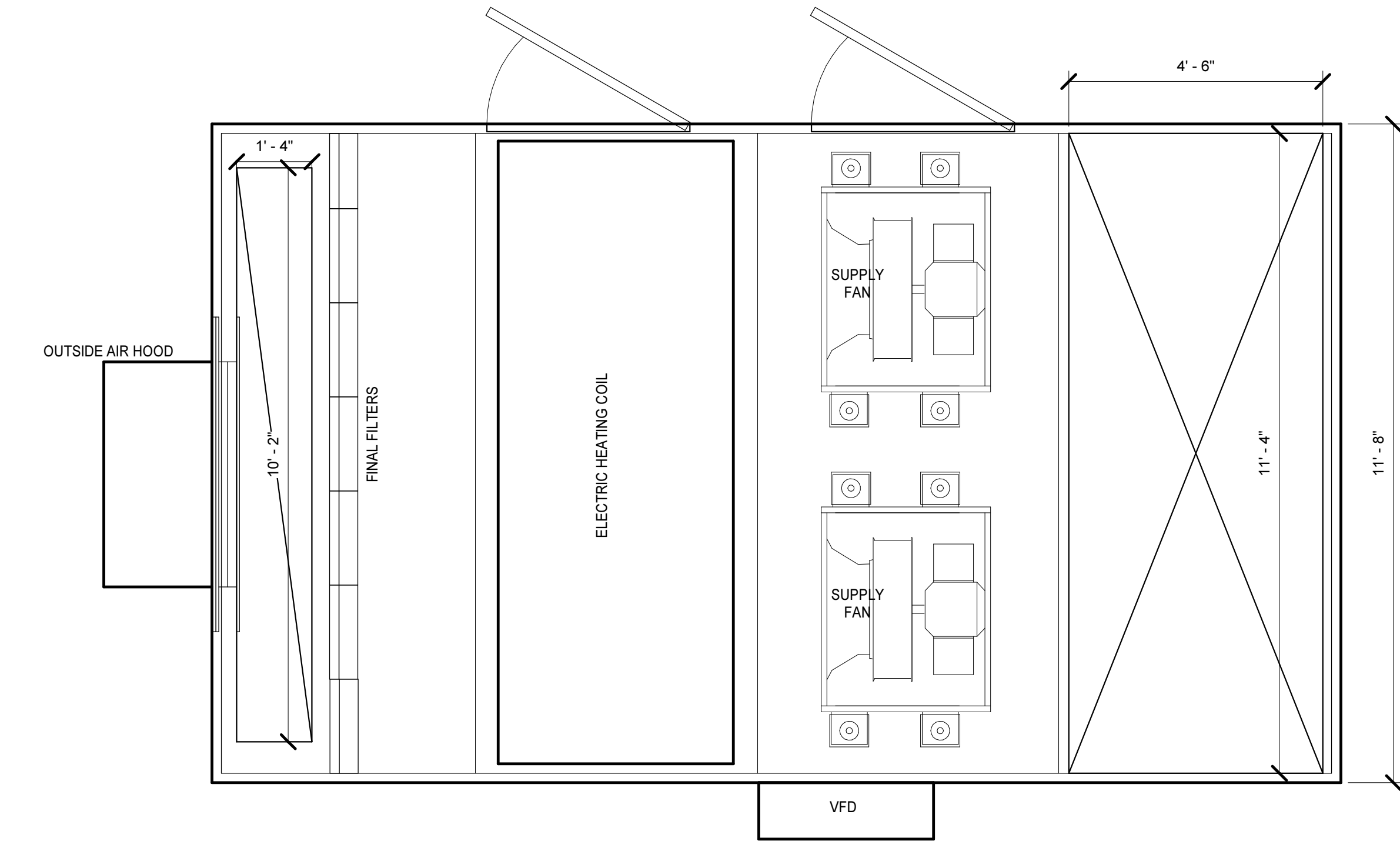
FILTER BOX LAYOUT



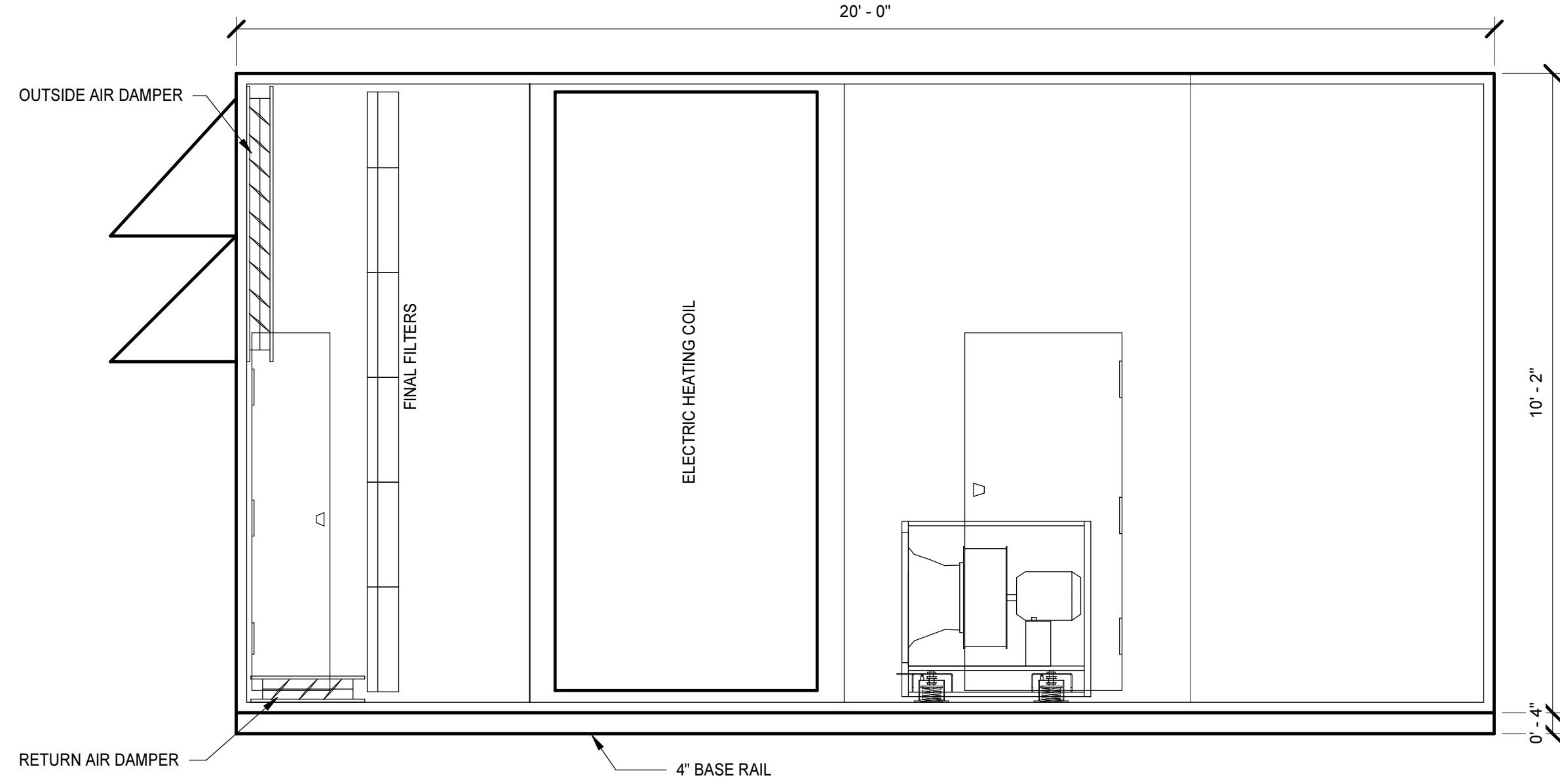
SECTION



RETURN AIR BOOT DETAIL

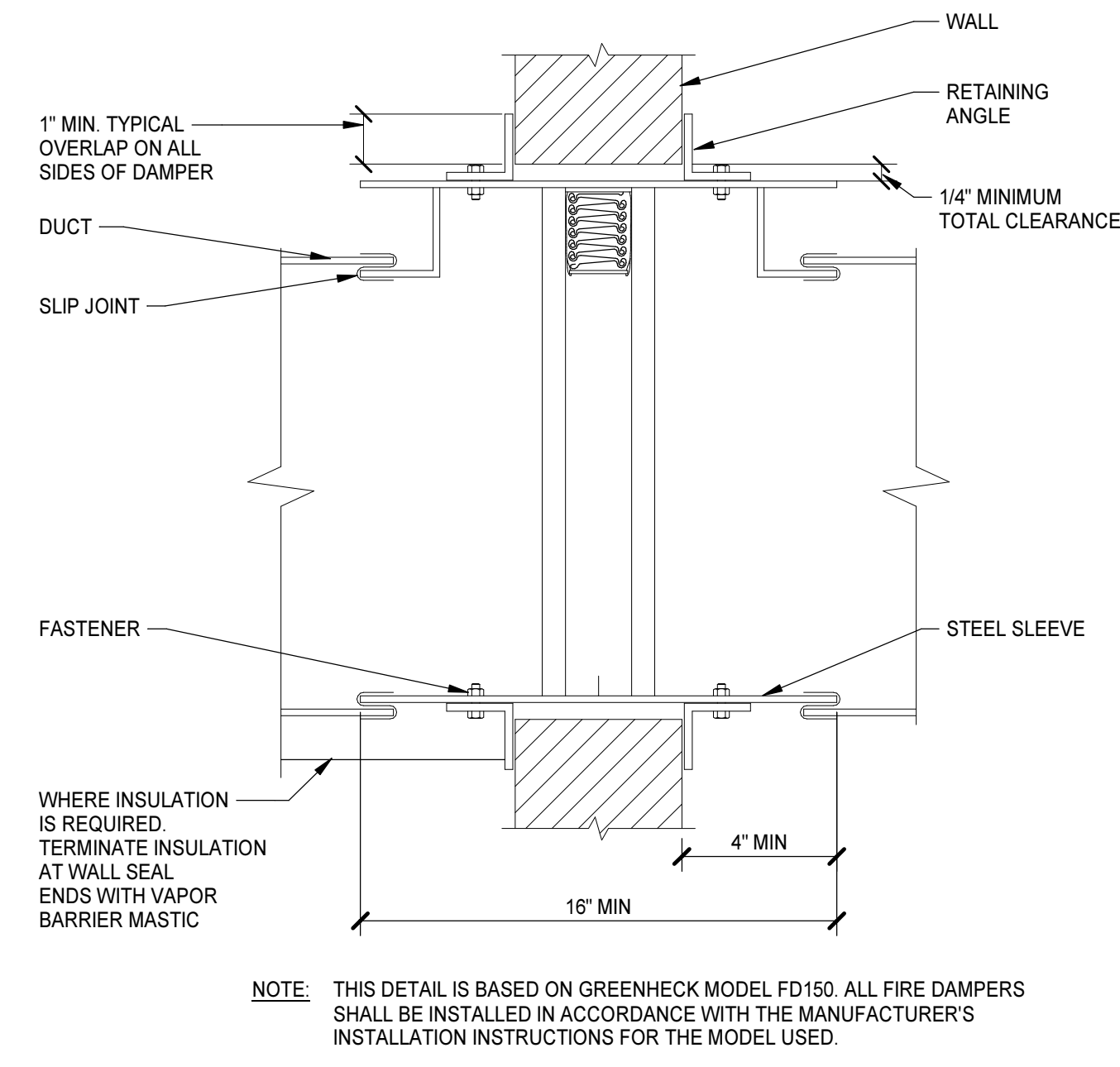


PLAN



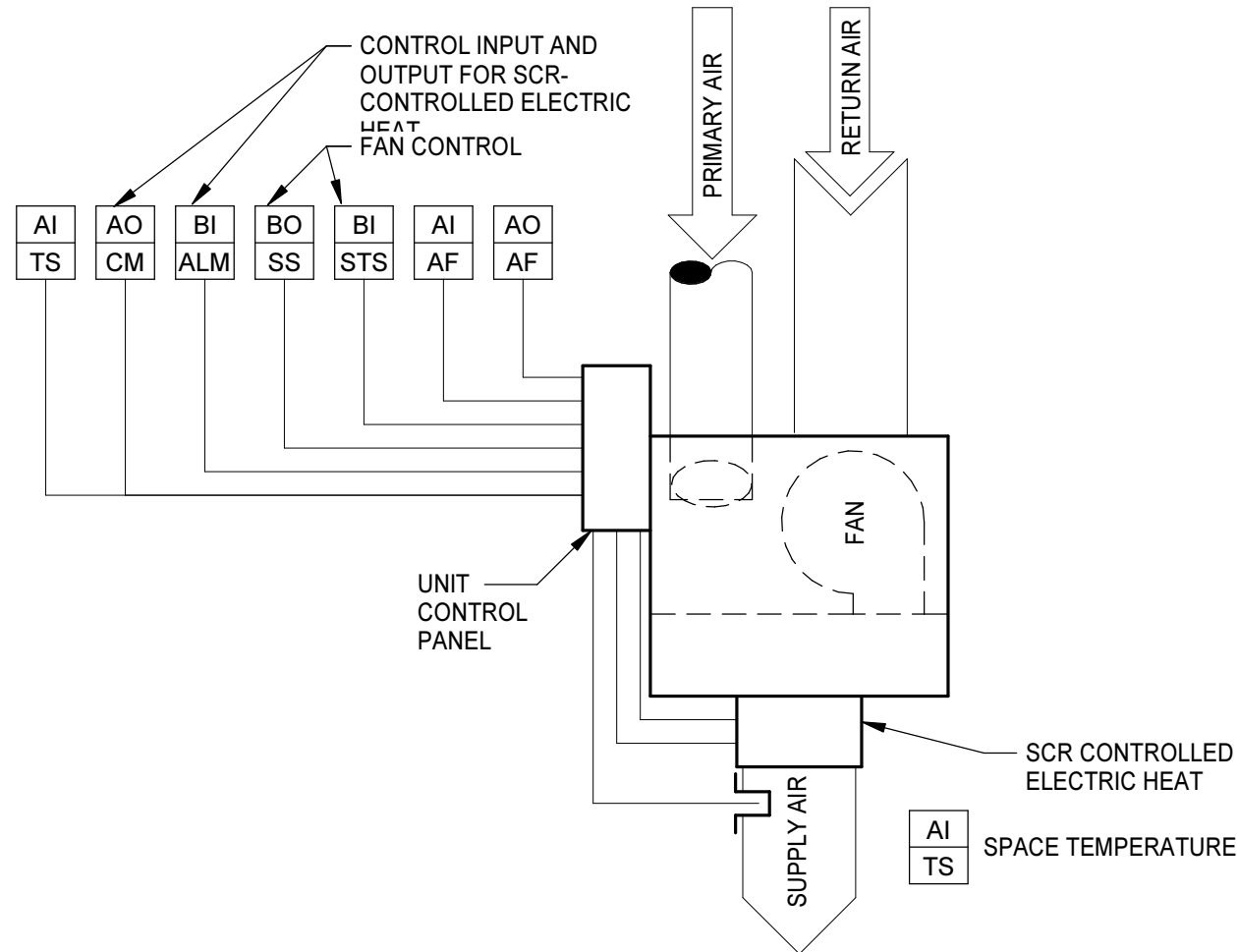
SECTION

RTU-2 UNIT LAYOUT

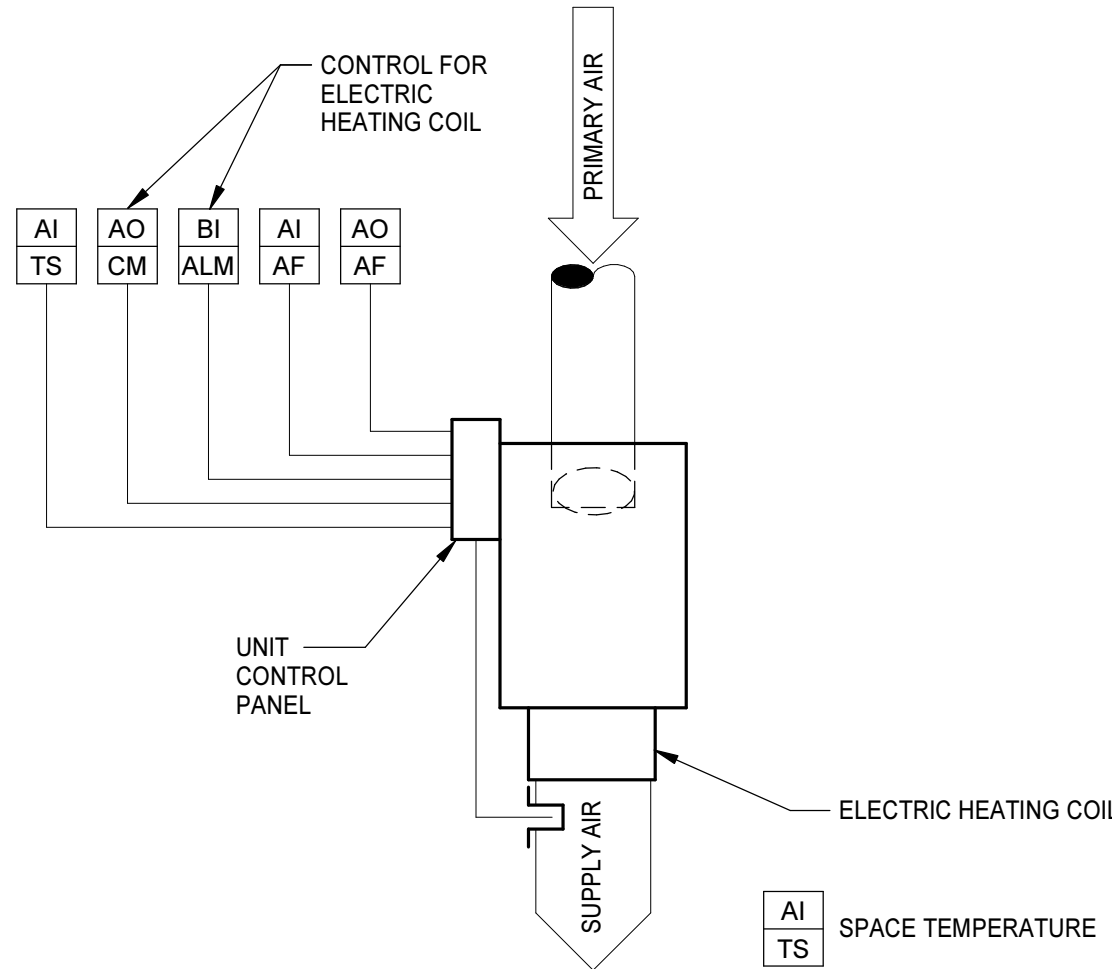


FIRE DAMPER INSTALLATION DETAIL - TYPE B (VERTICAL)

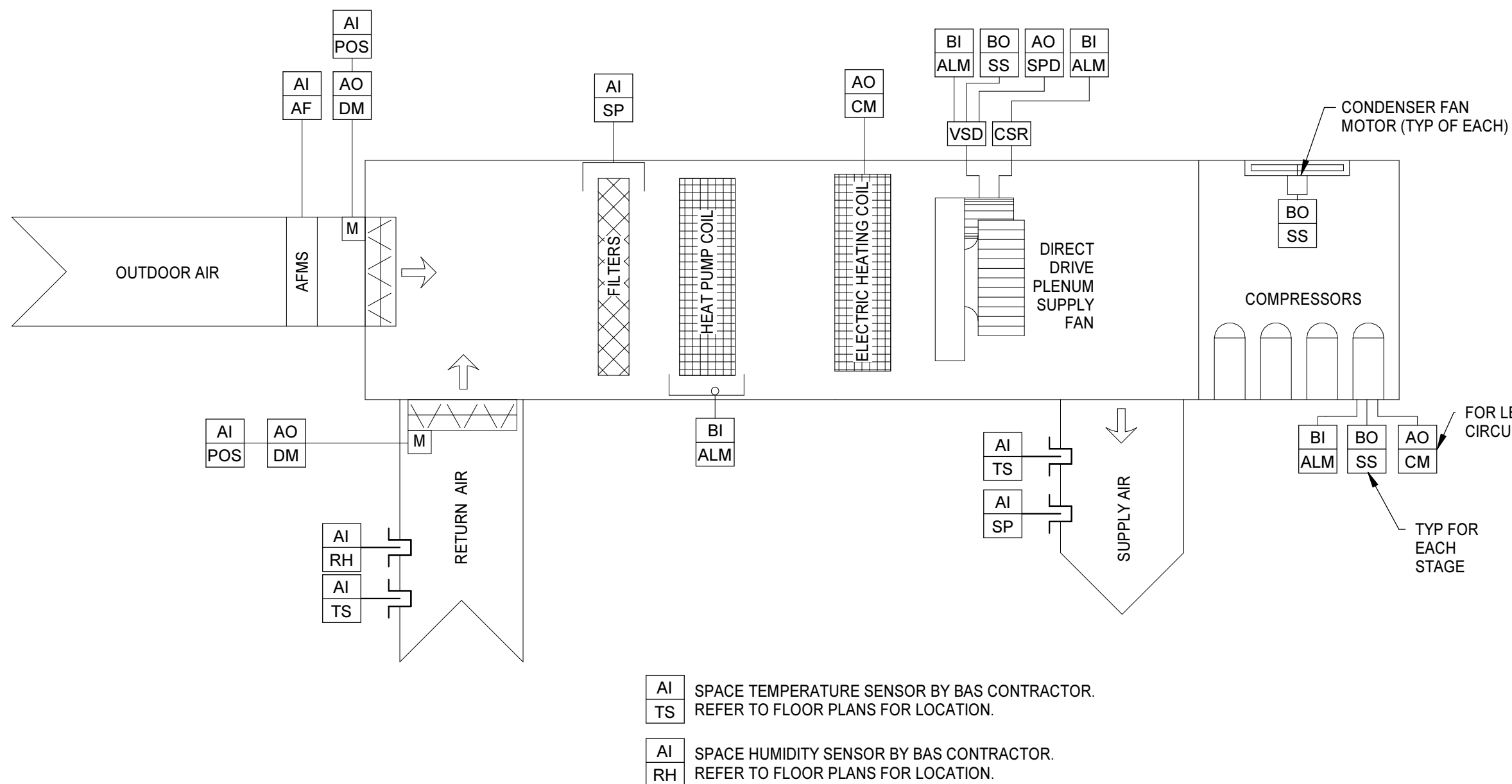
SERIES FAN POWERED TERMINAL UNIT
WITH SCR CONTROLLED ELECTRIC HEAT



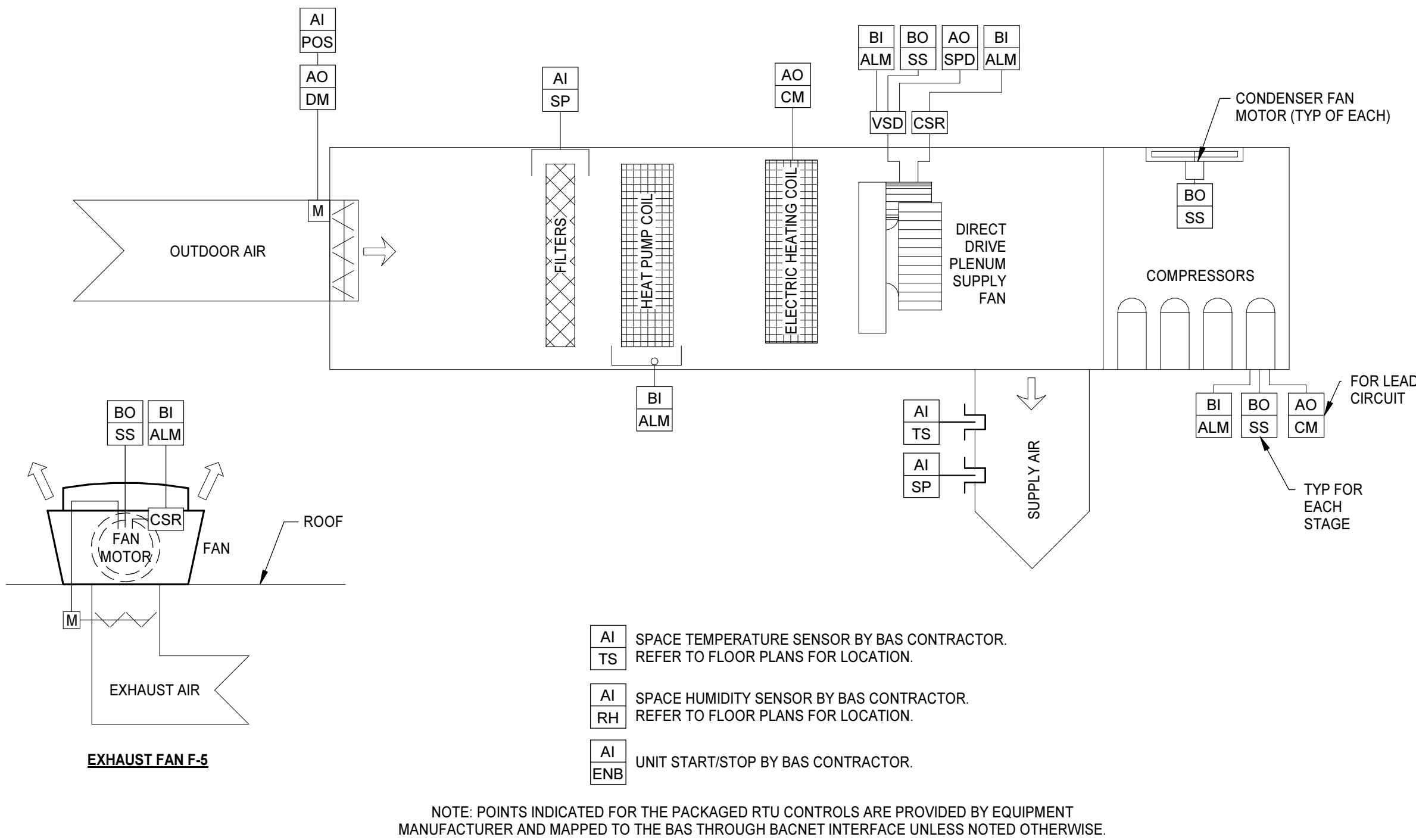
TERMINAL UNIT WITH
SCR CONTROLLED ELECTRIC HEAT



PACKAGED ROOFTOP HEAT PUMP UNIT (RTU-3)

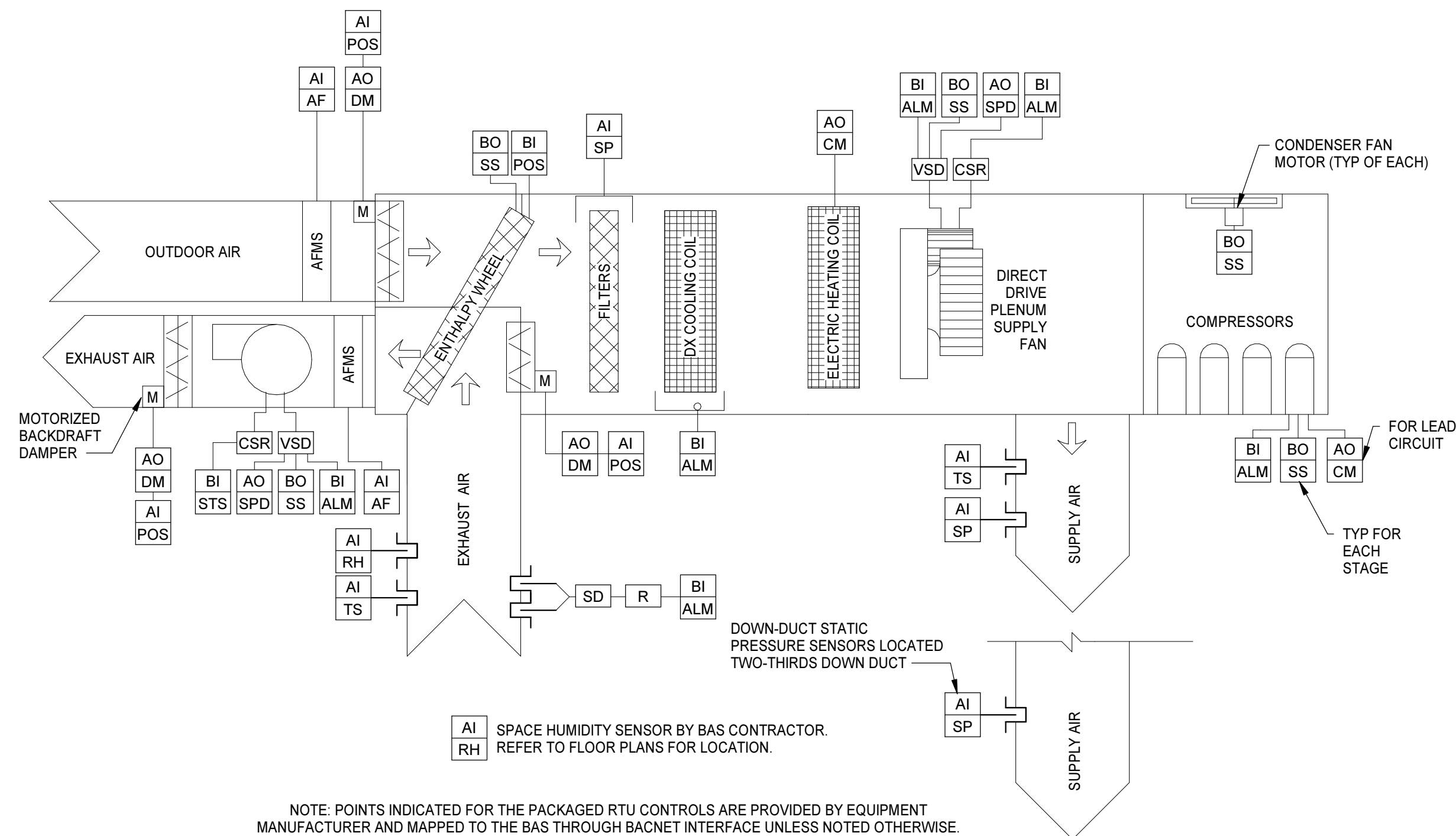


PACKAGED ROOFTOP HEAT PUMP UNIT (RTU-4) & WEAPONS CLEANING
EXHAUST FAN (F-5)

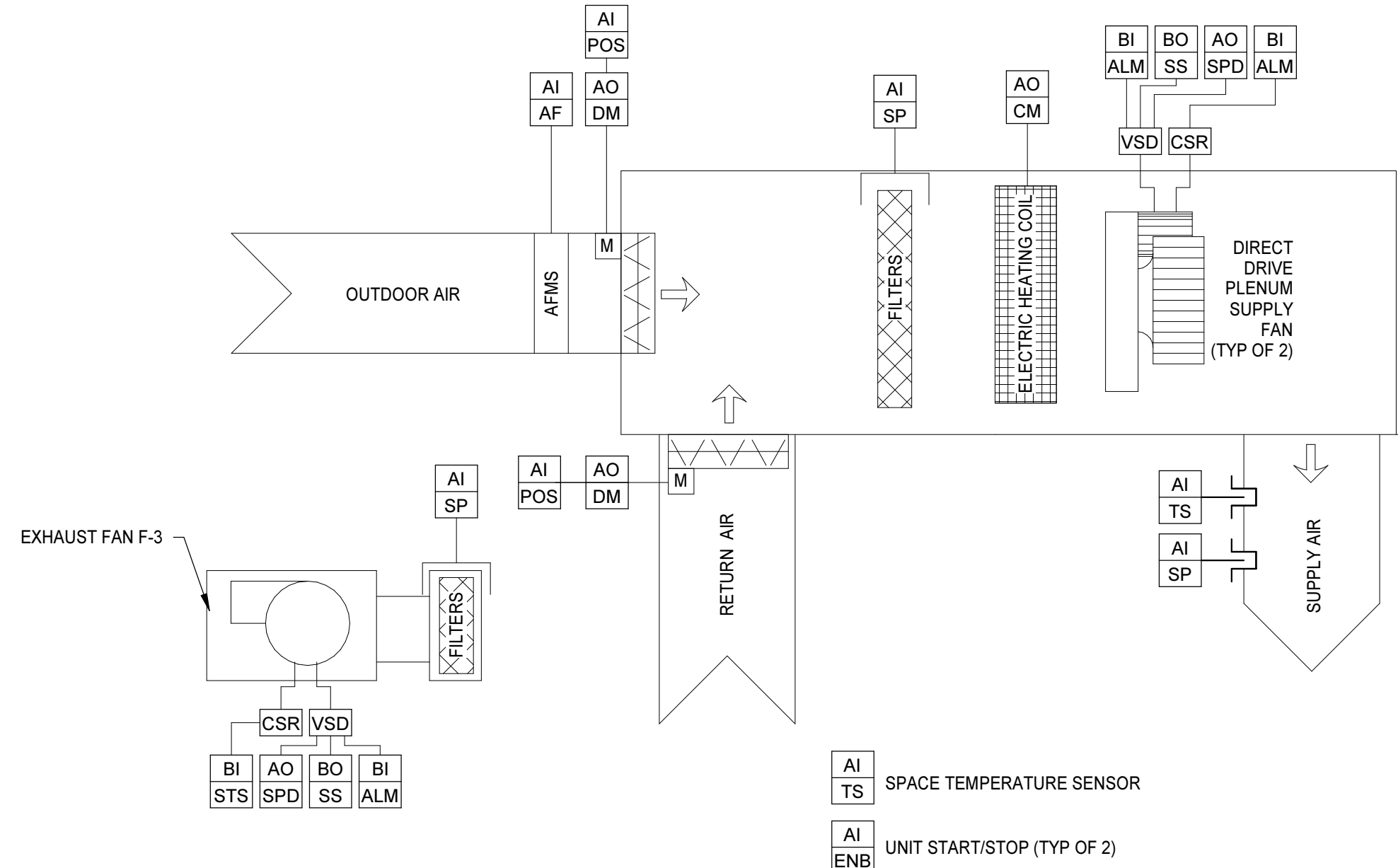


NOTE: POINTS INDICATED FOR THE PACKAGED RTU CONTROLS ARE PROVIDED BY EQUIPMENT MANUFACTURER AND MAPPED TO THE BAS THROUGH BACNET INTERFACE UNLESS NOTED OTHERWISE.

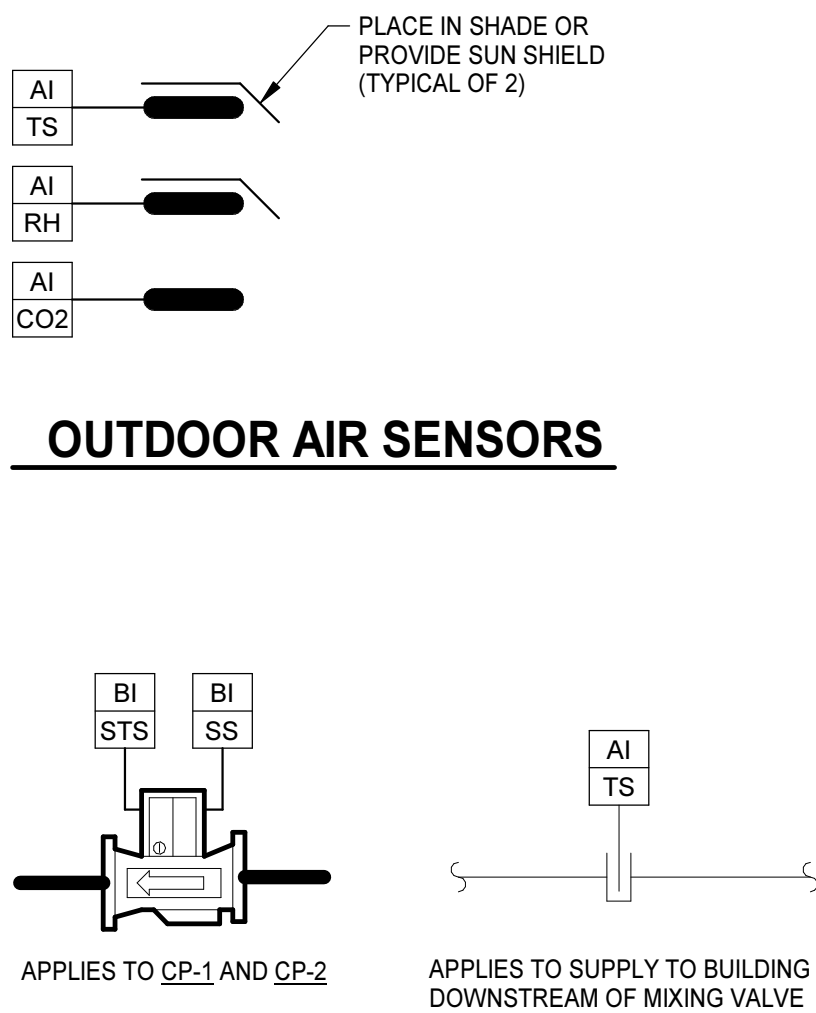
PACKAGED ROOFTOP VAV UNIT (RTU-1)



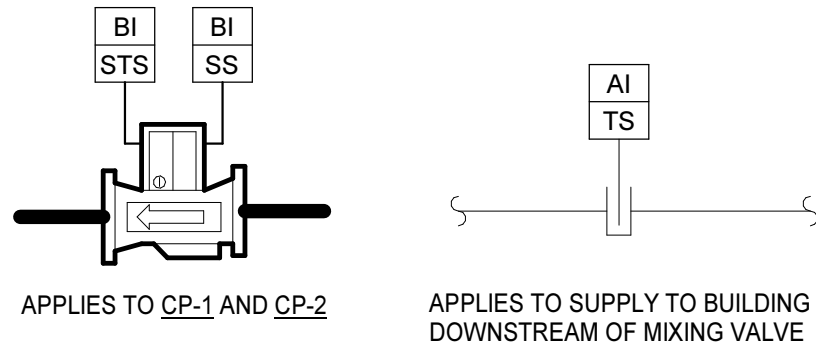
INDOOR SHOOTING RANGE ROOFTOP UNIT (RTU-2)



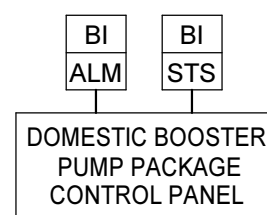
OUTDOOR AIR SENSORS



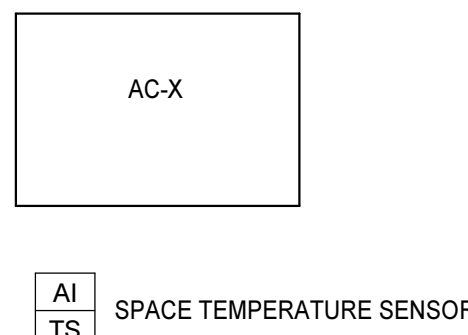
DOMESTIC WATER PUMP
AND TEMPERATURE MONITORING



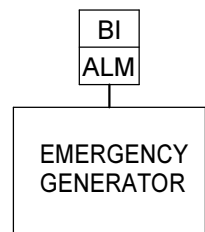
DOMESTIC BOOSTER PUMP



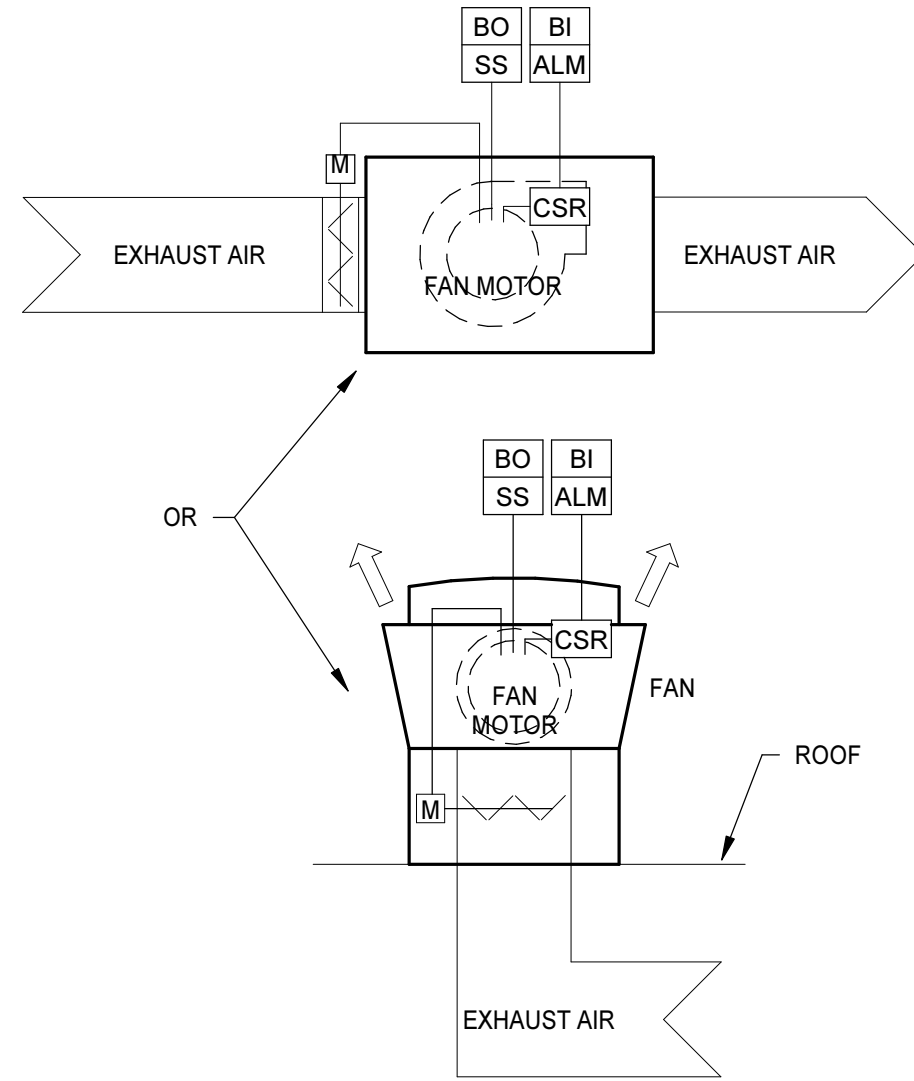
DUCTLESS SPLIT-SYSTEM AC UNITS



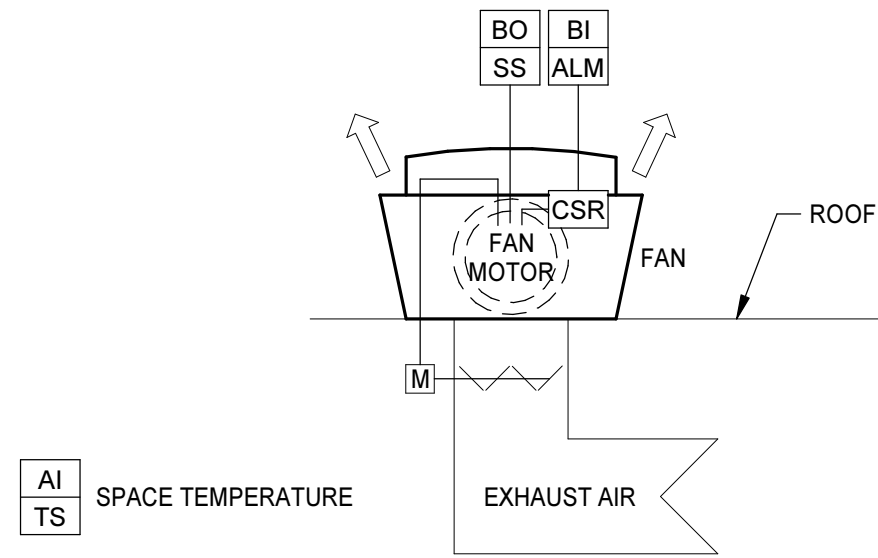
EMERGENCY GENERATOR MONITORING



EXHAUST FAN - CONTROLLED BY BAS SCHEDULE



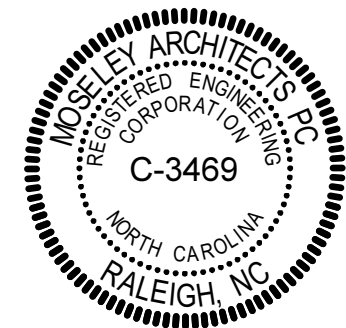
EXHAUST FAN CONTROL - SPACE TEMPERATURE



PROJECT NO. 800646	DATE: AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217



FIRE ALARM LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
	FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. # / # INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
	FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
	FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
	SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
	HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT 'G' WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
	FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
	FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
	FIRE ALARM MONITOR MODULE. NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
	FIRE ALARM CONTROL MODULE. NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
	FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0" AFF.
	FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120-VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
	FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
	FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

ONE LINE DIAGRAM LEGEND	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	FUSED SWITCH
	TRANSFORMER
	TRANSFER SWITCH
	FEEDER DESIGNATION
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER

GRAPHICS SYMBOLS LEGEND	
	SPACE IDENTIFICATION TAG SPACE NUMBER BUILDING AREA (WHEN USED)
	SECTION WHERE CUT SECTION NUMBER DRAWING WHERE SECTION IS INDICATED
	ENLARGED PLAN WHERE CUT ENLARGED PLAN NUMBER DRAWING WHERE ENLARGED PLAN IS INDICATED
	DETAIL TAG DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED
	DETAIL TITLE DETAIL NUMBER DRAWING WHERE DETAIL IS INDICATED ADDITIONAL DRAWING REFERENCES
	SECTION TITLE SECTION NUMBER DRAWING WHERE SECTION IS INDICATED ADDITIONAL DRAWING REFERENCES

AVERAGE MAINTAINED ILLUMINATION LEVELS	
TASK	FOOT CANDLES
CLASSROOMS	55
OFFICES	60
ELECTRICAL ROOMS	30
LOBBIES/CORRIDORS	15
TOILETS	20
STOREROOMS	20

POWER LEGEND	
SYMBOL	DESCRIPTION
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
	APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, WITH USB OUTLETS MOUNT AT +1'-6" AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
	DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
	SPD DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	POWER/COMMUNICATIONS POKE THRU FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE W/ SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE W/FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE J-BOX MTD TO STRUCTURE ABOVE CLG. AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MTD TO TOP OF POLE AND CONNECTED TO PITAL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE. COORDINATE WITH SYSTEM FURNITURE PROVIDER.
	LINE VOLTAGE THERMOSTAT, DIVISION 23 FURNISH, DIVISION 28 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
	PUSHBUTTON CONTROLLER
	PUSHBUTTON
	CORD REEL OUTLET, CEILING MOUNT.
	[NON-M] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6" AFF, UNO.
	JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
	JUNCTION BOX, UNDER FLOOR MOUNT.
	ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
	MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE. MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT W/HANDLE AT +3'-10" AFF, UNO.
	DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
	MAGNETIC MOTOR STARTER, WITH OVERLOAD RELAYS AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED. PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
	COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED, PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT W/HANDLE AT +4'-6" AFF, UNO.
	EQUIPMENT POWER CONNECTION.
	MOTOR CONNECTION.
	CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
	POWER FOR ELECTRIC DOOR LOCK CONNECTION.
	POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
	EMERGENCY GENERATOR.
	BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
	STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLGY.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
	PANELBOARD.
	TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
	RELAY, N/O OR N/C AS INDICATED.
	RELAY, NORMALLY OPEN.
	RELAY, NORMALLY CLOSED.
	FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

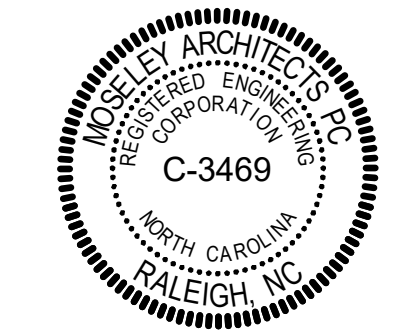
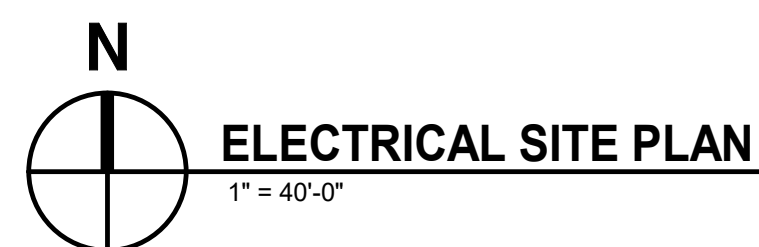
LIFE SAFETY SYMBOL LEGEND				
APPLIES TO LS SERIES OF DRAWINGS ONLY				
DESIGNATOR MATRIX				
	WALL	BARRIER	PARTITION	WATER BEARING OR NON-BEARING WALL
4 HR FIRE	▲▲▲▲	■ ■ ■ ■		
3 HR FIRE	▶▶▶▶	◆ ◆ ◆ ◆		● ● ● ●
2 HR FIRE	*****	■ ■ ■ ■		
1 HR FIRE		▶▶▶▶	*****	-----
½ HR FIRE			*****	*****
NOTES:				
1. WALL DESIGNATIONS ON THE LS SERIES OF DRAWINGS ARE FOR GRAPHICAL PURPOSES ONLY AND MAY NOT REPRESENT THE ACTUAL WALL/PARTITION CONSTRUCTION.				
2. REFER TO THE CONTRACT DOCUMENTS, INCLUDING THE LIFE SAFETY SYMBOLS LEGEND AND A0, A1 AND, A2 SERIES OF DRAWINGS, FOR ACTUAL WALL/PARTITION TYPES AND CONSTRUCTION REQUIREMENTS.				

COMMUNICATIONS LEGEND	
NOTE: REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX & CONDUIT REQUIREMENTS.	
SYMBOL	DESCRIPTION
	TELECOMMUNICATIONS OUTLET. MOUNT AT +3'-10" AFF.
	TELECOMMUNICATIONS OUTLET. MOUNT AT +1'-6" AFF.
	TELECOMMUNICATIONS OUTLET. MOUNT AT +7'-6" AFF.
	TELECOMMUNICATIONS OUTLET, CEILING MOUNT.
	RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
	INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6" AFF.
	[MISC COMMUNICATIONS OUTLET], MOUNT AT +4'-6" AFF.
	PUSHBUTTON SWITCH, MOUNT AT +4'-6" AFF. SUBSCRIPT "E" INDICATES EMERGENCY FUNCTIONS.
	CATV OUTLET, MOUNT AT +1'-6" [7'-6" AFF.
	WALL CLOCK, MOUNT AT +7'-6" AFF. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK.
	WALL CLOCK, CEILING MOUNT. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK. ARROWS INDICATE FACE DIRECTION.
	MICROPHONE OUTLET, WALL MOUNT AT +1'-6" AFF. FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
	SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6" AFF. "WG" WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
	SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. "WG" WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
	POWER/COMMUNICATIONS RECESSED FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL" FOR BOX AND CONDUIT REQUIREMENTS.
	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL."
	POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS, (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT, UNO. REFER TO "TYPICAL COMMUNICATION OUTLET DETAIL."
	SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUB-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
	SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
	WIRELESS ACCESS POINT
	TELECOMMUNICATIONS EQUIPMENT RACK.
	2' EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
	TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6" AFF.
	TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6" AFF.
	CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND	
SYMBOL	DESCRIPTION
	5 LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10" AFF. SUBSCRIPT/SUPERSCRIPIT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS: <div><div>3 INDICATES 3-WAY LIGHT SWITCH</div><div>4 INDICATES 4-WAY LIGHT SWITCH</div><div>D INDICATES DIMMER SWITCH</div><div>P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON</div><div>K INDICATES KEY OPERATED LIGHT SWITCH</div><div>OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR</div><div>OS¹ INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR</div><div>OS² INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING</div></div> LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
	OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
	DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
	PHOTOELECTRIC CELL FOR LIGHTING CONTROL, WALL MOUNT AT +10'-0" AFF. AIM NORTH.
	LIGHT FIXTURE, CEILING MOUNT.
	LIGHT FIXTURE WITH EMERGENCY BATTERY PACK, CEILING MOUNT.
	LIGHTING FIXTURE.
	LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK.
	WALL WASHER LIGHTING FIXTURE.
	LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
	EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0" AFF.
	EXIT SIGN, CEILING MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	EXIT SIGN, WALL MOUNT. DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
	LIGHTING CONTROL PANEL.
	LIGHT FIXTURE, POLE MOUNT.
	SPORTS LIGHTING POLE.

GENERAL NOTES	
A.	THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN THE CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
B.	FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED. MEASURE ALL MOUNTING HEIGHTS FROM THE DEVICE CENTER LINE UNLESS OTHERWISE INDICATED.
C.	FIELD VERIFY EXACT FEEDER LOCATIONS FOR MECHANICAL EQUIPMENT PRIOR TO ROUGH-IN.
D.	EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH OTHER TRADES SUPPLYING EQUIPMENT TO AVOID CONFLICTS AT INSTALLATION.
E.	LOCATED ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED.
F.	PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE. PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPE WRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT.
G.	PROVIDE AS-BUILT DRAWINGS INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. PROVIDE TYPEWRITTEN PANELBOARD DIRECTORIES INDICATING ACTUAL BRANCH CIRCUIT ARRANGEMENT. HAND WRITTEN SCHEDULES ARE NOT ACCEPTABLE.
H.	ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC. COORDINATE ROUTING IN ALL SPACES WITH OTHER TRADES.
I.	ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE, UNO. THE CONTRACTOR SHALL FIELD VERIFY ROOM LAYOUT AND ADJUST ACCORDINGLY, AT NO COST TO THE OWNER, IF PROVIDING ANY PANELBOARD ENCLOSURES.
J.	WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS, FIELD COORDINATE THE LOCATIONS TO PLACE THE OUTLETS ADJACENT TO EACH OTHER.
K.	ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT.
L.	WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT, PROVIDE DEDICATED COLOR CODED NEUTRAL CONDUCTORS FOR EACH CIRCUIT. DO NOT USE BREAKER TIES AND SHARED NEUTRALS EVEN THOUGH PERMITTED BY NEC.
M.	PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE. IN FRONT OF ALL ELECTRICAL PANELS IN ELECTRICAL ROOMS, REFER TO PLANS FOR ELECTRICAL WORKING SPACE DETAILS. STENCIL "NO STORAGE IN 2" HIGH, YELLOW LETTERS CENTERED IN THE OUTLINED AREA.

ABBREVIATIONS	
1P	SINGLE PHASE
3P	THREE PHASE
3R	WEATHERPROOF (NEMA 3R)
A	AMPS
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
BFC	BELOW FINISHED CEILING
BLFG	BELOW FINISHED GRADE
BKR	BREAKER
C	CONDUIT
CATV	COMMUNITY ANTENNA TELEVISION (CABLE)
CB	CIRCUIT BREAKER
CBL	CABLE
CCTV	CLOSED CIRCUIT TELEVISION
CRCT	CIRCUIT
CLG	CEILING
CLR	CLEAR
CO	COMPANY
COMB	COMBINATION
COMM	COMMUNICATIONS
CU	COPPER
DI	DIAMETER
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
EBH	ELECTRIC BASEBOARD HEATER
EC	EMPTY CONDUIT
ECS	EMERGENCY COMMUNICATIONS STATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EPO	EMERGENCY POWER OFF
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXT	EXTERIOR
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAGP	FIRE ALARM GRAPHIC PANEL
FAXP	FIRE ALARM EXTENDER PANEL
FFSP	FIRE FIGHTERS SMOKE CONTROL PANEL
FLA	FULL LOAD AMPS
FPMR	FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS
FPND	FUSE PER NAMEPLATE DATA
G	GROUND
GE	GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 477.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER)
GFCI	GROUND FAULT CIRCUIT INTERRUPT
GFP	GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER)
HKP	HOUSEKEEPING PAD
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
I	IN ACCORDANCE WITH
IG	ISOLATED GROUND
J-BOX	JUNCTION BOX
KHFS	KITCHEN HOOD FIRE SUPPRESSION SYSTEM
KH	KILOHERTZ
KVA	KILOVOLT AMPS
KW	KILOWATTS
KWH	KILOWATT HOURS
L	LOOKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER)
LC	ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MH	METAL HALIDE
MHz	MEGAHERTZ
MIN	MINIMUM
ML	MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER)
MLO	MAIN LUG ONLY
MNS	MASS NOTIFICATION SYSTEM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOUNTED	MOUNTED
MTD	NEUTRAL
N	NORMALLY CLOSED
N/O	NORMALLY OPEN
NO	NUMBER
OCFI	OWNER FURNISHED CONTRACTOR INSTALLED
P	PILOT LIGHT (AT THE SWITCH HANDLE)
PBD	PANELBOARD
PD	PROTECTIVE DEVICE
RCPT	RECEPTACLE
REC	RECEPTACLE
SEC	SECURITY
SPD	SURGE PROTECTIVE DEVICE
SPEC.	SPECIFICATIONS
SHUNT	SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER)
SW	SWITCH
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TO	TELECOMMUNICATIONS CLOSET
TELECOM	TELECOMMUNICATIONS
TGB	TELECOMMUNICATIONS GROUNDING BUS BAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR
TYP	TYPICAL
UNO	UNLESS NOTED (INDICATED) OTHERWISE
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WITH	WITH
WG	WIRE GUARD
WP	WEATHERPROOF
XFER	TRANSFER
XPMR	TRANSFORMER



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B

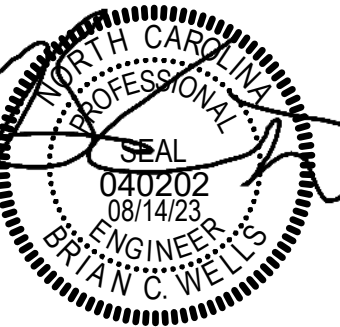
ALAMANCE COMMUNITY COLLEGE

2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO: 600646	
DATE: AUGUST 14, 2023	
REVISIONS	
DATE	DESCRIPTION

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SITE PLAN

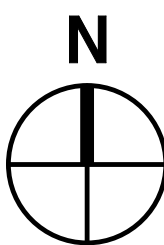


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E2.1.1

- 1 PROVIDE 120V 20A BRANCH CIRCUIT IN JUNCTION BOX ABOVE CEILING FOR ADA DOOR OPERATOR POWER SUPPLY.
- 2 INSTALL HANDICAP DOOR OPERATOR FURNISHED BY DIV 8. PROVIDE WIRING FROM DOOR POWER SUPPLY TO OPERATOR PER MANUFACTURER'S REQUIREMENTS, IN 1" C.


$$1/8'' = 1'-0''$$

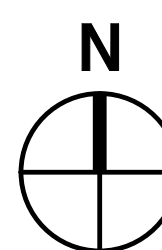
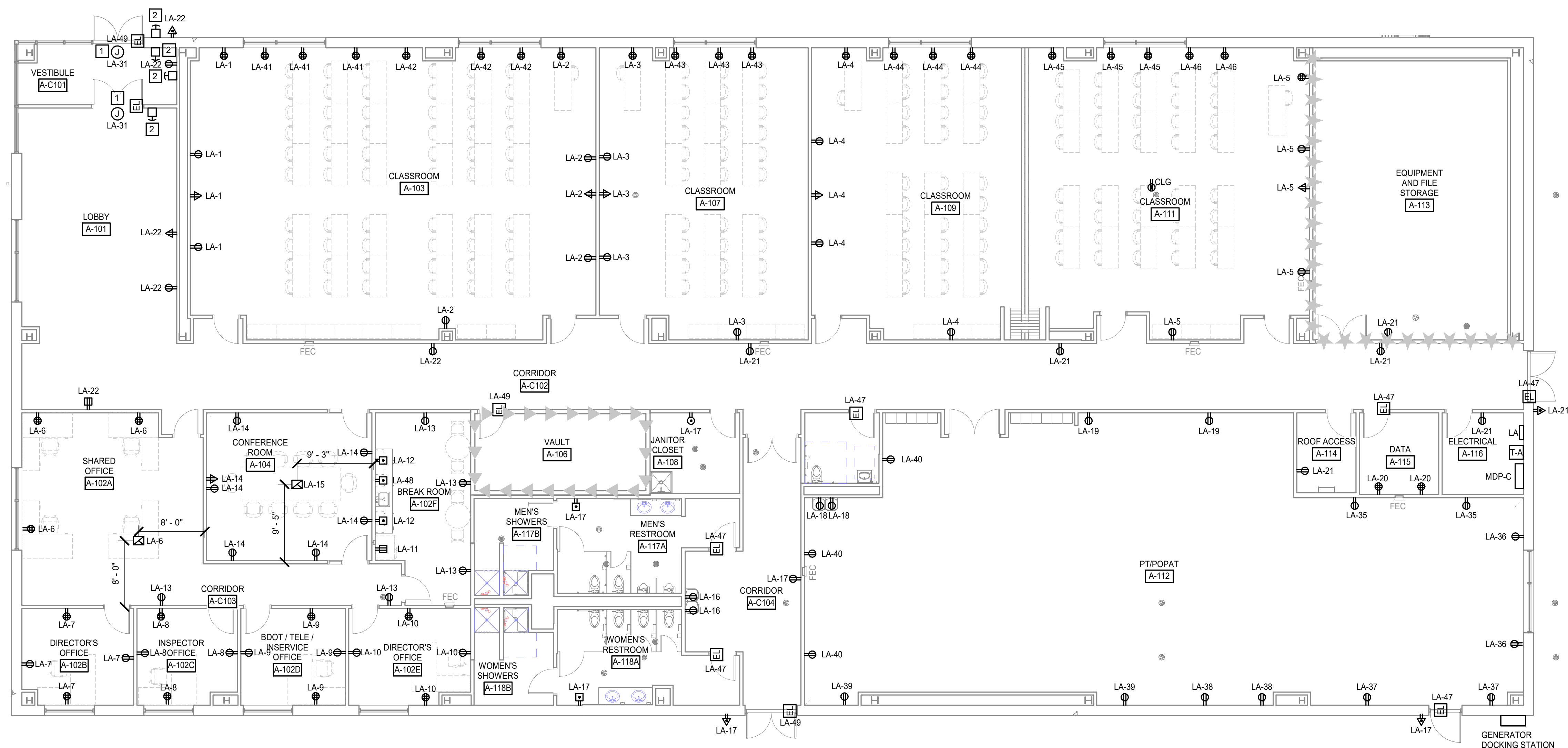


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E2.1.2

- 1 PROVIDE 120V 20A BRANCH CIRCUIT IN JUNCTION BOX ABOVE CEILING FOR ADA DOOR OPERATOR POWER SUPPLY.
- 2 INSTALL HANDICAP DOOR OPERATOR FURNISHED BY DIV 8. PROVIDE WIRING FROM DOOR POWER SUPPLY TO OPERATOR PER MANUFACTURER'S REQUIREMENTS, IN 1".

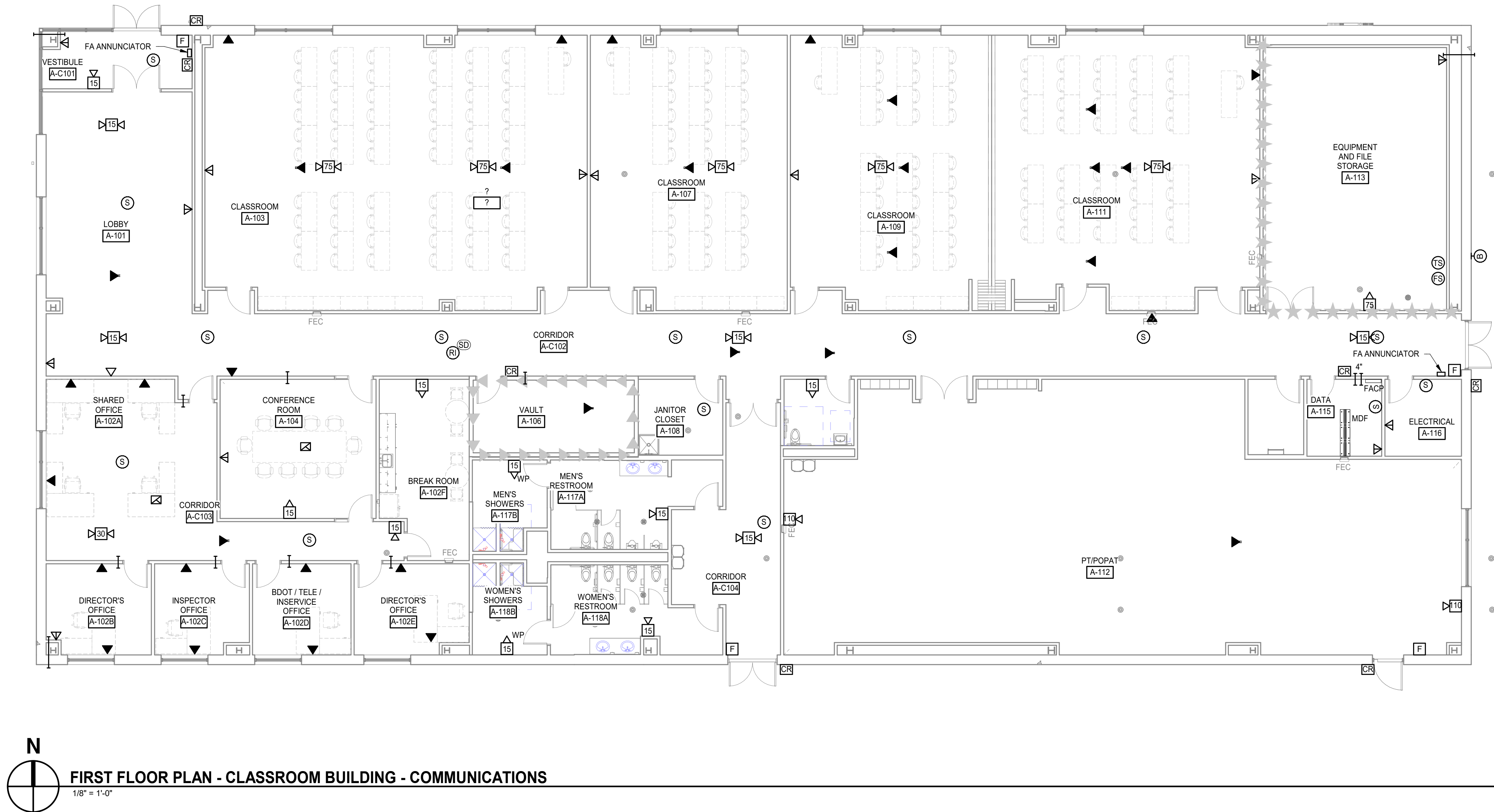


FIRST FLOOR PLAN - CLASSROOM BUILDING - POWER

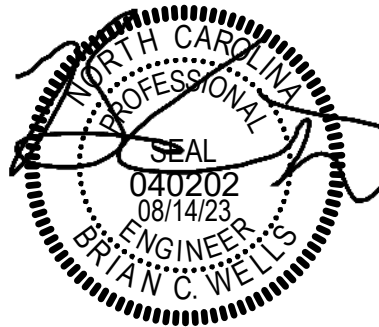
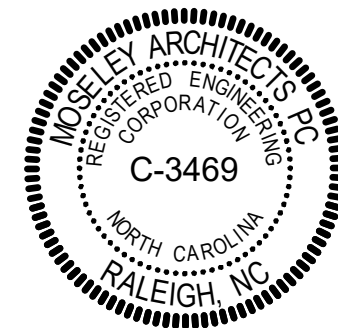
1/8" = 1'-0"

A
B
C
D
E
F
G
H
I
J

1 2 3 4 5 6 7 8 9 10

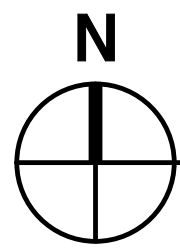


FIRST FLOOR PLAN - CLASSROOM BUILDING - COMMUNICATIONS
1/8" = 1'-0"



PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

9/1/2023 10:49:50 AM

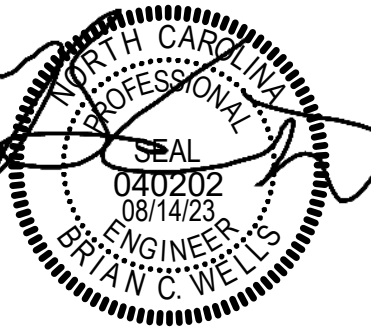
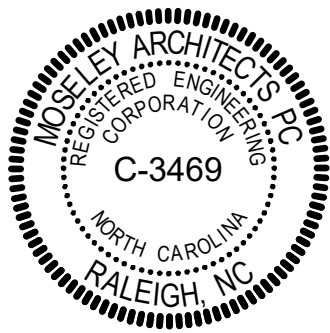


FIRST FLOOR PLAN - CLASSROOM BUILDING - MECHANICAL POWER

1/8" = 1'-0"



DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.4									
TAG	VOLTAGE	# POLES	LOAD	PANEL	CCT#	WIRE	DISCONNECTING MEANS	REMARKS	
DSS-1A	208 V	2	0.1 KVA	LA	25.27	(2) #10, (1) #12 E.G IN 3/4"	MOTOR RATED SWITCH	FED FROM OUTDOOR UNIT	
DWP-1	480 V	3	4.0 KVA	MDP-C	47.49.51	(3) #12, (1) #12 E.G IN 3/4"	COMBINATION DISC MOTOR STARTER		
EW-1	480 V	3	13.5 KVA	MDP-C	48.50.52	(3) #10, (1) #10 E.G IN 3/4"	30ANF NEMA 1 DISCONNECT		
MAIN BAS PANEL	120 V	1	0.1 KVA	LA	29	(2) #12, (1) #12 E.G IN 3/4"	N/A		
RCP-1	120 V	1	0.5 KVA	LA	33	(2) #12, (1) #12 E.G IN 3/4"	MANUAL MOTOR STARTER		
TU1-01	480 V	3	8.0 KVA	MDP-C	18.20.22	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-02	277 V	1	3.0 KVA	MDP-C	14	(2) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-03	277 V	1	3.0 KVA	MDP-C	16	(2) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-04	277 V	1	3.0 KVA	MDP-C	5	(2) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-05	277 V	1	1.9 KVA	MDP-C	2	(2) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-06	277 V	1	1.3 KVA	MDP-C	1	(2) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-07	480 V	3	8.0 KVA	MDP-C	23.25.27	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-08A	480 V	3	9.0 KVA	MDP-C	36.38.40	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-08B	480 V	3	9.0 KVA	MDP-C	41.43.45	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-09	480 V	3	6.0 KVA	MDP-C	17.19.21	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-10	480 V	3	8.0 KVA	MDP-C	24.26.28	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-11	480 V	3	8.0 KVA	MDP-C	29.31.33	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-12	480 V	3	8.0 KVA	MDP-C	30.32.34	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-13	480 V	3	8.0 KVA	MDP-C	35.37.39	(4) #12, (1) #12 E.G IN 3/4"	BY DIV 23		
TU1-14	480 V	3	11.0 KVA	MDP-C	42.44.46	(4) #10, (1) #10 E.G IN 3/4"	BY DIV 23		



PUBLIC SAFETY TRAINING CENTER

SCO #19-21198-01B
ALAMANCE COMMUNITY COLLEGE
2661 SANDY CROSS ROAD, BURLINGTON, NC 27217

PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

CLASSROOM BUILDING -
MECHANICAL POWER

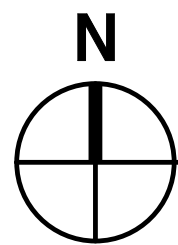
E2.1.4

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MOSELEYARCHITECTS.COM

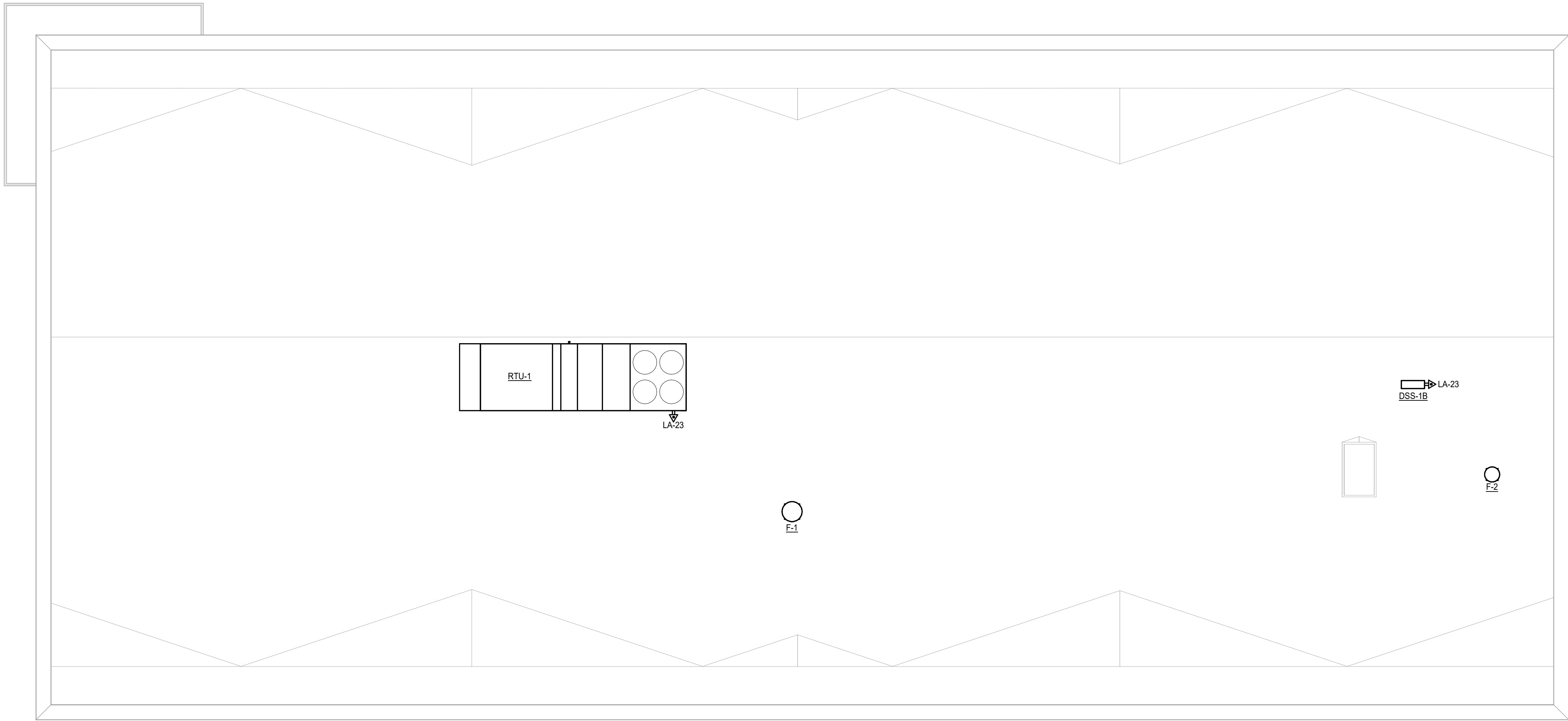
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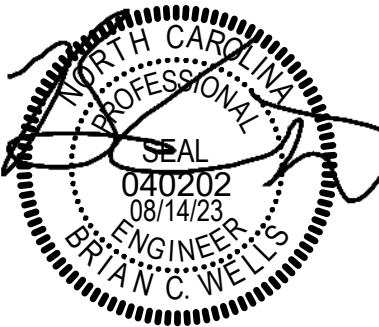
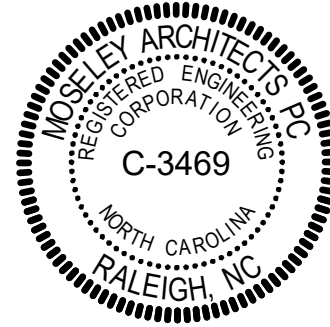
CLASSROOM BUILDING - ROOF PLAN

1/8" = 1'-0"



DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.1.5							
TAG	VOLTAGE	# POLES	LOAD	PANEL	CCTN	WIRE	DISCONNECTING MEANS
DSS-1B	208 V	2	1.8 kVA	LA	25,27	(2) #10, (1) #10 E.G. IN 3/4"	30A/NF NEMA 3R DISCONNECT
F-1	120 V	1	1.2 kVA	LA	34	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23
F-2	120 V	1	0.5 kVA	LA	32	(2) #12, (1) #12 E.G. IN 3/4"	BY DIV 23
RTU-1	480 V	3	90.9 kVA	MDP-C	11,13,15	(3) #10, (1) #6 E.G. IN 2"	BY DIV 23

GENERAL NOTES
A. MOUNT ROOF RECEPTACLES ON THE ROOF CURBS. DO NOT MOUNT TO UNITS



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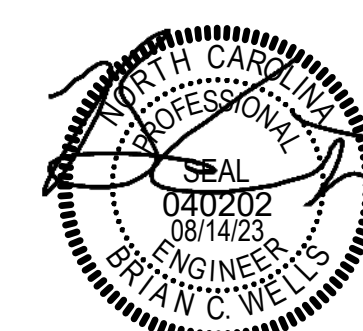
PROJECT NO: 600646	
DATE: AUGUST 14, 2023	
REVISIONS	
DATE	DESCRIPTION

CLASSROOM BUILDING -
ROOF PLAN

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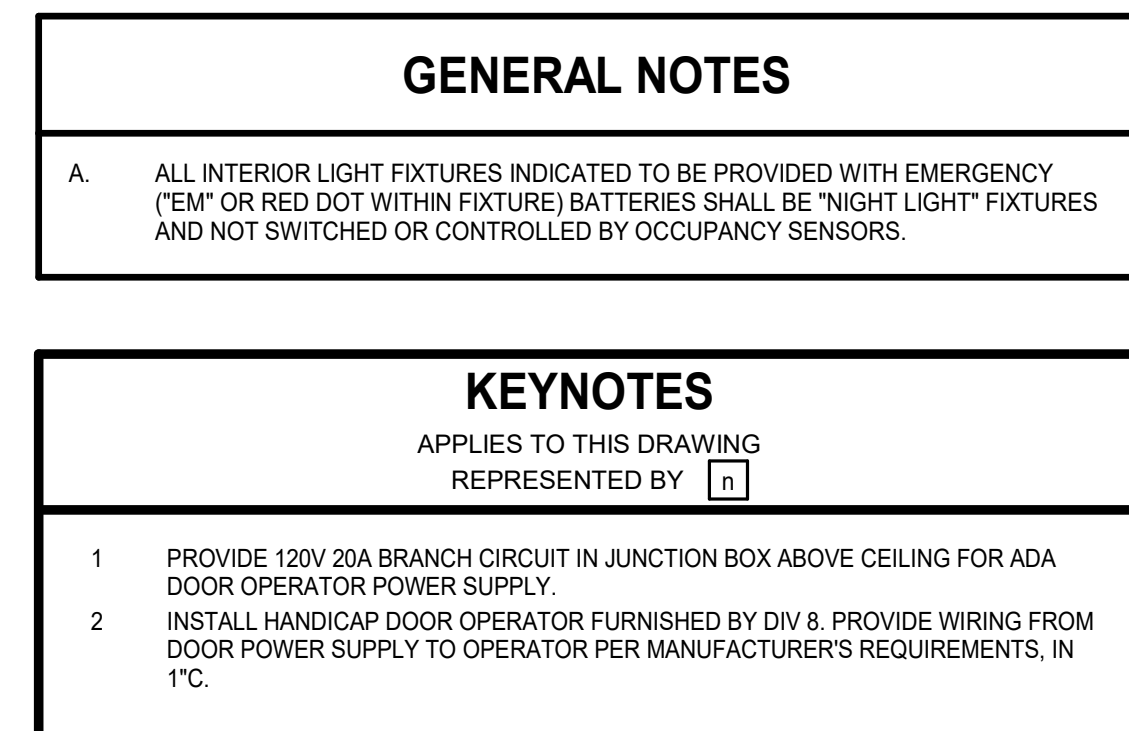
E2.1.5



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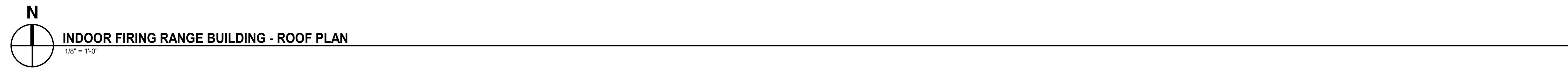
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E2.2.1

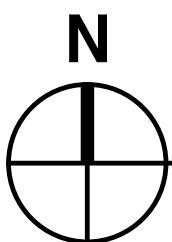


E2.2.2

DIV 23 ELECTRICAL CONNECTION SCHEDULE E2.2.2									
TAG	VOLTAGE	POLES	LOAD	PANEL	CT#	WIRE	DISCONNECTING MEANS		REMARKS
ACP-1	480 V	3	8.3 KVA	MDP-R	24.26.28	(3)#12, (1)#12 E G IN 34°C	30ANF NEMA 1 DISCONNECT		
DSS-2A	208 V	2	1.0 KVA	LB	26.28	(2)#12, (1)#12 E G IN 34°C	MOTOR RATED SWITCH		FED FROM OUTDOOR UNIT
DSS-2B	208 V	2	1.8 KVA	LB	26.28	(2)#12, (1)#12 E G IN 34°C	30ANF NEMA 3R DISCONNECT		
DWP-2	480 V	3	2.0 KVA	MDP-R	30.32.34	(3)#12, (1)#12 E G IN 34°C	COMBINATION DISC MOTOR STARTER		
EWB-2	480 V	3	6.0 KVA	MDP-R	19.21.23	(3)#12, (1)#12 E G IN 34°C	30ANF NEMA 1 DISCONNECT		
F-3	480 V	3	64.0 KVA	LB	29	(1)#20, (1)#8 E G IN 2°C	COMBINATION DISC SOFT-MOTOR STARTER NEMA 3R		
F-4	120 V	1	0.7 KVA	LB	29	(2)#12, (1)#12 E G IN 34°C	MANUAL MOTOR STARTER NEMA 3R		
F-5	120 V	1	0.8 KVA	LB	30	(2)#12, (1)#12 E G IN 34°C	MANUAL MOTOR STARTER NEMA 3R		
MAIN BAS PANEL	120 V	1	0.1 KVA	LB	24	(2)#12, (1)#12 E G IN 34°C	N/A		
RTU2-FANS	480 V	3	76.3 KVA	MDP-R	7.5.11	(2)#10, (1)#6 E G IN 1-12°C	BY DIV 23		
RTU2-HEATER	480 V	3	500.0 KVA	MDP-R	4.8.9	(9) 500K, (3) #20 E G IN (3) 4°C	BY DIV 23		
RTU-3	480 V	3	22.1 KVA	MDP-R	13.15.17	(3)#10, (1)#10 E G IN 34°C	BY DIV 23		
RTU-4	480 V	3	39.8 KVA	MDP-R	16.18.20	(3)#6, (1)#8 E G IN 1°C	BY DIV 23		

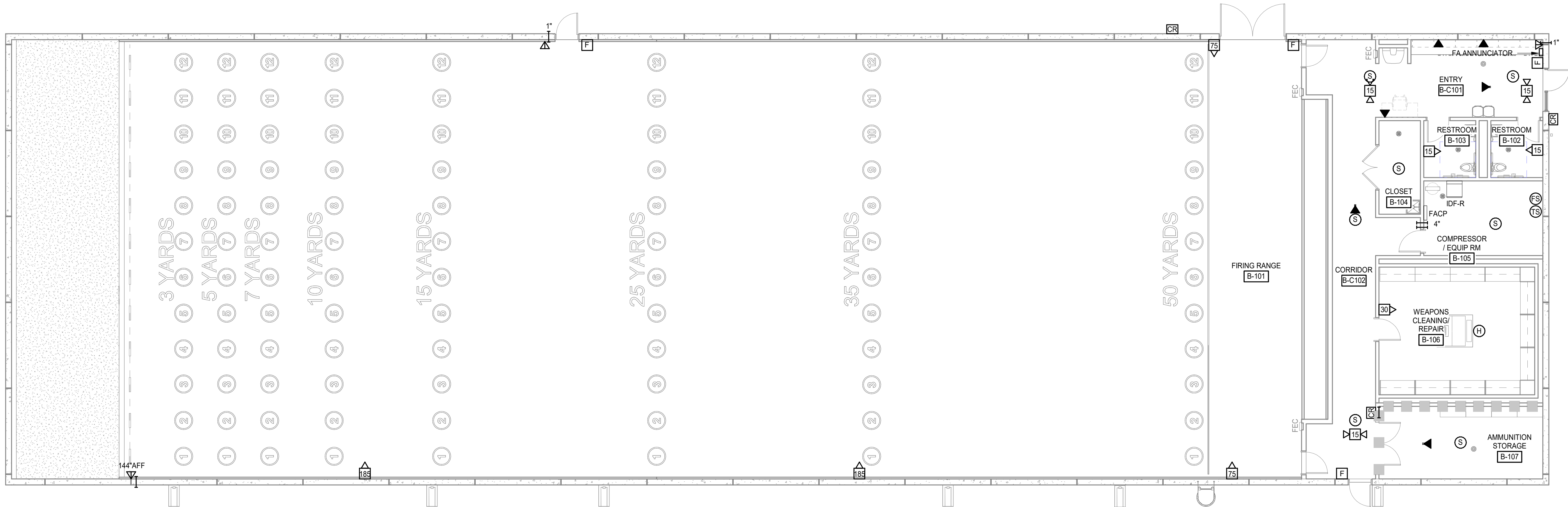


A B C D E F G H I J



FIRST FLOOR PLAN - INDOOR FIRING RANGE BUILDING - COMMUNICATIONS

1/8" = 1'-0"

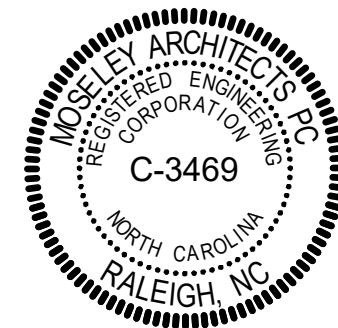


PROJECT NO:	600646
DATE:	AUGUST 14, 2023
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ALTERNATE NO. 1 - INDOOR
FIRING RANGE BUILDING -
COMMUNICATIONS

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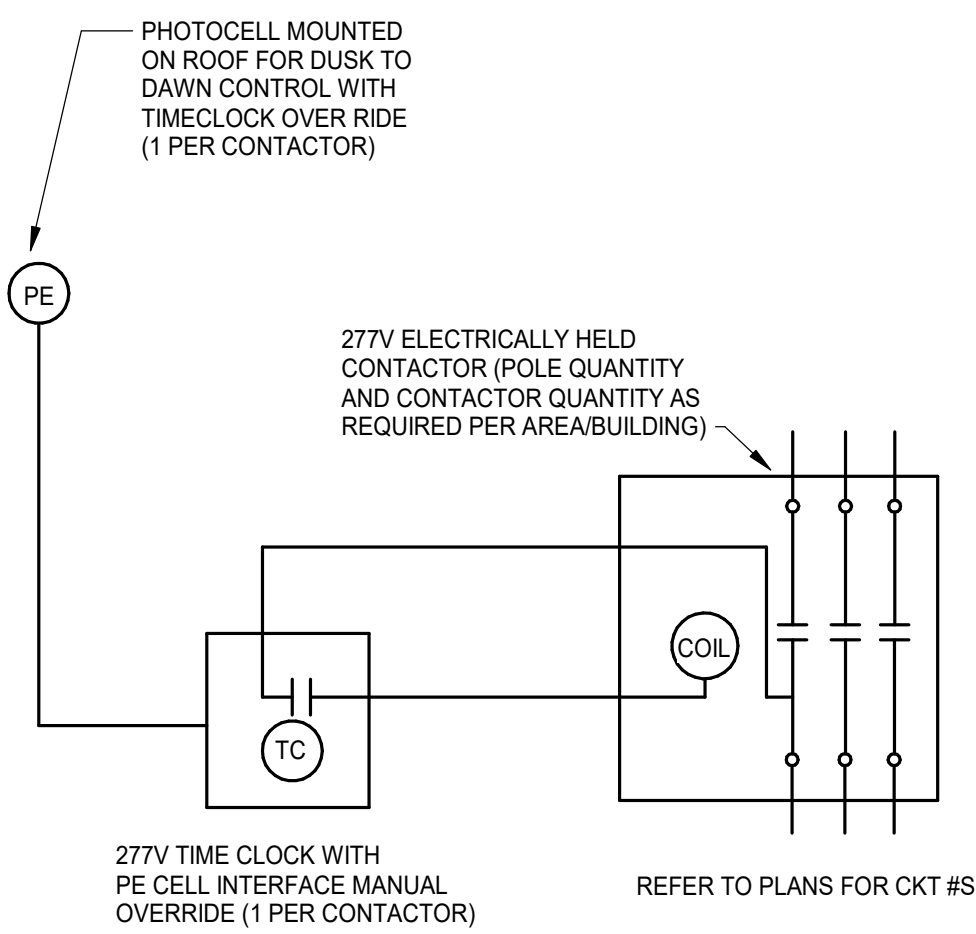
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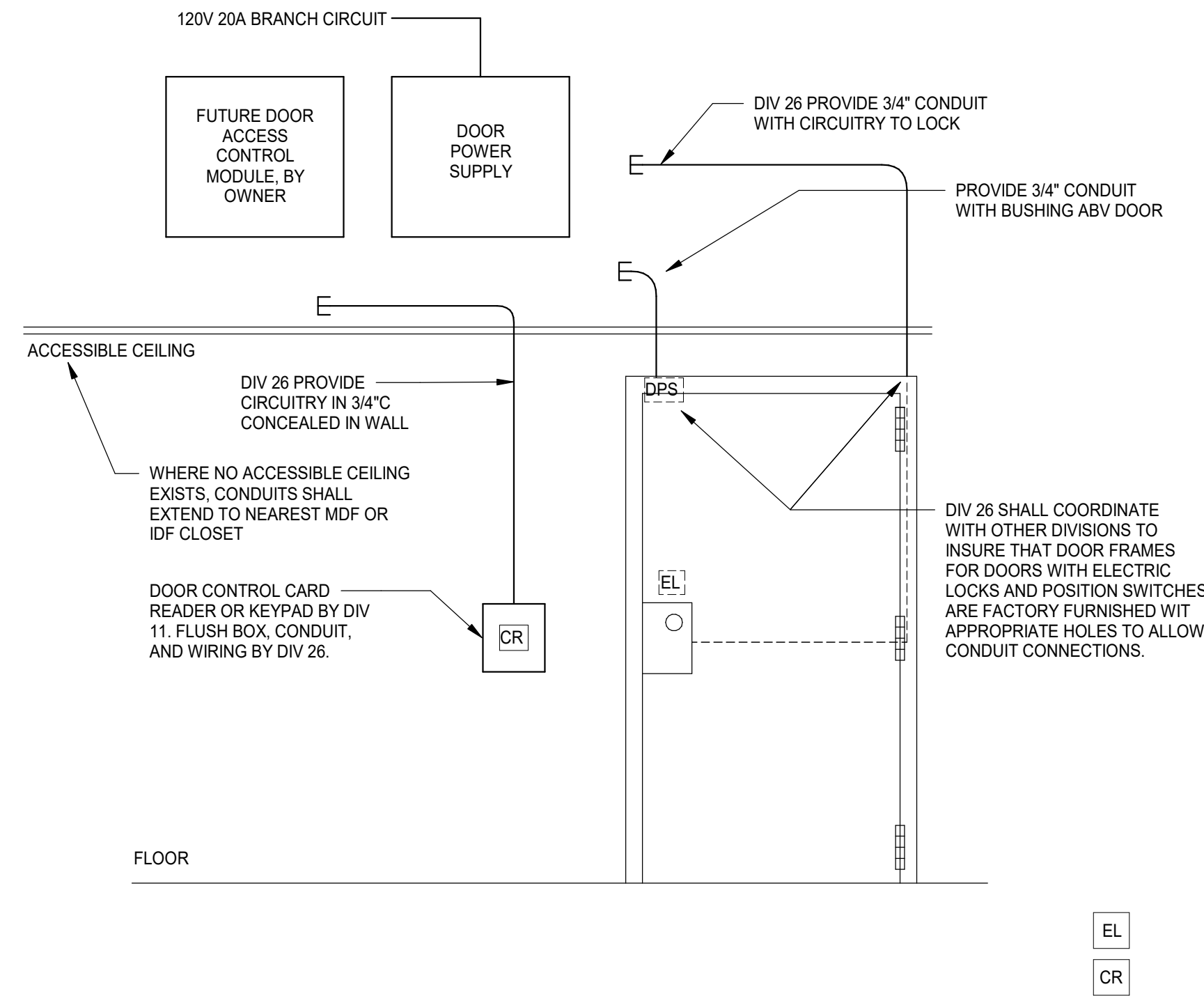
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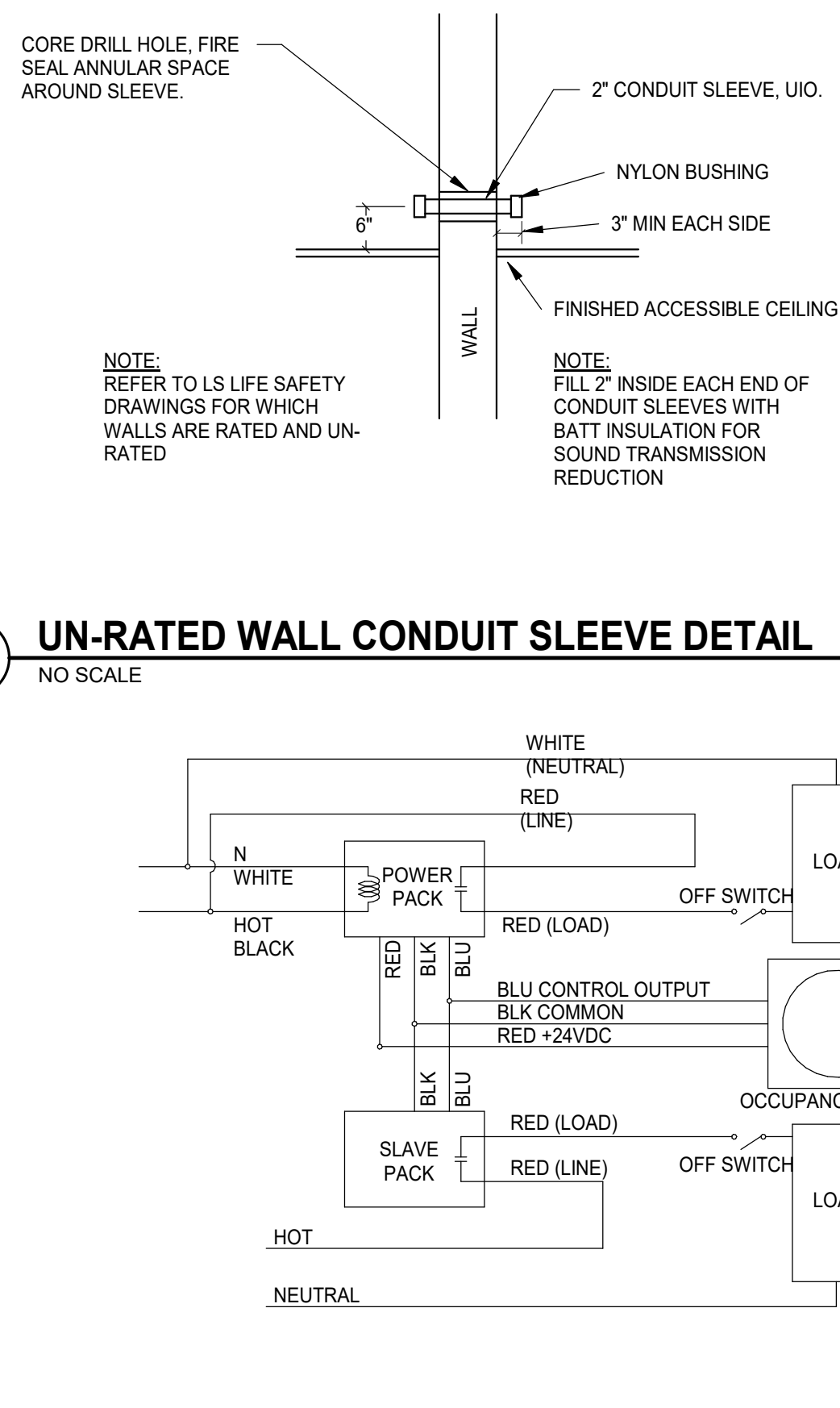
1 EXTERIOR LIGHTING CONTACTOR DETAIL
NO SCALE



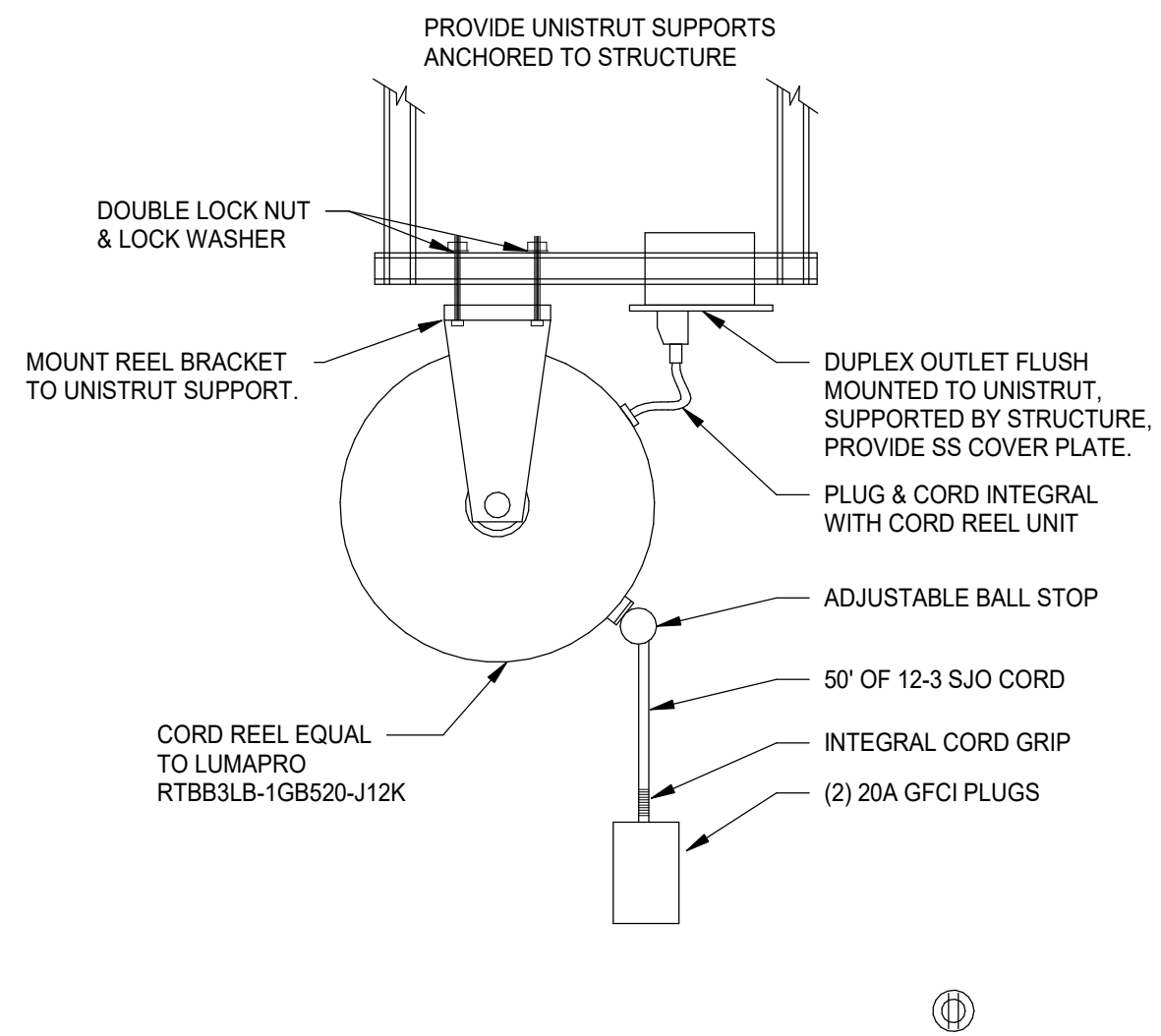
2 DOOR ACCESS CONTROL INFRASTRUCTURE DETAIL
NO SCALE



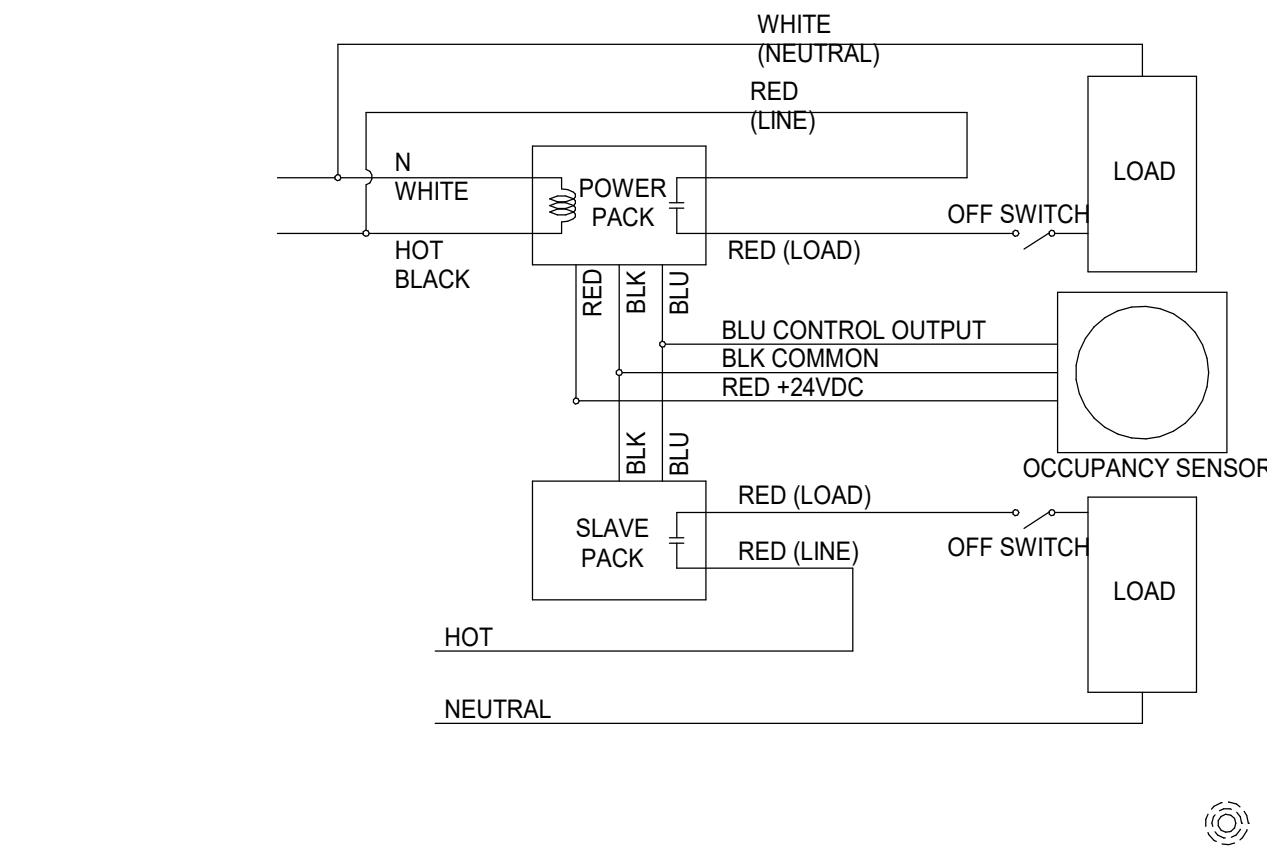
3 UN-RATED WALL CONDUIT SLEEVE DETAIL
NO SCALE



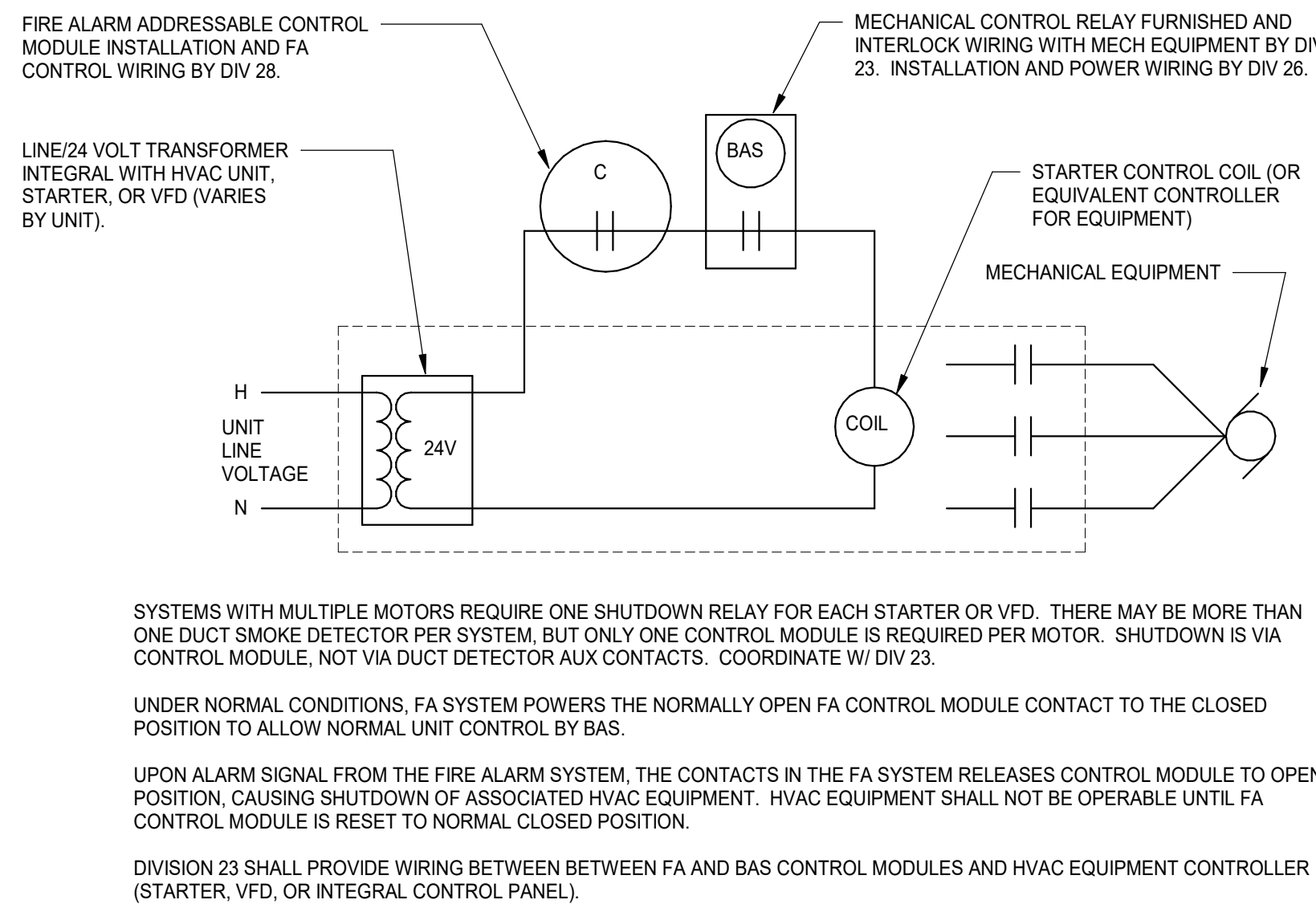
5 CORD REEL ASSEMBLY DETAIL
NO SCALE



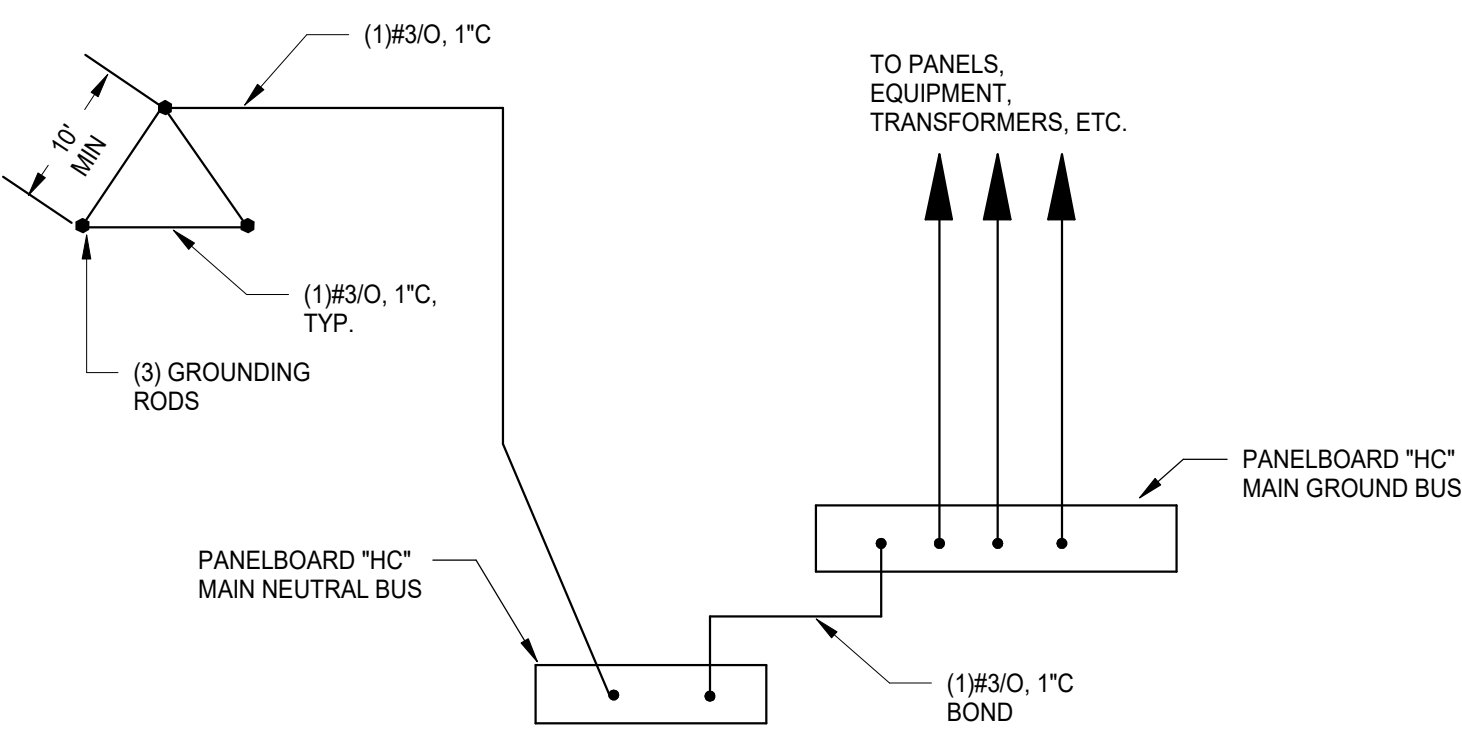
4 OCCUPANCY SENSOR DIAGRAM AUXILIARY RELAY PACK SENSOR
NO SCALE



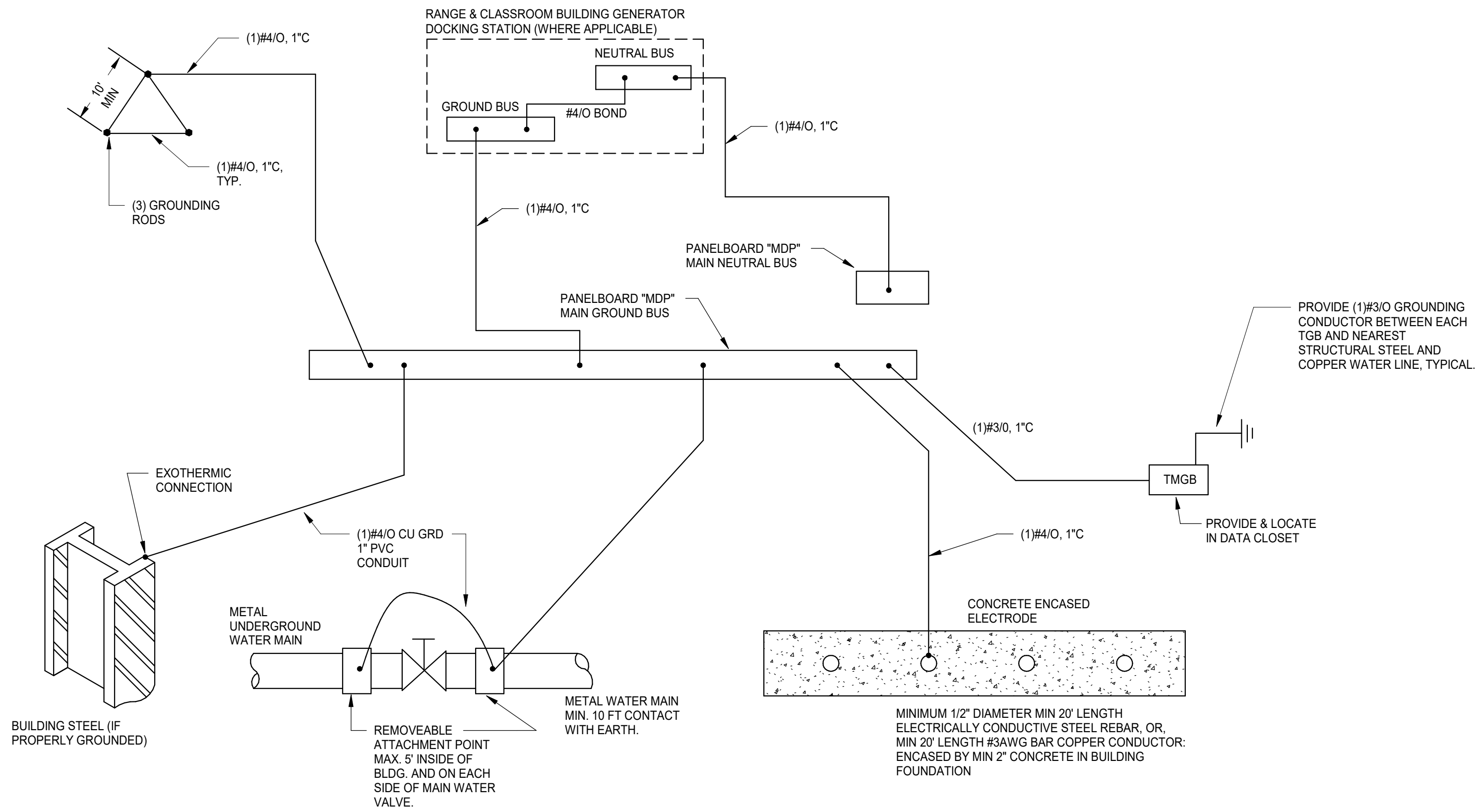
6 FIRE ALARM HVAC UNIT SHUTDOWN WIRING DIAGRAM
NO SCALE



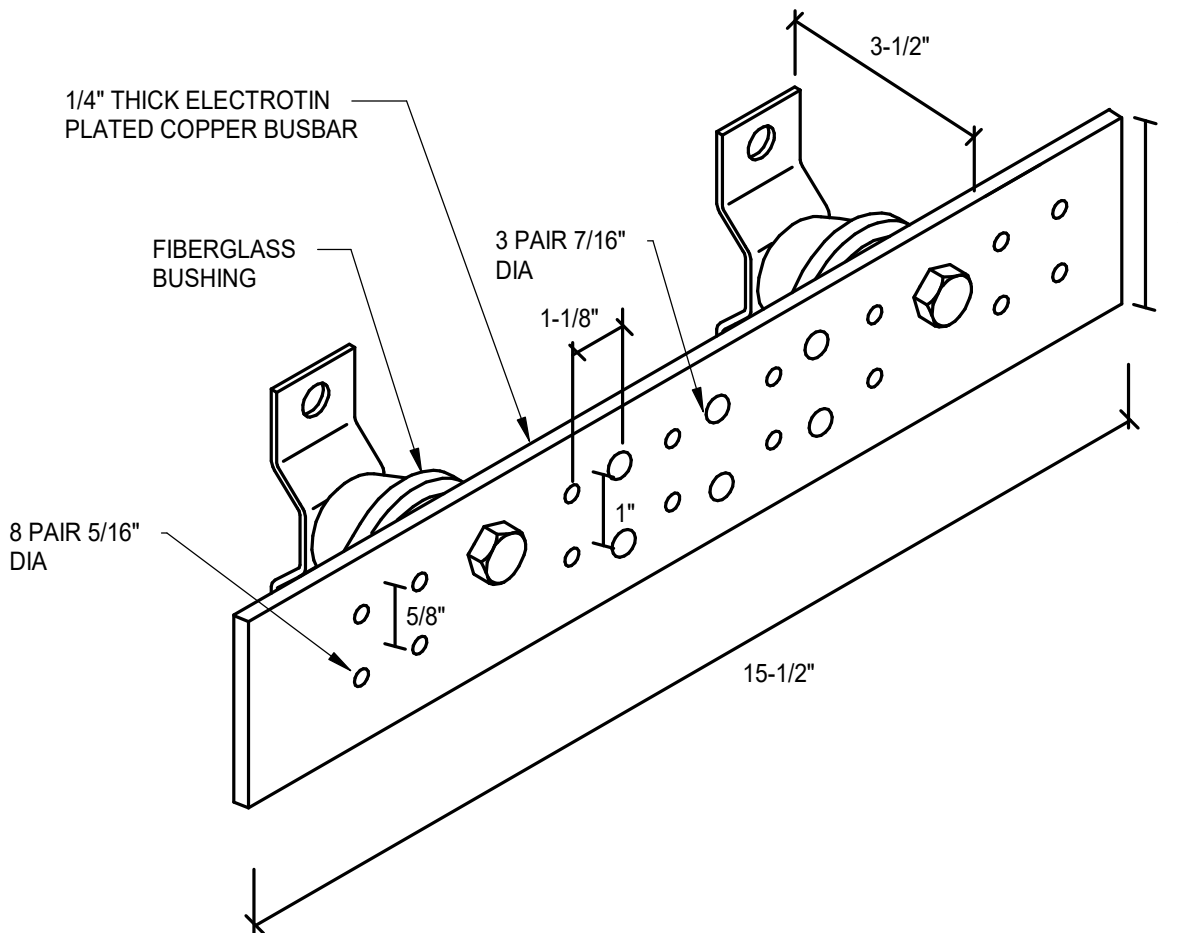
7 SITE SERVICE GROUNDING SYSTEM DIAGRAM
NO SCALE



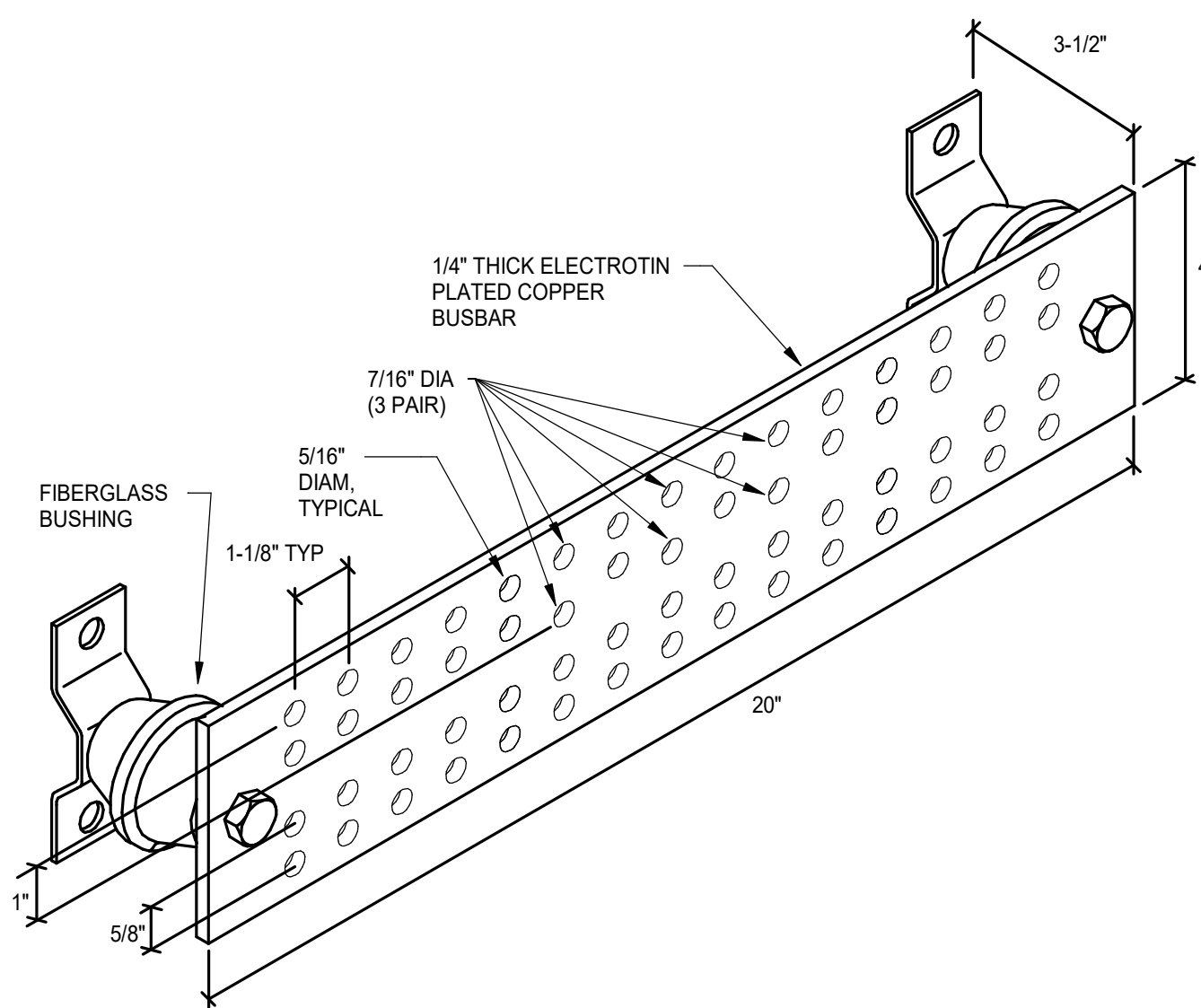
8 CLASSROOM & RANGE BUILDING GROUNDING SYSTEM DIAGRAM
NO SCALE



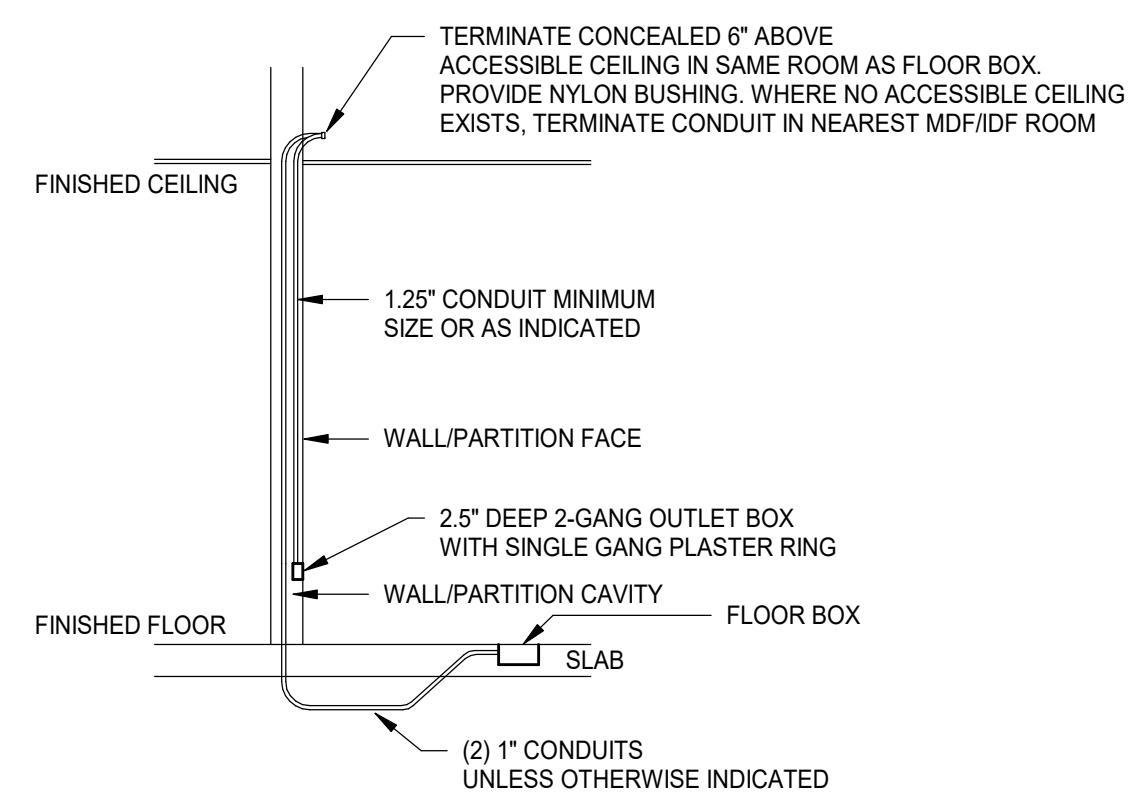
9 TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NO SCALE



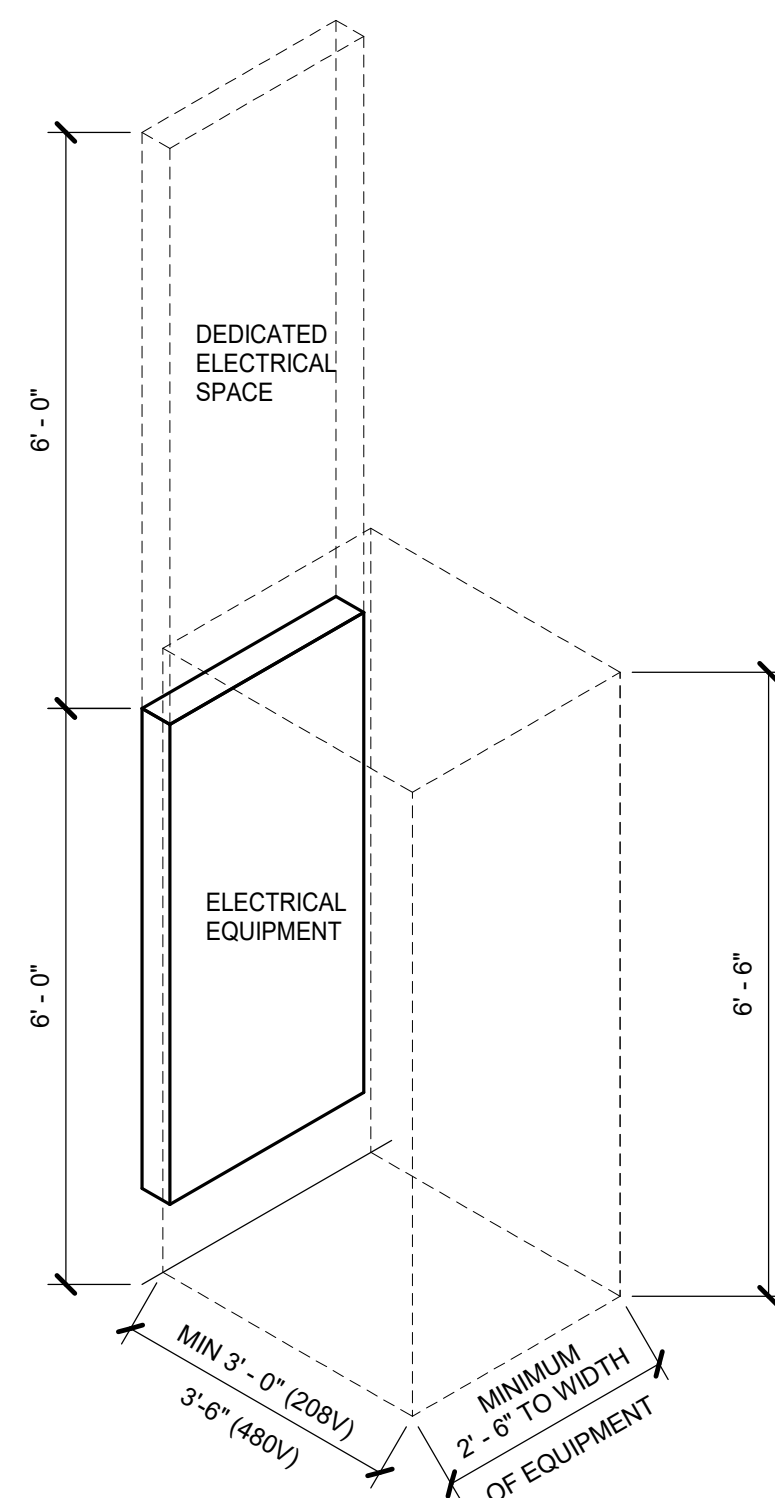
10 TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB) DETAIL
NO SCALE



11 TELECOMMUNICATIONS OUTLET CONDUIT DETAIL
NO SCALE



12 EQUIPMENT CLEARANCES
NO SCALE

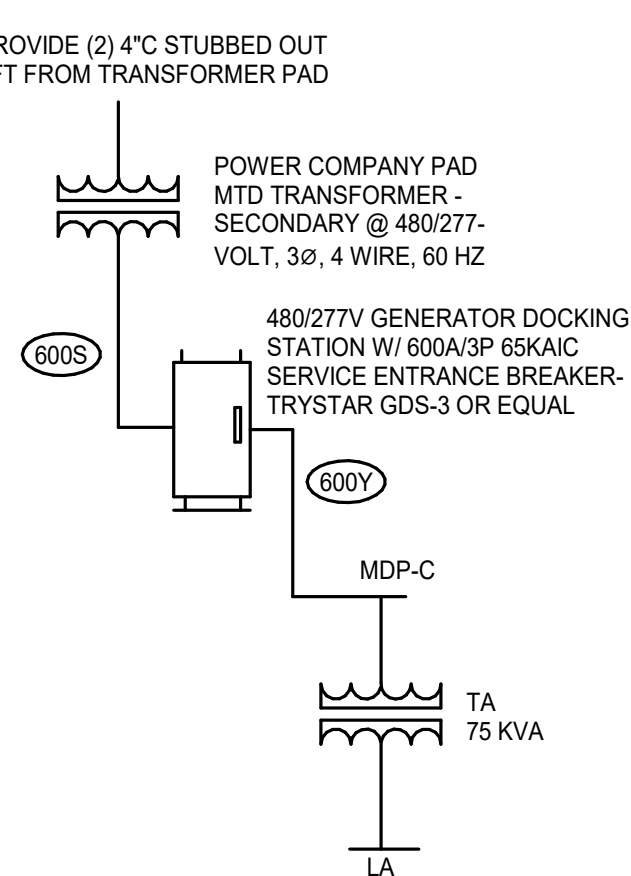


LIGHT FIXTURE SCHEDULE										
FIXTURE			LAMP			MOUNTING		OPTIONS		
TYPE	DESCRIPTION	MANUFACTURER	SERIES NO.	VOLTAGE	WATTAGE	LUMENS	TYPE	COLOR TEMP.		
A1	2X4 ARCHITECTURAL TROFFER	CURRENT LIGHTING	LCA24	277 V	75	7362 lm	LED	4000 K	RECESSED	1
A2	2X4 ARCHITECTURAL TROFFER	CURRENT LIGHTING	LCA24	277 V	36	4772 lm	LED	4000 K	RECESSED	1
A3	2X2 ARCHITECTURAL TROFFER	CURRENT LIGHTING	LCA24	277 V	26	4794 lm	LED	4000 K	RECESSED	1
B	WALL LIGHT	CURRENT LIGHTING	EVEKIA	277 V	38	4016 lm	LED	4000 K	WALL	1
C1	DOWNLIGHT	ALPHABET	NU4RD	277 V	22	1730 lm	LED	4000 K	RECESSED	1
C2	CANOPY LIGHT	CURRENT LIGHTING	SRT2-65 SERIES	277 V	65	2000 lm	LED	4000 K	RECESSED	1
D	VANDAL RESISTANT TROFFER	LITHONIA LIGHTING	2VRL	277 V	59	6440 lm	LED	4000 K	RECESSED	1
L1	STRIP LIGHT	CURRENT LIGHTING	LCL	277 V	42	5329 lm	LED	4000 K	PENDANT	1
R1	RANGE LINEAR FIXTURE	LUMENCOVE	LCS2	277 V	96	9600 lm	LED	4000 K	SURFACE 180 DEG ROTATION	1
R2	RANGE LINEAR FIXTURE RGBW	LUMENCOVE	LCS2	277 V	96	9600 lm	LED	4000 K	SURFACE 180 DEG ROTATION	1
W	WALL PACK	CURRENT LIGHTING	LNC2	277 V	37	4025 lm	LED	4000 K	WALL	1
X1	EXIT SIGN	CURRENT LIGHTING	GE	277 V	1		LED	4000 K	UNIVERSAL	1

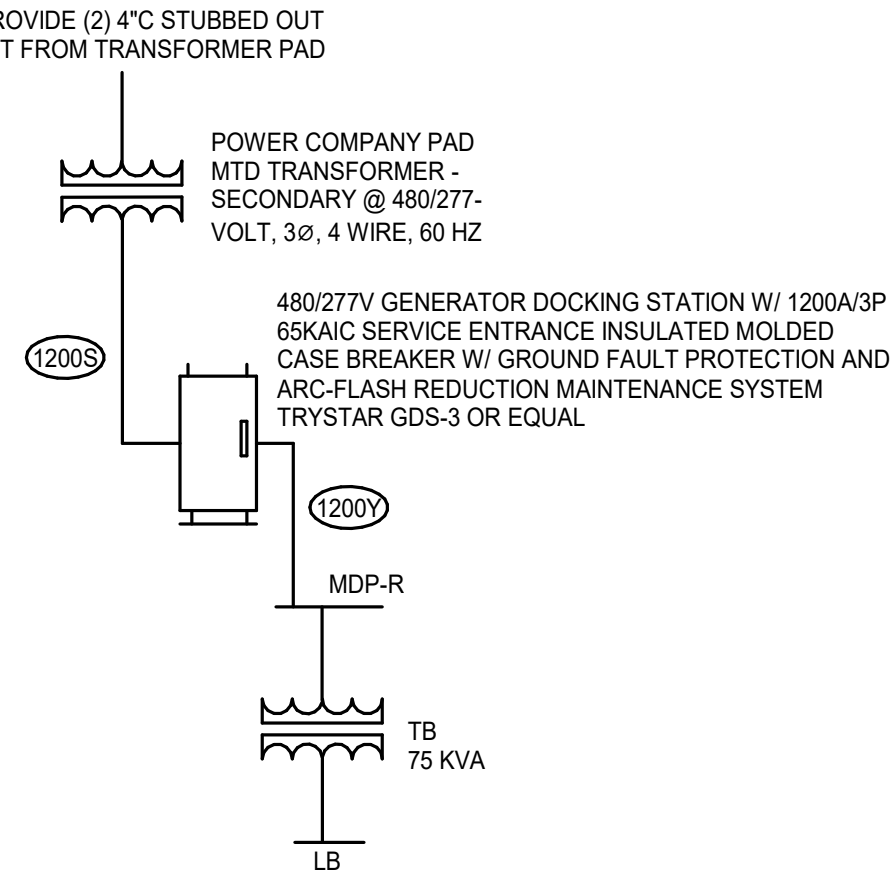
GENERAL NOTES:
A. ALL FIXTURES LISTED IN SCHEDULE ARE LISTED AS OR EQUAL. SUBMIT VARYING LIGHTING PACKAGE TO ARCHITECT NO LATER THAN 7 DAYS PRIOR TO BID DATE FOR APPROVAL.

OPTIONS:
1. 90 MIN EMERGENCY BATTERY PACK WHERE INDICATED AS EITHER "EM" ON FLOOR PLANS AND/OR WHERE INDICATED ON THIS SCHEDULE

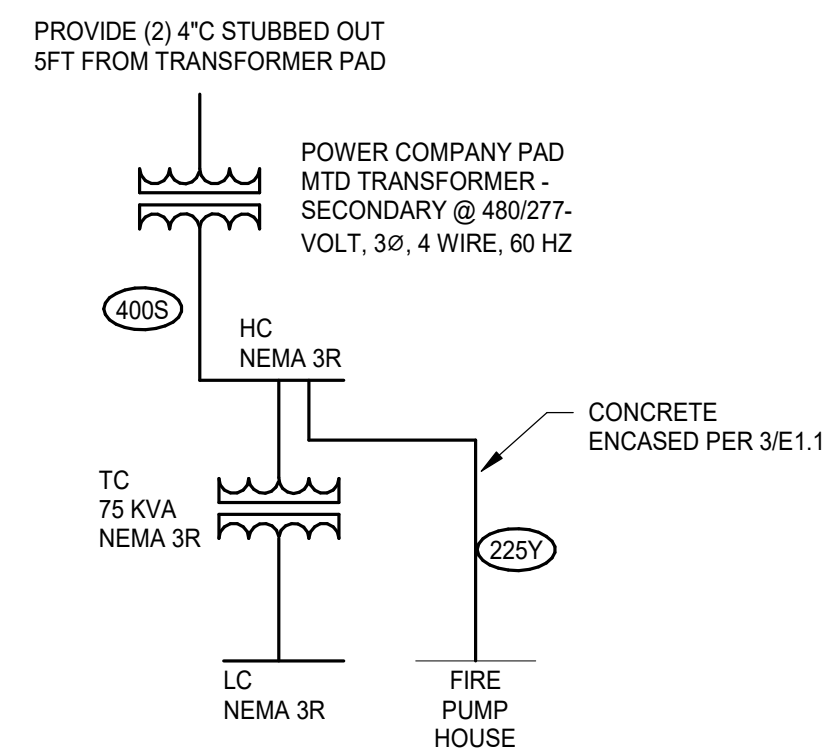
1 CLASSROOM BUILDING ONE LINE DIAGRAM
NO SCALE



2 SHOOTING RANGE BUILDING ONE LINE DIAGRAM
NO SCALE



3 SITE PLAN - ONE LINE DIAGRAM
NO SCALE



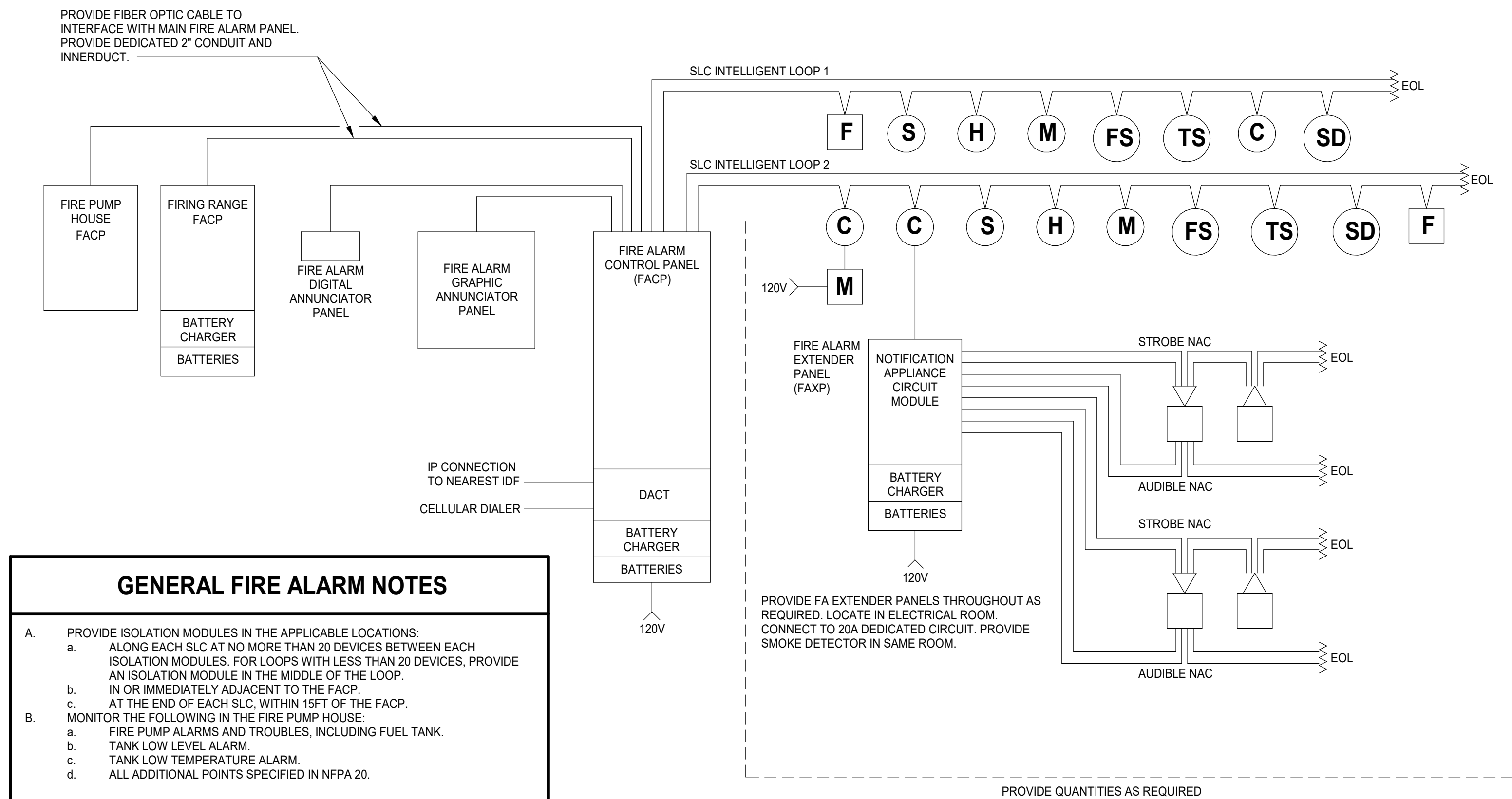
TRANSFORMER SCHEDULE						
KVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 KVA	LINEAR	480V-3Ø	208Y/120V	3#10, #10 G, 3/4" C.	4#4, #6 G, 1-1/4" C.	#8
30 KVA	LINEAR	480V-3Ø	208Y/120V	3#6, #10 G, 1" C.	4#1, #6 G, 1-1/2" C.	#6
45 KVA	LINEAR	480V-3Ø	208Y/120V	3#4, #6 G, 1-1/4" C.	4#10, #6 G, 2" C.	#6
75 KVA	LINEAR	480V-3Ø	208Y/120V	3#1, #6 G, 1-1/2" C.	4-250KCM, #2 G, 2-1/2" C.	#2
112.5 KVA	LINEAR	480V-3Ø	208Y/120V	3#20, #6 G, 2" C.	(2 SETS) 4-300CM, #2 G, 2-1/2" C.	#2
150 KVA	LINEAR	480V-3Ø	208Y/120V	3#40, #4 G, 2-1/2" C.	(2 SETS) 4-250KCM, #20 G, 3" C.	#2/0
225 KVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#20, #3 G, 2" C.	(3 SETS) 4-350KCM, #20 G, 3" C.	#2/0
300 KVA	LINEAR	480V-3Ø	208Y/120V	(2 SETS) 3#40, #2 G, 2-1/2" C.	(4 SETS) 4-350KCM, #40 G, 4" C.	#3/0
500 KVA	LINEAR	480V-3Ø	208Y/120V	(3 SETS) 3-350KCM, #10 G, 4" C.	(6 SETS) 4-350KCM, 300KCM G, 4" C.	#3/0

COPPER FEEDER SCHEDULE			
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN/THWN	MINIMUM CONDUIT SIZE
30	1	3#10, #10 G	3/4"
35	1	3#8, #10 G	3/4"
40	1	3#8, #10 G	3/4"
45	1	3#6, #10 G	1"
50	1	3#6, #10 G	1"
60	1	3#4, #10 G	1"
70	1	3#4, #8 G	1 1/4"
80	1	3#3, #8 G	1 1/4"
90	1	3#2, #8 G	1 1/4"
100	1	3#1, #8 G	1 1/4"
110	1	3#2, #6 G	1 1/2"
125	1	3#1, #6 G	1 1/2"
150	1	3#10, #6 G	2"
175	1	3#20, #6 G	2"
200	1	3#30, #6 G	2"
225	1	3#40, #4 G	2 1/2"
250	1	3-250KCM, #4 G	2 1/2"
300	1	3-350KCM, #4 G	2 1/2"
350	2	3#20, #3 G	2"
400S	2	4#3/0	2"
450	2	3#40, #2 G	2 1/2"
500	2	3-250KCM, #2 G	2 1/2"
600S	2	4-350KCM	3"
700	2	3-500KCM, #10 G	4"
800S	3	3-350KCM, #10 G	3"
1000	3	3-500KCM, #20 G	4"
1200S	4	4-350KCM	3"
1600	5	3-500KCM, #40 G	4"

NOTES:
1. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
2. FEEDER SIZES BASED ON TABLE 310.15(B)(16), 75° C.
3. SIZES ADJUSTED PER NEC 110.14.

ALAMANCE COMMUNITY COLLEGE PUBLIC SAFETY TRAINING CENTER FIRE ALARM INPUT/OUTPUT MATRIX		CONTROL UNIT ANNUNCIATION								NOTIFICATION / ACTION								
		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
1	MANUAL PULL STATION	X	X	X						X	X	X	X				X	
2	SMOKE DETECTOR	X	X	X						X	X	X	X				X	
3	SMOKE DETECTOR - ELEVATOR FUNCTION	X	X	X						X	X	X	X			X	X	
4	HEAT DETECTOR - ELEVATOR FUNCTION	X	X	X						X	X	X	X			X	X	
5	FLOW SWITCH - ELEVATOR FUNCTION	X	X	X						X	X	X	X			X	X	
6	DUCT SMOKE DETECTOR	X	X	X						X	X	X	X				X	X
7	HEAT DETECTOR	X	X	X						X	X	X	X				X	
8	KITCHEN HOOD FIRE SUPPRESSION SYSTEM MONITOR	X	X	X						X	X	X	X				X	
9	SPRINKLER SYSTEM WATERFLOW	X	X	X						X	X	X	X				X	
10	SPRINKLER VALVE TAMPER SWITCH				X	X				X				X				
11	MONITOR MODULE - ELEVATOR SHUNT POWER FAULT				X	X				X		X	X					
12	MONITOR MODULE - GENERATOR FAILURE				X	X				X			X	X				
13	MONITOR MODULE - GENERATOR RUN						X	X	X			X		X				
14	FIRE ALARM AC POWER FAILURE						X	X	X			X				X		
15	FIRE ALARM SYSTEM LOW BATTERY						X	X	X			X				X	X	
16	FIRE ALARM OPEN CIRCUIT						X	X	X			X				X	X	
17	FIRE ALARM GROUND FAULT						X	X	X			X				X	X	
18	FIRE ALARM NOTIFICATION APPLIANCE CIRCUIT SHORT						X	X	X			X				X		
19	CARBON MONOXIDE DETECTOR				X	X				X				X				
20	BI-DIRECTIONAL AMPLIFIER LOSS OF AC POWER				X	X				X		X		X				
21	BI-DIRECTIONAL AMPLIFIER BATTERY CHARGER FAILURE				X	X				X		X		X				
22	BI-DIRECTIONAL AMPLIFIER ANTENNA FAILURE				X	X				X		X		X				
23	BI-DIRECTIONAL AMPLIFIER EF-EMITTING DEVICE FAILURE				X	X				X		X		X				
24	BI-DIRECTIONAL AMPLIFIER LOW BATTERY				X	X				X		X		X				
25	BI-DIRECTIONAL AMPLIFIER CRITICAL SYSTEM COMPONENT FAILURE				X	X				X		X		X				
26	BI-DIRECTIONAL AMPLIFIER COMMUNICATIONS LINK FAILURE				X	X				X		X		X				

GENERAL NOTES:
A. PROVIDE ALL INPUTS/OUTPUTS REQUIRED FOR FIRE PUMP IN COMPLIANCE WITH NFPA 20.

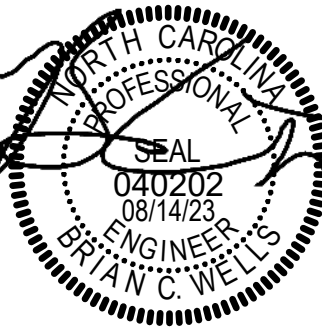
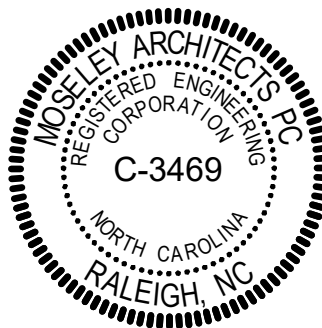


GENERAL FIRE ALARM NOTES

A. PROVIDE ISOLATION MODULES IN THE APPLICABLE LOCATIONS:
a. ALONG EACH SLC AT NO MORE THAN 20 DEVICES BETWEEN EACH ISOLATION MODULES. FOR LOOPS WITH LESS THAN 20 DEVICES, PROVIDE AN ISOLATION MODULE IN THE MIDDLE OF THE LOOP.
b. IN OR IMMEDIATELY ADJACENT TO THE FACP.
c. AT THE END OF EACH SLC, WITHIN 15FT OF THE FACP.

B. MONITOR THE FOLLOWING IN THE FIRE PUMP HOUSE:
a. FIRE PUMP ALARMS AND TROUBLES, INCLUDING FUEL TANK.
b. TANK LOW LEVEL ALARM.
c. TANK LOW TEMPERATURE ALARM.
d. ALL ADDITIONAL POINTS SPECIFIED IN NFPA 20.

4 FIRE ALARM RISER DIAGRAM
NO SCALE



PROJECT NO:	600646
DATE:	AUGUST 14, 2023
REVISIONS	
DATE	DESCRIPTION

PANELBOARD SCHEDULE LB										LOCATION: COMPRESSOR / EQUIP R...	FED FROM: T-B										
225 AMP MCB 120/208 Wye 3 PH 4 W										MOUNT: SURFACE	PANEL ASSEMBLY RATED (KAIC): 10 KAIC										
CKT	BRKR	POLE	LOAD			A	B	C	LOAD	POLE	BRKR	CKT									
1	20 A	1	REC B-C101 (GP)			0.4	1.3		REC B-C101, B-103, B-102	1	20 A	2									
3	20 A	1	REC B-C102, B-101, B-105, B-107				1.1	0.2	RECEPTACLES WEAPONS...	1	20 A	4									
5	20 A	1	RECEPTACLES WEAPONS...					0.2	0.2	RECEPTACLES WEAPONS...	1	20 A	6								
7	20 A	1	REC B-106			0.4	0.2		REC EXT, F-3	1	20 A	8									
9	20 A	1	CORD REEL				0.4	0.4	CORD REEL	1	20 A	10									
11	20 A	1	CORD REEL					0.4	REC IDF-R	1	20 A	12									
13	20 A	1	RECEPTACLES ENTRY B-C101			0.4	0.4		REC IDF-R	1	20 A	14									
15	20 A	1	REC B-106				0.2	0.2	REC B-106	1	20 A	16									
17	20 A	1	REC B-106					0.2	0.2	REC B-106	1	20 A	18								
19	20 A	1	REC B-106			0.2	0.2		REC B-106	1	20 A	20									
21	20 A	1	REC B-106				0.2	0.2	REC B-106	1	20 A	22									
23	20 A	1	FACP (L) (SPD)					0.0	0.1	BAS PANEL	1	20 A	24								
25	20 A	1	REC EXTERIOR			0.7	1.0		DSS-2A & 2B	2	15 A	26									
27	20 A	1	RECEPTACLES ENTRY B-C101				0.4	1.0				28									
29	20 A	1	F-4					0.7	0.8	F-5	1	20 A	30								
31	20 A	1	ACCESS CONTROL			0.3	0.2		REC TARGET SYSTEM	1	20 A	32									
33	20 A	1	REC TARGET SYSTEM				0.2	0.2	REC TARGET SYSTEM	1	20 A	34									
35	20 A	1	REC TARGET SYSTEM					0.2	0.0	SPARE	1	20 A	36								
37	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	38									
39	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	40									
41	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	42								
43	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	44									
45	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	46									
47	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	48								
49	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	50									
51	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	52									
53	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	54								
55	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	56									
57	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	58									
59	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	60								
						5 kVA	4 kVA	3 kVA													
						47 A	38 A	27 A													
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL. (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL. (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.																					
Load Classification										Connected Load			Demand Factor			Estimated Demand			Panel Totals		
INTERIOR LIGHTING										0 VA			0.00%			0 VA			Total Conn. Load: 13.0 kVA Total Est. Demand: 12.3 kVA Total Conn. Current: 36 A Total Est. Demand... 34 A		
EXTERIOR LIGHTING										0 VA			0.00%			0 VA					
RECEPTACLES										9180 VA			100.00%			9180 VA					
AC / HEAT PUMP										1950 VA			80.00%			1560 VA					
ELECTRIC HEAT										0 VA			0.00%			0 VA					
HVAC										1600 VA			80.00%			1280 VA					
MISCELLANEOUS										0 VA			0.00%			0 VA					

PANELBOARD SCHEDULE LC										LOCATION: SITE	FED FROM: T-C													
225 AMP MCB 120/208 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 10 KAIC																								
CKT	BRKR	POLE	LOAD			A	B	C	LOAD	POLE	BRKR	CKT												
1	20 A	1	REC ON RACK			0.2	0.5		BPZ ENCLOSURE	1	20 A	2												
3	20 A	1	REC PAVILION				0.4	0.5	MISCELLANEOUS	1	20 A	4												
5	20 A	1	REC GATE PANEL					0.2	1.9	SPARE (FIRE TRAINING TOWER)	1	20 A	6											
7	20 A	1	SPARE (FIRE TRAINING TOWER)			1.9	1.9		SPARE (FIRE TRAINING TOWER)	1	20 A	8												
9	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	10												
11	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	12											
13	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	14												
15	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	16												
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18											
19	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	20												
21	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	22												
23	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	24											
25	20 A	1	SPARE			0.0	0.0		SPARE	1	20 A	26												
27	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	28												
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	30											
						4 kVA	1 kVA	2 kVA																
						39 A	7 A	19 A																
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL. (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL. (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.																								
Load Classification										Connected Load			Demand Factor			Estimated Demand			Panel Totals					
INTERIOR LIGHTING										0 VA			0.00%			0 VA			Total Conn. Load: 7.4 kVA Total Est. Demand: 7.2 kVA Total Conn. Current: 21 A Total Est. Demand... 20 A					
EXTERIOR LIGHTING										0 VA			0.00%			0 VA								
RECEPTACLES										720 VA			100.00%			720 VA								
AC / HEAT PUMP										0 VA			0.00%			0 VA								
ELECTRIC HEAT										0 VA			0.00%			0 VA								
KITCHEN										0 VA			0.00%			0 VA								
MISCELLANEOUS										1000 VA			80.00%			800 VA								

PANELBOARD SCHEDULE HC										LOCATION: SITE	FED FROM: UTILITY XFMR										
400 AMP MCB SE RATED 480/277 Wye 3 PH 4 W MOUNT: SURFACE PANEL ASSEMBLY RATED (KAIC): 65 KAIC																					
CKT	BRKR	POLE	LOAD			A	B	C	LOAD	POLE	BRKR	CKT									
1						4.5	25.9					2									
3	125 A	3	T-C				0.9	25.9	FIRE PUMP HOUSE PANEL	3	225 A	4									
7	20 A	1	PAVILION LTG					2.1	25.9			6									
9	20 A	1	SPARE			0.4	0.0		SPARE	1	20 A	8									
11	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	10									
13	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	12									
15	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	14									
17	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	16								
19	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	18								
21	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	20								
23	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	22								
25	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	24								
27	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	26								
29	20 A	1	SPARE					0.0	0.0	SPARE	1	20 A	28								
						31 kVA	27 kVA	28 kVA													
						112 A	96 A	102 A													
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.22 DED. NEUTRAL. (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL. (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X. (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.																					
Load Classification										Connected Load			Demand Factor			Estimated Demand			Panel Totals		
INTERIOR LIGHTING										390 VA			100.00%			390 VA			Total Conn. Load: 85.4 kVA Total Est. Demand: 85.2 kVA Total Conn. Current: 103 A Total Est. Demand... 102 A		
EXTERIOR LIGHTING																					