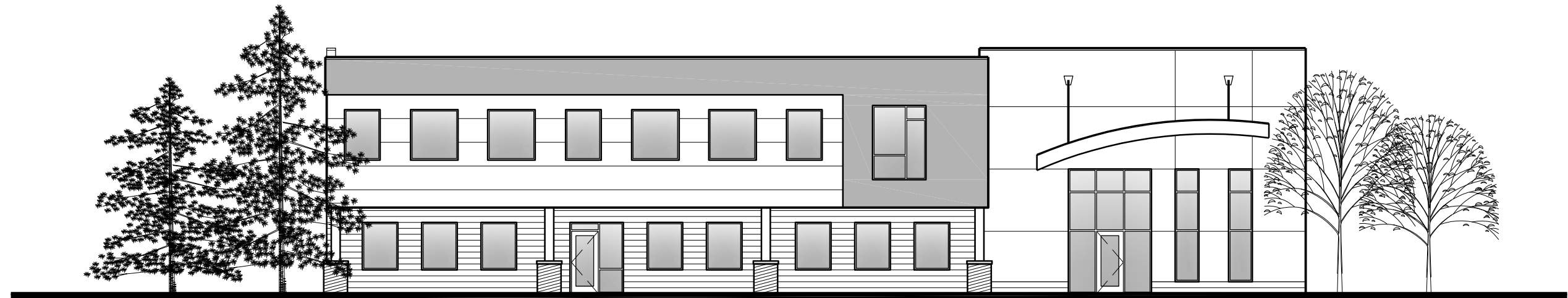


MURPHY BROS



PROJECT TEAM

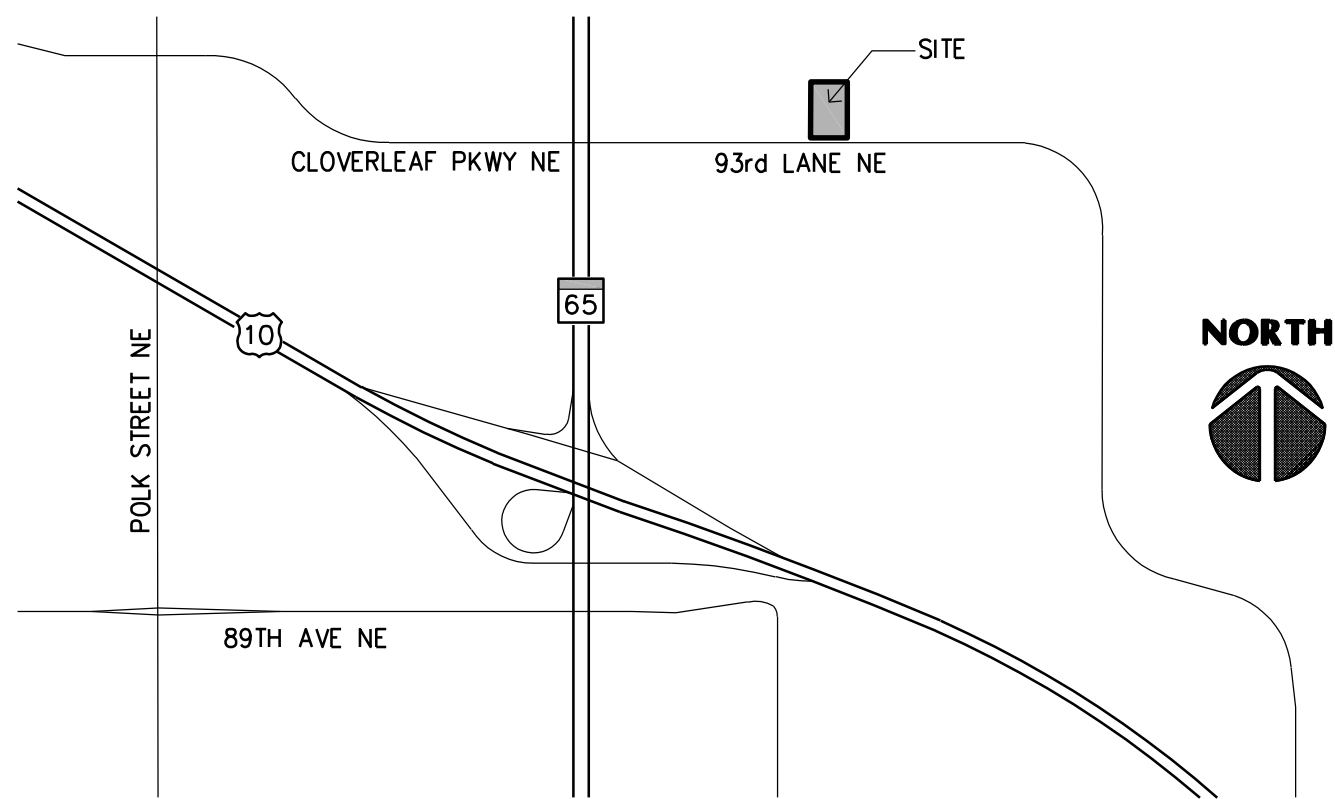
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VICINITY MAP



SHEET SCHEDULE

Sheet	Description
T1	Title Sheet
A1	Site Plan & Details
A2	Floor Plans, Wall Types, Finish Schedule
A3	Building Elevations
A4	Building Section, Doors & Frames
A5	Wall Sections
A6	Wall Sections
A7	Roof Plan, Restroom Plans & Details
A8	Elevator & Stair Details
S1	Footing And Foundation Plan, Details
S2	Second Floor Framing Plan, Details & Notes
S3	Roof Plan, Details
S4	Details

ANSI/ASHRAE STANDARD 90.1-2010

GENERAL

- A. Space Conditioning Category (5.1.2)
 1. Nonresidential Conditioned Space
 B. Climate (5.1.4)
 1. Zone 6 - Southern Minnesota

COMPLIANCE PATH

- A. Prescriptive Building Envelope Option (5.2)

Note: Compliance Is For Building Envelope Only. The Design-Build HVAC and Electrical Designers Must Submit Documentation Proving Compliance Based On The Equipment Being Installed.

MANDATORY PROVISIONS

- A. Components Of The Building Envelope Shall Comply With Section 5.4
 1. Insulation (5.4.1) Shall Comply With Section 5.8.1.1 - 5.8.1.9
 2. Fenestration / Door Performance (5.4.2) Shall Comply With Section 5.8.2
 3. Air Leakage (5.4.3)
 The Building Envelope Shall Contain An Air Barrier And Be Sealed At The Following Areas:
 - Joints Around Fenestration And Door Frames
 - Junctions Between Walls And Floors, Walls At Building Corners, Walls And Roofs Or Ceilings
 - Penetrations Of Utility Services At Walls, Floors, and Roofs
 - Building Assemblies Used As Ducts Or Plenums
 - Joints, Seams, Conn. Between Planes Or Changes In Air Barrier Materials
 Fenestration and Doors - According To 5.4.3.2
 Loading Dock Weatherseals - Required According To 5.4.3.3
 Vestibules - Required at Building Entrances According To 5.4.3.4

PRESCRIPTIVE REQUIREMENTS

Table 5.5-6 Building Component	Maximum Assembly	Minimum Insulation	Proposed
ROOF: Entirely Above Deck	U-0.048	R-20 (ci)	R-30 (ci)
WALLS: Mass	U-0.080	R-13.3 (ci)	U-0.076
WALLS: Steel Frame	U-0.064	R-13.0 + R-7.5 (ci)	R-21 + R-7.5 (ci)
S. O. G. FLOORS: Unheated	F=0.540	R=10.0	R=23
OPAQUE DOORS: Swinging	U=0.700	U=0.20	U=0.20
OPAQUE DOORS: Non-Swinging	U=0.500	U=0.147	U=0.147
FENESTRATION: 0-40% Glazing	U=0.450 (0.40 SHGC)	U=0.340	U=0.340

SUBMITTALS

- A. Contractor To Provide Product Submittals If Requested By The Building Official

PRODUCT INFORMATION AND INSTALL. REQ.

- A. Building Components Must Identify R-Values Or U-Values Clearly Labeled On The Product In Accordance With Section 5.8

GENERAL INFORMATION

- A. PROJECT NAME: Murphy Bros.
 B. PROJECT LOCATION: 1611, 1613, 1615 & 1617 93rd Lane NE Blaine, Minnesota
 C. ZONING AND LAND USE: I-1 Light Industrial
 D. LOT SIZE: 1.14 Acres 49,508 s.f.

APPLICABLE CODES:

- A. BLAINE ZONING ORDINANCE Current Edition
 B. MINNESOTA STATE BUILDING CODE (MSBC) 2015 Edition
 - INCLUDING -
 C. INT'L BUILDING CODE (W/ AMENDMENTS) 2012 Edition
 D. INT'L FIRE CODE (W/ AMENDMENTS) 2012 Edition
 E. INT'L MECHANICAL CODE (W/ AMENDMENTS) 2015 Edition
 F. MINNESOTA PLUMBING CODE 2015 Edition
 G. NATIONAL ELECTRICAL CODE (NEC) 2017 Edition
 H. MINNESOTA STATE ENERGY CODE 2015 Edition
 I. MINNESOTA STATE ACCESSIBILITY CODE 2015 Edition
 J. MINNESOTA CONSERVATION CODE /EX BLDGS 2015 Edition

BUILDING CLASSIFICATION

- A. OCCUPANCY GROUPS/ TYPE OF CONST (IBC Chpt 3 & IBC Chpt 6)
 1. Office - Group B
 - Type of Construction - II-B
 - Area - 5,098 s.f. (1st Floor)
 - Area - 4,800 s.f. (2nd Floor)
 - Proposed Height - 27'-4", 2 Stories
 2. Warehouse - Group S-1
 - Type of Construction - II-B
 - Area - 4,526 s.f.
 - Proposed Height - 27'-4", 1 Story
 3. Mixed Occupancy (IBC 508)
 - Group B is a Non-Separated Use From Group S-1
 4. Incidental Uses (IBC 509)
 - None
 B. FIRE-RESISTANCE-RATED CONSTRUCTION
 1. Building Elements (IBC Tables 601 & 602)

Element	Rating
Structural Frame	0 Hours
Exterior Bearing Walls	0 Hours
Interior Bearing Walls	0 Hours
Exterior Non-Bearing Walls	0 Hours
Interior Non-Bearing Walls	0 Hours
Floor Construction	0 Hours
Roof Construction	0 Hours

2. Exterior Wall Openings (IBC Table 705.8)
 - Separation Distance Greater Than 30 Feet

Classification	Area of Opening
Unprotected	No Limit
Protected	Not Required

3. Fire Walls (IBC 706)
 - Not Required -
 4. Fire Barriers (IBC 707)

Fire Barrier	Rating	Opening
Vertical Shaft Enclosures	1 Hour	60 Minute

5. Fire Partitions (IBC 708)
 - Not Required -

C. ROOF AND INTERIOR FINISH REQUIREMENTS

1. Minimum Wall And Ceiling Finish Requirement (IBC Table 803.9)

Building Component	Finish Class
Vertical Exits/ Exit Passageways	Class B - Group B Class C - Group S-1
Exit Access Corridors/ Other Exit ways	Class C
Rooms and Enclosed Spaces	Class C
2. Minimum Roof Covering Classification (IBC Table 1505.1) = Class C
 - (Contractor To Provide Class A Roof Assembly)

AUTOMATIC SPRINKLER REQUIREMENTS

- A. AN NFPA 13 AUTOMATIC SPRINKLER SYSTEM IS PROVIDED THROUGHOUT THE BUILDING (IBC 903.3.1.1)
 1. Required Location(s) (IBC 903.2)
 - Throughout The Building When The Fire Area Containing Group S-1 Exceeds 12,000 s.f., Or Exceeds 3 Stories, Or The Combined Fire Areas Of Group S-1 Exceeds 24,000 s.f.

NOTE TO ALL DESIGN/BUILD CONTRACTORS AND THEIR SUB-CONTRACTORS:

THE DESIGN/BUILD CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLER, OR ANY OTHER DESIGN/BUILD SUB-CONTRACTOR'S DOCUMENTS AS PERTAINING TO THE WORK FOR THIS PROJECT. IT IS THE DESIGN/BUILD SUB-CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DESIGN/BUILD CONTRACTOR OF ANY CONFLICTS WITH THE ARCHITECTURAL AND STRUCTURAL DOCUMENTS DUE TO SIZES, LOCATIONS, QUANTITIES, ROUGH-IN DIMENSIONS AND CODE INTERPRETATIONS. THE DESIGN/BUILD CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT IMMEDIATELY OF ANY ARCHITECTURAL REVISIONS REQUIRED DUE TO THE COORDINATION OF EACH DESIGN/BUILD SUB-CONTRACTOR'S DOCUMENTS.

ALLOWABLE HEIGHT, ALLOWABLE AREA

- (Group S-1 is More Restrictive Than Group B)
 A. ALLOWABLE HEIGHT (IBC Table 503)
 1. Group S-1, Type II-B
 - 55'-0", 2 Stories + Sprinkler Increase (IBC 504.2) = 75'-0", 3 Stories
 2. Height Check
 - 2 Stories < 3 Stories
 - 27'-4" < 75'-0"
 B. ALLOWABLE AREA (IBC Table 503)
 1. Group S-1, Type II-B
 - Tabular Area = 17,500 s.f.
 - Frontage Increase (IBC 506.2) = 30'

$$1.17 \times 500 \times \left(\frac{407'-0"}{407'-0"} - .25 \right) \times \frac{30'}{30'} = 13,125 \text{ s.f.}$$
 - Sprinkler Increase (IBC 506.3)
 Tabular Area x 2 = 35,000 s.f.
 = 65,625 s.f.
 2. Area Check
 - Whole Building Area Check

$$14,424/131,250 = 11\% < 100\%$$
 - 1st Floor Area Check

$$9,898/65,625 = 15\% < 100\%$$
 - 2nd Floor Area Check

$$4,800/65,625 = 7\% < 100\%$$

MEANS OF EGRESS

- A. DESIGN OCCUPANT LOAD (IBC Table 1004.1.2)
 1. 1st Floor Office: 5,098 s.f. @ 1/100 = 51 Occupants
 2. 2nd Floor Office: 4,800 s.f. @ 1/100 = 48 Occupants
 3. Warehouse: 4,526 s.f. @ 1/500 = 9 Occupants
 4. Total = 108
 B. EXITS
 1. Number Required (IBC 1015/ 1021) = 2
 2. Number Accessible Required (IBC 1007) = 2
 3. Arrangement (IBC 1015.2)
 - Not Less Than 1/2 Overall Diagonal (Non-Sprinklered Building)
 - Not Less Than 1/3 Overall Diagonal (Sprinklered Building)
 4. Travel Distance Maximums
 - Exit Access (IBC 1016) = 250'
 - Common Path of Egress (IBC 1014.3) = 100'
 - Dead Ends (IBC 1018.4) = 50'
 5. Sizing (The Greater of Two Conflicting Widths Shall Be Used)
 - Design Egress Sizing (IBC 1005.3)
 Stairways (Occ Load x .3) = 14.4"
 Other Components (Occ Load x .2) = 21.6"
 - Stairways (IBC 1009.4) = 36"
 - Corridors (IBC 1018.2) = 44"
 - Exit Passageways (IBC 1023.2) = 44"
 - Exit Doors (IBC 1008.1.1) = 32" Min Clear
 48" Max Nom

6. Doors
 - Swing (IBC 1008.1.2)
 Side Hinged Swinging Out At Occupant Load Of 50 Or More
 - Landings (IBC 1008.1.6)
 Width Not Less Than Width of Door Or Stairway
 Length in Direction of Travel Not Less Than 44"
 - Thresholds (IBC 1008.1.7)
 Max Height = 1/2" - 1:2 Beveled Edge If 1/4"-1/2"
 - Door Arrangement (IBC 1008.1.8) 48" + Door Width Apart
 - Lock or Latch (IBC 1008.1.9)
 Operable From Inside Without Use of Knowledge or Keys.
 Manually Operated Flush Bolts Permitted With Sprinkler System.
 - Panic/ Fire Exit Hardware (IBC 1008.1.10)
 Not Required At Exit/Exit Access Doors

ACCESSIBLE MEANS OF EGRESS

- A. ELEVATOR
 1. The Service Elevator Is an Accessible Means Of Egress. The Elevator Must Comply With The Emergency Operation Requirements Of Section 2.27 Of ASME A17.1. And Have Stand-By Power.
 - 30"x48" Area of Refuge Required (See Floor Plans For Locations).
 B. STAIRS
 1. Stairs A, B, And C Are An Accessible Means Of Egress
 - 30"x48" Area of Refuge Not Required (IBC 1007.3 Exc. #2)
 - 48" Clear Between Handrails Not Required (IBC 1007.3 Exc. #1)

PLUMBING FIXTURES

- A. NUMBER FIXTURES REQUIRED (IBC 2902.1)
 1. Group B (Main Floor and Upper Floor Offices)
 - 99 Occupants
 - 49 Male Occupants, 50 Female Occupants

Fixture	Required
Water Closets	49 @ 1/25 = 1.96 50 @ 1/25 = 2.00
Urinals	-
Lavatories	49 @ 1/40 = 1.23 50 @ 1/40 = 1.25
Bathrooms/ Showers	-
Drinking Fountains	99 @ 1/100 = 0.99
Service Sink	1

 2. Group S-1 (Warehouse)
 - 9 Occupants
 - 5 Male Occupants, 4 Female Occupants

Fixture	Required
Water Closets	5 @ 1/100 = 0.05 4 @ 1/100 = 0.04
Urinals	-
Lavatories	5 @ 1/100 = 0.05 4 @ 1/100 = 0.04
Bathrooms/ Showers	-
Drinking Fountains	9 @ 1/1,000 = 0.01
Service Sink	-

 3. Total Number of Plumbing Fixtures Required

Fixture	Required	Provided
Water Closets	2.01	3
Urinals	-	-
Lavatories	1.28	2
Bathrooms/ Showers	-	-
Drinking Fountains	1.00	2
Service Sink	1	1

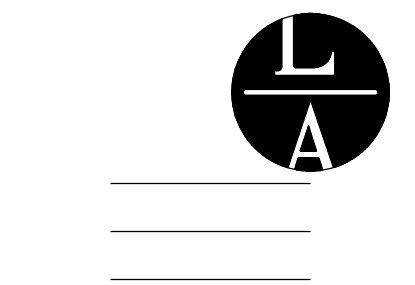
Note: MSBC 2902.1, Footnote k - Up To 2/3 Of Required Water Closets May Be Substituted As Urinals
 B. LOCATION OF FIXTURES (IBC 2902.3.2)
 - Not More Than 1 Story Above Or Below Regular Working Area
 - Travel Distance Less Than 500 ft
 C. SIGNAGE (IBC 2902.4)
 - A Legible Sign For Each Sex Shall Be Provided Near The Entrance To The Toilet Facility

OTHER

- A. ACCESSIBILITY (MN State Accessibility Code)
 1. Building is Accessible
 B. GUARDS (IBC 1013)
 1. 42" High Minimum Guards Shall Be Installed Where A Change In Levels Drops 30" Or More.
 C. ROOF ACCESS (IBC 306.5)
 1. 60" Ships Ladder To 8 s.f. Roof Hatch (Min Dim 1'-8") Provided
 - Provide 42" Guard If Opening Is Within 10' Of Roof Edge.
 D. CONCEALED SPACES
 1. Floors (IBC 718.3)
 - Draftstops Not Required in Sprinklered Building
 2. Attics (IBC 718.4)
 - Draftstops Not Required in Sprinklered Building
 E. VENTILATION
 1. Attics (IBC 1203.2)
 - 1 s.f./ 300 s.f. With Vapor Barrier
 2. Under-Floors (IBC 1203.3)
 - Not Required
 G. SAFETY GLAZING (IBC 2406)
 1. Safety Glazing Shall Be Installed In Hazardous Locations As Specified in IBC 2406.4
 H. RECYCLING SPACE (MSBC 1303.1500)
 1. Office: 9,898 x 0.0025 = 24.7 s.f.
 2. Warehouse: 4,526 s.f. x 0.001 = 4.5 s.f.
 3. Total = 29.2 s.f. Required
 J. FIRE ALARM AND DETECTION SYSTEMS
 1. Fire Alarm And Detection System Not Required (IBC 907.2)
 2. If Required Provide Audible And Visible Alarm Notification Devices (IBC 907.5, NFPA 72)
 M. PARKING AND MANEUVERING (Blaine Zoning Ordinance)
 1. Parking Stall Calculation

Category	Area	Stalls
OFFICE	6,301 s.f. @ 1/200 s.f.	32 Stalls
WAREHOUSE	6,393 s.f. @ 1/1,000 s.f.	6 Stalls
Total Stalls Required		38 Stalls
Total Stalls Provided		38 Stalls
Accessible Requirement Per 38 Stalls (IBC Table 1106.1)		2 Stalls

2. Stall Size - 9'-0" x 18'-0"
 3. Aisle Size - 24'-0"
 4. Striping - 4" White Stripes
 5. Pavement Design
 - All Drive Aisles And Truck Maneuvering Areas
 2" Bituminous Wear Course MN. D.O.T. 2331 Type 41
 2" Bituminous Binder Course MN. D.O.T. 2331 Type 31
 8" Compacted Class 5 Base MN. D.O.T. 3138
 - All Parking Areas
 1 1/2" Bituminous Wear Course MN. D.O.T. 2331 Type 41
 1 1/2" Bituminous Binder Course MN. D.O.T. 2331 Type 31
 6" Compacted Class 5 Base MN. D.O.T. 3138
 - Verify With Existing Soil Conditions And Adjust Accordingly



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Leonard Lampert
 SIGNATURE
 LEONARD LAMPERT
 PRINT NAME
 13669
 LICENSE NO.
 12/19/19
 DATE



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Checked By: LL

Revisions:

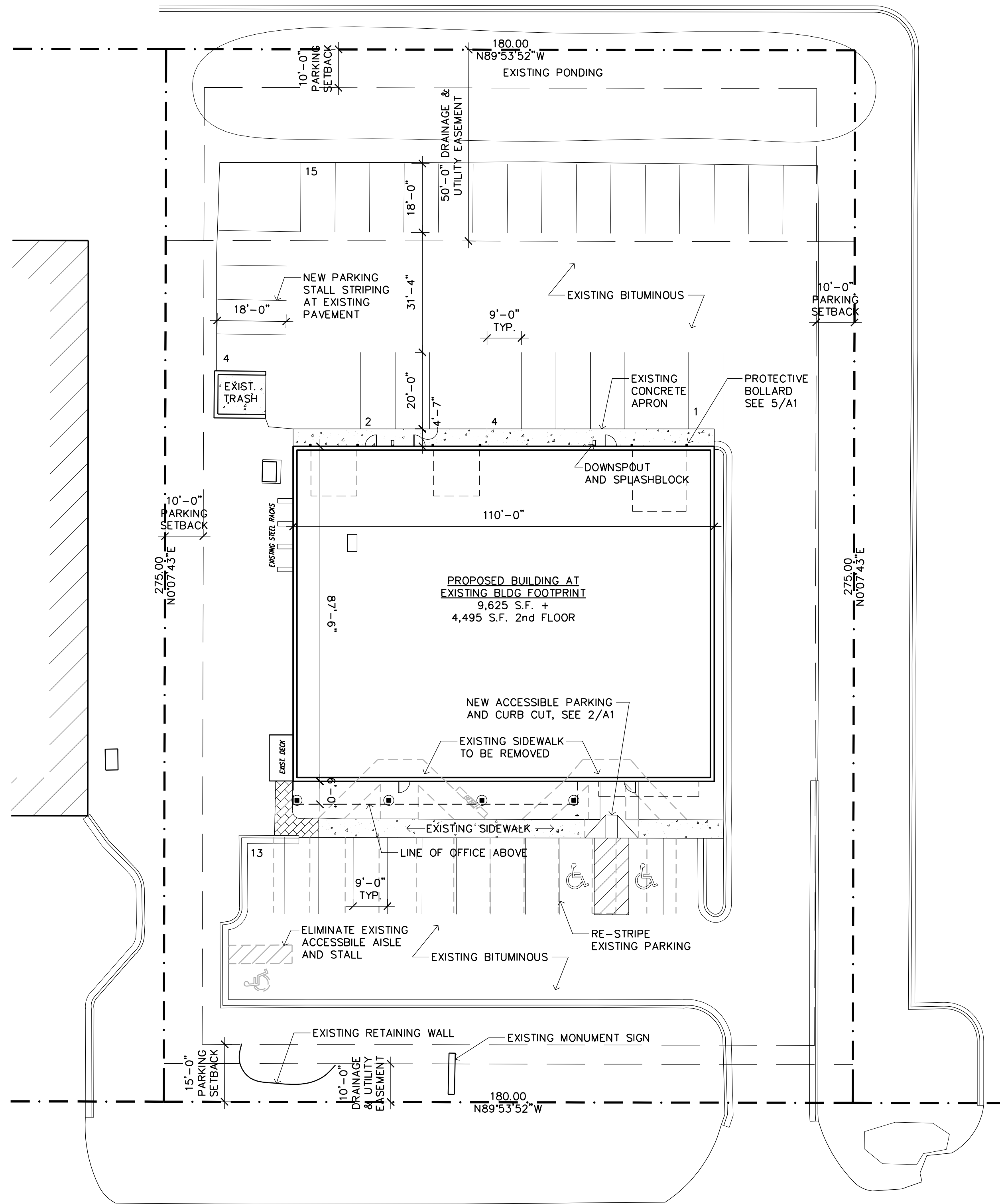
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TITLE SHEET

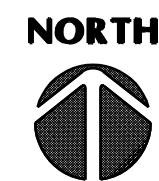
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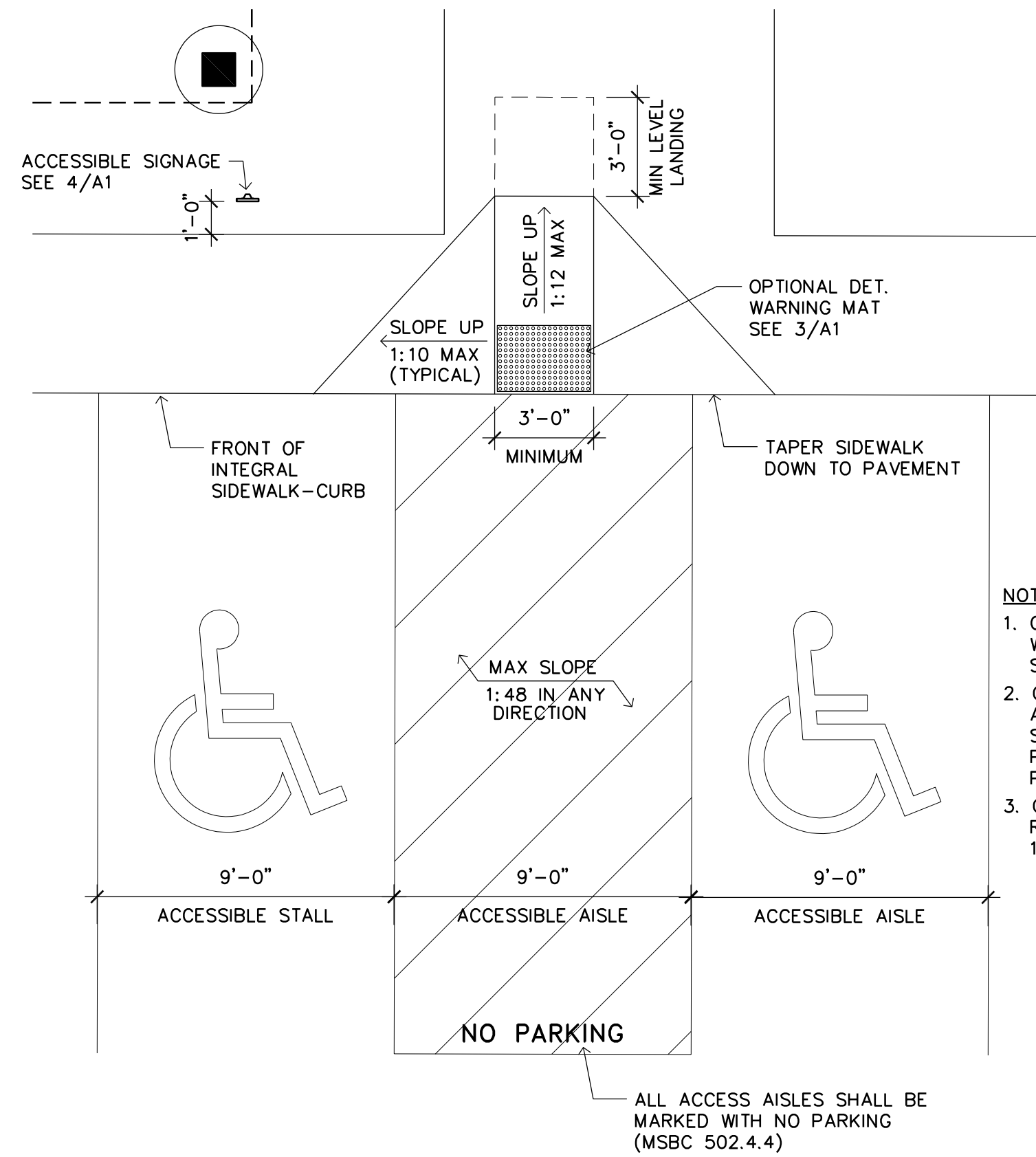
Project No. 190826-3



1 SITE PLAN
A1 SCALE: 1" = 20'-0"



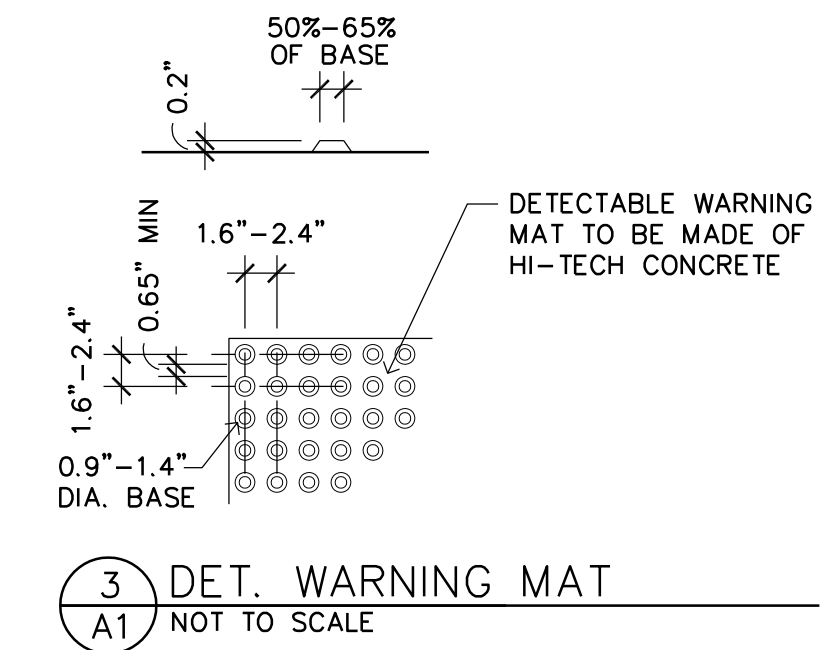
93RD LANE NE



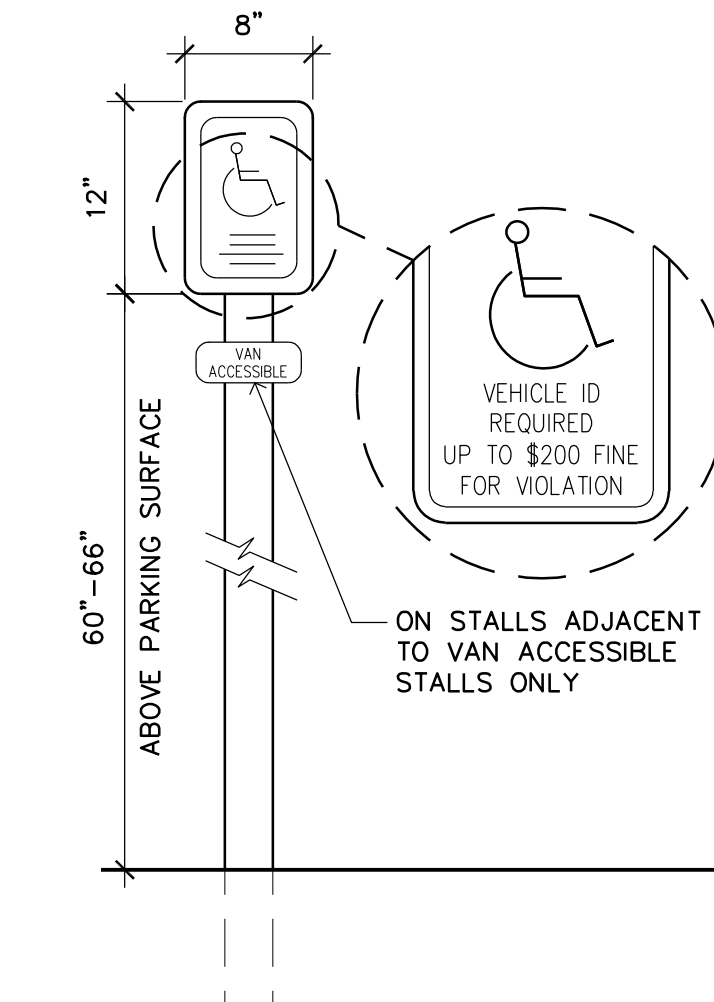
2 ACCESSIBLE CURB CUT
A1 SCALE: 1/4" = 1'-0"

- NOTES:
1. CURB RAMP TO COMPLY WITH ICC/ANSI A117.1 SECTION 406 AND 705
 2. CURB RAMP AND ACCESSIBLE AISLE/STALL SHALL BE DESIGNED TO PREVENT WATER FROM PONDING
 3. CROSS SLOPES ON CURB RAMP NOT TO EXCEED 1:48

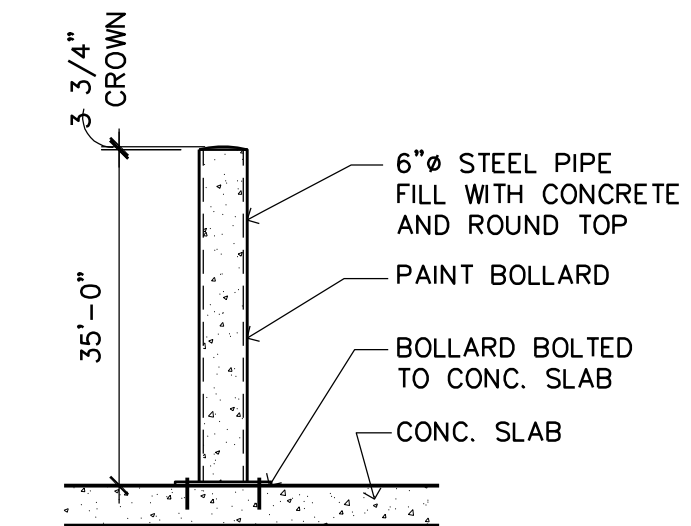
ALL ACCESS AISLES SHALL BE MARKED WITH NO PARKING (MSBC 502.4.4)



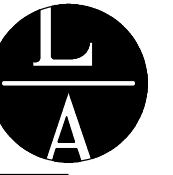
3 DET. WARNING MAT
A1 NOT TO SCALE



4 ACCESSIBLE PARKING SIGN
A1 1" = 1'-0"



5 PROTECTIVE BOLLARD
A1 SCALE: 1/2" = 1'-0"



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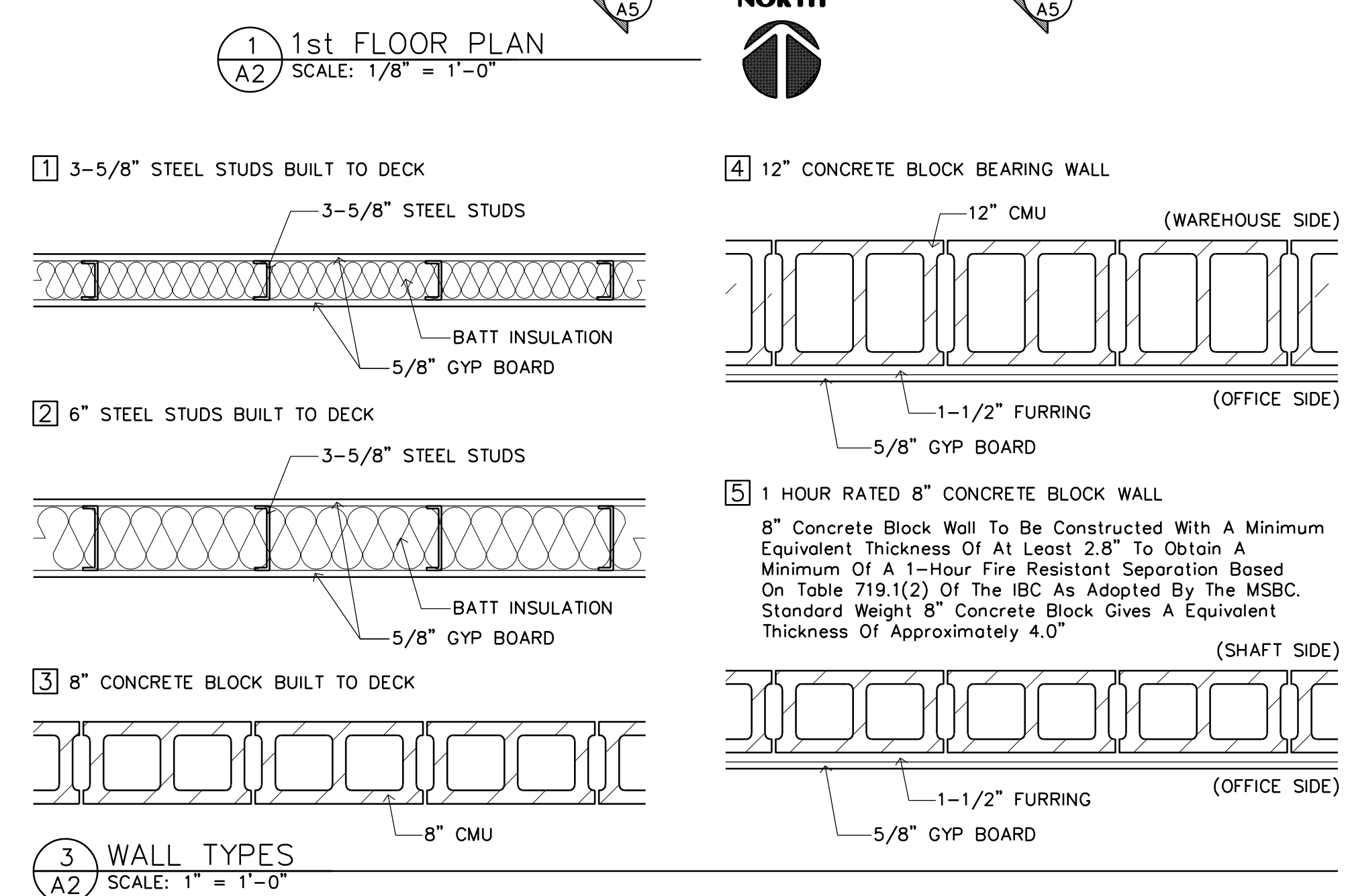
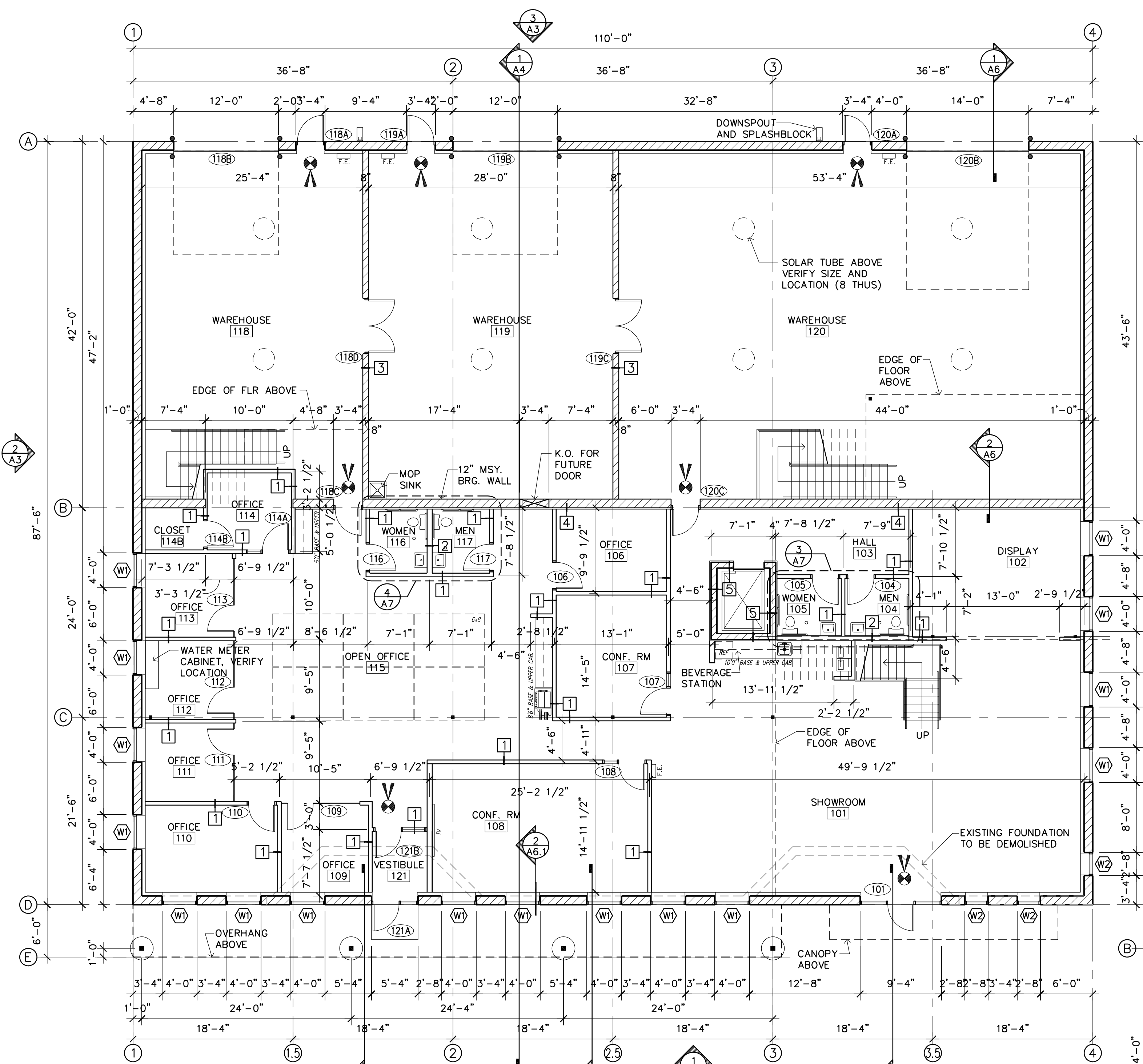
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Project Designer: L. SCHMIDT
Drawn By: LLS
Checked By: LL

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12/19/19	

SITE PLAN AND DETAILS

Sheet Number

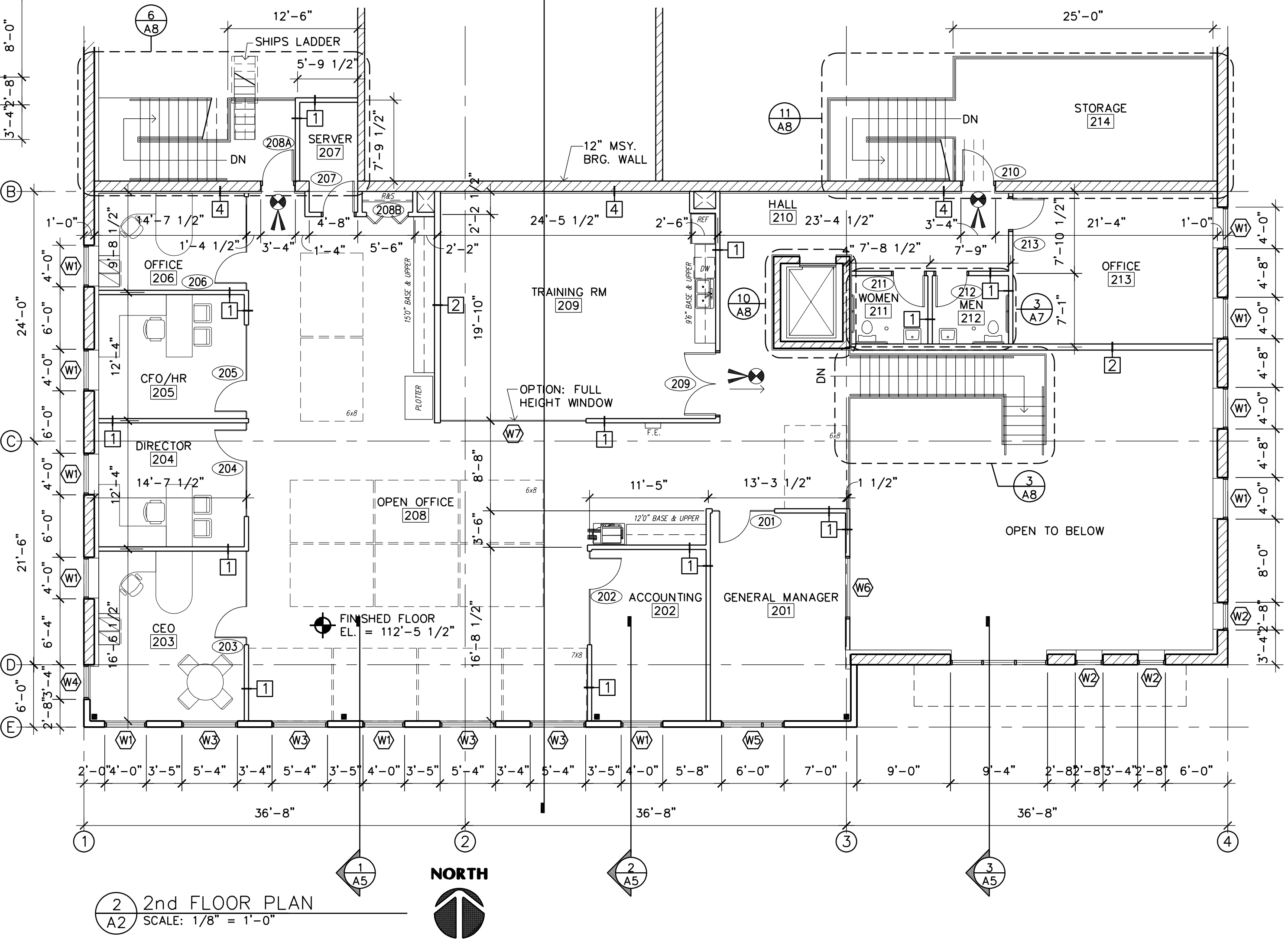
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- PLAN NOTES:**
- EXIT SIGNAGE. PROVIDE EMERGENCY BACK-UP POWER
 - EMERGENCY LIGHTING. PROVIDE EMERGENCY BACK-UP POWER AND (1) FOOT CANDLE AT THE WALKING SURFACE.
 - F.E. = FIRE EXTINGUISHER. VERIFY SIZE AND SPACING WITH BUILDING OFFICIAL.

RM#	DESCRIPTION	FLOOR	BASE	N.WALL	E.WALL	S.WALL	W.WALL	CLG.	HGHT	REMARKS
101	SHOWROOM	CONC	PT/GYP	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARIES	
102	DISPLAY	CONC	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
103	HALL	CONC	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
104	MEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
105	WOMEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
106	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
107	CONFERENCE ROOM	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
108	CONFERENCE ROOM	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
109	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
110	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
111	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
112	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
113	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
114	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
114B	CLOSET	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
115	OPEN OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
116	WOMEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
117	MEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
118	WAREHOUSE	CONC	VINYL	PT/GYP	PT/GYP	BLOCK	PT/GYP	OPEN	VARRIES	VINYL BASE AT PT/GYP ONLY
119	WAREHOUSE	CONC	VINYL	PT/GYP	PT/GYP	BLOCK	BLOCK	OPEN	VARRIES	VINYL BASE AT PT/GYP ONLY
120	WAREHOUSE	CONC	VINYL	PT/GYP	PT/GYP	PT/GYP	BLOCK	OPEN	VARRIES	VINYL BASE AT PT/GYP ONLY
121	VESTIBULE	CONC	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	ACT	9'-0"	
201	GENERAL MANAGER	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
202	ACCOUNTING	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
203	CEO	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
204	DIRECTOR	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
205	CFO/HR	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
206	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
207	SERVER	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
208	OPEN OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
209	TRAINING ROOM	LVT	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
210	HALL	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
211	WOMEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
212	MEN	TILE	TILE	TILE/WST	SEE RESTROOM PLANS	ACT	9'-0"			
213	OFFICE	CARPET	VINYL	PT/GYP	PT/GYP	PT/GYP	PT/GYP	OPEN	VARRIES	
214	STORAGE	CONC.	VINYL	-	PT/GYP	BLOCK	-	OPEN	VARRIES	VINYL BASE AT PT/GYP ONLY

ABBREVIATIONS:
 PT/GYP = PAINTED GYPSUM BOARD
 GYP BD = GYPSUM BOARD TAPED AND SANDED
 TILE = CERAMIC OR PORCELAIN
 TILE/WST = TILE WAINSCOT TO 4'-0" A.F.F.
 VCT = VINYL COMPOSITION TILE
 PT/BLK = PAINTED CONCRETE BLOCK
 CONC = SEALED CONCRETE
 ACT = ACOUSTICAL CEILING TILE
 LVT = LUXURY VINYL TILE
 FRP = FIBER REINFORCED PLASTIC PANELING



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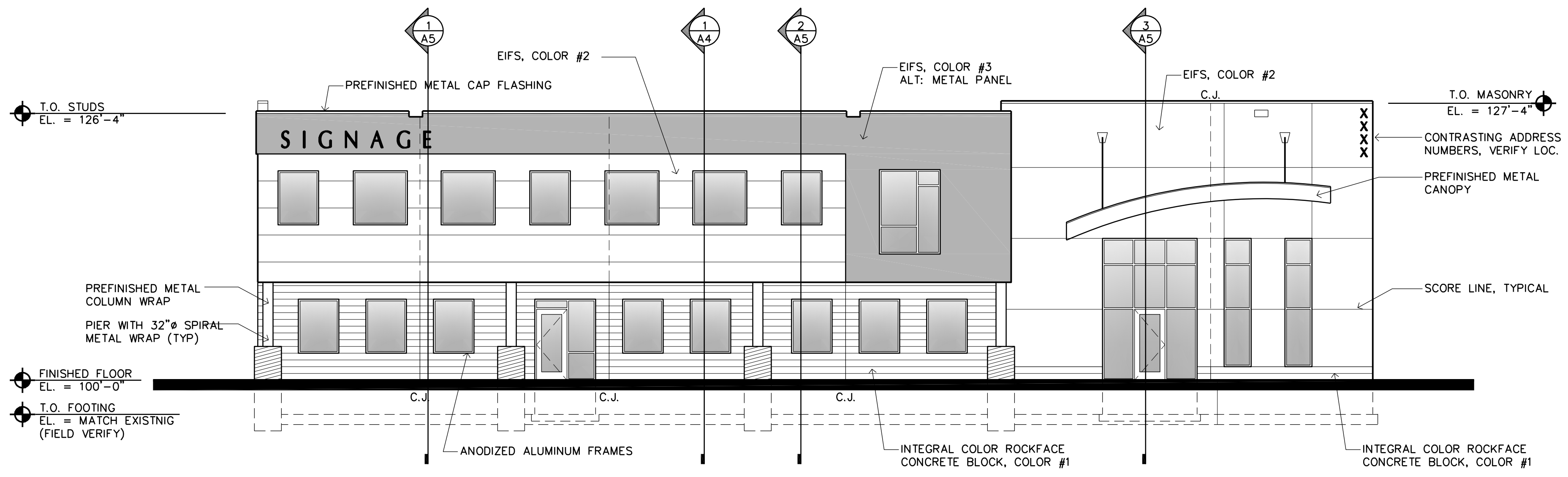
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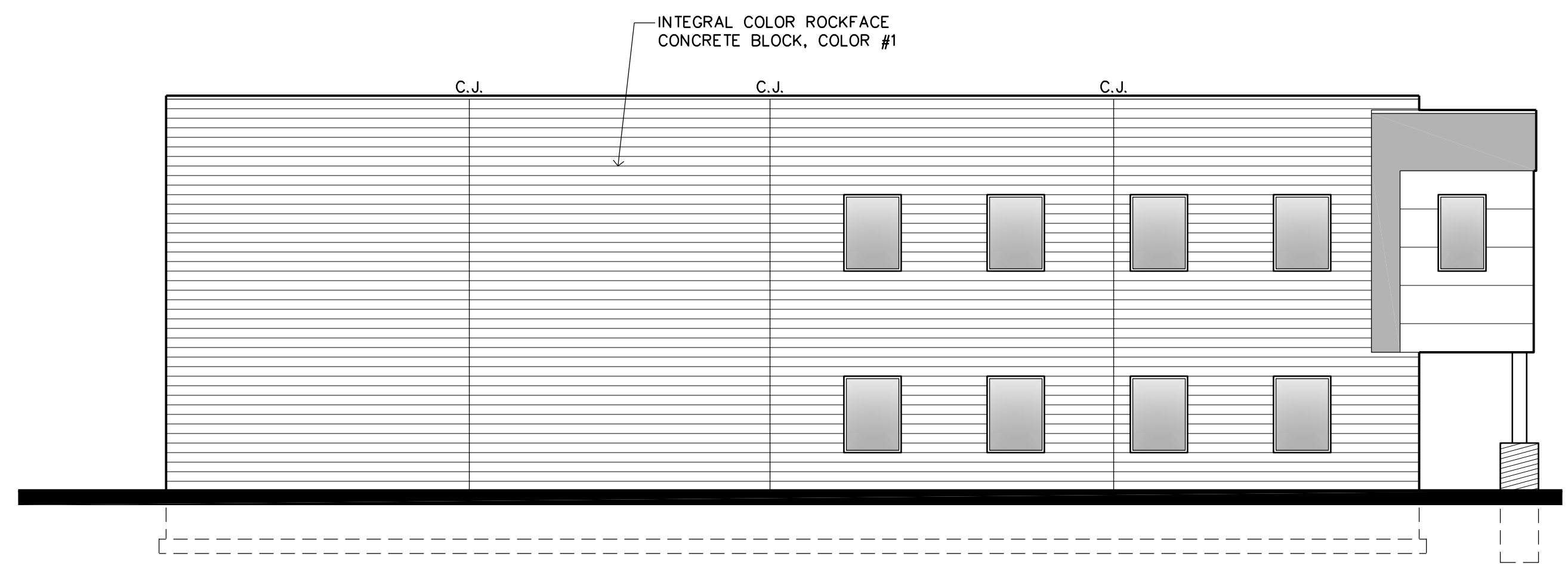
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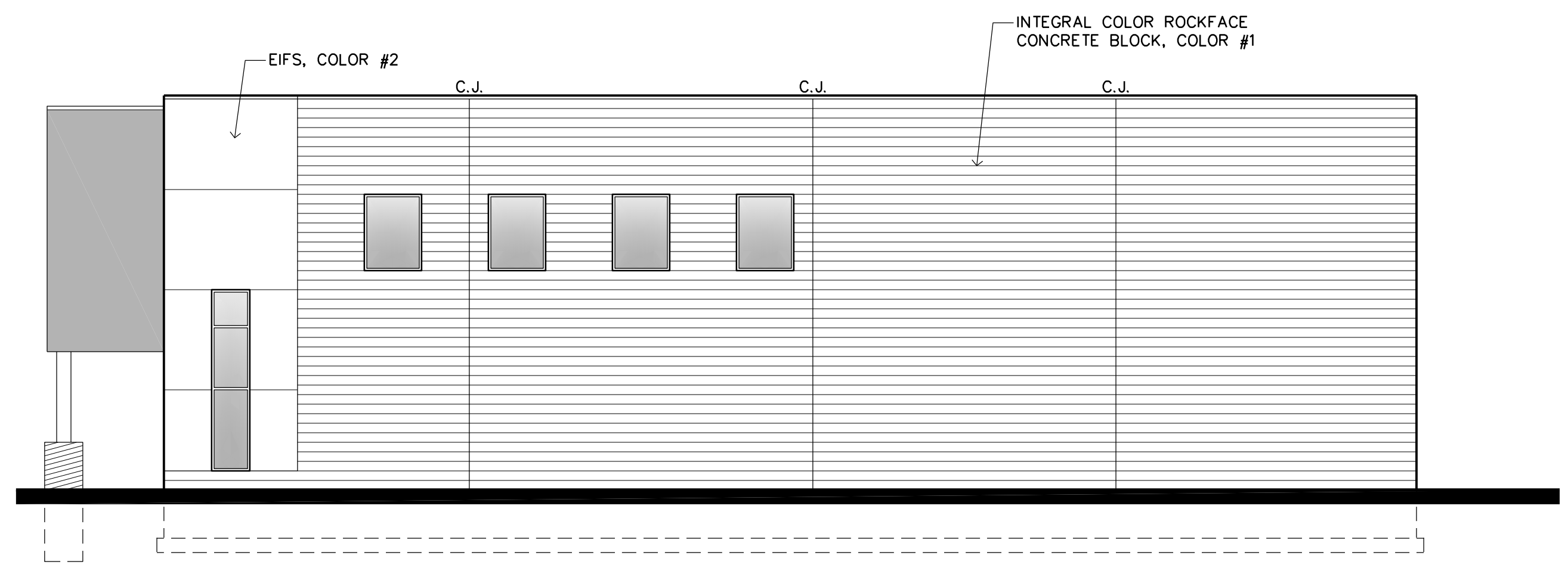
FLOOR PLANS
WALL TYPES
FINISH SCHEDULE
 Sheet Number



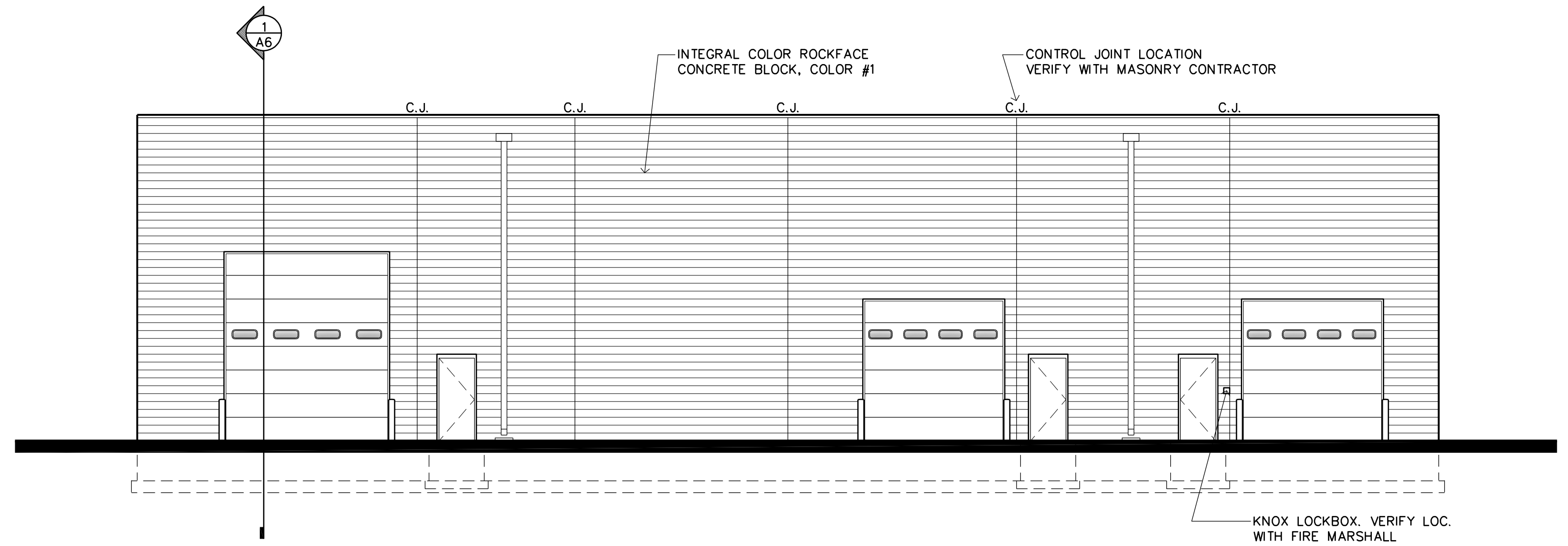
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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

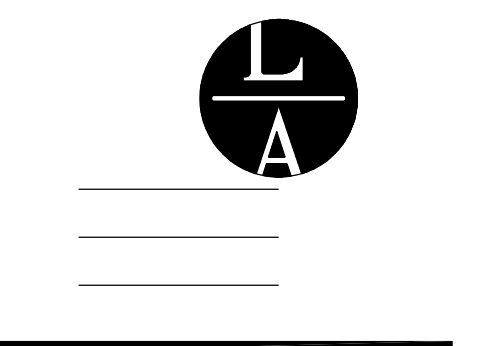


4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



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

Filename: Murphy Bros\Murphy Bros - A3.dwg



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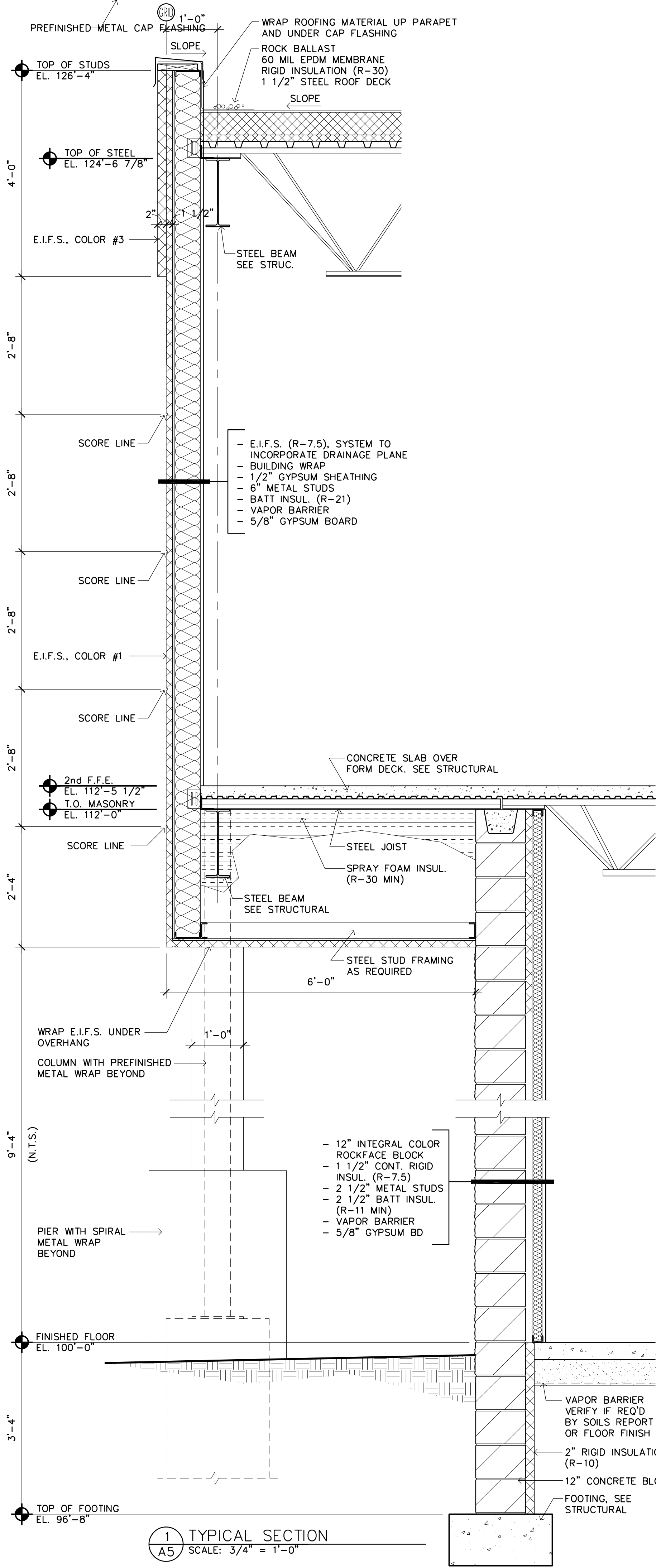
BUILDING ELEVATIONS

Sheet Number

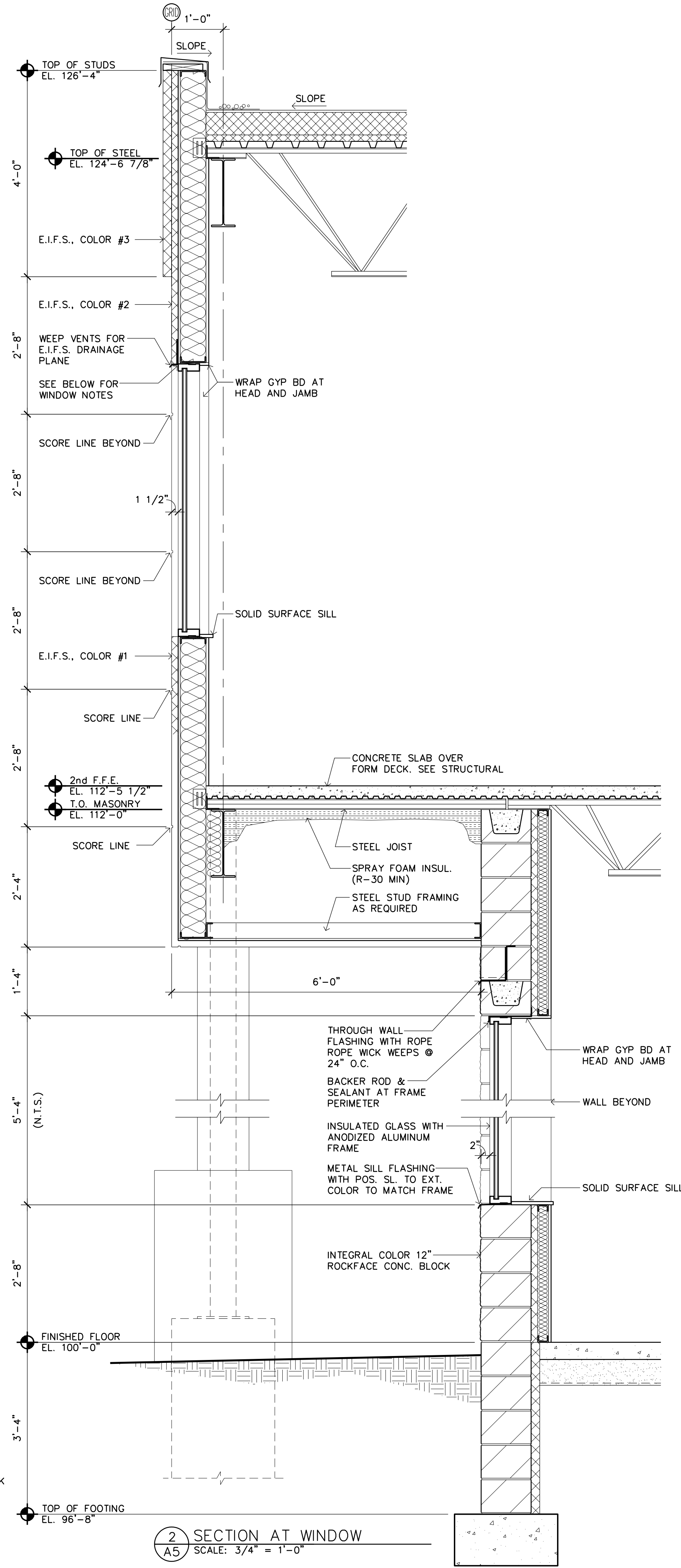
A3

Project No. 190826-3

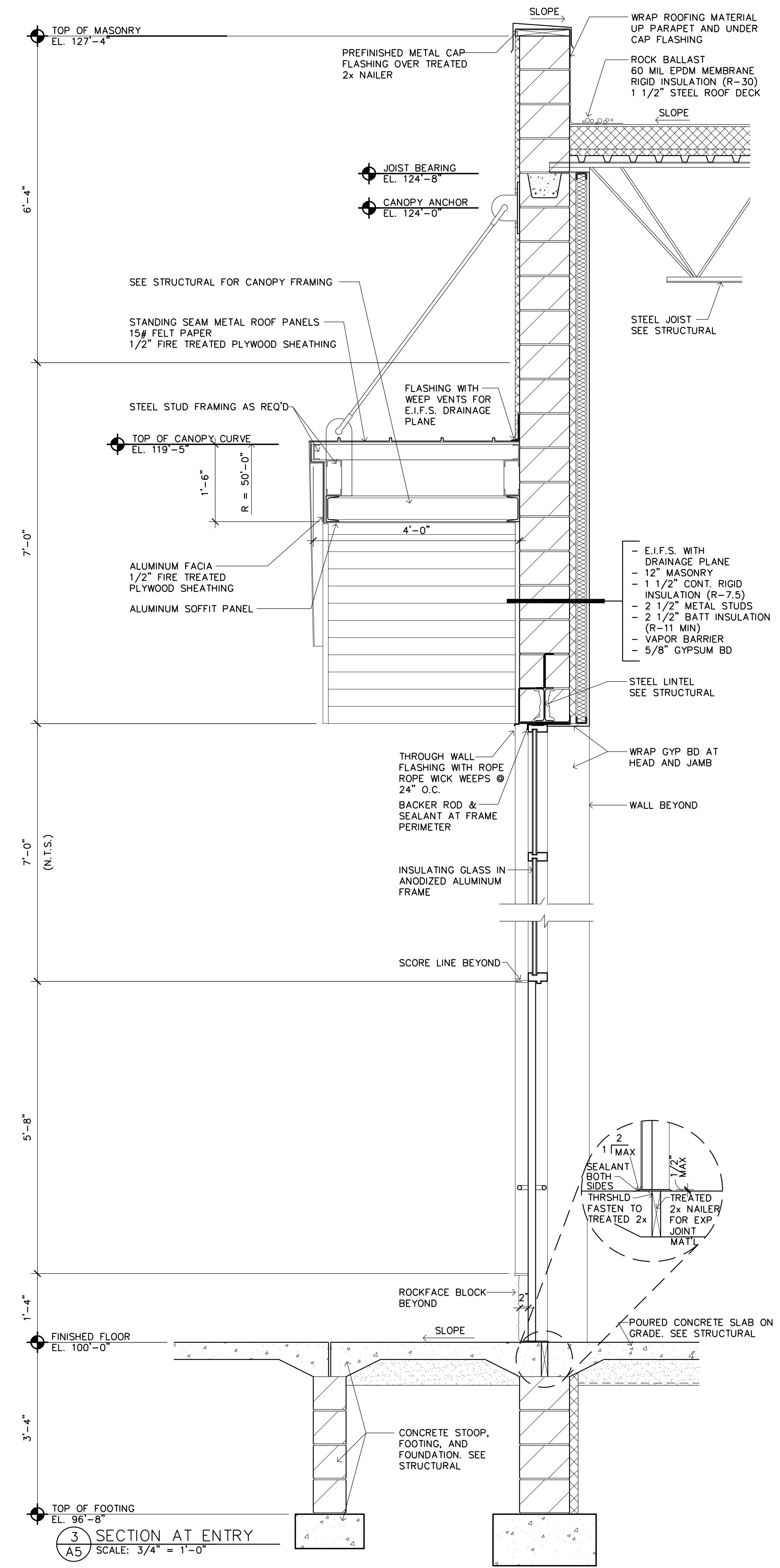
Filename: Murphy Bros\Murphy Bros - A5.dwg



1 TYPICAL SECTION
A5 SCALE: 3/4" = 1'-0"



2 SECTION AT WINDOW
A5 SCALE: 3/4" = 1'-0"



3 SECTION AT ENTRY
A5 SCALE: 3/4" = 1'-0"

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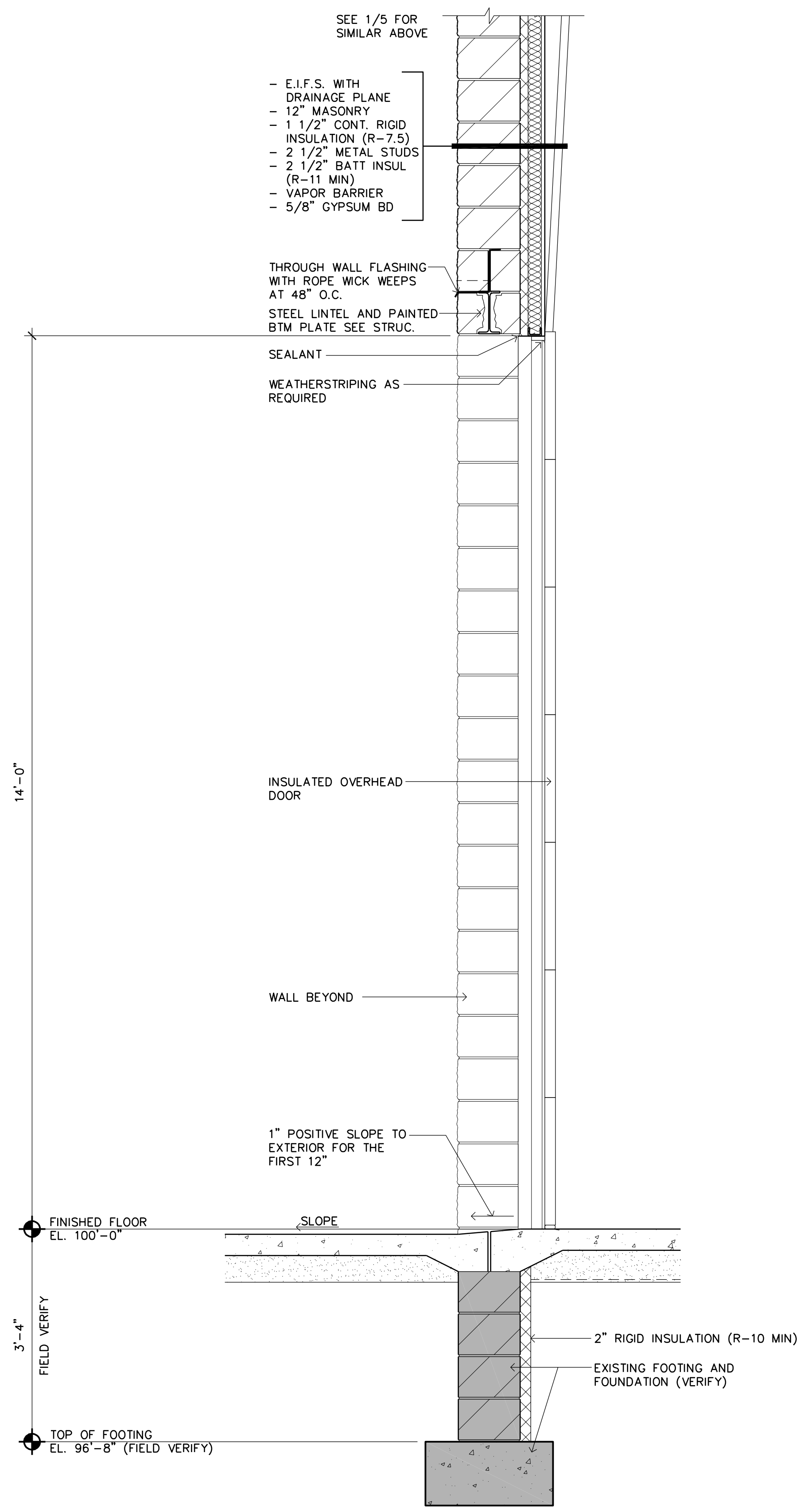
WALL SECTIONS

Sheet Number

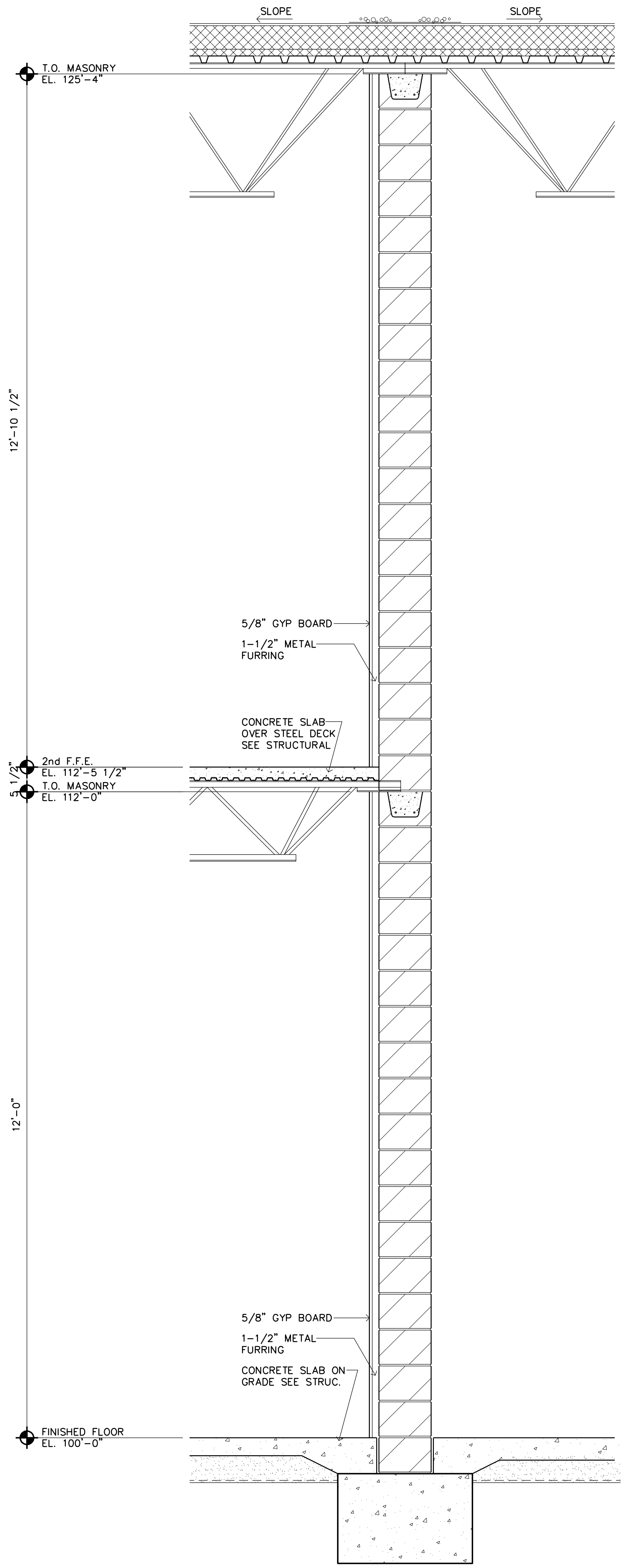
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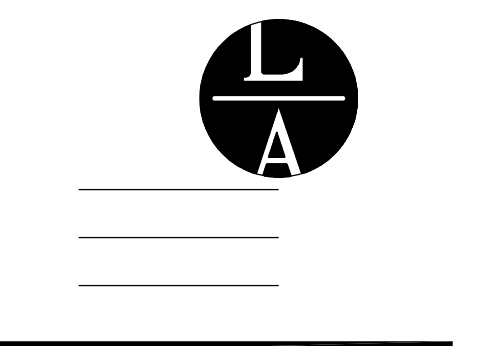
Filename: Murphy Bros\Murphy Bros - A6.dwg



1 SECTION AT OVERHEAD DOOR
A6 SCALE: 3/4" = 1'-0"



1 SECTION AT BEARING WALL
A6 SCALE: 3/4" = 1'-0"



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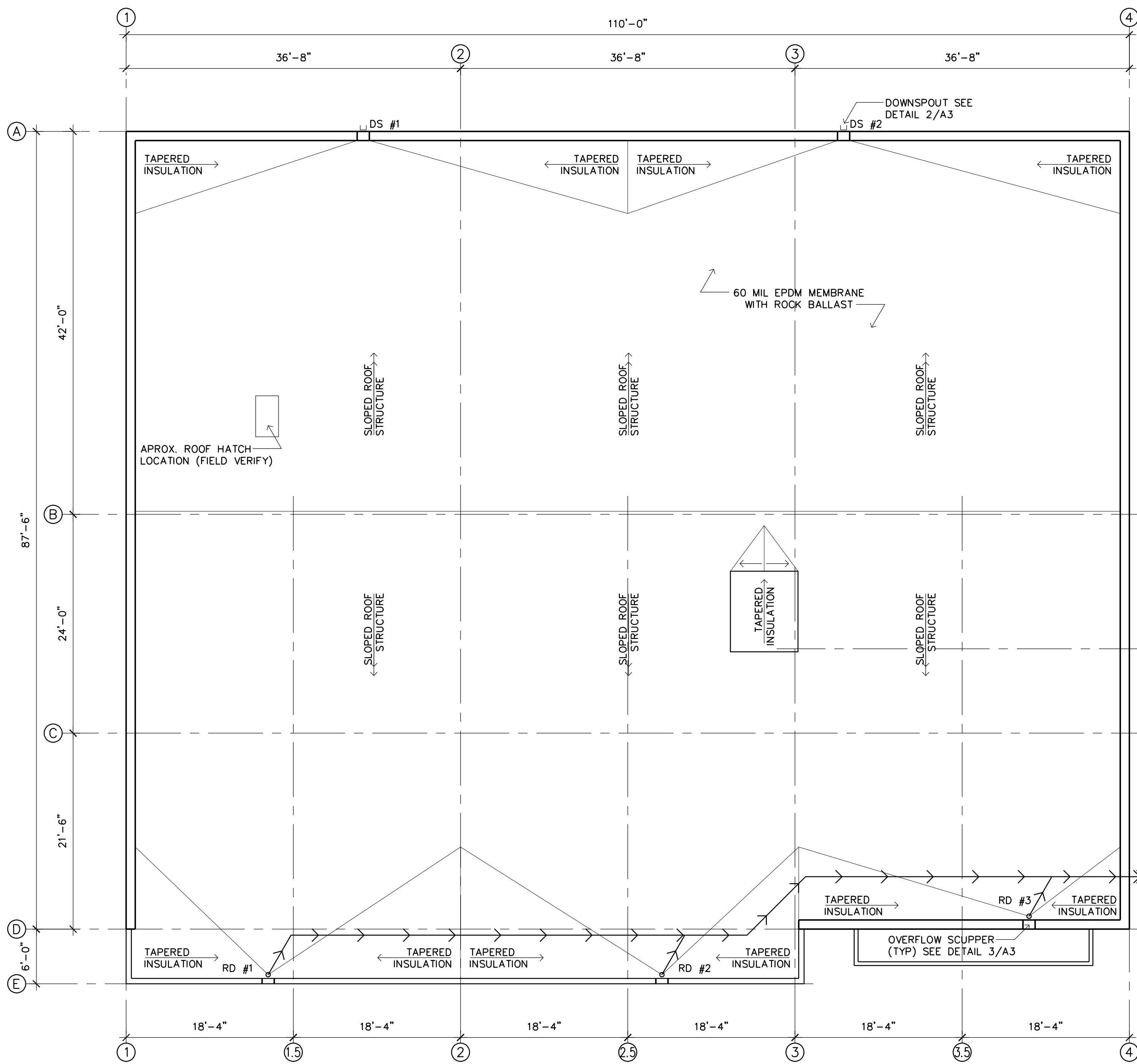
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WALL SECTIONS

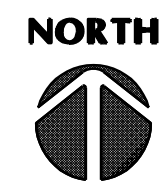
Sheet Number

A6

Project No. 190826-3



1 ROOF PLAN
A7 SCALE: 1/8" = 1'-0"



ROOF PLAN NOTES:

- ROOF SLOPES 8" OVER 44'-6" (1.5%)
- ROOF TOP UNIT LOCATIONS MUST BE CONFIRMED WITH MECHANICAL DRAWINGS (DESIGN BUILD) ROOF TOP UNITS TO BE LOCATED AWAY FROM THE PARAPET EDGE SO FAR AS POSSIBLE TO MINIMIZE THEIR APPEARANCE FROM THE GROUND.
- DOWNSPOUTS, ROOF DRAINS AND DRAIN LEADER DESIGN IS BY PLUMBING CONTRACTOR LEADERS TO BE TIED INTO ONSITE STORM DRAIN - SEE CIVIL PLAN FOR STUB LOCATION
- AREA SERVED BY ROOF DRAINS AND DOWNSPOUTS:

ROOF DRAIN #1 ± 1,900 S.F.	ROOF DRAIN #2 ± 1,925 S.F.	ROOF DRAIN #3 ± 1,660 S.F.
DOWNSPOUT #1 ± 2,300 S.F.	DOWNSPOUT #2 ± 2,300 S.F.	

GRAB BARS

GRAB BARS SHALL BE 1 1/4"-2" IN DIAMETER. THE SPACE BETWEEN THE GRAB BAR AND THE WALL SHALL BE 1 1/2". A 1 1/2" MINIMUM CLEARANCE SHALL BE PROVIDED BELOW AND AT END OF THE GRAB BAR. A 12" MINIMUM CLEARANCE SHALL BE PROVIDED ABOVE THE GRAB BAR EXCEPT AT SHOWER CONTROLS. GRAB BARS SHALL NOT ROTATE IN THEIR FITTING AND SHALL CONTROLS. GRAB BARS SUPPORT 250 POUNDS MINIMUM.

FLUSH CONTROLS

FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC. HAND OPERATED CONTROLS SHALL COMPLY WITH REQUIREMENTS FOR ACCESSIBLE OPERABLE PARTS. FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET, EXCEPT IN AMBULATORY ACCESSIBLE COMPARTMENTS WHERE CONTROLS ARE PERMITTED ON EITHER SIDE OF THE WATER CLOSET.

ACCESSORIES

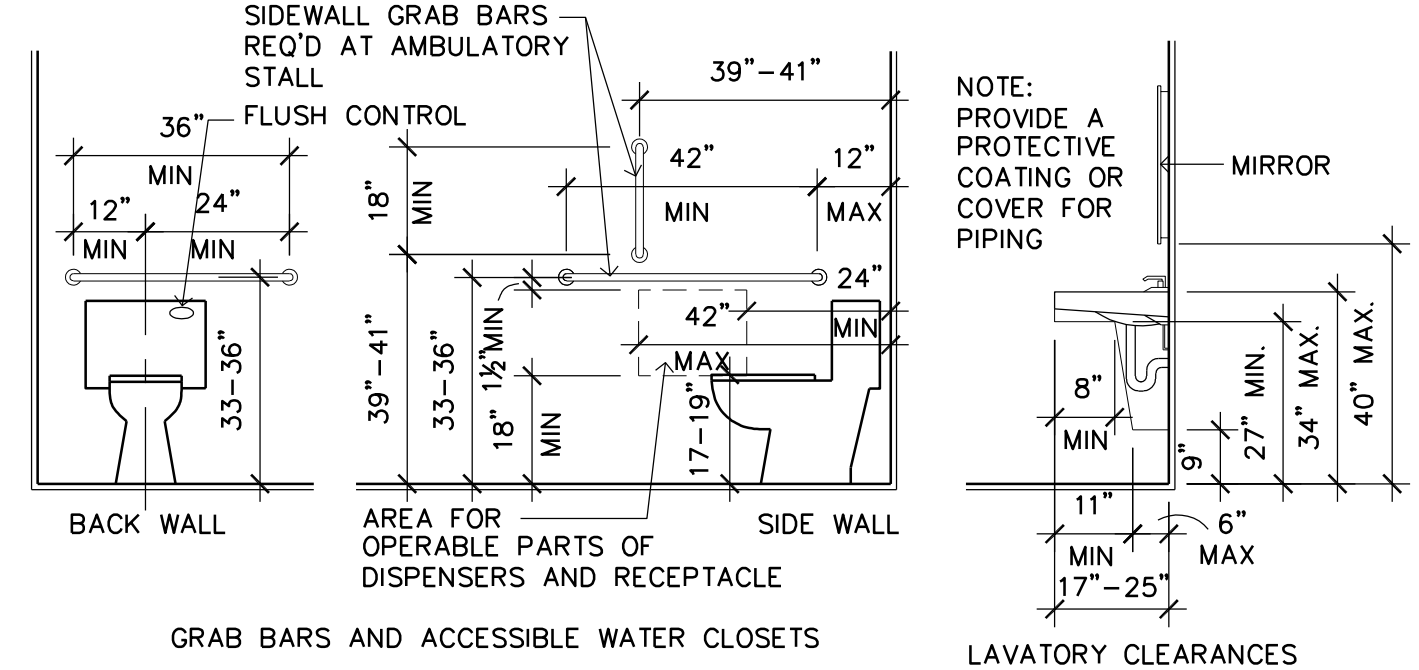
ALL WALL-MOUNTED DISPENSERS, WASTE DISPOSAL CONTAINERS, OR SIMILAR TOILET ACCESSORIES SHALL BE MOUNTED SO THAT THE OPERABLE PORTIONS OF SUCH ACCESSORIES COMPLIES WITH AN UNOBSTRUCTED FRONT OR SIDE REACH. THE MAXIMUM UNOBSTRUCTED REACH RANGE IS BETWEEN 15" AND 48" ABOVE THE FINISHED FLOOR. OBSTRUCTIONS PROTRUDING 20-25 FROM A WALL SHALL LIMIT THE HIGH REACH TO 44" MAXIMUM ABOVE THE FINISHED FLOOR.

INTERIOR FINISHES

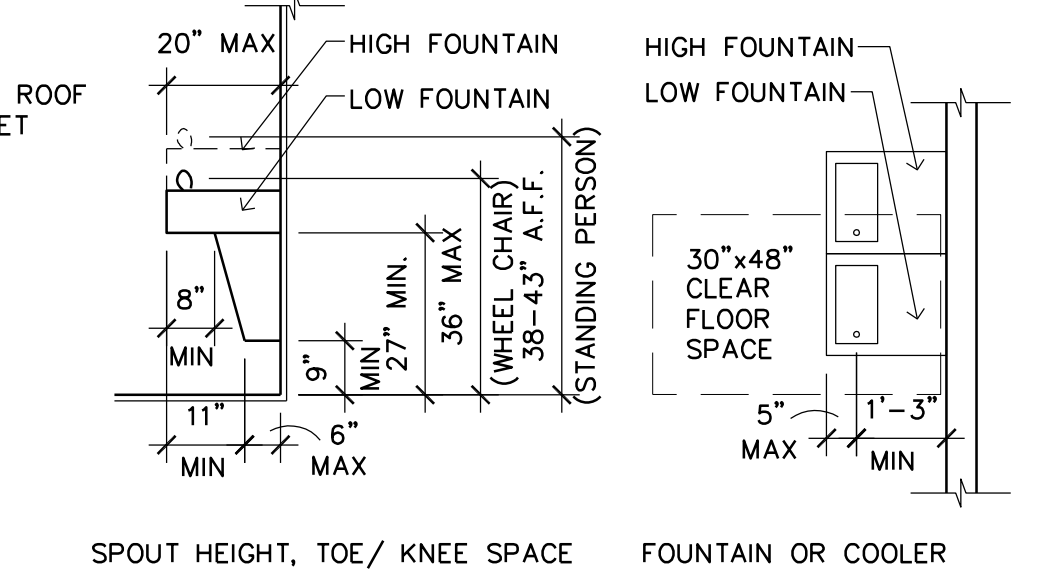
FLOORS IN TOILET, SHOWER, AND BATHING ROOMS ACCESSIBLE TO THE PUBLIC SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE SUCH AS CERAMIC TILE AND SHALL EXTEND UP THE WALLS AT LEAST 4". (IBC 1210.2.1) WALLS WITHIN 2 FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE, TO 4 FEET A.F.F. (IBC 1210.2.2) SHOWER COMPARTMENT AND BATHTUB WALLS WITH SHOWER HEADS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE SUCH AS CERAMIC TILE TO 70" ABOVE THE DRAIN. (IBC 1210.2.3)

SIGNAGE

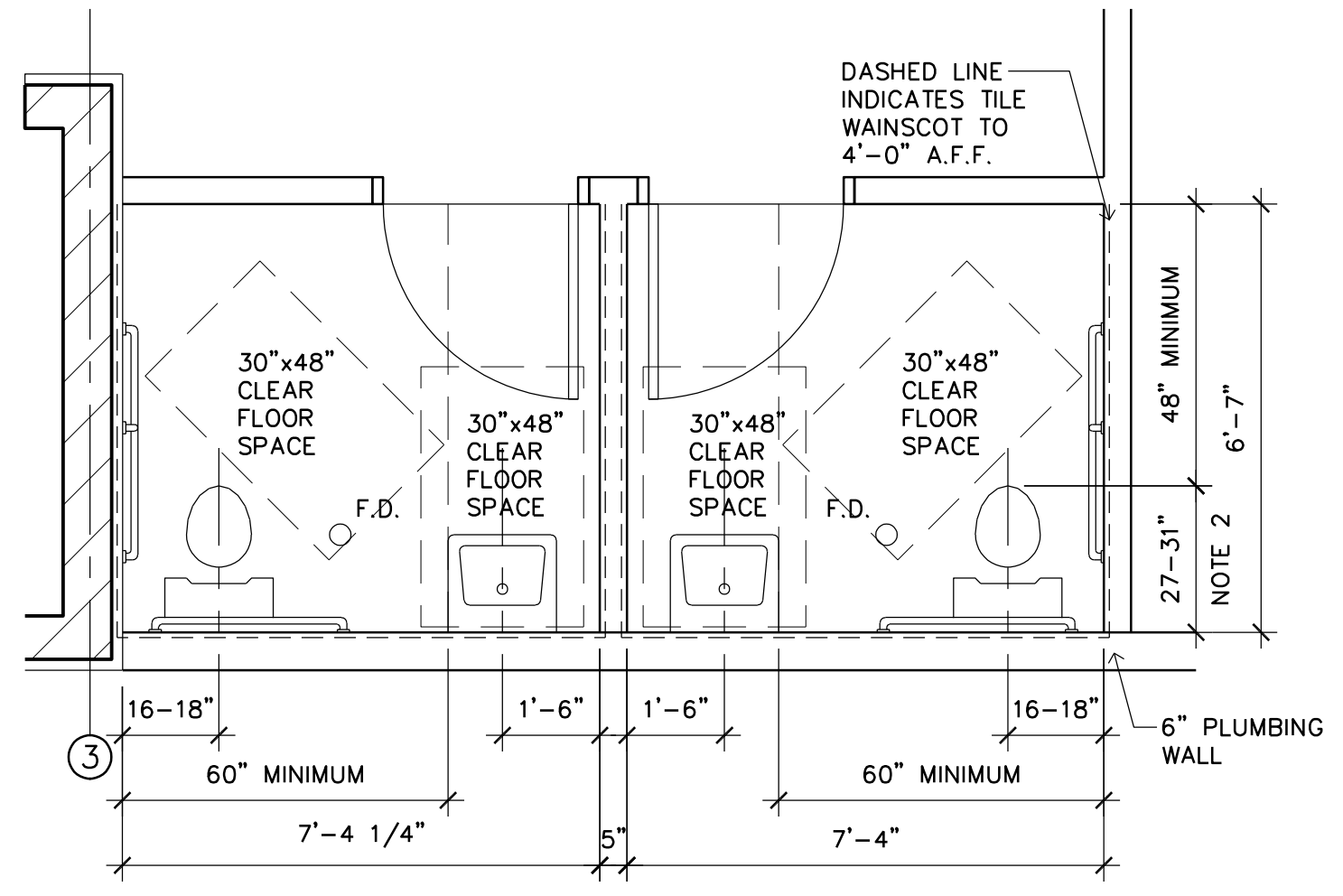
IDENTIFICATION SIGNAGE SHALL BE PROVIDED AT TOILET ROOMS, THE SIGNAGE SHALL INCLUDE TACTILE LETTERS INDICATING THE NAME OF THE SPACE, THE INTERNATIONAL SYMBOL OF ACCESSIBILITY, AND BRAILLE CHARACTERS ACCORDING TO CHAPTER 703. MOUNT THE SIGN CENTERED AT 9" FROM THE LATCH SIDE OF THE DOOR AND MOUNT THE SIGN 48"-60" ABOVE THE FINISHED FLOOR.



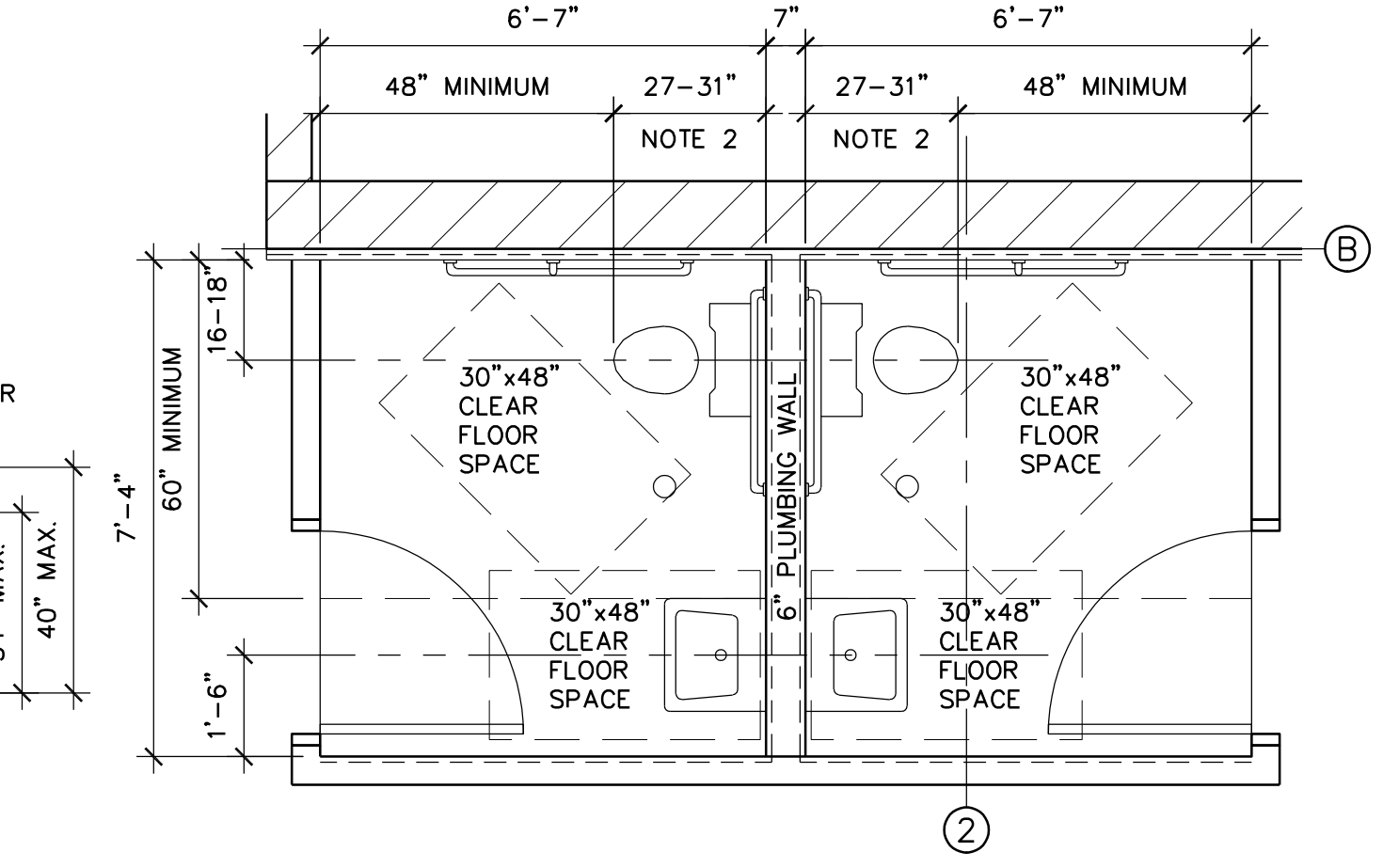
2 RESTROOM DETAILS & NOTES
A7 SCALE: 3/8" = 1'-0"



5 ACCESSIBLE DRINKING FOUNTAIN
A7 SCALE: 3/8" = 1'-0"

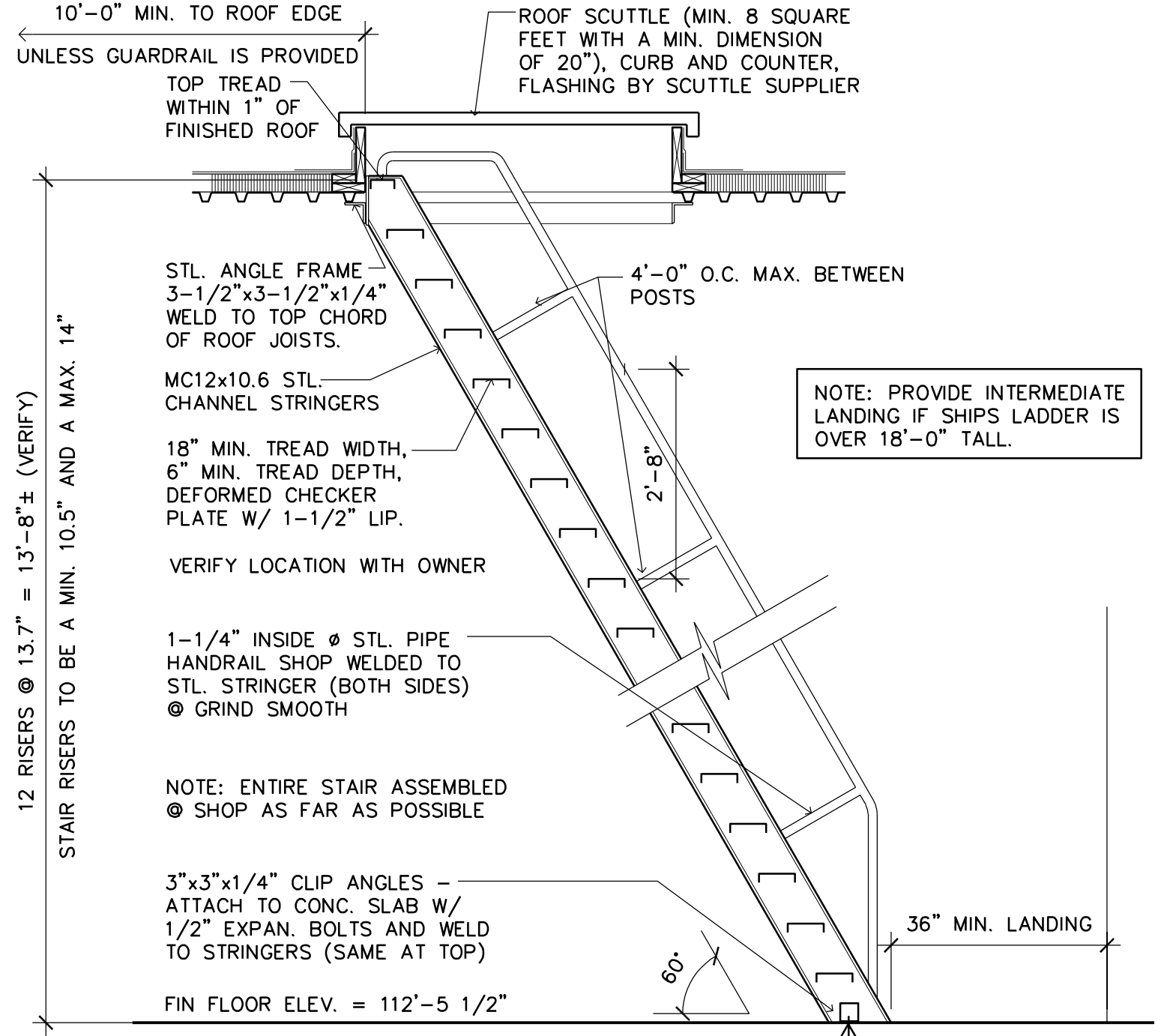


3 ENLARGED RESTROOM PLAN
A7 SCALE: 3/8" = 1'-0"

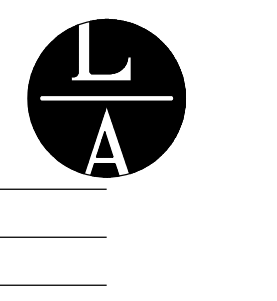


4 ENLARGED RESTROOM PLAN
A7 SCALE: 3/8" = 1'-0"

- RESTROOM PLAN NOTES:
- SEE 2/A8 FOR FIXTURE, ACCESSORY, AND FINISH NOTES AND DETAILS
 - 27" = WALL MOUNTED TOILET
 - 31" = FLOOR MOUNTED TOILET



6 SHIPS LADDER DETAIL
A7 SCALE: 1/2" = 1'-0"



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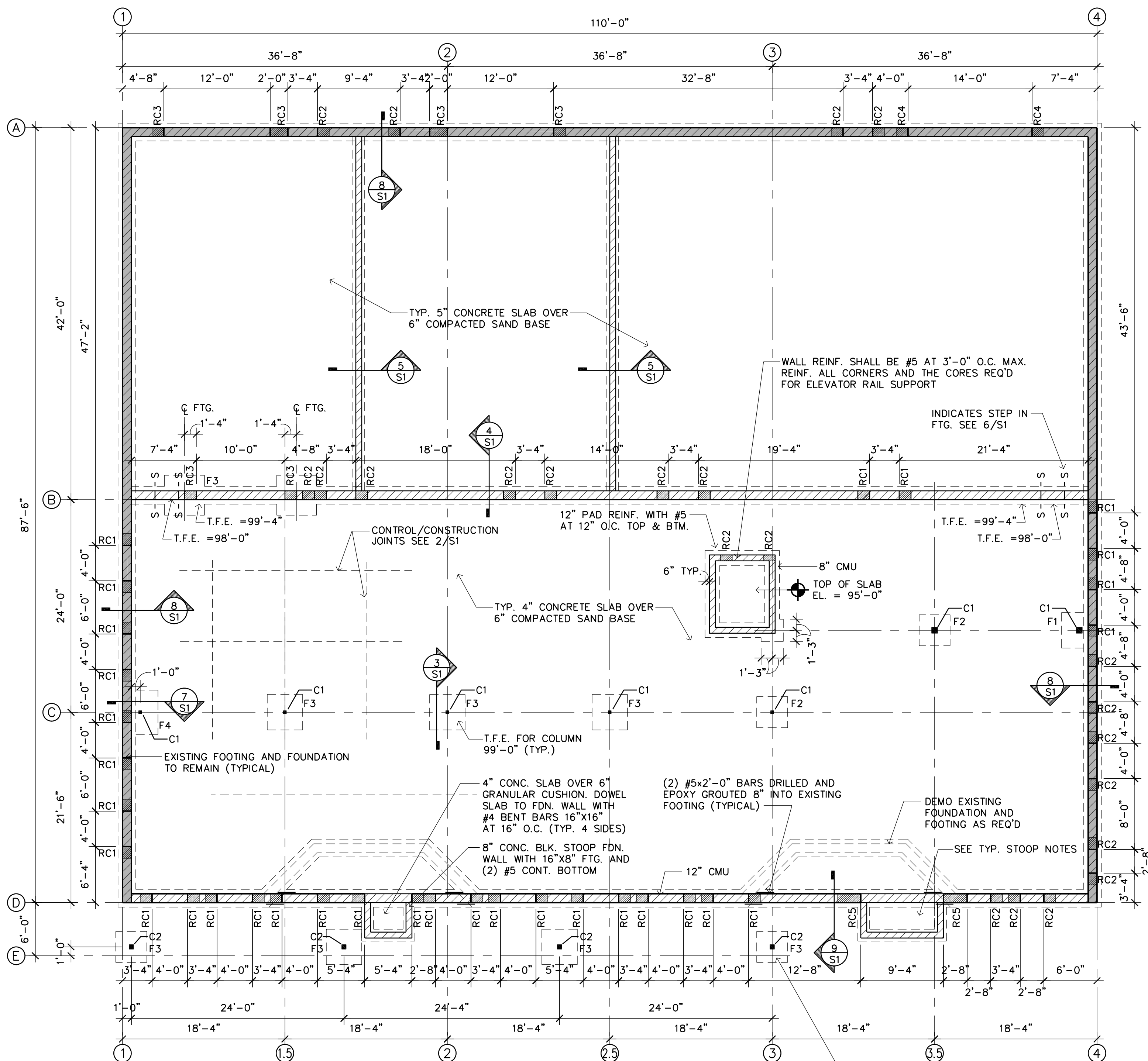
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ROOF PLAN AND RESTROOM DETAILS
Sheet Number

A7

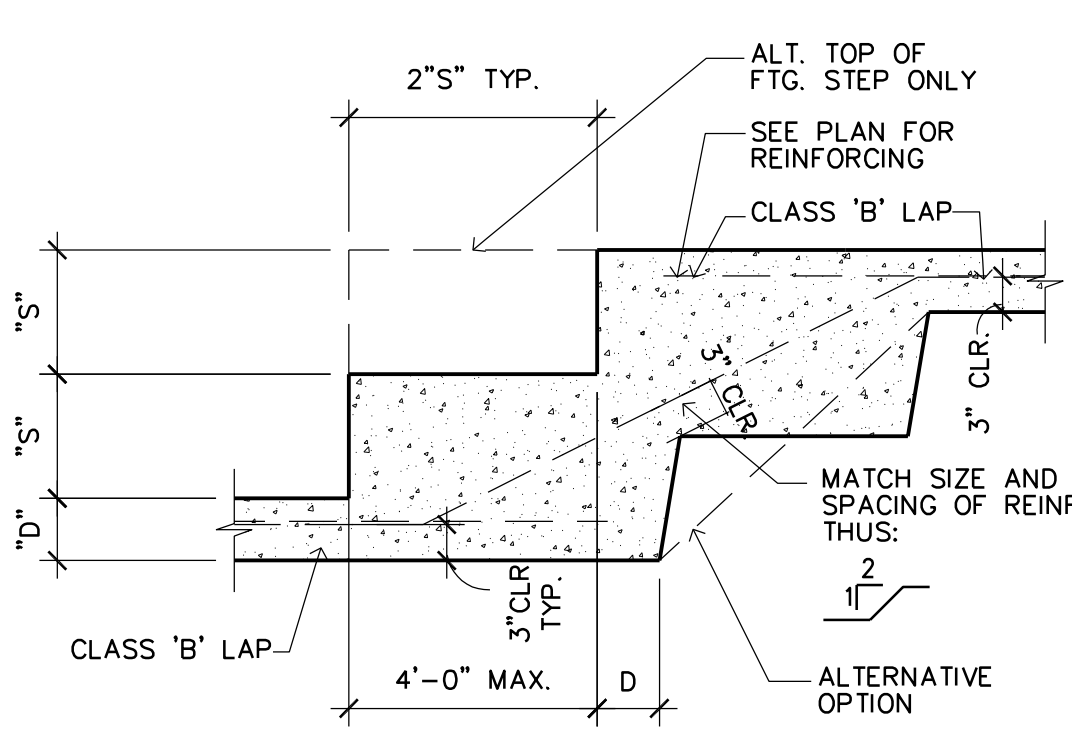


1 FOUNDATION PLAN
S1 SCALE: 1/8" = 1'-0"

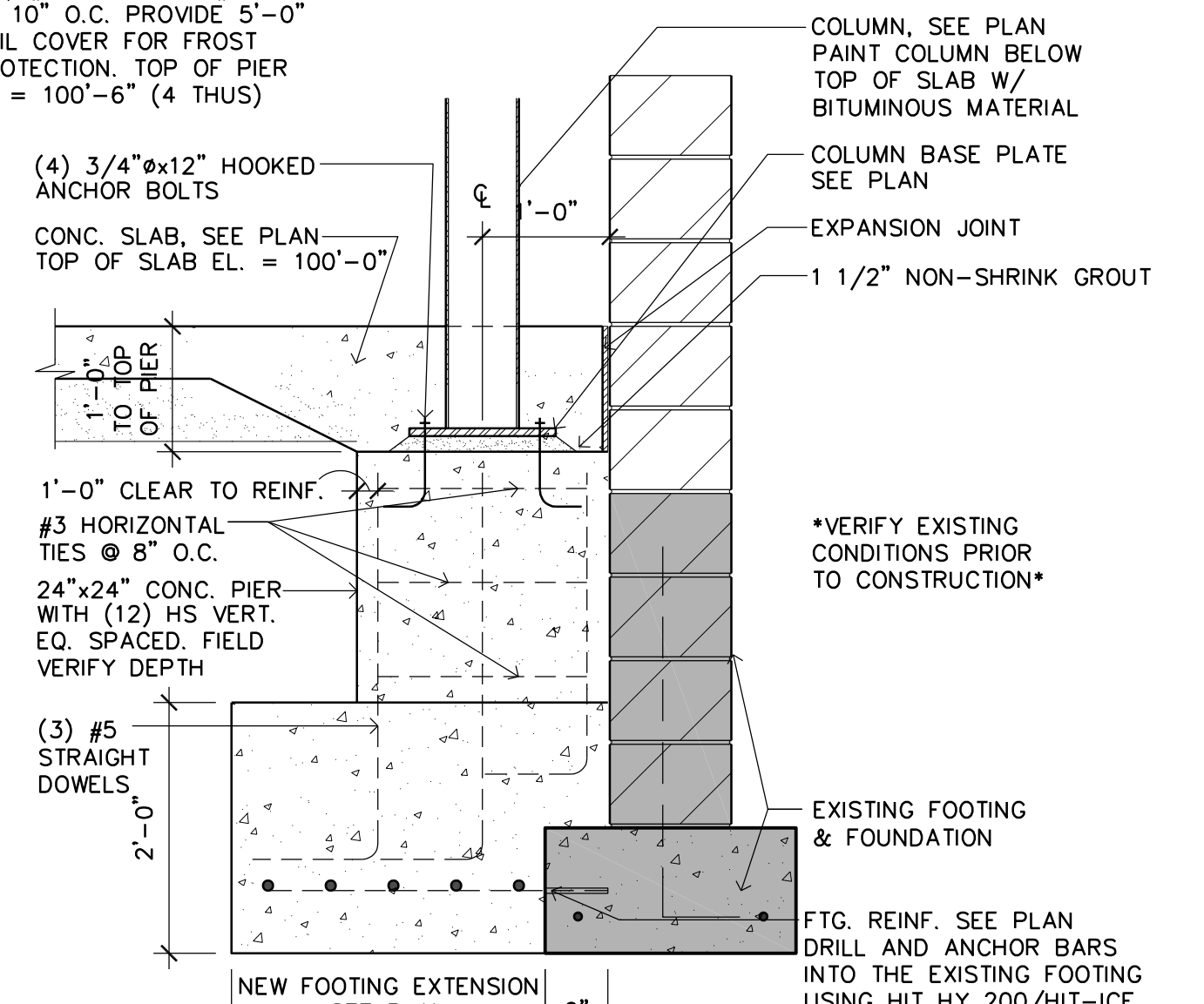
JAMB SCHEDULE			
MARK	WIDTH	REINFORCEMENT	REMARKS
RC1	8"	1-#5 EACH CORE	---
RC2	16"	1-#5 EACH CORE	---
RC3	24"	1-#5 EACH CORE	---
RC4	32"	1-#5 EACH CORE	---
RC5	32"	2-#5 EACH CORE	---

NOTES:
1. CONTROL JOINTS SHALL NOT BE LOCATED WITHIN SOLID GROUTED JAMBS, U.N.O.
2. JAMBS SHALL BE PROVIDED ON EACH SIDE OF EVERY OPENING. SEE ARCH. AND FRAMING PLANS FOR OPENING SIZES AND LOCATIONS

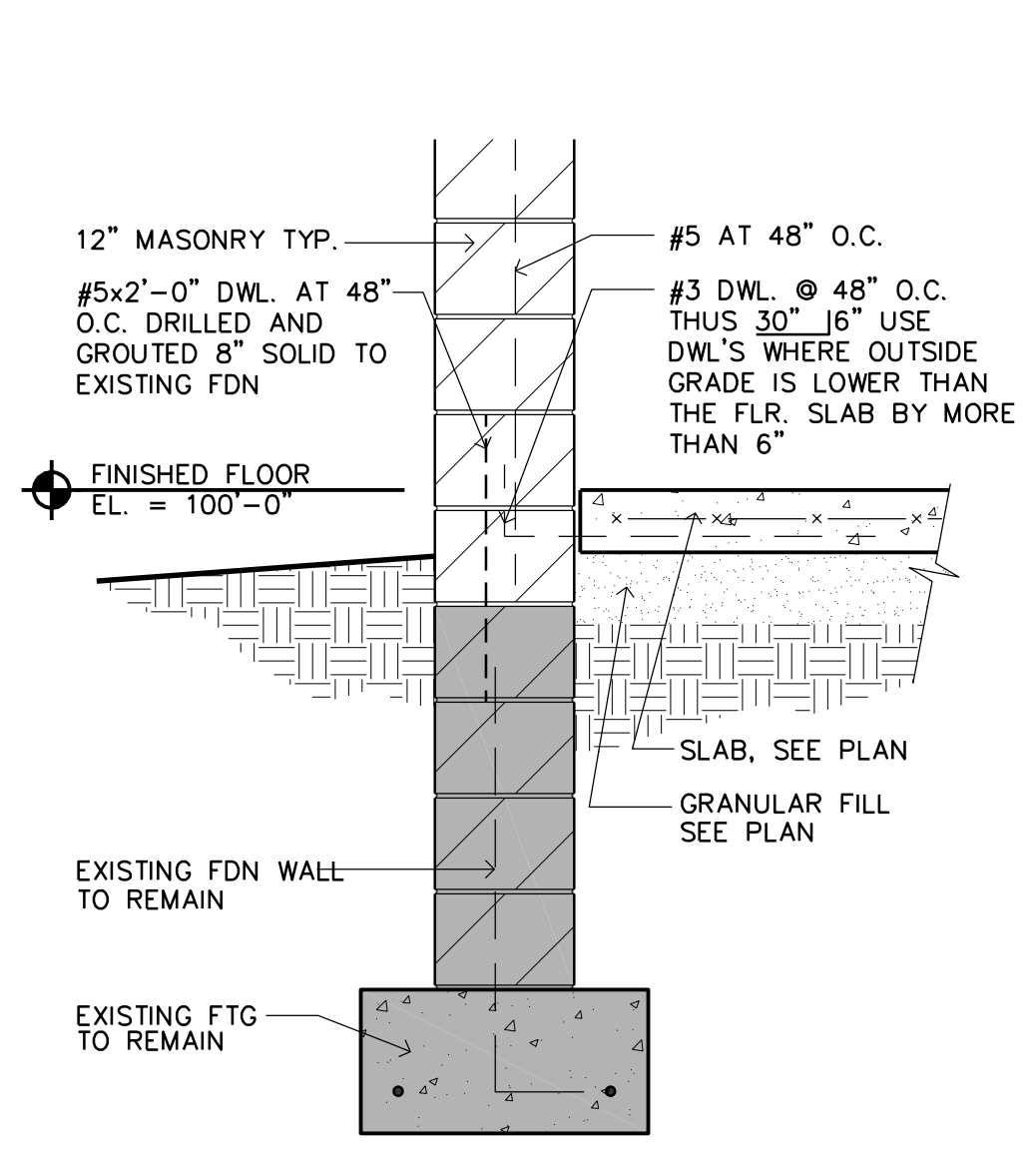
PLAN NOTES:
1. TOP OF SLAB ELEVATION (TSE) = 100'-0"
2. TOP OF EXTERIOR FOOTING ELEVATION (TFE) TO MATCH EXISTING FOOTING (FIELD VERIFY)
3. TYPICAL PERIMETER FOOTING SHALL BE 2'-0" WIDE X 12" DEEP WITH 2-#5 CONT. AT BOTTOM U.N.O.
4. TYPICAL WALL REINFORCEMENT SHALL BE (1) #5 CENTERED IN EACH CORE AT 48" O.C. FULL HEIGHT OF WALL U.N.O.
5. PROVIDE WALL REINFORCEMENT AT ALL CORNERS AND IN THE CORES ON BOTH SIDES OF THE CONTROL JOINTS.
6. CONTROL JOINTS SHALL STOP AT GRADE LEVEL.



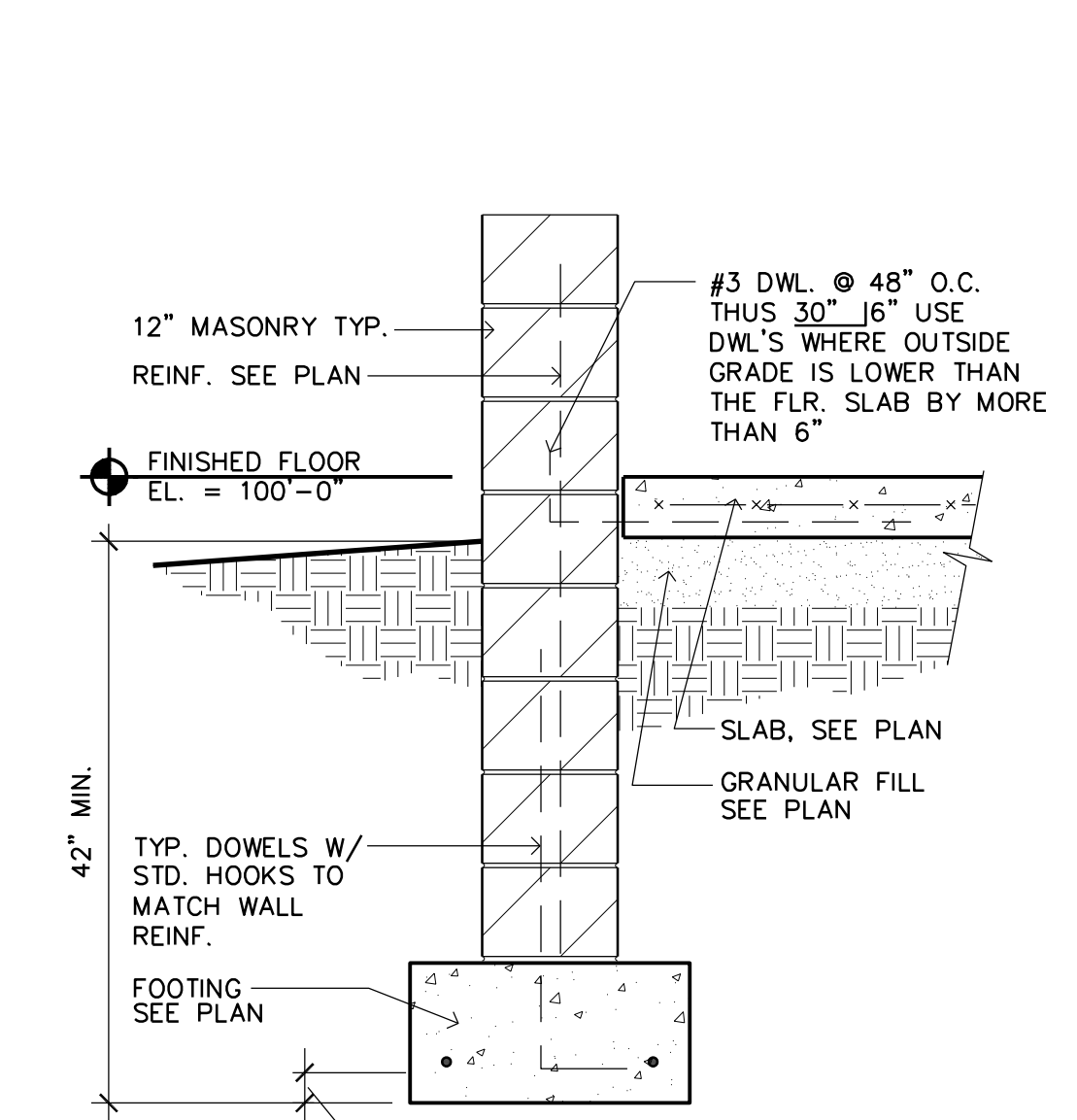
6 STEP FOOTING
S1 SCALE: 3/4" = 1'-0"



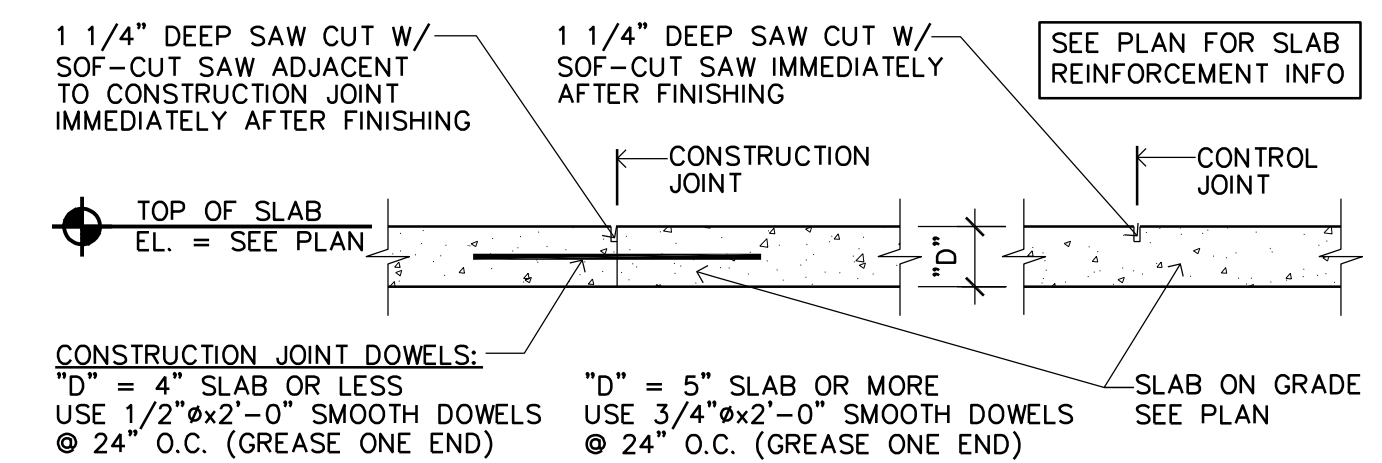
7 NEW PIER AT EXISTING FOUNDATION
S1 SCALE: 3/4" = 1'-0"



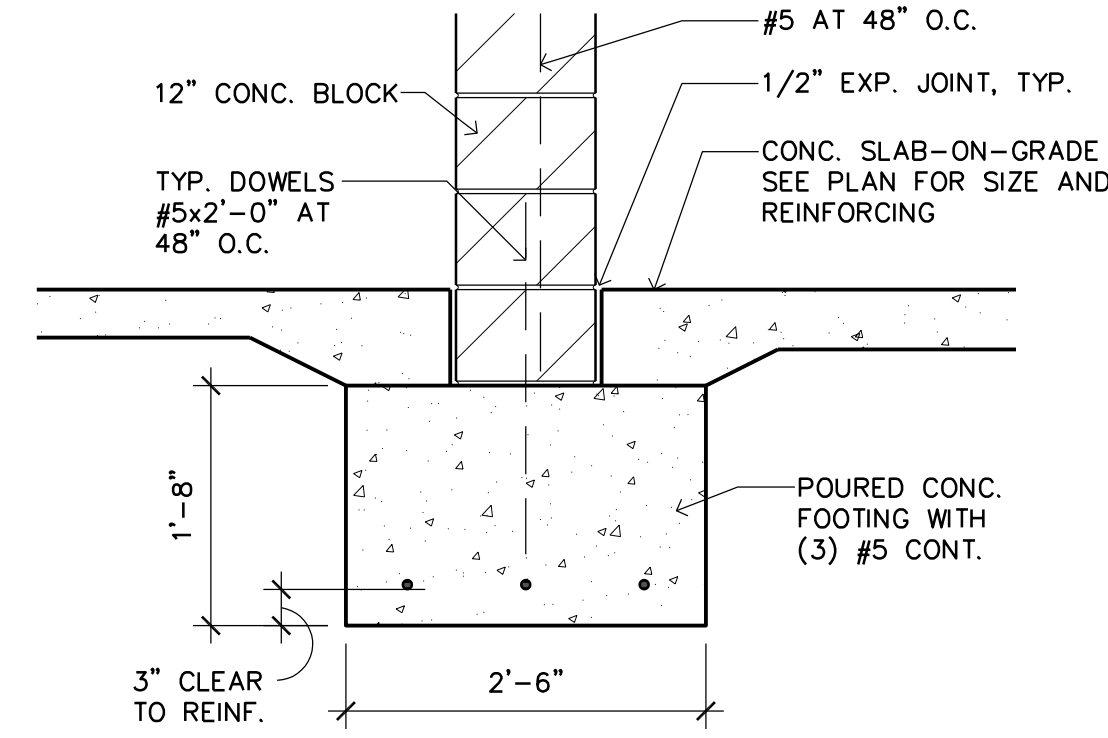
8 EXT. WALL SECTION
S1 SCALE: 3/4" = 1'-0"



9 EXT. WALL SECTION
S1 SCALE: 3/4" = 1'-0"



2 TYPICAL CONST. JOINT / CONTROL JOINT DETAIL
S1 SCALE: 3/4" = 1'-0"



3 TYPICAL DETAIL
S1 SCALE: 3/4" = 1'-0"

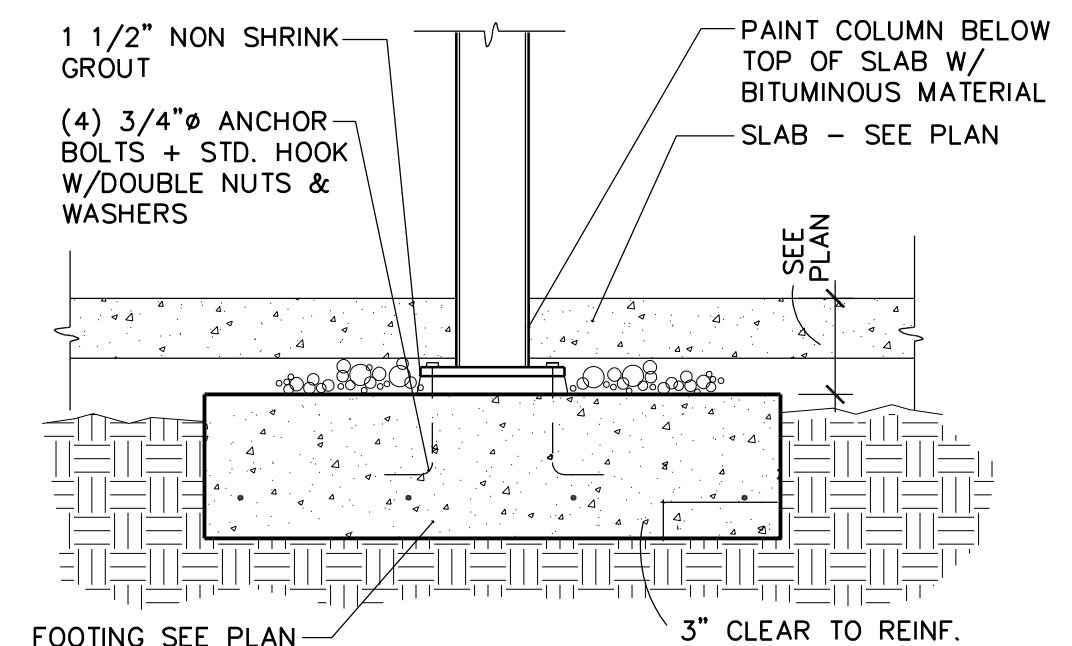


4 DETAIL @ LOAD BEARING WALL
S1 SCALE: 3/4" = 1'-0"

FOOTING SCHEDULE			
MARK	SIZE	REINF. EACH REINFORCING	REMARKS
F1	3'-0"x3'-0"x12"	4-#4 EA. WAY	---
F2	3'-6"x3'-6"x12"	5-#4 EA. WAY	---
F3	4'-0"x4'-0"x12"	6-#4 EA. WAY	---
F4	3'-0"x5'-0"x12"	5-#4 (LONG) 7-#4 (SHORT)	---

NOTES:
1. CENTERLINE OF FOOTING SHALL LINE UP WITH CENTERLINE OF COLUMN, U.N.O.

STEEL COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	REMARKS
C1	HSS 4x4x5/16	3/4"x10"x0'-9"	---
C2	HSS 6x6x1/4	3/4"x12"x1'-0"	---



5 SECTION NON-BEARING CMU
S1 SCALE: 3/4" = 1'-0"

NOTE:
1. 8" THICK INTERIOR CMU WALLS MUST BE BRACED AT THE TOP.

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SIGNATURE
HENRY ESTEPHAN
PRINT NAME
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LICENSE NO.
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Structural Engineer: H ESTEPHAN

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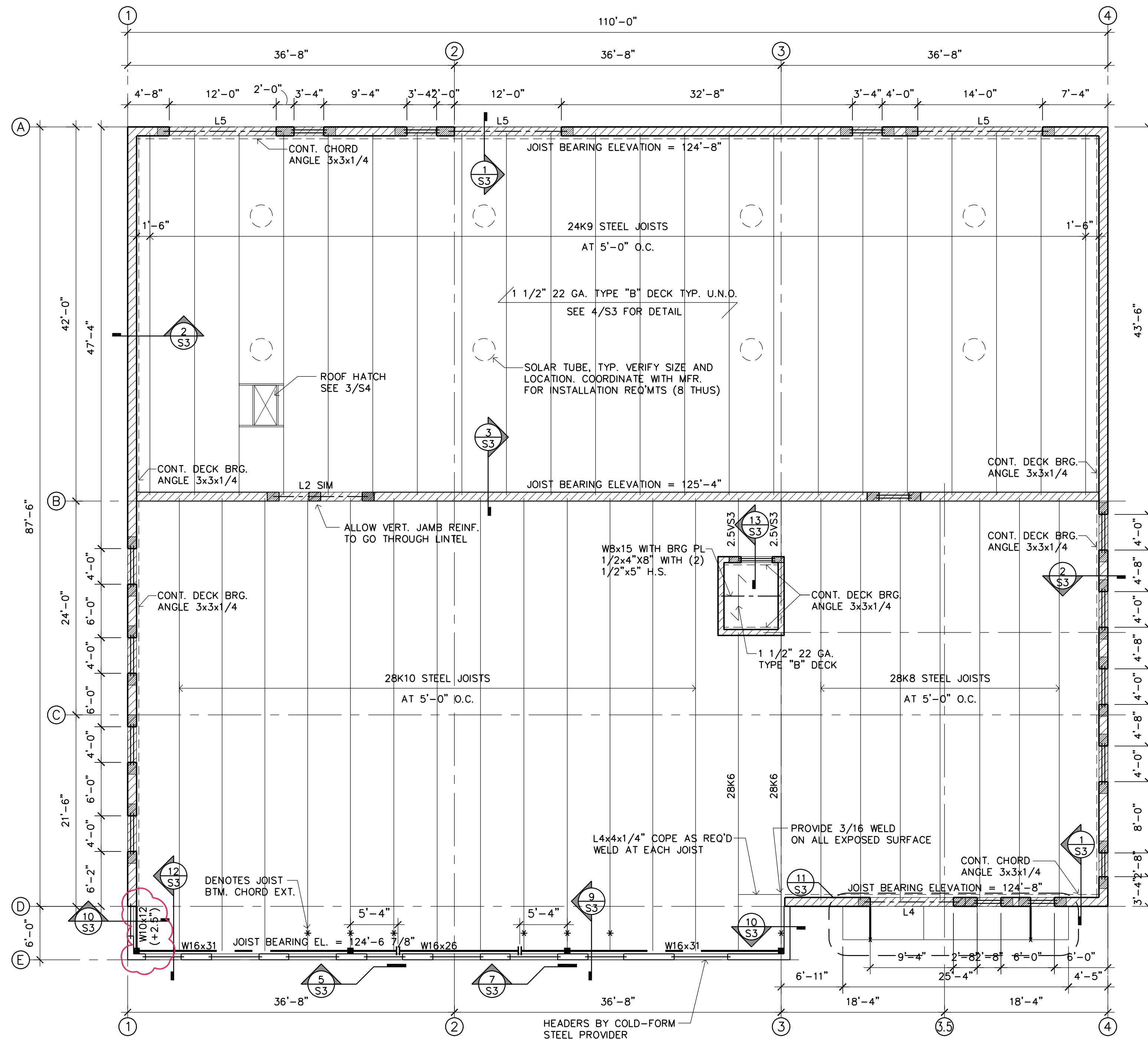
FOUNDATION PLAN AND DETAILS

Sheet Number

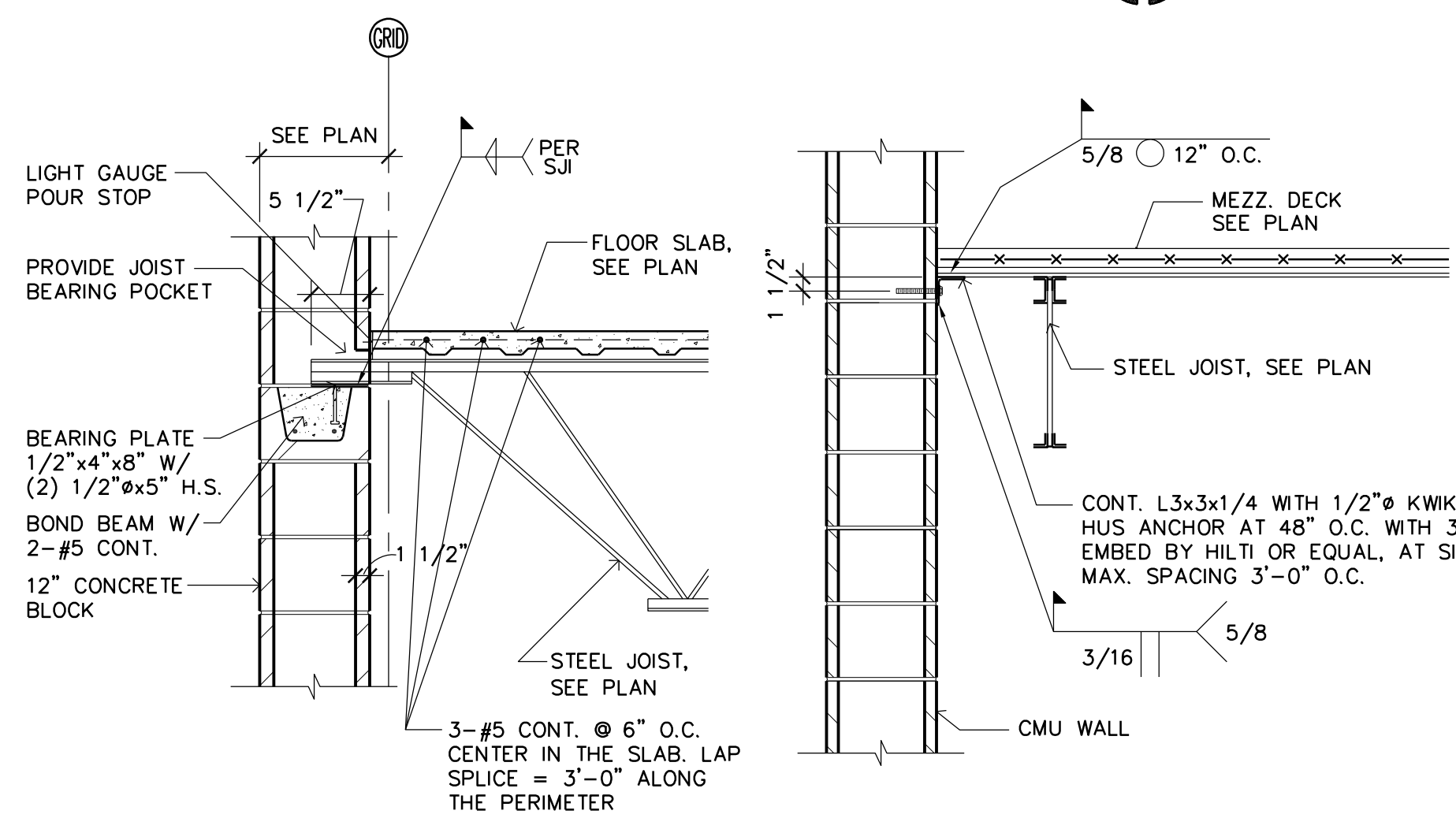
S1

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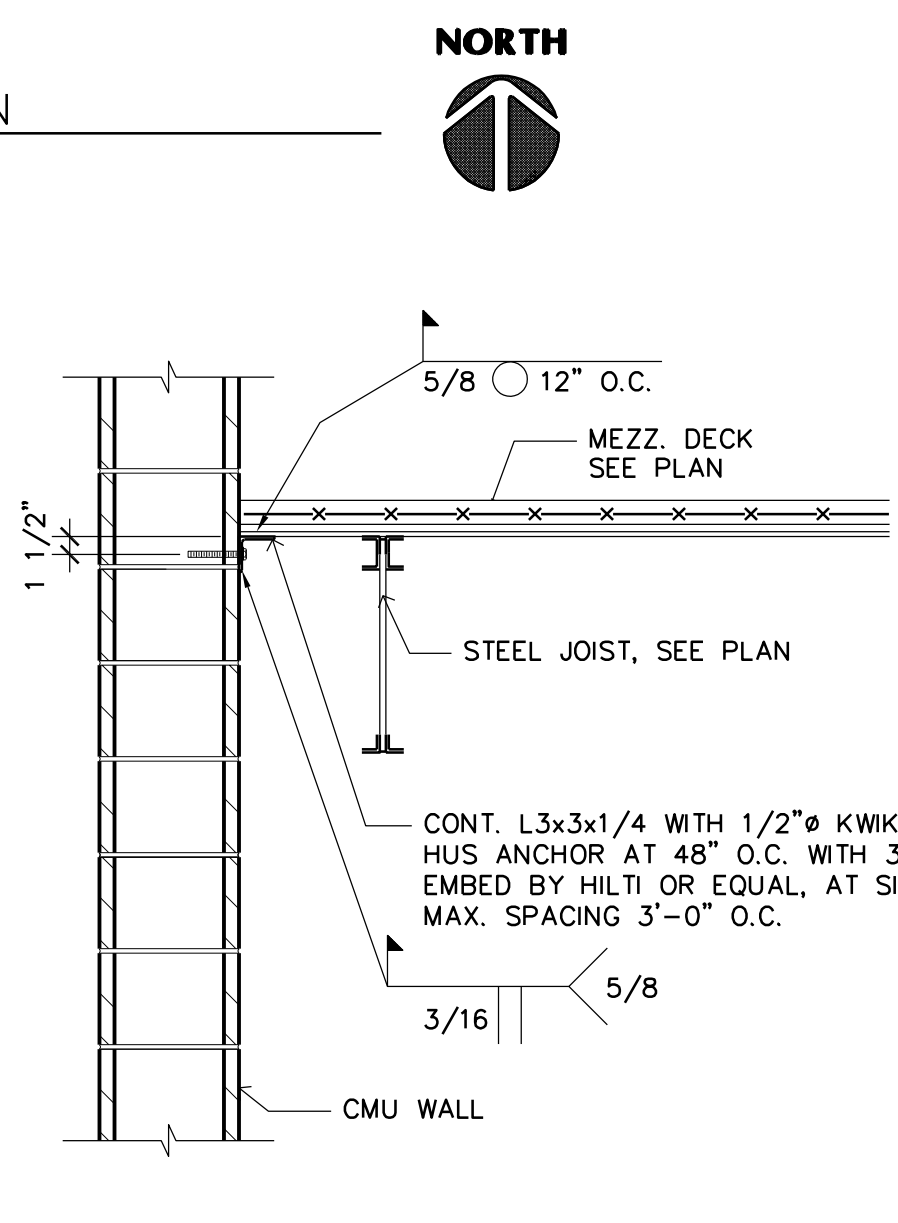
File: Murphy Bros\Murphy Bros - S2.dwg



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



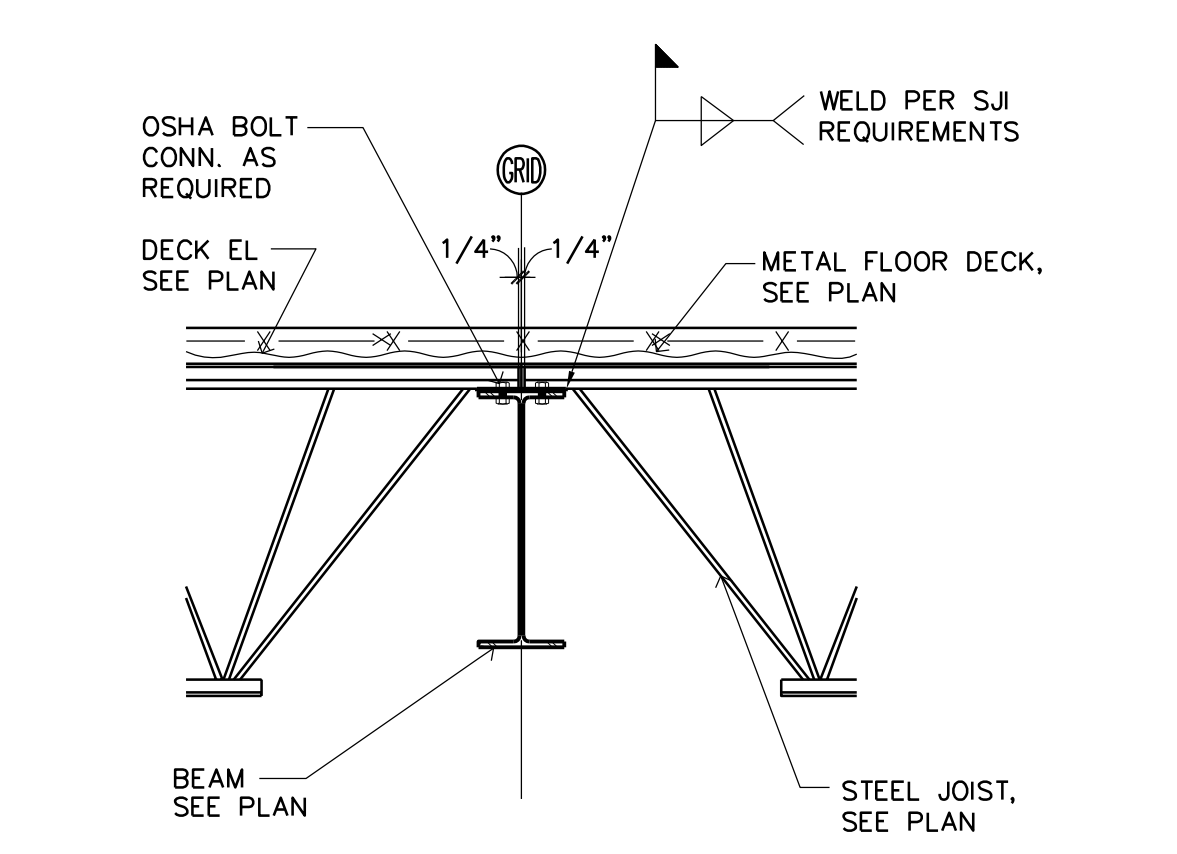
6 TYPICAL DETAIL
SCALE: 3/4" = 1'-0"



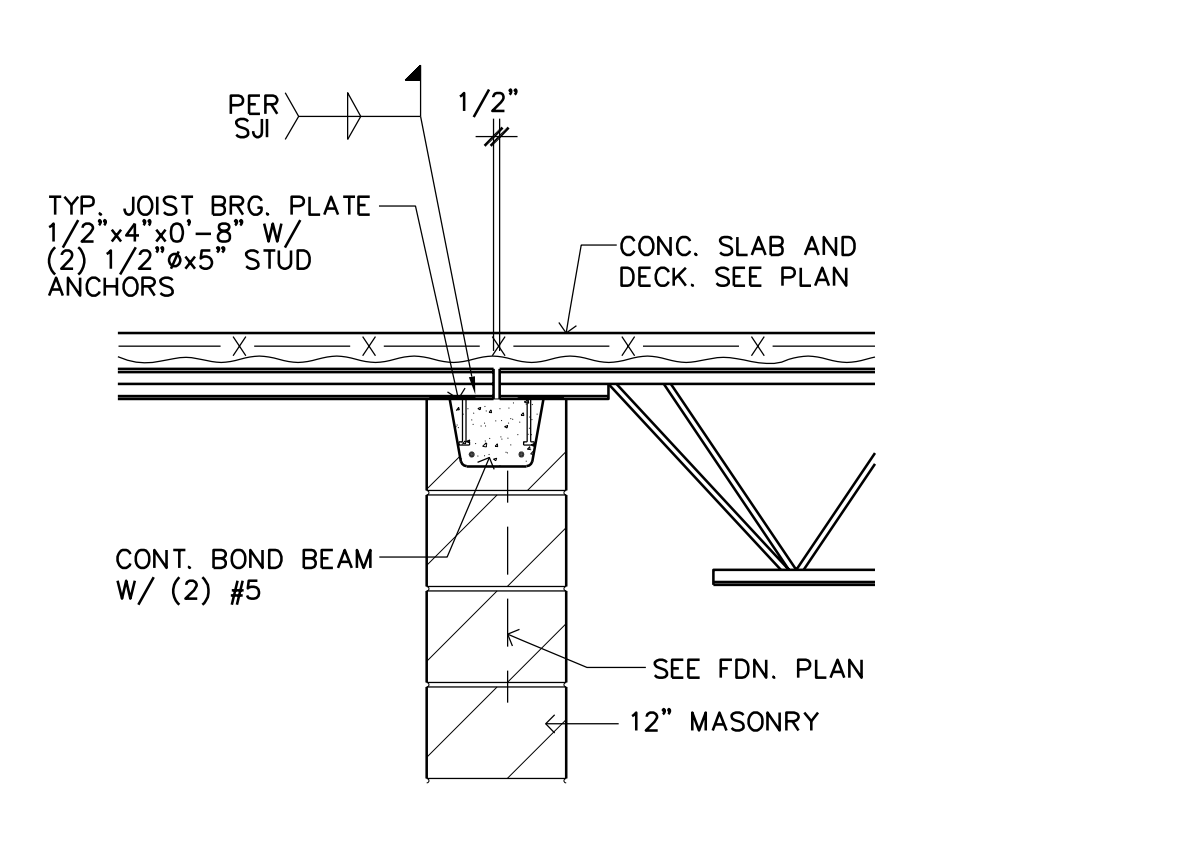
7 TYPICAL DETAIL
SCALE: 3/4" = 1'-0"

MARK	SIZE	BEARING PLATES	REMARKS
L1	8" BOND BEAM WITH (2) #5 BARS	NOT REQUIRED	-
L2	16" BOND BEAM WITH (2) #5 BARS	NOT REQUIRED	AT SIMILAR PROVIDE REINF. TOP & BOT.
L3	W8X10 1/4"x11" BTM. PL.	3/8" x 8"x8"	-
L4	W8X31 1/4"x11" BTM. PL.	1/2" x 8"x8"	-
L5	W16X26 1/4"x11" BTM. PL.	1/2" x 8"x8"	-

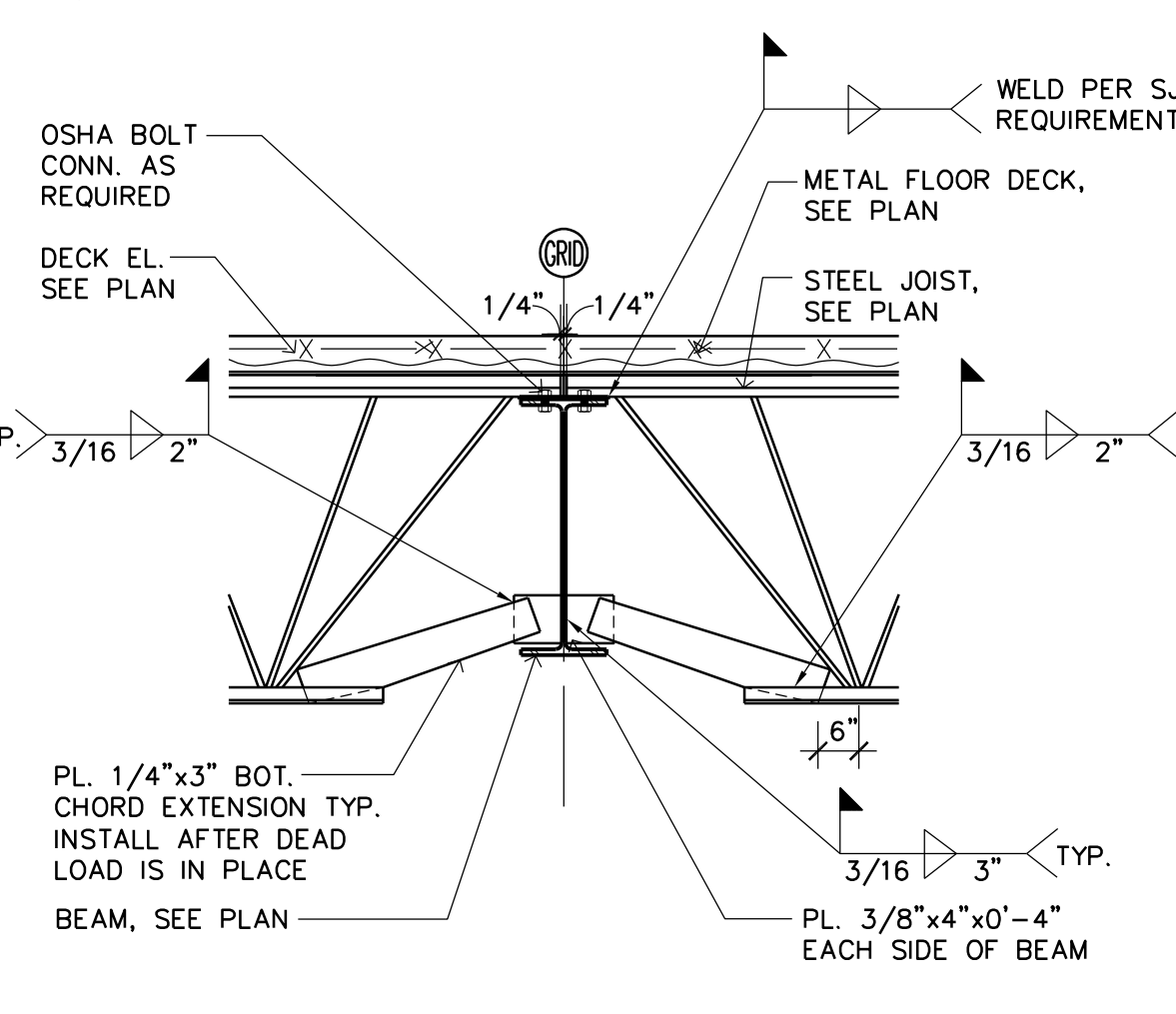
NOTES:
1. TYPICAL LINTEL SHALL BE L1 UNLESS NOTED



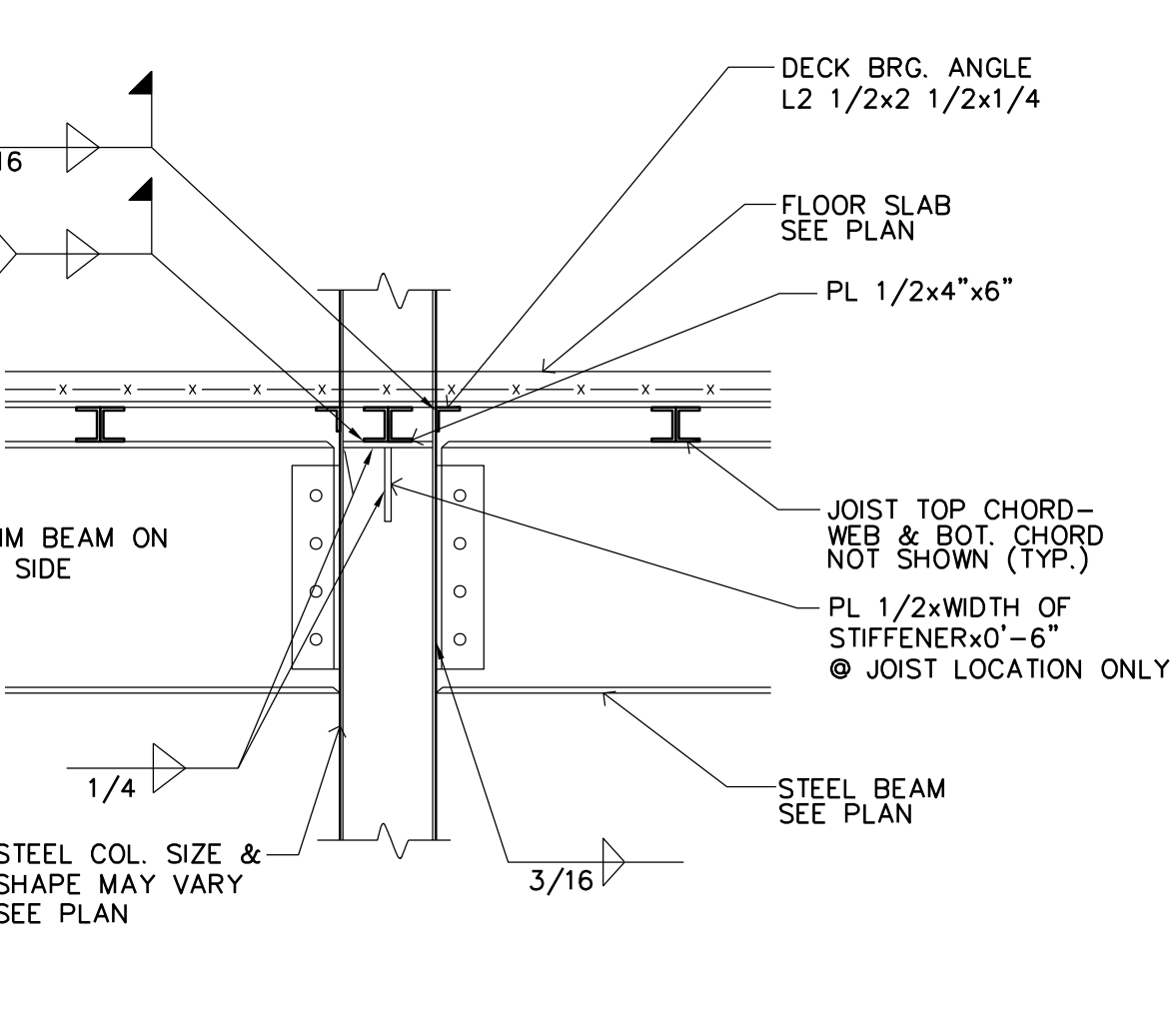
2 TYPICAL JOIST BEARING AT BEAM
SCALE: 3/4" = 1'-0"



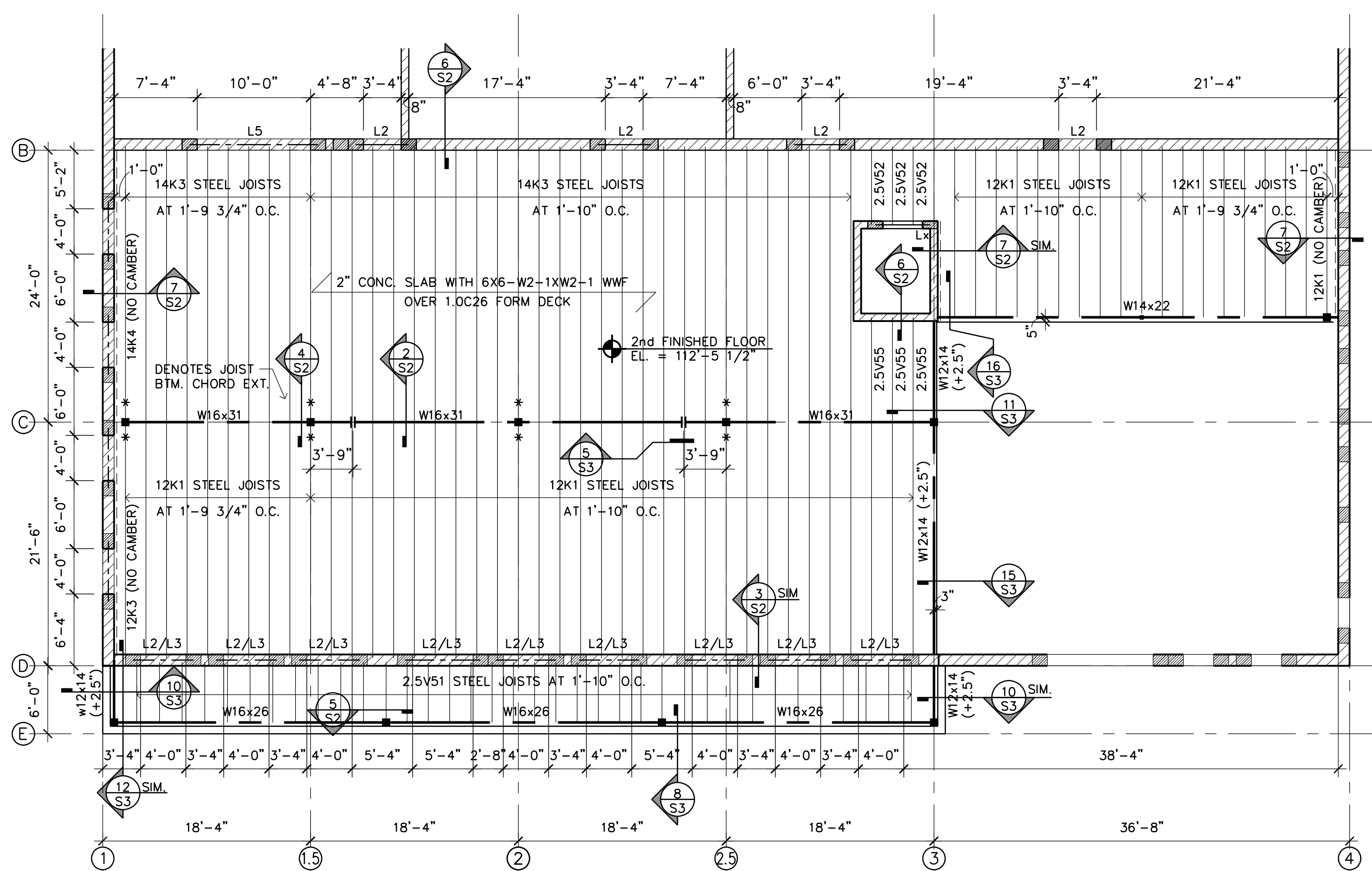
3 JOIST BEARING AT BEARING WALL
SCALE: 3/4" = 1'-0"



4 BOTTOM CHORD EXTENSION AT BEAM
SCALE: 3/4" = 1'-0"



5 TYPICAL DETAIL
SCALE: 3/4" = 1'-0"



8 2nd FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"

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ENGINEER CERTIFICATION:
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SIGNATURE: *Henry Estephan*
HENRY ESTEPHAN
PRINT NAME
21541
LICENSE NO.
12/19/19
DATE

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Structural Engineer: H ESTEPHAN
Drawn By: LLS
Checked By: HE

Revisions

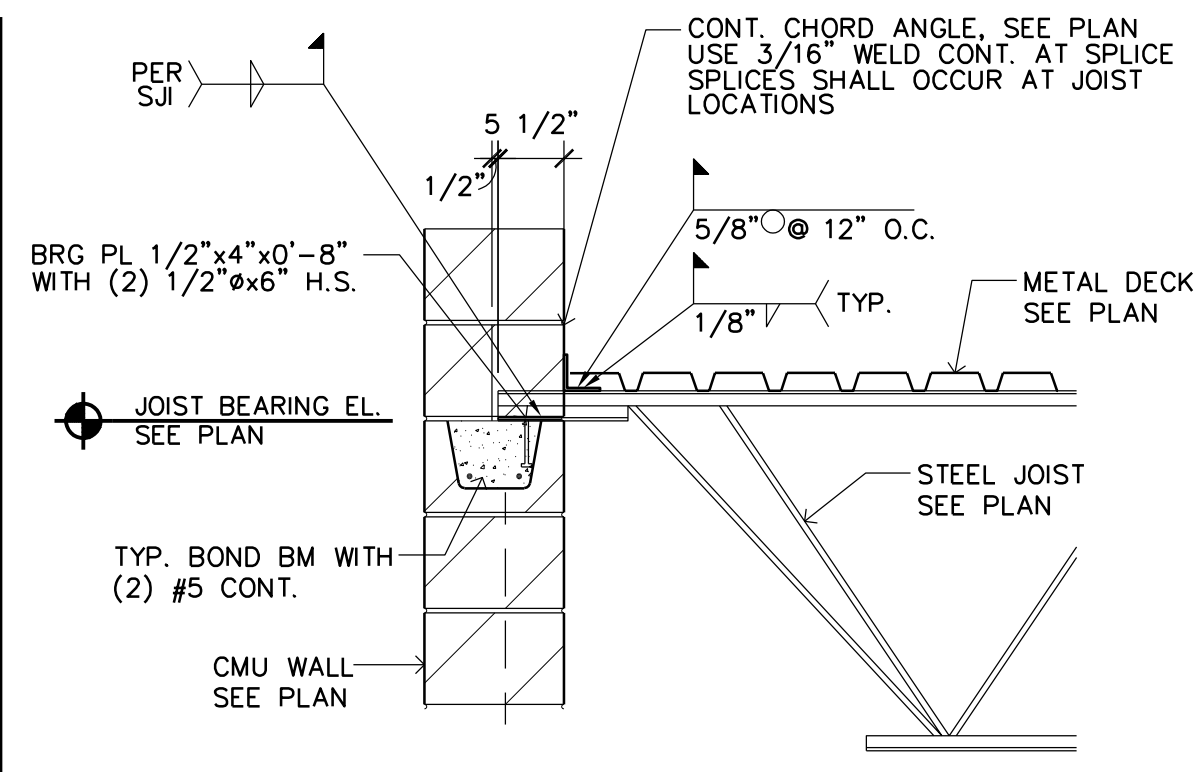
NO.	DATE	DESCRIPTION
1	12/19/19	FOR PERMIT

ROOF & 2nd FLOOR FRAMING PLANS AND DETAILS

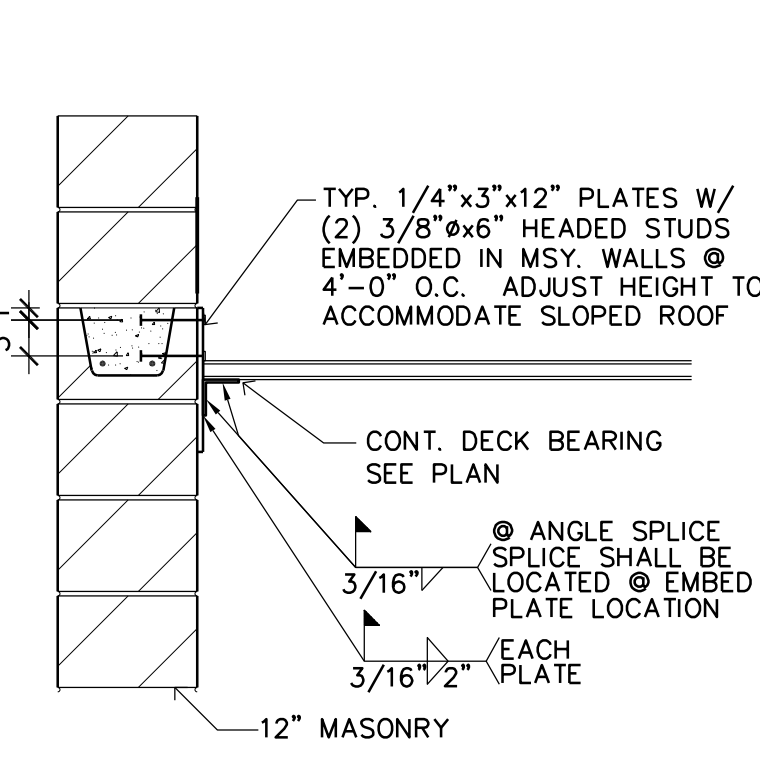
Sheet Number

S2

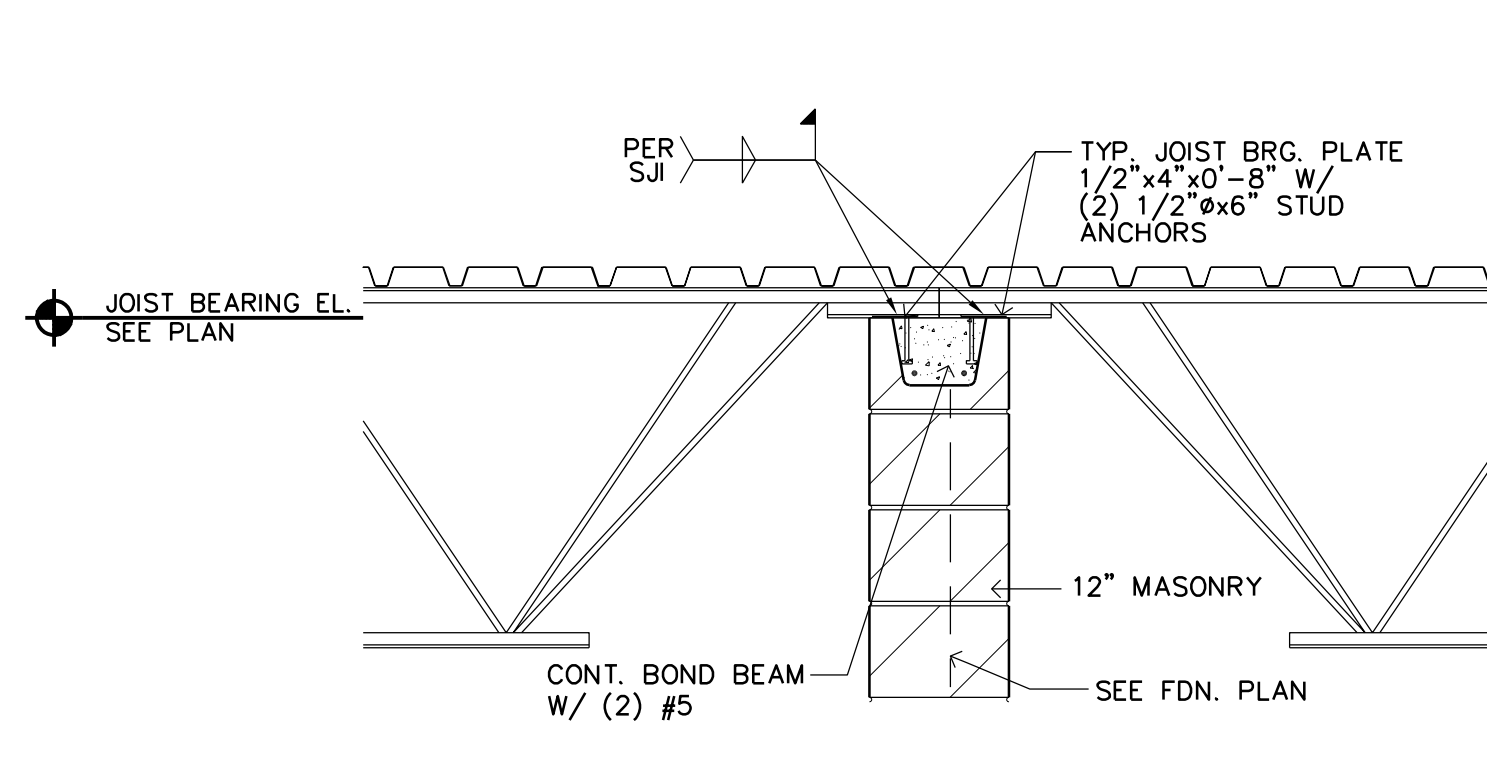
Project No. 190826-3



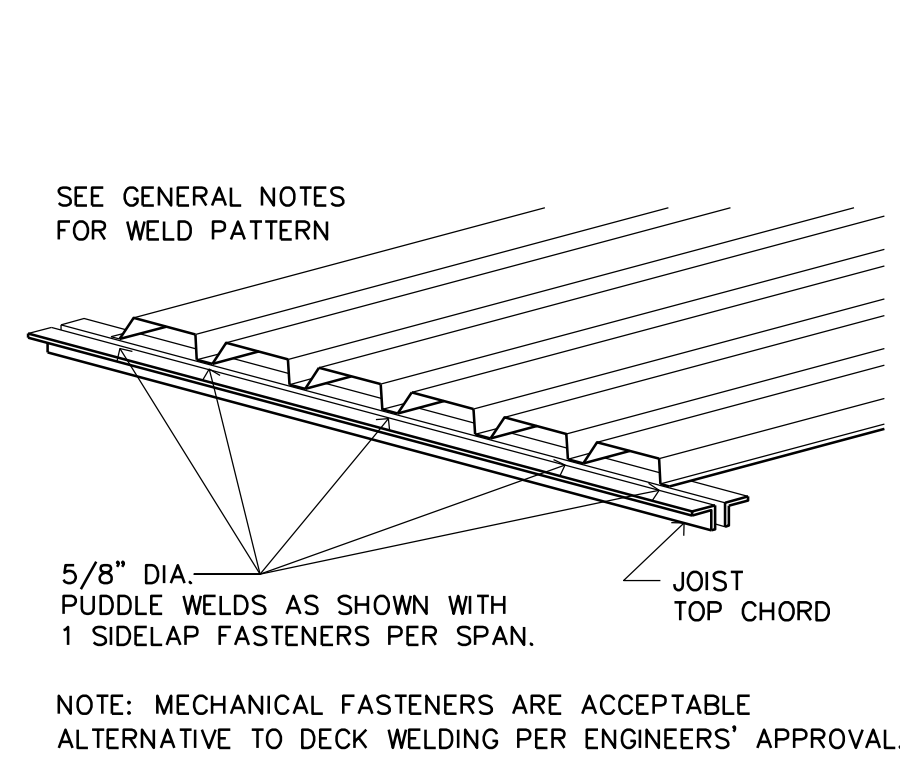
1 JOIST BEARING DETAIL
S3 SCALE: 3/4" = 1'-0"



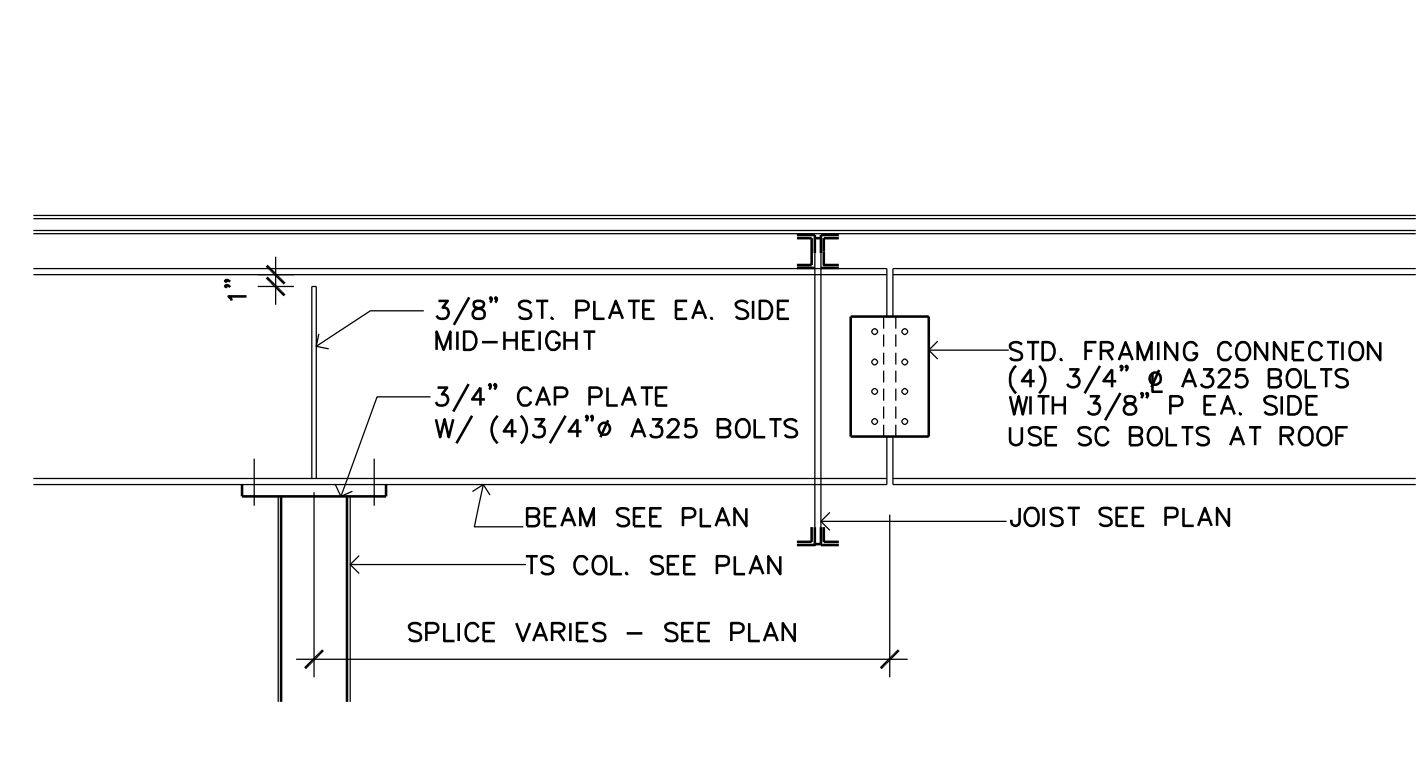
2 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



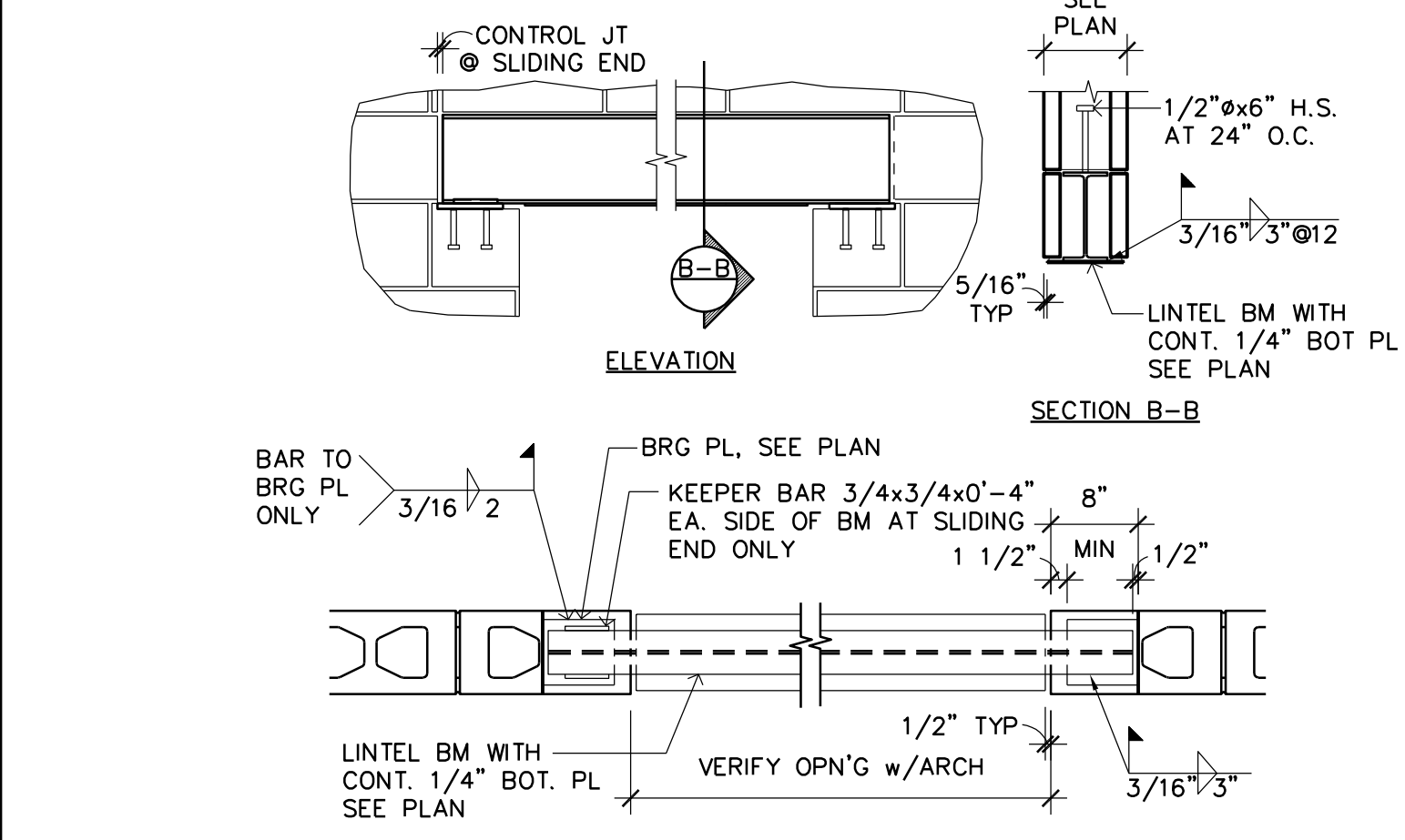
3 JOIST BEARING DETAIL
S3 SCALE: 3/4" = 1'-0"



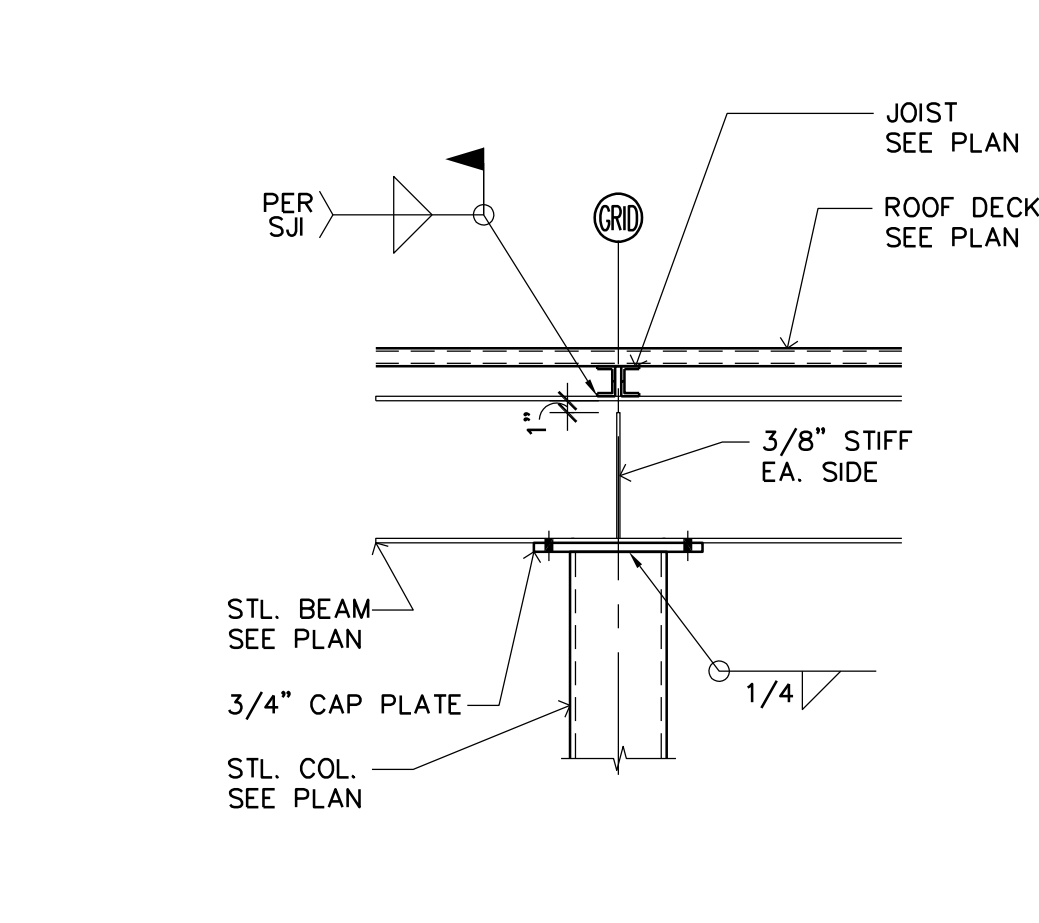
4 TYPICAL DECK FASTENING DETAIL
S3 SCALE: NOT TO SCALE



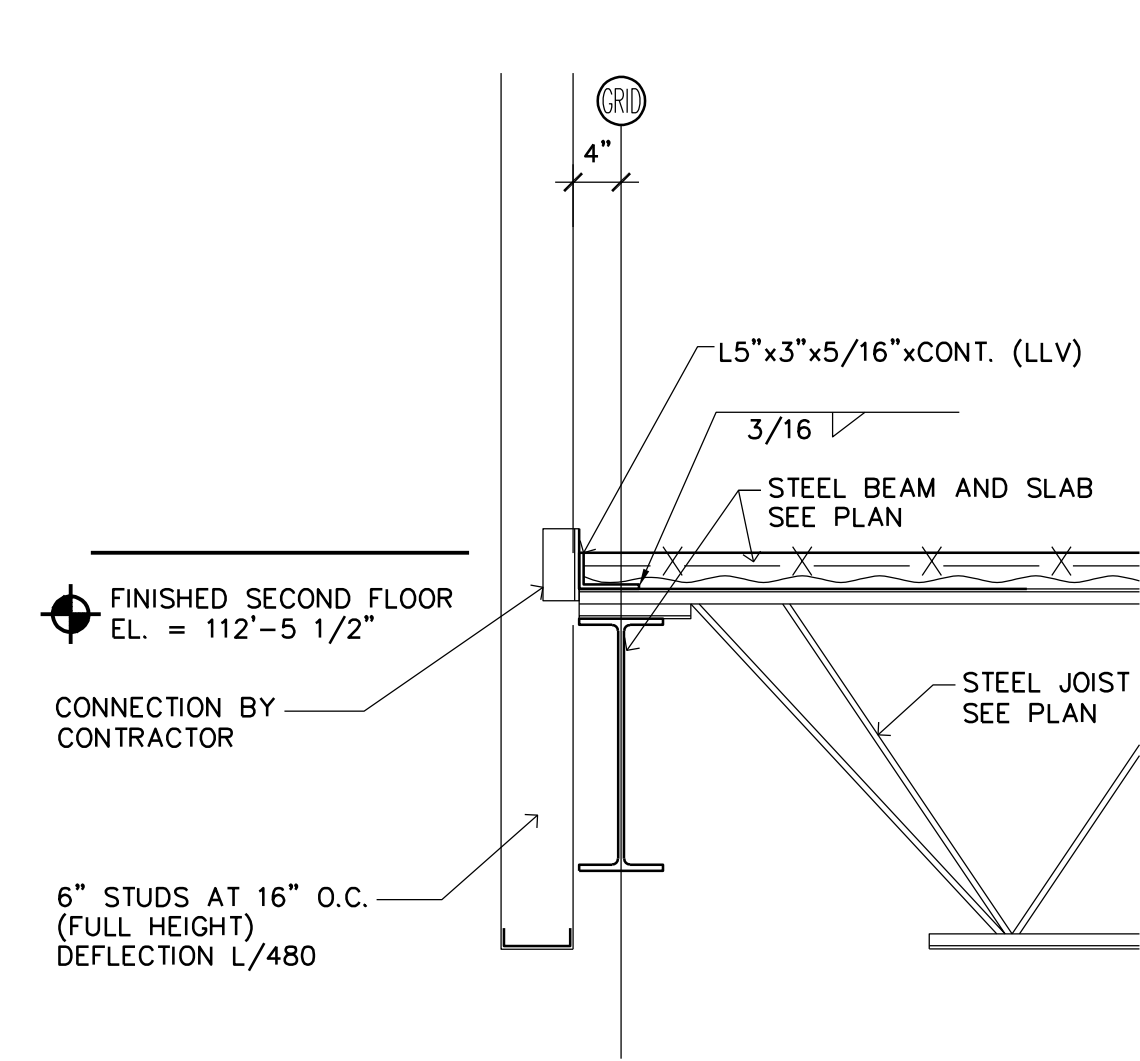
5 TYPICAL BEAM SPLICE DETAIL
S3 SCALE: 3/4" = 1'-0"



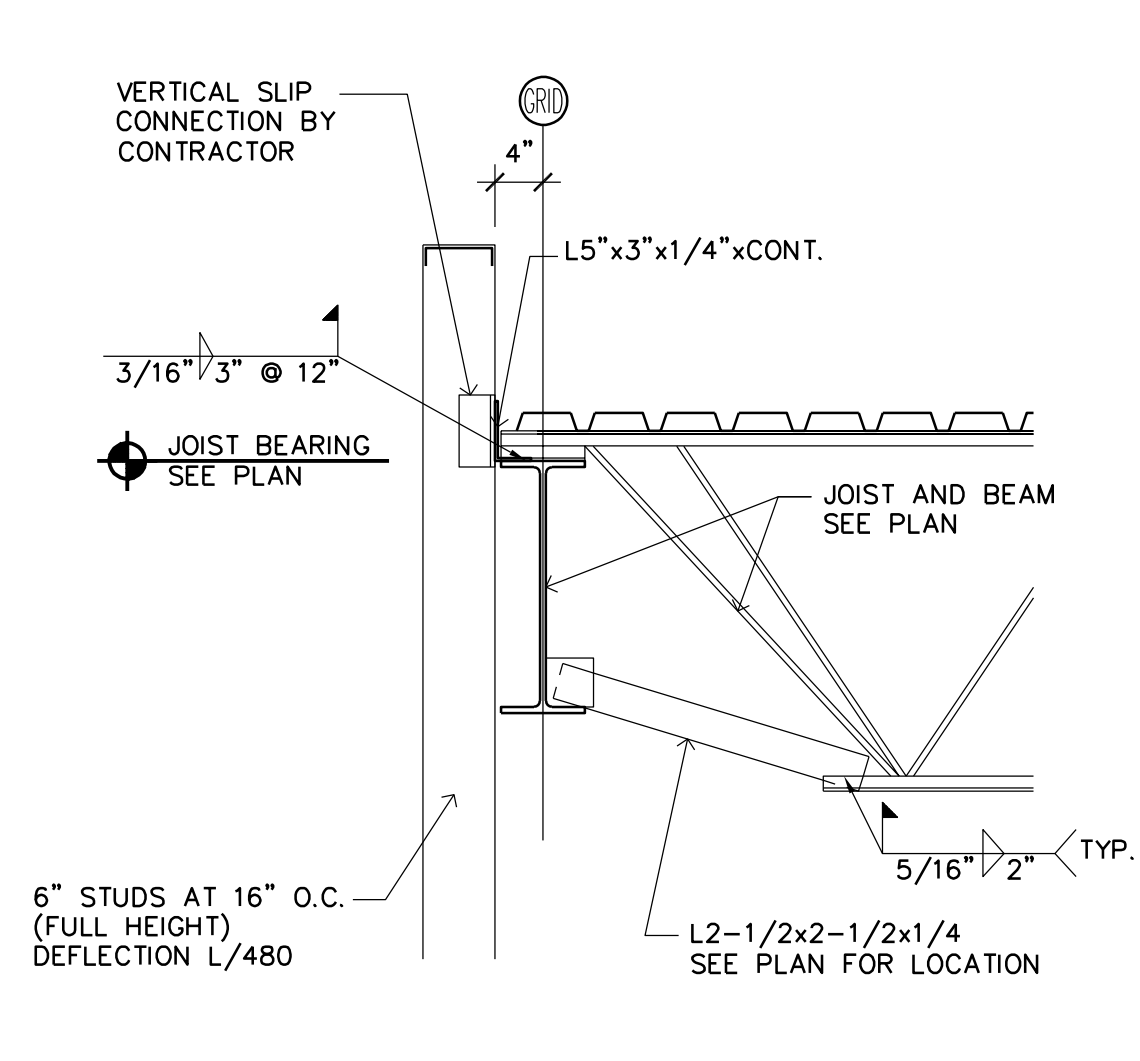
6 TYPICAL LINTEL DETAIL
S3 SCALE: 3/4" = 1'-0"



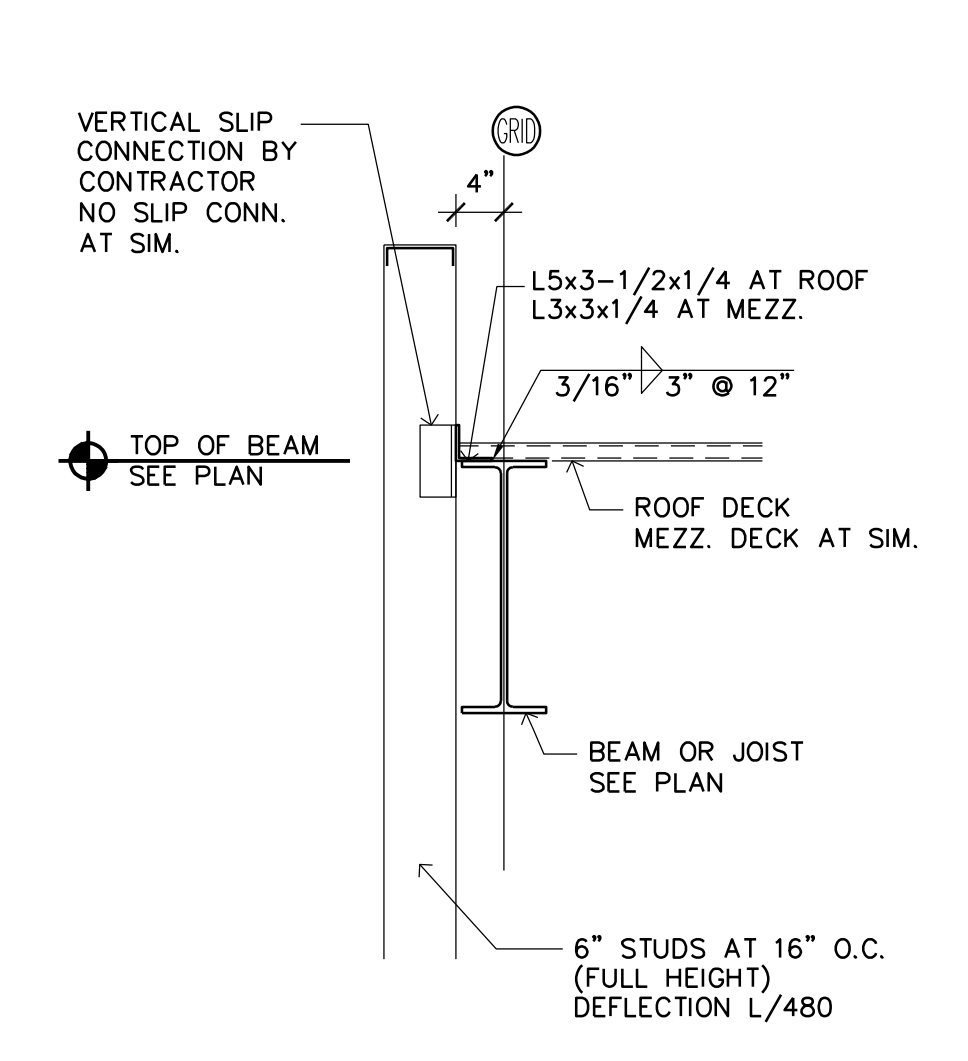
7 BEAM TO COL. CONN. AT JOIST BRG.
S3 SCALE: 3/4" = 1'-0"



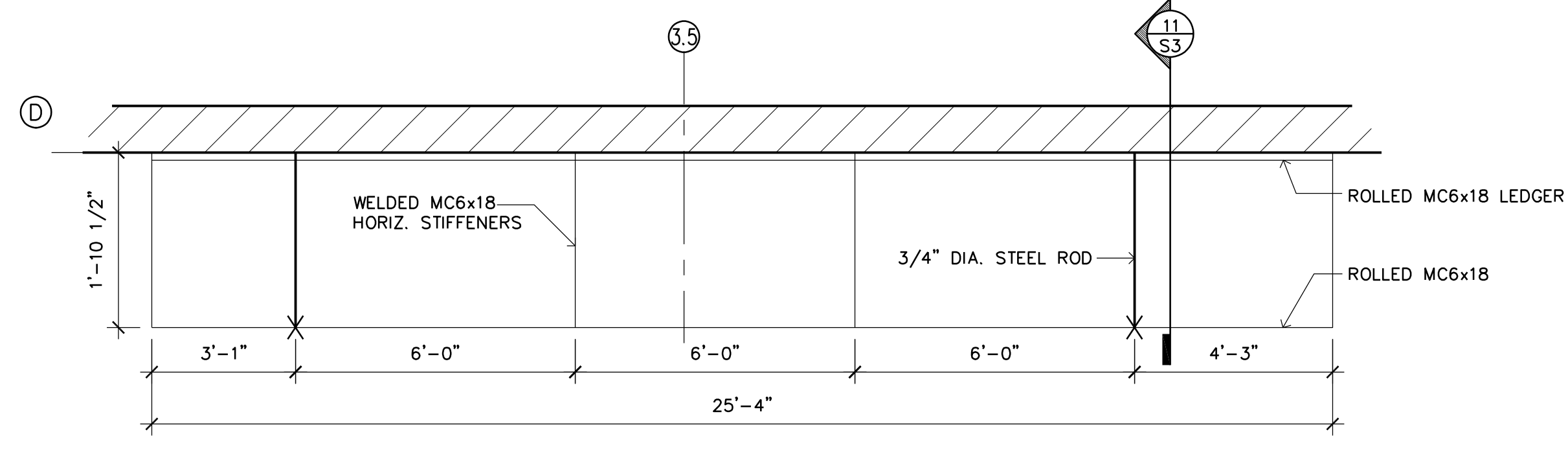
8 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



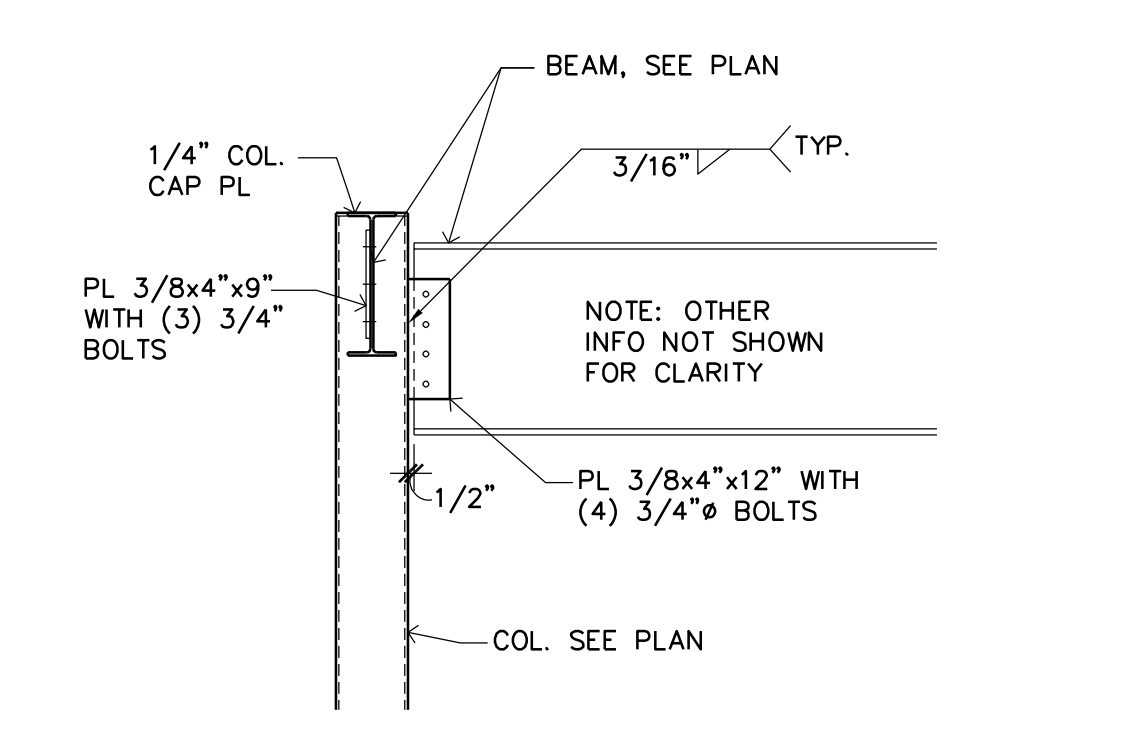
9 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



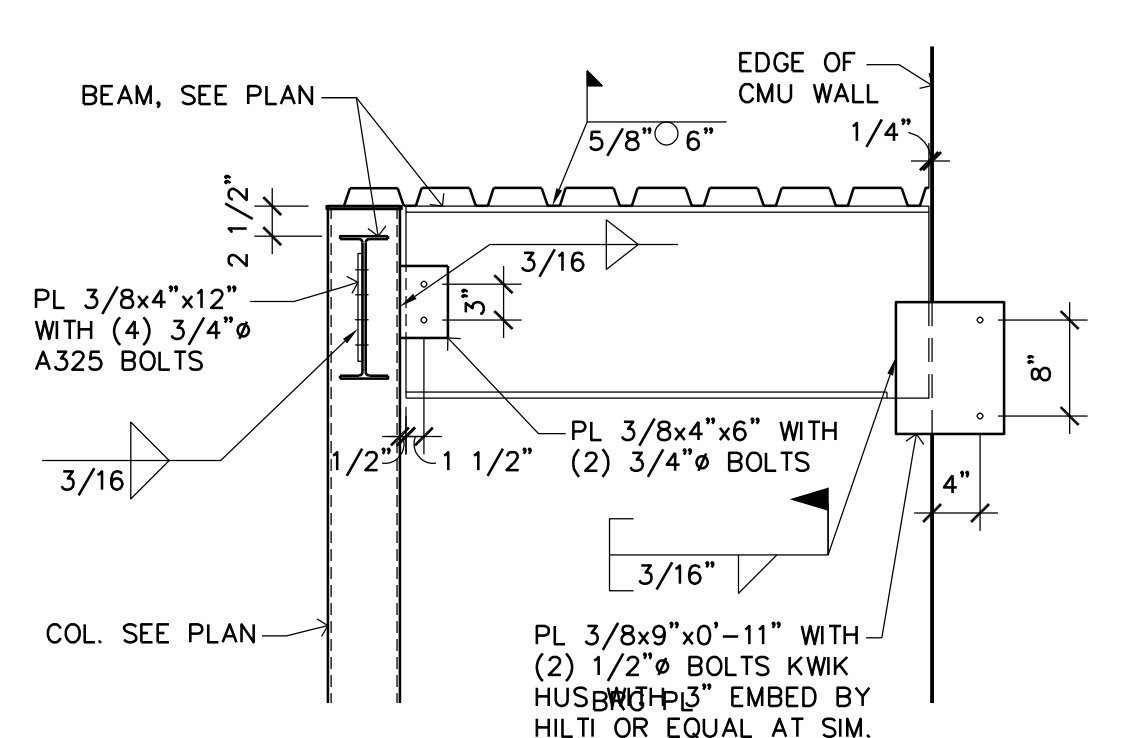
10 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



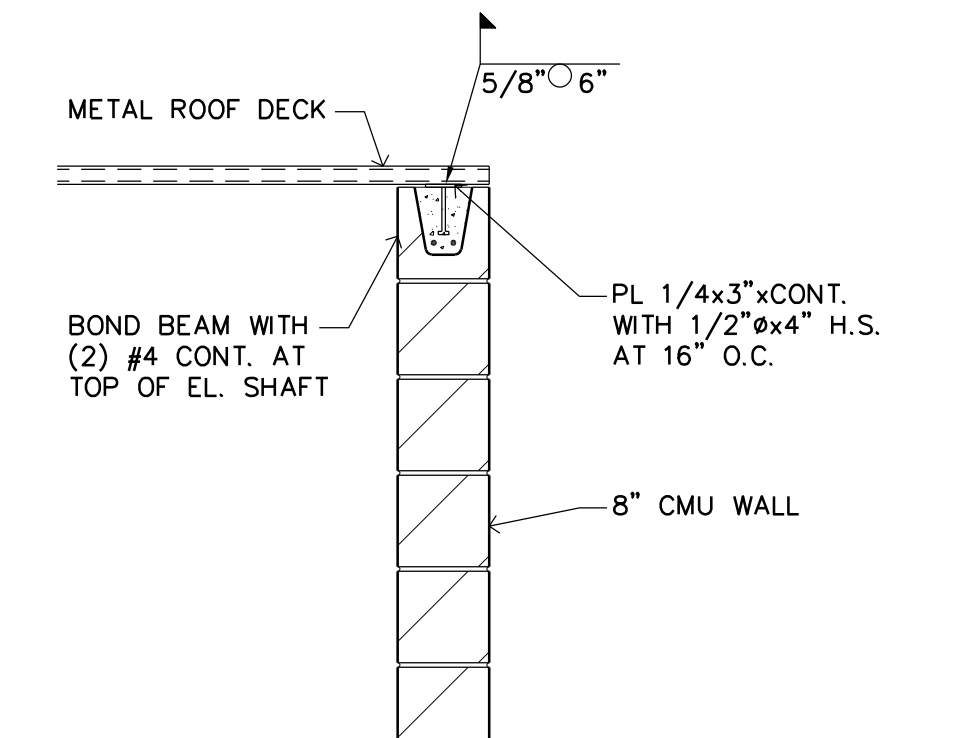
11 CANOPY FRAMING PLAN
S3 SCALE: 3/8" = 1'-0"



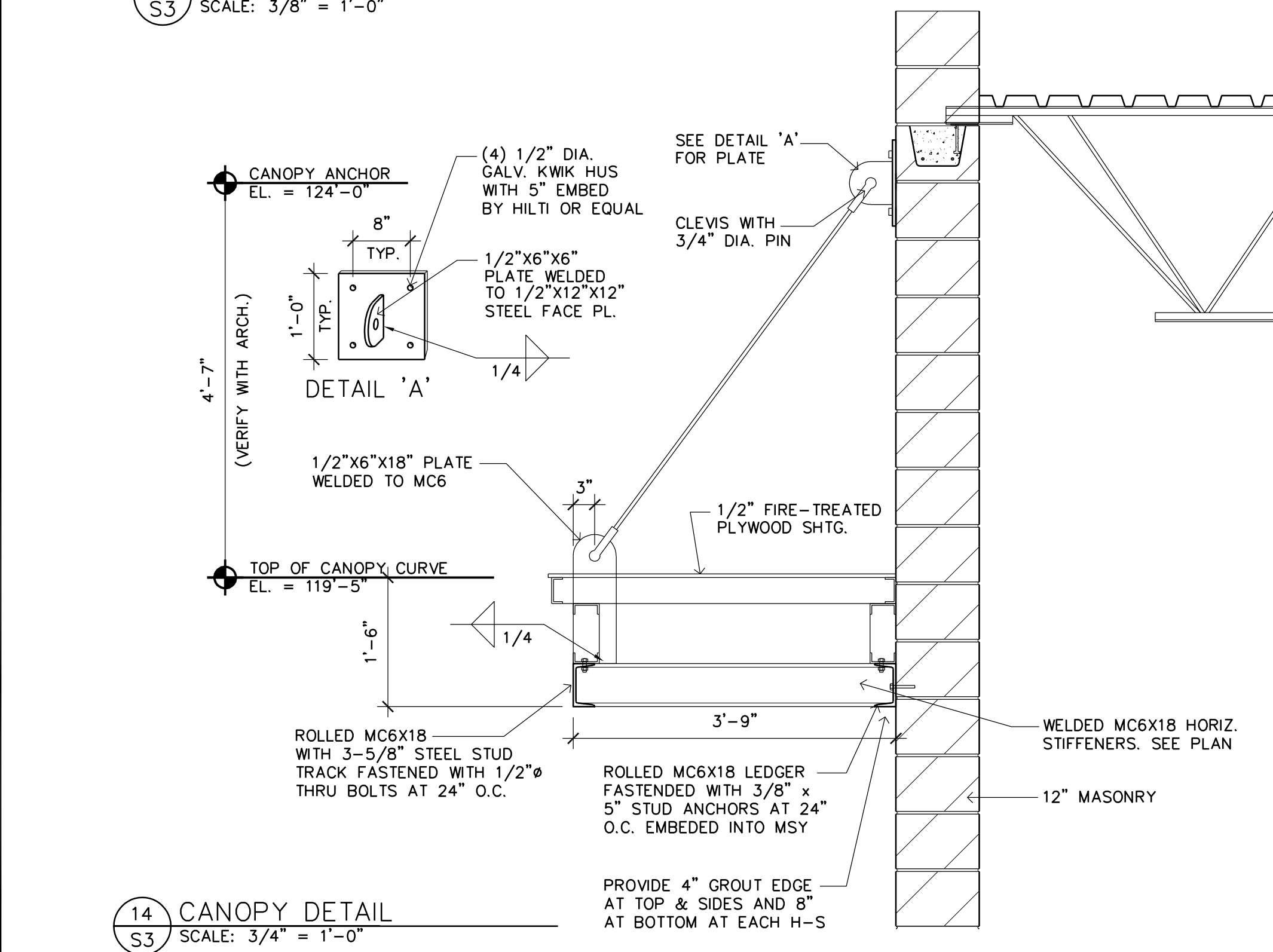
11 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



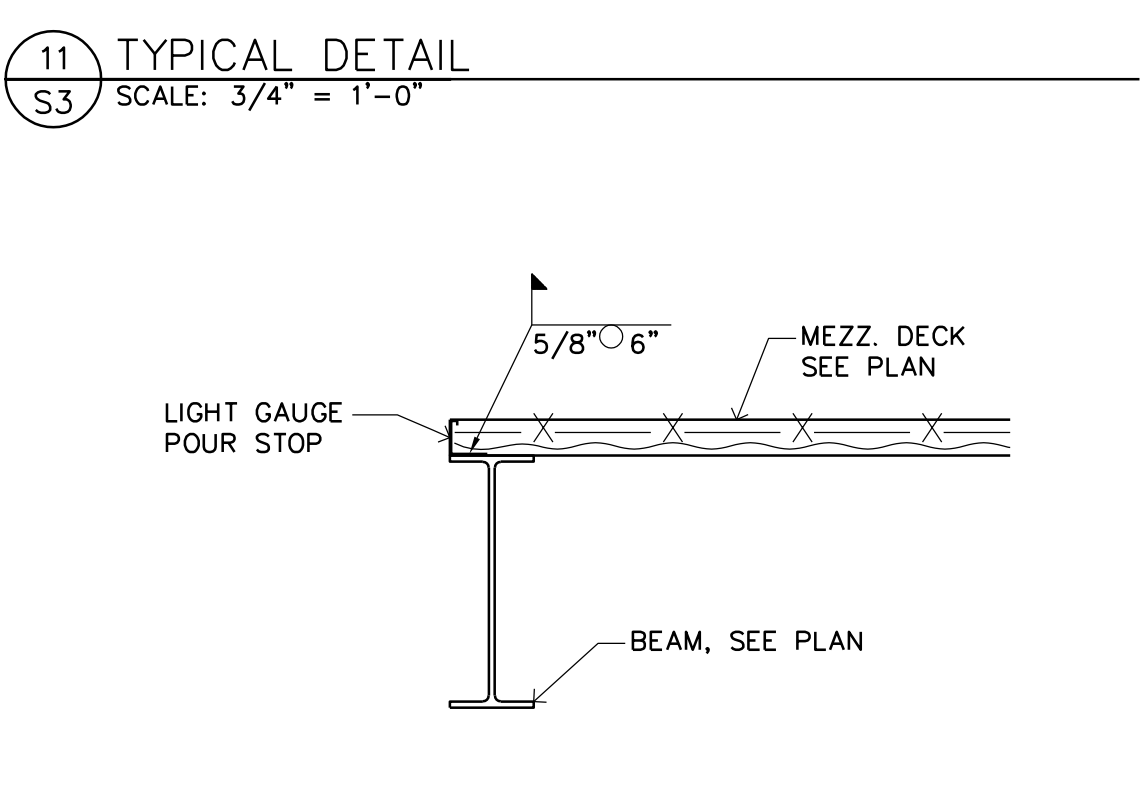
12 TYPICAL DETAIL
S3 SCALE: 3/4" = 1'-0"



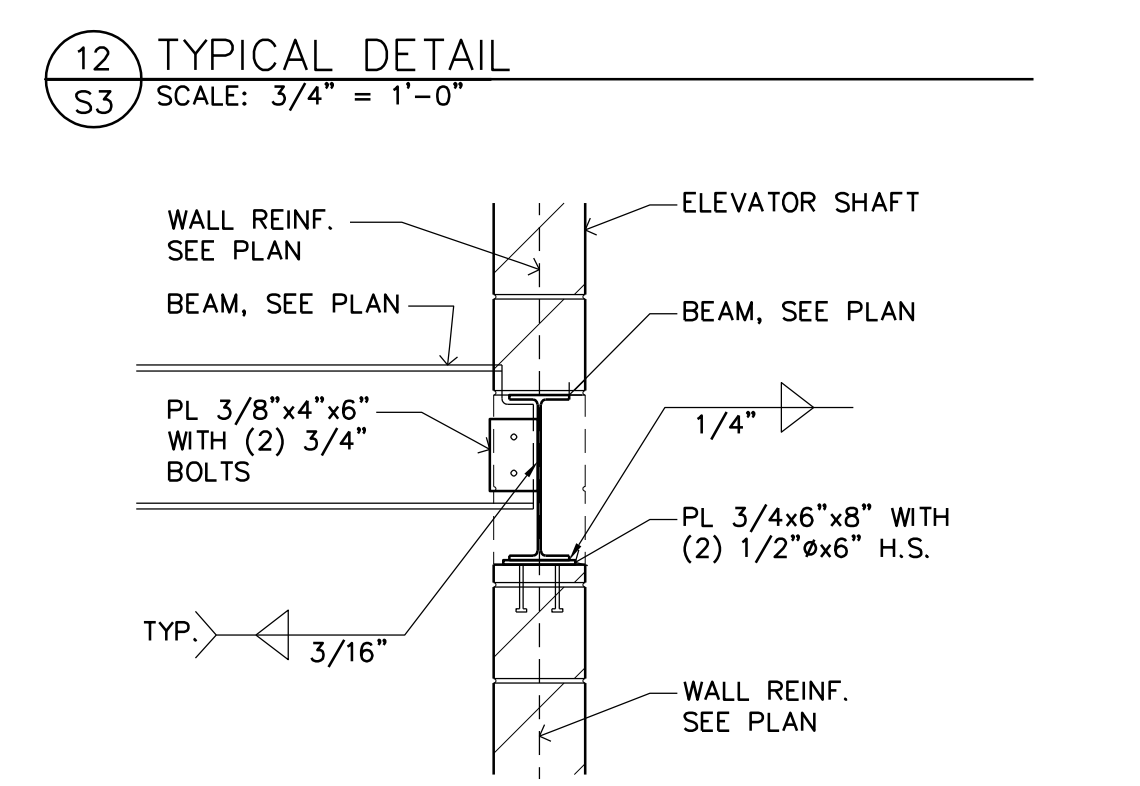
13 SECTION AT ELEVATOR SHAFT
S3 SCALE: 3/4" = 1'-0"



14 CANOPY DETAIL
S3 SCALE: 3/4" = 1'-0"



15 SECTION AT MEZZ. EDGE
S3 SCALE: 3/4" = 1'-0"



16 DETAIL AT ELEVATOR SHAFT CORNER
S3 SCALE: 3/4" = 1'-0"

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Structural Engineer: H ESTEPHAN
Drawn By: LLS
Checked By: HE
Revisions
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STRUCTURAL DETAILS

Sheet Number
S3
Project No. 190826-3

GENERAL NOTES:

BUILDING CODE:

STRUCTURAL DESIGN CONFORMS TO THE REQUIREMENTS OF THE 2000 INTERNATIONAL BUILDING CODE (IBC) WITH STATE OF MINNESOTA AMENDMENTS.

DESIGN LOADS:

WIND LOAD	
BASIC WIND SPEED (3 SECOND GUST).....	115 MPH
WIND IMPORTANCE FACTOR, I.....	1.0
EXPOSURE.....	B
INTERNAL PRESSURE COEFFICIENTS, C_{pi}	±0.18
2ND FLOOR LOAD	
DEAD LOAD.....	47 PSF
PARTITIONS.....	15 PSF
LIVE LOAD.....	50 PSF
ROOF LOAD	
LIVE LOAD (L.L.).....	35 PSF **
DEAD LOAD (DESIGN D.L.).....	
WAREHOUSE.....	13 PSF
OFFICE.....	16 PSF
NET UPLIFT FOR JOIST DESIGN	
WITHIN 10' OF BLDG. PERIMETER.....	5.8 PSF
INTERIOR.....	5.3 PSF

ROOF SNOW LOAD:

GROUND SNOW LOAD, P_g	50 PSF
FLAT ROOF SNOW LOAD, P_f	35 PSF
SNOW EXPOSURE FACTOR, C_e	1.0
SNOW LOAD IMPORTANCE FACTOR, I	1.0
THERMAL FACTOR, C_t	1.0

** PLUS SNOW ACCUMULATION AS REQUIRED BY IBC, CHAPTER 16, SECTION 1608.

COORDINATION:

STRUCTURAL MEMBERS INCLUDING SLABS, BEAMS, JOISTS, AND WALLS ARE DESIGNED FOR "IN PLACE LOADS". CONTRACTOR SHALL BE RESPONSIBLE FOR BRACING, WITHOUT OVERSTRESSING, ALL STRUCTURAL ELEMENTS (AS REQUIRED AT ANY STAGE OF CONSTRUCTION) UNTIL COMPLETION OF THIS PROJECT.

FOUNDATIONS:

FOUNDATIONS, FOUNDATION DRAINAGE, SLABS ON GRADE, & OTHER ITEMS RELATED TO THE SOILS ARE DESIGNED AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE SOIL ENGINEER. ASSUMED ALLOWABLE BEARING PRESSURE IS 2500 PSF. SOIL BEARING PRESSURE SHALL BE VERIFIED PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.

CONCRETE:

- ALL CONCRETE SHALL BE NORMAL WEIGHT (150 PCF.) MINIMUM 28 DAY COMPRESSIVE STRENGTH, AS SPECIFIED BELOW:
- FOOTINGS AND FOUNDATION WALLS..... 3000 PSI, SLAB ON GRADE..... 4000 PSI.
- PROVIDE 3" CLEAR COVER ON BOTTOM AND SIDES FOR FOOTING REINFORCING.
- MAX. DISTANCE BETWEEN SLAB CONTROL OR CONSTRUCTION JOISTS SHALL BE (3) TIMES THE SLAB THICKNESS (IN FEET)
- NOT TO EXCEED 18'-0". LOCATE CONTROL JOINTS IN EACH DIRECTION AT ALL COLUMNS.
- EXCEPT WHERE OTHERWISE SHOWN, SLABS ON GRADE SHALL BE 5" THICK CONCRETE REINFORCED WITH 6x6-10/10 WELDED WIRE MESH OR FIBERMESH.
- CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS. ALL SLAB CONCRETE SHALL BE 4000 PSI, W/ WATER CONTENT RATION LESS THAN .50 AND PLASTERCIZER ADDED AT JOB SITE.

MASONRY:

- CONCRETE MASONRY UNITS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C90.
- MINIMUM COMPRESSIVE STRENGTH OF MSY. UNITS F'_m 1500 PSI.
- GROUT FOR HOLLOW MASONRY UNITS SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI, AND SHALL BE NORMAL WEIGHT PEA GRAVEL CONCRETE.
- ALL MASONRY WALLS SHALL HAVE HORIZONTAL REINFORCING FABRICATED WITH 9 GAUGE SIDE RODS. THIS REINFORCING SHALL BE LOCATED AT EVERY OTHER COURSE.
- ALL VERTICAL REINFORCING SHALL BE CONTINUOUS WITH 48 BAR DIAMETER LAPS AT SPLICES UNLESS NOTED.
- MASONRY WALLS SHALL HAVE CONTROL JOINTS AT A MAXIMUM OF 25'-0" U.N.O.

STRUCTURAL STEEL:

- DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE AISC "MANUAL OF STEEL CONSTRUCTION"
- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 OR A572 (AS NOTED). ALL WIDE FLANGE SHAPES SHALL BE GRADE 50 KSI STEEL. STEEL PIPE SHALL CONFORM TO ASTM A501 OR ASTM A53 STEEL TUBES SHALL CONFORM TO ASTM A500 - GRADE B.
- ALL WELDING SHALL BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES AND SHALL CONFORM TO AWS STANDARDS.
- ALL BOLTS SHALL BE 3/4" DIAMETER. ASTM A325.

STEEL JOISTS:

- ALL JOISTS SHALL COMPLY WITH THE STEEL JOIST INSTITUTE RECOMMENDED "CODE OF STANDARD PRACTICE FOR STEEL JOISTS FOR FABRICATION AND ERECTION"
- STEEL JOIST SUPPLIER SHALL FURNISH ALL BRACING, WALL ANCHORS, HEADERS AND BOTTOM CHORD EXTENSIONS, ETC. AS NECESSARY TO PROVIDE A COMPLETE INSTALLATION.
- FOR DRAINAGE STEEL HAVE BEEN SIZED FOR PONDING. CONSIDERATION PER IBC SEC. 1611.
- THE JOIST SUPPLIER SHALL COORDINATE BRIDGING LOCATIONS WITH THE SPRINKLER CONTRACTOR, SUCH THAT THE BRIDGING IS LOCATED A MINIMUM OF 1'-0" CLEAR HORIZ. FROM THE CENTER LINES OF THE SPRINKLER HEADS OR 2'-0" CLEAR VERTICALLY BELOW THE SPRINKLER DEFLECTOR.
- PLACEMENT OF MECHANICAL UNITS & HANGERS SUPPORTED BY ROOF JOISTS IS SUBJECT TO THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- HANGING LOADS SHALL BE WITHIN 4" OF THE JOIST PANEL POINTS UNLESS APPROVED BY THE JOIST MANUFACTURER AND THE ENGINEER.

STEEL DECK:

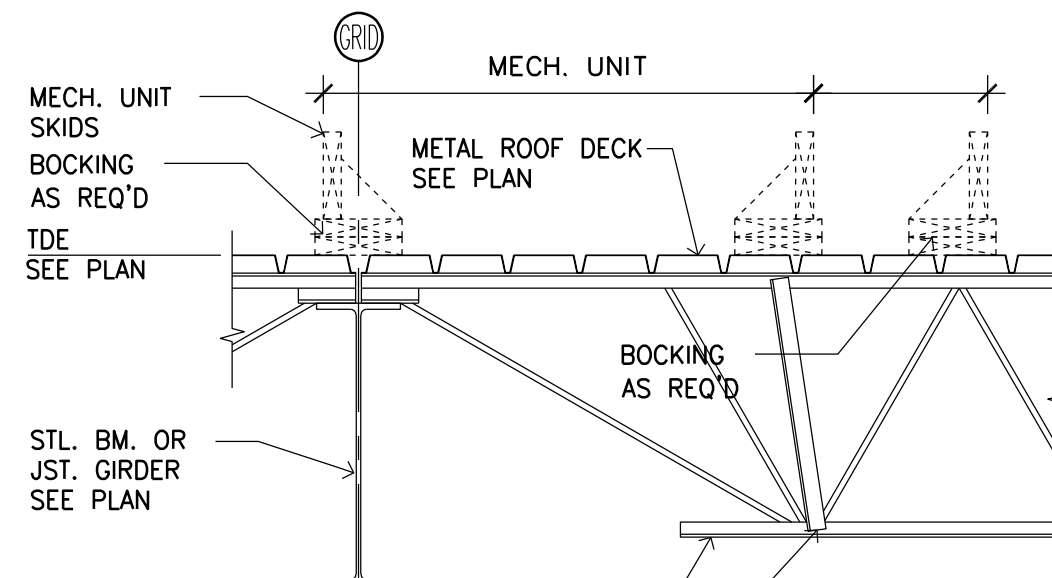
- STEEL ROOF DECK SHALL BE 1 1/2" x 22 GA. "TYPE B-WIDE RIB DECK" MANUFACTURED AND ERECTED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE.
- MINIMUM REQUIREMENT FOR ROOF DECK FASTENING SHALL BE 5/8 INCH PUDDLE WELDS USING 3/5 WELD PATTERN AND #1 10 TEK SCREW SIDELAP FASTENER PER DECK SPAN OR PRE-APPROVED EQUAL. (U.N.O.)

REINFORCING STEEL:

- REINFORCING STEEL SHALL CONFORM TO ASTM (GRADE 60).
- WELDED WIRE FABRIC SHALL BE NEW BILLET STEEL, COLD DRAWN AND CONFORMING TO ASTM A185 AND A82.
- BAR SUPPORTS, DESIGN, DETAILING, FABRICATION AND PLACING OF REINFORCING BARS AND MESH SHALL BE IN ACCORDANCE WITH THE ACI CODE AND DETAILING MANUAL.
- UNLESS NOTED OTHERWISE, ALL REINFORCING LAP SPLICES SHALL BE 40 BAR DIAMETERS OR 12", WHICHEVER IS GREATER.

COLD-FORMED STEEL FRAMING AND ROOF TRUSSES:

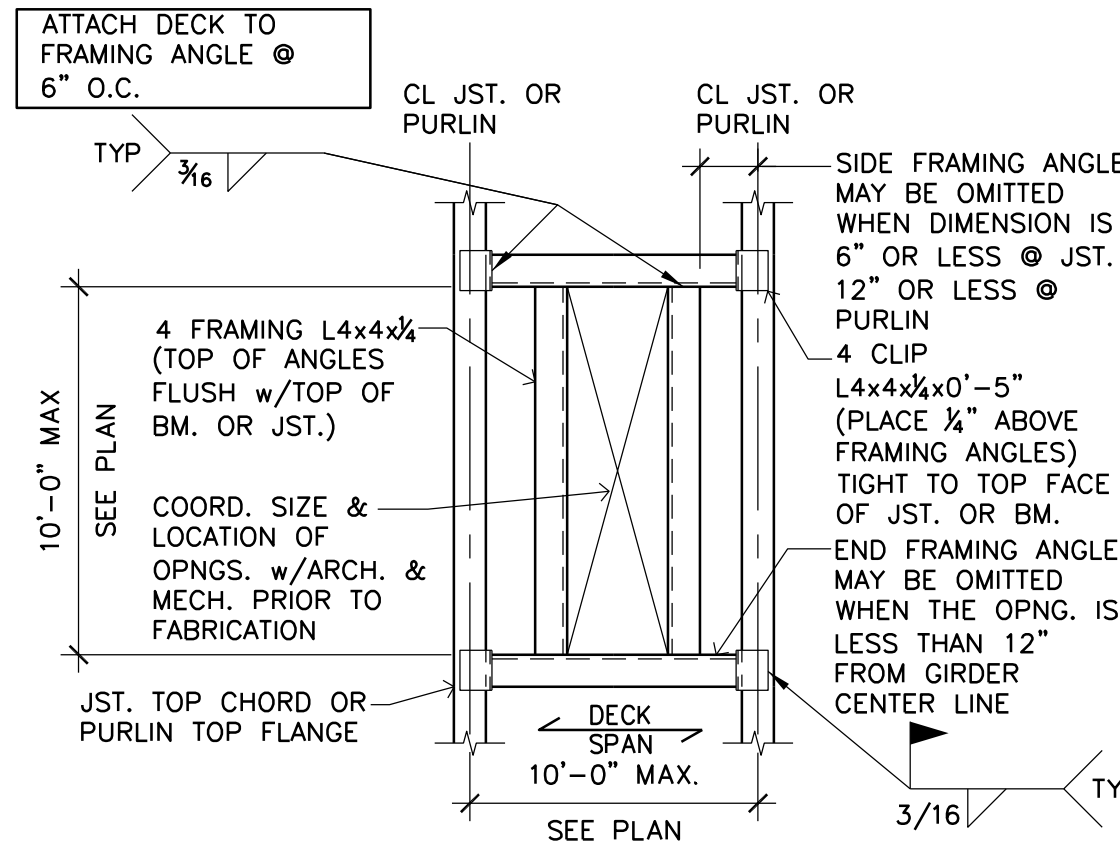
- ALL STEEL STUDS AND ACCESSORIES SHALL BE OF THE TYPE, SIZE, GAUGE AND SPACING AS SHOWN ON PLANS.
- COLD FORMED STEEL STUDS AND/OR JOISTS SHALL BE USG SJ SERIES AS MANUFACTURED BY UNITED STATES GYPSUM COMPANY 3 OR EQUAL.
- ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" (LATEST EDITION).
- ALL STUDS AND/OR JOISTS SHALL BE FORMED FROM HOT-DIPPED GALVANIZED STEEL, G-60 COATING, CORRESPONDING TO THE REQUIREMENTS OF ASTM A446, GRADE A, WITH A MINIMUM YIELD OF 33KSI.



IF SKID LOCATION FALLS 4" OR FARTHER FROM JST. PANEL POINT, ADD $L1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ EA. SIDE OF JST. FROM TOP CHORD BELOW SKID TO BOT. CHORD PANEL POINT. WELD EA. END OF ANGLE TO JST. w/ $\frac{1}{8}$ " FILLET WELD ALL AROUND.

WHEN WELDING TO THE JOISTS DO NOT OVERHEAT THEM IN ORDER NOT TO DAMAGE THE EXISTING WELD

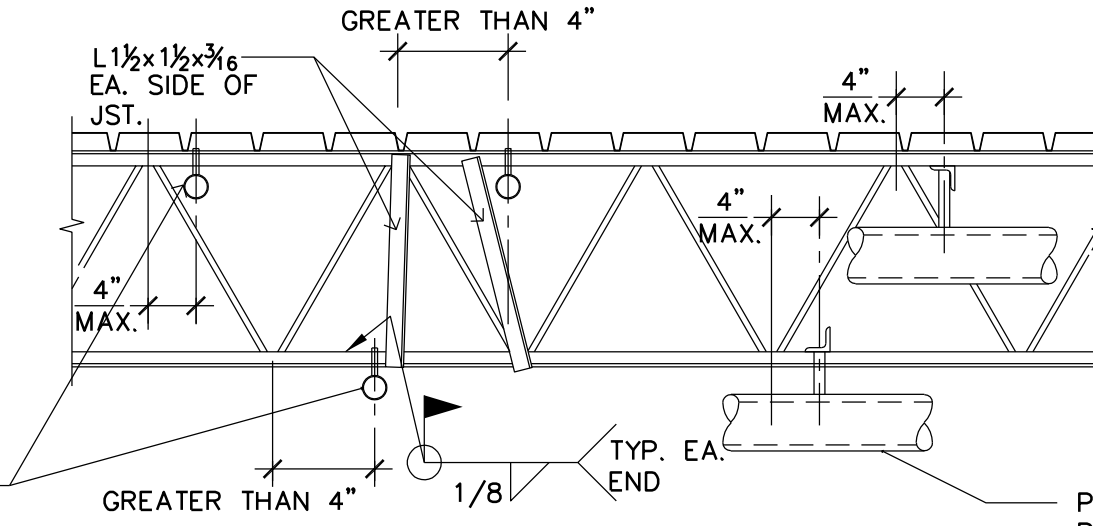
1 SECTION
S4 NOT TO SCALE



NOTE: AT JST. FRAMING - CLIP ANGLES TO BE LOCATED AT TOP CHORD PANEL POINTS OR PROVIDE 2- $L1\frac{1}{2} \times 1\frac{1}{2} \times \frac{3}{16}$ FROM BEARING POINT OF FRAME TO BOT. CHORD PANEL POINT OF JST. FIELD WELD IN PLACE.

3 PLAN DETAIL - ROOF SUPPORT FRAME
S4 NOT TO SCALE

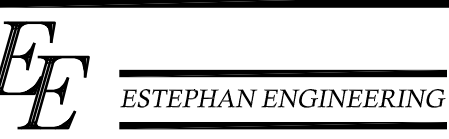
ATTACH ALL CONCENTRATED LOADS (PIPING, MECH., ETC.) TO THE JST. WITHIN 4" OF THE JST. PANEL POINT OR PROVIDE STIFFENER ANGLES AS SHOWN. FOR PIPING EXCEEDING 20 PLF OR EQUAL GROUPINGS NOTIFY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.



NOTE: DUCTWORK SHALL NOT BE HUNG FROM THE STL. ROOF DECK.

PIPING LESS THAN 20 PLF PARALLEL TO JST. SHALL BE CENTERED BTWN. JST. & A SPREADER MEMBER INSTALLED. FOR PIPING EXCEEDING 20 PLF OR EQUIV. GROUPINGS NOTIFY THE STRUCT. ENGINEER PRIOR TO INSTALLATION.

2 TYPICAL HANGER REQUIREMENTS
S4 NOT TO SCALE



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STRUCTURAL NOTES AND DETAILS

Sheet Number

S4