



# Fiiz Drinks

## 30 North 400 East Street

### Santaquin City, Utah



Vicinity Map  
Not to Scale



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### Abbreviations

BCR	Begin Curb Return	PT	Point of Tangency
BOL	Ballard	PVC	Polyvinyl Chloride
BRW	Finish Grade - Bottom of Retaining Wall	PVI	Point of Vertical Intersection
CATV	Cable Television Box	RCP	Reinforced Concrete Pipe
CB	Catch Basin	RD	Roof Drain
CMP	Corrugated Metal Pipe	SB	Signal Box
COB	Cleanout Box	SD	Storm Drain
COTG	Cleanout to Grade	SDMH	Storm Drain Manhole
EA	Edge of Asphalt	SMH	Sewer Manhole
EB	Electrical Box	SP	Signal Pole
EC	End of Curve	SS	Sanitary Sewer
ECR	End Curb Return	SVZ	Sight Visibility Zone
GB	Grade Break	SW	Secondary Water
GM	Gas Meter	TA	Top of Asphalt
HB	Hose Bib	TB	Telephone Box
HP	High Point	TBC	Top Back of Curb
I	Irrigation Line	TG	Top of Grate
ICB	Irrigation Control Box	TMH	Telephone Manhole
Lip	Lip of Gutter	TP	Top of Concrete
LP	Light Pole	TRW	Finish Grade - Top of Retaining Wall
MH	Manhole	TW	Top of Walk
Mon	Monument	VC	Vertical Curve
PC	Point of Curvature	VPC	Vertical Point of Curve
PCC	Point of Compound Curvature	VPT	Vertical Point of Tangency
PI	Point of Intersection	WL	Waterline
PM	Power Meter	WP	Working Point
PP	Power Pole	WV	Water Valve

### Legend

Proposed Curb & Gutter	Existing Improvements	Existing Asphalt
Proposed Open Face C & G	Existing Concrete	Existing Concrete
Proposed Asphalt	Existing Inlet Box	Existing Catch Basin
Proposed Concrete	Existing Manhole	Existing Fire Hydrant
Proposed Truncated Domes	Existing Water Valve	Existing Overhead Power Line
Proposed Inlet Box	Existing Water	Existing Secondary Water
Proposed Catch Basin	Existing Sewer	Existing Storm Drain
Proposed Manhole	Existing Gas	Existing Power
Proposed Transformer	Existing Telephone	Existing Fence
Proposed Meter Box	Existing Power Line	Flowline
Proposed Water Meter	Existing Storm Drain	Centerline
Proposed Comba Box	Existing Gas	Existing Contour
Proposed Fire Hydrant	Existing Telephone	Existing Spot
Proposed Water Valve	Existing Power	Existing Light Pole
Proposed Water Line	Existing Telephone	Existing Street Light
Proposed Sanitary Sewer	Existing Power	Existing Building
Proposed Storm Drain	Existing Telephone	Existing Telephone Box
Proposed Conduit Line	Existing Power	Existing Power Meter
Proposed Power Line	Existing Telephone	Existing Electrical Box
Proposed Gas Line	Existing Power	Existing Electrical Cabinet
Proposed Fire Line	Existing Telephone	Existing Gas Meter
Proposed Secondary Water Line	Existing Power	Existing Water Meter
Proposed Roof Drain	Existing Telephone	Existing Irrig. Control Box
Proposed Fence	Existing Power	Existing Ballard
Ridge line	Existing Telephone	Existing Hose Bib
Grade Break	Existing Power	Working Point
Proposed Contour	Existing Telephone	Existing Deciduous Tree
Direction of Drainage	Existing Power	Existing Coniferous Tree
Proposed Spot	Existing Telephone	Detail Number
ADA Accessible Route	Existing Power	Sheet Number
Property Line	Existing Telephone	
Sawcut Line	Existing Power	
Proposed Light Pole	Existing Telephone	
Proposed Street Light	Existing Power	
Proposed Building	Existing Telephone	
Existing Power Pole	Existing Power	
Existing Power Pole w/ Guy	Existing Telephone	
Existing Utility Marker	Existing Power	
Existing Post	Existing Telephone	

### Santaquin City Notes

It is important for the developer and the general contractor to understand that it is his/her responsibility to ensure that all improvements installed within this development are constructed in full compliance with all state and Santaquin City codes, ordinances and standards. This fact does not relieve the developer or general contractor from full compliance with all minimum state and Santaquin City standards.

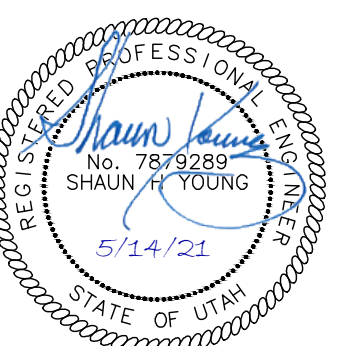
**Santaquin City Note to Developers & General Contractors**  
All recommendations made in the provided geotechnical report/study shall be followed explicitly during construction of building and site improvements.

Legal Description  
Lot 4, Ridley's Subdivision

22,907 sq. ft.  
or 0.526 acre

ANDERSON WAHLEN & ASSOCIATES  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 521-8529 - awhengineering.net

Cover Sheet  
Fiiz Drinks  
30 North 400 East Street  
Santaquin City, Utah



14 May, 2021

SHEET NO.

C0.0



400 East Street

#### Site Data

Site Area = 22,907 s.f. (0.526 ac.)

Landscape Area Provided = 5,218 s.f. (22.8%)

Impervious Area Provided = 16,209 s.f. (70.8%)

Building Area = 1,480 s.f. (6.4%)

Parking Required = 1/125 s.f. = 12 stalls

Parking Provided = 12 stalls (8/1,000)

Scale: 1" = 10'



#### Site Construction Notes

1. Const. 24" Curb & Gutter (C4.1)
2. Const. Asphalt Paving (C4.1)
3. Const. Concrete Sidewalk (C4.1)
4. Const. Thickened Edge Sidewalk (C4.1)
5. Const. Accessible Striping per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C2.3)
6. Const. Accessible Ramp per ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C2.3)
7. Const. Accessible Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C2.3)
8. Const. Accessible VAN Sign per MUTCD & ICC/ANSI A117.1 (Latest Edition) (See Accessible Details and Notes) (C2.3)
9. Const. 4" White Point Stripe (Typ.) Contractor shall provide 15 mils min. thickness
10. Const. Concrete Paving (C4.1)
11. Sawcut; Provide Smooth Clean Edge
12. Dumpster Enclosure (See Arch. Plans)
13. Const. Directional Arrows per MUTCD
14. Const. 24" White Stop Bar
15. Const. Concrete Wheel Stop
16. Const. Stop Sign per MUTCD R1-1 (C4.3)
17. Connect to Existing Improvements and Match Grade Elevation
18. Const. Landscape Edging (Coordinate w/ Landscape Plan)
19. Const. Boulder Retaining Wall (2' Max Height)

#### General Site Notes:

1. All dimensions are to back of curb unless otherwise noted.
2. Fire lane markings and signs to be installed as directed by the Fire Marshal.
3. Aisle markings, directional arrows and stop bars will be painted at each driveway as shown on the plans.
4. Const. curb transition at all points where curb abuts sidewalk, see detail.
5. Contractor shall place asphalt paving in the direction of vehicle travel where possible.
6. Limits of demolition/disturbed areas shown on the plans may not be an exact depiction. It is the contractor's responsibility to determine the means and methods of how the work will be completed. The contractor shall determine the area of construction impact. The contractor is responsible to restore all impacted areas and all restoration shall be part of the contract bid.

#### Construction Survey Note:

The Construction Survey Layout for this project will be provided by Anderson Wahlen & Associates. The Layout Proposal and Professional Services Agreement will be provided to the General Contractor(s) for inclusion in base bids. The Survey Layout proposal has been broken out into Building Costs and Site Costs for use in the Site Work Bid Form.

#### Survey Control Note:

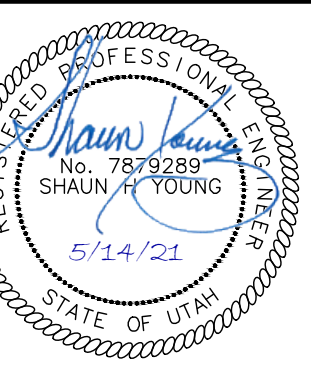
The contractor or surveyor shall be responsible for following the National Society of Professional Surveyors (NSPS) model standards for any surveying or construction layout to be completed using Anderson Wahlen and Associates ALTA Surveys or Anderson Wahlen and Associates construction improvement plans. Prior to proceeding with construction staking, surveyor shall be responsible for verifying horizontal control from the survey monuments and for verifying any additional control points shown on an ALTA survey, improvement plan, or on electronic data provided by Anderson Wahlen and Associates. The surveyor shall also use the benchmarks as shown on the plan, and verify them against no less than three existing hard improvement elevations included on these plans or on electronic data provided by Anderson Wahlen and Associates. If any discrepancies are encountered, the surveyor shall immediately notify the engineer and resolve the discrepancies before proceeding with any construction staking.

#### PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.

**ANDERSON WAHLEN & ASSOCIATES**  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 321-8529 - AWaengineering.net

**Site Plan**  
**Fiiz Drinks**  
30 North 400 East Street  
Santiquin City, Utah



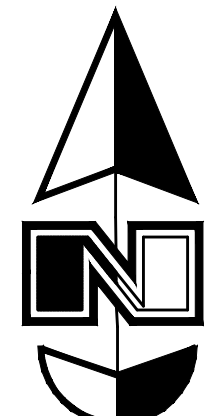
14 May, 2021

SHEET NO.

**C1.1**

400 East Street

Scale: 1" = 10'



#### General Grading Notes:

- All grading shall be in accordance with the project geotechnical study.
- Cut slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 3 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by a Geotechnical Engineer.
- Areas to receive fill shall be properly prepared and approved by a Geotechnical Engineer prior to placing fill.
- Fills shall be benched into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by a Geotechnical Engineer.
- A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- The final compaction report and certification from a Geotechnical Engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading process.
- All public roadways must be cleared daily of all dirt, mud and debris deposited on them, as a result of the grading operation. Cleaning is to be done to the satisfaction of the City Engineer.
- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- The recommendations in the following Geotechnical Engineering Report by GSH are included in the requirements of grading and site Preparation. The Report is titled "Proposed Ridley's Market Development (MEC) of Main Street and 400 South".  
Project No.: 2588-001-18  
Dated: April 26, 2018
- As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
- If Contractor observes evidence of hazardous materials or contaminated soils he shall immediately contact the project engineer to provide notification and obtain direction before proceeding with disturbance of said materials or contaminated soil.

#### Curb and Gutter Construction Notes:

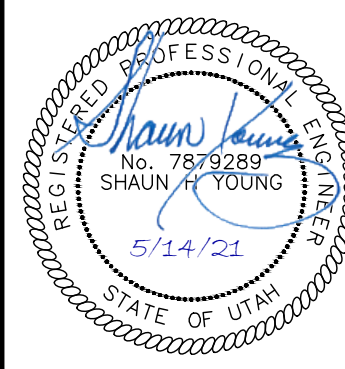
- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on the grading plan.
- It is the responsibility of the surveyor to adjust top of asphalt grades to top of curb grades at the time of construction staking.
- Refer to the typical details for standard and open face curb and gutter dimensions.
- Transitions from open face to standard curb and gutter are to be smooth. Hand form these areas if necessary.
- Spot elevations are shown on this plan with text masking. Coordinate and verify site information with project drawings.

#### Sidewalk Construction Notes:

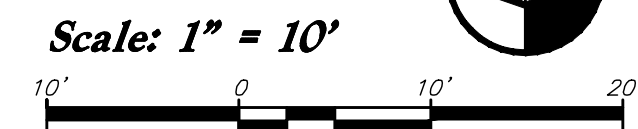
- Concrete sidewalk shall be constructed with a cross slope of 1.5% (2.0% Maximum) unless shown otherwise on plan.
- Running slope of sidewalks shall be built per grades shown on the plan, where grades are not provided, sidewalks shall be constructed with a maximum running slope of 4.5%.
- Refer to the Site Plan for sidewalk dimensions.

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**Grading Plan**  
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**C2.1**

[illegible]

1. *All sewer and water facilities shall be constructed per local jurisdiction standards and specifications. Contractor is responsible to obtain standards and specifications.*
2. *Coordinate all utility connections to building with plumbing plans and building contractor.*
3. *Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.*
4. *All catch basin and inlet box grates are to be bicycle proof.*
5. *Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.*
6. *Gas lines, telephone lines, and cable TV lines are not a part of these plans.*
7. *Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.*
8. *Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible, of no cost to the owner, to construct any vertical adjustments necessary to clear sewer, storm drain, or other utilities as necessary including valve boxes and hydrant spots to proper grade.*
9. *Contractor shall install a 12" concrete collar around all manholes, valves, catch basins, cleanouts & any other structures located within the asphalt.*

*All piping materials shall be per local agency standards or the specifications below at a minimum. All utility piping shall be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.*

1. Polyethylene (PE) Water Pipe (Up to 3 inches diameter), AWWA C901, PE 3408, SDR 9 (200 psi)
2. Copper Pipe (Up to 3 inches diameter): Type "K."

1. Polyvinyl Chloride (PVC) (4 inches to 12 inches diameter): AWWA C900, Class 200

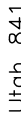
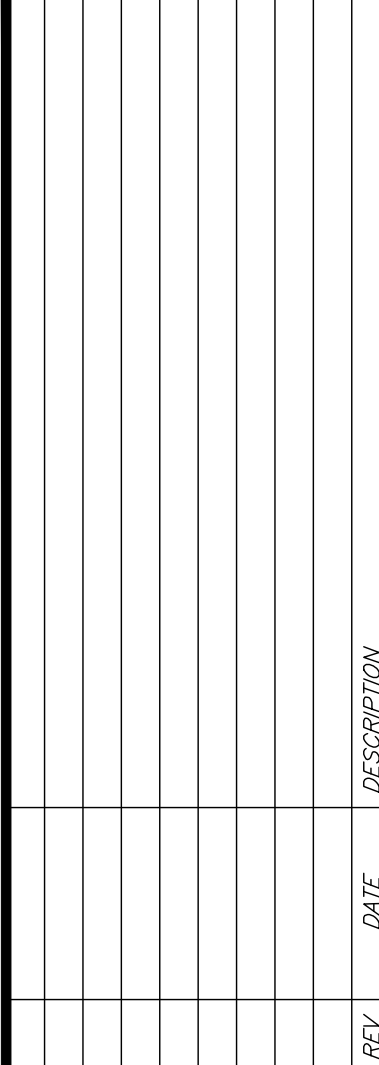
1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

1. 12" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35

The locations and/or elevations of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete.

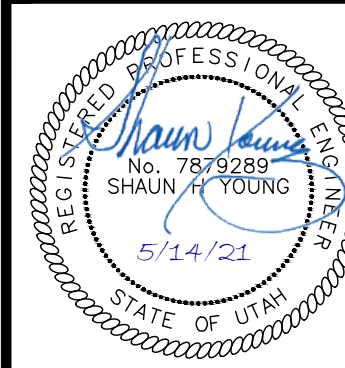
*All Storm Drainage & Sanitary Sewer Pipe  
Lengths and Slopes are from  
Center of Structure to Center of Structure*

1. Contractor shall field verify all utility connection elevations prior to any utility construction has begun.
2. Contractor shall construct utility lines into site prior to any onsite utility construction. Gravity lines are to be constructed starting at the lowest point and be installed prior to any waterline installation
3. Construction of any onsite utilities prior to the offsite connection will be done at the contractors risk.



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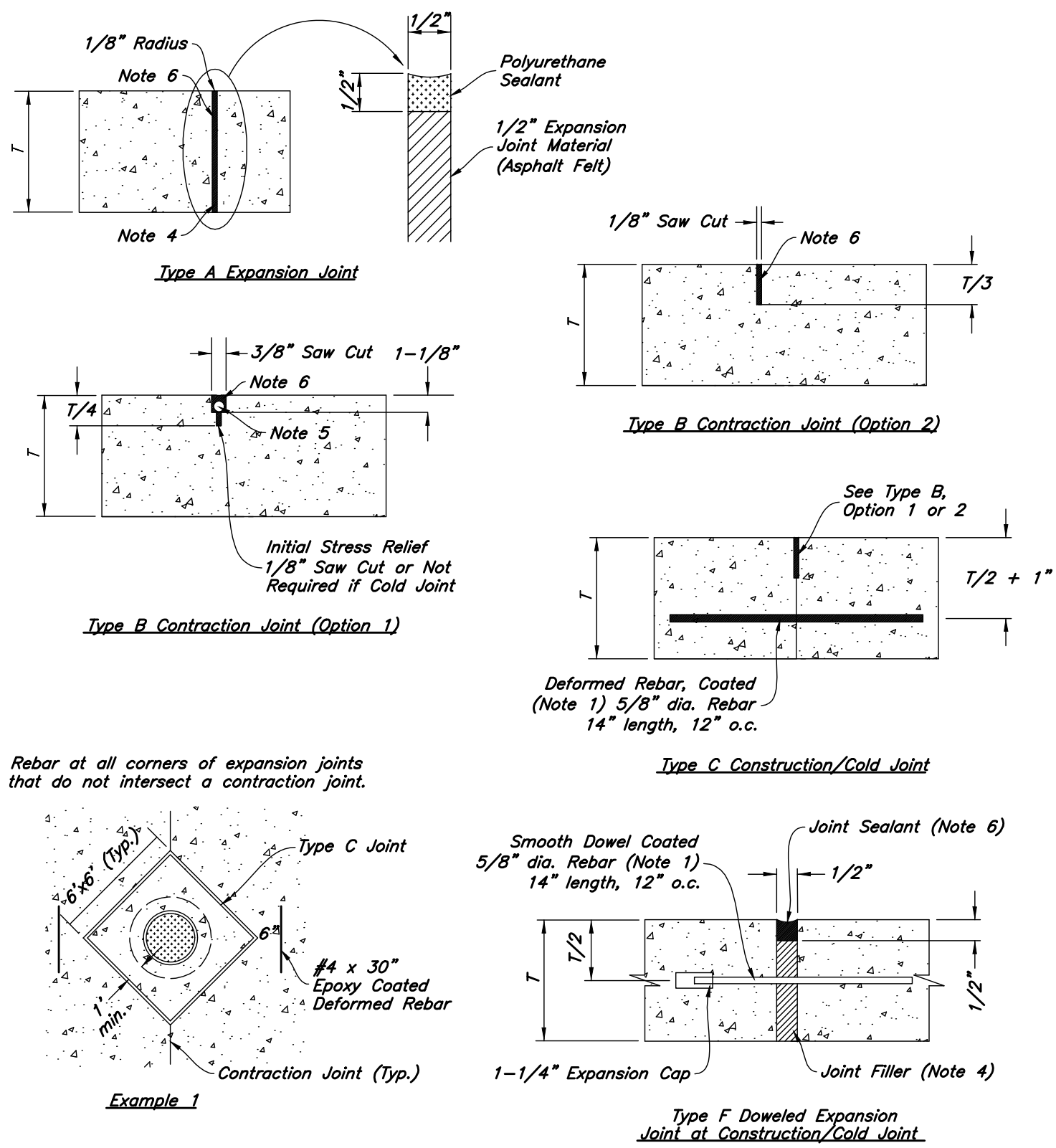
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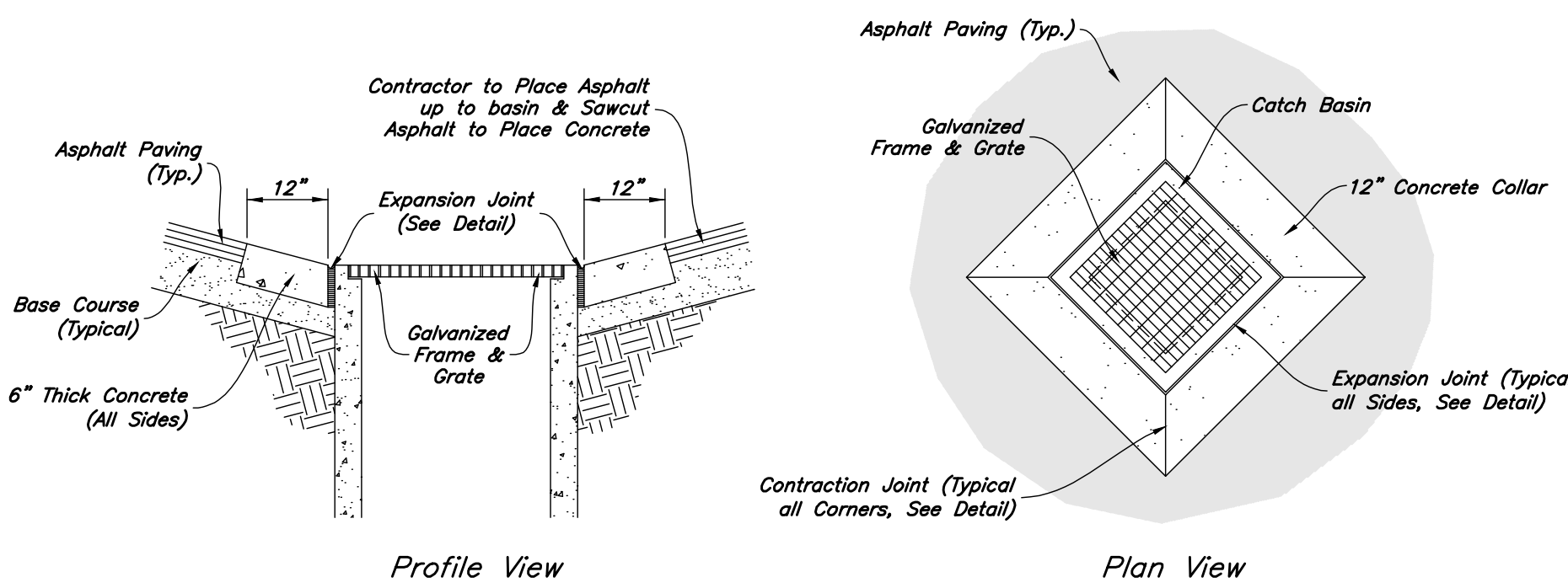
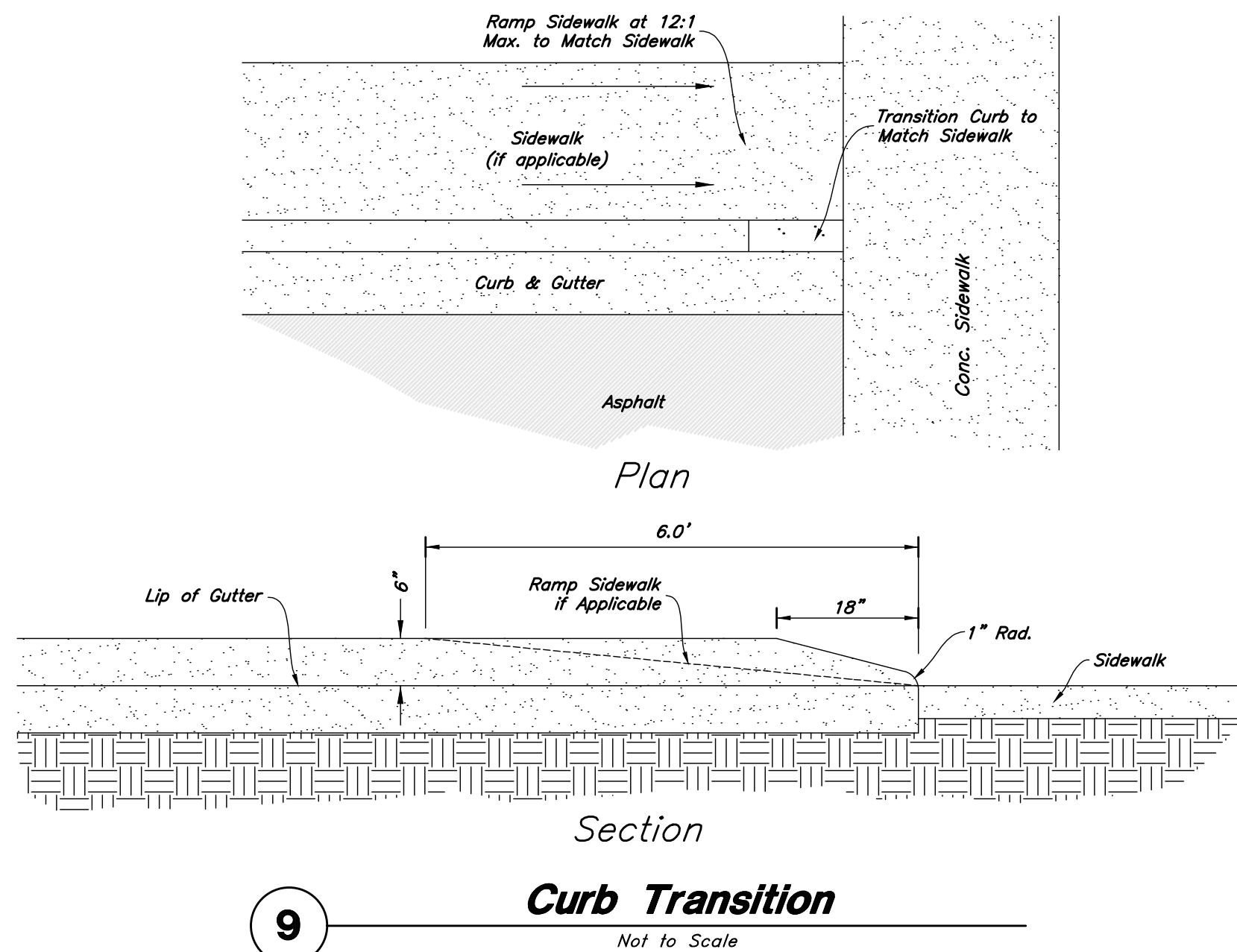
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### C3.1

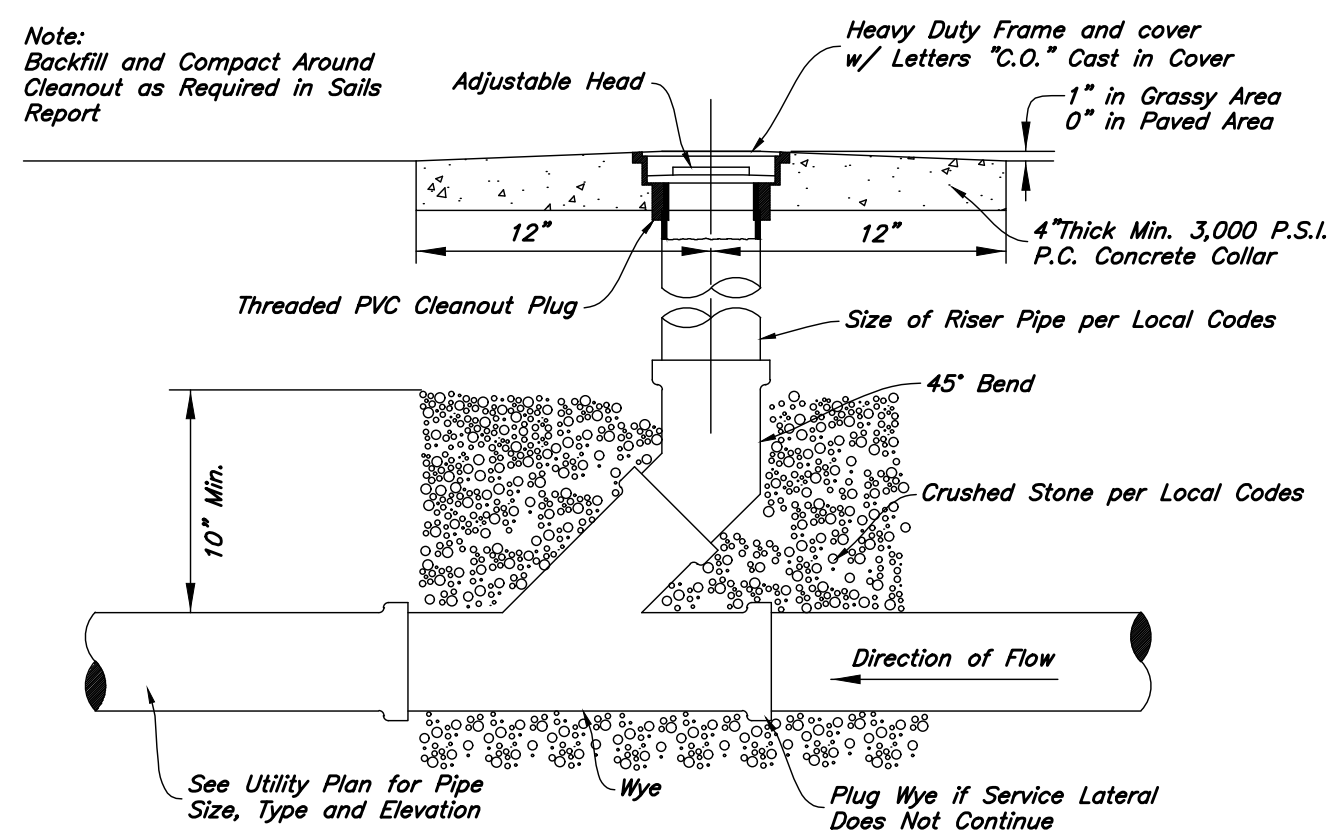
1. **REINFORCEMENT:** ASTM A 615, grade 60, galvanized or epoxy coated deformed steel rebar or smooth steel dowels with diameter and length as indicated.
- A. Space rebar and dowels at 12 to 15 inches on center.  
B. Grease dowels to provide movement in expansion joints.  
C. Keep tie bars in the vertical center of the concrete slab and perpendicular to the joint during concrete placement.
2. **SAWING:** Keep at least 3 working power saws on-site when concrete is being placed. Saw crack control joints (contraction joints) before shrinkage cracking takes place. Do not tear or ravel concrete during sawing. In cool weather, the joint sawing may be delayed only for the time required to prevent tearing and raveling the concrete. Cut joints to dimensions recommend by sealant manufacturer and approved by ENGINEER.
3. **JOINTS:** Lay out joints to aid construction and control random cracking.
- A. Joint Spacing shall be 12 feet maximum on center in both directions.  
B. Extend transverse contraction joints continuously across the full width of the concrete. Make the joints coincide with curb and gutter joints.  
C. Make adjustments in joint locations to meet inlet or manhole locations.  
D. Expansion joints shall be placed where concrete abuts a building wall, sidewalk, curb, gutter or any immovable structure.
4. **JOINT FILLER:** Bituminous (Asphalt or tar) mastic, ASTM D994. Formed and encased between 2 layers of bituminous saturated felt or 2 layers of glass-fiber felt extending to the bottom of the concrete slab.
5. **BACKER ROD:** Round Rods. It must be oversized approximately 25 percent to fit tightly into each joint and compatible with hot poured sealant.
6. **JOINT SEALANT:** Hot applied, Asphalt base type, ASTM D 3405. Remove dirt, oil, and curing compounds from joint reservoir. Seal joints immediately after cleaning.



10 Concrete Joint Detail  
Not to Scale

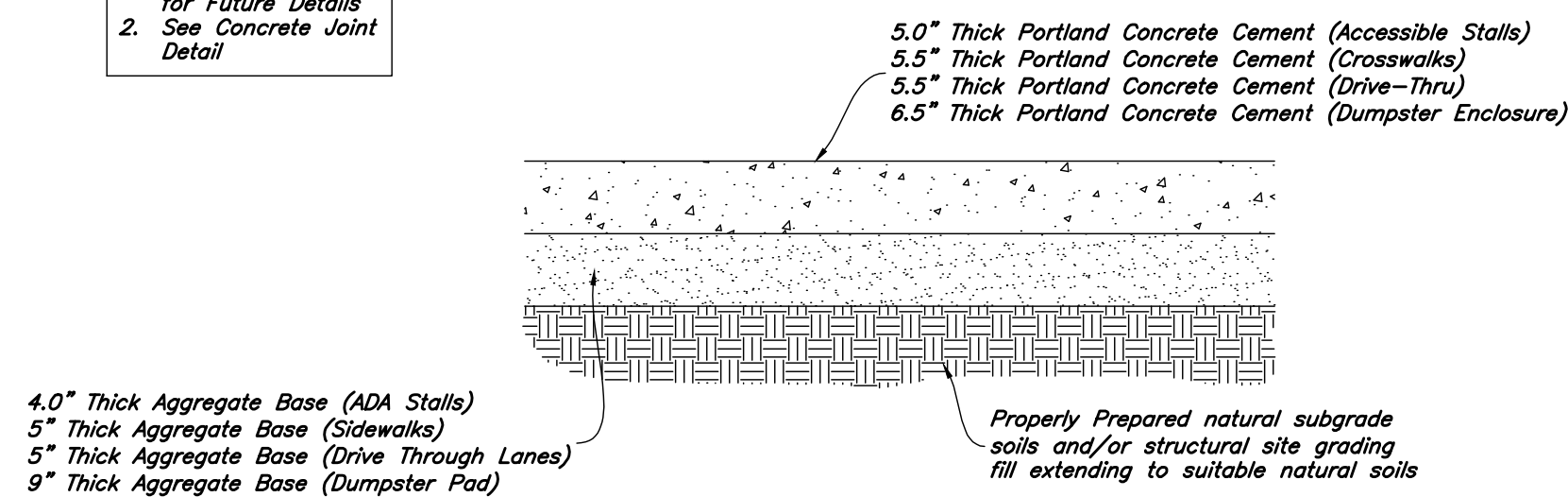


8 Concrete Collar Detail  
Not to Scale



7 Typical Cleanout Detail  
Not to Scale

1. See Geotechnical Report for Project for Future Details  
2. See Concrete Joint Detail



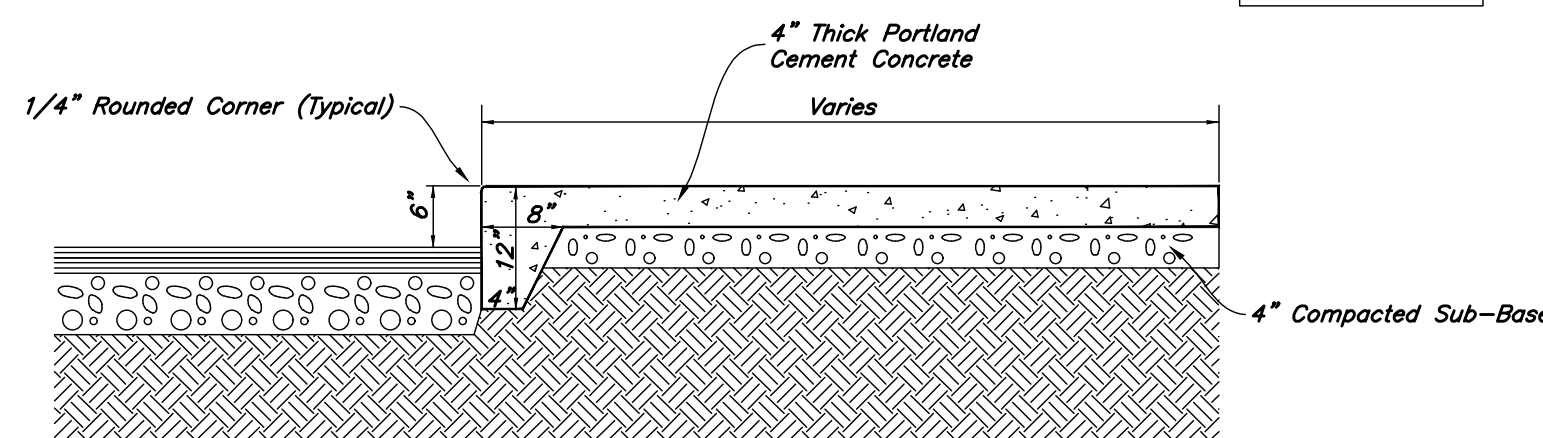
6 Concrete Paving Section  
Not to Scale

Contraction Joints

- A. Spacing = 10' O.C.

Expansion Joints

- A. Make expansion joints full depth, see joint detail  
B. Place expansion joint at aa cold joints  
C. Expansion joints are required at the start of end of curb radius.



5 Thickened Edge Walk  
Not to Scale

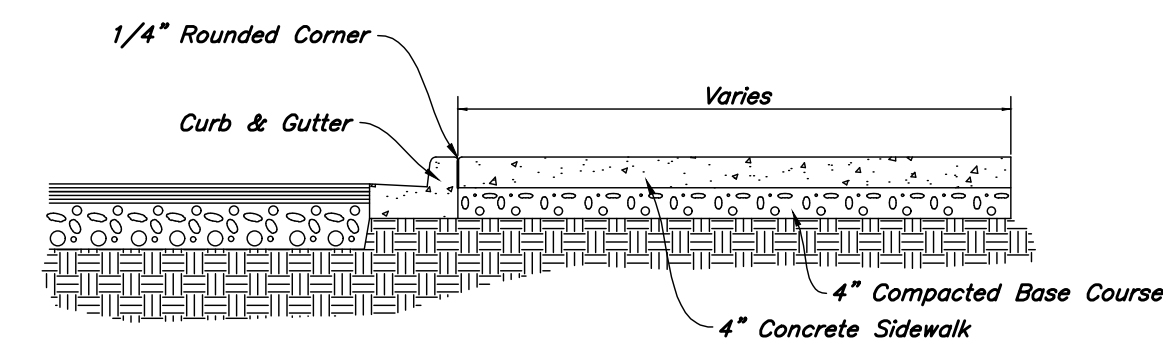
Contraction Joints

- A. Spacing = 10' O.C.

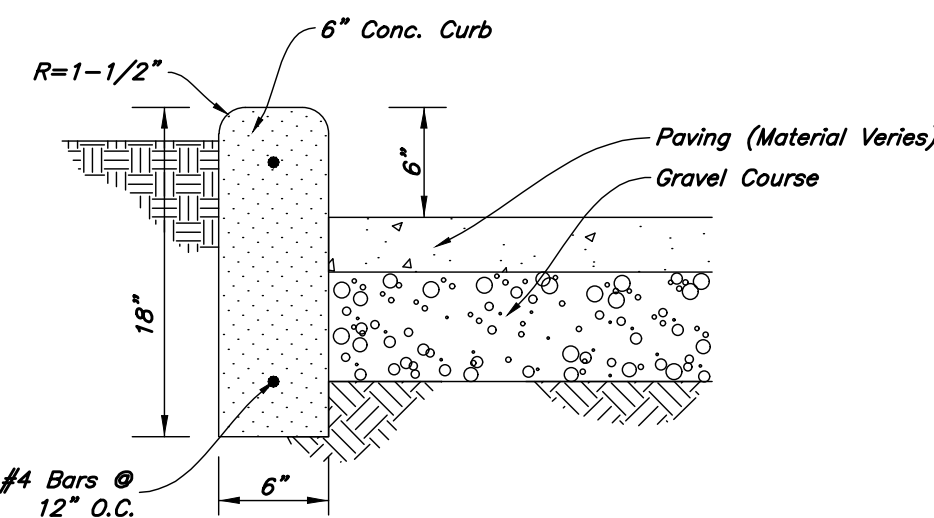
Expansion Joints

- A. Make expansion joints full depth, see joint detail  
B. Place expansion joint at aa cold joints  
C. Expansion joints are required at the start of end of curb radius.

1. See Concrete Joint Detail

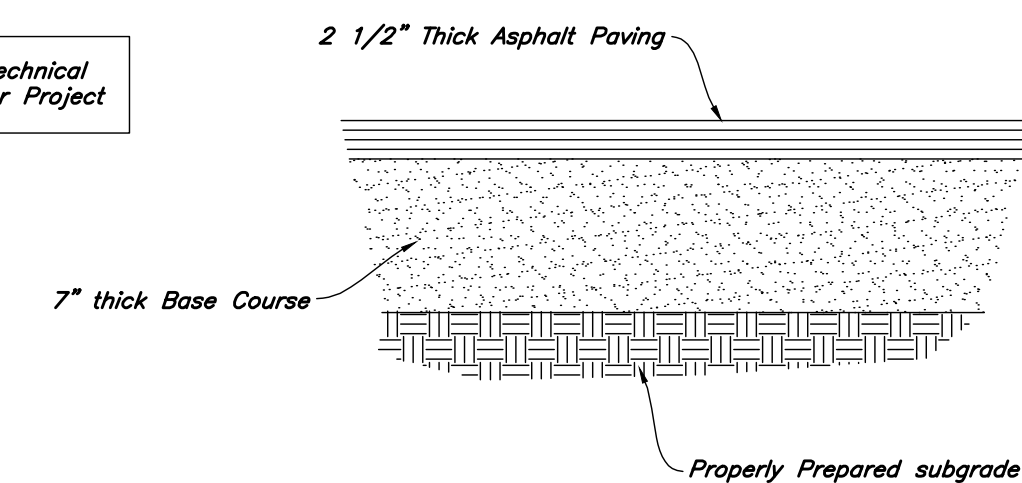


4 Typical Sidewalk Detail  
Not to Scale



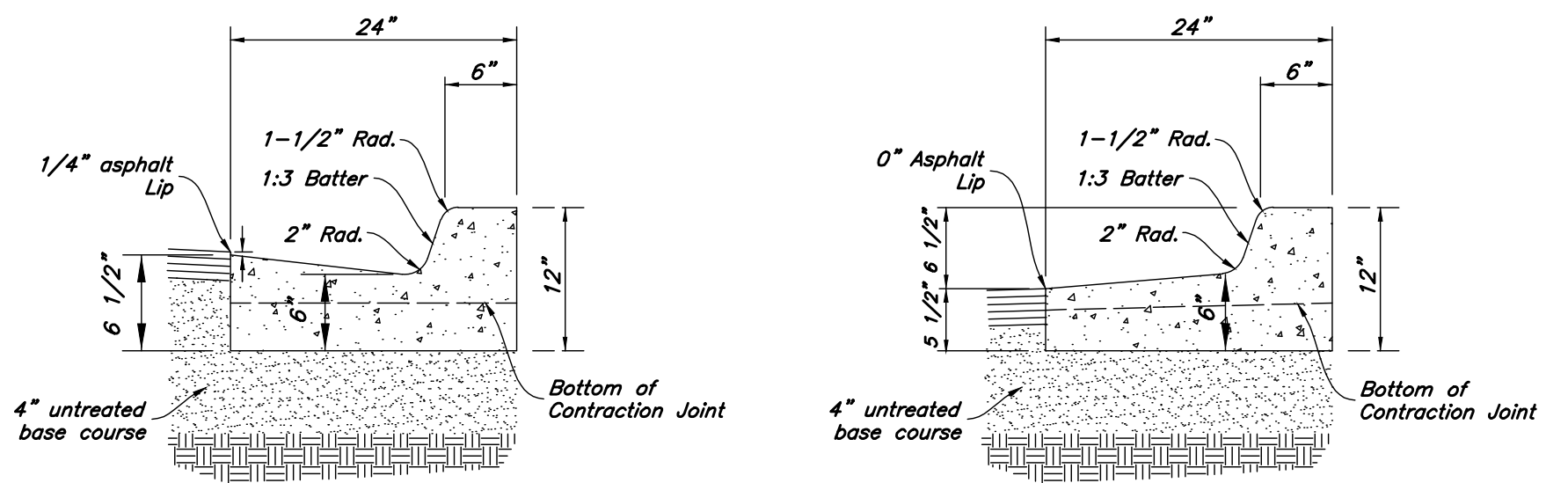
3 Curb Wall Detail  
Not to Scale

1. See Geotechnical Report for Project



2 Standard Asphalt Section  
Not to Scale

1. Contraction Joints  
A. Spacing = 10' o.c., see joint detail  
B. 1/8" wide by 2" deep from top of curb at 15'-0" intervals
2. Expansion Joints  
A. Make expansion joints full depth, see joint detail  
B. Place expansion joint at all cold joints  
C. Expansion joints are required at ends of all radii 0.08.  
D. Required 5'-0" on each side of drainage structures  
E. Required at 90'-0" maximum intervals in straight curb and gutter  
F. Provide #6 x 18" long smooth steel dowel bars with 1" dia. grease cap through expansion joints (3/4" thick bituminous filler material)
3. 2'-6" Long tie bar on 2'-6" centers shall be provided when curb is adjacent to P.C.C. pavement
4. Provide (2) #6 x 2'-6" long tie bars to connect existing and new curb and gutter
5. Remove forms as early as possible. Brush top and face of curbs to remove all imperfections. Typical of all form work.
6. All radii shall be true arcs
7. Medium to light broom finish on all exterior concrete



Note: All Curb and Gutter to be Standard Unless Otherwise Noted

1. See Concrete Joint Detail

1 24" Curb And Gutter  
Not to Scale

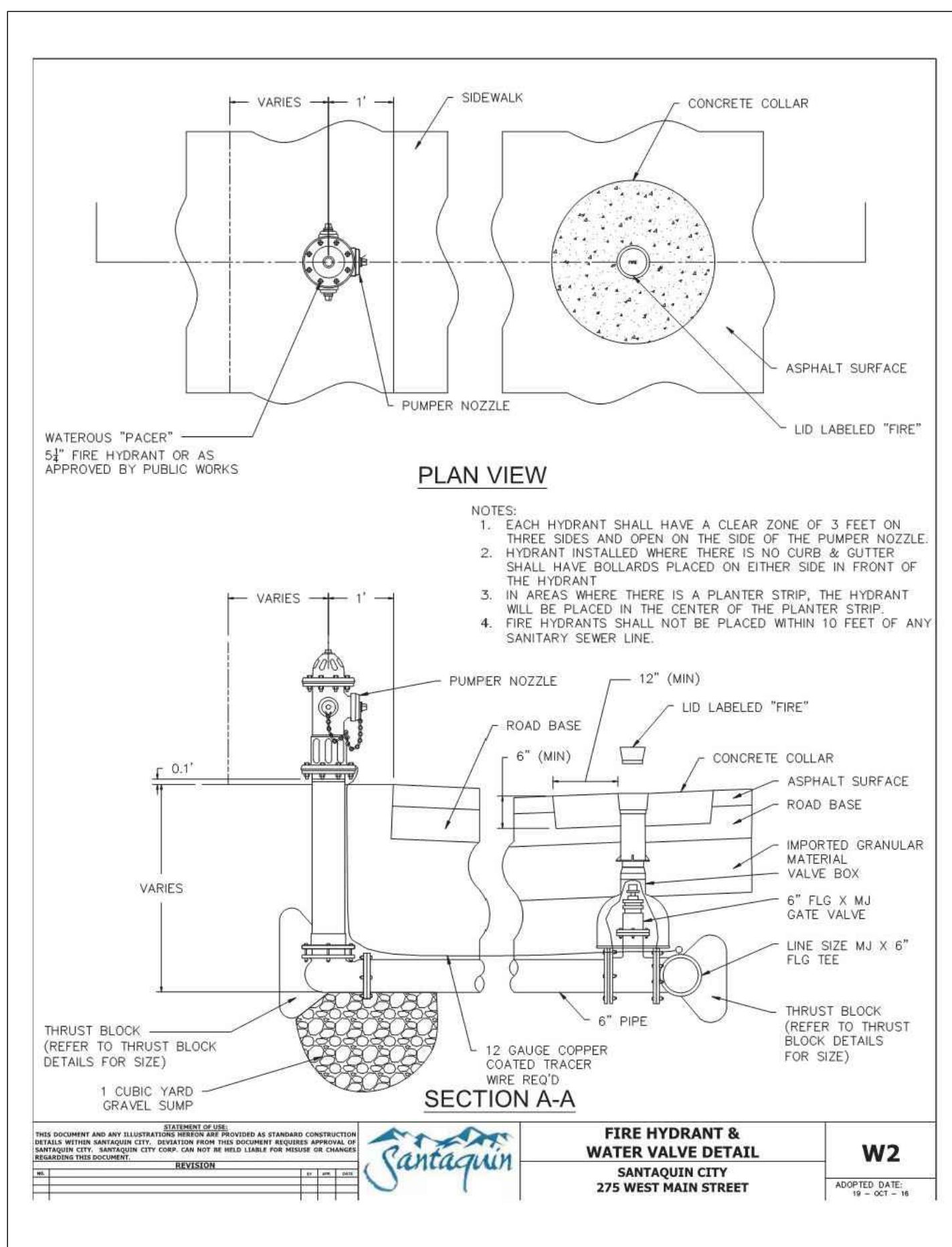
Designed by: SY  
Drafted by: KF  
Client Name: Ridley's  
21-003 DT

ANDERSON WAHLEN & ASSOCIATES  
No. 789989  
2010 North Redwood Road, Salt Lake City, Utah 84116  
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Details  
Filz Drinks  
30 North 400 East Street  
Santiquin City, Utah

REGISTERED PROFESSIONAL ENGINEER  
Shaun A. Young  
No. 789989  
5/14/21  
STATE OF UTAH

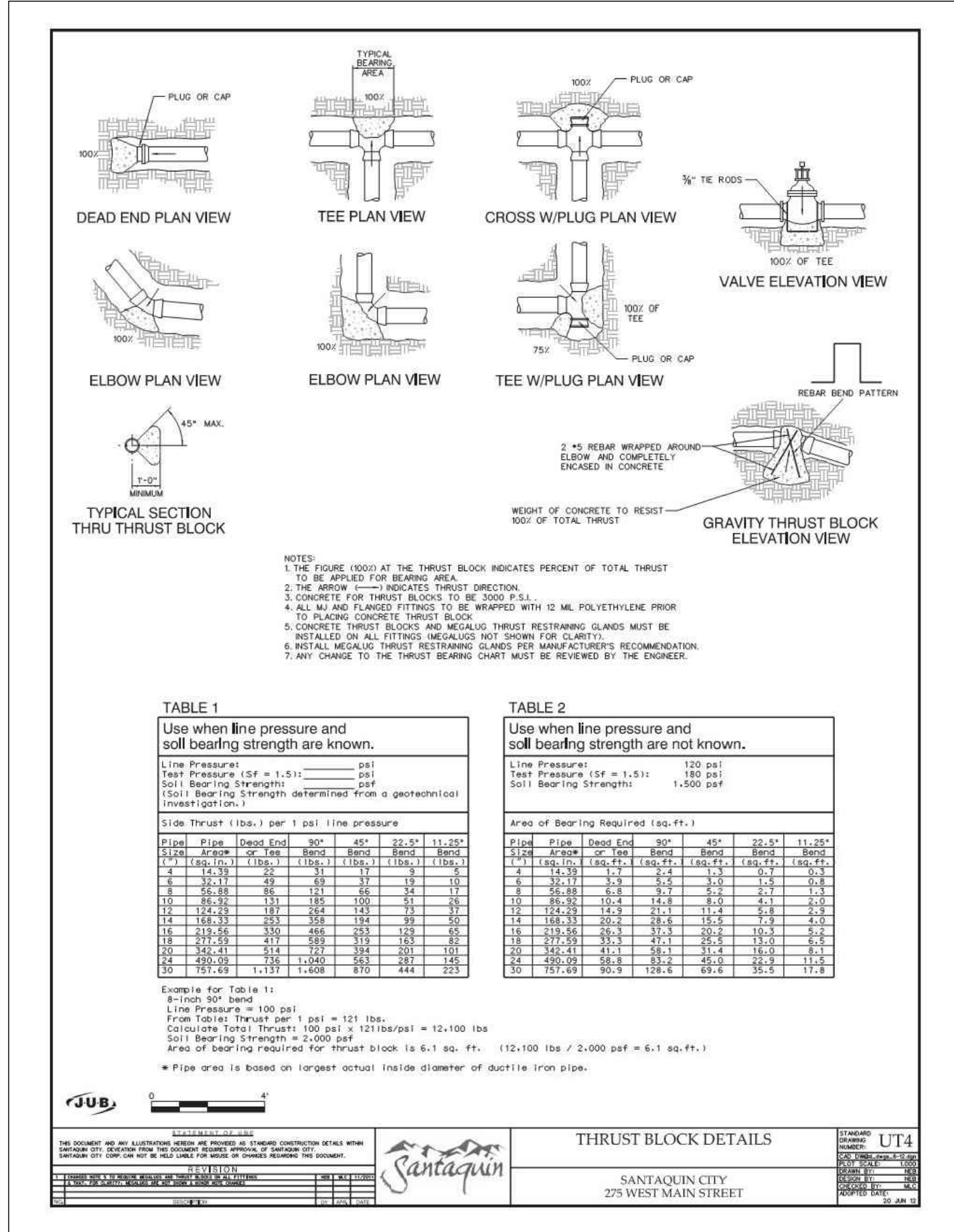
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C4.1



**Santaquin City Std. Dwg. W2  
Fire Hydrant & Water Valve**

16

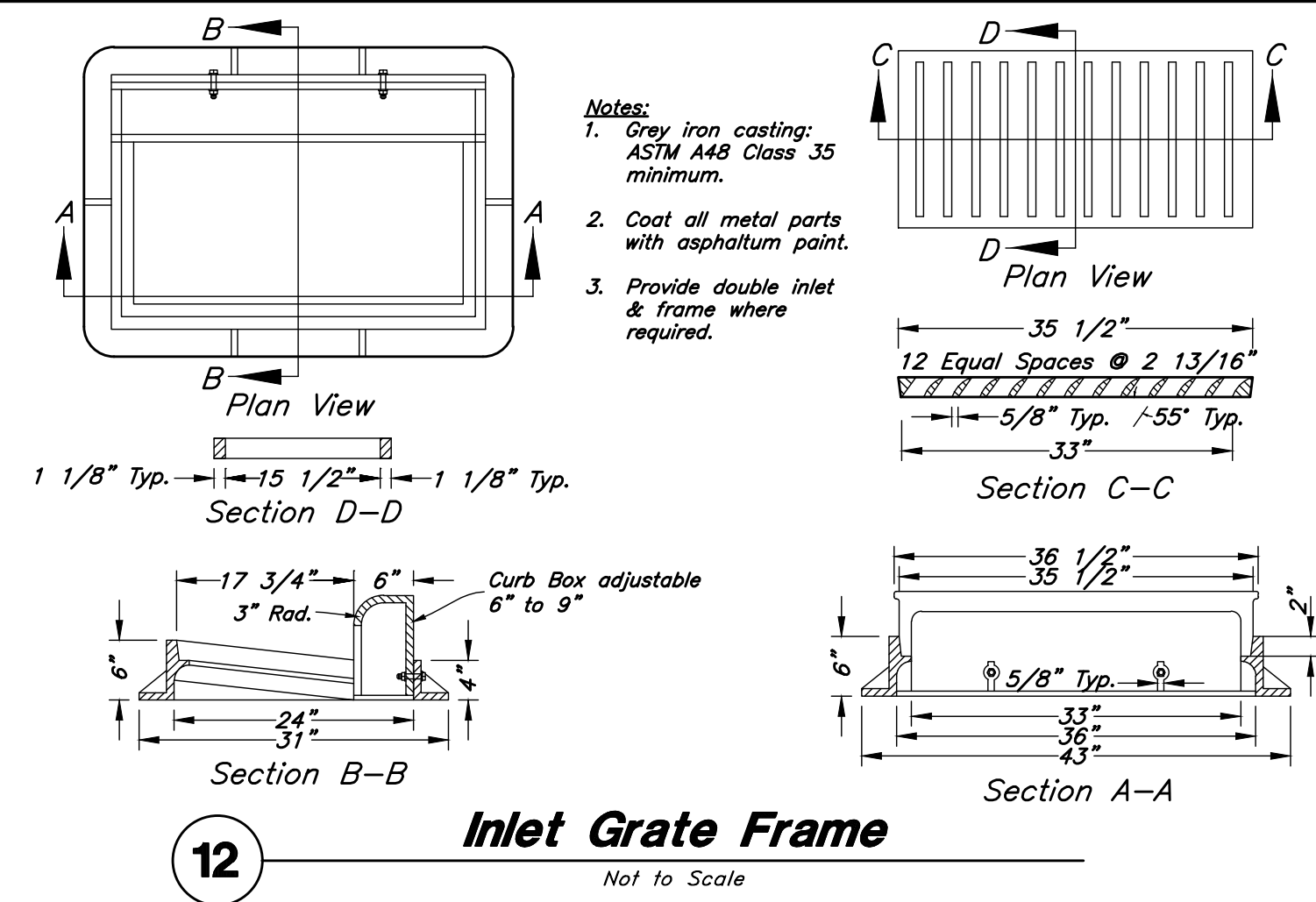
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**Santaquin City Std. Dwg. UT4  
Thrust Block Details**

14

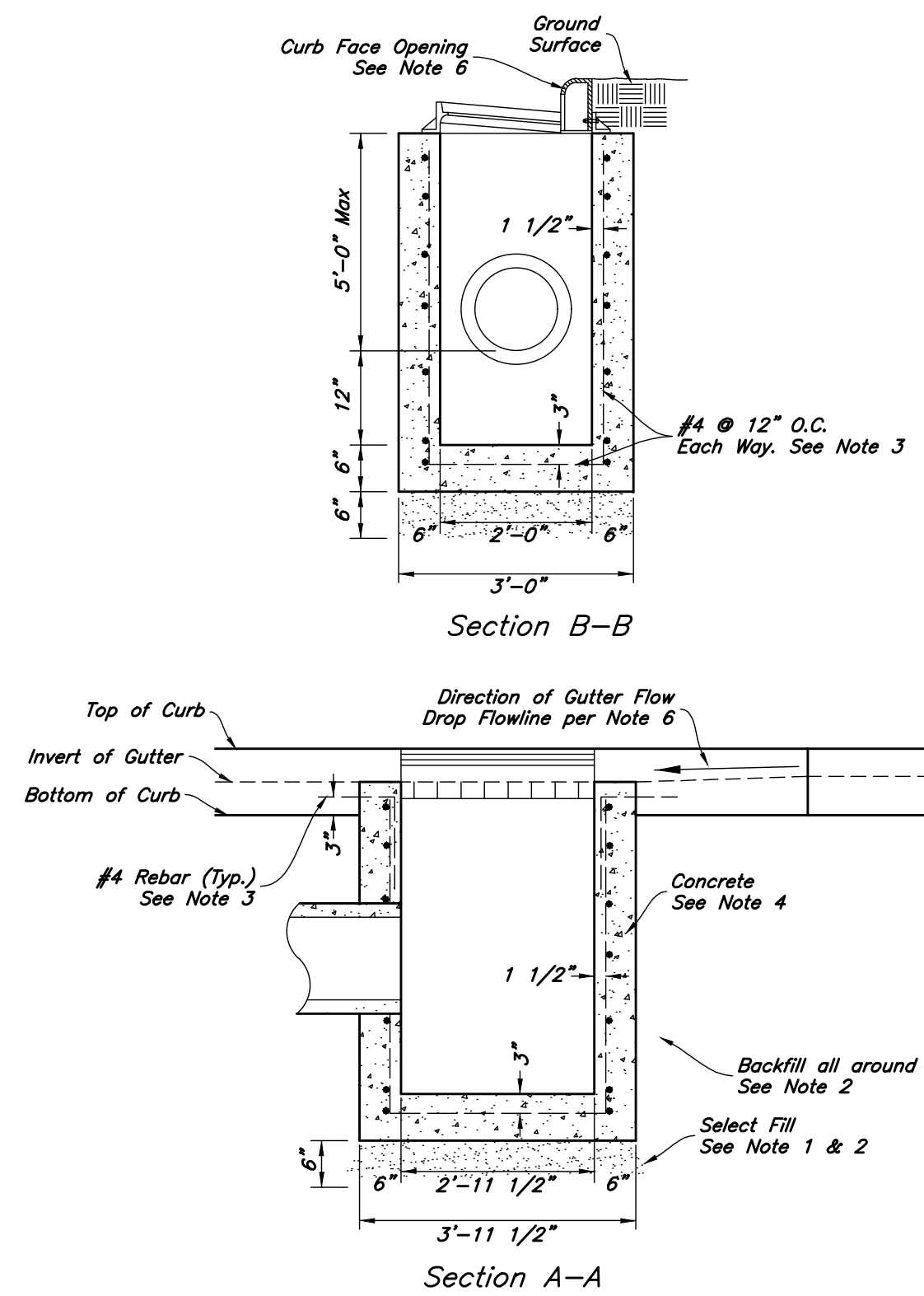
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**Inlet Gate Frame**

Not to Scale

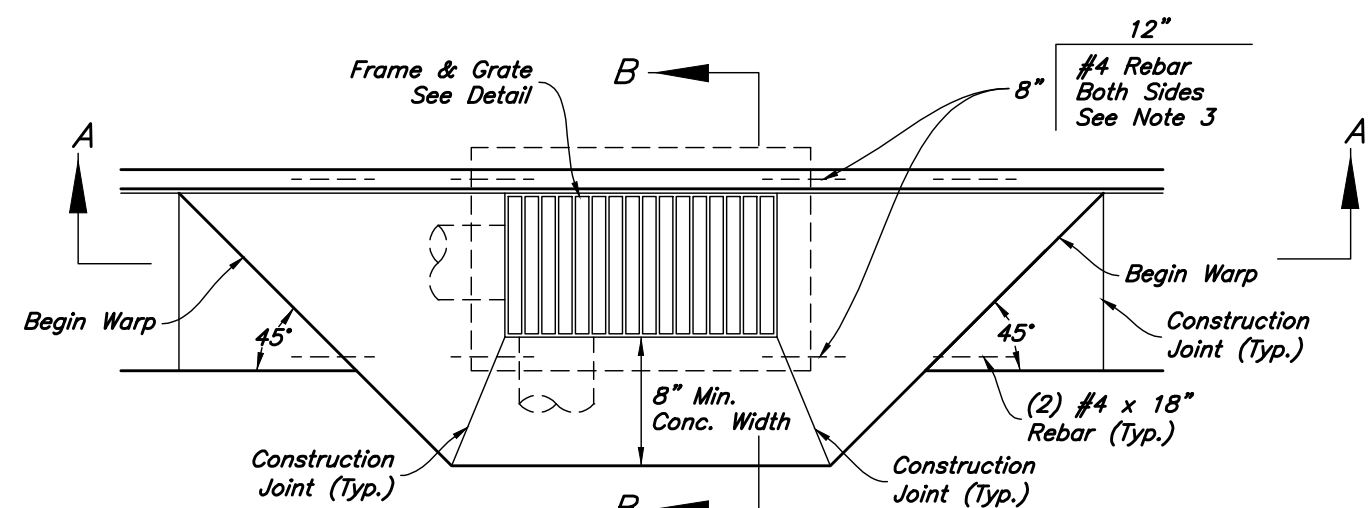
12



**Curb Inlet with Single Grate**

Not to Scale

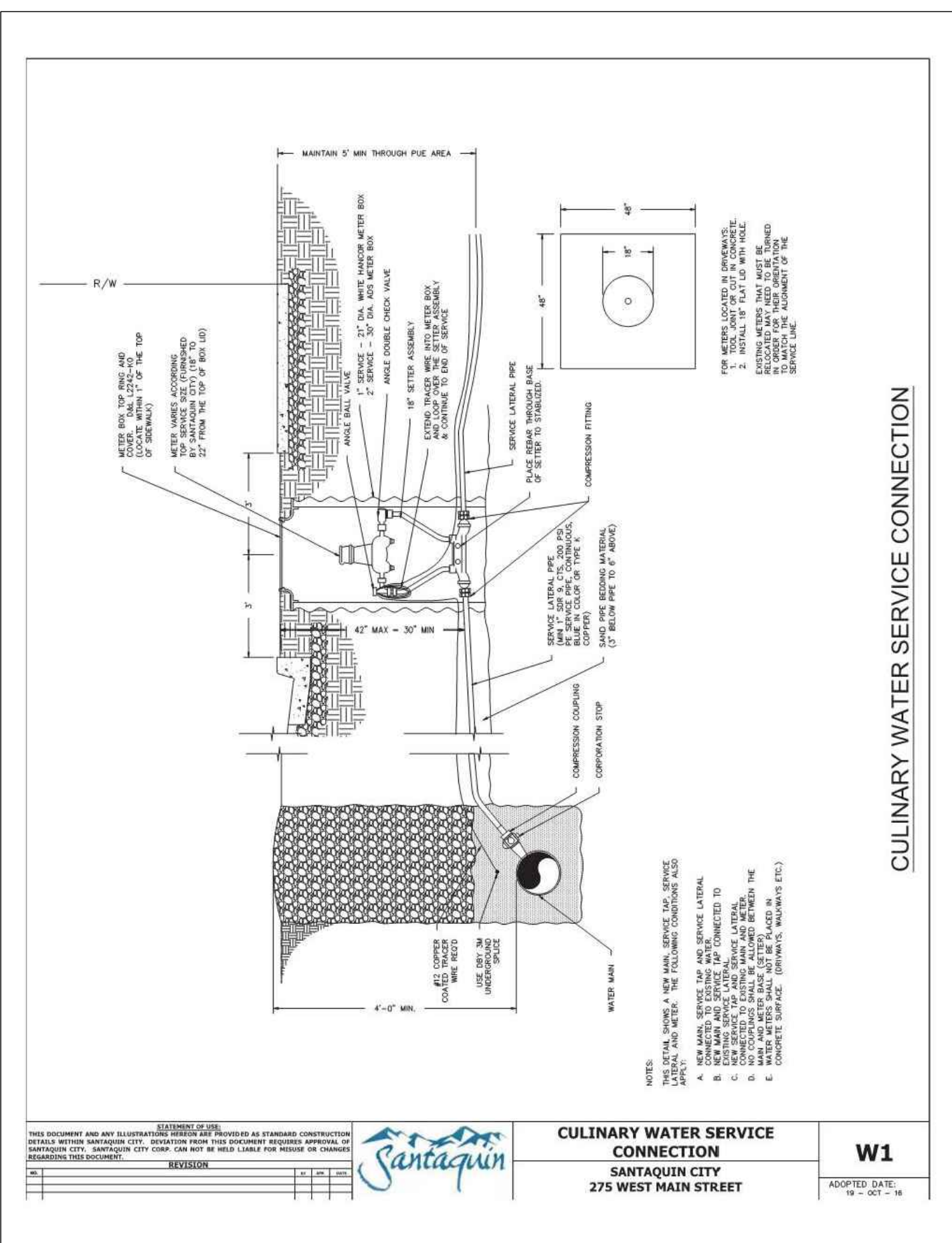
- Catch Basin Notes:**
1. Select Fill: Use untreated base course grade 1 or grade 3/4 per APWA Section 02060. Use of sewer rock or recycled aggregate requires Engineers written approval.
  2. Backfill: Install and compact all backfill material or APWA Section 02321.
  3. Reinforcement: Use ASTM A 615, grade 60 deformed steel rebar. See APWA Section 03200.
  4. Concrete: Class 4,000 per APWA Section 03304. Place per APWA Section 03310. Apply a sealing / curing compound per APWA Section 03390 or use an acceptable alternate curing method.
  5. Pipe Laterals: The drawing shows alternate connections to the curb outlet. Refer to construction drawings for connection locations.
  6. Curb Face Opening: Make opening 4 inches high. Provide at least a 2 inch drop from the gutter flowline to the invert of the curb face opening.
  7. Conc. Apron in front of Inlet Grate to be 8" min. & 12" max.



11

**Curb Inlet with Single Grate**

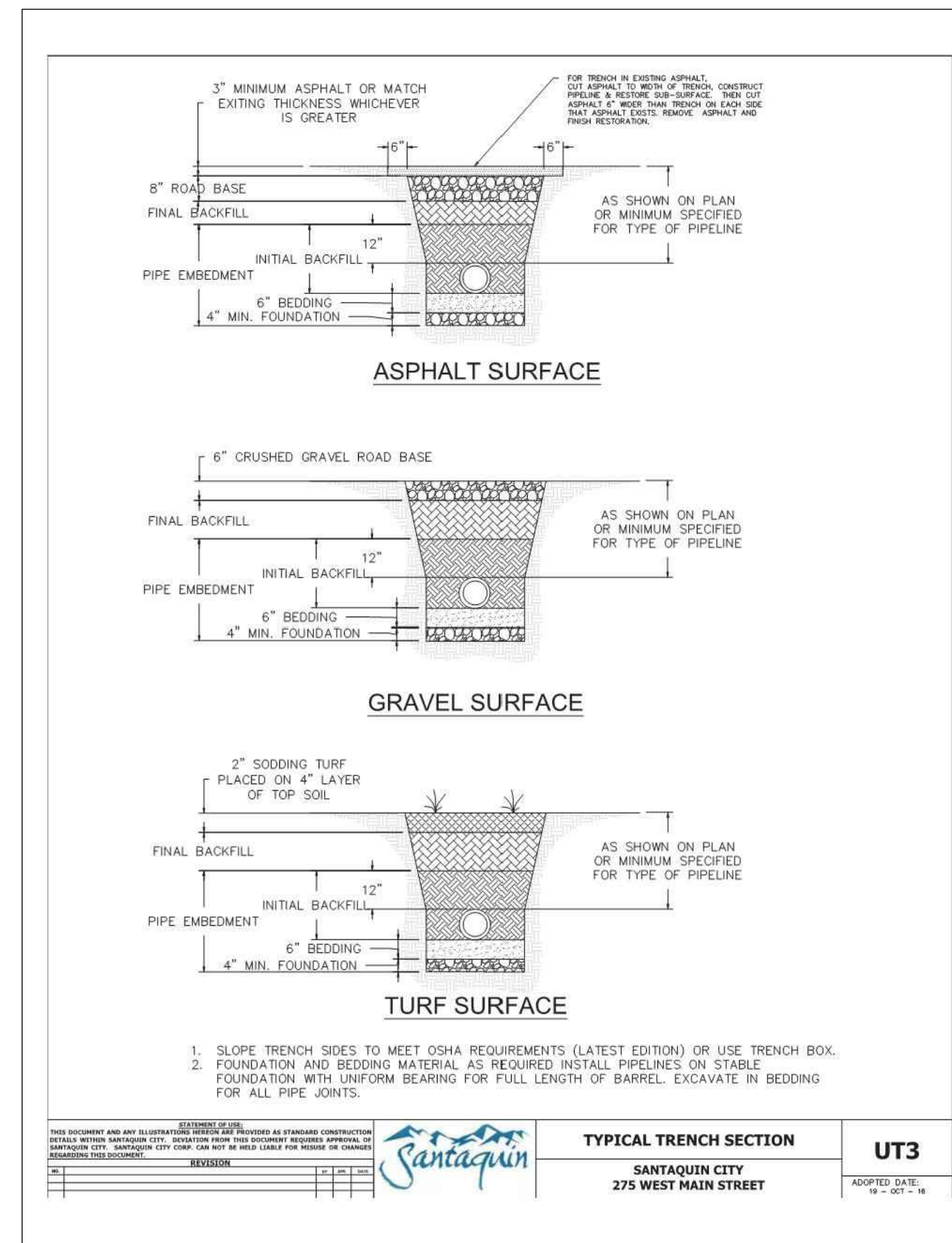
Not to Scale



**Santaquin City Std. Dwg. W1  
Culinary Water Service Connection**

15

Not to Scale



**Santaquin City Std. Dwg. UT3  
Typical Trench Section**

13

Not to Scale

Designed by: SY  
Drafted by: KF  
Client Name:

Ridley's

21-003 DT

**ANDERSON WAHLEN & ASSOCIATES**  
No. 789889  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 521-8529 - [AWAengineering.net](mailto:AWAengineering.net)

**Details**  
**Fiz Drinks**  
30 North 400 East Street  
Salt Lake City, Utah

REGISTERED PROFESSIONAL ENGINEER  
No. 789889  
SHAUN A. YOUNG  
5/14/21  
STATE OF UTAH

14 May, 2021

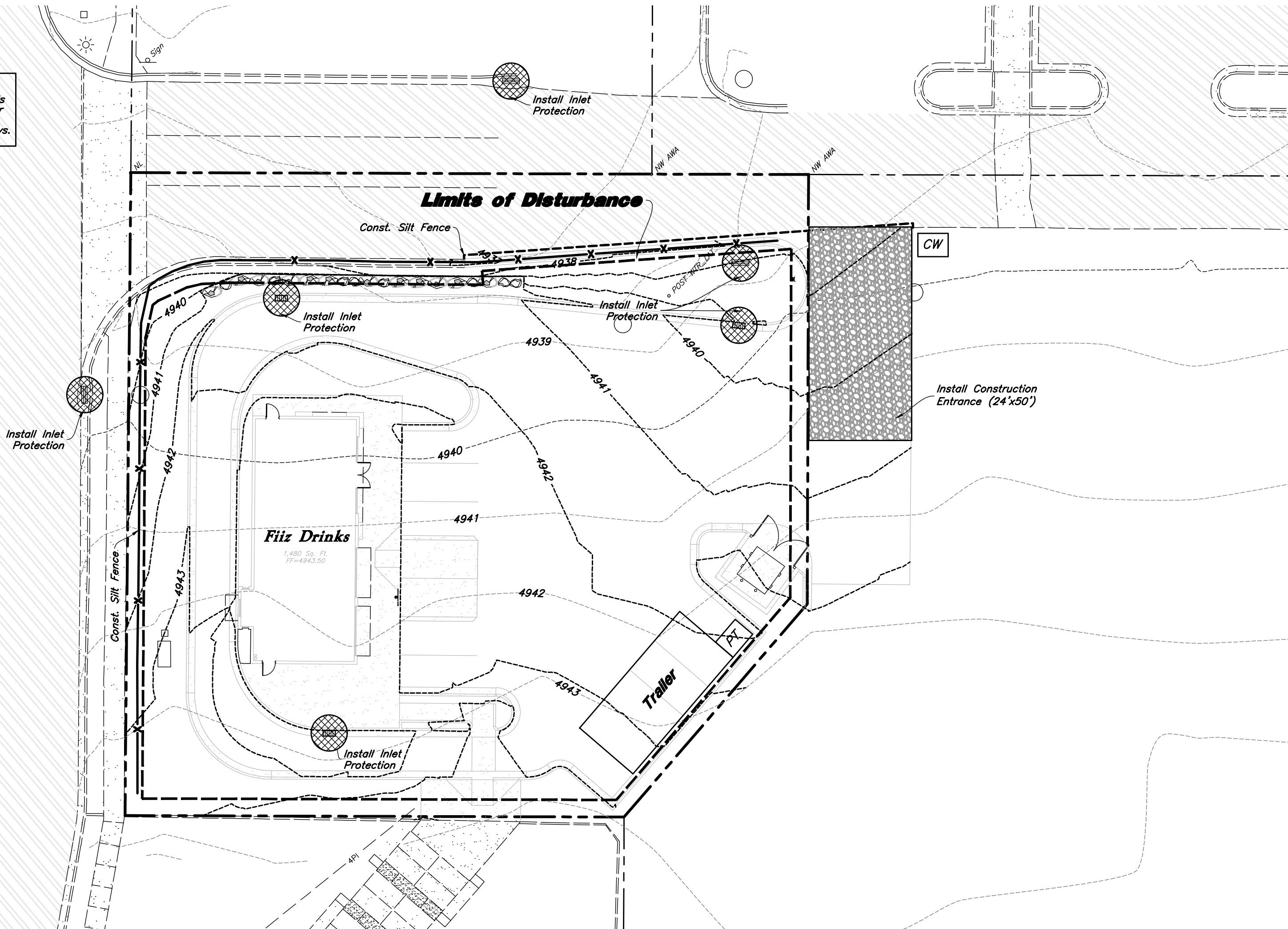
SHEET NO.

**C4.2**



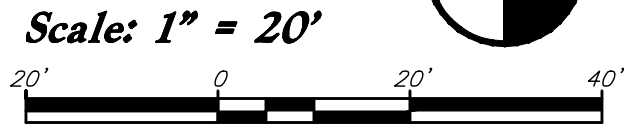
**Note:**  
Vehicle tracking on public roads is strictly prohibited. Contractor to sweep as necessary to remove sediment from roadways.

400 East Street



**Inlet Protection**

Not to Scale



**Legend**

Place Inlet Protection at all Inlet Locations to prevent boxes from silting.

Silt Fence

Limit of Disturbance

Construction Entrance / Truck Wash (50'x24' Min.)

Concrete Washout Area

Portable Toilet

Gravel Sock

Existing Contour

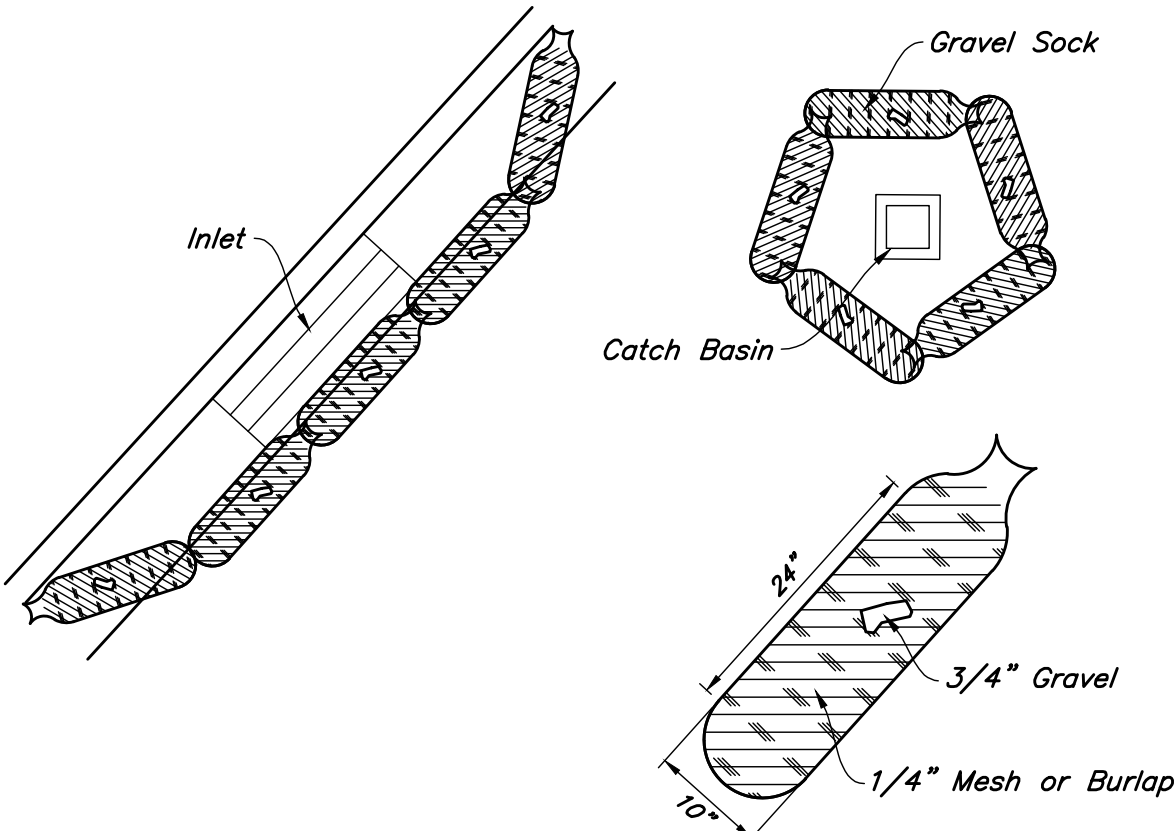
Existing Spot

Proposed Contour

Limits of Disturbance = 17,688 s.f. or 0.406 acres

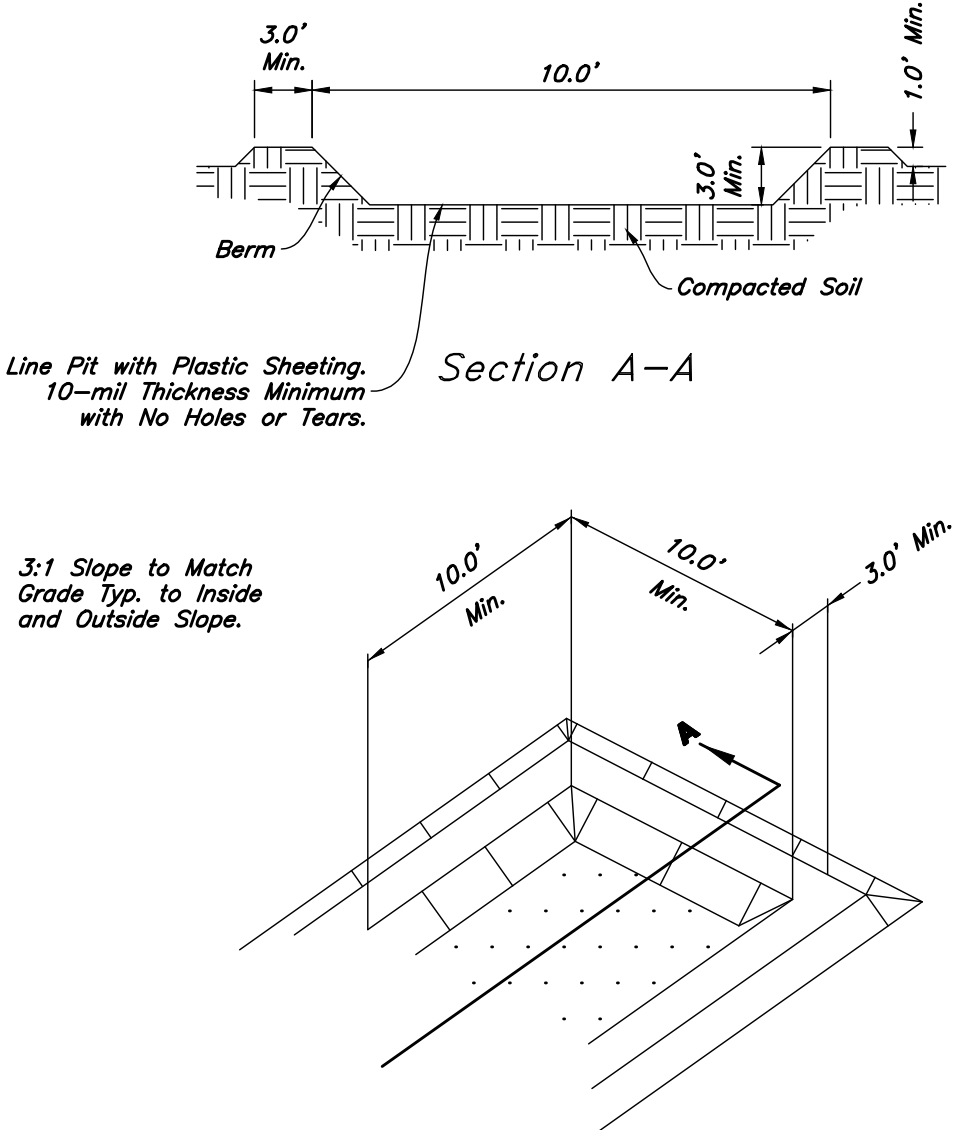
**Erosion Control Notes**

- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.
- All Construction equipment will enter thru Designated Construction Entrances.
- Coordinate Entrance locations with the local jurisdiction.
- Inlet Protection Devices and Barriers shall be Repaired or Replaced if they Show Signs of Undermining or Deterioration.
- Silt Fences shall be Repaired to their Original Conditions if Damaged. Sediment shall be Removed from Silt Fences when it Reaches one-half the Height of the Silt Fence.
- The Construction Entrances shall be Maintained in a Condition which will Prevent Tracking or Flow of Mud onto Public Right-of-Way. This may Require Periodic Top Dressing of the Construction Entrances as Conditions Demand.
- All Materials Spilled, Drapped, Washed or Tracked from Vehicles onto Roadways or into Storm Drains must be Removed Immediately.
- Due to the Grade Changes During the Development of the Project, the Contractor shall be Responsible for Adjusting the Erosion Control Measures (Silt Fences, Inlet Protection, Etc...) to Prevent Erosion.
- Contractor shall use Vehicle Tracking Control at all Locations where Vehicles will Enter or Exit the Site. Control Facilities will be Maintained while Construction is in Progress, Moved when Necessary and Removed when the Site is Paved.
- Inlet Protection Devices shall be Installed Immediately upon Individual Inlets becoming Functional.
- This Document is Fluid Allowing for Changes, Modifications, Updates and Alternatives. It is the Responsibility of the Contractor to Keep Record of all Alterations made to the Erosion Control Measures Implemented for the Project on this Plan and in the Storm Water Pollution Prevention Plan.
- Cover Exposed stockpiles of soils, construction and landscaping materials with heavy plastic sheeting.
- Re-vegetate areas where landscaping has died or not taken hold.
- Divert storm water runoff around disturbed soils with berms or dirt swales.
- Contractor to provide permanent stabilization to any areas disturbed by construction by hydreseeding native vegetation (if not otherwise stabilized).
- Contractor is responsible for obtaining a fugitive dust control permit through the Division of Air Quality. All responsibilities relating to the production of the dust control plan shall be the responsibility of the Contractor.



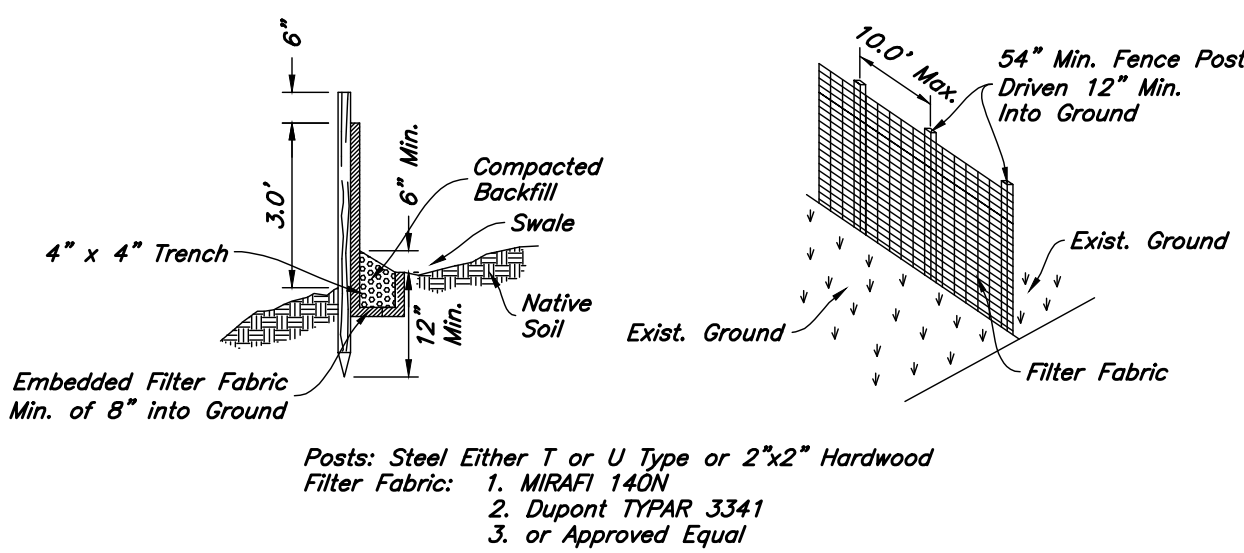
**Sediment Barrier**

Not to Scale



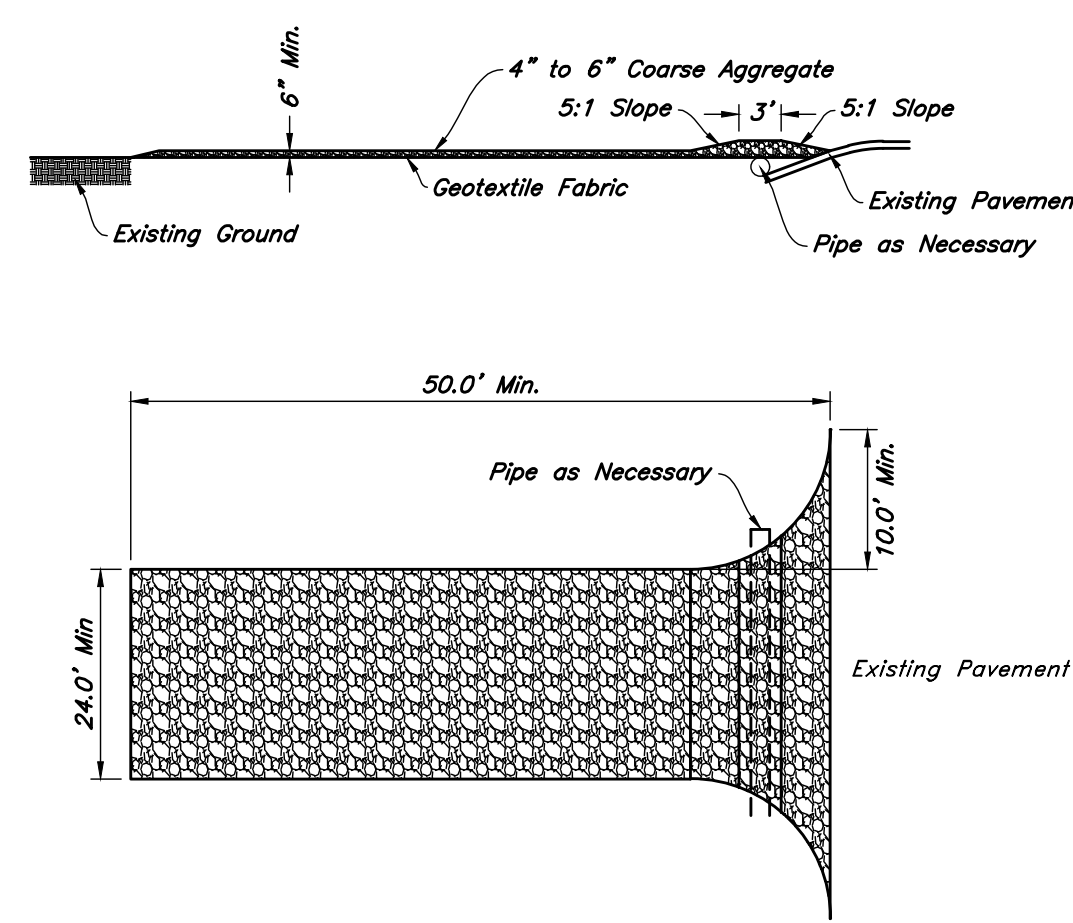
**Concrete Washout**

Not to Scale



**Silt Fence Section**

Not to Scale

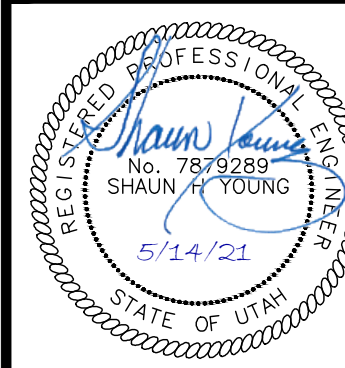


**Stabilized Construction Entrance**

Not to Scale

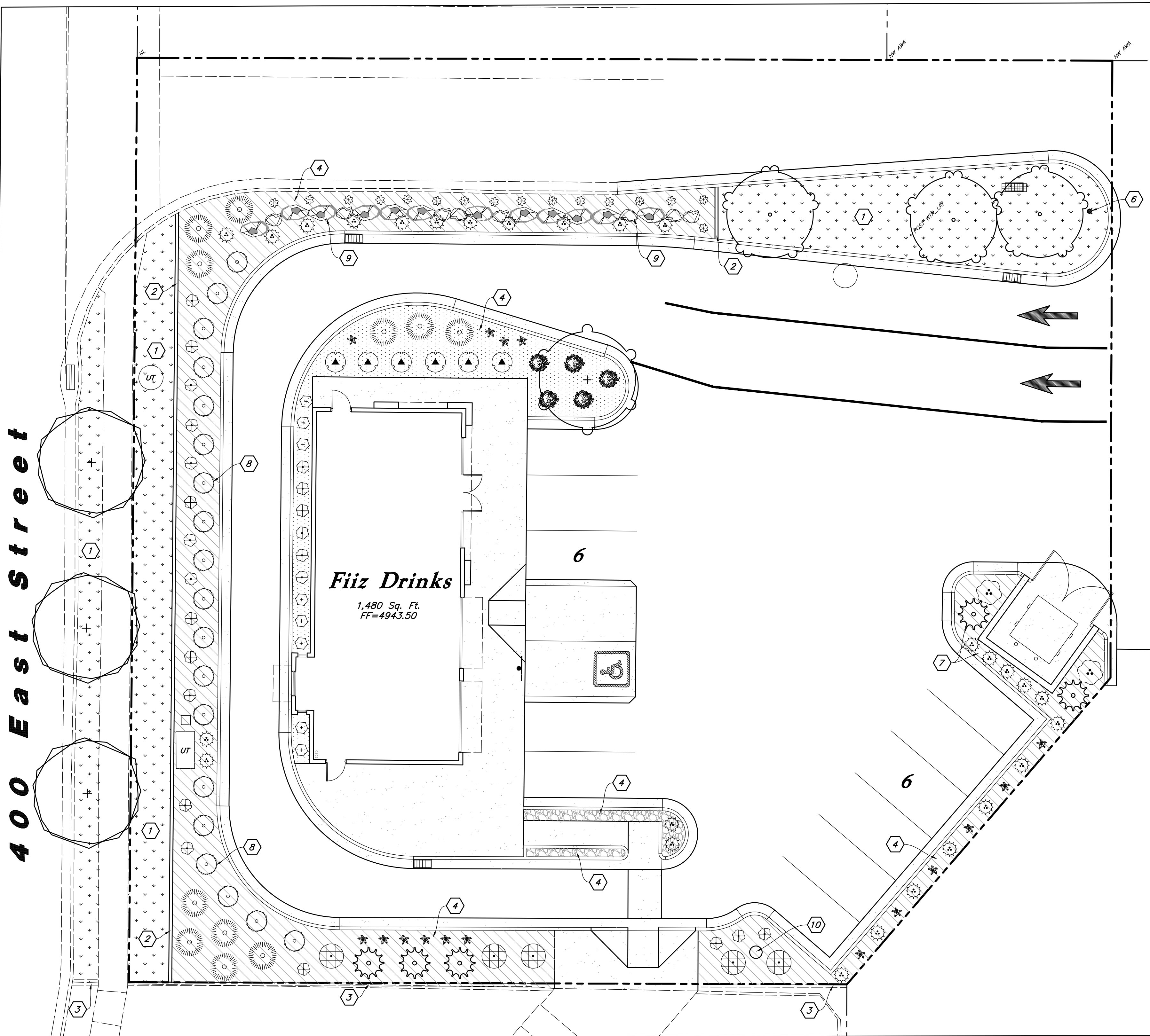
**ANDERSON WAHLEN & ASSOCIATES**  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 521-8529 - AWaengineering.net

**Erosion Control Plan**  
**Filiz Drinks**  
30 North 400 East Street  
Santiquin City, Utah



14 May, 2021  
SHEET NO.  
**C5.1**

400 East Street



Scale: 1" = 10'

PLANT SCHEDULE

DECIDUOUS TREES	QTY	BOTANICAL / COMMON NAME	SIZE
	3	Koelreuteria paniculata / Golden Rain Tree	2" Caliper
	1	Quercus robur 'Skyrocket' / Skyrocket English Oak	2" Caliper
	3	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	2" Caliper
EVERGREEN TREES	QTY	BOTANICAL / COMMON NAME	SIZE
	5	Picea pungens glauca / Columnar Spruce	6-8' Ht.
EVERGREEN SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE
	19	Buxus x 'Green Mound' / Green Mound Boxwood	5 gal
	11	Juniperus horizontalis 'Bar Harbor' / Bar Harbor Creeping Juniper	5 gal
ORNAMENTAL GRASSES	QTY	BOTANICAL / COMMON NAME	SIZE
	27	Calamagrostis x a. 'Karl Foerster' / Feather Grass	1 gal
	23	Helictotrichon sempervirens 'Sapphire' / Blue Oat Grass	1 gal
PERENNIALS	QTY	BOTANICAL / COMMON NAME	SIZE
	16	Hemerocallis x 'Red Hot Returns' / Red Hot Returns Daylily	1 gal
	16	Nepeta x faassonii 'Dropmore' / Catmint	1 gal
DECIDUOUS SHRUB	QTY	BOTANICAL / COMMON NAME	SIZE
	8	Berberis thunbergii 'Orange Rocket' / Orange Rocket Barberry	5 gal
	5	Euonymus alatus 'Compactus' / Compact Burning Bush	5 gal
	2	Prunus x cistena / Purple Leaf Sand Cherry	5 gal
	6	Ribes alpinum 'Green Mound' / Green Mound Alpine Currant	5 gal
	5	Spiraea x bumalda 'Goldflame' / Goldflame Spirea	5 gal
LAWN	QTY	BOTANICAL / COMMON NAME	TYPE
	2,112 sf	Poa pratensis / Kentucky Bluegrass Blend	sod

**Landscape Data**  
Site Area = 22,907 s.f. (0.526 ac.)  
Landscape Area Required = 2,291 s.f. (10%)  
Landscape Area Provided = 5,218 s.f. (23%)  
Parking Area = 16,157 s.f.  
Landscape Parking Required = 1,616 s.f. (10%)  
Landscape Parking Provided = 1,694 s.f. (10.5%)  
400 East Street Frontage = 126 Lf.  
400 East Street Trees Req. = 3 Trees (3 Provided)

**Landscape Notes:**  
1. All Landscape Material Shall be Fully Irrigated by an Automatic Irrigation System. Drip for Shrub Areas and Spray for Lawn Areas. See Irrigation Sheets L2.1 for Layout and Sheet L3.1 for Details.  
2. Adjust Landscape Material as Needed to Allow Access to all New and Existing Utilities. Irrigation Components Shall be Spaced Between Plant Material to Allow Easy Access for Maintenance.  
3. All Areas Disturbed by Construction Shall be Landscaped and Not Left Undone. Blend New Landscape into Existing Corner Landscape.  
4. No Edging Shall be Used Between Different Stone. Provide a Nice Clean Smooth Flowing Defined Line Between Stone.

**Landscape Keynotes**  
1 Install New Lawn  
2 Install Landscape Concrete Curbing  
3 Existing Landscape Concrete Curbing  
4 Install Shrub Planter with Decorative Stone and Weed Barrier  
5 Irrigation Water Meter and Connection - See Irrigation Plan for More Detail  
6 New Fire Hydrant; Verify that There is 3' Clearance Around Hydrant  
7 Planting Screen for Dumpster  
8 3' High Evergreen Planting Screen for Parking Lot  
9 Rock Retaining Wall; Clean Dirt Out Between Rocks and Install Decorative Stone; Wash Dirt off of Rocks; See Material Schedule for More Detail  
10 Irrigation Secondary Meter- See Utility and Irrigation Plan for More Detail

UT - Existing/New Utility Box or Manhole

MATERIAL SCHEDULE

Symbol	Comments	Detail
	Decorative Stone #1 - Install a (3) Three Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 1" Diameter Crushed, Fractured Talon's Cove (Gray Color) Stone from Utah Landscape Rock (435-250-3851)	Detail: 4/L3.1
	Decorative Stone #2 - Install a (6) Six Inch Depth over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 2" Dia. Crushed, Fractured Stone from Staker Parson Copper Canyon Pit (385-239-0804); Boulders for Wall Shall Match This Decorative Stone Color (Tan and Angular); Install Stone Between Boulders in Retaining Wall	Detail: 4/L3.1
	Decorative Stone #3 - Install over Dewitt Pro5 Weed Barrier; Stone Shall be Used in Shrub Planters Where Shown on Plan; Stone Shall be Washed Prior to Installation; Stone Shall be 4-6" Diameter Crushed, Fractured Stone to Match Decorative Stone #1 (Gray); Interlock and Secure Stone on Steep Slopes; Stone to be Used on Steep Slopes	Detail: 4/L3.1
	4" x 6" Landscape Concrete Curbing - Install Flush to all Concrete Edges between Lawn and Planting Areas; Curbing Shall be Continuous; Adjust Curbing as Needed to Avoid Existing and New Utilities.	Detail: 4/L3.1

General Landscape Notes:

- Plant material quantities are provided for bidding purposes only. It is the contractors responsibility to verify all quantities listed on the plans and the availability of all plant materials and their specified sizes prior to submitting a bid. The contractor must notify the Landscape Architect prior to submitting a bid if the contractor determines a quantity deficiency or availability problem with specified material. The contractor shall provide sufficient quantities of plants equal to the symbol count or to fill the area shown on the plan using the specified spacing. Plans take precedence over plant schedule quantities.
- Contractor shall call Blue Stake before excavation for plant material.
- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
- The landscape contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
- The contractor shall provide all materials, labor and equipment required for the proper completion of all landscape work as specified and shown on the drawings.
- See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
- Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
- All new plant material shall conform to the minimum guidelines established by the American Standard for Nursery Stock Published by the American Association of Nurseryman, Inc. In addition, all new plant material shall be of specimen quality.
- The Owner/Landscape Architect has the right to reject any and all plant material not conforming to the plans and specifications.

- Any proposed substitutions of plant species shall be made with plants of equivalent overall form, height, branching habit, flower, leaf, color, fruit and culture only as approved by the Landscape Architect.
- It is the contractors responsibility to furnish all plant materials free of pests or plant diseases. It is the contractor's obligation to maintain and warranty all plant materials.
- The contractor shall take all necessary scheduling and other precautions to avoid winter, climatic, wildlife, or other damage to plants. The contractor shall install the appropriate plants at the appropriate time to guarantee life of plants
- The contractor shall install all landscape material per plan, notes and details.
- All existing and relocated trees shall be properly protected. Trees damaged during construction shall be replaced at no cost to the owner.
- Plant names are abbreviated on the drawings, see plant ischedule for symbols, abbreviations, botanical, common names, sizes, estimated quantities and remarks.
- No grading or soil placement shall be undertaken when soils are wet or frozen.
- Existing topsoil to be stripped and stockpiled for landscape use. Contractor shall verify existing topsoil amounts and quality with the general contractor. The landscape contractor shall perform a soil test on existing and imported topsoil and amend per soil test recommendations. Soil test to be done by certified soil testing agency. Provide new imported topsoil as needed from a local source. Imported topsoil must be a premium quality dark sandy loam, free of rocks, clods, roots, and plant matter. Topsoil to be installed in all landscaping areas.
- Prior to placement of topsoil in all landscaping areas, all subgrade areas shall be loosened by scarifying the soil to a depth of 6 inches in order to create a transition layer between existing and new soils.
- Provide a 12" depth of stockpiled or imported topsoil in parking islands and an 8 inch depth in all other shrub areas.

- All plant material holes shall be dug twice the diameter of the rootball and 6 inches deeper. Excavated material shall be removed from the site and replaced with plant backfill mixture. The top of the root balls, shall be planted flush with the finish grade.
- Plant backfill mix shall be composed of 3 parts topsoil to 1 part soil pep, and shall be mixed at the planting hole. Deep water all plant material immediately after planting. Add backfill mixture to depressions as needed.
- All new plants to be balled and burrapped or container grown, unless otherwise noted on plant schedule. Container grown trees shall have the container cut and removed. Trees in ball and burrap shall have the strings, burrap or plastic cut and pulled away from the trunk exposing 1/3 of the root ball. For trees in wire baskets cut and remove the wire basket.
- Upon completion of planting operations, all landscape areas with trees, shrubs, and perennials, shall receive specified stone over Dewitt Pro5 Weed Barrier. Stone shall be evenly spread on a carefully prepared grade free of weeds. The top of stone should be slightly below finish grade and concrete areas.
- Sod must be premium quality, evenly cut, established, healthy, weed and disease free, and from an approved source.
- Sod must be laid with no gaps between pieces on a carefully prepared topsoil layer. Sod to be slightly below finish grade and concrete walks and curbing. The laid sod must be immediately watered after installation. Any burned areas will require replacement. Adjust sprinkler system to assure healthy green survival of the sod without water waste.
- The contractor shall comply with all warranties and guarantees set forth by the Owner, and in no case shall that period be less than one year following the date of completion and final acceptance.



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ANDERSON WAHLEN & ASSOCIATES  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 521-8525 - andersonwahlen.com

Landscape Plan

Fiiz Drinks

30 North 400 East Street  
Santaquin City, Utah

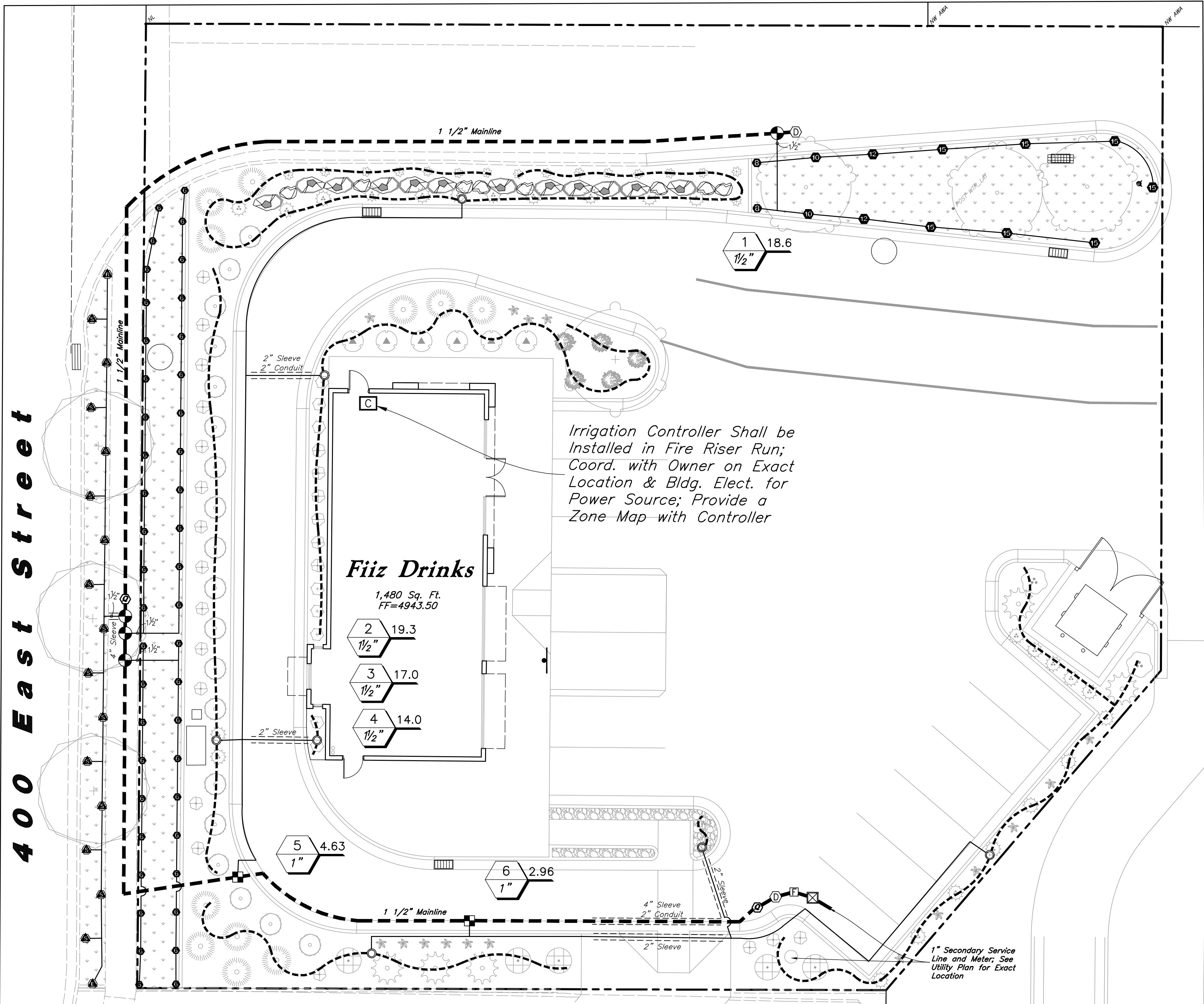


14 May, 2021

SHEET NO.

L1.1

400 East Street



General Irrigation Notes:

- Prior to construction, the contractor shall be responsible for locating all underground utilities and shall avoid damage to all utilities during the course of the work. It shall be the responsibility of the contractor to protect all utility lines during the construction period, and repair any and all damage to utilities, structures, site appurtenances, etc. which occurs as a result of the landscape construction.
- The irrigation contractor shall examine the site conditions under which the work is to be performed and notify the general contractor in writing of unsatisfactory conditions. Do not proceed until conditions have been corrected.
- The contractor shall provide all materials, labor and equipment required for the proper completion of all irrigation work as specified and shown on the drawings.
- See civil and architectural drawings for all structures, hardscape, grading, and drainage information.
- Contractor safety and cleanup must meet OSHA standards at all times. All contractors must have adequate liability, personnel injury and property damage insurance. Clean-up must be performed daily, and all hardscape areas must be washed free of dirt and mud on final cleanup. Construction must occur in a timely manner.
- The Owner/Landscape Architect has the right to reject any and all irrigation material not conforming to the plans and specifications.
- The contractor shall install all irrigation material per plan, notes and details.
- Irrigation system components must be premium quality only and installed to manufactures requirements and specifications. The contractor is responsible for checking state and local laws for all specified materials and workmanship. Substitutions must be approved by landscape architect. Provide owner and maintenance personnel with instruction manual and all products data to operate, check, winterize, repair, and adjust system.
- Irrigation system guarantee for all materials and workmanship shall be one year from the time of final project acceptance. Guarantee will include, but is not limited to winterizing, spring activation, repair, trench setting, backfilling depressions, and repairing freeze damage.
- All irrigation system check must be done before the system is backfilled. Irrigation mainline and each control valve section must be flushed and pressure checked. Assure the complete system has no documented problems and full head to head coverage with adequate pressure for system operation. Adjust system to avoid spray on building, hardscape, and adjacent property. Any problems or plan discrepancies must be reported to the landscape architect.
- Irrigation laterals must be schedule 40 P.V.C. with schedule 40 fittings, one (1) inch minimum size. Solvent weld all joints as per manufactures specifications for measured static p.s.i. Teflon tape all threaded fittings. The minimum depth of lateral lines shall be twelve (12) inches. Adapt system to manual compression air blowout.
- Irrigation mainline that are 2" and smaller mainlines shall be schedule 40 PVC pipe with schedule 80 fittings. Solvent weld all joints as per manufactures specifications for measured static pressure. Use teflon tape on all threaded joints. Line depth must be twenty-four (24) inches minimum.
- Install dielectric fittings whenever dissimilar metals are joined.
- Design locations are approximate. Make minor adjustments necessary to avoid plantings and obstructions such as signs and light standards. Maintain 100(%) percent irrigation coverage of areas indicated.
- Controller valves to be grouped together wherever possible. Install valve boxes with long side perpendicular to walk, curb, lawn, building or landscape features. Valve boxes to conform with finish grades.
- Control valve wire shall be #14 single conductor: white for common wire, red for hot wire and blue for the spare wire. Provide (2) two spare wire that runs the length of the mainline and to the controller. All wiring shall be UF-UL rated. All connections shall be made with water tight connectors (DBR/Y or equivalent) and contained in control valve boxes. Provide 36" extra wire length at each remote control valve in valve box. Install control wiring with main service line where possible. Provide slack in control wires at all changes in direction.
- Control valve size, type, quantity, and location to be approved by landscape architect. install in heavy duty plastic vandal proof box. Size boxes according to valve type and size for ease of maintenance and repair. Install one (1) cubic feet of pea gravel for sump in base of boxes. Boxes to be Carson Brooks or equal.
- Quick couplers shall be a Rain Bird 44-NP (Non-Potable Cover) with a 1 inch Lasco swing joint assembly. Support with rebar in each retainer lug. Install where shown on the plans.
- Irrigation system backfill must occur only after system check is completed as specified. Use only rock free clean fill around pipes, valves, drains, or any irrigation system components. Water settle all trenches and excavations.
- All irrigation pipe running through walls, under sidewalk, asphalt, or other hard surface shall be sleeved prior to paving. It is the irrigation contractors responsibility to coordinate sleeving with concrete and pavement contractors. Sleeves will be schedule 40 P.V.C. The depth for mainline sleeves shall be twenty-eight (28) inches minimum. Depth for lateral sleeves shall be sixteen (16) inches minimum.

- minimum. Sleeves shall be a minimum of two sizes larger than the pipe to be sleeved. All valve wiring shall be contained in separate sleeving.
- Plans are diagrammatic and approximate due to scale, where possible, all piping is to be installed within the planting areas. No tees, els, or changes in direction shall occur under hardscape.
  - It is the contractors responsibility to verify all quantities based upon the plan prior to completion of a construction cost estimate.
  - The irrigation contractor shall flush and adjust all sprinkler heads for optimum performance and to prevent possible overspray onto walks, roadways, and/or buildings as much as possible. This shall include selecting the best degree of arc to fit the site and to throttle the flow control of each valve to obtain the optimum operating pressure for each system. All mainlines shall be flushed prior to the installation of irrigation heads.
  - All sprinkler heads shall be set perpendicular to finish grade of the areas to be irrigated and shall be installed 6"-8" from buildings walls, or within 4" of pavement, curbs, or header edges.
  - Drip system piping shall consist of a rigid schedule 40 PVC pipe distribution system connecting drip irrigated planter areas. Poly tubing or drip line shall be run off the rigid PVC in each planting area or island with a PVC to poly tubing adapter. No poly tubing shall run under pavement.
  - Electrical power source at the controller location shall be provided by electrical contractor. Contractor shall verify location of controller prior to installation with owner.
  - Provide and install all manufacturer's recommended surge and lightning protection equipment on all controllers.
  - All lines shall slope to manual drains (see details). If field conditions necessitate additional drains, these drains shall be installed for complete drainage of the entire system. Provide a gravel sump under each drain. All drains shall be a minimum of 6" below grade.
  - Upon completion and approval of irrigation system, irrigation contractor to provide the owner with two sets of drawings indicating actual location of piping, valves, sprinkler heads, wiring, and zones.
  - An irrigation zone map shall be provided in a protective jacket and be kept with the main irrigation controller. The map shall show all approved irrigation and include all zone valve locations.
  - It shall be the responsibility of the sprinkler contractor to demonstrate to the Owner the proper winterization and start-up procedures for the entire system prior to final payment.

VALVE SCHEDULE

VALVE STATION	VALVE SIZE	IRRIGATION TYPE	FLOW (GPM)	PSI	PSI @ POC	PRECIP. RATE
1	1-1/2"	Turf Spray	18.61	34.55	37.59	1.74 in/h
2	1-1/2"	Turf Spray	19.25	34.52	35.83	3.45 in/h
3	1-1/2"	Turf Spray	16.97	34.55	35.57	3.45 in/h
4	1-1/2"	Turf Spray	13.98	34.22	34.9	3.4 in/h
5	1"	Area for Drip Emitters	4.63	34.0	34.04	1.04 in/h
6	1"	Area for Drip Emitters	2.96	32.08	32.08	0.82 in/h

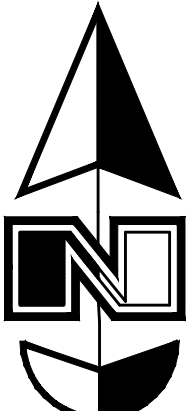
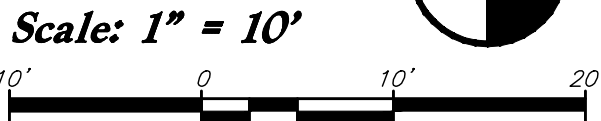


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Main Service Line & Other Irrigation Components Are Shown In Paved Or Hardscape Surfaced For Clarity Purposes ONLY! Install All Irrigation Components within Landscaped Areas.

Irrigation Notes

- See Sheet L1.1 for Plant Layout and Sheet L3.1 for Planting and Irrigation Details.
- The City Reported a Static Pressure Range of 80-90 psi in the Area. Static Pressure of 80 psi. was Used. Irrigation System was Designed for a Minimum of 38 psi.



IRRIGATION SCHEDULE

Symbol	Manufacturer/Model #	Description	Notes	Detail
<b>Sprayheads</b>				
	Rain Bird 1804	4" Pop-Up Sprayhead with 15' Strip Nozzle	Adjust Radius Reduction Screws as Needed to Achieve Appropriate Radii Coverages	13/L3.1
	Rain Bird 1804	4" Pop-Up Sprayhead with 15' Strip Nozzle	Adjust Radius Reduction Screws as Needed to Achieve Appropriate Radii Coverages	13/L3.1
<b>Valves</b>				
	Rain Bird 150-PESB	Lawn Remote Control Valve with Scrubber Technology	1 Inch Size; Install in Standard Valve Box with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	14/L3.1
	Rain Bird XCZ-100-PRB-COM	Drip Remote Control Valve Kit	1 Inch Size; Install in Standard Valve Box with 3" Depth of Gravel over Weed Barrier; Install with Water Proof Wire Connectors	6/L3.1
	Rain Bird 44-NP	Quick Coupler with Non-Potable Cover and Swing Joint	1 Inch Size; Install in 10" Round Valve Box with 3" Depth of Gravel over Weed Barrier	7/L3.1
	Matco-Norca 759	Manual Drain Ball Valve	1/2 Inch Size; Install at End of the Mainline in a 10" Round Valve Box with Weed Barrier and a Gravel Sump	10/L3.1
<b>Drip</b>				
	PVC Pipe To Drip Tubing	Provide Connection Fittings	Install 1" Feeder Line To All Drip Areas	11/L3.1
	Rain Bird XBS-075	3/4" Distribution Tubing - Pipe shown on Plan is Schematic; Adjust as Needed		
	Rain Bird XQ-100	1/4" Distribution Tubing - Install one per Emitter		
	Rain Bird XB-20PC	Xeri-Bug Emitter (2 Gal/Hr.) - 1 per Perennial/Ornamental Grass, 2 per Shrub, & 4 per Tree		5&9/L3.1
	Rain Bird TS025	Tie Down Stake - Tubing to be Staked every 3'		
	Rain Bird DBC-025	Diffuser Bug Cap - Install one per Emitter		
	Rain Bird MDCFAP	Removable Flush Cap - Install at the End of Each Line		
<b>P.O.C. Components</b>				
	Mueller Oriseal Mark II	Stop and Waste Valve	1 1/2 Inch Size; Install in 10" Round Valve Box with Weed Barrier and Gravel Sump	16/L3.1
	Amiad Tagline Canister Filter	Secondary Water Filter	1 1/2 Inch Size; Filter with 155 Mesh; Install in Regular Size Box with Weed Barrier and 3" Depth of Clean Gravel; Filter Shall be Installed Underground	15/L3.1
<b>Pipes</b>				
	Schedule 40 PVC	Mainline Pipe	1 1/2 Inch Size; See Plan for Locations; Schedule 40 Fittings Shall be Used for Mainline Components	8/L3.1
	Schedule 40 PVC	Lateral Line Pipe	See Plan for Pipe Sizes; Pipes Unmarked Shall be 1 Inch; Minimum Pipe Size Shall be 1 Inch for PVC Pipe	8/L3.1
<b>Controller &amp; Accessories</b>				
	Rain Bird ESPAMEI	4 Base Station Indoor Controller	See Plan for Location of Controller; Coordinate Power Supply With Building Electrical Contractor	12/L3.1
	Rain Bird ESPSM3	3 Station Expansion Module		
<b>Sleeving</b>				
	Schedule 40 PVC	Provide for Irr. Mainlines, Laterals, and Controller Wire Located Under Concrete and Asphalt Paving at Specified Depths	Contractor Shall Coordinate the Installation of Sleeving with the Installation of Concrete Footwork and Asphalt Paving; All Sleeving Shall be by the Landscape Contractor Unless Otherwise Noted	17/L3.1
<b>Valve Callout</b>				
		Valve Number		
		Valve Flow		
		Valve Size		

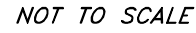
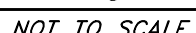
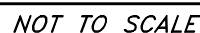
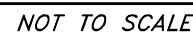
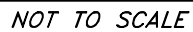
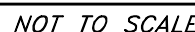
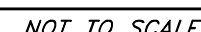
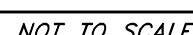
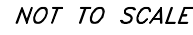
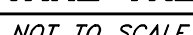
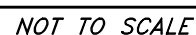
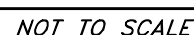
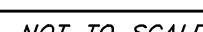
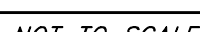
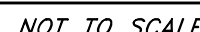
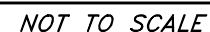
ANDERSON WAHLEN & ASSOCIATES  
2010 North Redwood Road, Salt Lake City, Utah 84116  
(801) 521-8525 - [awengineering.net](mailto:awengineering.net)

Irrigation Plan  
**Fiiz Drinks**  
30 North 400 East Street  
Saratoga City, Utah

State of Utah  
Jared R. Manscill  
No. 7740428-5301  
05/14/2021  
Landscape Architect

14 May, 2021

SHEET NO.  
**L2.1**

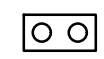




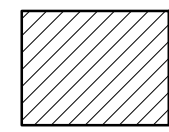
ROOF LEGEND

**NOTE:**

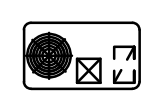
1. CONTRACTOR RESPONSIBLE TO PATCH, REPAIR, SEAL AND FLASH ALL ROOF PENETRATIONS, INCLUDING BUT NOT LIMITED TO ELECTRICAL, PLUMBING, MECHANICAL, REFRIGERATION STRUCTURAL AND SIGNAGE PENETRATIONS.
2. ALL ROOF TOP EQUIPMENT TO BE A MINIMUM OF 10'-0" FROM ANY ROOF EDGE.
3. REFER TO DETAILS 7, 14, 15 AND 16 ON SHEET A0.2 FOR TYPICAL FLASHING DETAILS.
4. MAINTAIN 1/4" PER FOOT MINIMUM SLOPE AT FLEXIBLE MEMBRANE ROOF.



RD/ORD: ROOF DRAIN AND  
SECONDARY ROOF DRAIN. RE:  
13/A0.2



CRICKET OF TAPERED RIGID INSULATION CONSTRUCT W/ MIN. POSITIVE SLOPE OF 1/2" PER FT. AND TO DIMENSIONS INDICATED, AT SMALLER CRICKETS WHERE DIMENSIONS ARE NOT INDICATED MAKE WIDTH EQUAL TO LENGTH. PROVIDE ON UPSIDE SLOPE OF ALL EQUIPMENT CURBS.



RTU: ROOF TOP UNIT, SEE DETAILS 16/A0.2 FOR SITE BUILT PLATFORMS. REFER TO MECHANICAL DRAWINGS FOR PREFABRICATED CURBS. PROVIDE STEEL FRAME @ OPENINGS AND UNDER CURBS, SEE STRUCTURAL DRAWINGS.



FLUE PENETRATION SEE DET. 15/A0.2



EF: EXHAUST FAN SEE DET. 16/A0.2.  
PROVIDE CURB FOR EQUIPMENT AT ALL  
EXHAUST FAN LOCATIONS.



30" X 36" ROOF HATCH. BILCO OR  
APPROVED EQUAL

## SCOPE OF WORK NOTES

- |    |   |
|----|---|
| 1. | ALL GYP. IS TYPE "X" U.N.O.   |
| 2. | PROVIDE ACoustICAL JOINT SEALANTS AT WALL TO WALL INTERSECTIONS, WALL TO FLOOR INTERSECTIONS AND ALL PENETRATIONS IN WALL TYPES SHOW WITH ACoustICAL BATT INSULATION.   |
| 3. | PROVIDE SEPARATION BARRIER BETWEEN ALL DISSIMILAR METALS, TYP.  |
| 4. | REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIAL SPECIFICATIONS. REFER TO INTERIOR ELEVATIONS AND INTERIOR FINISH SCHEDULE FOR INTERIOR FINISH MATERIAL SPECIFICATIONS.  |
| 5. | PROVIDE METAL SLO DEFLECTION TRACK AT ALL NON-LOAD BEARING WALLS THAT EXTEND TO B.O. OF ROOF STRUCTURE OR ROOF DECK. RE. STRUCTURAL AND 6/A.7.2.  |
| 6. | REFER 4" CONCRETE SLAB OVER 4" GRANULAR DRAINAGE FILL OVER 10 MIL VAPOR BARRIER. RE. STRUCTURAL. REFER TO FLOOR PLAN FOR AREAS WHERE NO CONCRETE OCCURS. PROVIDE GRANULAR FILL AND 10 MIL VAPOR BARRIER IN THESE LOCATIONS. |
| 7. | PROVIDE CONCRETE CONTROL JOINTS PER THE SPECS.  |

## KEYED NOTES

- ① LINE OF CANOPY ABOVE
- ② LINE OF SOFFIT ABOVE
- ③ ROOF ACCESS LADDER, RE: 8/A0.2
- ④ ROOF DRAIN AND OVERFLOW ROOF DRAIN PIPES, RE: PLUMBING
- ⑤ DOWNSPOUT NOZZLE, RE: PLUMBING AND EXTERIOR ELEVATIONS
- ⑥ GAS METER, RE: PLUMBING AND CIVIL
- ⑦ ELECTRICAL PANEL, RE: ELECTRICAL
- ⑧ ELECTRICAL TRANSFORMER PAD, RE: 2/A0.3 AND ELECTRICAL
- ⑨ ELECTRICAL EQUIPMENT, RE: ELECTRICAL
- ⑩ FIRE RISER, RE: SPECS.
- ⑪ FIRE DEPARTMENT CONNECTION
- ⑫ 6" CONCRETE WALK, RE: CIVIL
- ⑬ NO CONCRETE SLAB IN THIS AREA
- ⑭ FUTURE DEMISING WALL, NIC
- ⑮ COLUMN, RE: STRUCTURAL
- ⑯ DUMPSTER ENCLOSURE, RE: 12/A5.1

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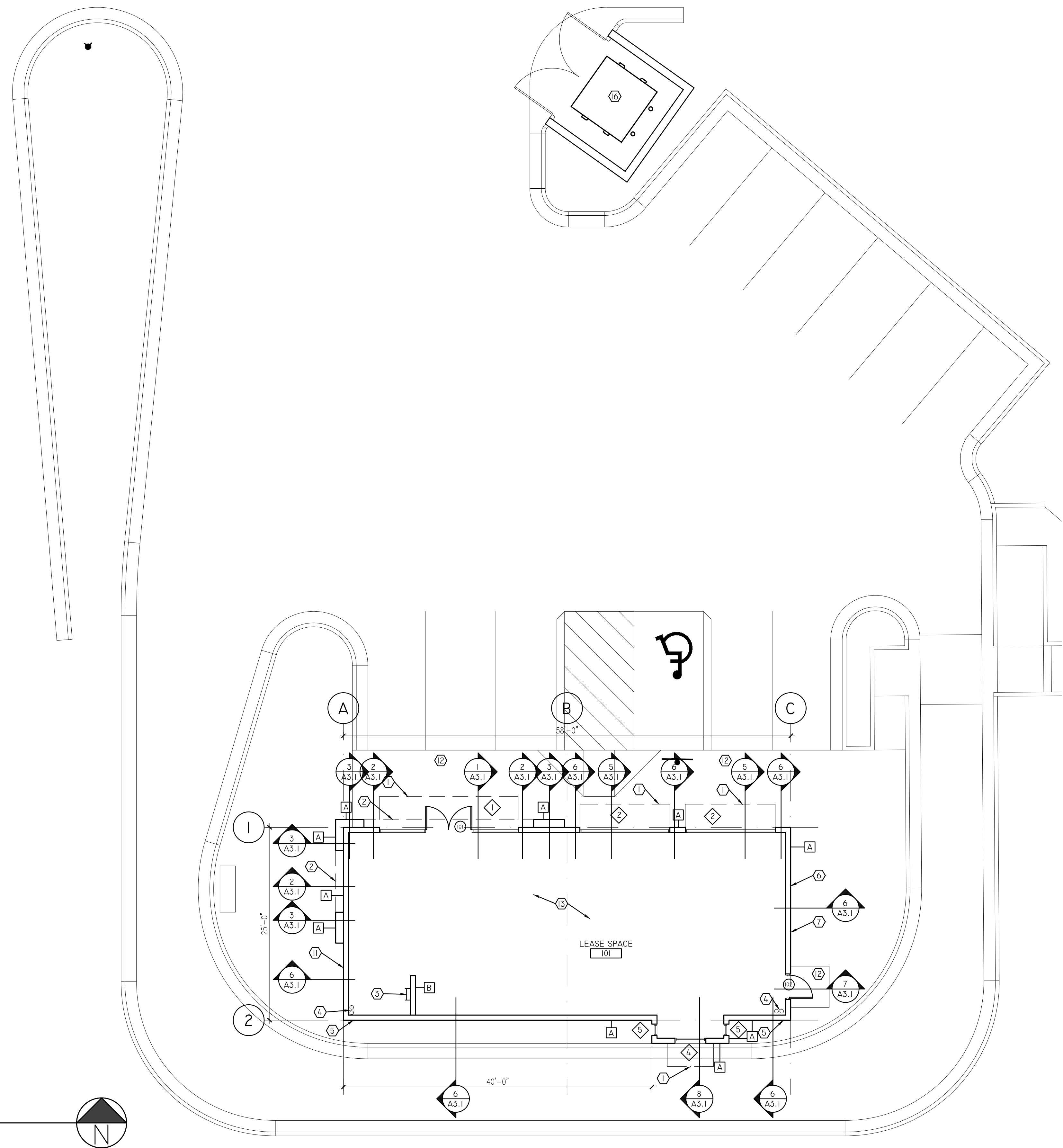
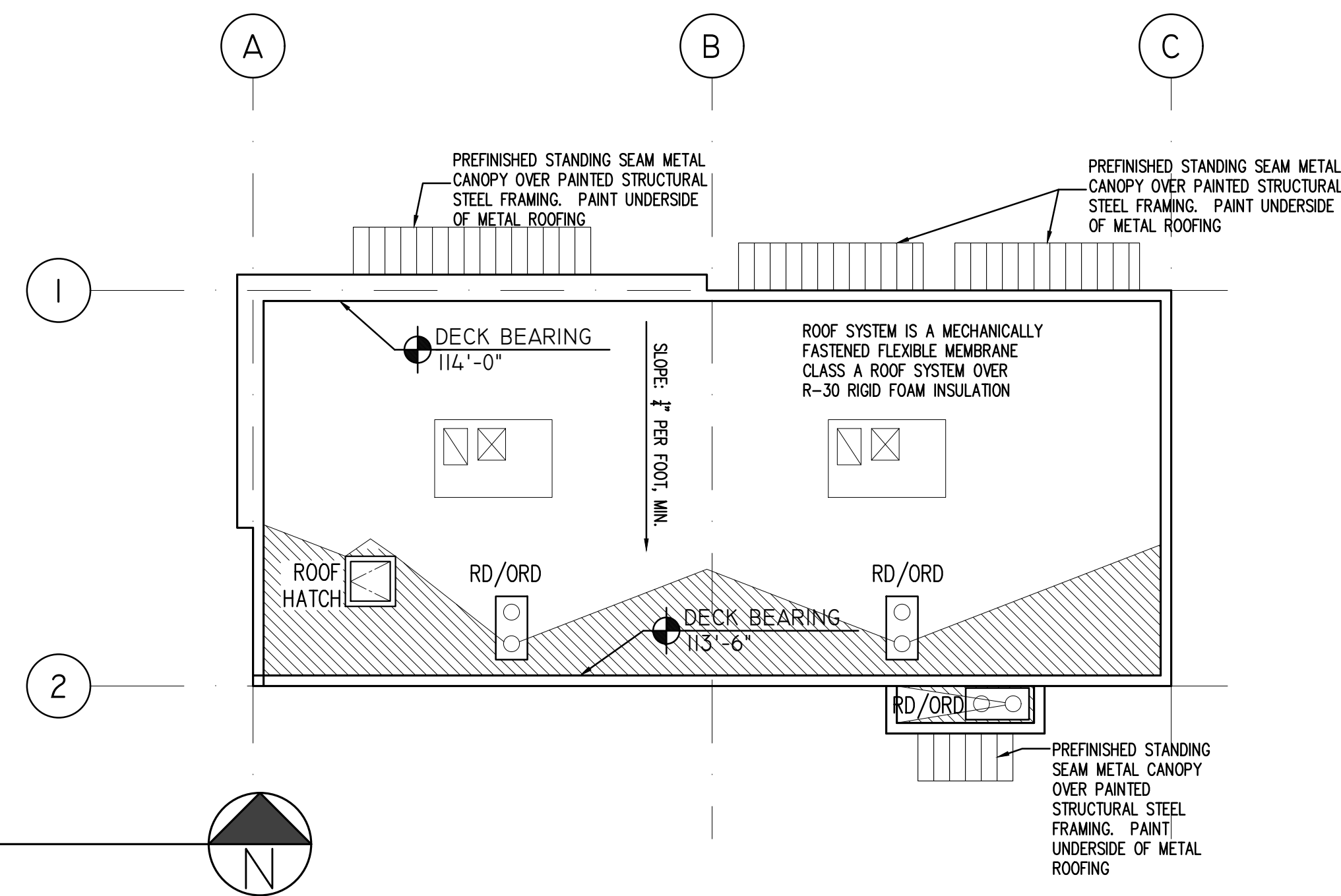
WALL TYPE SCHEDULE

NOTE: REFER TO A2.1 FOR EXTERIOR FINISH AND A6.1 FOR INTERIOR FINISH

- A** 6" WOOD STUDS @ 16" O.C. WITH  $\frac{3}{4}$ " EXTERIOR PLYWOOD SHEATHING, RE: STRUCTURAL. SEE EXTERIOR ELEVATIONS FOR EXTERIOR FINISH MATERIALS. PROVIDE FULL BATT INSULATION WITH VAPOR BARRIER.
- B** 6" WOOD STUDS @ 16" O.C. WITH 5/8" TYPE-X GYP. BOARD ON BOTH SIDES. EXTEND STUDS AND GYP. BOARD TO B.O. ROOF DECK ABOVE. PROVIDE FULL SOUND BATT INSULATION.

## ROOF PLAN

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



# FLOOR PLAN

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

[illegible]

DATE:	MAY 14, 2021
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	2010.01
CAD DWG FILE NO:	

DRAWN BY:	KV
DESIGNED BY:	KV
DWG TYPE:	
ARCHITECTURAL PHASE:	

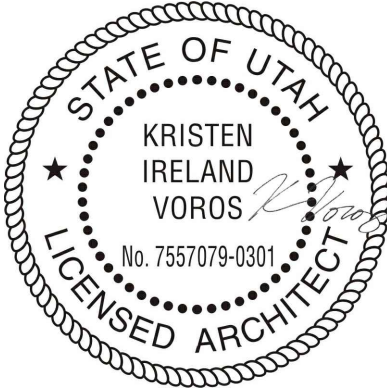
SHEET TITLE					
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FLOOR PLAN &  
ROOF PLAN

Al.l

MATERIAL SCHEDULE		
MARK	MATERIAL	FINISH/COLOR
②	THIN BRICK	INTERSTATE – MONTEREY
⑤A	EIFS	COLOR 1 – ACCESSIBLE BEIGE SW7036
⑤B	EIFS	COLOR 2 – TONY TAUPE SW7038
⑤C	EIFS	COLOR 3 – VAN DYKE BROWN SW7041
④	PRECAST CONCRETE SILL	NATURAL
⑤	ARCHITECTURAL FINISH CONCRETE FOUNDATION	NATURAL
⑥	PREFINISHED STRUCTURAL STANDING SEAM METAL ROOFING.	DARK BRONZE
⑦	PAINTED STEEL	MATCH DARK BRONZE, VERIFY COLOR
⑧	GLASS AND ALUMINUM STOREFRONT, RE: WINDOW AND DOOR SCHEDULE	DARK BRONZE STOREFRONT WITH CLEAR GLAZING
⑨	PREFINISHED METAL COPING	DARK BRONZE
⑩	PAINTED HM DOOR AND FRAME	MATCH DARK BRONZE, VERIFY COLOR
⑪	COWS TONGUE DOWNSPOUT NOZZLE, INSTALL AT 24" ABOVE FINISH GRADE, RE: PLUMBING	–
⑫	LIGHT FIXTURE, RE: ELECTRICAL	
⑬	SIGNAGE PROVIDED AND INSTALLED BY OWNER. G.C. TO PROVIDE ELECTRICAL CONNECTIONS, RE: ELECTRICAL. G.C. TO PROVIDE ANCHORAGE FOR SIGNAGE. G.C. TO PROVIDE CORE DRILLED HOLES THROUGH MASONRY FOR CONDUIT FROM J BOXES MOUNTED AT THE INTERIOR OF THE BUILDING. COORDINATE NUMBER AND LOCATION WITH SIGNAGE SUPPLIER.	
⑭	BOARD AND BATTEN CEMENT BOARD SIDING	HARDIE BOARD – TIMBER BARK
⑮	6" LAP CEMENT BOARD SIDING	HARDIE BOARD – TIMBER BARK

EXTERIOR ELEVATION NOTES:  
1. ALL EXPOSED STEEL TO BE PAINTED AS DESCRIBED IN SPEC.  
2. UNDERSIDE OF PREFINISHED METAL STANDING SEAM ROOFING TO BE PAINTED.  
3. PROVIDE MASONRY CONTROL JOINTS AS SHOWN, RE: 7/A5.2.  
4. PROVIDE COLORED MORTAR AT CMU AND BRICK.



RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE:	MAY 14, 2021
AGENCY PROJECT NO:	
DESIGN SEQUENCE PROJECT NO:	2010.01
CAD DWG FILE NO:	

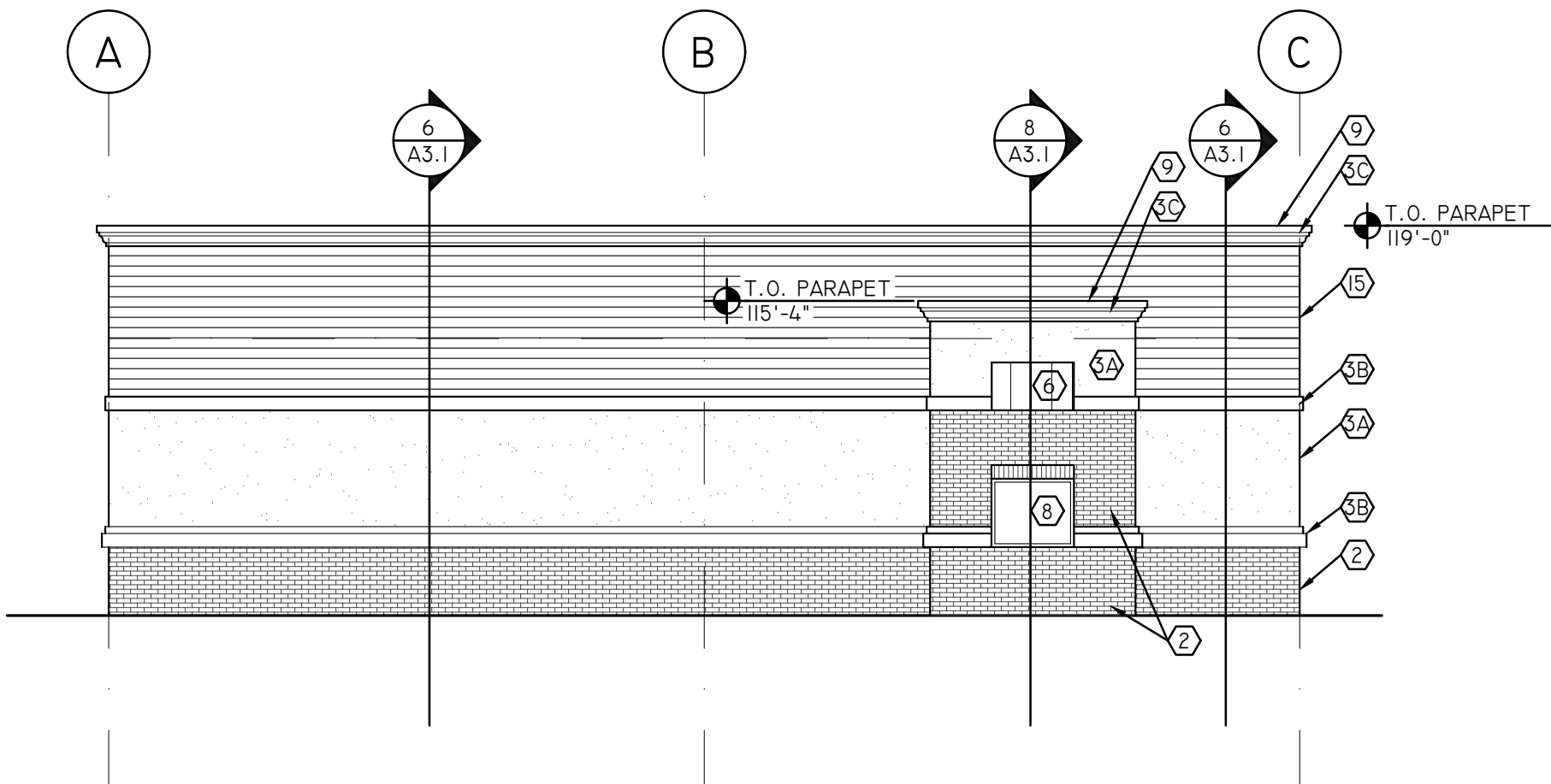
DRAWN BY:	KV
DESIGNED BY:	KV
DWG TYPE:	
ARCHITECTURAL PHASE:	

BID SET

SHEET TITLE

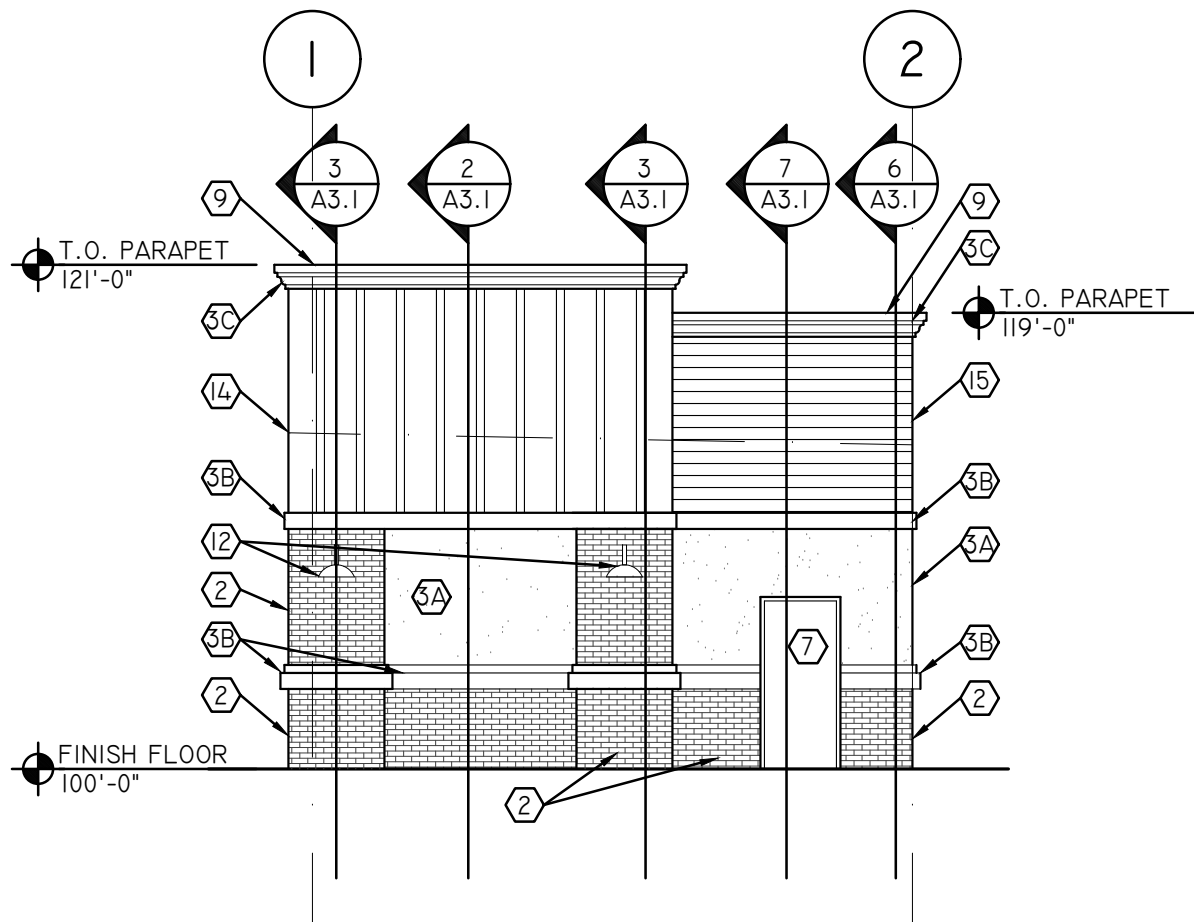
EXTERIOR  
ELEVATIONS

A2.1



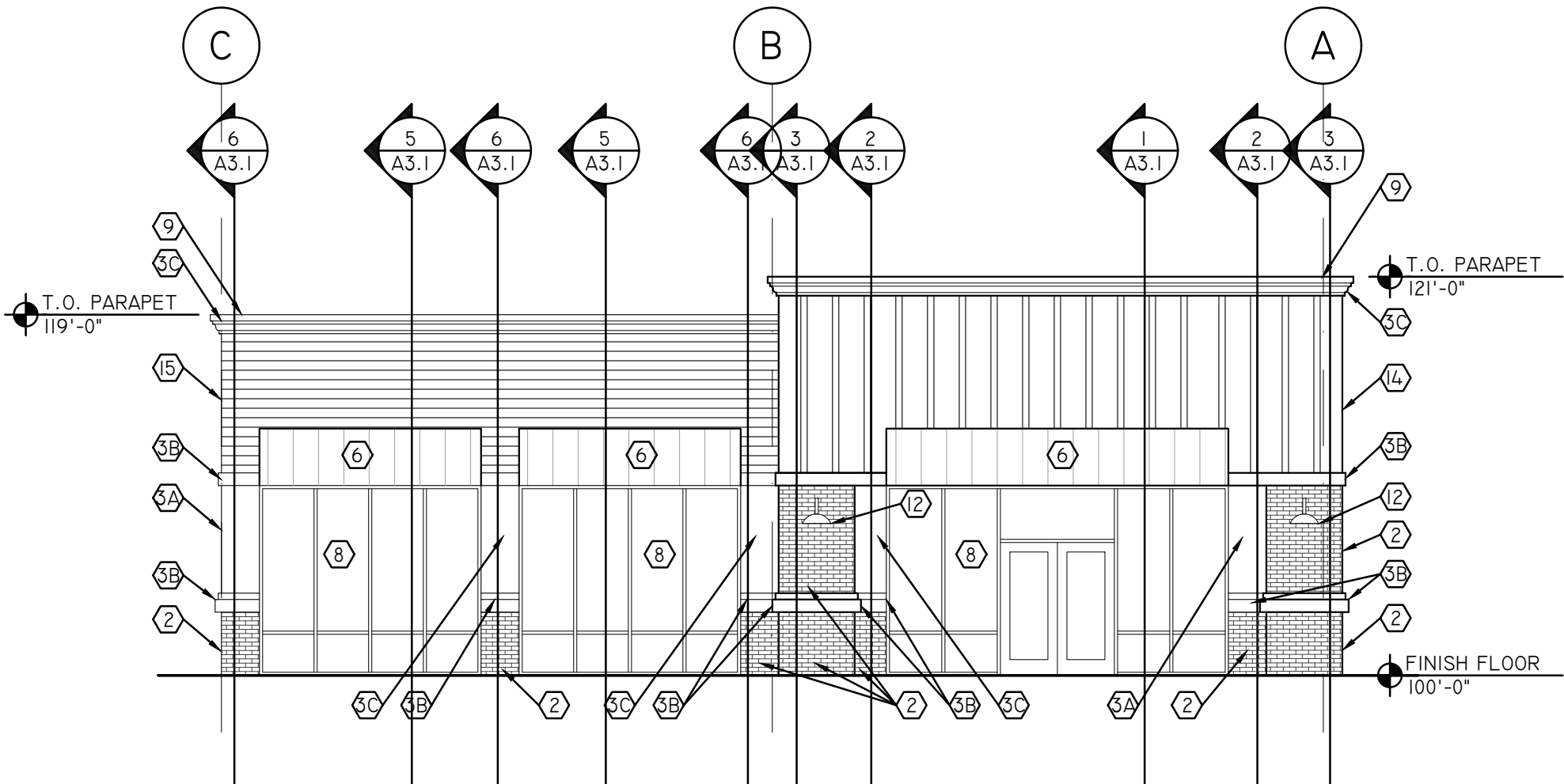
WEST ELEVATION

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



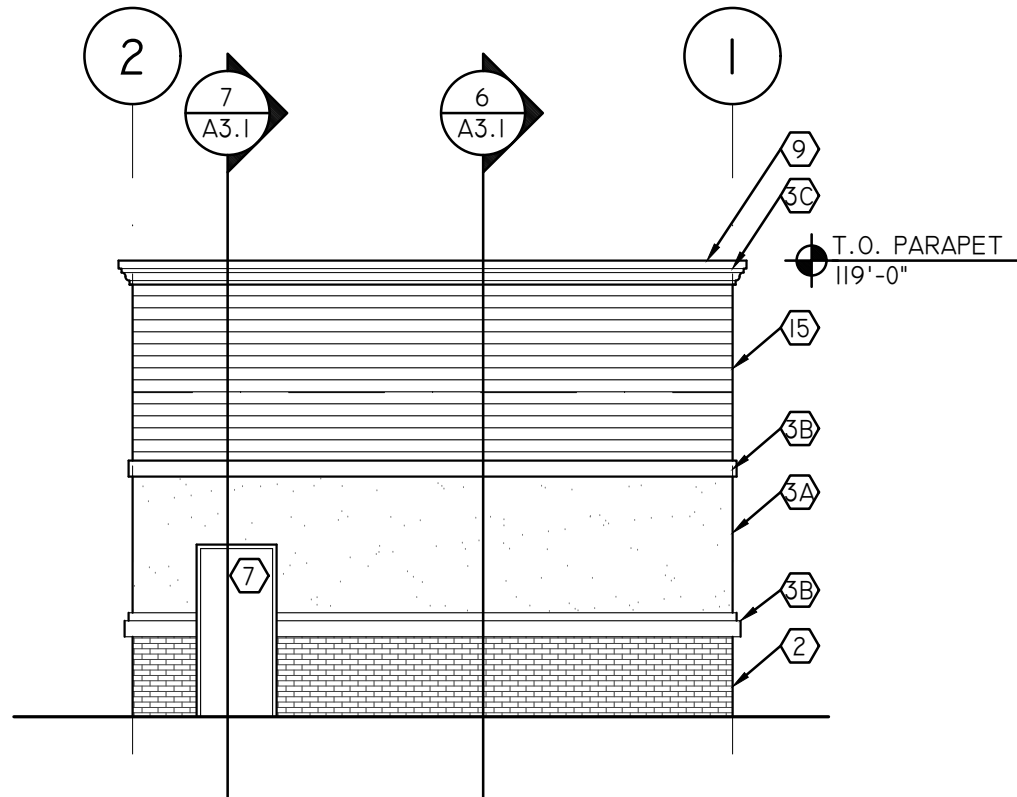
NORTH ELEVATION

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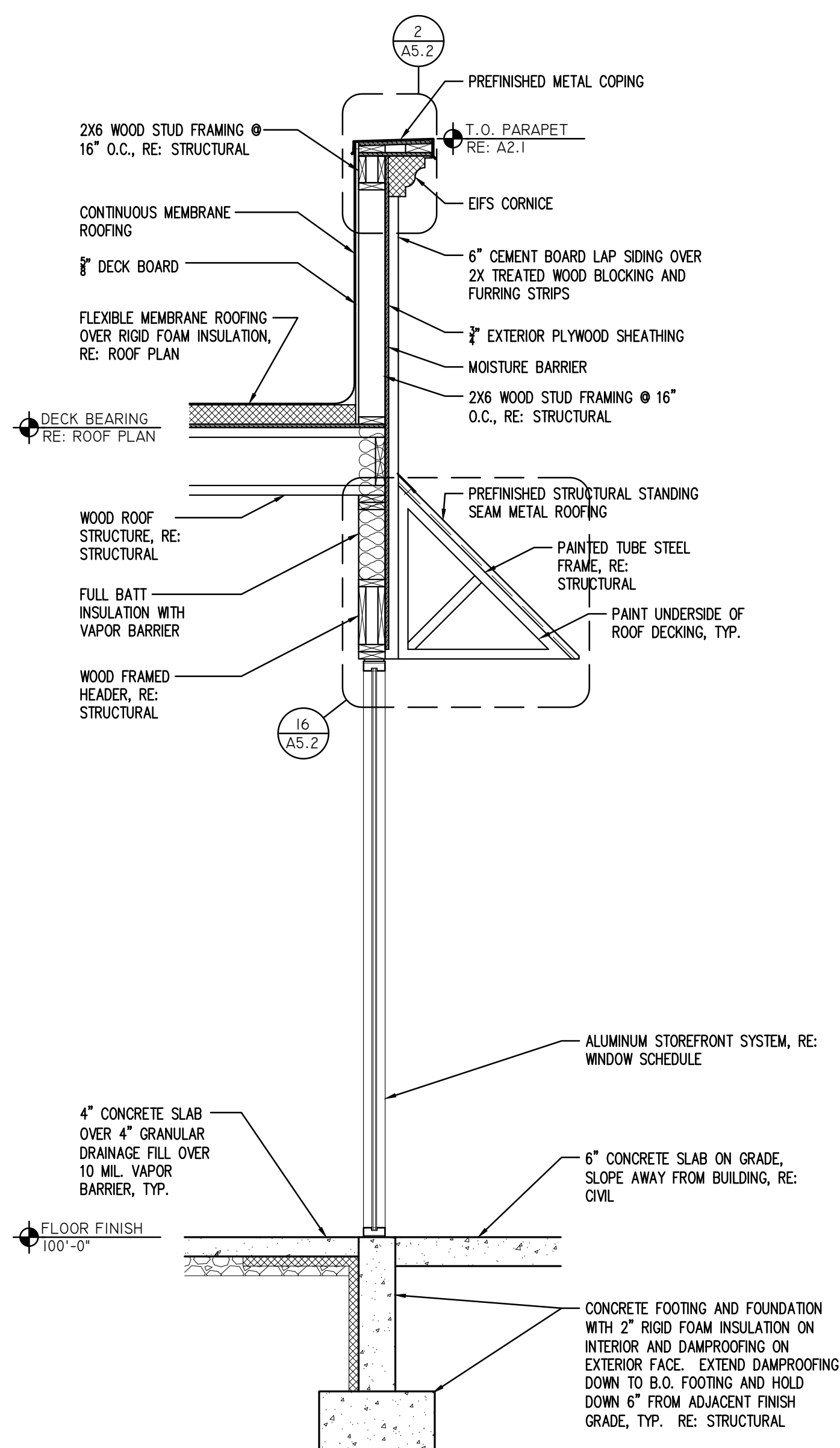
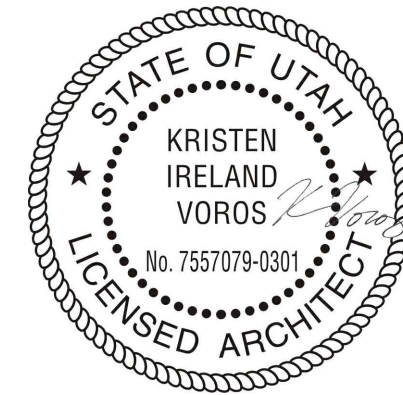
EAST ELEVATION

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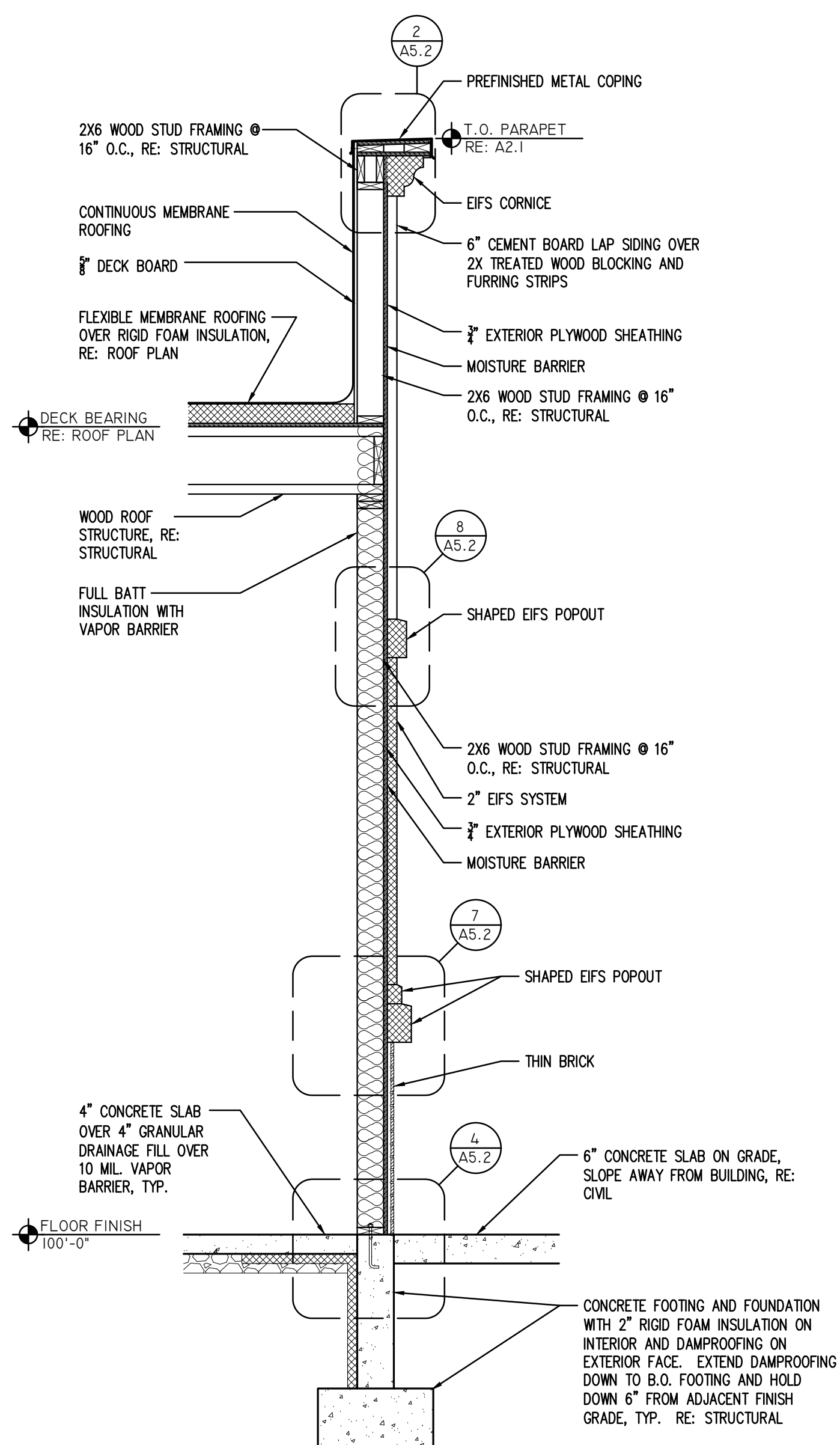


SOUTH ELEVATION

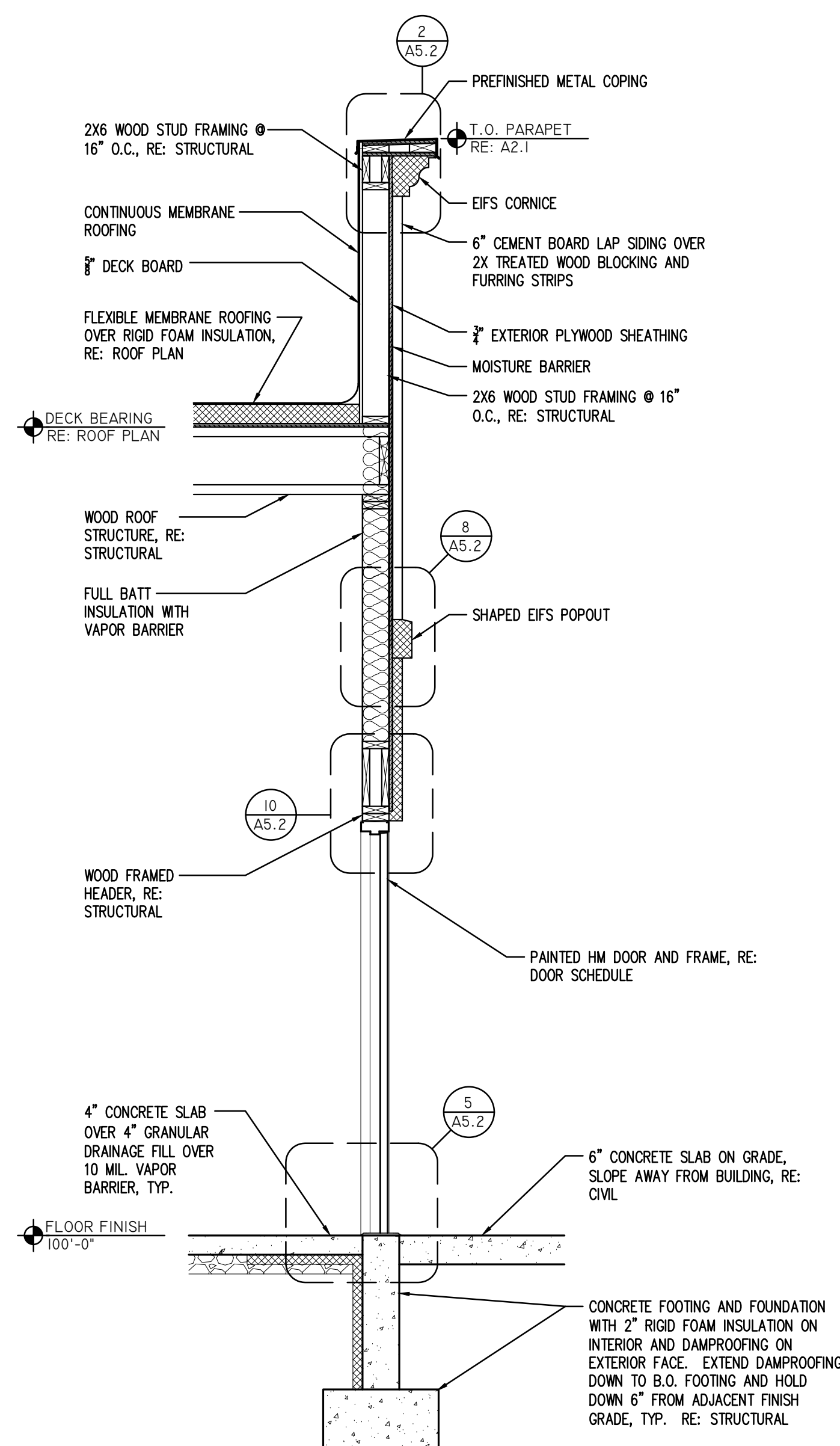
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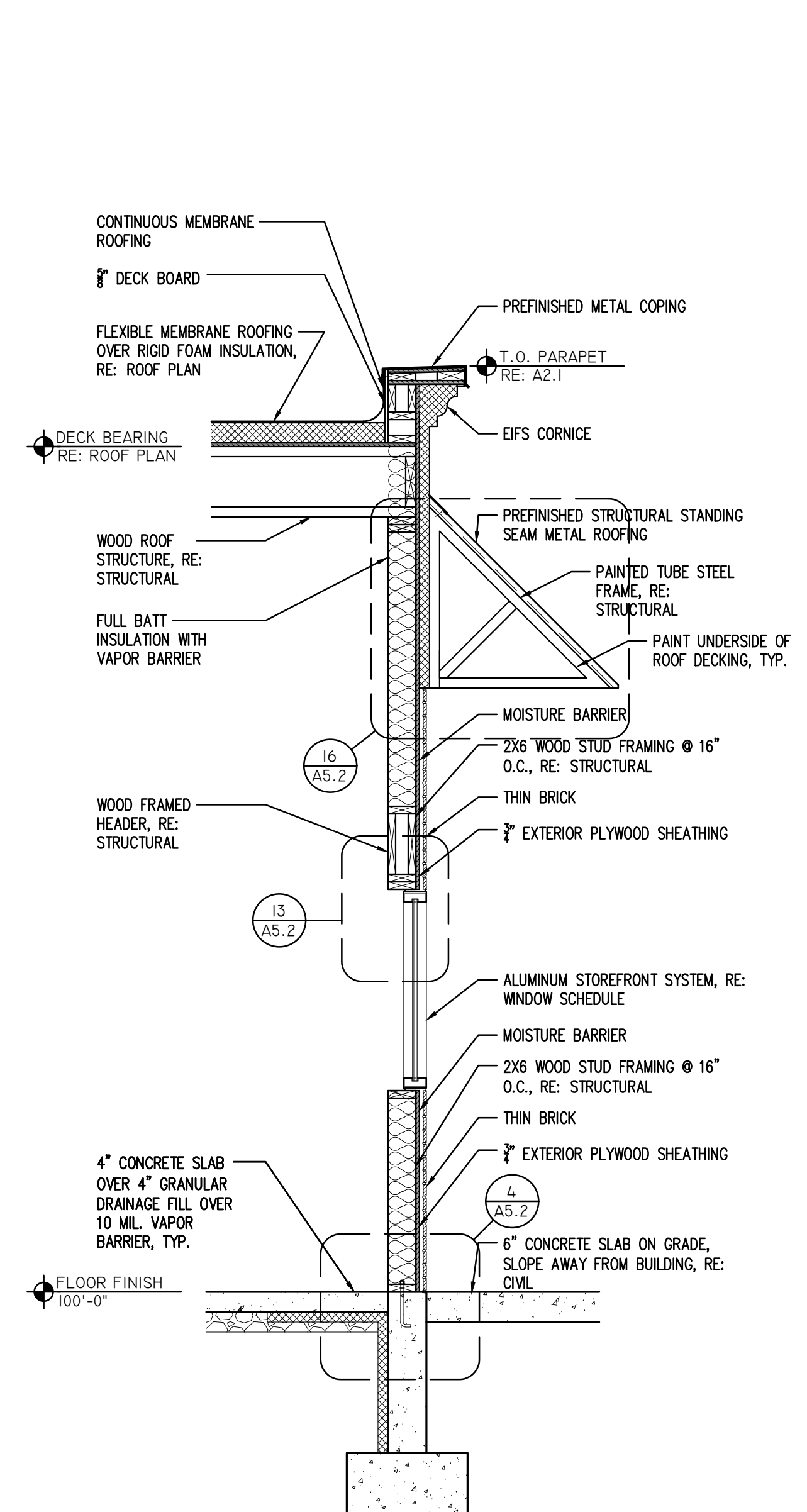
5 WALL SECTION  
SCALE: 1/2" = 1'-0"



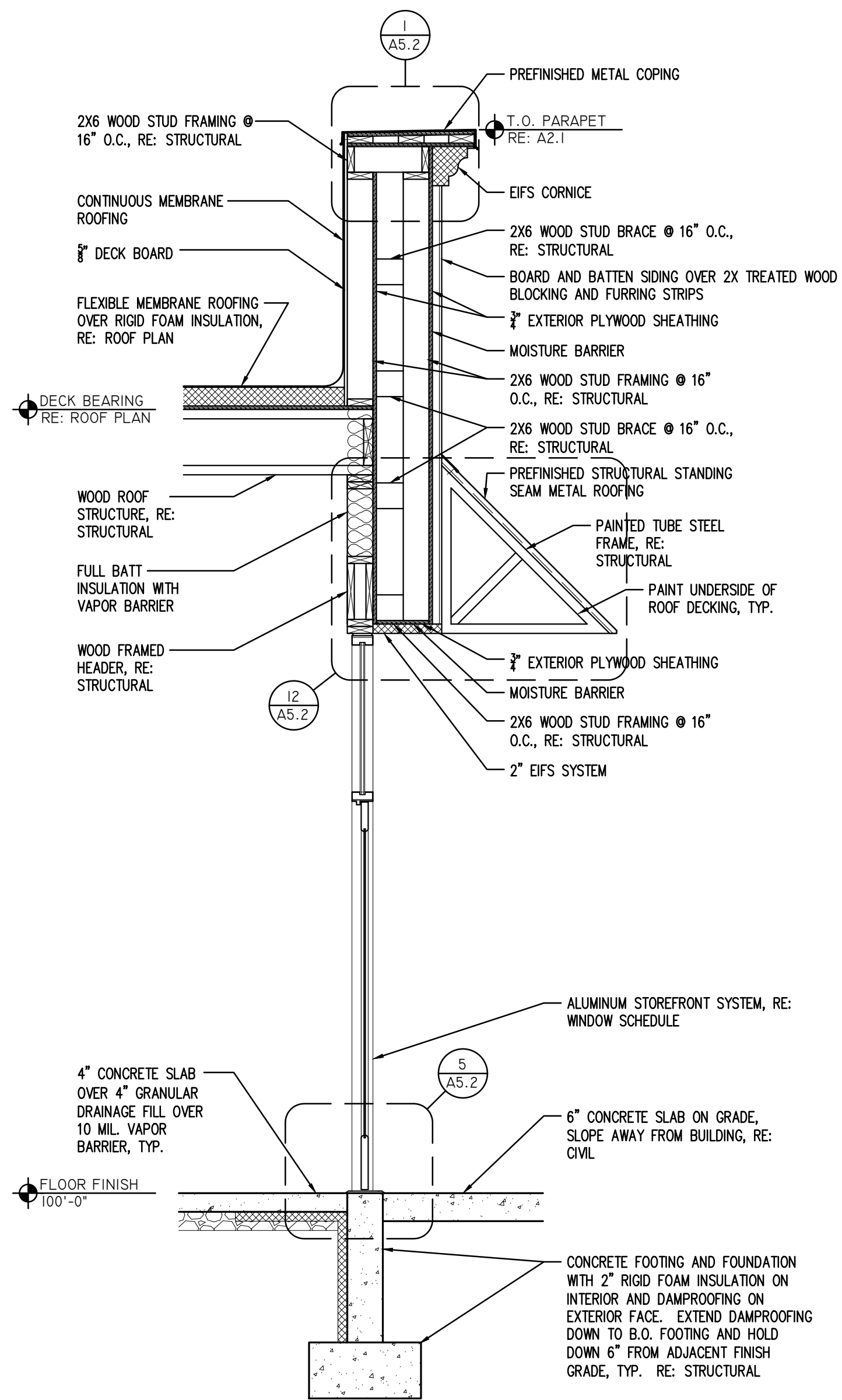
6 WALL SECTION  
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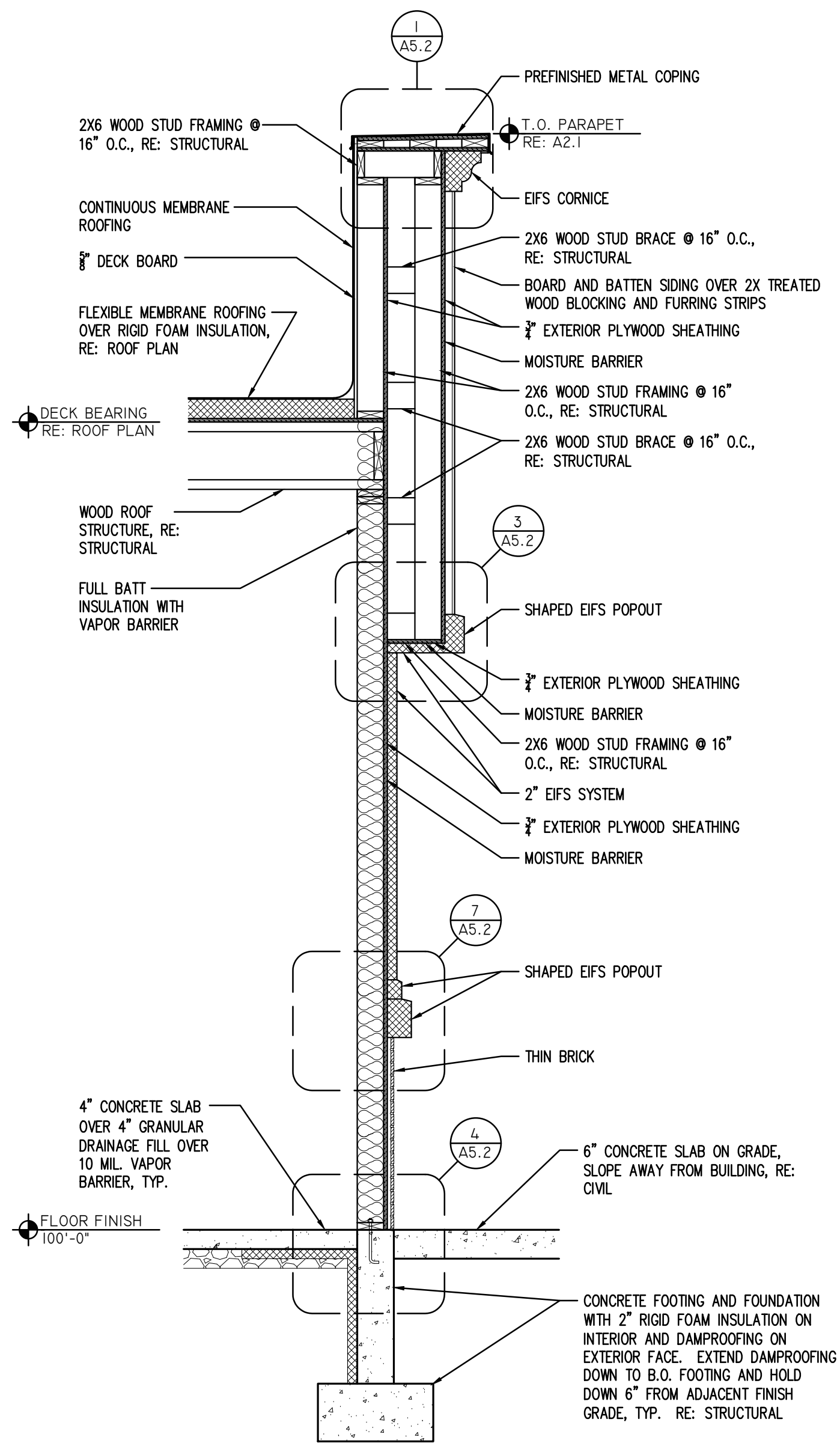
7 WALL SECTION  
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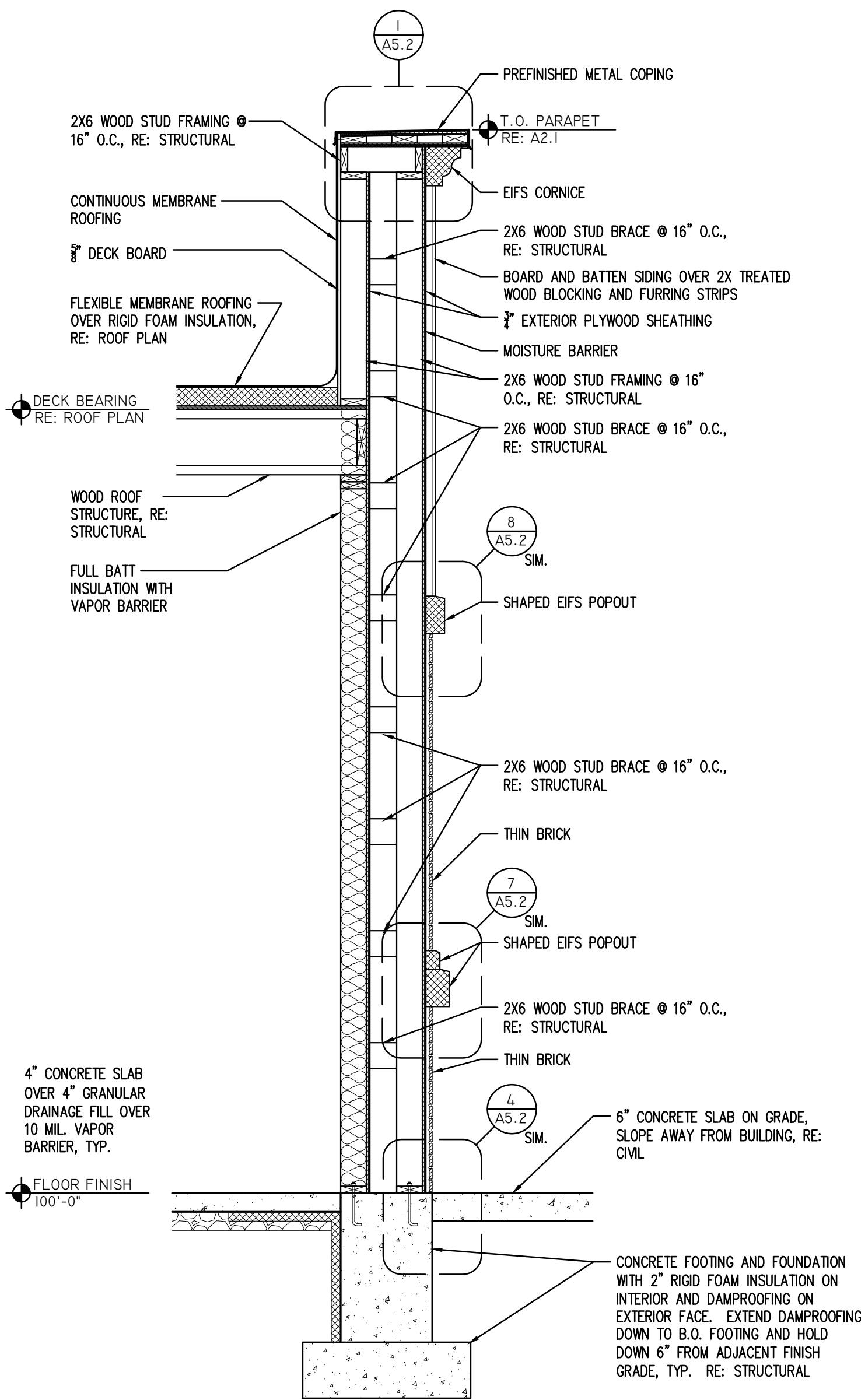
8 WALL SECTION  
SCALE: 1/2" = 1'-0"



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



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



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

RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: MAY 14, 2021  
AGENCY PROJECT NO:  
DESIGN SEQUENCE PROJECT NO: 2010.01  
CAD DWG FILE NO:

DRAWN BY: KV  
DESIGNED BY: KV  
DWG TYPE:  
ARCHITECTURAL PHASE:

BID SET

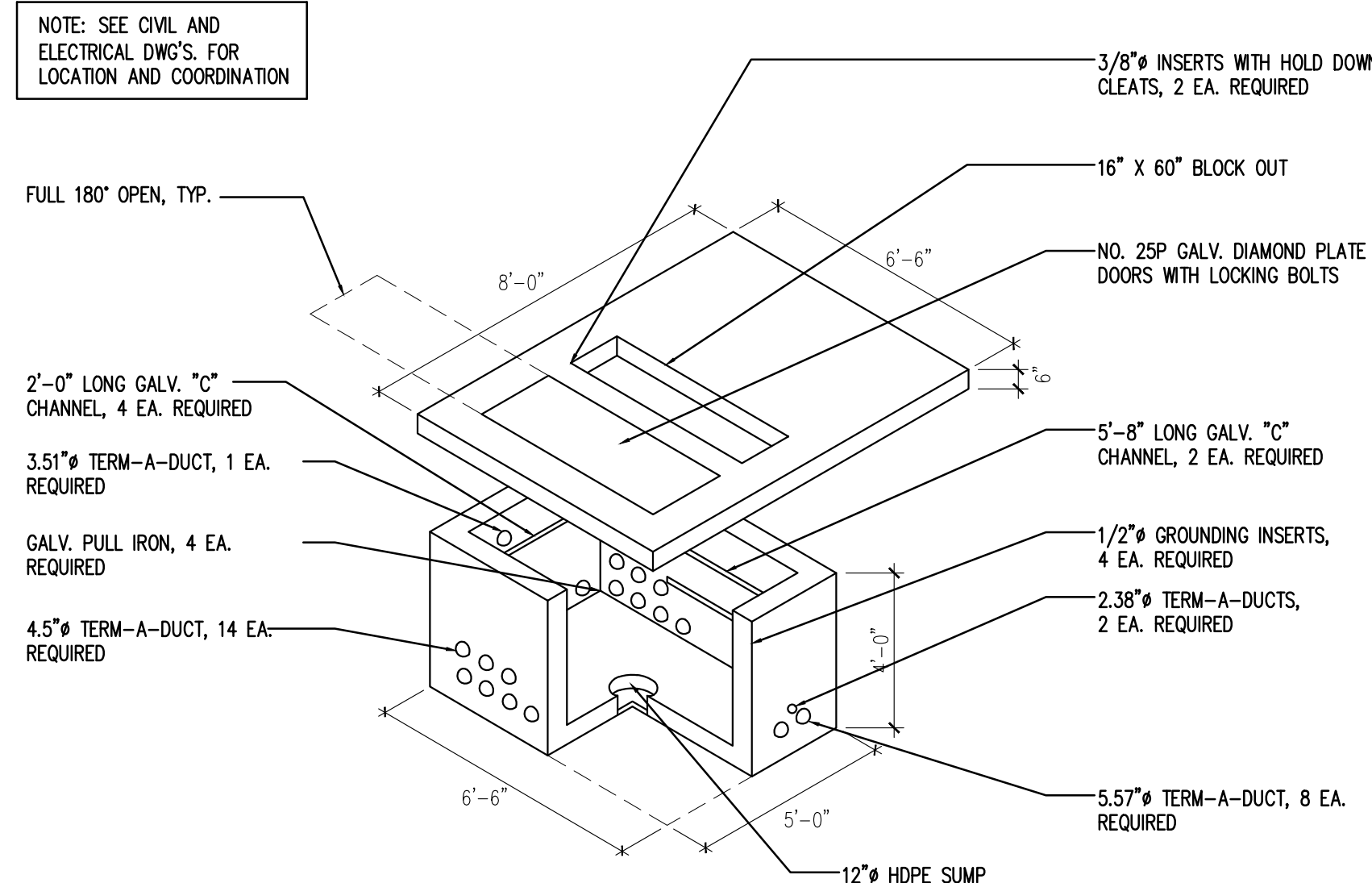
SHEET TITLE

WALL SECTIONS

A3.1

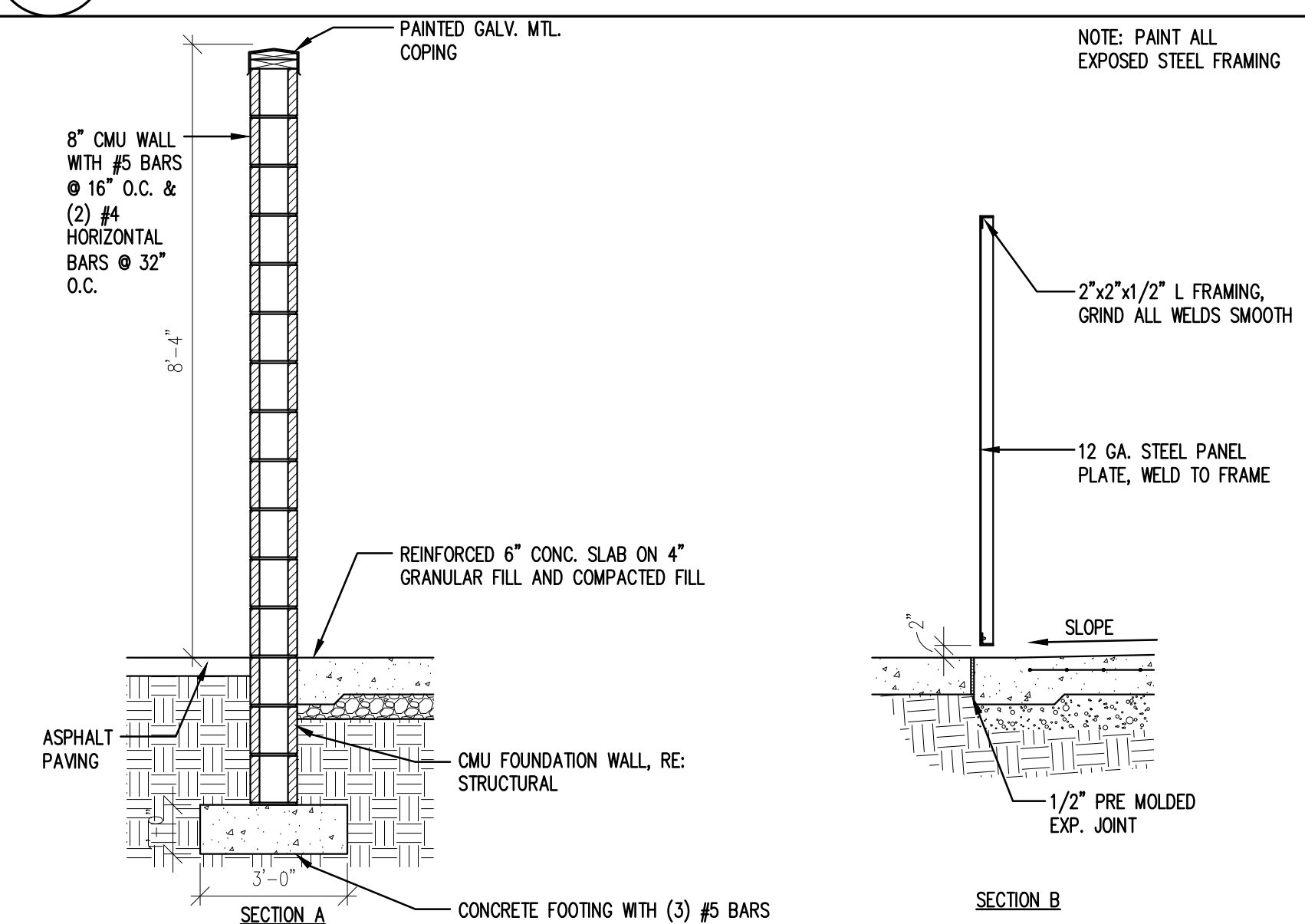


NOTE: SEE CIVIL AND ELECTRICAL DWGS. FOR LOCATION AND COORDINATION

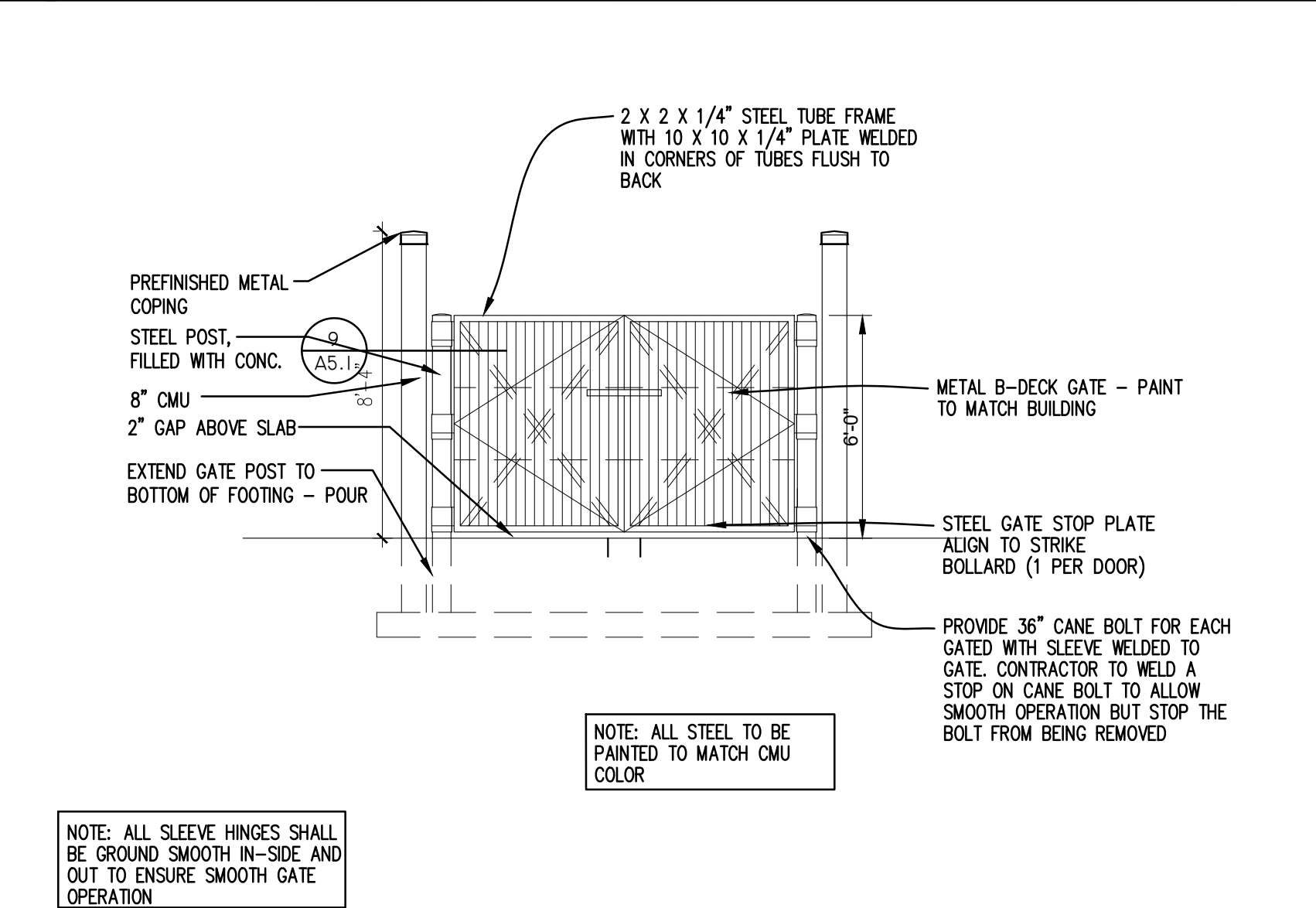


\* DIMENSIONS PER UTILITY CO. REQUIREMENTS

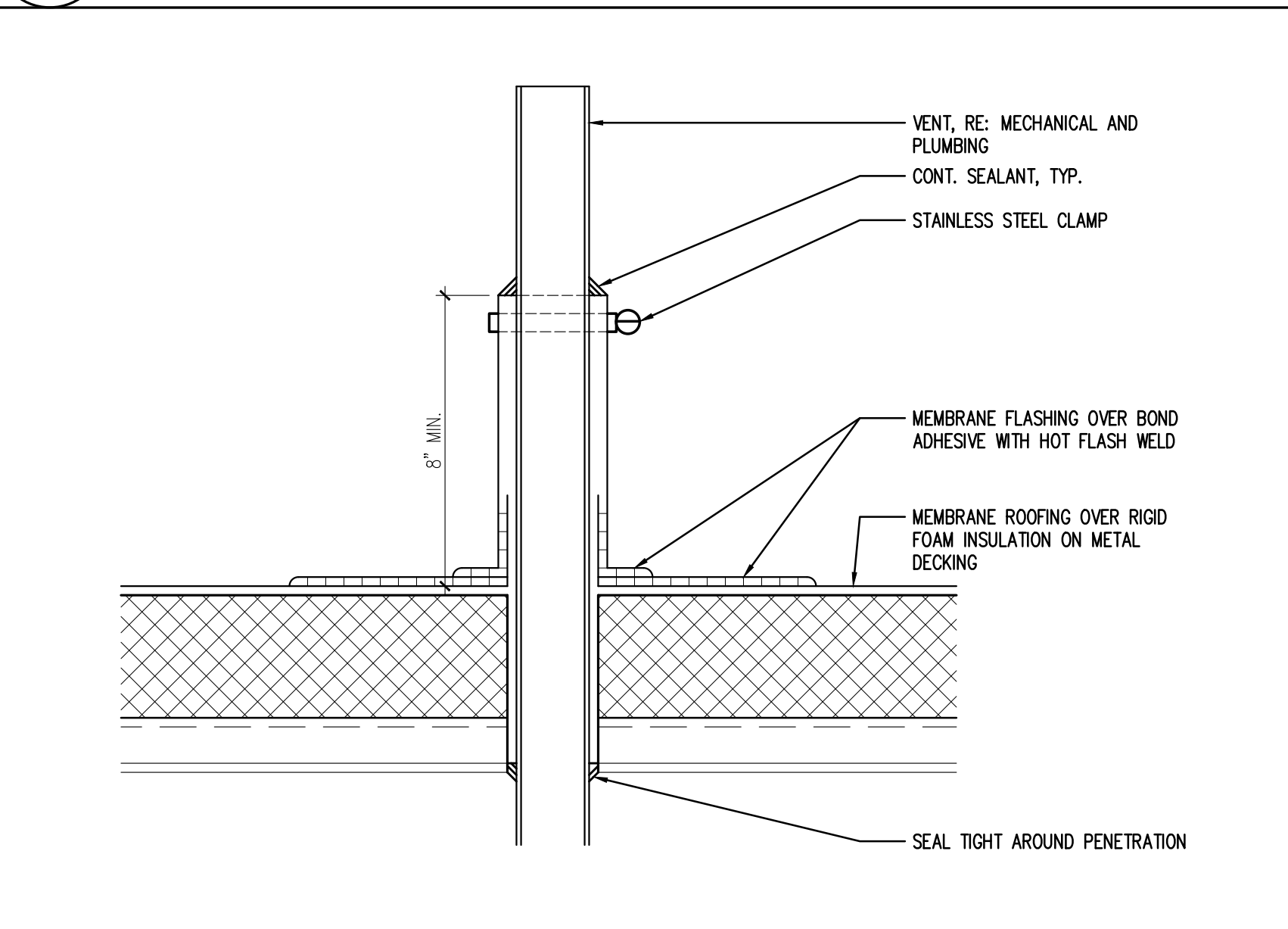
**2** 3-PHASE TRANSFORMER PAD VAULT  
SCALE: NTS



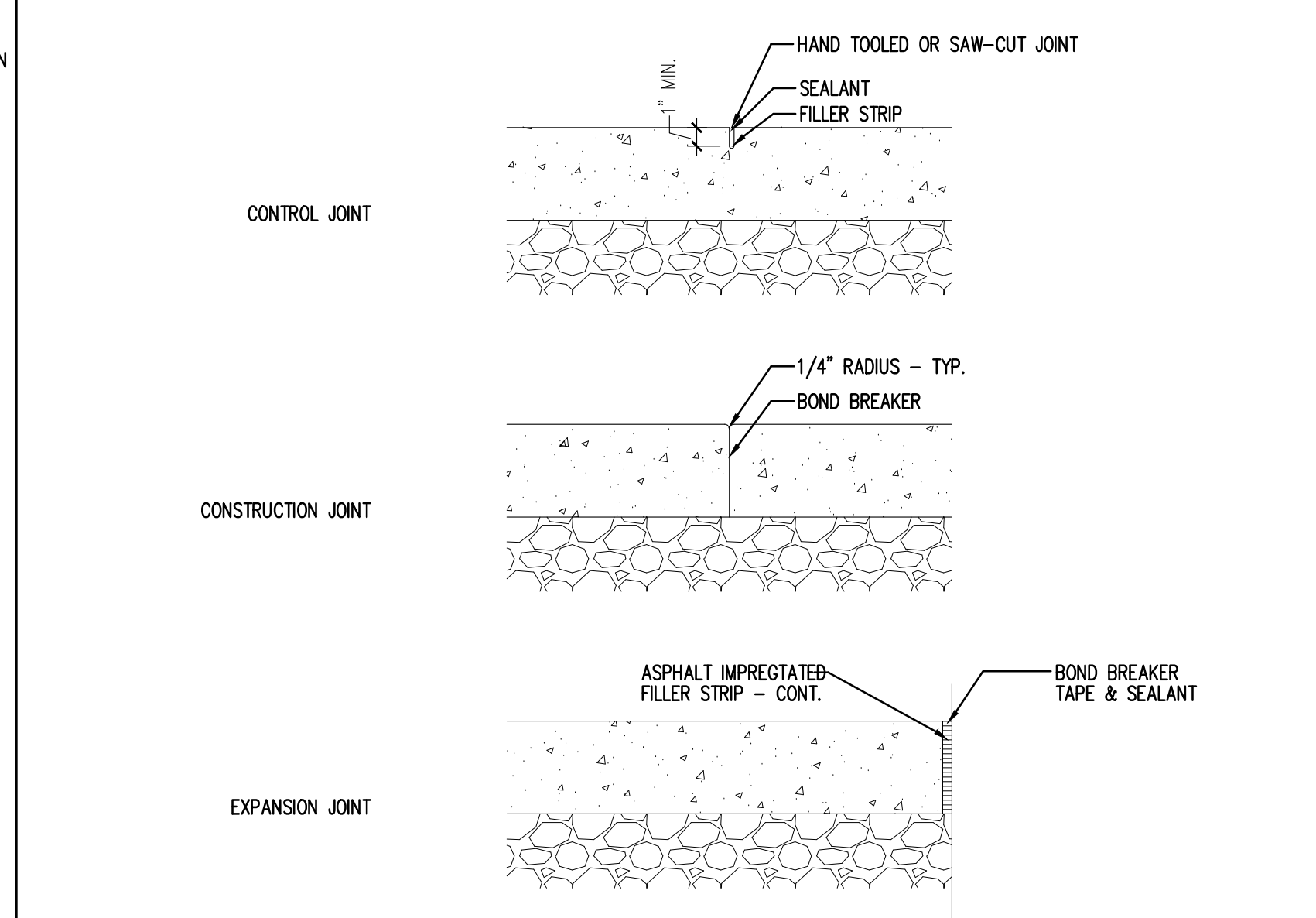
**10** DUMPSTER ENCLOSURE SECTION  
SCALE: 1/2" = 1'-0"



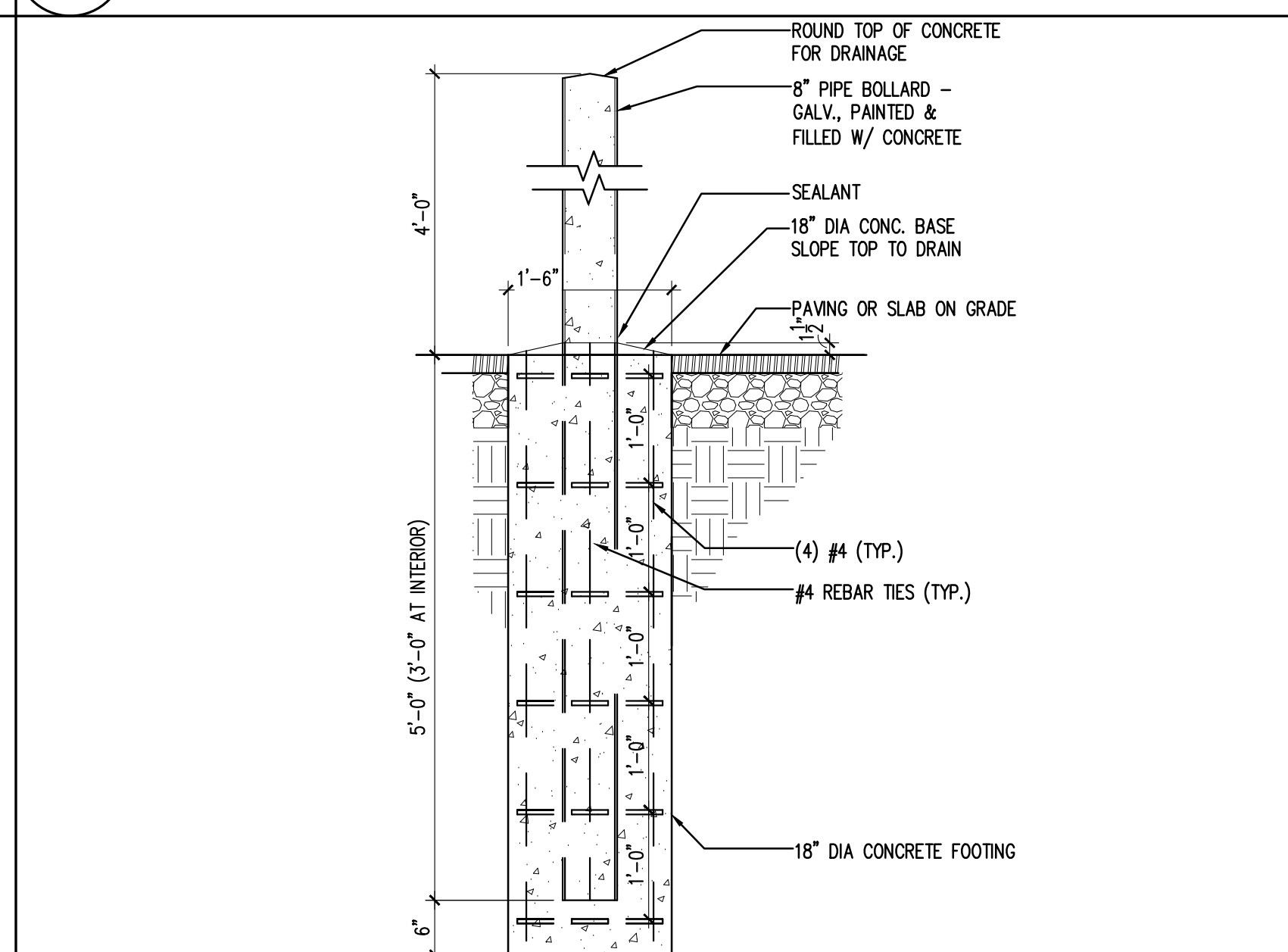
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



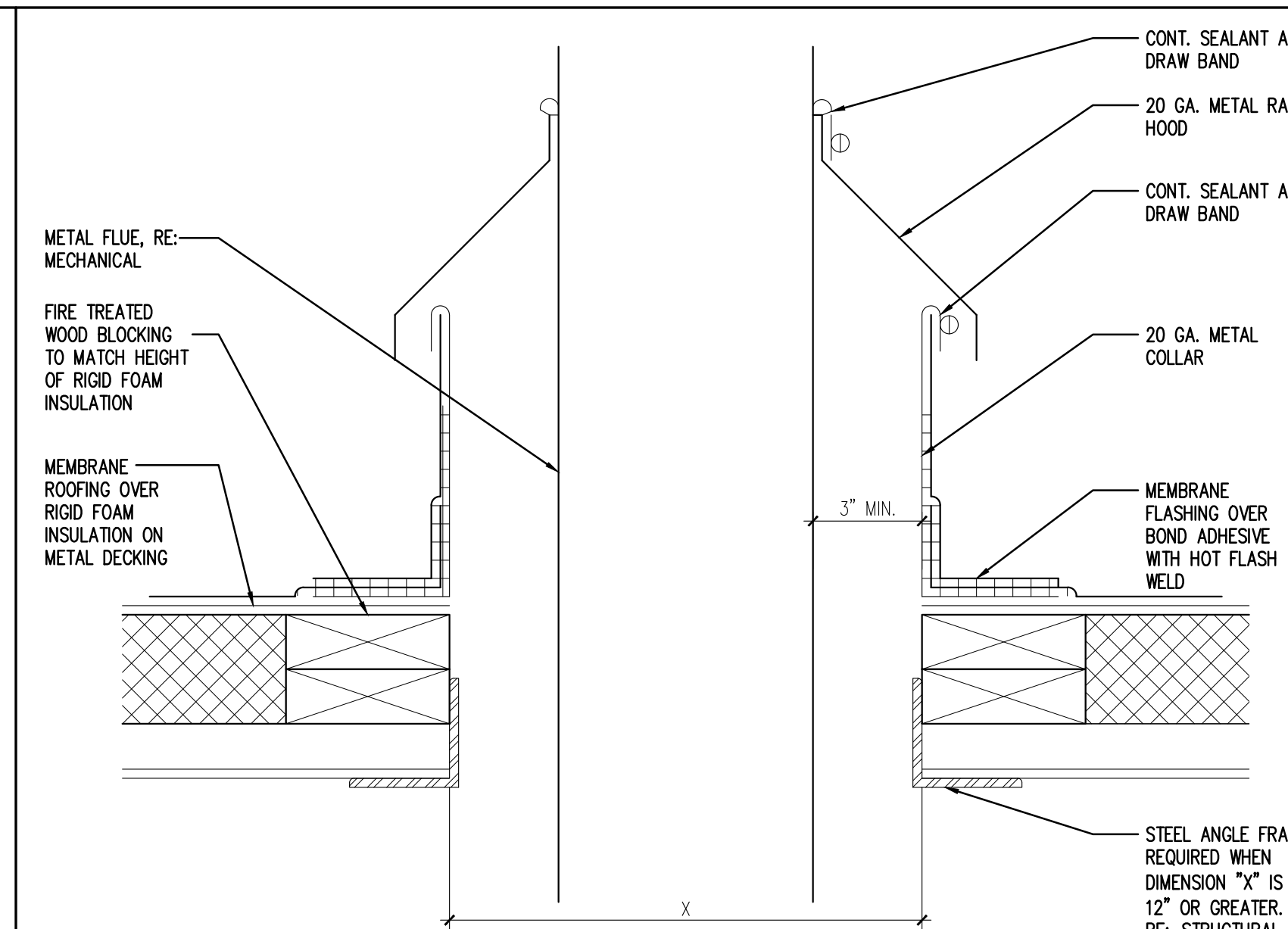
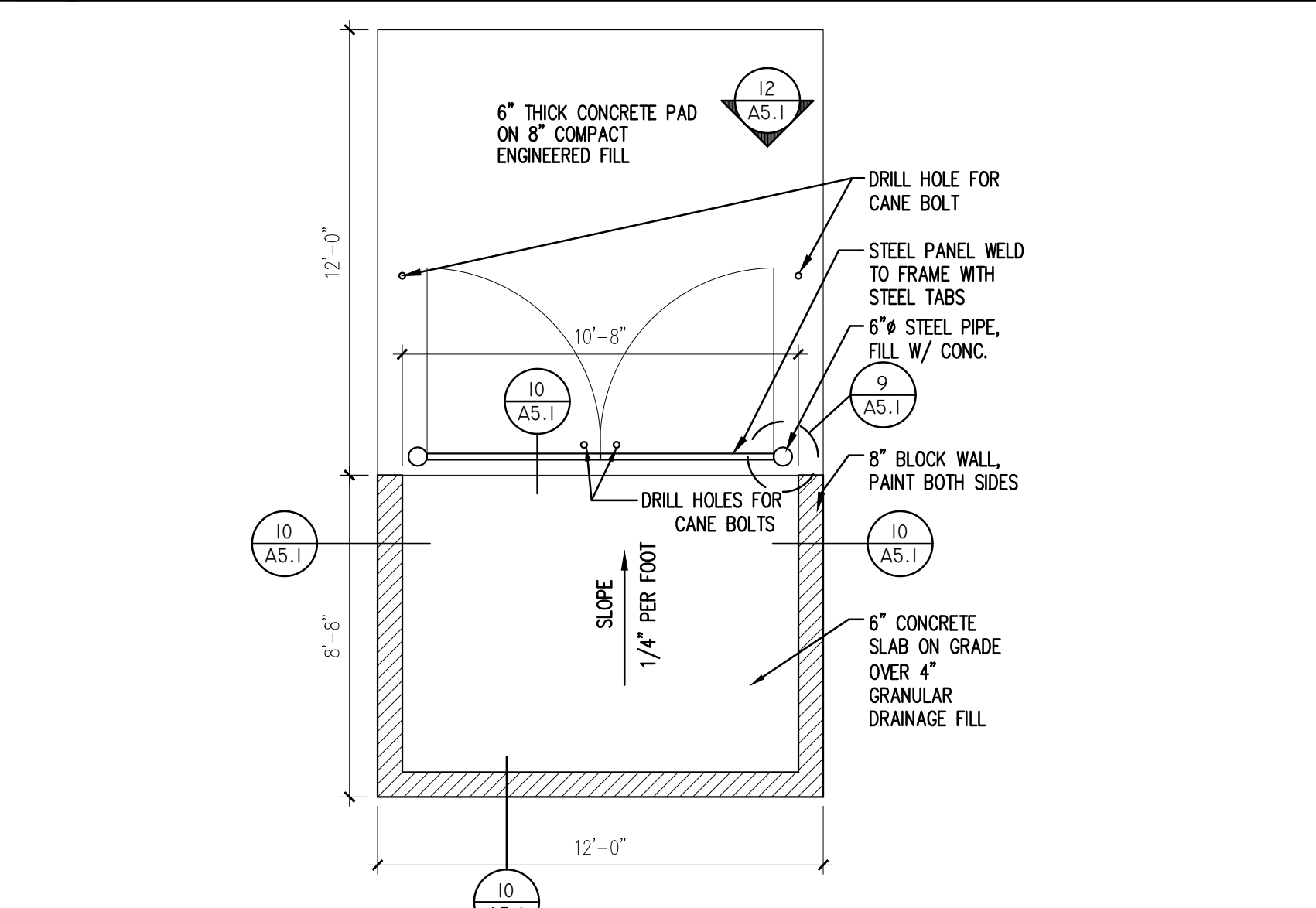
**14** TYPICAL VENT PIPE FLASHING DETAIL  
SCALE: 3" = 1'-0"



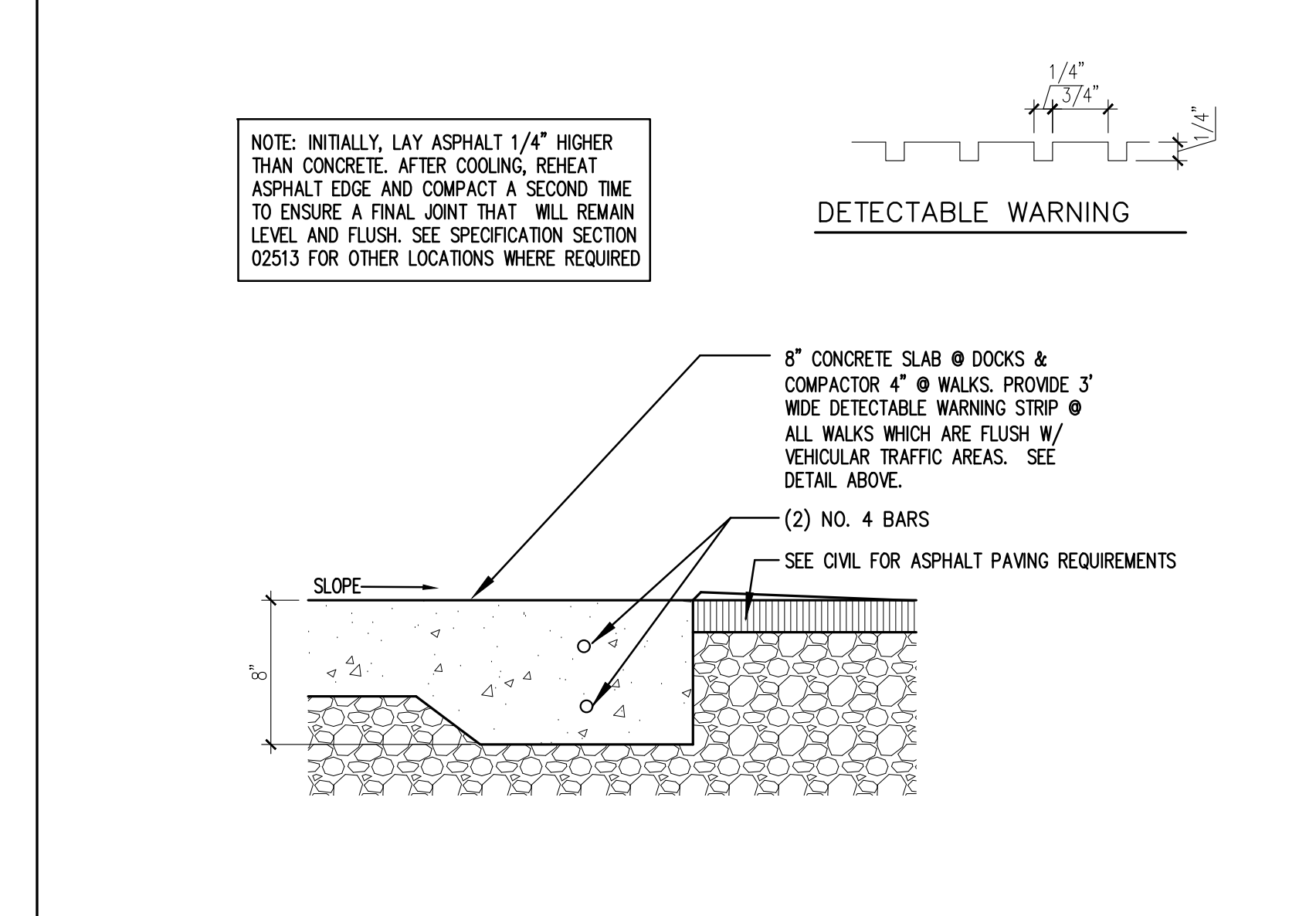
**3** CONCRETE JOINT DETAIL  
SCALE: 1-1/2" = 1'-0"



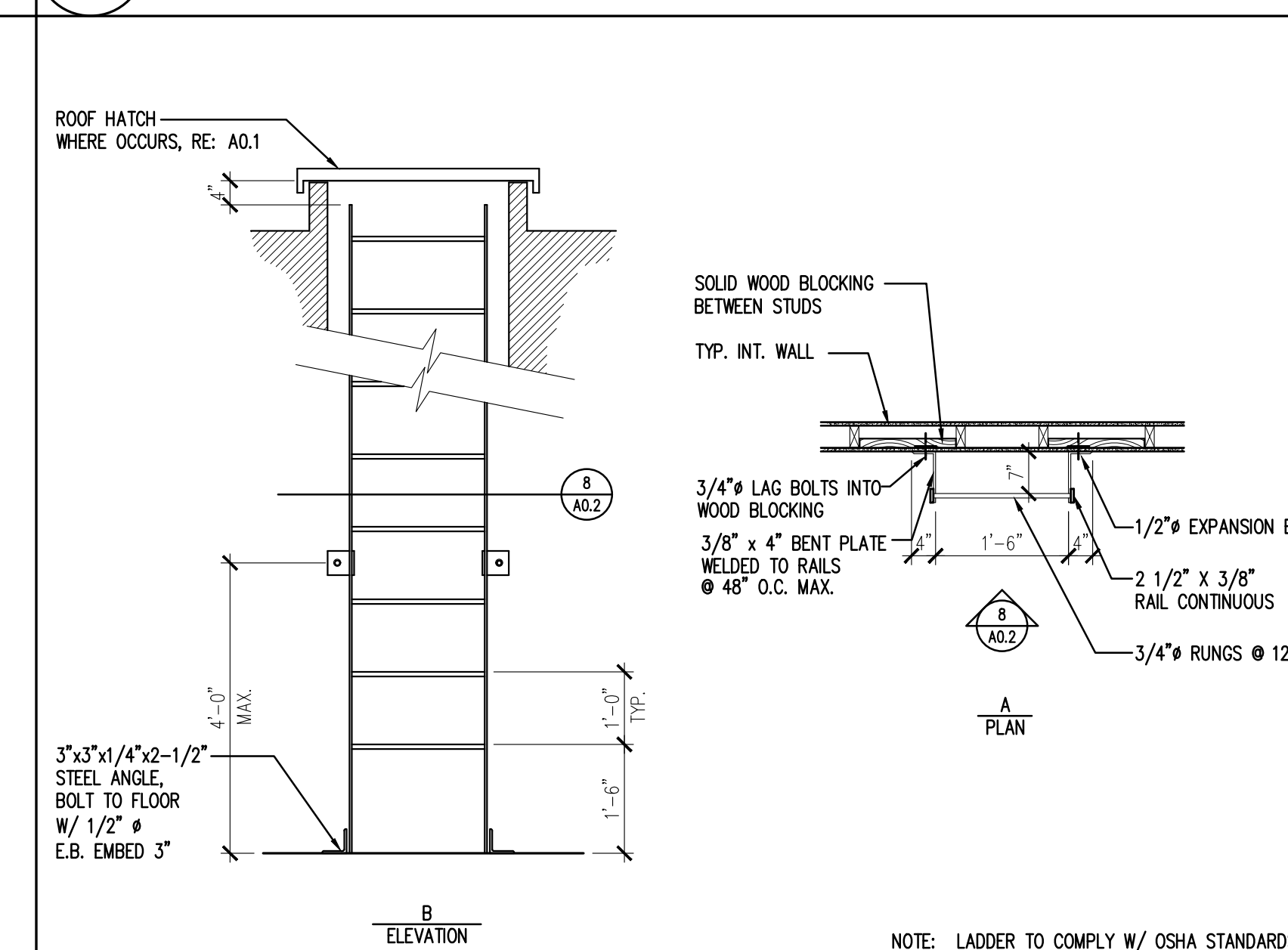
**7** EXTERIOR BOLLARD DETAIL  
SCALE: 3/4" = 1'-0"



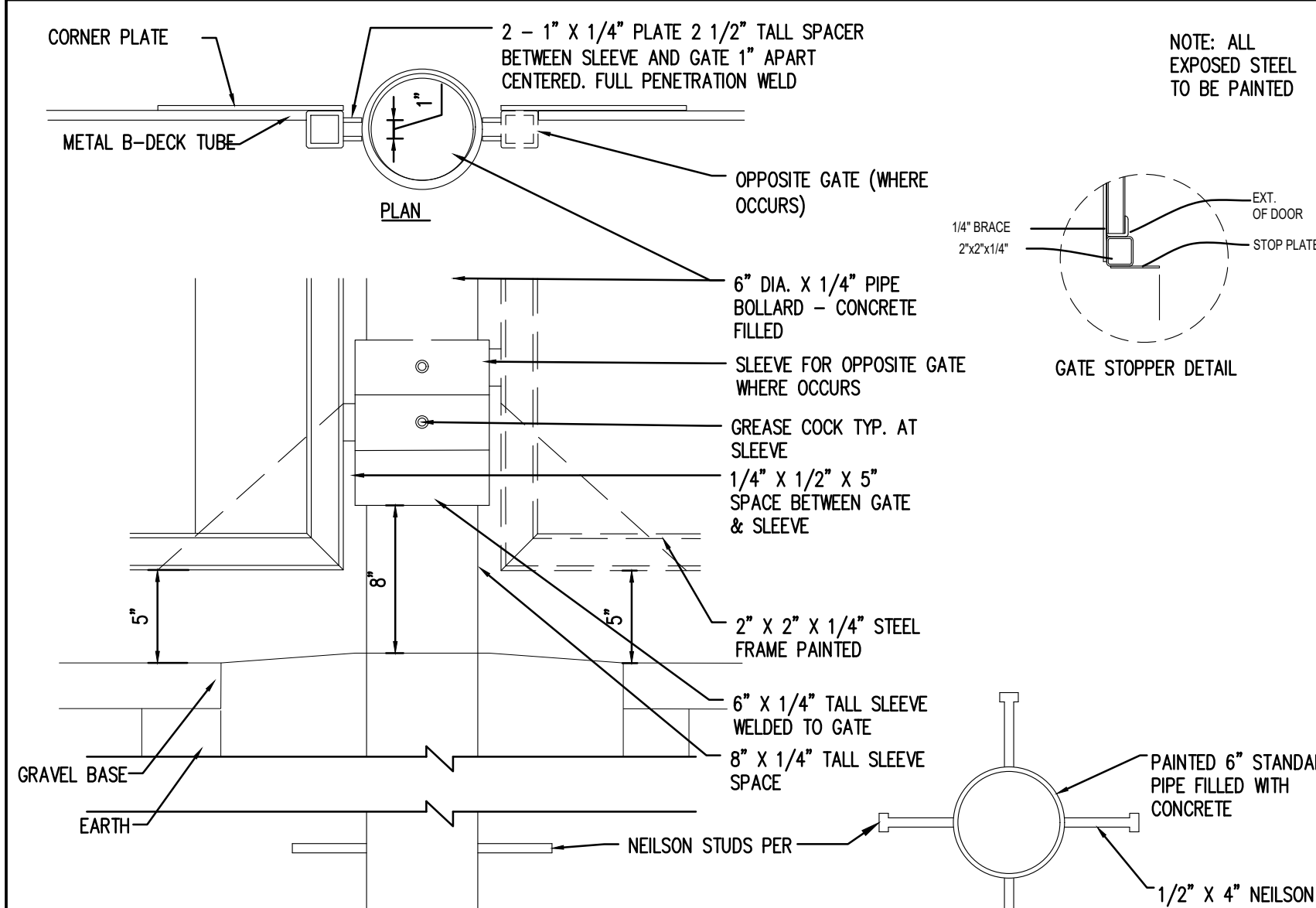
**15** TYPICAL FLUE FLASHING DETAIL  
SCALE: 3" = 1'-0"



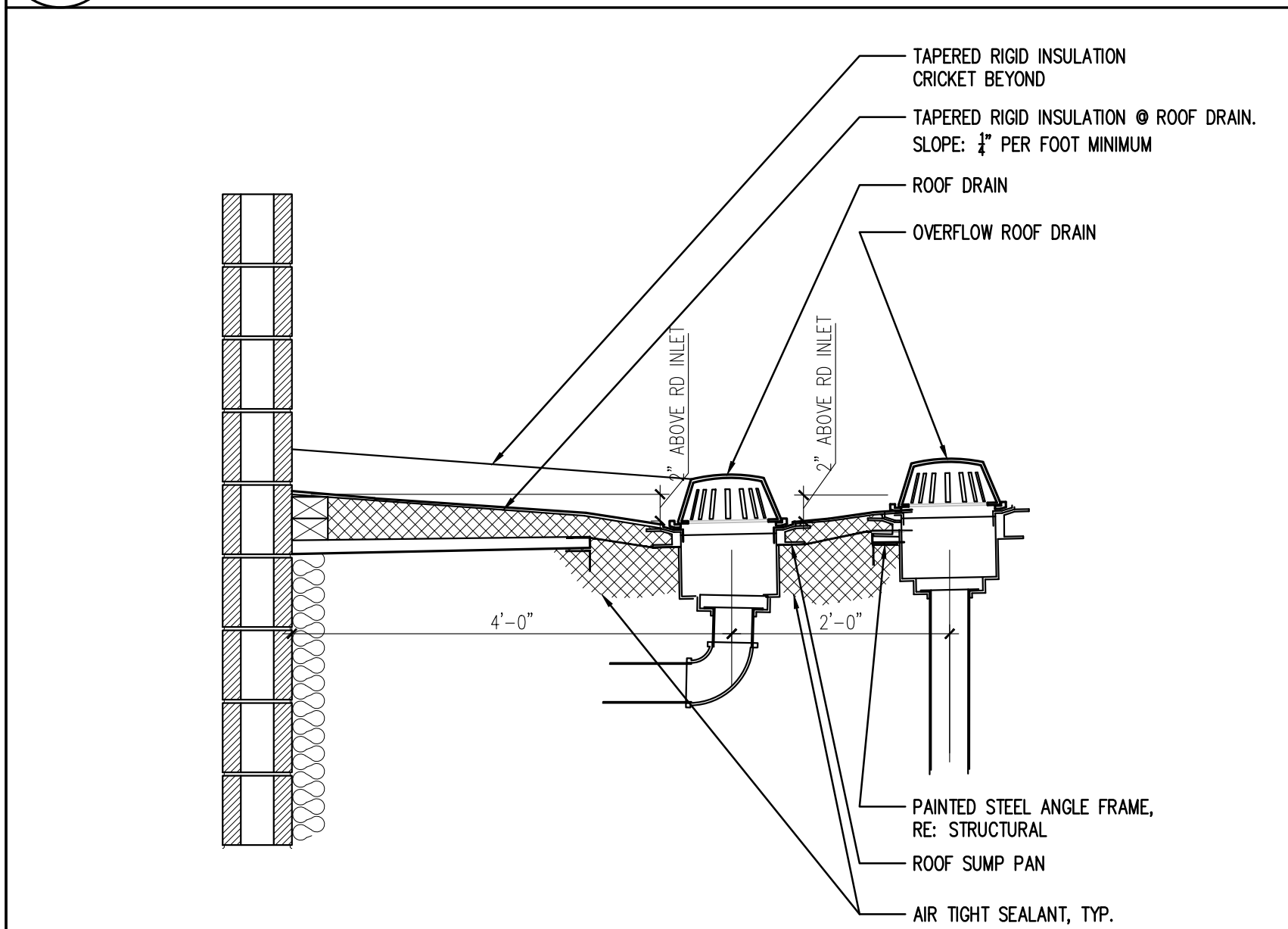
**4** PAVING DETAIL  
SCALE: 1" = 1'-0"



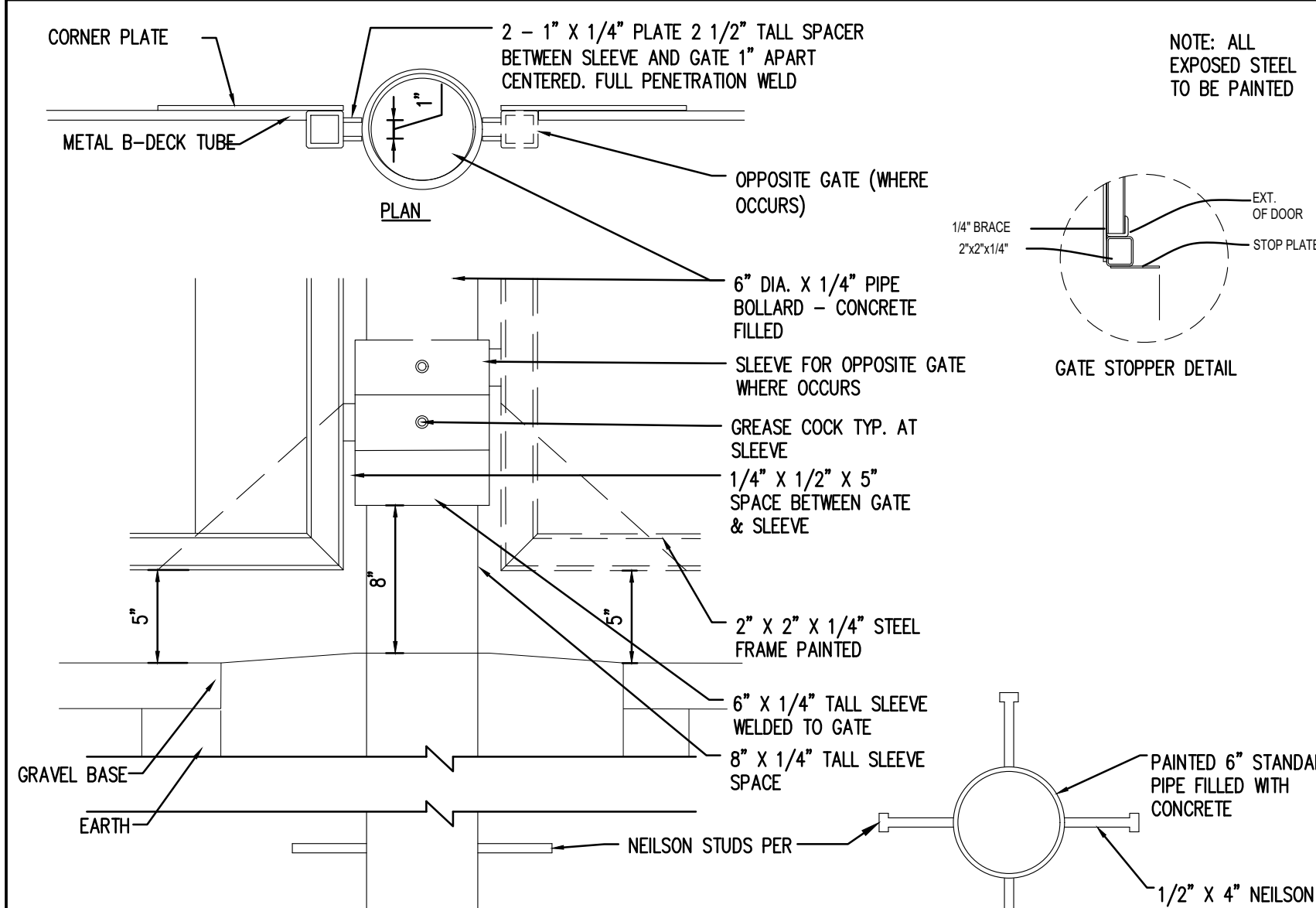
**8** ROOF ACCESS LADDER  
SCALE: 1/2" = 1'-0"



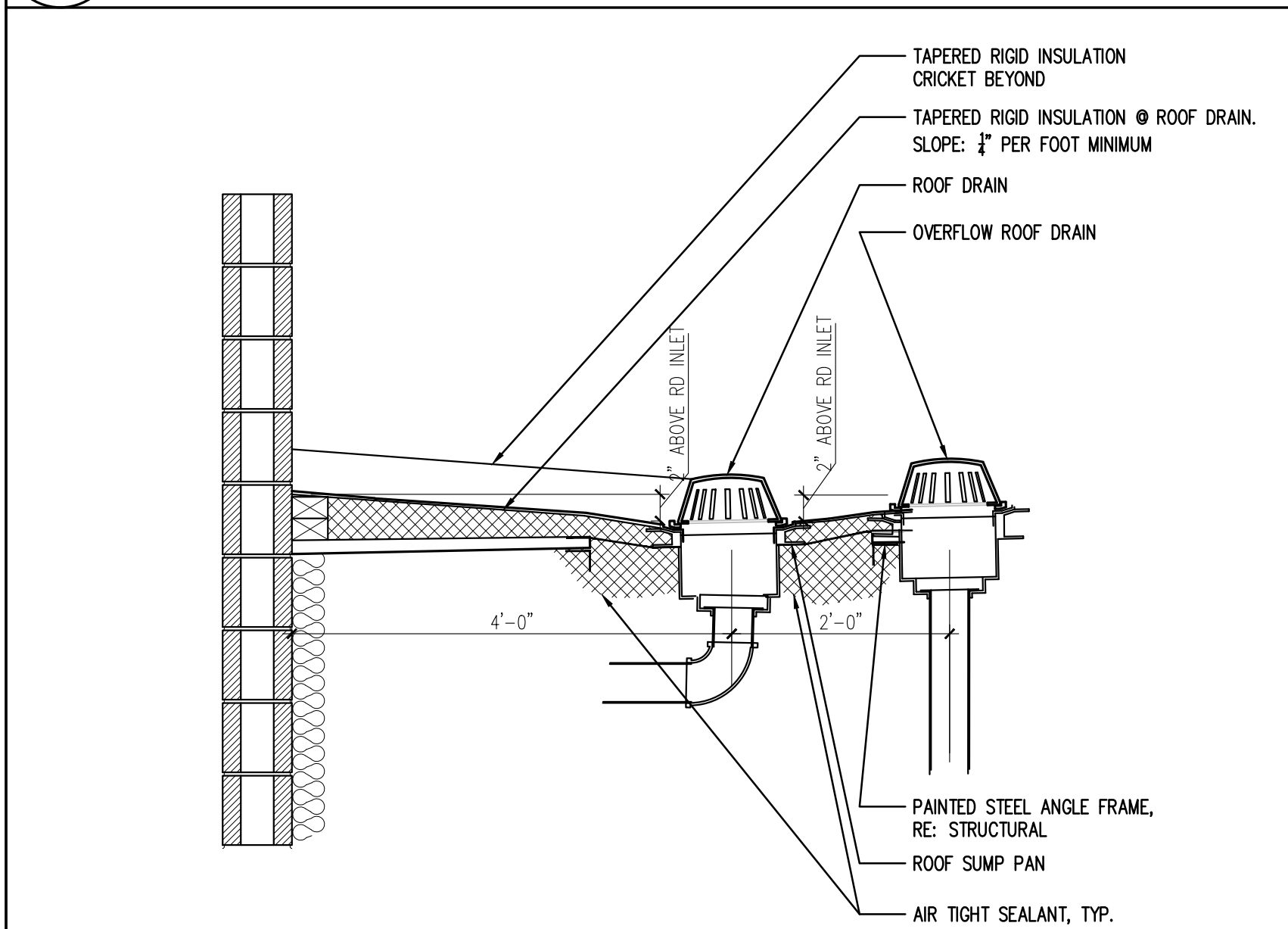
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



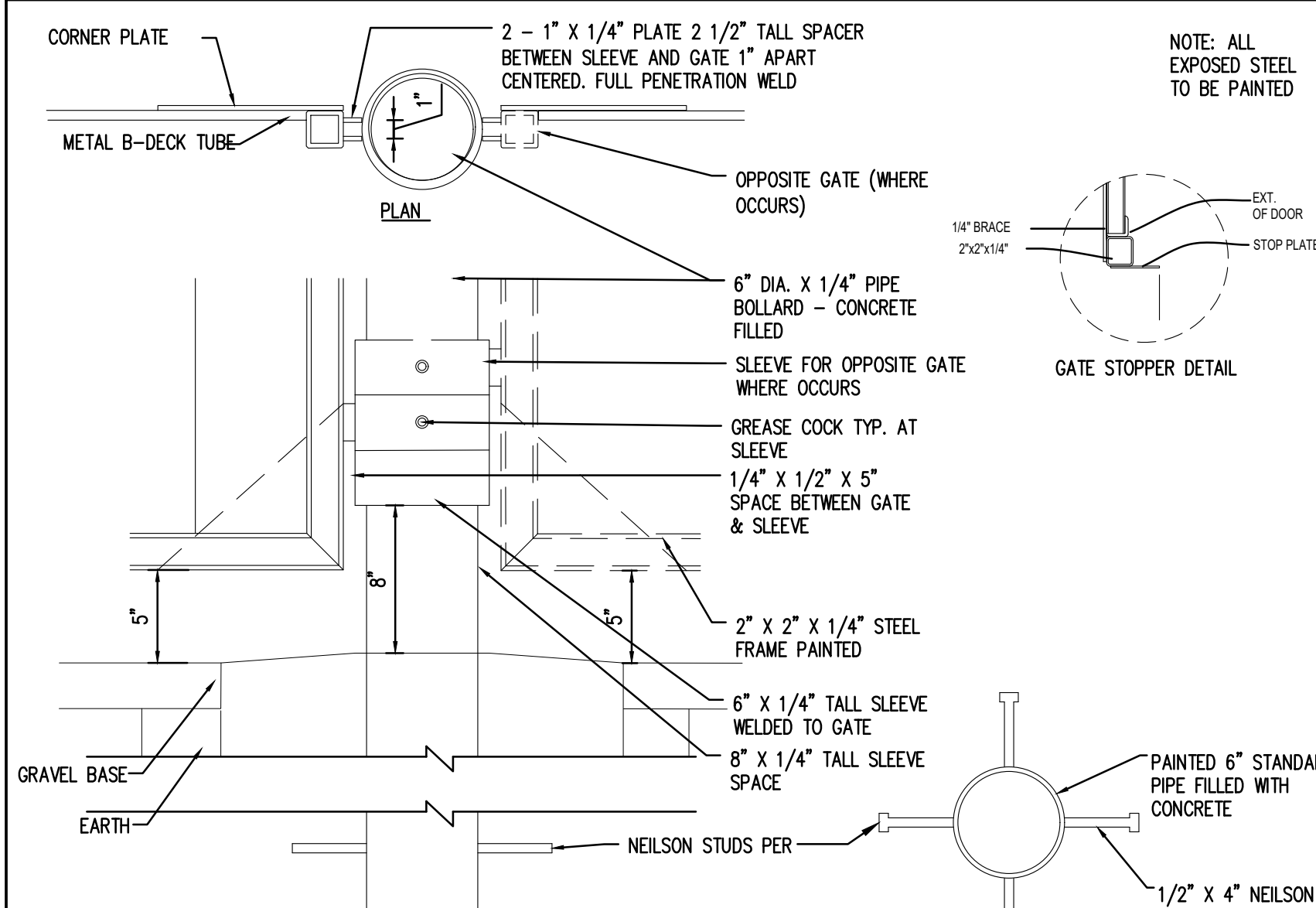
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



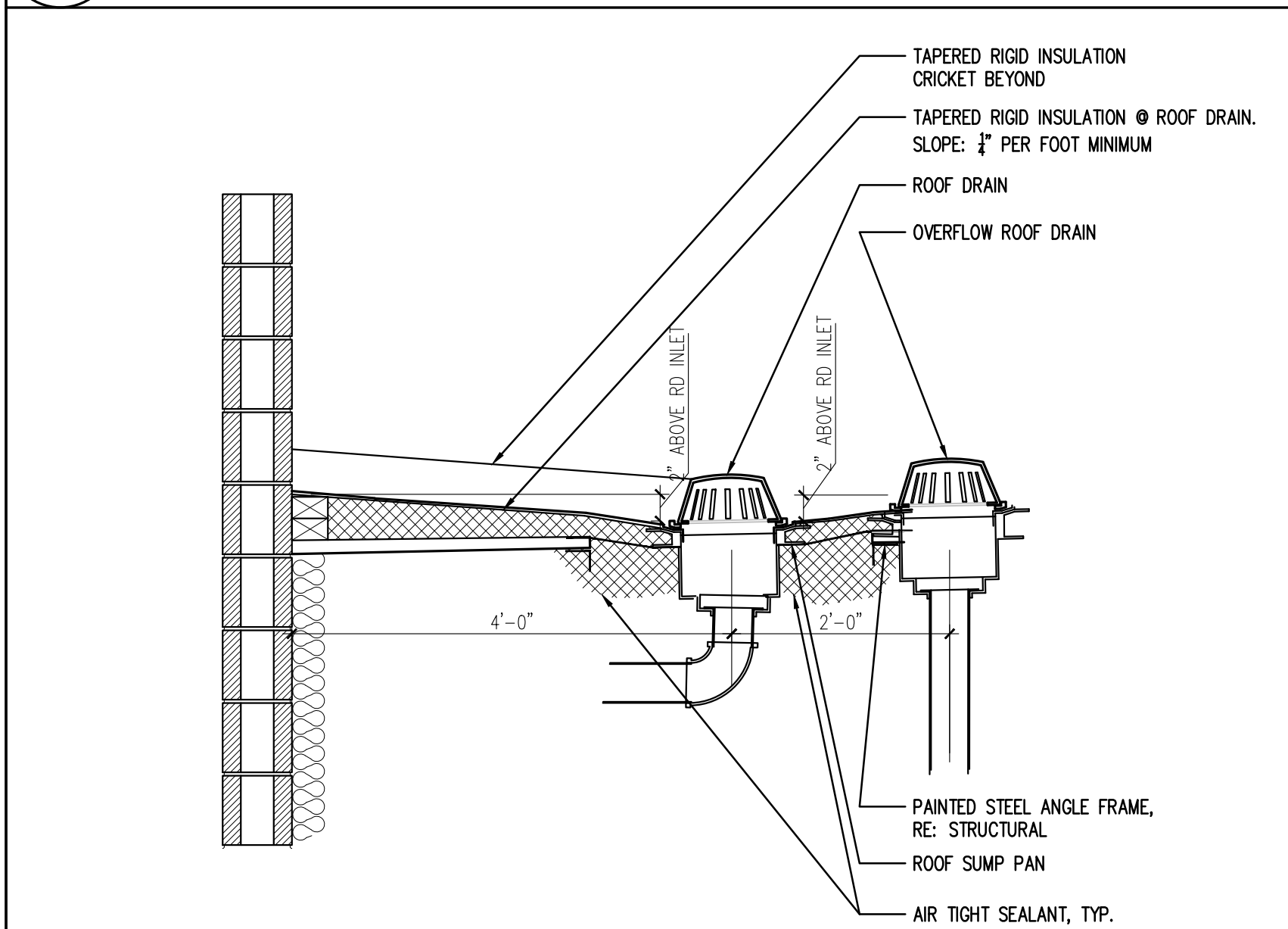
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SCALE: 1-1/2" = 1'-0"



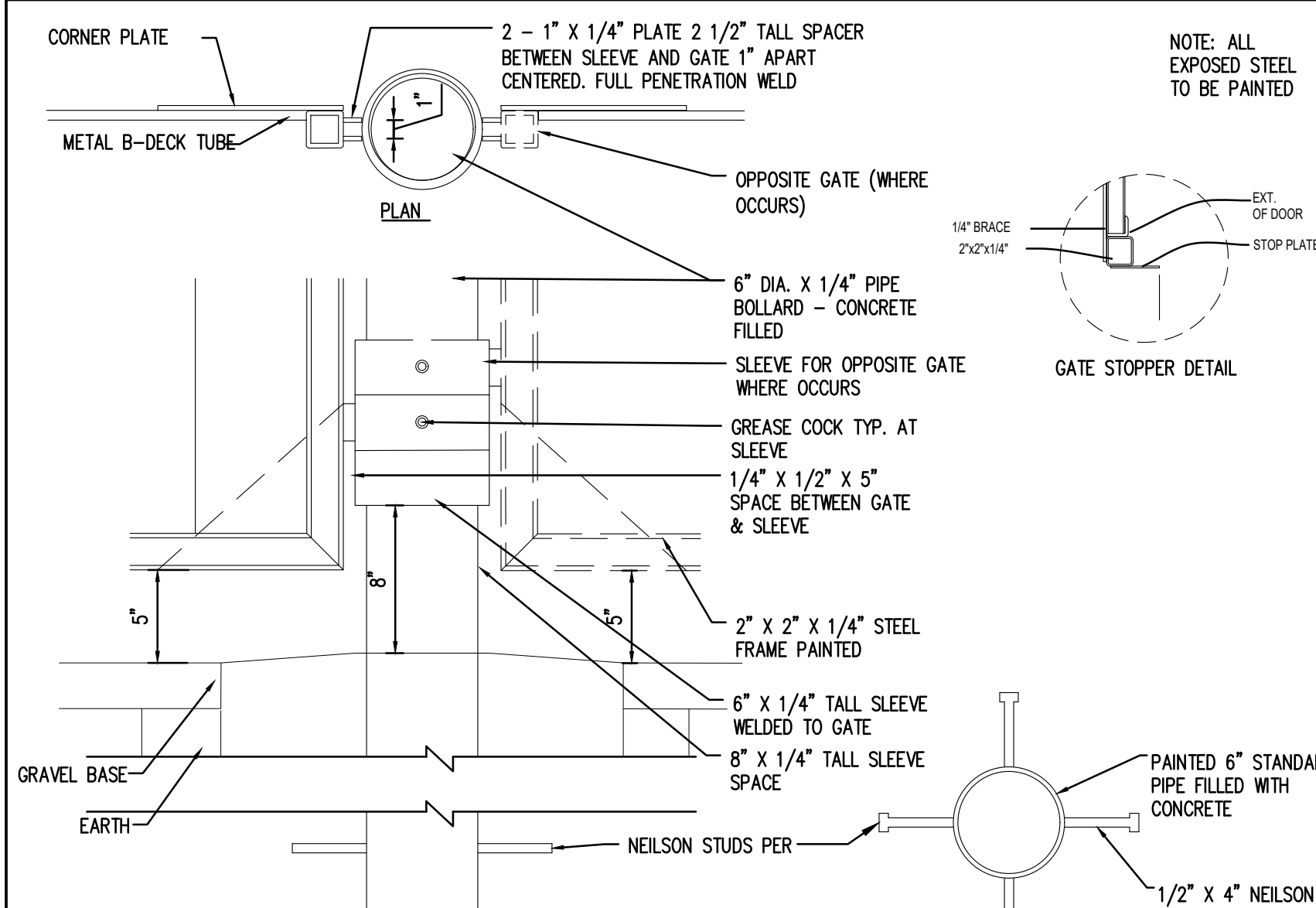
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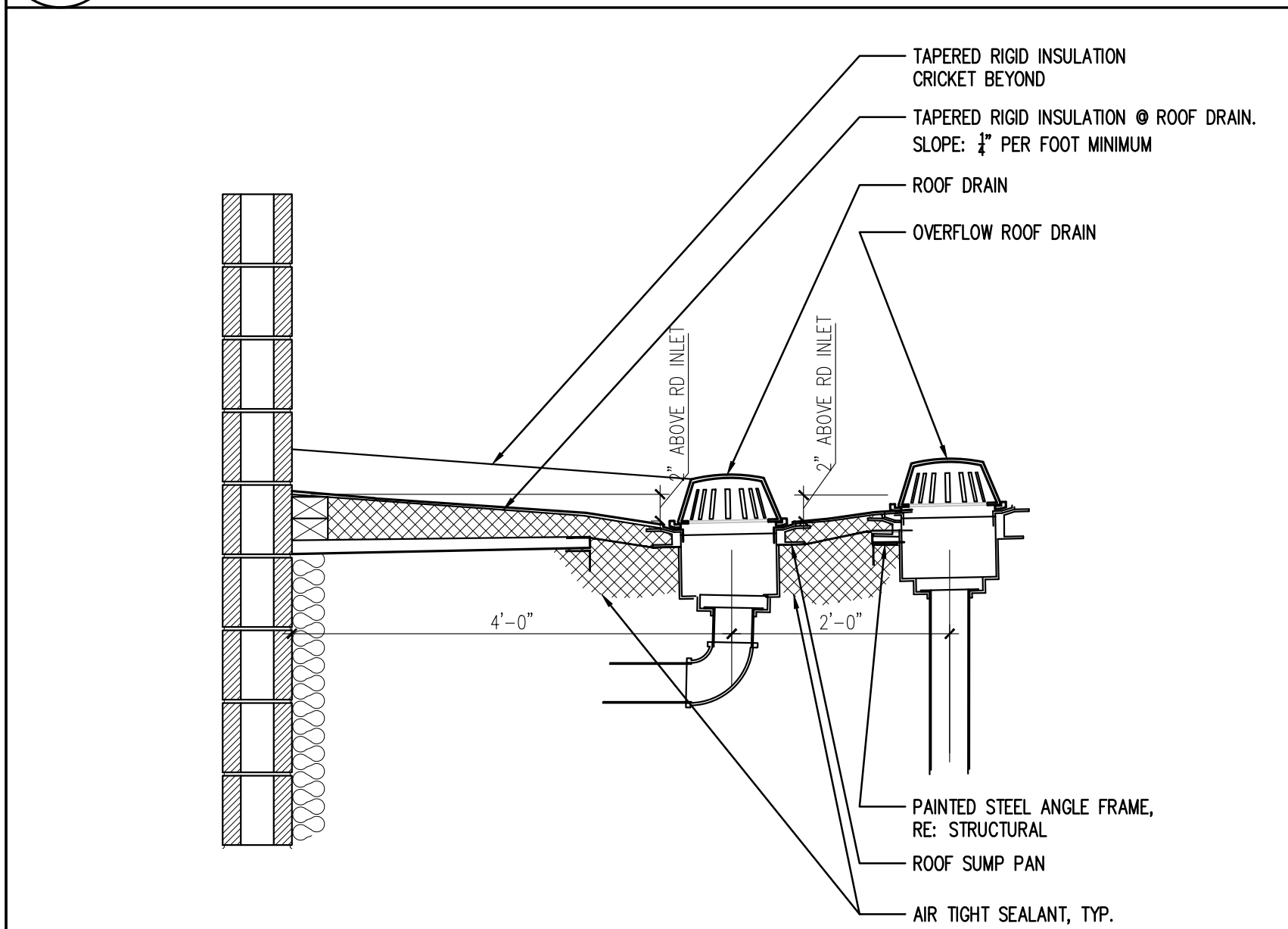
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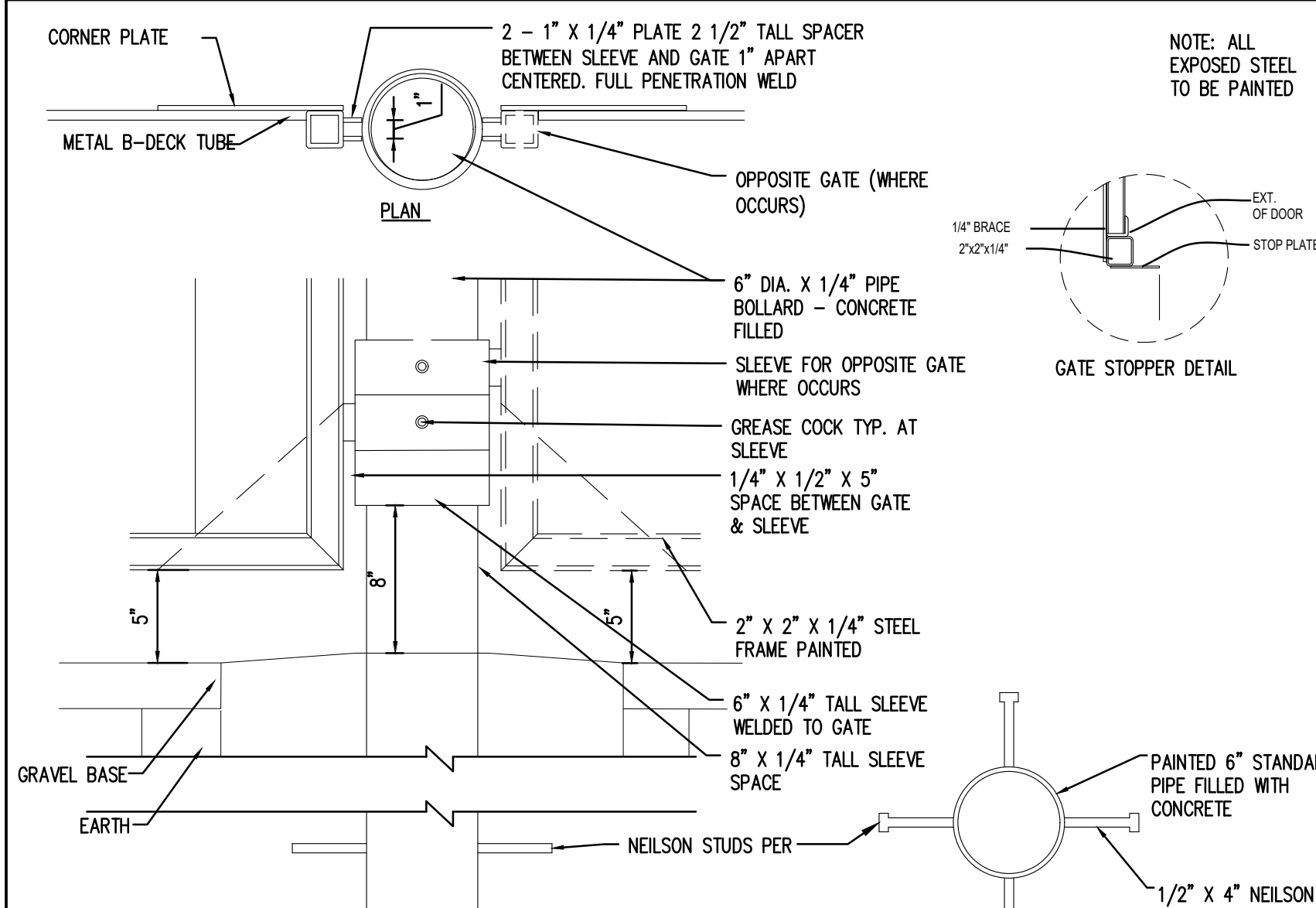
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SCALE: 3/4" = 1'-0"



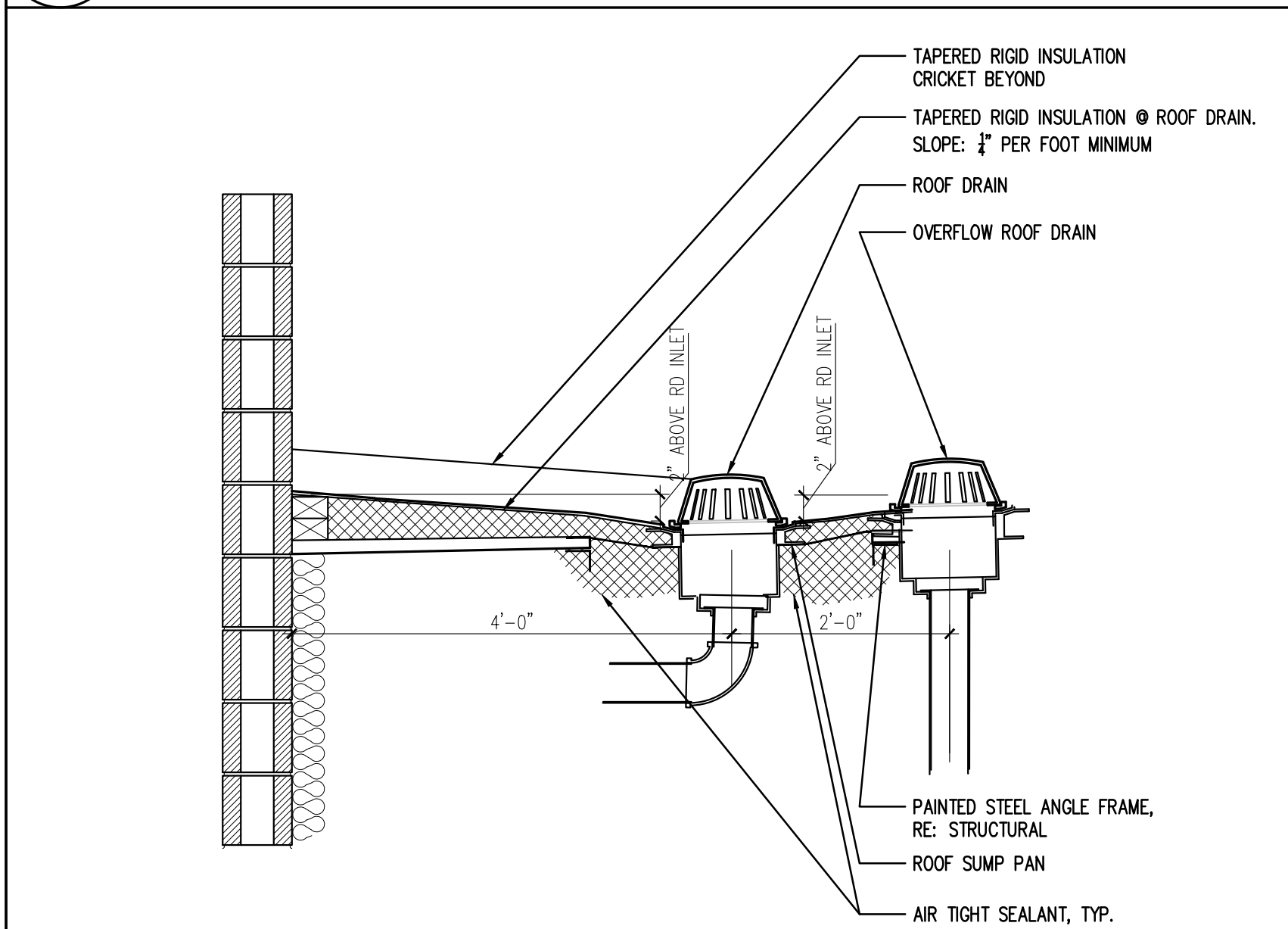
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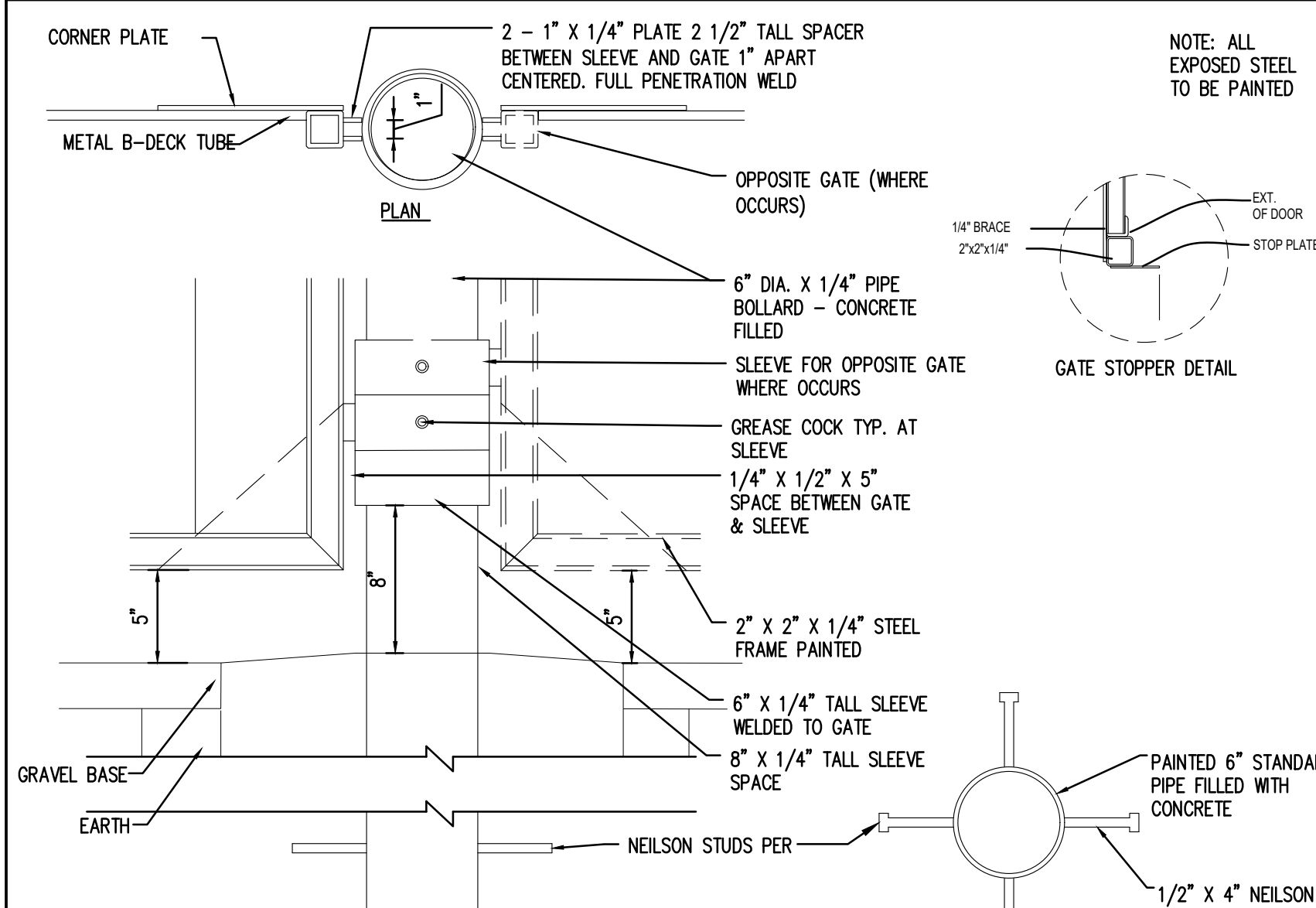
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



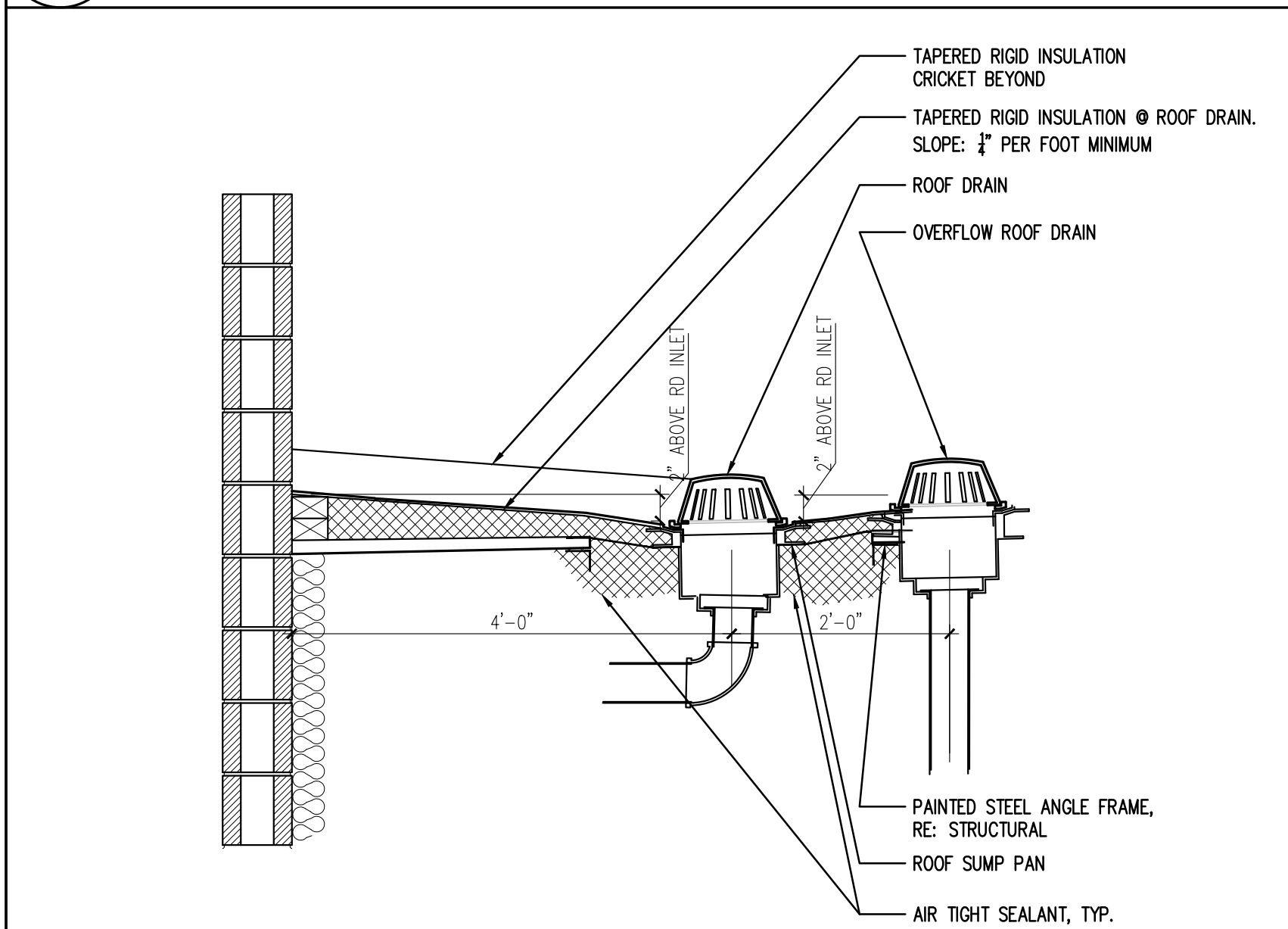
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



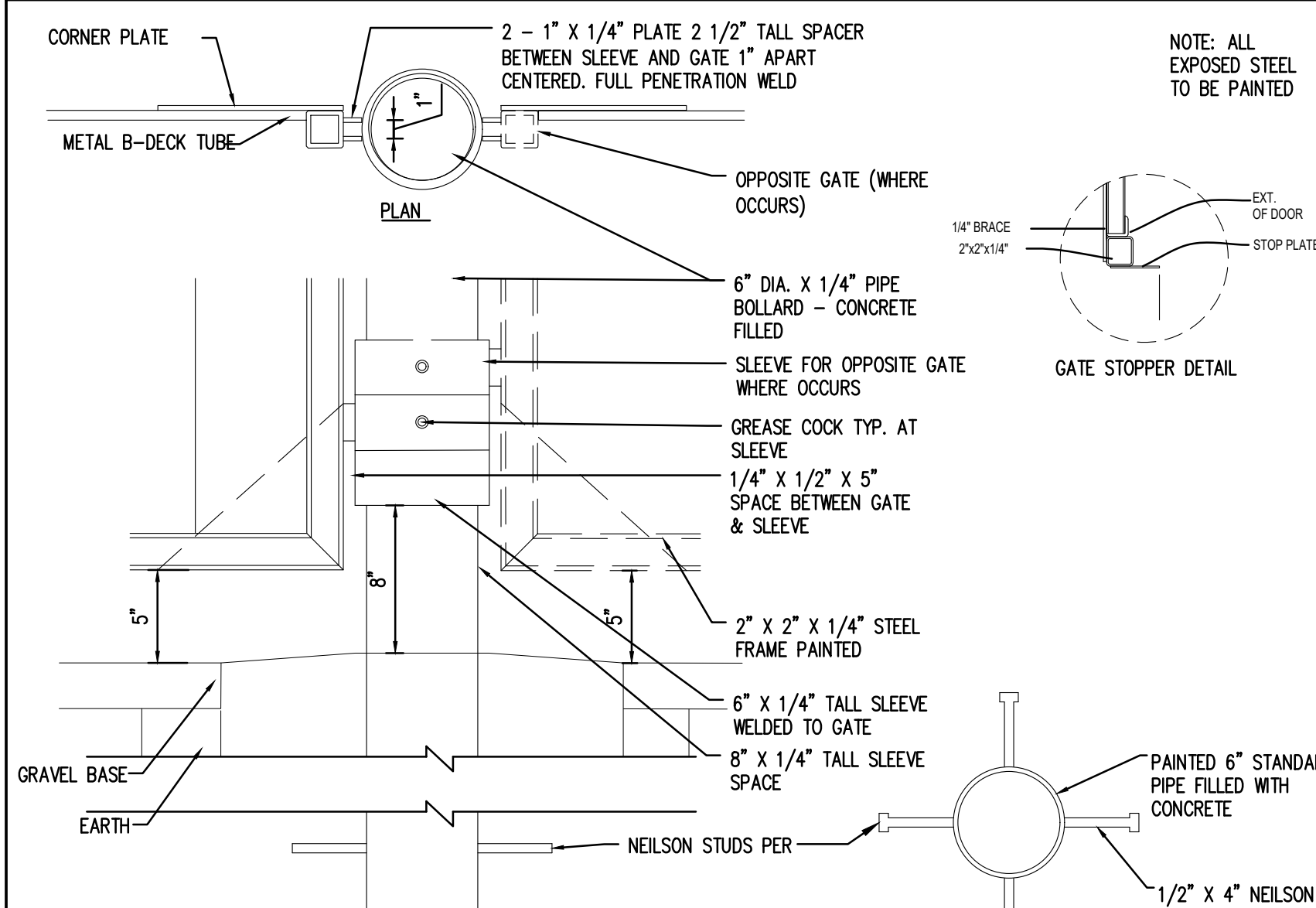
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



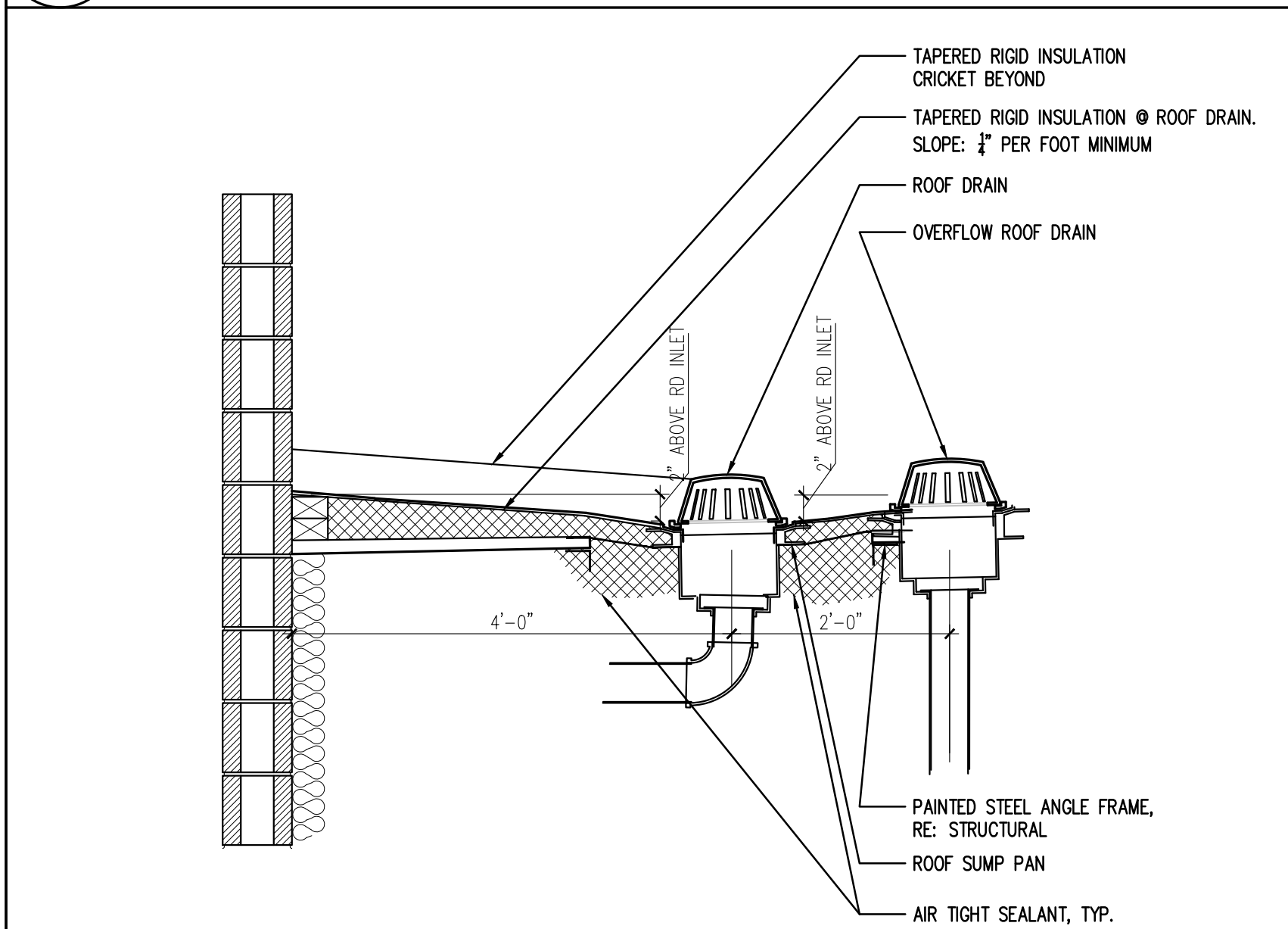
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



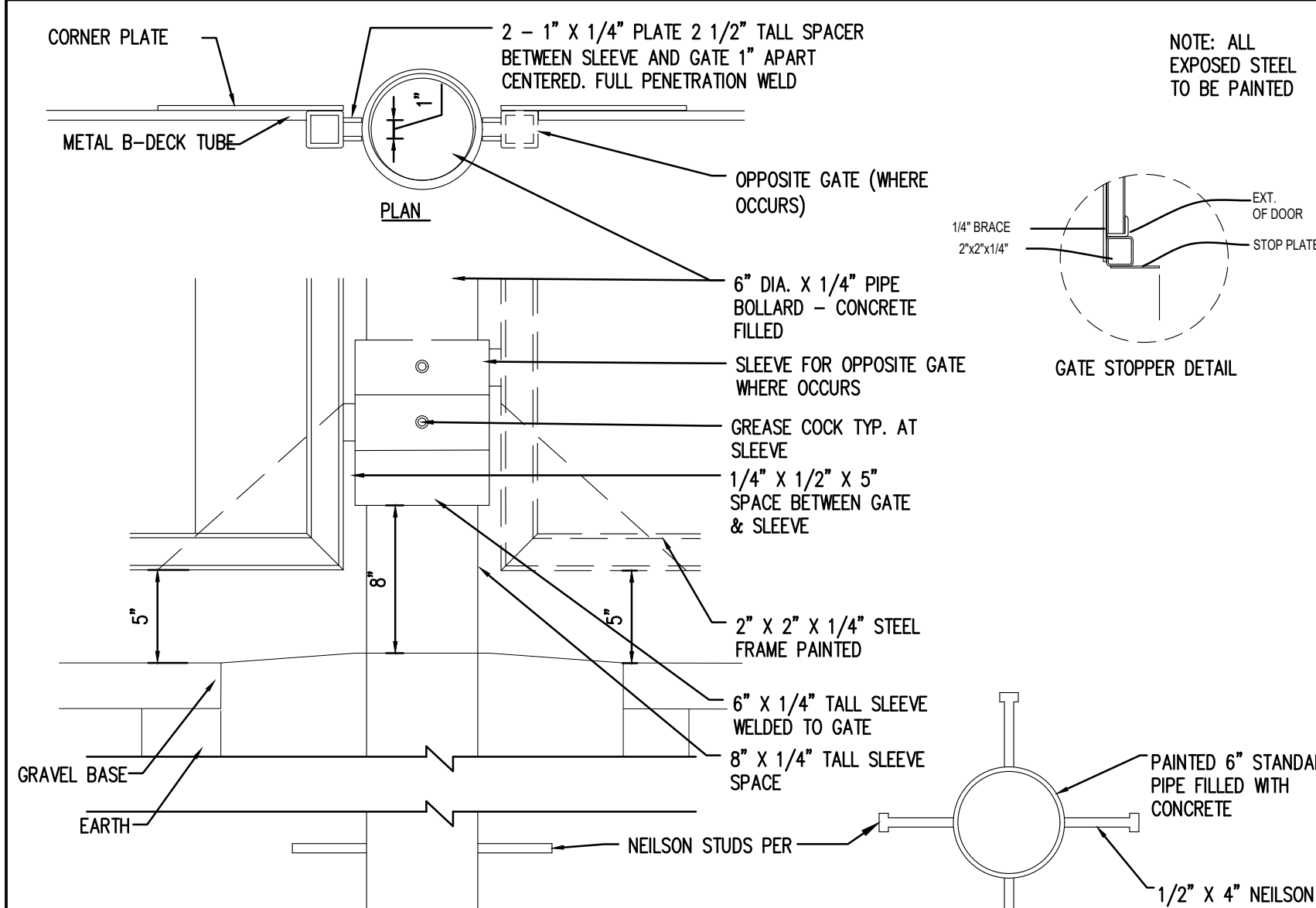
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



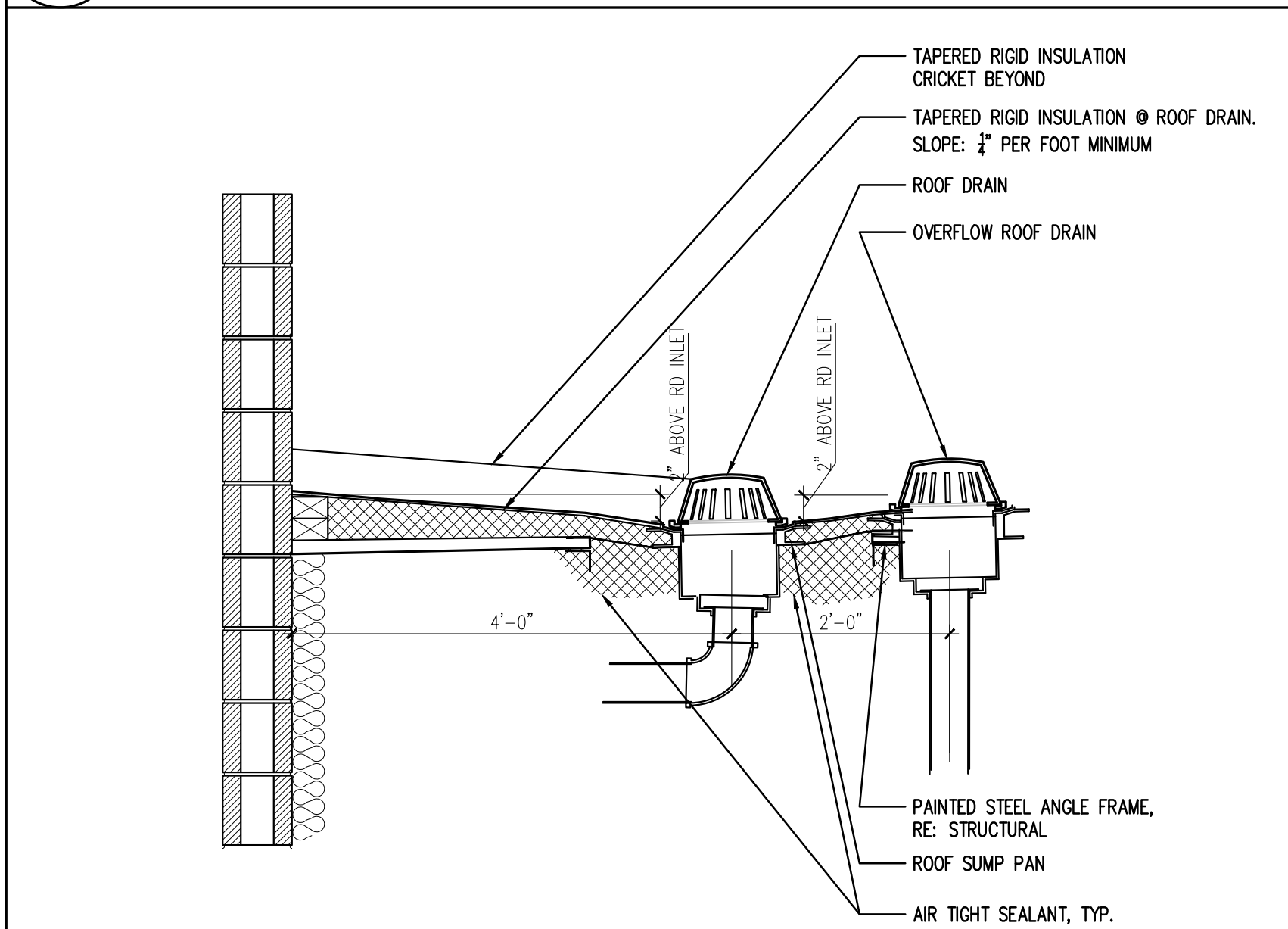
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



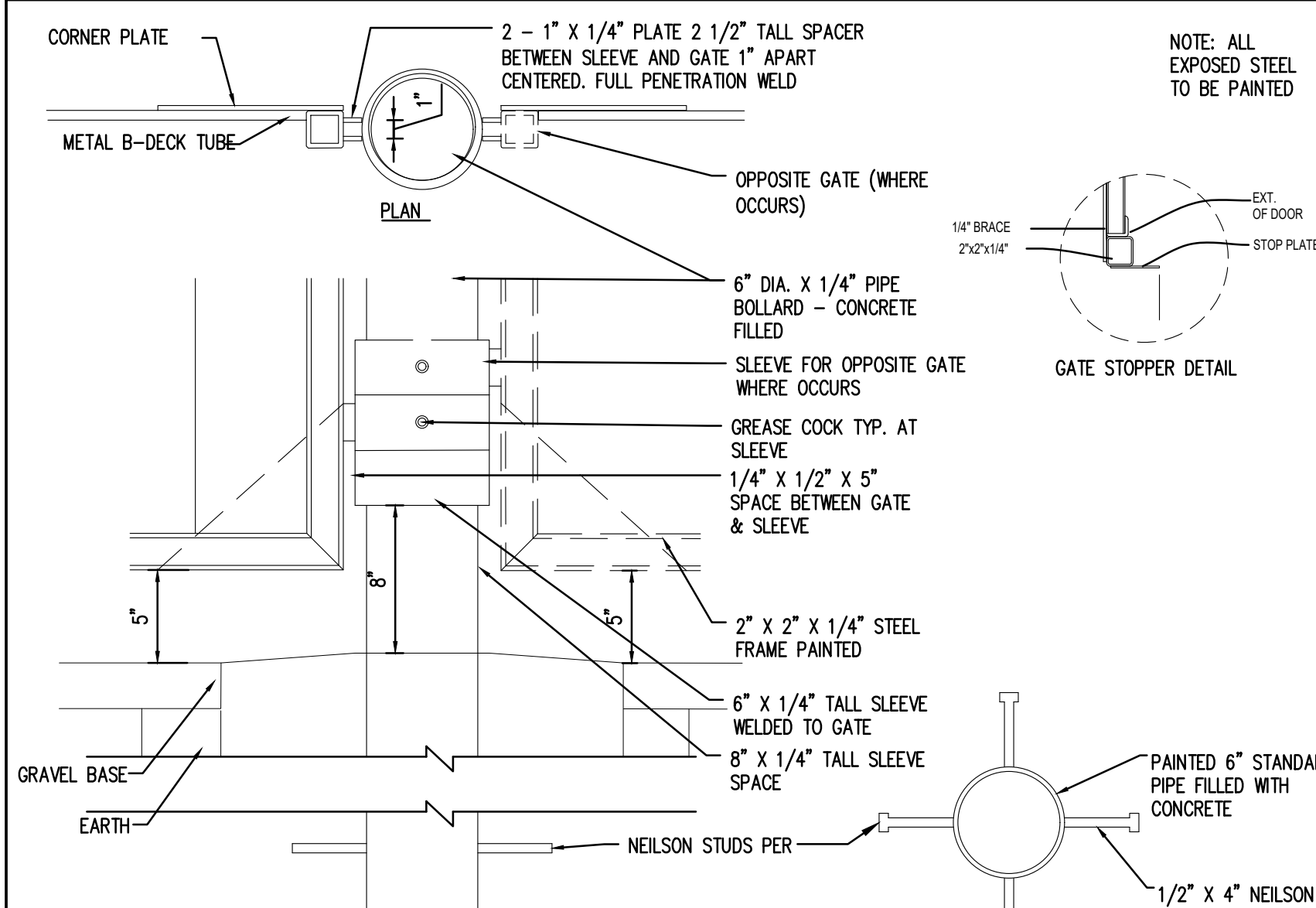
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



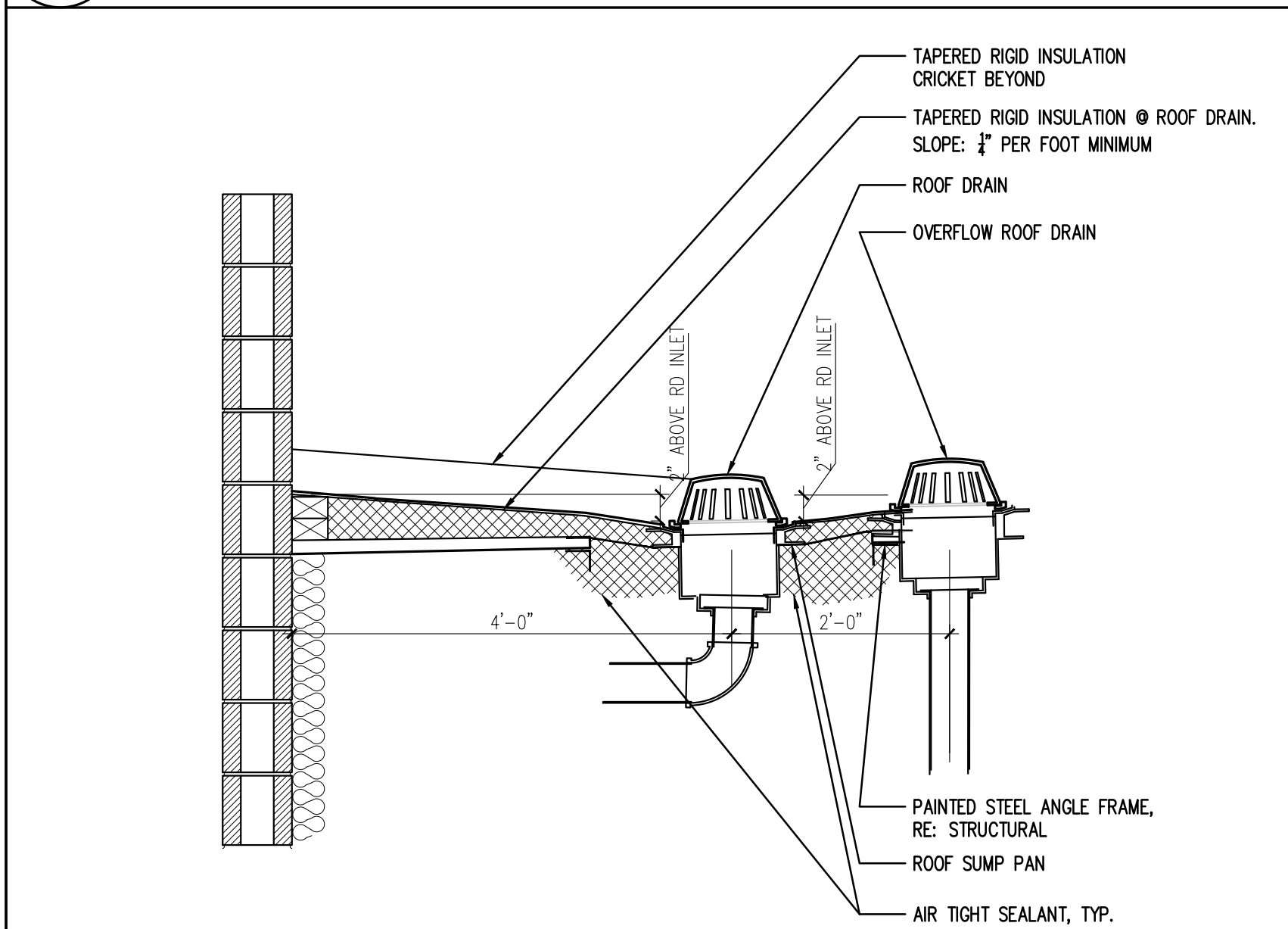
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



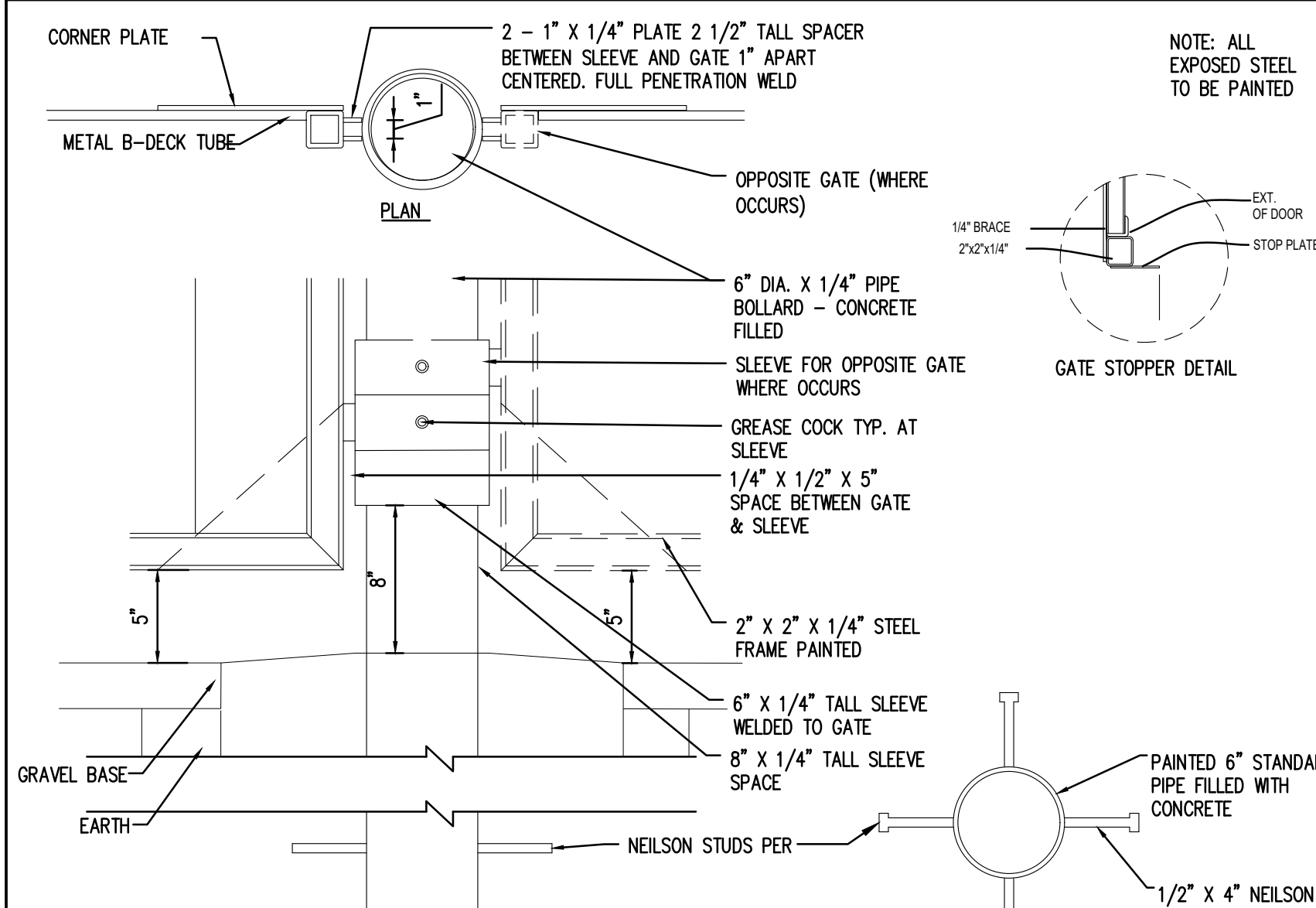
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SCALE: 3/4" = 1'-0"



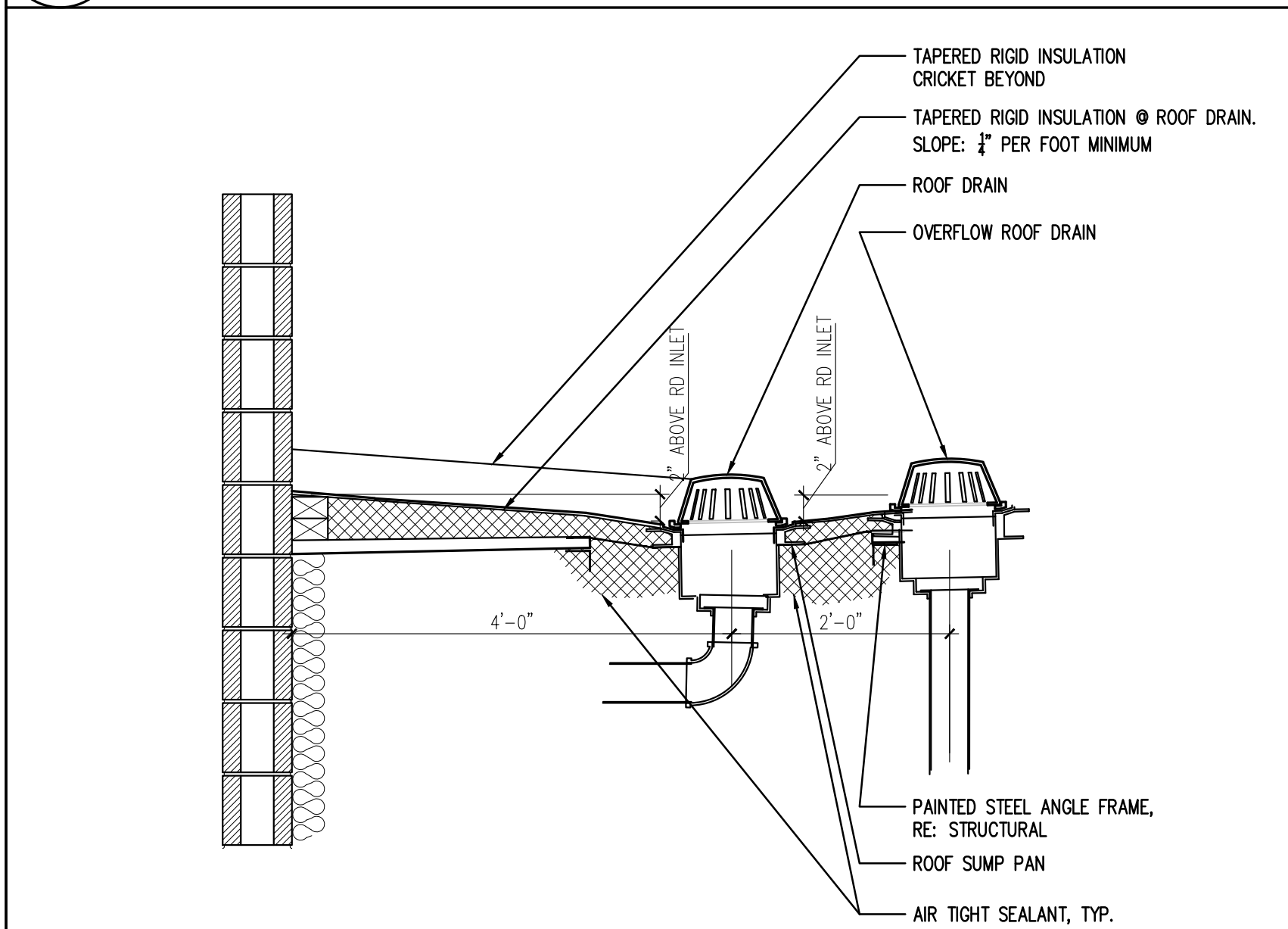
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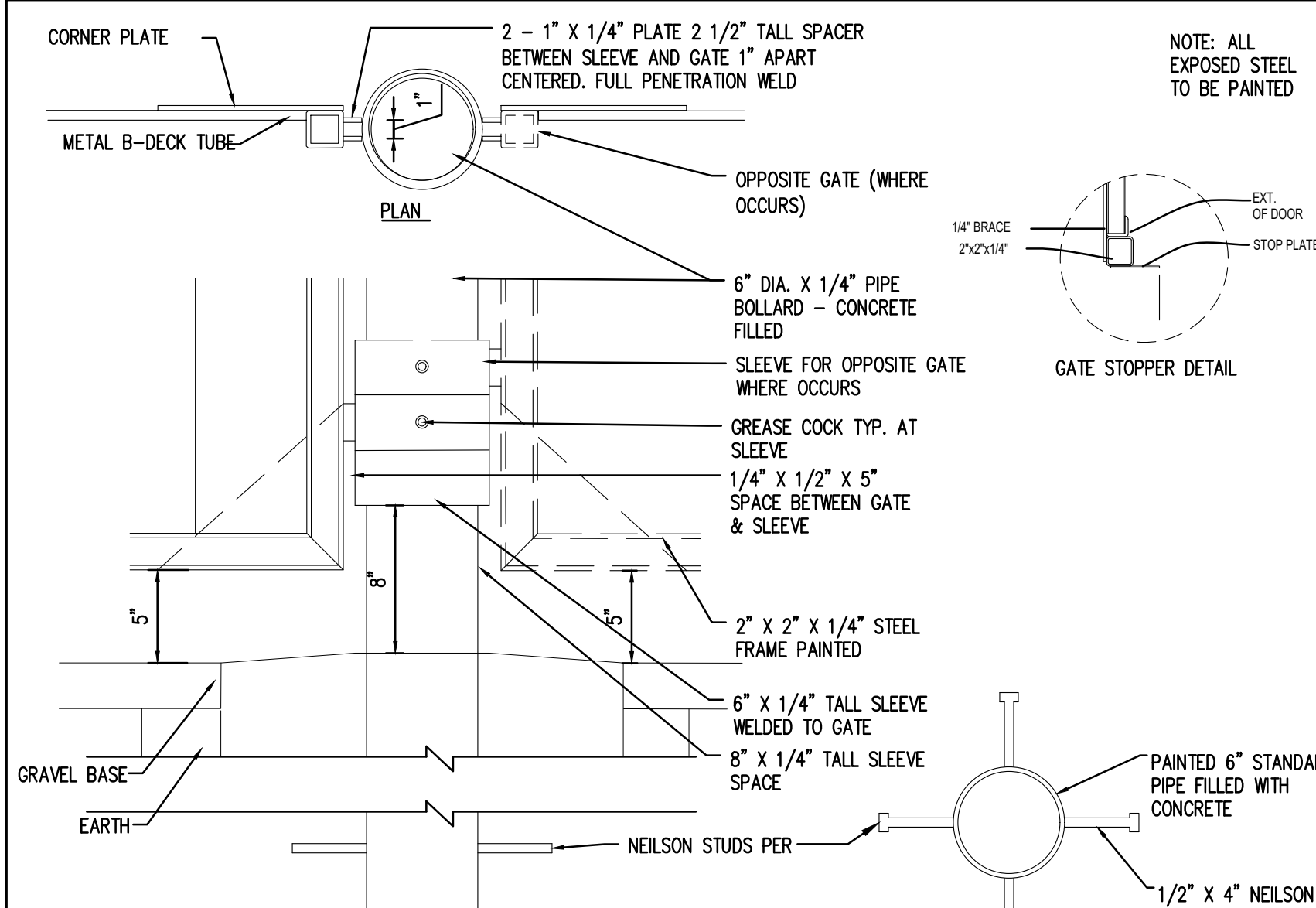
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
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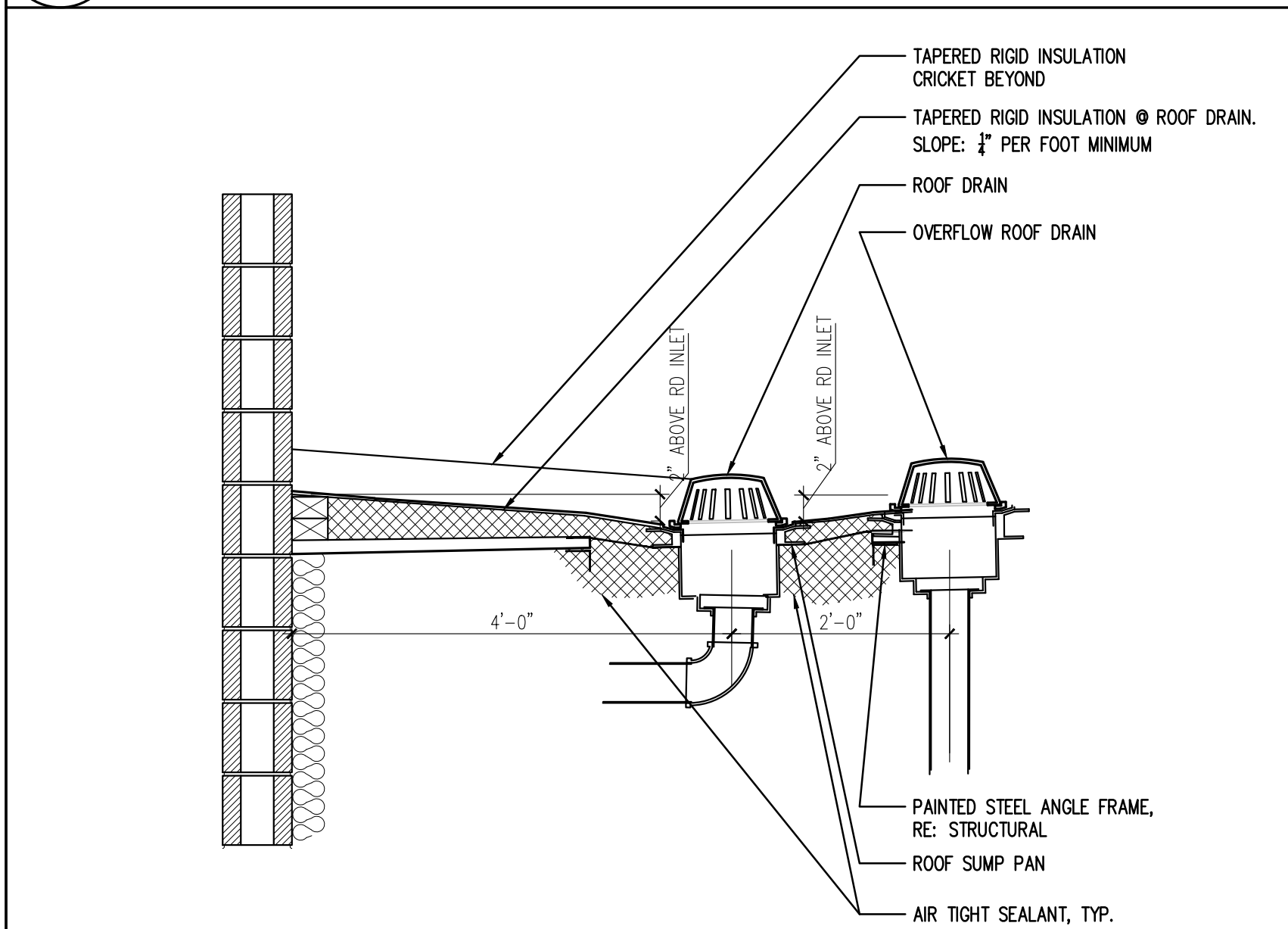
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



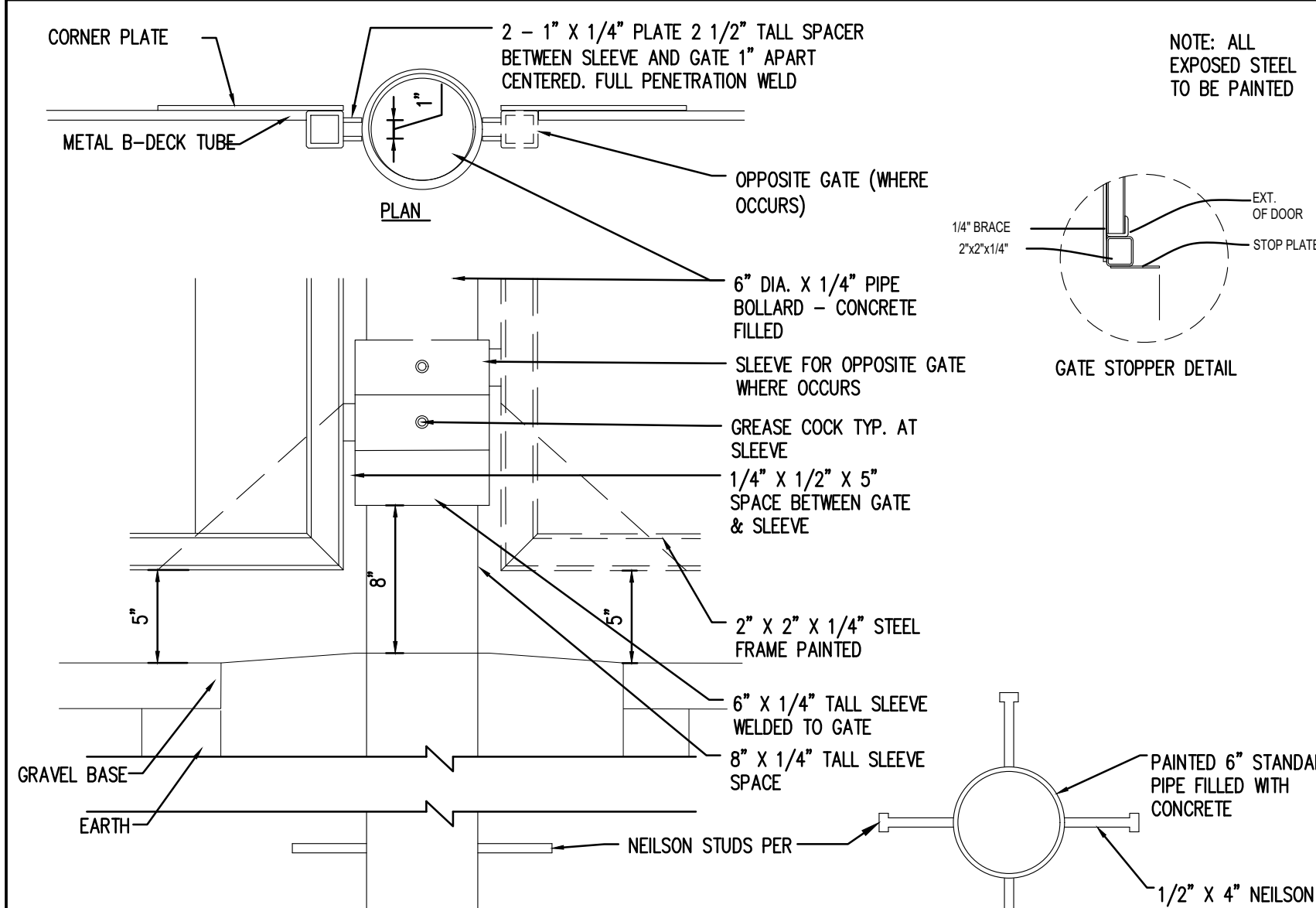
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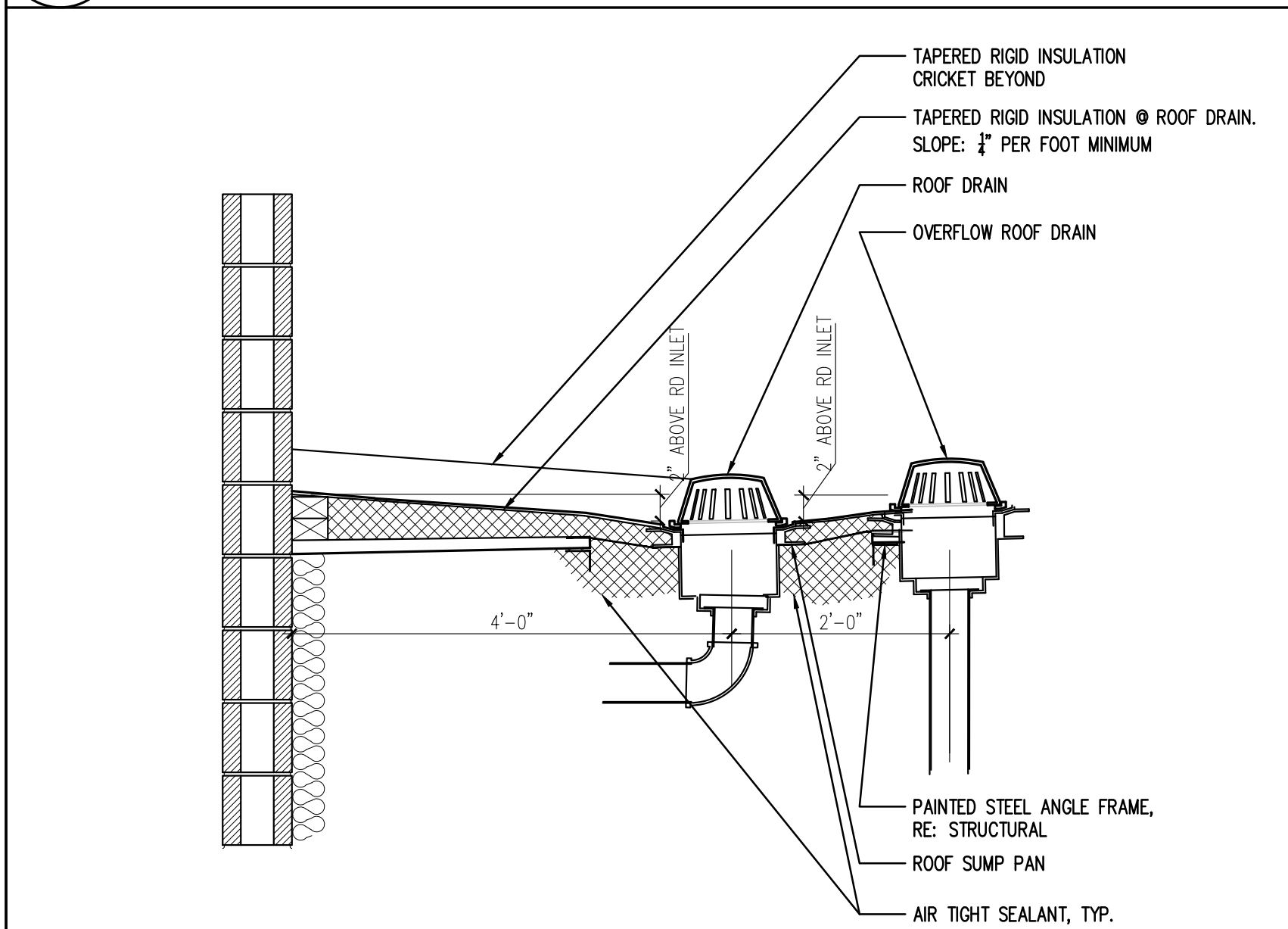
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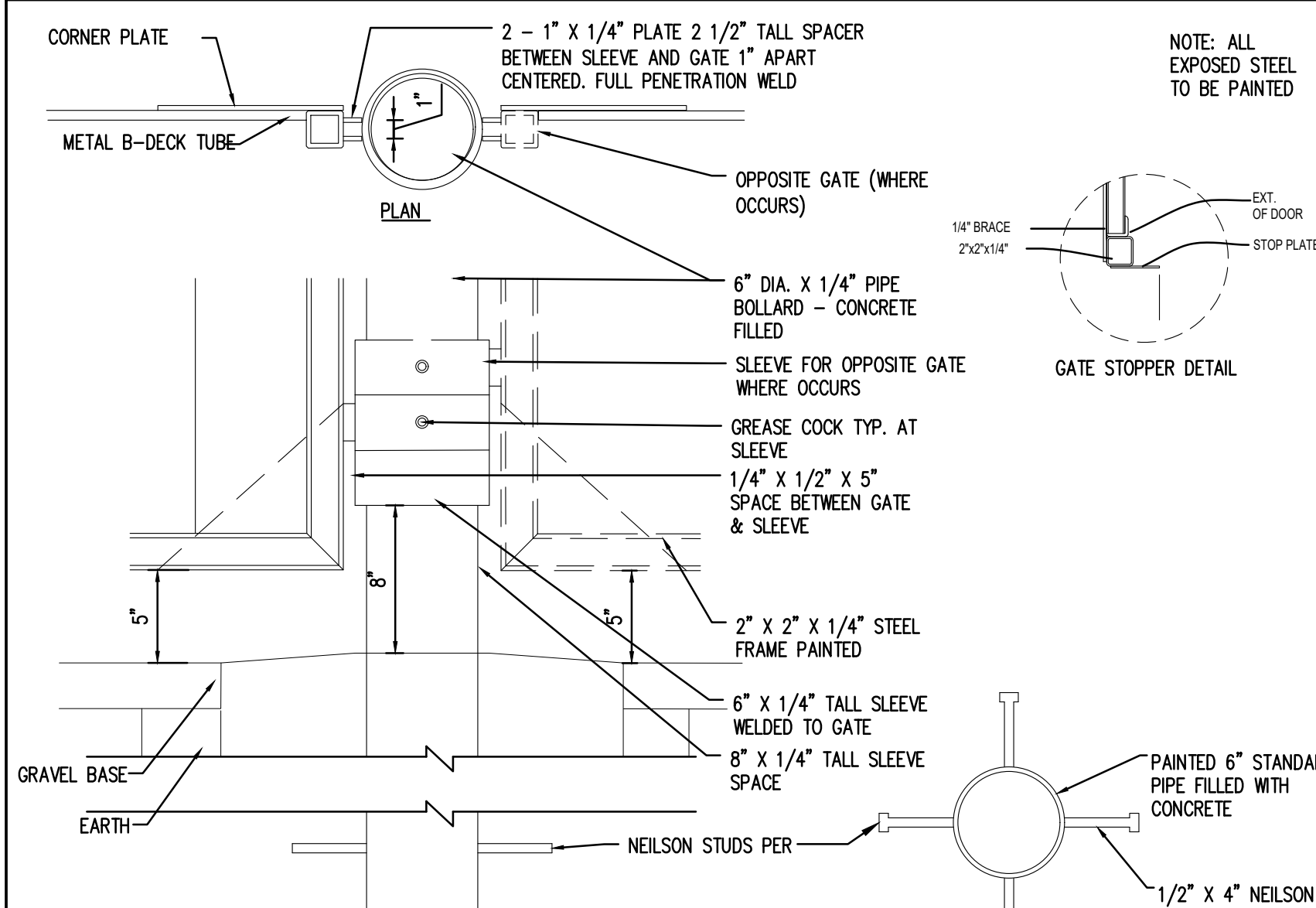
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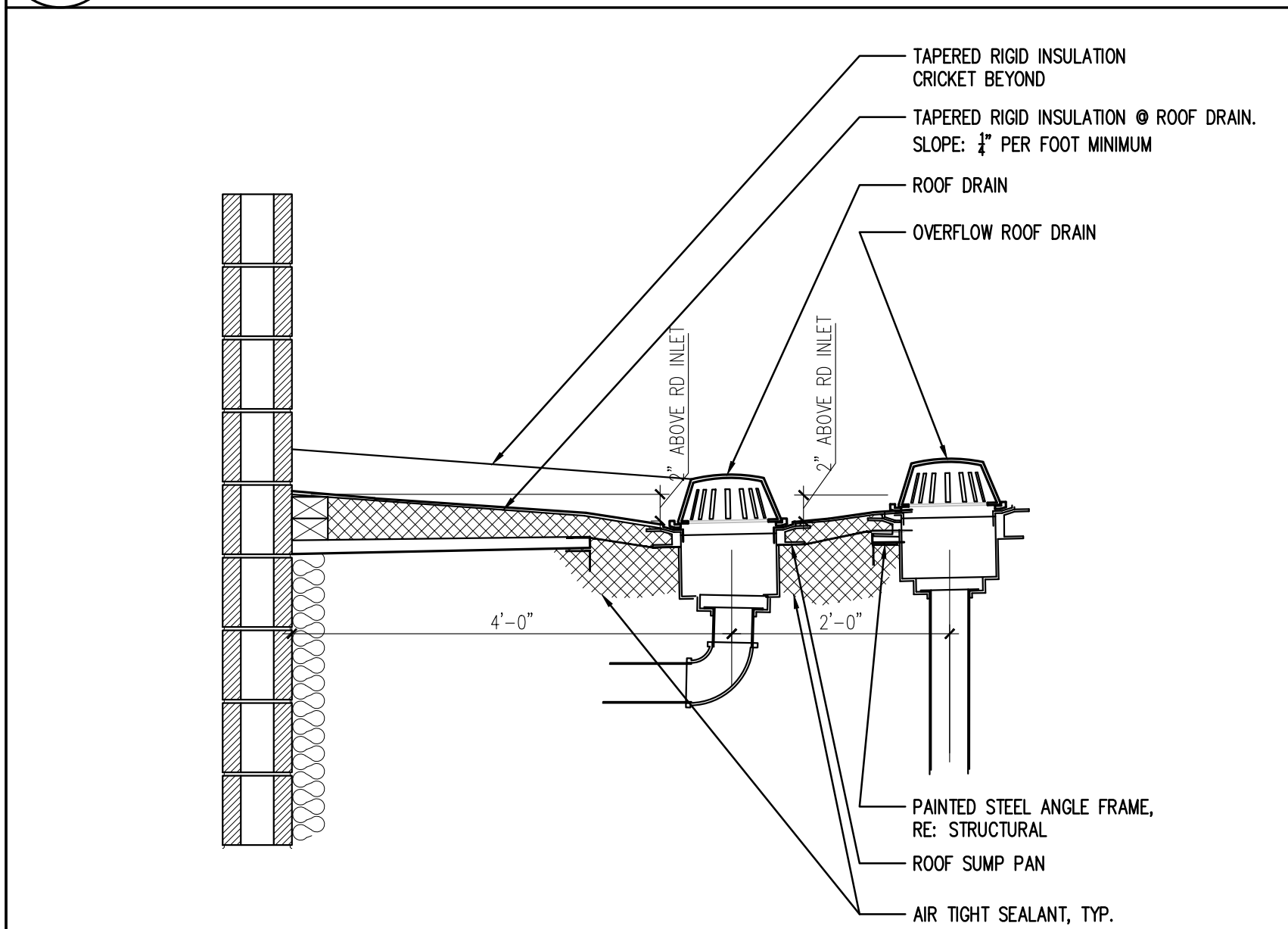
**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"



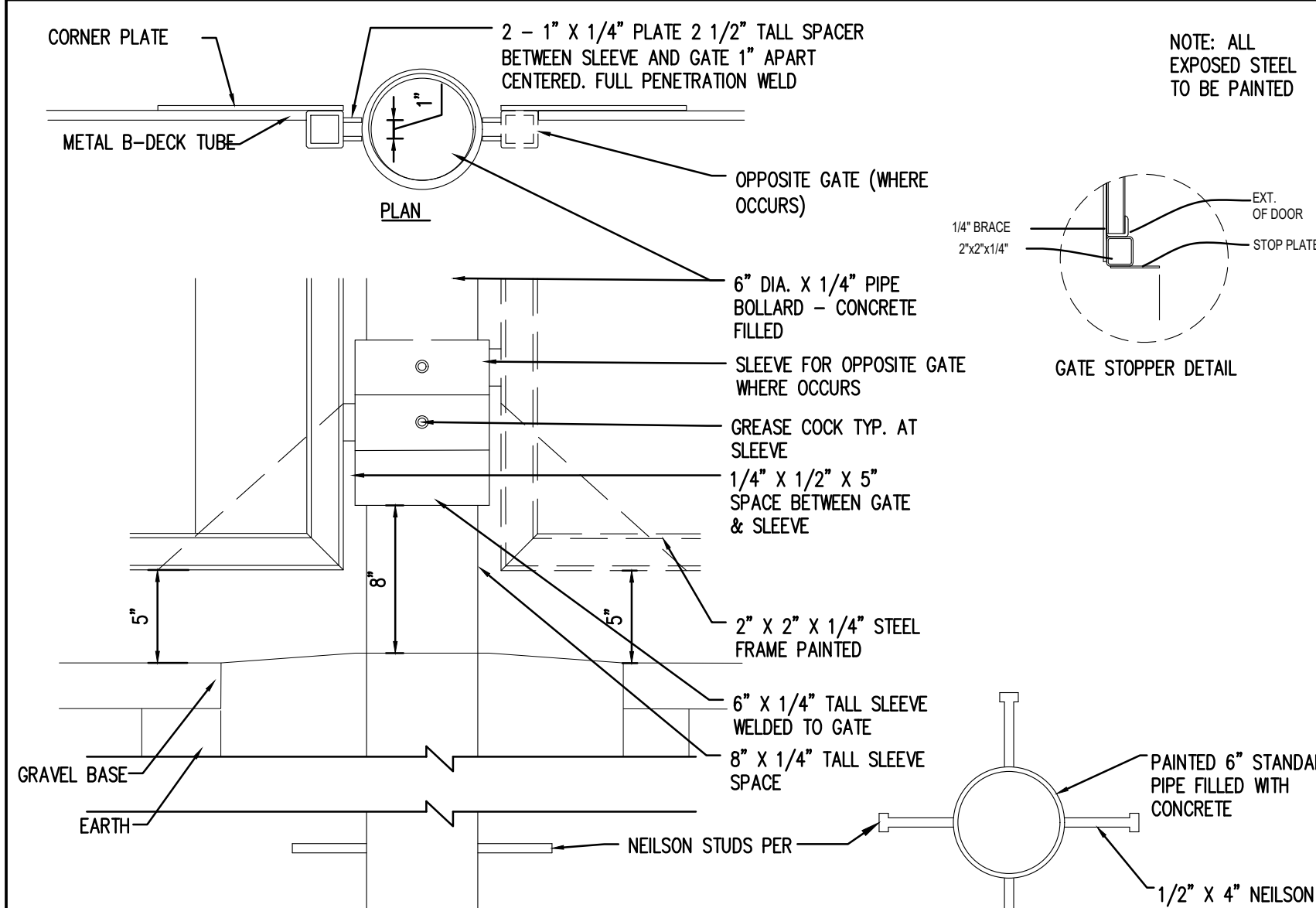
**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"



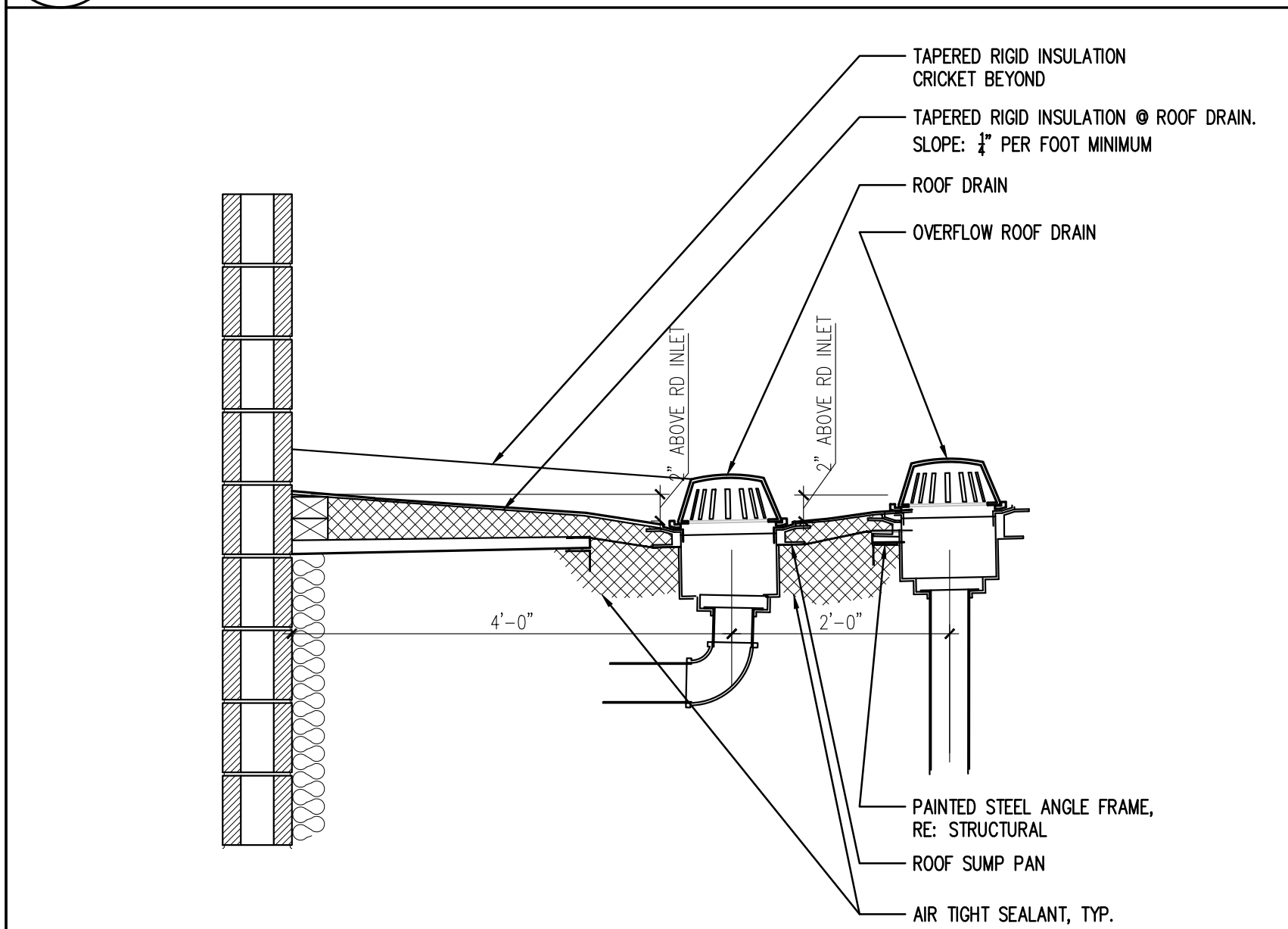
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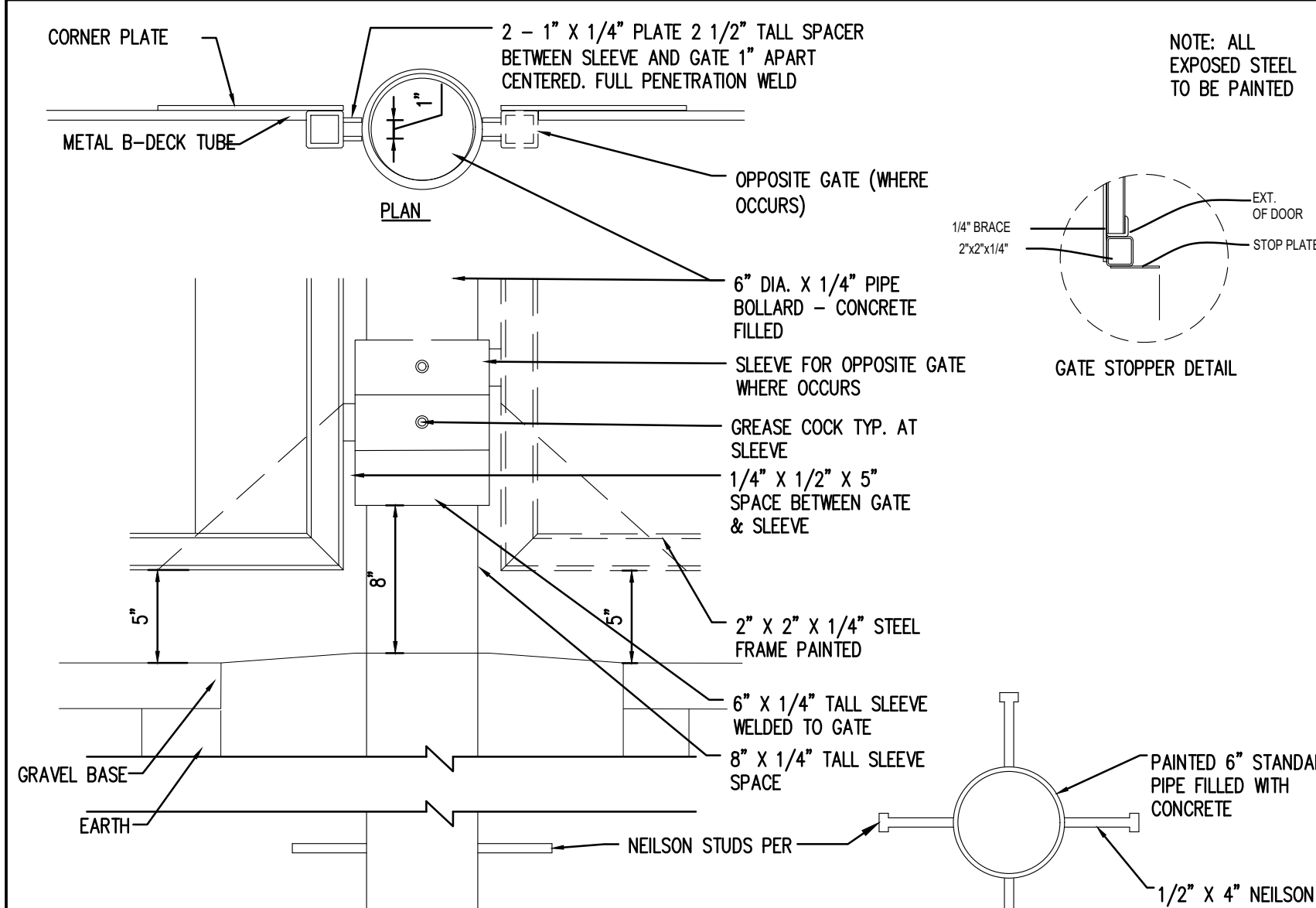
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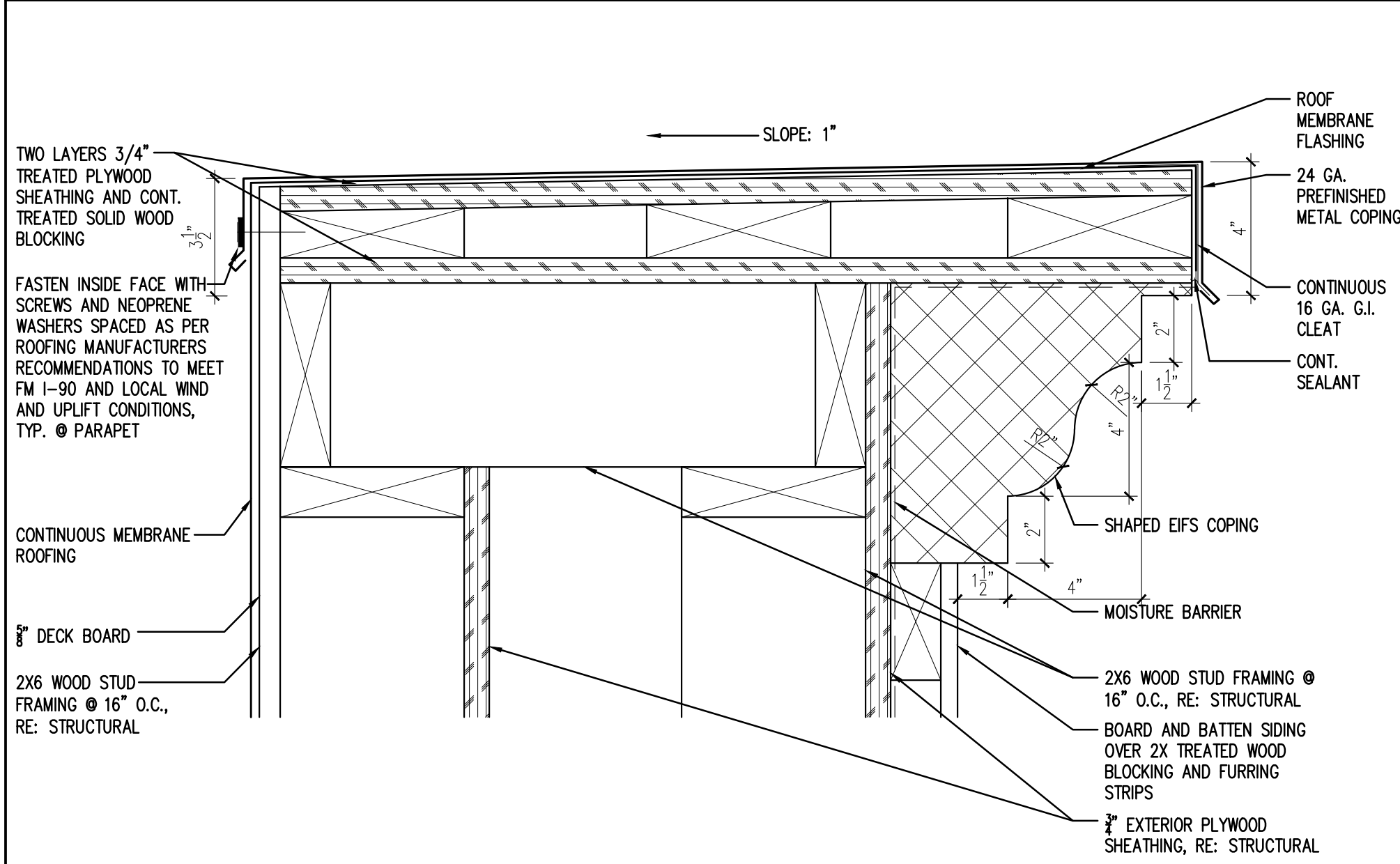


**9** DUMPSTER ENCLOSURE HINGE DETAIL  
SCALE: 1-1/2" = 1'-0"

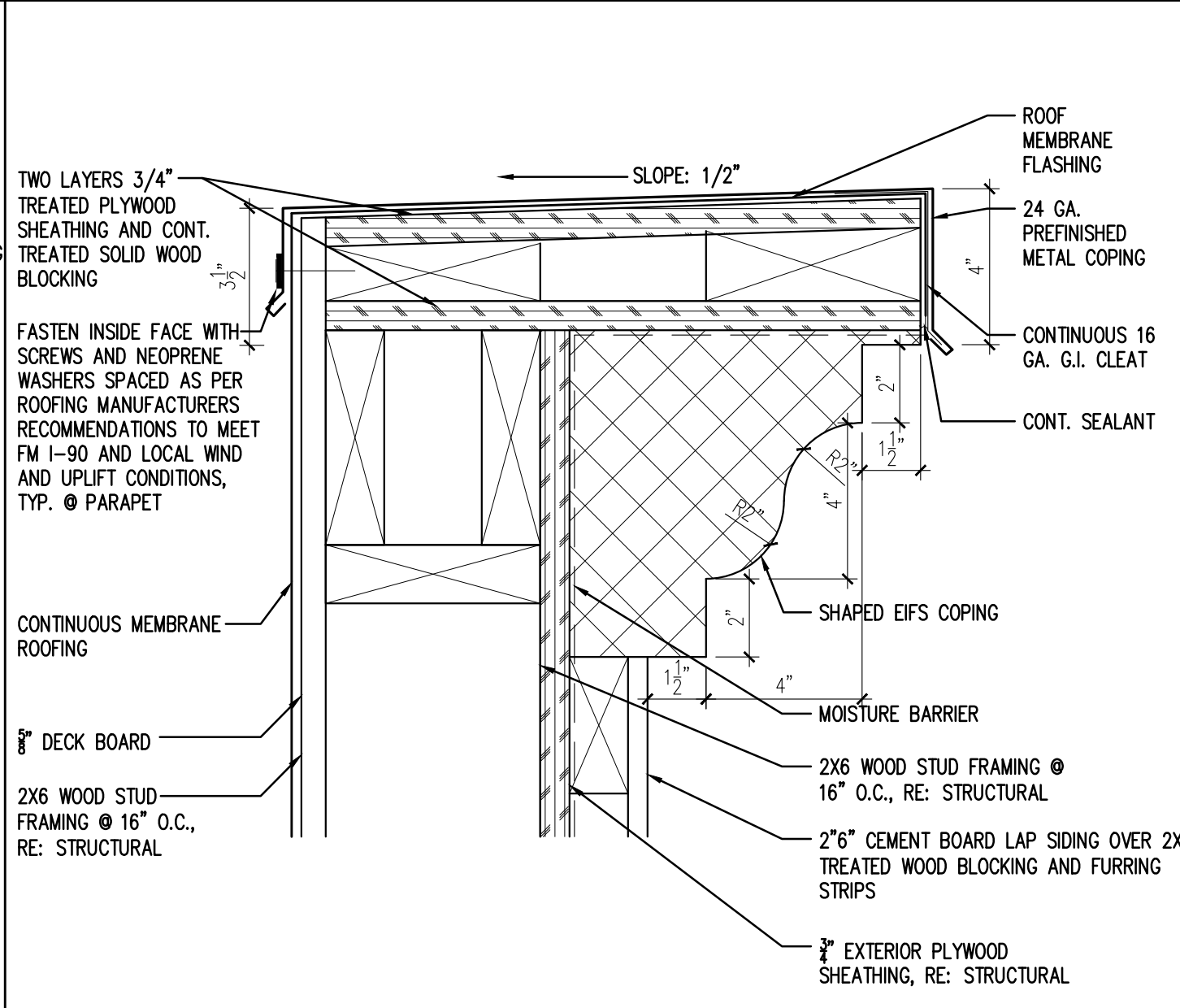


**13** ROOF DRAIN & OVERFLOW RD DETAIL  
SCALE: 3/4" = 1'-0"

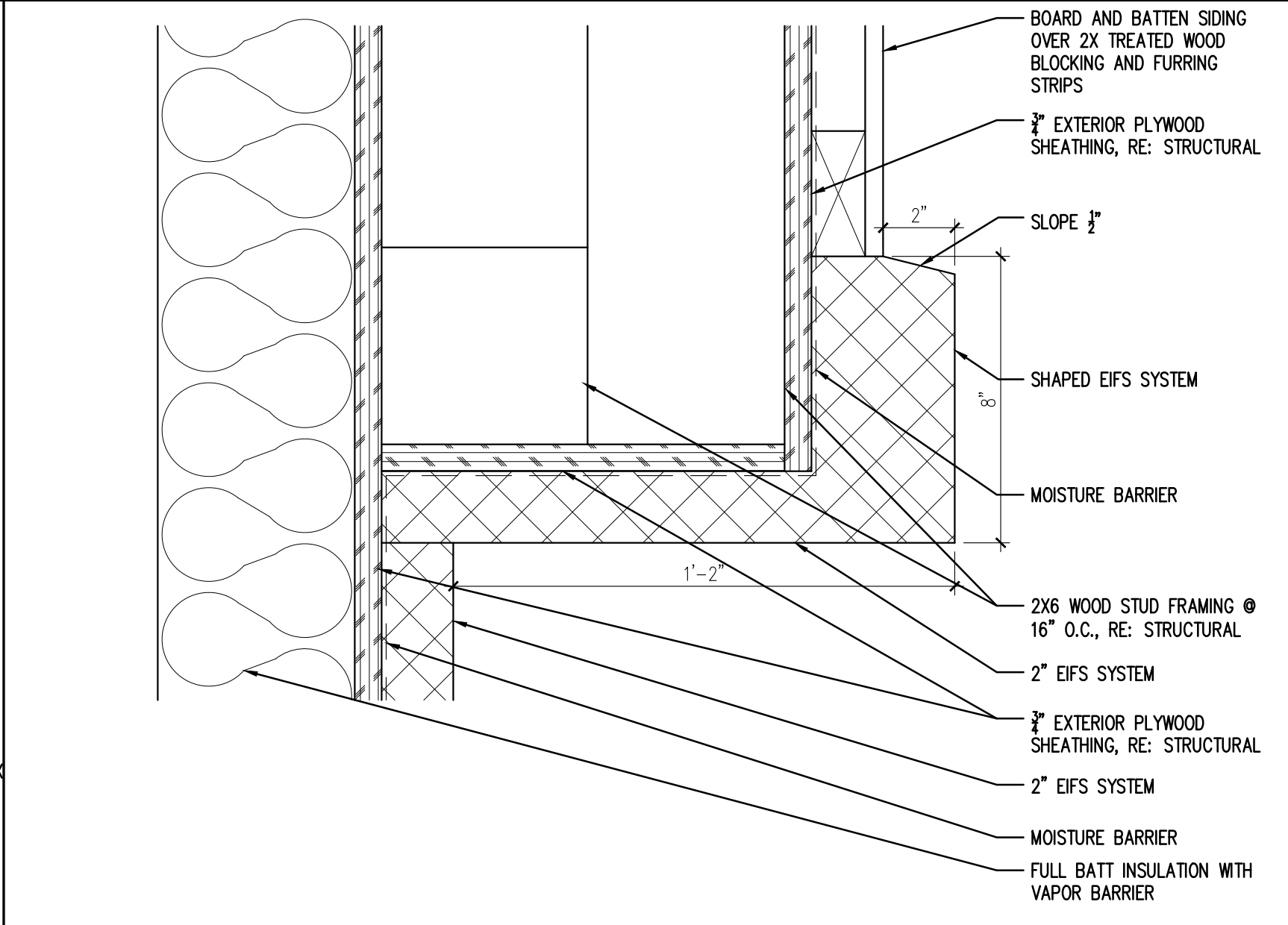




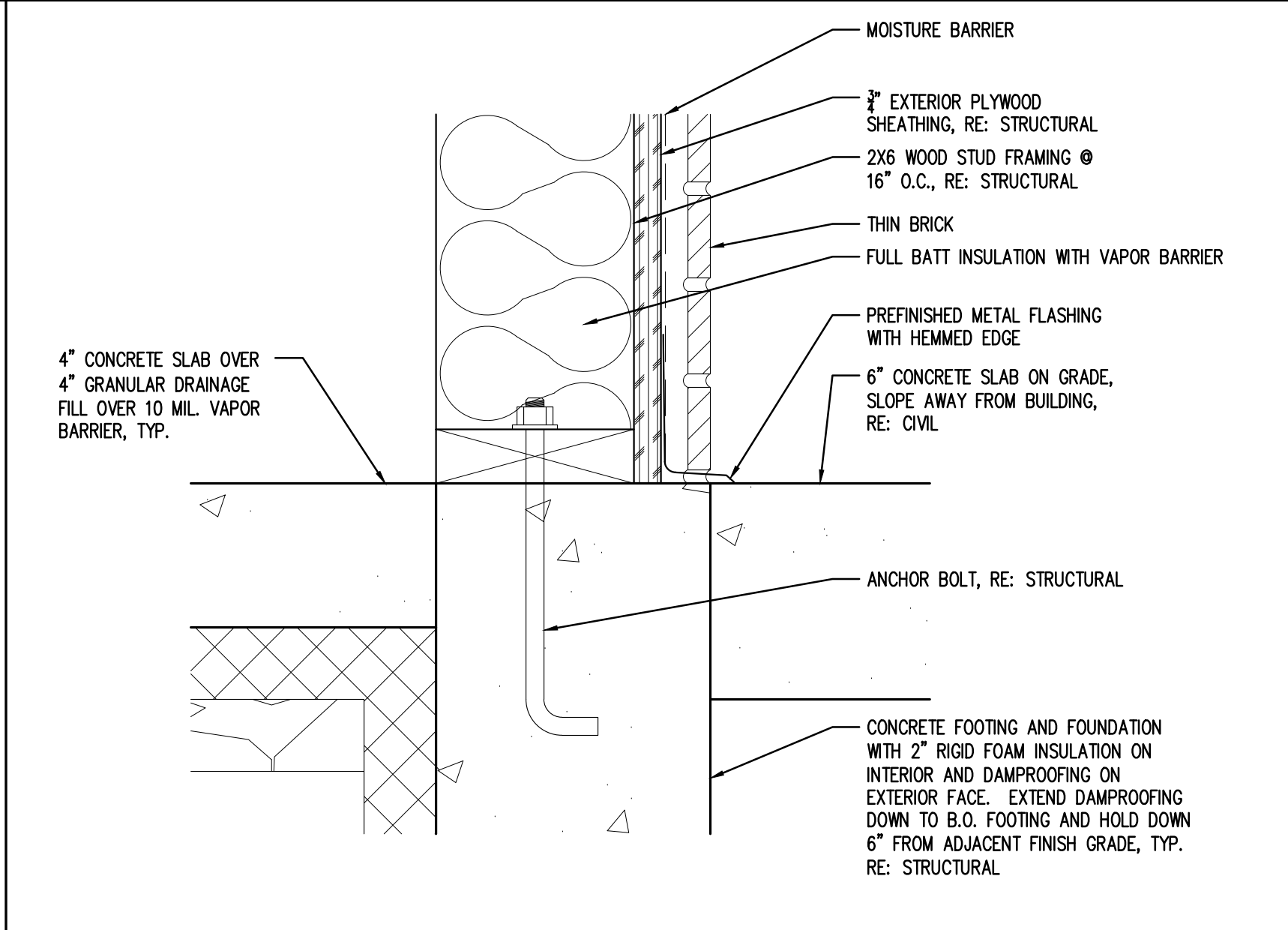
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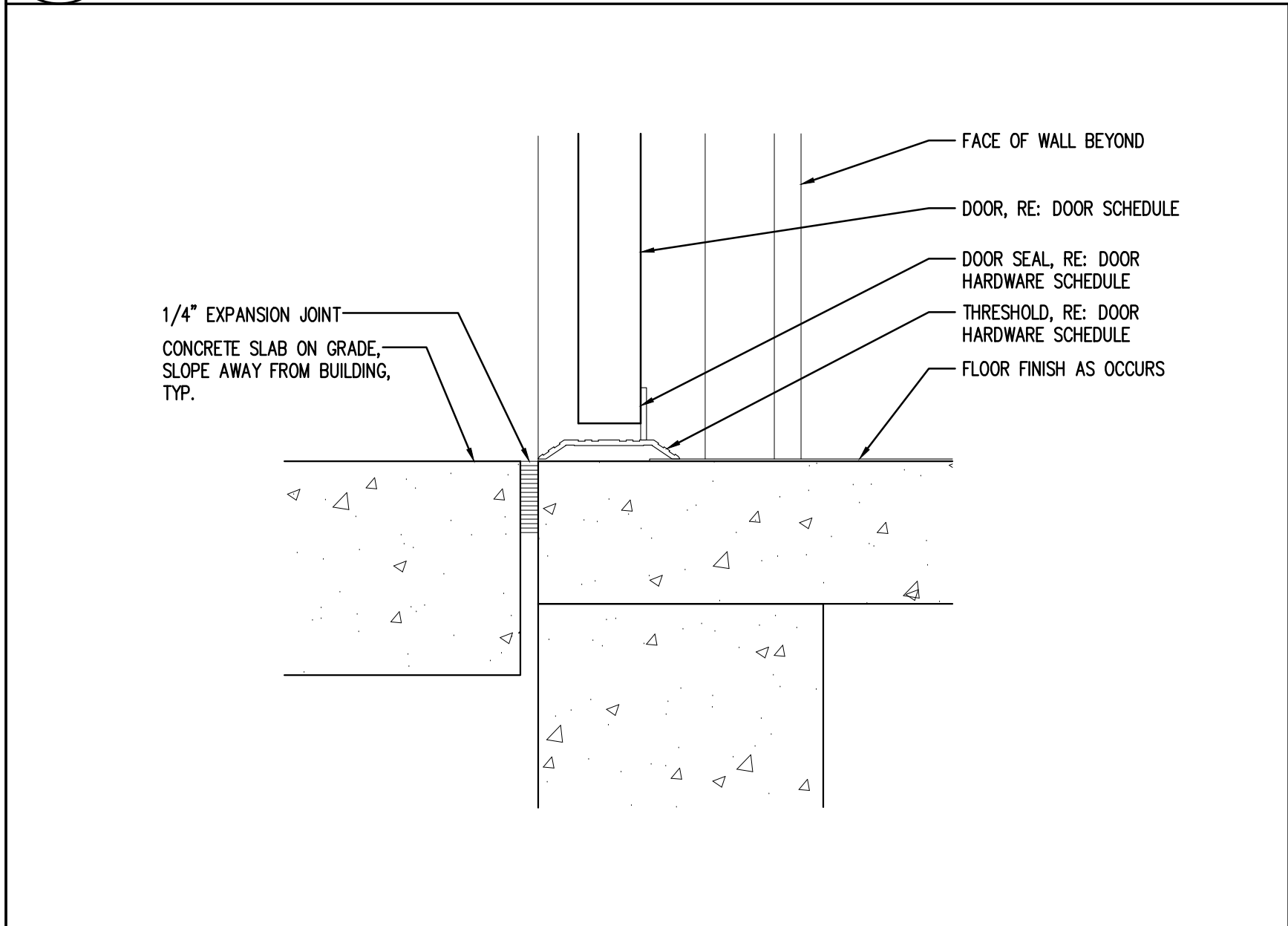
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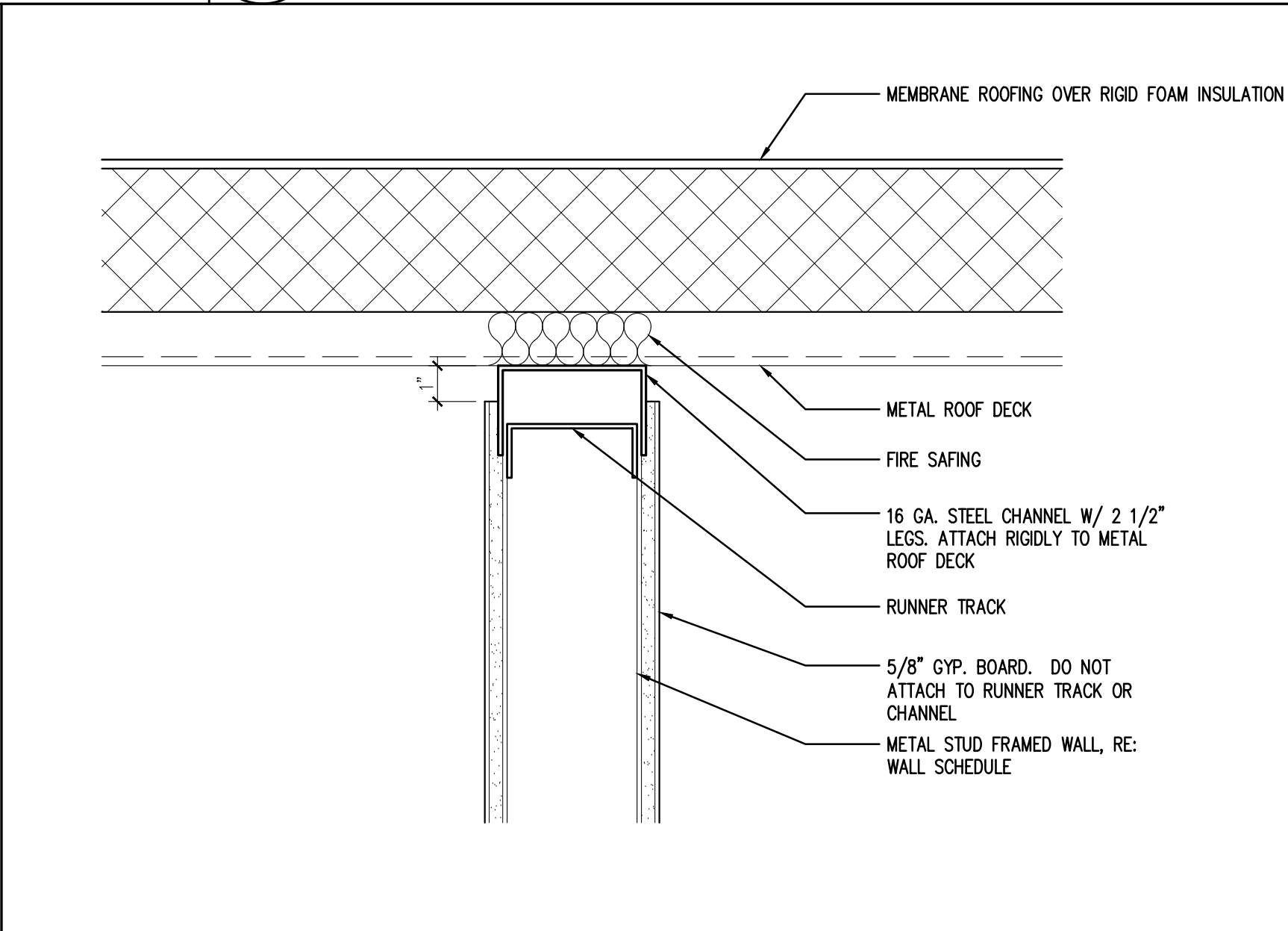
3 SECTION DETAIL  
SCALE: 3" = 1'-0"



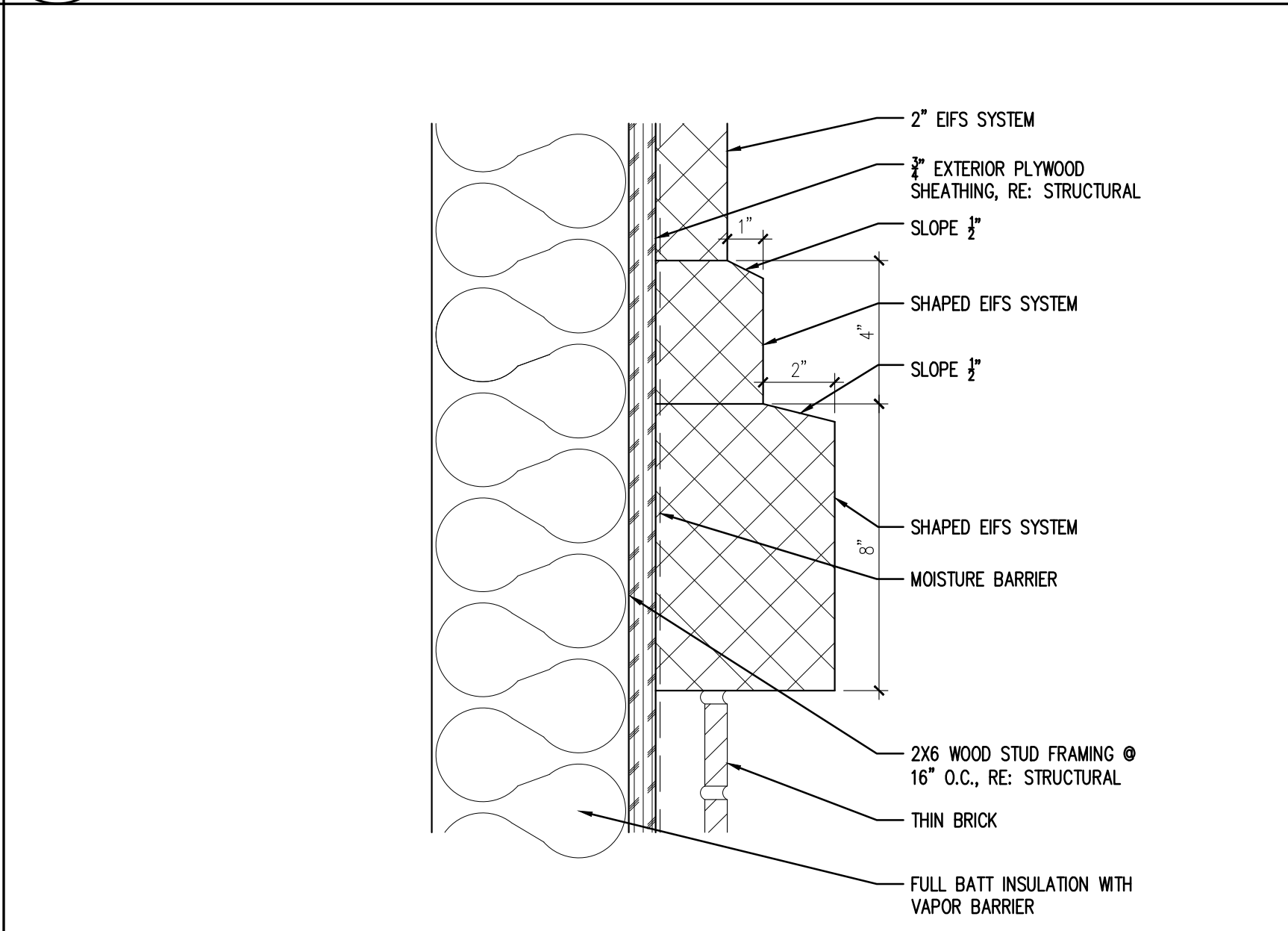
4 SECTION DETAIL  
SCALE: 3" = 1'-0"



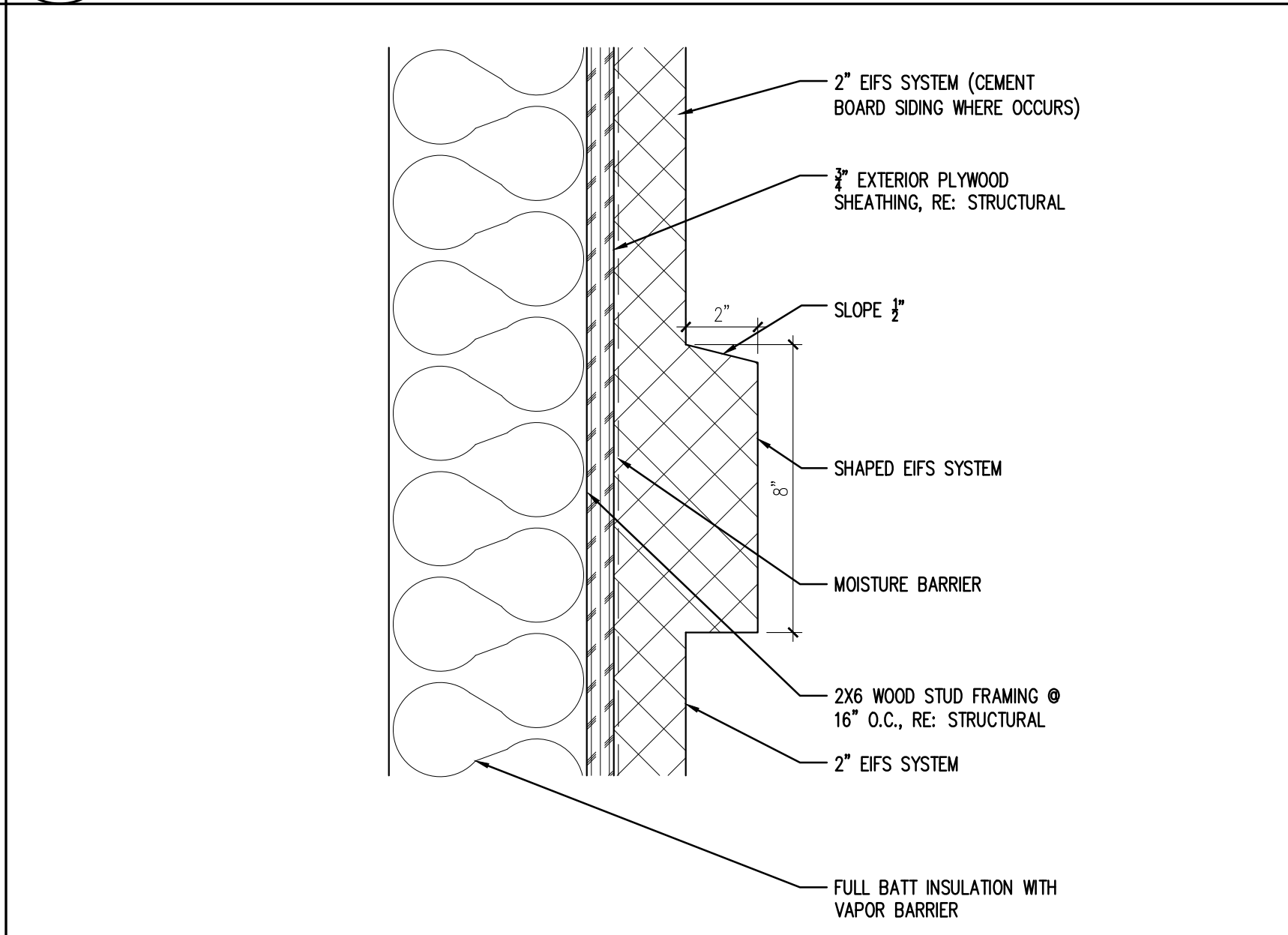
5 THRESHOLD DETAIL  
SCALE: 3" = 1'-0"



6 SLIP TRACK DETAIL  
SCALE: 3" = 1'-0"



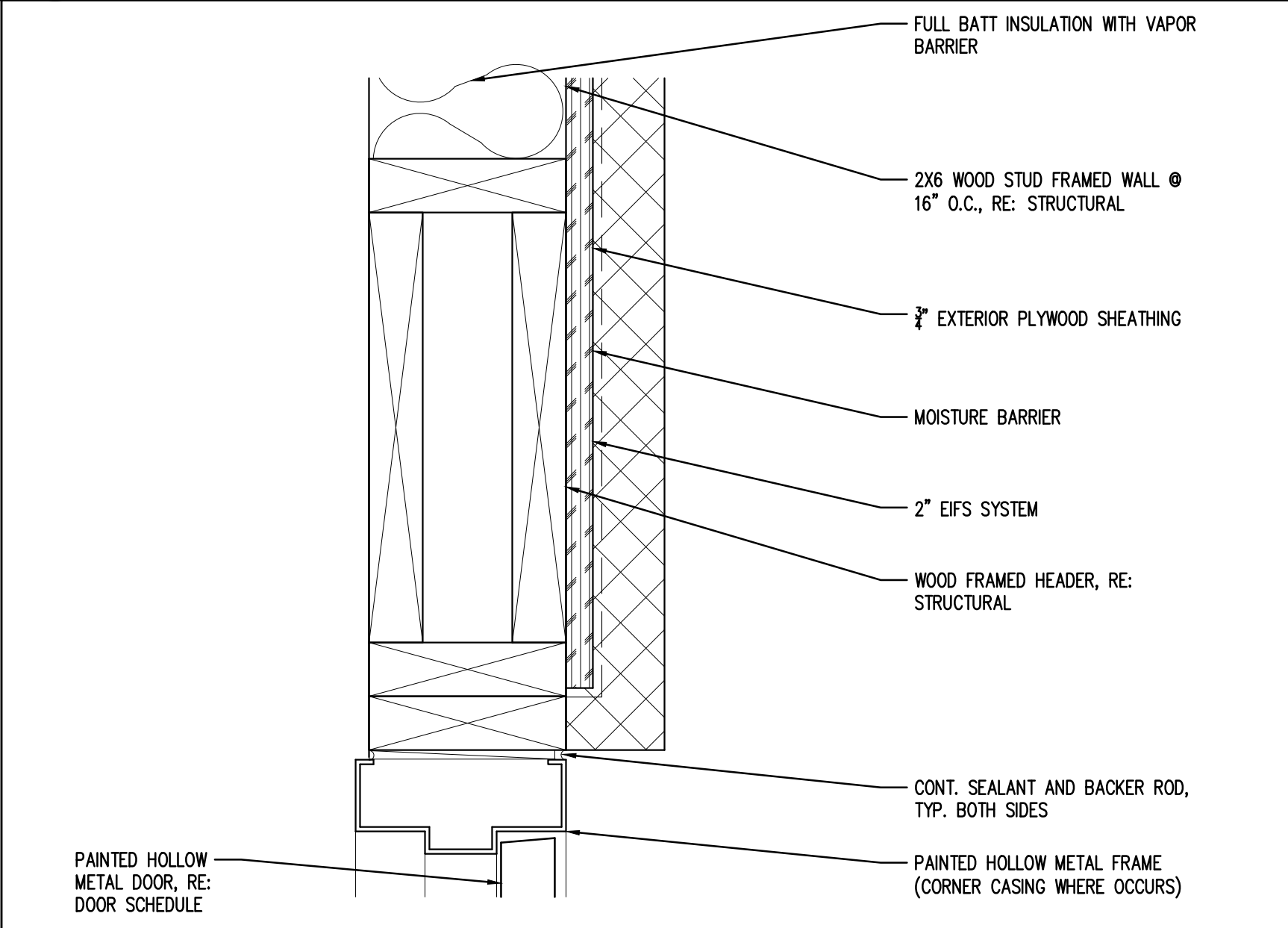
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SCALE: 3" = 1'-0"



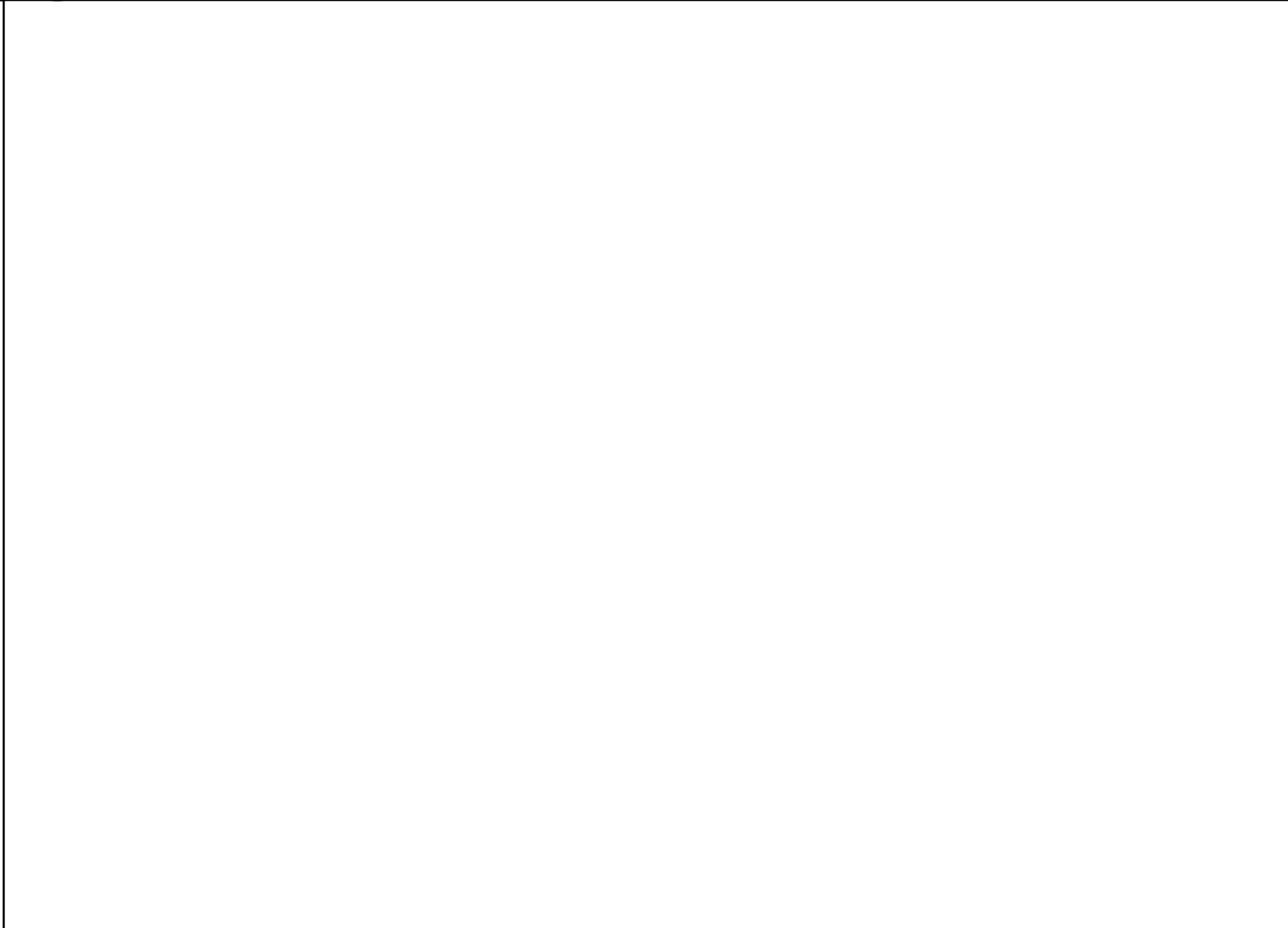
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SCALE: 3" = 1'-0"



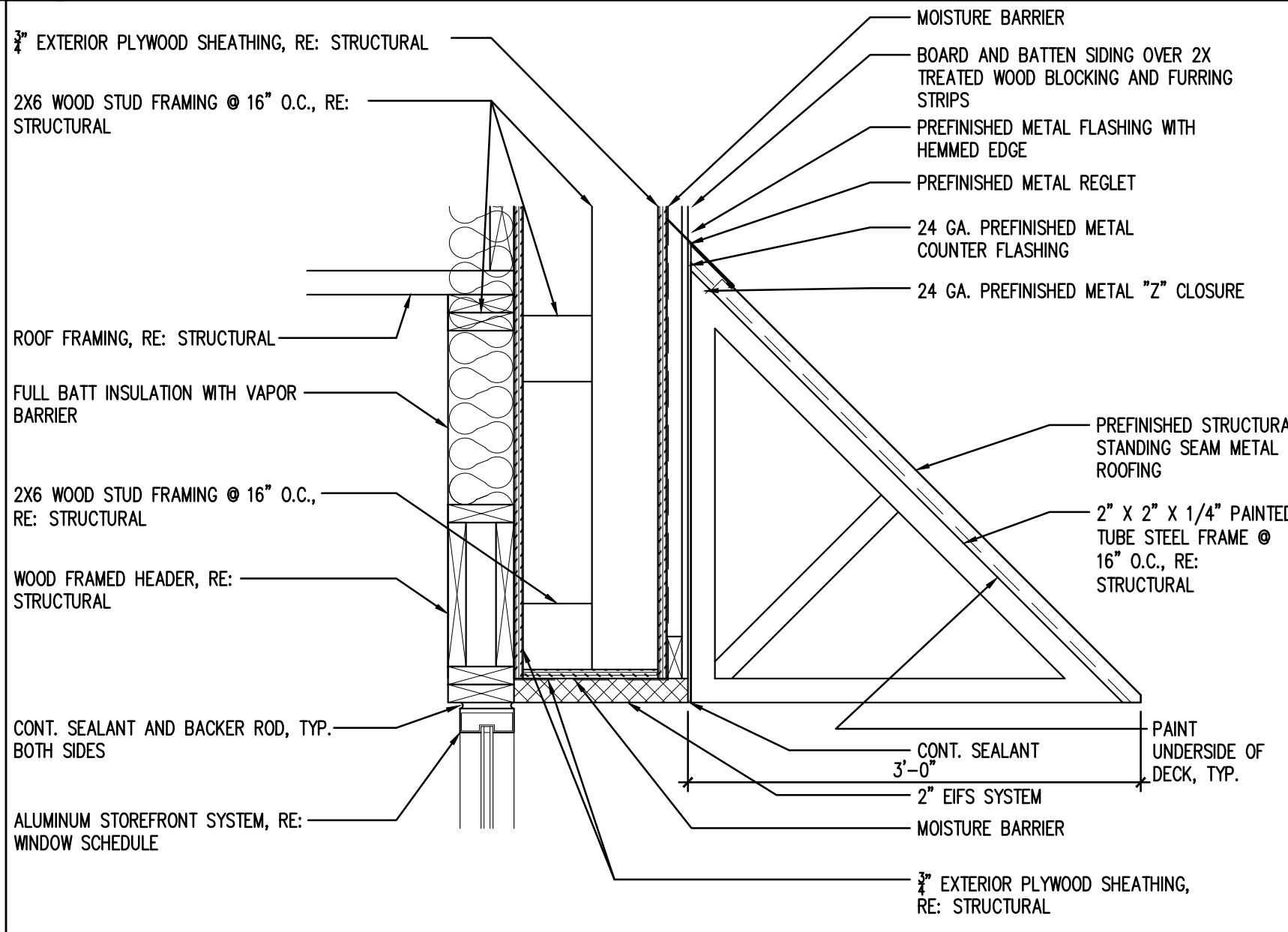
13 WINDOW JAMB DETAIL  
SCALE: 3" = 1'-0"



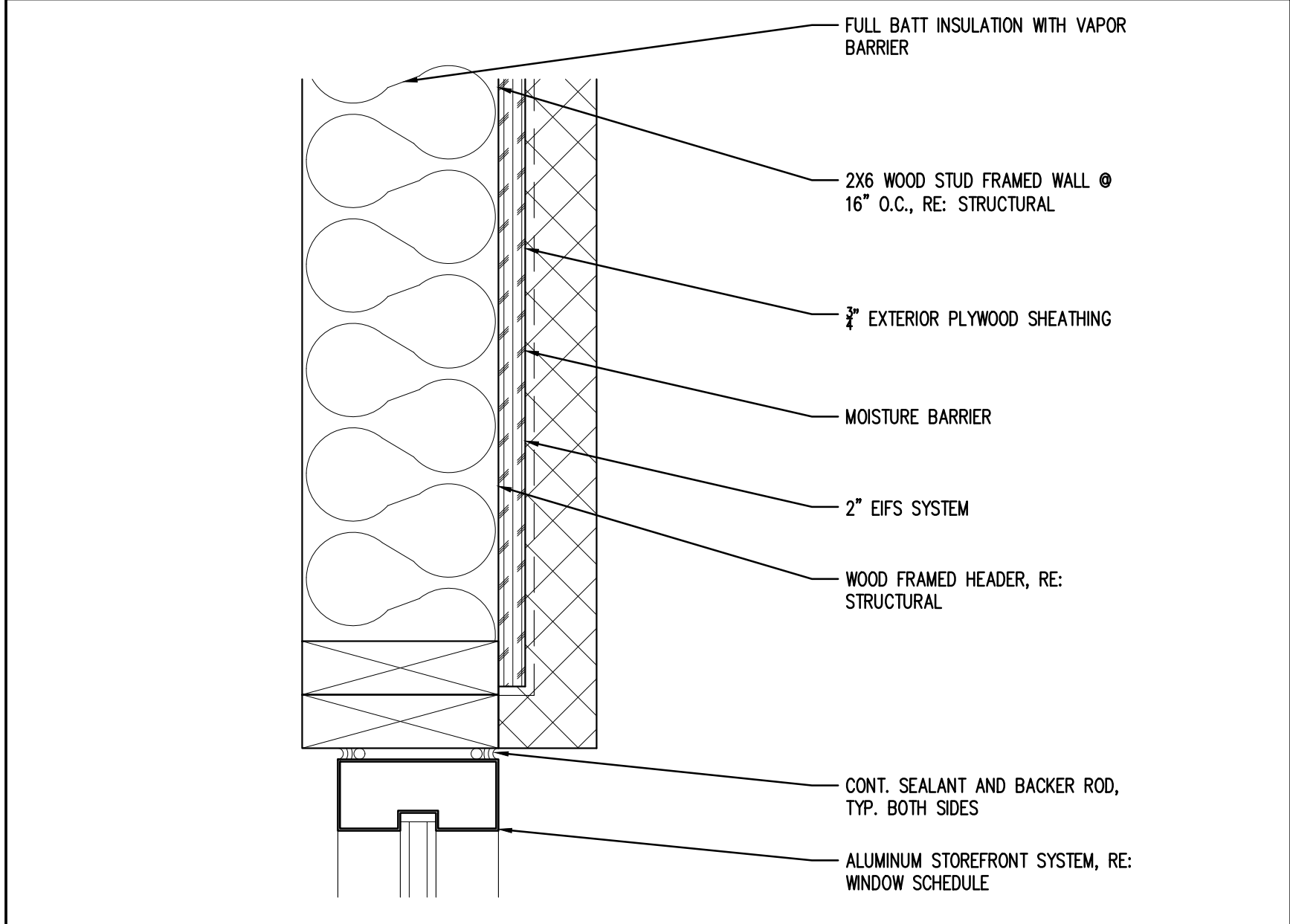
14 HM JAMB DETAIL  
SCALE: 3" = 1'-0"



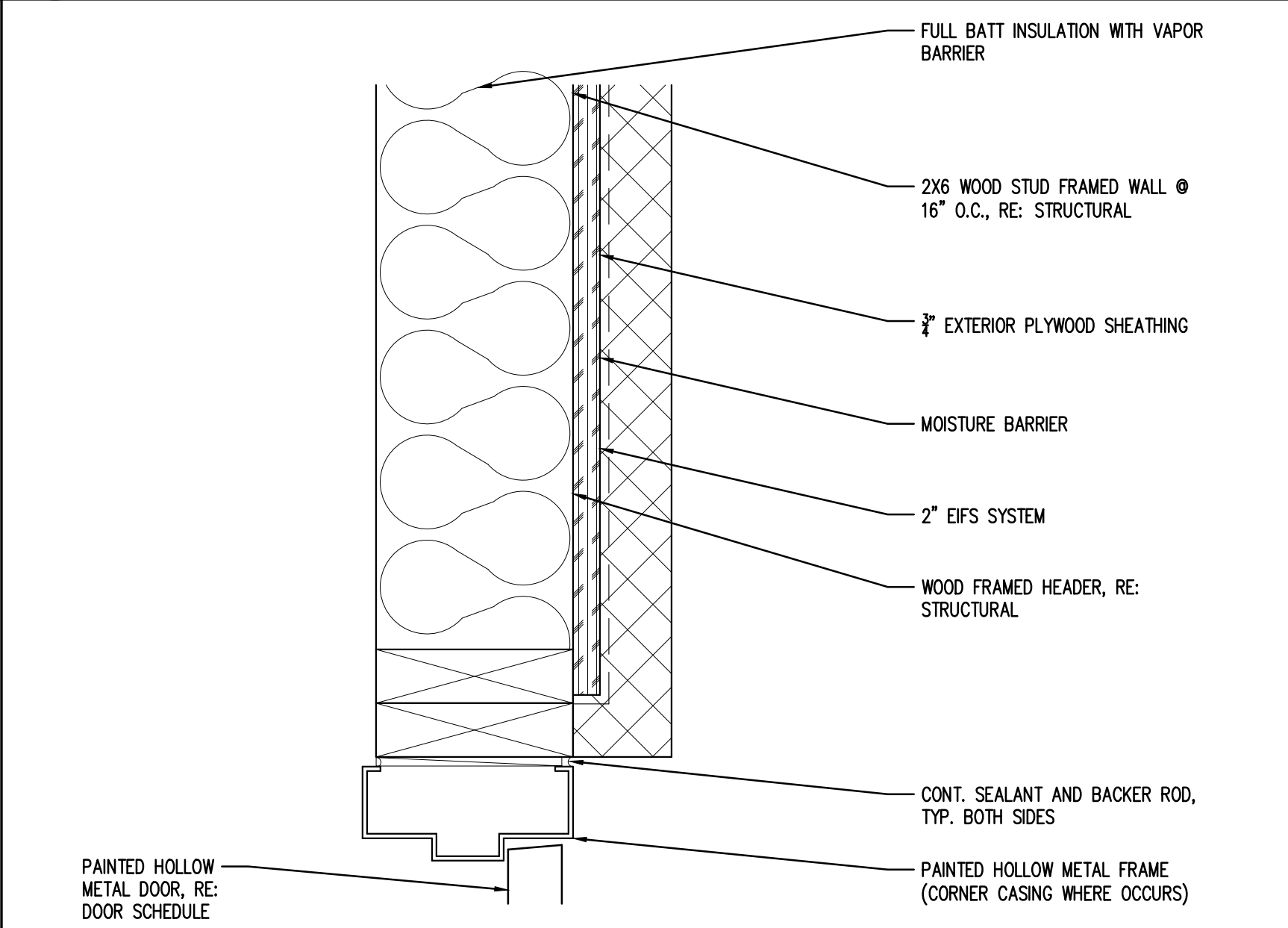
10 HM HEAD DETAIL  
SCALE: 3" = 1'-0"



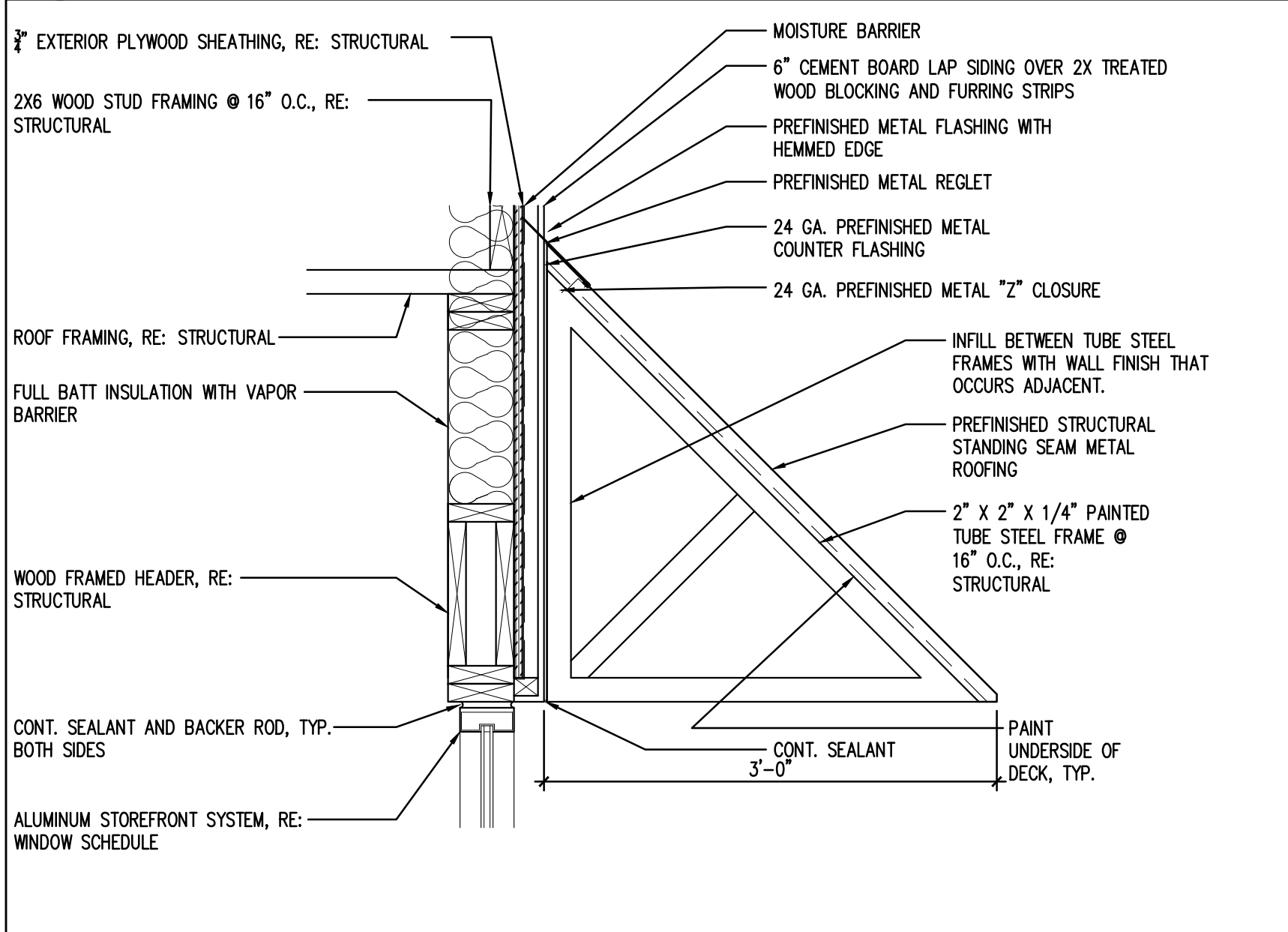
12 STANDING SEAM CANOPY  
SCALE: 1" = 1'-0"



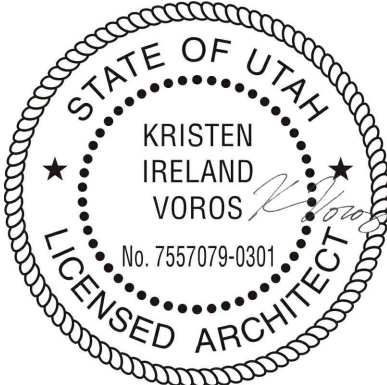
13 WINDOW JAMB DETAIL  
SCALE: 3" = 1'-0"



14 HM JAMB DETAIL  
SCALE: 3" = 1'-0"



16 STANDING SEAM CANOPY  
SCALE: 1" = 1'-0"



RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: MAY 14, 2021  
AGENCY PROJECT NO:  
DESIGN SEQUENCE PROJECT NO: 2010.01  
CAD DWG FILE NO:

DRAWN BY: KV  
DESIGNED BY: KV  
DWG TYPE:  
ARCHITECTURAL PHASE: BID SET

SHEET TITLE

DETAILS

A5.2

The image contains three architectural drawings of shop entry doors and exterior sliding windows, each with a callout box and a legend.

**Top Drawing: SHOPS ENTRY DOOR**  
 This drawing shows a shop entry door with a width of 18'-0" and a height of 10'-0". The door is divided into four panels, each containing a diamond-shaped handle. The panels are labeled with callouts 13 (AS.2) and 15 (AS.2). The door is shown in a slightly open position, revealing a sliding window mechanism. The door is labeled "SHOPS ENTRY DOOR" and "4-1/2" DARK BRONZE ANODIZED ALUMINUM".

**Bottom Left Drawing: EXTERIOR SLIDING WINDOW**  
 This drawing shows an exterior sliding window with a width of 4'-0" and a height of 6'-0". The window is divided into two panels, each containing a diamond-shaped handle. The panels are labeled with callouts 13 (AS.2) and 15 (AS.2). The window is shown in a slightly open position, revealing a sliding door mechanism. The window is labeled "EXTERIOR SLIDING WINDOW" and "4-1/2" DARK BRONZE ANODIZED ALUMINUM".

**Bottom Right Drawing: EXTERIOR WINDOW**  
 This drawing shows an exterior window with a width of 4'-0" and a height of 6'-0". The window is divided into two panels, each containing a diamond-shaped handle. The panels are labeled with callouts 13 (AS.2) and 15 (AS.2). The window is shown in a slightly open position, revealing a sliding door mechanism. The window is labeled "EXTERIOR WINDOW" and "4-1/2" DARK BRONZE ANODIZED ALUMINUM".

1. THE GLAZING CONTRACTOR SHALL BE RESPONSIBLE TO FIELD VERIFY ALL DIMENSIONS PRIOR TO PURCHASING OR FABRICATING ANY GLAZING SYSTEM COMPONENTS.

	CLEAR 1" INSULATED
	CLEAR 1" INSULATED TEMPERED
	CLEAR 1" INSULATED SPANDREL TEMPERED

Hardware Part 1 – Front Entry Double Door					
2	eo	Cont. hinge	780-1124D		Roton
1	eo	End brace	9849LN, x 697UL 26D		Von Duprin
1	eo	Stabilizer			Von Duprin
1	eo	Cosers	404XPX		LCN
1	eo	Weatherstripping			
2	eo	Door Bottom	Pemko 434 ANBL		
1	eo	Threshold			
1 Sign "This door to remain unlocked during business hours." per IBC					
Hardware Group 2 – Rear Door					
3	Each	Hinges	Hager AB750	4-1/2" x 4-1/2"	260
1	Each	Lock	Thanic Vor Duprin		628
1	Each	Hooks	CS 97 D 140 S3		Alum
1	Each	Close	LCN 404XPX		
1	Each	Threshold	Pemko		
1	Each	Door Bottom/Pemko		368 CN	
1	Each	Weatherstrip/Pemko		303 A	
1	Each	Peephole			
3	Each	Silencers			
Hardware Group 3 – Fire Riser Door					
3	Each	Hinges	Hager AB750	5" x 5"	260
1	Each	Lock	Best 93K 7 D 140 S3		628
1	Each	Close	LCN 404XPX		
1	Each	Threshold/Pemko	170 A		
1	Each	Door Bottom/Pemko		368 CN	
1	Each	Weatherstrip/Pemko		303 A	
1	Each	Silencers			

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350 SOUTH 200 EAST, #106  
SALT LAKE CITY, UTAH 84111  
P: 801.596.0691  
DESIGNUTAH.COM



SANTAQUIN, UTAH

[illegible]

DATE: MAY 14, 2021

AGENCY PROJECT NO:

DESIGN SEQUENCE PROJECT NO:	2010.01
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CAD DWG FILE NO:

DRAWN BY	KM
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DRAWN BY:	KV
DESIGNED BY:	KV

DESIGNED BY:	RV
DWG TYPE:	

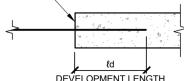
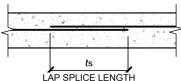
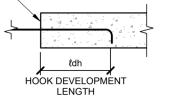
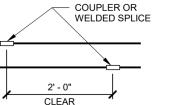
ARCHITECTURAL PHASE:

	BID SET
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SHEET TITLE
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## A6.1



<div> <div>2018 IBC CONCRETE REBAR LAP SPlice SCHEDULE</div> <div>FOR CONCRETE APPLICATIONS (ACI 318 - 14)</div> </div>																													
<div> <div> <div> <div>FACE OF JOINT OR CRITICAL SECTION</div>  <div>DEVELOPMENT LENGTH</div> </div> <div> <div>FACE OF JOINT OR CRITICAL SECTION</div>  <div>LAP SPlice LENGTH</div> </div> <div> <div>FACE OF JOINT OR CRITICAL SECTION</div>  <div>HOOK DEVELOPMENT LENGTH</div> </div> <div> <div>COUPLER OR WELDED SPlice</div>  <div>2'-0" CLEAR</div> </div> </div> </div>																													
BAR LOCATION	CONCRETE REINFORCING & SPlice LENGTHS (IN)																												
	CONCRETE		BAR SIZE																										
	TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11		COMMENTS								
			ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh	ld	ts	ldh
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	81	17	69	90	19	76	99	30
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62	81	17	69	90	19	76	99	30
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	8	22	29	11	28	36	14	33	43	16	48	62	19	55	72	22	62	81	25	69	90	27	76	99	30
FOOTING BOTTOM BARS	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	29	38	13	33	43	15	37	48	17	42	55	19	46	60	30
BEAM TOP BARS	NWC	3000 PSI	22	29	8	29	38	11	36	47	14	43	56	16	63	82	19	72	94	22	81	105	25	90	117	27	98	127	30
SLAB ON GRADE	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	32	42	13	42	55	15	53	69	17	69	90	19	76	99	30
BAR LOCATION	CONCRETE REINFORCING & SPlice LENGTHS (IN)																												
	CONCRETE		BAR SIZE																										
	TYPE	STRENGTH	#3		#4		#5		#6		#7		#8		#9		#10		#11		COMMENTS								

SPECIAL INSPECTION SCHEDULE 1.2					
ESTABLISHED PER 2018 IBC SECTION 110 AND CHAPTER 17					
ITEM	CONTINUOUS <sup>3</sup>	PERIODIC <sup>2</sup>	REFERENCE	COMMENTS	
<b>PRE-FAB CONSTRUCTION (IBC 1704.2)</b>			REFERENCE NOTES P1 & P2	P1.	SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. PROVIDED THE FABRICATOR COMPLIES WITH IBC.
				P2.	SPECIAL INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2).
<b>CONCRETE CONSTRUCTION (IBC 1705.3)</b>			SEE IBC TABLE 1705.3- REF. NOTE C1	C1.	SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET.
REINFORCING STEEL PLACEMENT	●	●		C2.	PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES. BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE.
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	C3.	PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST.
EMBEDDED BOLTS & PLATES	●	●		C4.	PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR TO TENSIONING TENDONS OR REMOVING SHORING.
VERIFYING REQUIRED DESIGN MIX	●	●		C5.	EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT.
CONCRETE PLACEMENT / SAMPLING	●	●	REFERENCE NOTE C3		
CURING TEMPERATURE / TECHNIQUES	●	●			
PRESTRESSED CONCRETE	●	●			
APPLICATION OF PRESTRESSING FORCES	●	●			
GROUTING BONDED TENDONS	●	●	IN SEISMIC-FORCE-RESISTING SYSTEM		
ERECTION OF PRECAST MEMBERS	●	●			
VERIFICATION OF IN-SITU STRENGTH	●	●	REFERENCE NOTE C4		
EPOXY / EXPANSION ANCHOR PLACEMENT	●	●	REFERENCE NOTE C5		
<b>WOOD (IBC 1705.5 &amp; 1705.11.1 &amp; 1705.12.2)</b>				W1.	WOOD STRUCTURAL PANEL SHEATHING SHALL BE INSPECTED TO ASCERTAIN THAT GRADE AND THICKNESS ARE IN COMPLIANCE WITH APPROVED BUILDING PLANS. NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES. THE NAIL OR STAPLE DIAMETER AND LENGTH, THE NUMBER OF FASTENER LINES, AND SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS SHALL ALSO BE INSPECTED AND VERIFIED FOR COMPLIANCE WITH APPROVED BUILDING PLANS.
HIGH LOAD DIAPHRAGMS (ROOF / FLOOR)	●	●	REFERENCE NOTE W1	W2.	SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, WOOD DIAPHRAGMS, INCLUDING NAILING, & BOLTING, AND OTHER FASTENING TO OTHER COMPONENTS WHERE THE SPACING OF THE SHEATHING FASTENERS IS GREATER THAN 4"x6".
SITE-BUILT ASSEMBLIES	●	●		W3.	SPECIAL INSPECTION SHALL BE PERFORMED TO VERIFY THAT THE INSTALLATION OF TEMPORARY AND PERMANENT RESTRAINT BRACING IS INSTALLED IN ACCORDANCE WITH THE APPROVED TRUSS SUBMITTAL PACKAGE.
SHEAR WALL & DIAPHRAGM NAILING	●	●	REFERENCE NOTE W2		
DRAG STRUTS	●	●			
BRACES & SHEAR PANELS	●	●			
HOLLOWDOGS	●	●			
GLUING OPERATIONS	●	●			
METAL-PLATE-CONNECTED WOOD TRUSSES WITH HEIGHTS GREATER THAN OR EQUAL TO 60"	●	●	REFERENCE NOTE W2		
METAL-PLATE-CONNECTED WOOD TRUSSES WITH SPANS GREATER THAN OR EQUAL TO 60 FEET	●	●	REFERENCE NOTE W3		
<b>SOILS (IBC 1705.6)</b>			REFERENCE NOTE F1	F1.	SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE.
VERIFY ADEQUATE MATERIALS BELOW FOOTINGS	●	●	REFERENCE NOTE F1	F2.	IF THERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557.
EXCAVATIONS EXTEND TO PROPER DEPTH AND REACH PROPER MATERIAL	●	●	REFERENCE NOTE F2		
CLASSIFY & TEST CONTROLLED FILL MATERIALS	●	●	REFERENCE NOTE F2		
PERFORM MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL.	●	●	REFERENCE NOTE F1		
PROPERLY PREPARED SITE AND SUB-GRADE PRIOR TO FILL.	●	●	REFERENCE NOTE F1		
<b>GENERAL SPECIAL INSPECTION NOTES :</b>					
1. THE ITEMS MARKED WITH A "●" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY, FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS. REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.					
2. CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. [IBC SECTION 201.2]					

<b>FOOTING SCHEDULE</b>								
MARK	WIDTH	LENGTH	THICK	LENGTHWISE REINF.		CROSSWISE REINF.		REMARKS
				NO.	SIZE	NO.	SIZE	
FC2	2'-0"	CONT.	12"	(2)	#5	--	--	PP

TYP. FOOTING SECTION

## STANDARD HOOK & BEND SCHEDULE

**DETAILING DIMENSIONS**

HOOK A

J

D

180°

4d<sub>s</sub> OR 2 1/2" MIN

D = 6d<sub>s</sub> FOR #3 THROUGH #8  
D = 8d<sub>s</sub> FOR #9 THROUGH #11

**DETAILING DIMENSIONS**

A

D

90°

6d<sub>s</sub> OR 2 1/2" MIN. FROM POINT OF TANGENCY

D = 4d<sub>s</sub> FOR #3 THROUGH #5  
D = 6d<sub>s</sub> FOR #6 THROUGH #8  
D = 8d<sub>s</sub> FOR #9 THROUGH #11

**DETAILING DIMENSIONS**

A

D

135°

6d<sub>s</sub> OR 2 1/2" MIN. FROM POINT OF TANGENCY

D = 4d<sub>s</sub> FOR #3 THROUGH #5  
D = 6d<sub>s</sub> FOR #6 THROUGH #8  
D = 8d<sub>s</sub> FOR #9 THROUGH #11

NOTE: d<sub>s</sub> = BAR DIAMETER

BAR SIZE	DIMENSION OF STANDARD 180° HOOKS, ALL GRADES			DIMENSION OF STANDARD 90° HOOKS, ALL GRADES	
	A	J		A	J
#3	5"	3"		6"	3"
#4	6"	4"		8"	4"
#5	7"	5"		10"	5"
#6	8"	6"		1'-0"	6"
#7	10"	7"		1'-2"	7"
#8	11"	8"		1'-4"	8"
#9	1'-3"	11 3/4"		1'-7"	9"
#10	1'-5"	1'-1 1/4"		1'-10"	10"
#11	1'-7"	1'-2 3/4"		2'-0"	11"

TABLE OF EQUIVALENT FASTENERS						
STAPLES, NAILS AND T-NAILS (VALID FOR LATERAL LOADS ONLY)						
COMMON NAIL SPACING		EQUIVALENT SPACING OF APPROVED FASTENERS				
		STAPLES			NAILS & T-NAILS	
GAUGE PENETRATION		16	15	14	.113	.131
		1"	1"	1"	1 1/4"	1 1/2"
6d AT:	4"	3 1/2"	4"	5"	4"	5"
	6"	5"	6"	7"	6"	7 1/2"
	8"	6 1/2"	8"	9 1/2"	8"	10"
	10"	8 1/2"	10"	12"	10"	12"
	12"	10"	12"	14 1/2"	12"	14 1/2"
8d AT:	4"	2 1/2"	3 1/2"	4"	3 1/2"	4"
	6"	4"	5"	6"	5"	6"
	8"	5 1/2"	6 1/2"	8"	6 1/2"	8"
	10"	6 1/2"	8"	10"	8"	10"
	12"	8"	10"	12"	9 1/2"	12"
10d AT:	4"	2"	2 1/2"	3"	2 1/2"	3 1/2"
	6"	3 1/2"	4"	5"	4"	5"
	8"	4 1/2"	5 1/2"	6 1/2"	5 1/2"	7"
	10"	5 1/2"	7"	8"	6 1/2"	8 1/2"
	12"	6 1/2"	8"	9 1/2"	8"	10"

NOTES:  
 PENETRATION IS THE DEPTH OF EMBEDMENT OF THE STAPLE OR NAIL INTO THE MAIN MEMBER REQUIRED TO ATTAIN ITS FULL CAPACITY (SHEAR VALUE) FOR LATERAL LOADING.

A 3x3 grid with the following letters:

	A	
	R	
		W

SANTAQUIN, UTAH

DATE:	05/04/2021
ARW PROJECT NO:	21016
DESIGN SEQUENCE PROJECT NO:	2010.01
CAD DWG FILE NO:	

SHEET TITLE

S002

WOOD SHEAR WALL SCHEDULE											
WALL MARK	LEVEL	(NOTE 8) PLYWOOD SHEATHING (CDX U.N.O.)	EDGE NAILING (E.N.) (SEE NOTES 2 & 3)	NOMINAL BOTTOM PLATE SIZE	(NOTE 5) NOM. STUD SIZE (MIN.)	CONNECTION NAILING		(NOTE 7) TYP. SILL PLATE ANCHOR BOLTS		COMMENTS	
						NAILING TOP PL. TOGETHER (C)	BLKG. TO TOP PL. (C)	TOP PL. SPLICE	DIA.	SQA.	
SW-1	1ST TO ROOF	7/16"	6"x.c.	2x	2x	(24) 10d	A35 AT 24"x.c / 10d AT 6"x.c.	SEE NOTE 9	5/8" DIA.	32"x.c.	
SW-2	1ST TO ROOF	7/16"	4"x.c.	2x	3x	(24) 10d	A35 AT 18"x.c / 10d AT 4"x.c.	SEE NOTE 9	5/8" DIA.	32"x.c.	
SW-3	1ST TO ROOF	7/16"	3"x.c.	2x	3x	(24) 10d	A35 AT 12"x.c / 10d AT 3"x.c.	SEE NOTE 9	5/8" DIA.	16"x.c.	
NOTES: 1. ALL SHEATHING PANEL EDGES TO BE BLOCKED. USE 3x BLOCKING WHERE 3x STUDS ARE REQUIRED. 2. ALL NAILS TO BE COMMON OR GALVANIZED BOX. 3. FIELD NAILING TO BE SAME NAILS @ 12"x.c. 4. STAGGER E.N. AT DOUBLE TOP PLATES. 5. 3x NOMINAL FRAMING MEMBERS TO OCCUR AT ABUTTING PANEL EDGES. 2x NOMINAL FRAMING MEMBERS MAY BE USED AT INTERIOR OF PANEL, UNLESS NOTED OTHERWISE IN FLOOR FRAMING NOTES. (2) 2x NAILED TOGETHER W/ (2) 16d NAILS @ 10"x.c. OR 4x NOMINAL FRAMING MEMBERS OF THE SAME DEPTH AND LUMBER GRADE MAY BE USED IN LIEU OF 3x MEMBERS AT CONTRACTOR OPTION. 6. SHEATHING SHALL BE STAMPED W/ APA STAMP O.S.B. OF EQUIVALENT THICKNESS, GRADE, AND RATING MAY BE USED IN LIEU OF PLYWOOD. 7. ALL SILL PLATE ANCHOR BOLTS TO HAVE MINIMUM 8" EMBEDMENT INTO CONCRETE AS PER DETAIL 8/S201. SEE DETAIL 5/S202 FOR HOLDOWN ANCHORAGE REQUIREMENTS. 8. SEE THIS SHEET FOR TYPICAL SHEAR TRANSFER DETAILS. 9. TOP PLATE SPLICE NAILING SHALL APPLY TO EACH SIDE OF THE SPLICE. THE LENGTH OF THE OVERLAP SHALL BE SUFFICIENT TO PREVENT SPLITTING (36" MIN.) SEE STRUCTURAL NOTE L.13 ON SHEET S001 FOR NAILING REQUIREMENTS.											

This diagram shows a cross-section of an exterior non-bearing wall. A vertical wall is shown with horizontal framing members at the top and bottom. The top plate is labeled 'B'. Bearing nails are indicated by 'B.N.'. The connection between the top plate and the wall is detailed with nailing, labeled 'C' for nailing the top plate together and 'E.N.' for edge nailing. The wall itself is shown with a break symbol indicating it continues above and below the shown section.

EXTERIOR NON-BEARING WALL  
SHEAR TRANSFER

This diagram shows a cross-section of an exterior bearing wall. Similar to the first diagram, it shows a vertical wall with horizontal framing members. However, the wall is shown as a bearing wall, meaning it supports loads from above. The details for nailing and connections are similar, with labels 'B', 'B.N.', 'C', and 'E.N.' used to identify the components and their fastenings. Break symbols are used to show the wall continues vertically.

EXTERIOR BEARING WALL  
SHEAR TRANSFER

RETAIL BUILDING SANTAQUIN PAD A		
SANTAQUIN, UTAH		
MARK	DATE	DESCRIPTION
DATE:		05/04/2021
ARW PROJECT NO:		21016
DESIGN SEQUENCE PROJECT NO:		2010.01
CAD DWG FILE NO:		
DRAWN BY:		D.Bartelsor
DESIGNED BY:		M. Wing
DWG TYPE:		
PROJECT PHASE:		PERMIT SET



RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION
I		

DATE: 05/04/2021  
ARW PROJECT NO: 21016  
DESIGN SEQUENCE PROJECT NO: 2010.01  
CAD DWG FILE NO:

DRAWN BY: D.Bartelson  
DESIGNED BY: M. Wing  
DWG TYPE:  
PROJECT PHASE: PERMIT SET

SHEET TITLE

STRUCTURAL  
PLANS

S101

FOOTING & FOUNDATION NOTES :

1. SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
2. ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
3. VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND.
4. SEE SHEET S002 FOR FOOTING SCHEDULE.
5. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
6. SEE SHEET S201 FOR TYPICAL FOOTING AND FOUNDATION DETAILS.
7. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES.
8. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS.
9. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT.
10. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.
11. FOUNDATION WALLS SHALL BE 10" THICK U.N.O.

WOOD ROOF FRAMING NOTES :

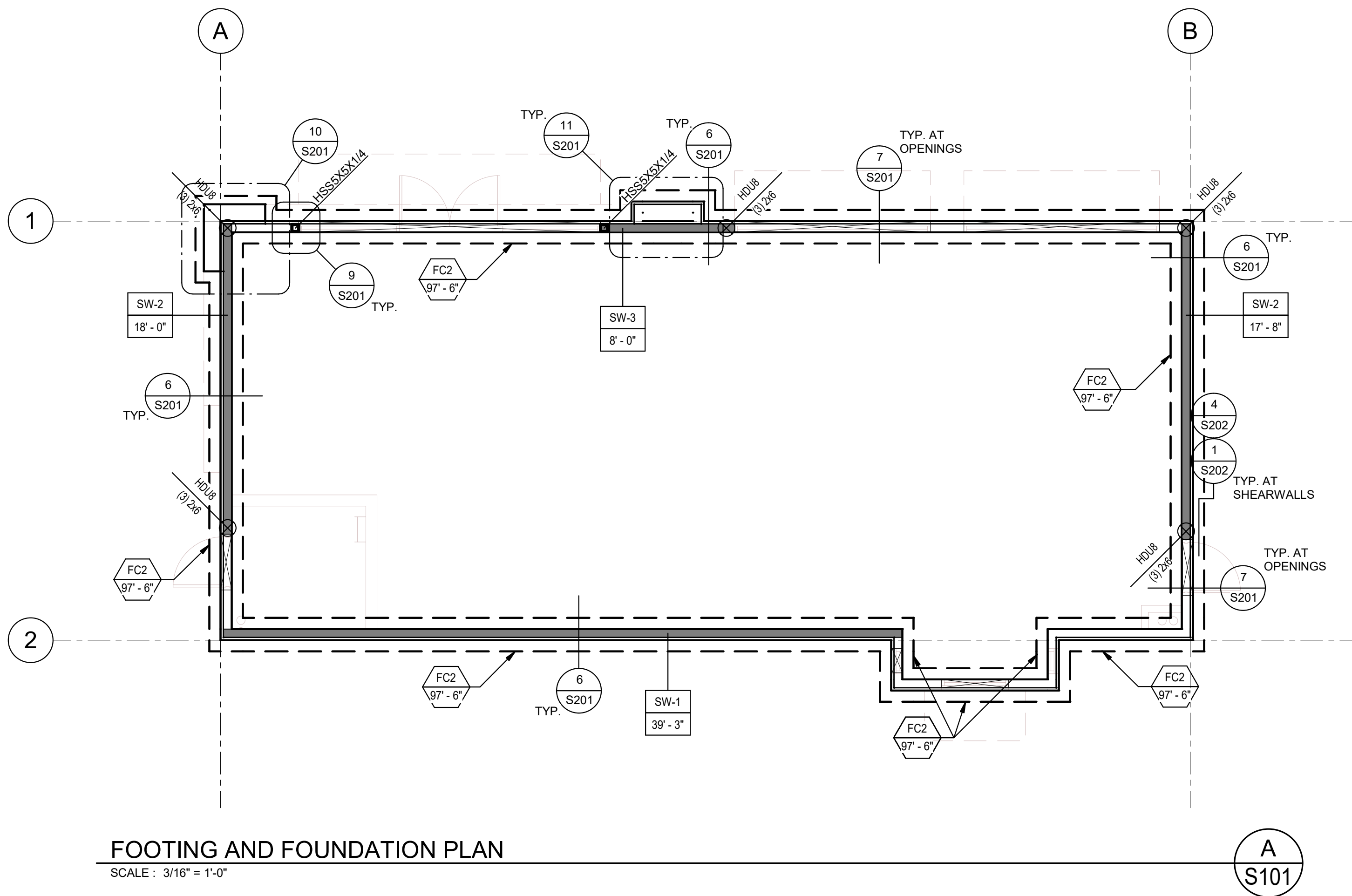
1. FOR ROOF SHEATHING AND NAILING REQUIREMENTS, SEE STRUCTURAL NOTES SHEET S001.
2. SHEAR WALLS ARE INDICATED ON A/S101. SEE THE SHEAR WALL SCHEDULE ON SHEET S003.
3. SEE WOOD FRAMING NOTES ON SHEET S001 FOR WALL TOP PLATE CONFIGURATION AND SPLICE REQUIREMENTS.
4. SEE PREMANUFACTURED TRUSS NOTES FOR ADDITIONAL INFORMATION.
5. INDICATES BOUNDARY AND EDGE NAILING OF 6" o.c. WITH BLOCKING AT PANEL EDGES. SEE DETAIL 7/S203.
6. SEE DETAIL 2/S202 FOR TYPICAL WALL OPENING FRAMING.

PRE-MANUFACTURED TRUSS NOTES :

1. PRE-MANUFACTURED TRUSSES SHALL BE DESIGNED PER ALL APPLICABLE LOAD COMBINATIONS AND LOAD CONFIGURATIONS AS REQUIRED BY THE GOVERNING CODE AND THE GENERAL STRUCTURAL NOTES :

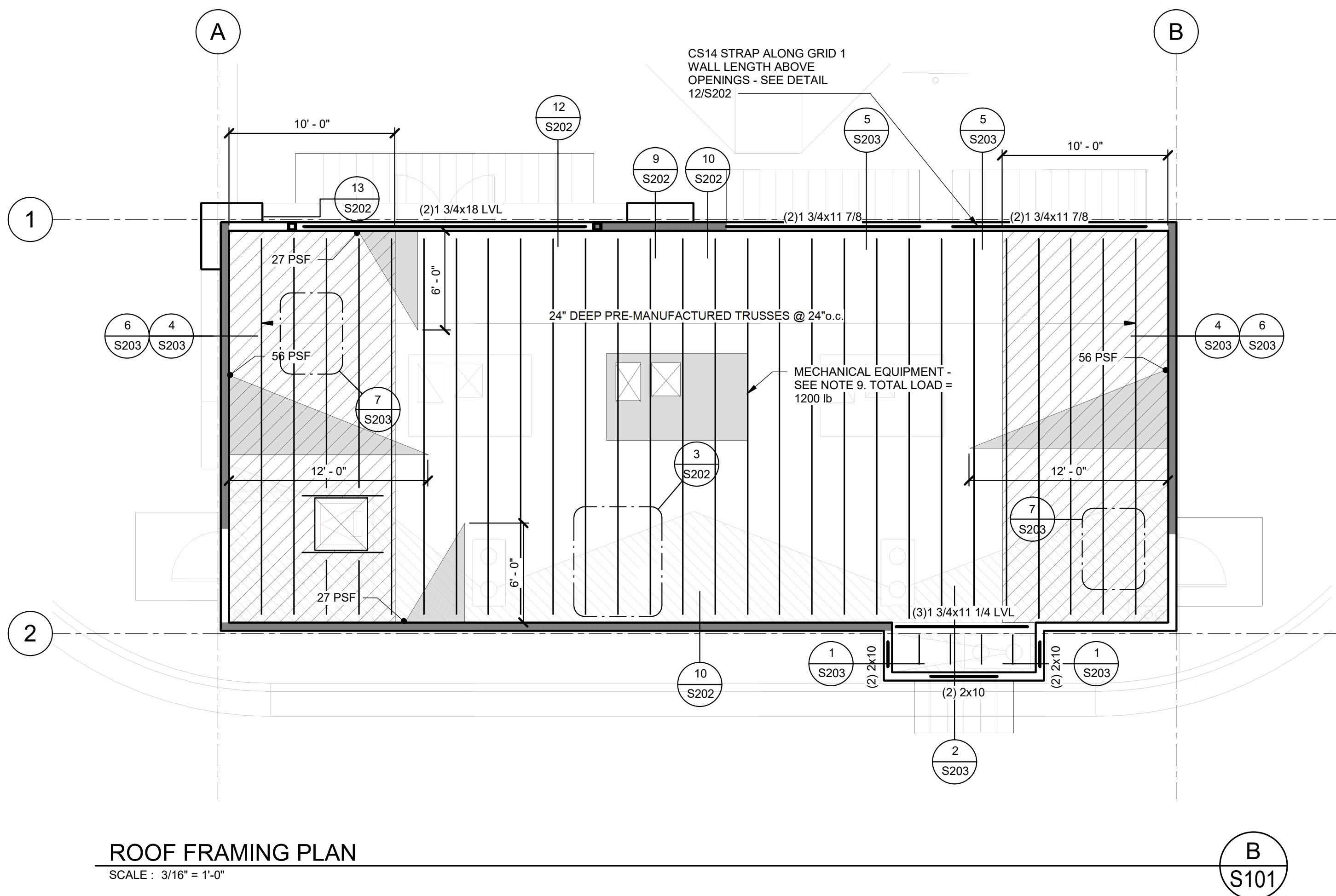
THE FOLLOWING CRITERIA SHALL BE USED IN DESIGN.

- SNOW LOAD = PER GENERAL STRUCTURAL NOTES  
LIVE LOAD = PER GENERAL STRUCTURAL NOTES  
DEAD LOAD = 15 PSF TOP CHORD  
5 PSF BOTTOM CHORD  
WIND LOAD = PER GENERAL STRUCTURAL NOTES  
SNOW DRIFT = AS DETERMINED BY THE TRUSS MANUFACTURER OR SHOWN ON PLANS.  
CONSIDER BALANCED, UNBALANCED AND DRIFT LOCATIONS
2. ALL TRUSSES SHALL BE DESIGNED FOR A 150 POUND POINT LOAD APPLIED AT ANY LOCATION ALONG THE BOTTOM CHORD. DESIGN ALL TRUSSES FOR WIND UPLIFT PER THE GOVERNING CODE WITH A 15 PSF DEAD LOAD.
  3. ALL TRUSS TO TRUSS CONNECTIONS PROVIDED BY TRUSS MANUFACTURER.
  4. TRUSS MANUFACTURER SHALL COORDINATE AND INCLUDE ALL ADD LOADS AS INDICATED ON THE FRAMING PLAN.
  5. COORDINATE DUCT RUNS AND TRUSS WEB CONFIGURATIONS WITH MECHANICAL & ARCH. DRAWINGS. DO NOT FIELD MODIFY TRUSSES TO ACCOMMODATE DUCTING AND OTHER MISCELLANEOUS EQUIPMENT WITHOUT WRITTEN DIRECTION FROM THE TRUSS MANUFACTURER OR STRUCTURAL ENGINEER.
  6. COORDINATE ALLOWABLE TRUSS DEFLECTIONS WITH ARCHITECT FOR DETAILING OF NON-BEARING STUD WALLS BELOW.
  7. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR REVIEW AS REQUIRED BY THE DEFERRED SUBMITTAL SECTION OF THE GENERAL STRUCTURAL NOTES.
  8. <##> INDICATES ASD TOP CHORD AXIAL LOAD AS WORST CASE OF WIND OR SEISMIC LOADS.
  9. RTU LOADS ARE IN ADDITION TO TYPICAL LOADS AND SNOW DRIFT SHOWN.
  10. SEE DETAILS 10/S202, 12/S202, AND 6/S203 FOR ASD WIND PARAPET LOADS ON TRUSSES.



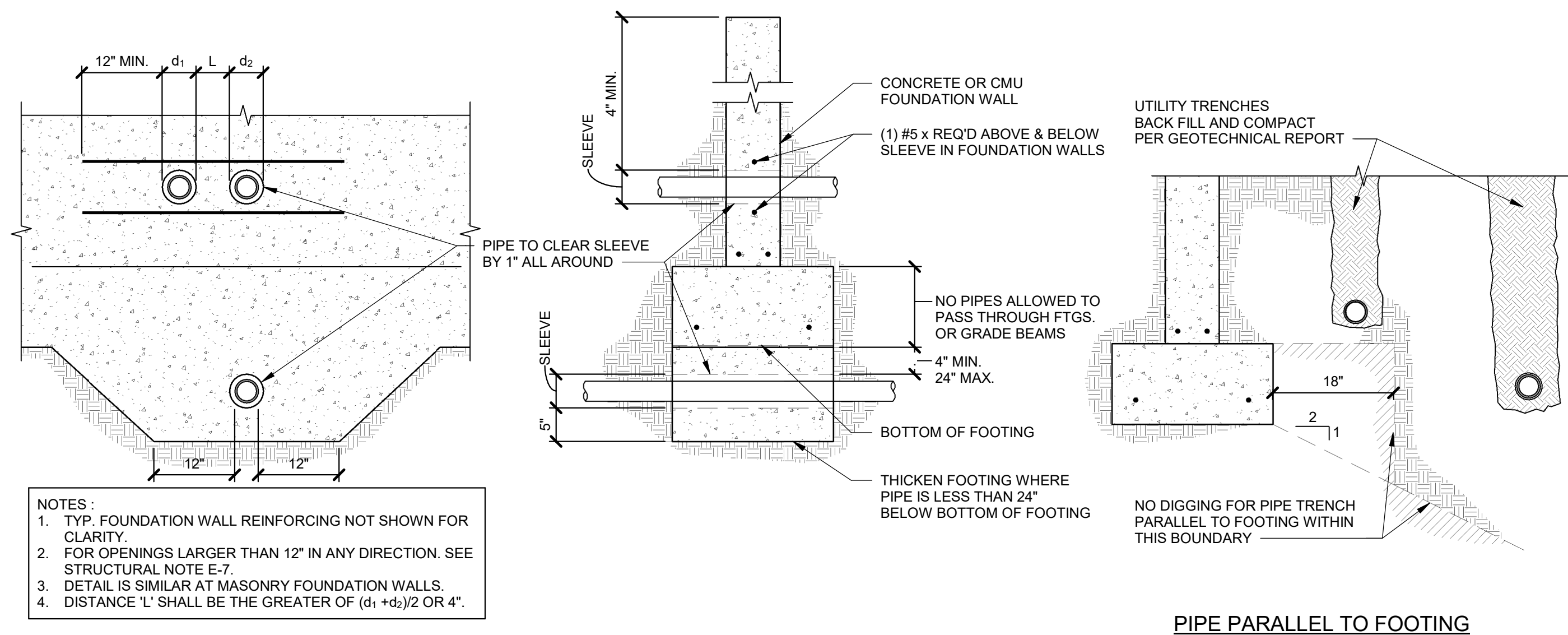
FOOTING AND FOUNDATION PLAN

SCALE : 3/16" = 1'-0"

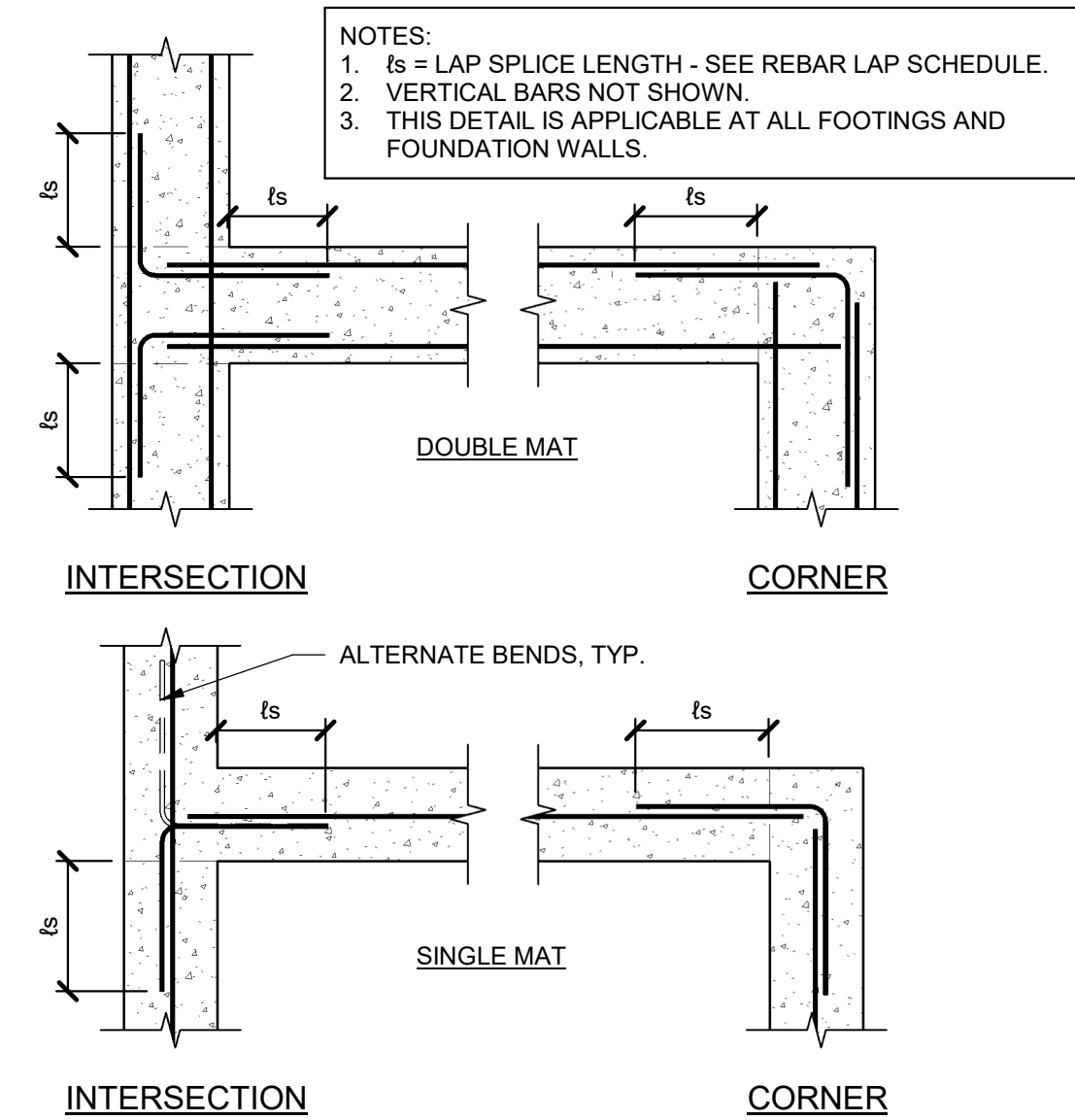


ROOF FRAMING PLAN

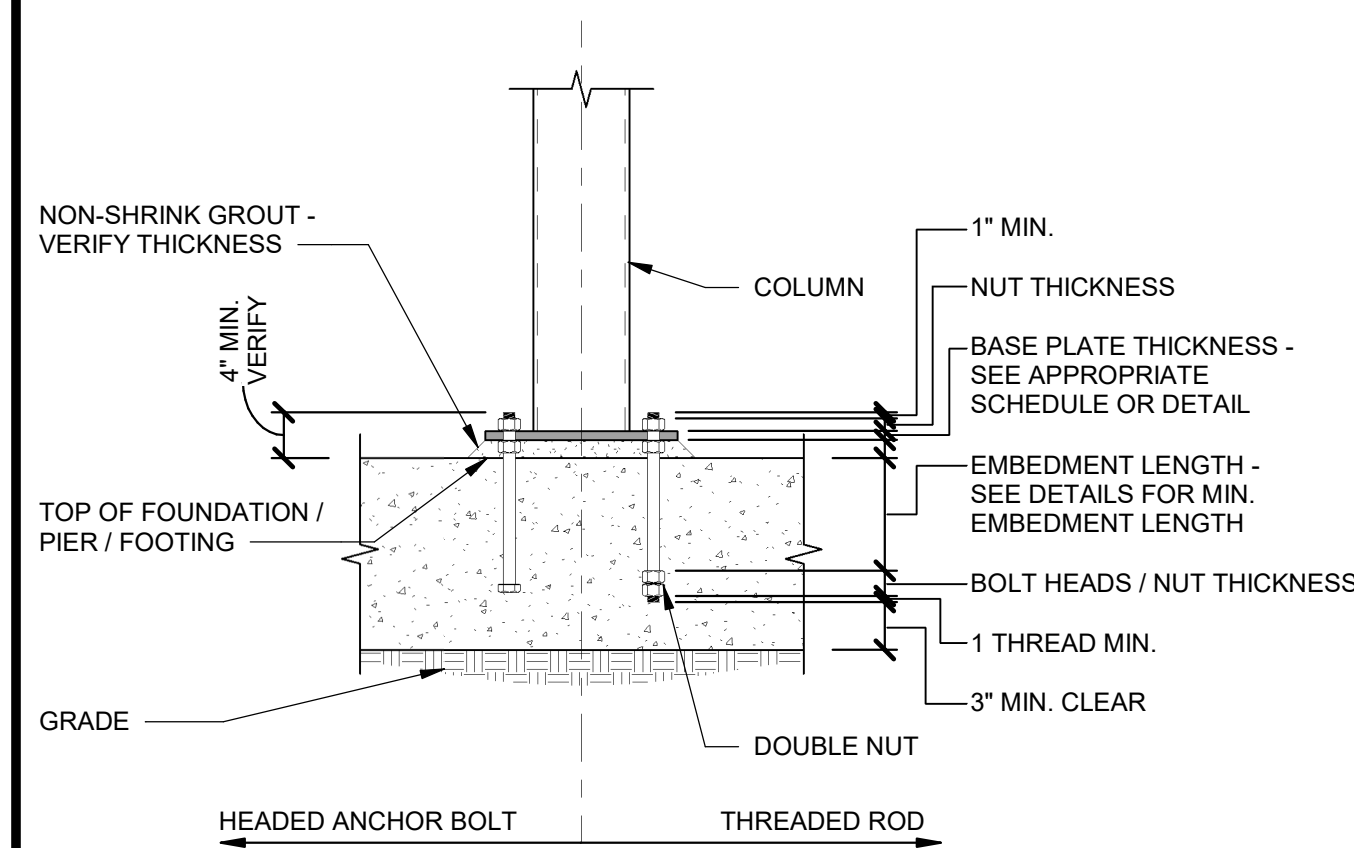
SCALE : 3/16" = 1'-0"



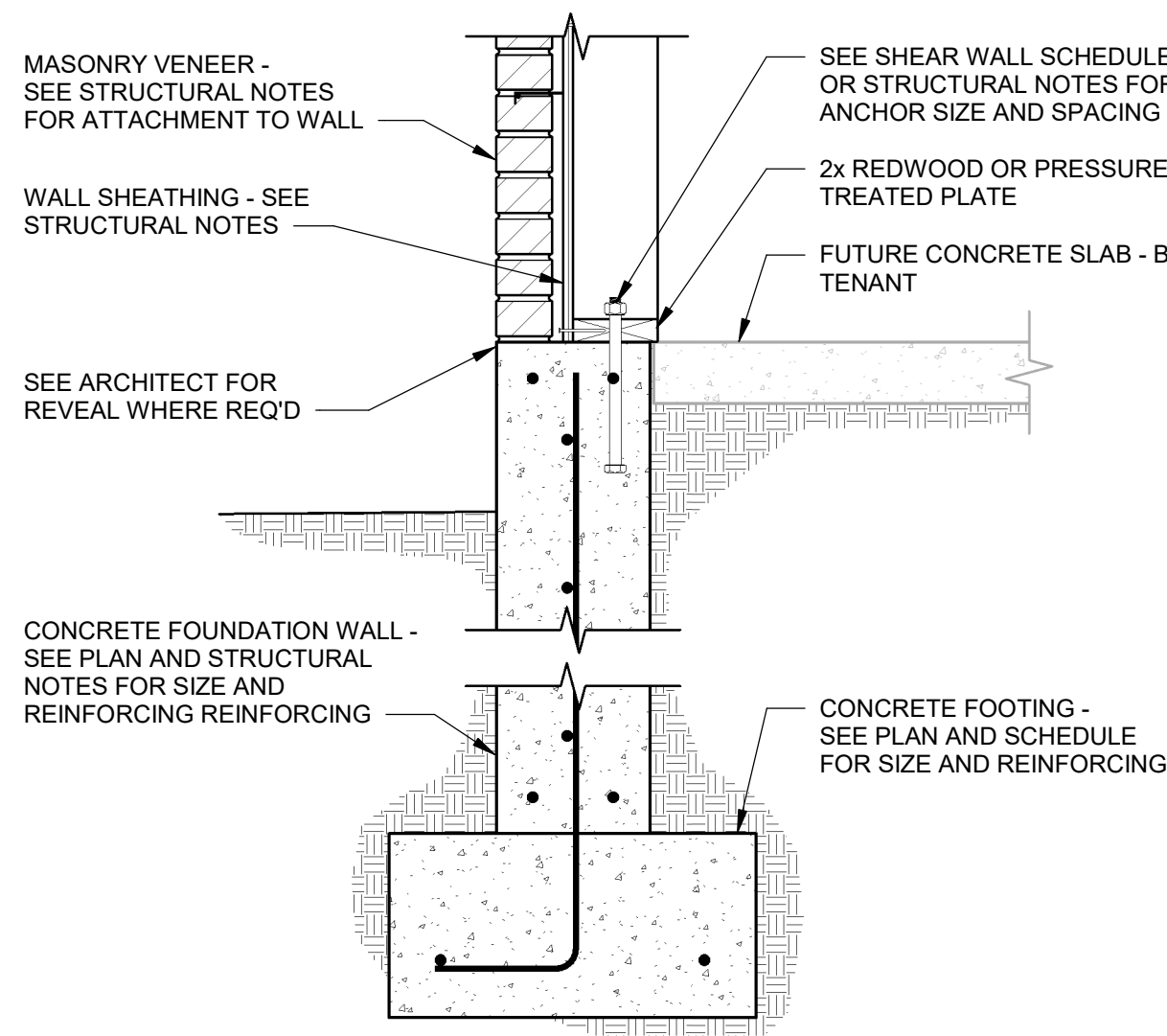
PIPE CROSSING FOOTING / FOUNDATION WALL  
ALLOWABLE PIPING LOCATIONS @ FOOTING DETAIL  
SCALE: NONE



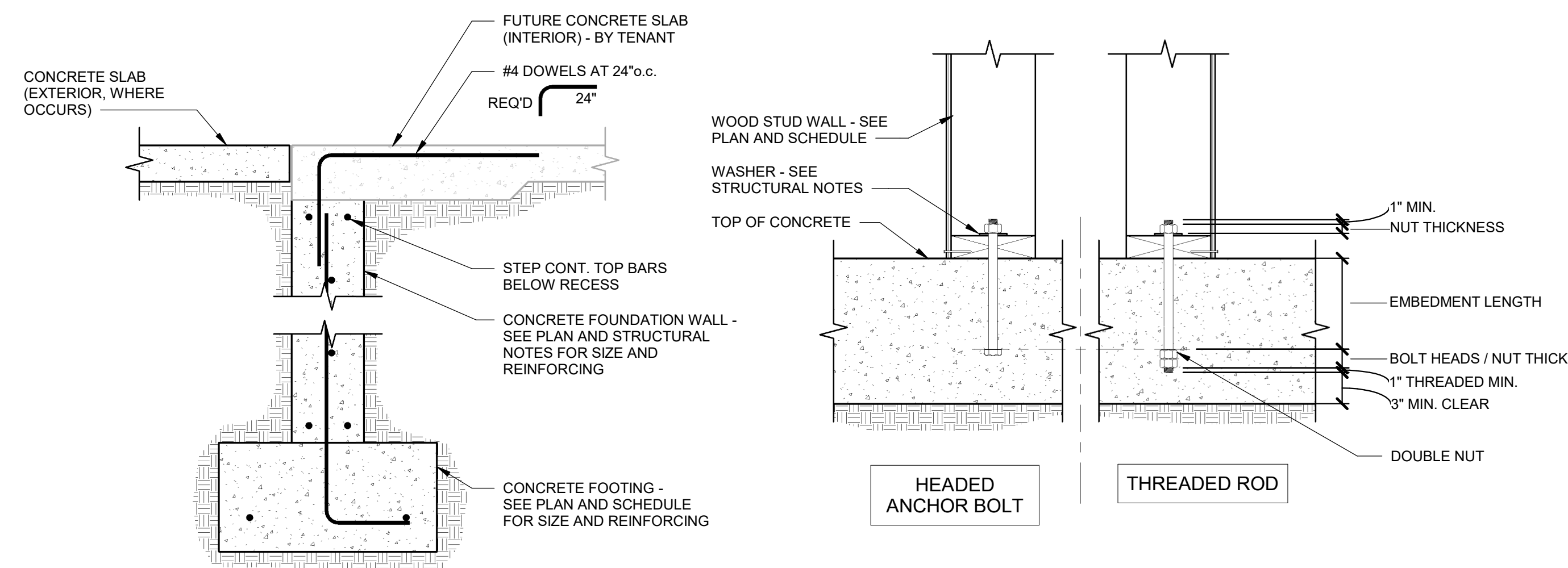
TYP. REINF. @ INTERSECTIONS IN CONC.  
DETAIL  
SCALE: NONE



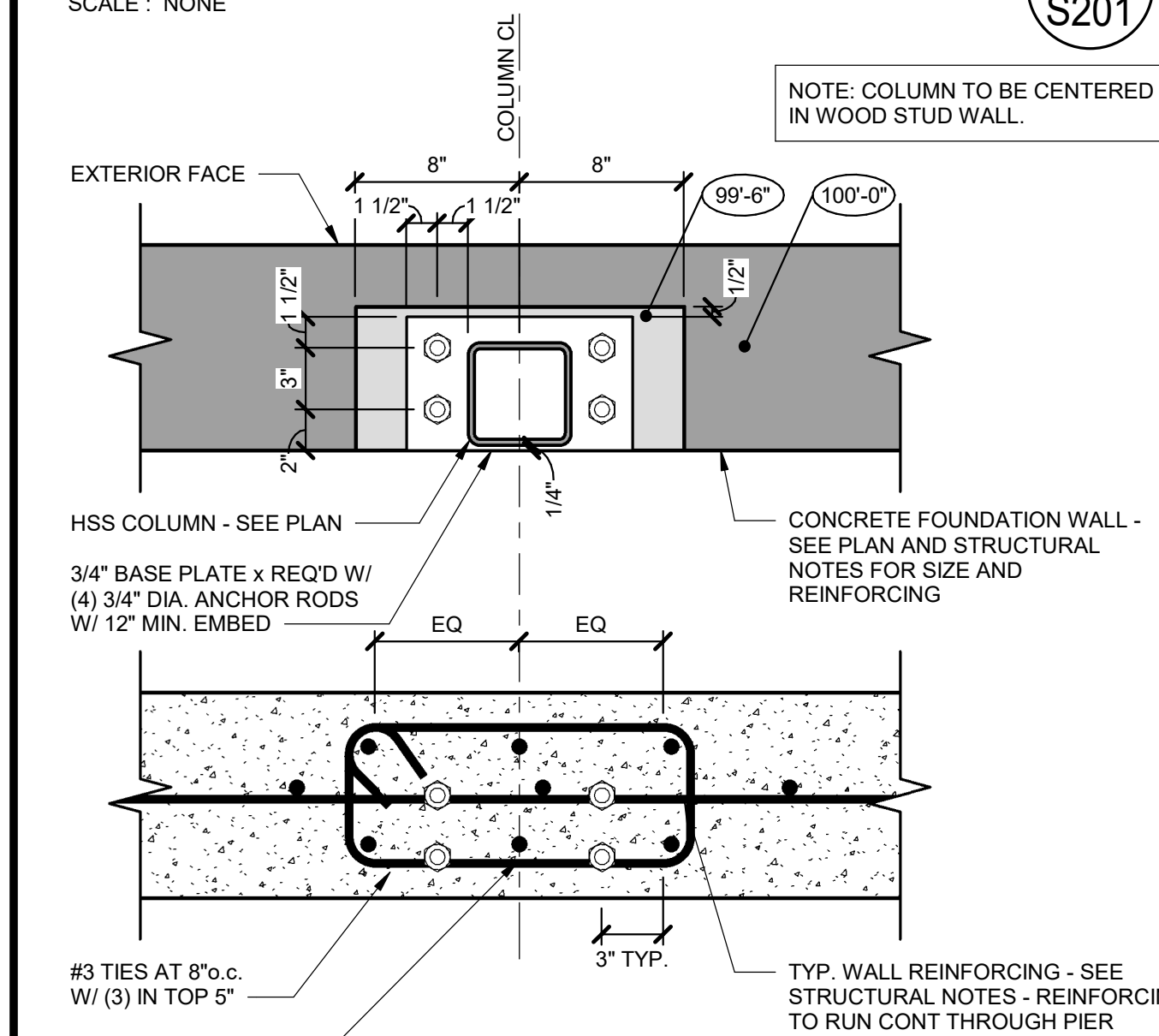
TYPICAL ANCHOR BOLT EMBEDMENT  
DETAIL  
SCALE: NONE



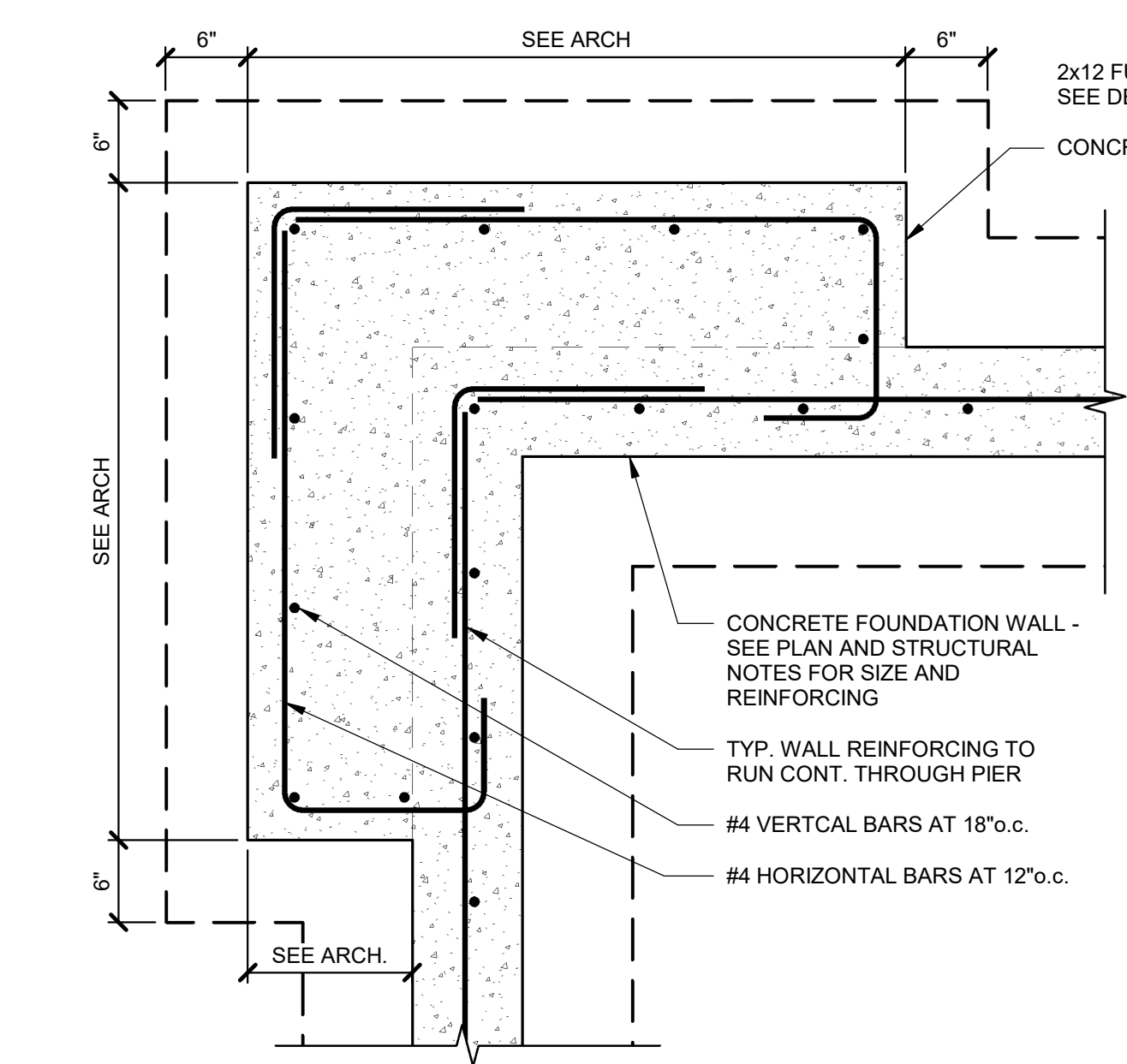
SECTION @ EXTERIOR TIMBER WALL  
SCALE: NONE



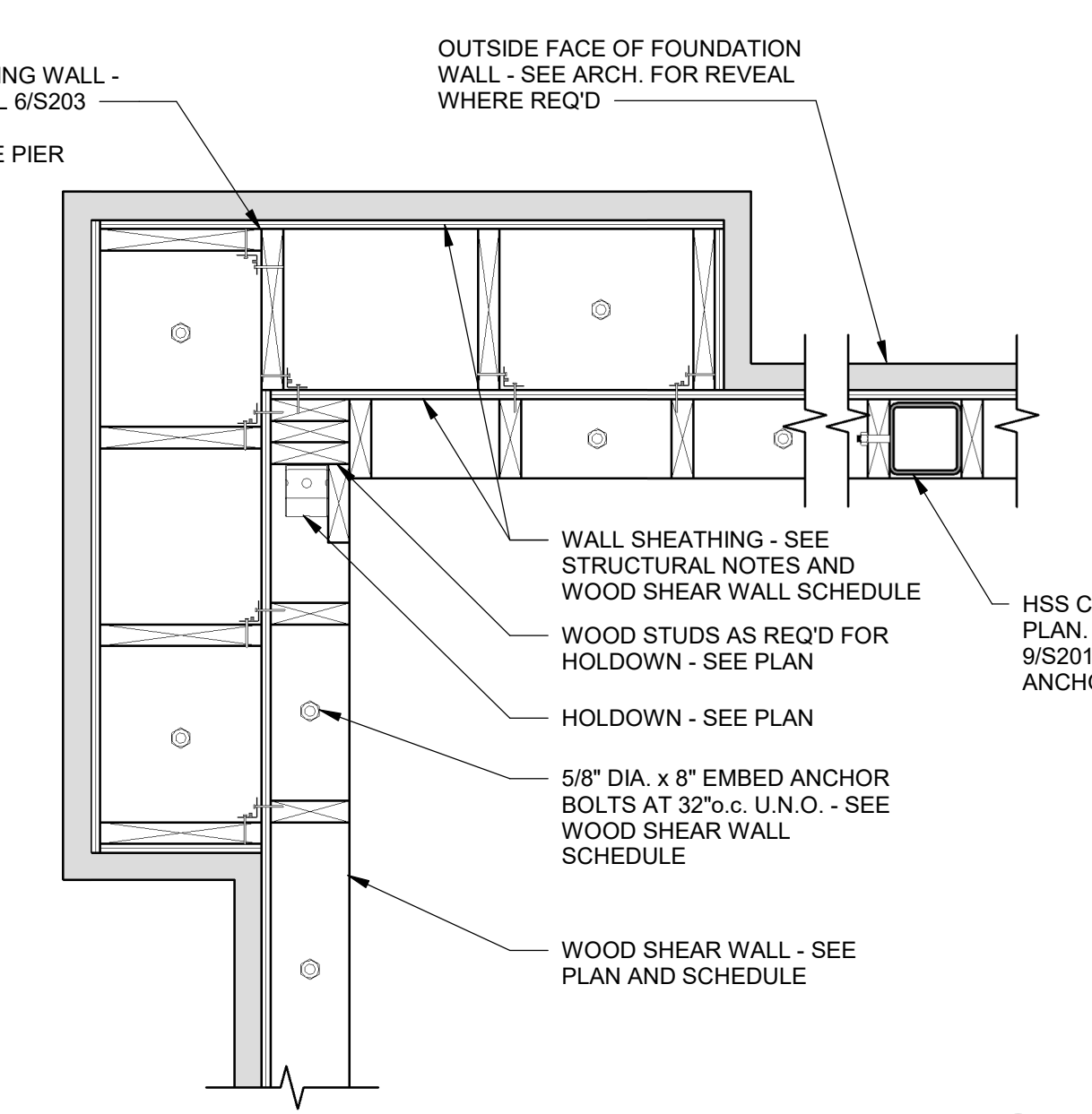
CONCRETE FOUNDATION @ OPENING  
DETAIL  
SCALE: NONE



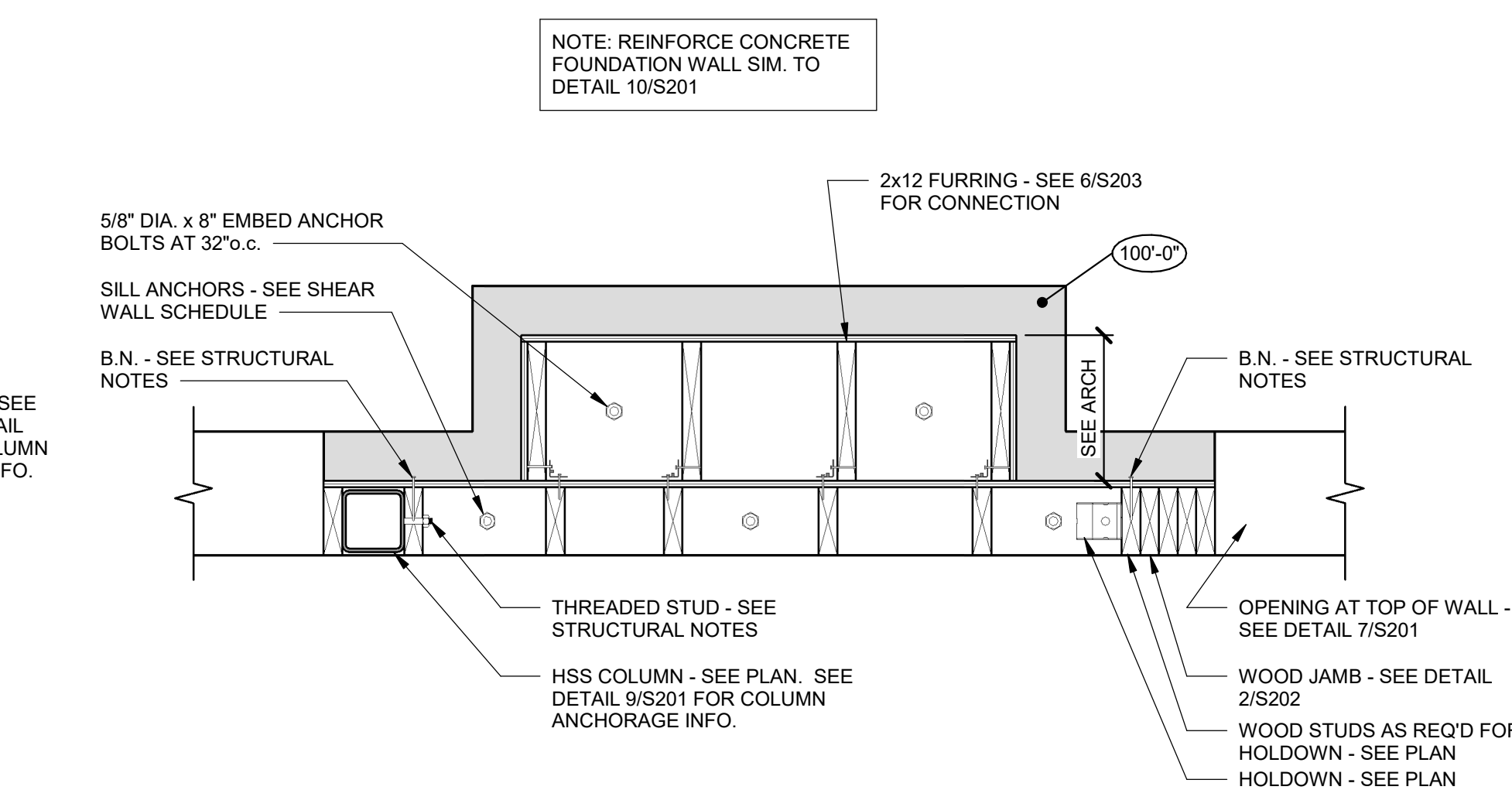
DETAIL  
SCALE: NONE



DETAIL  
SCALE: NONE



DETAIL  
SCALE: NONE



DETAIL  
SCALE: NONE

MARK	DATE	DESCRIPTION

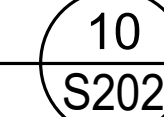
DATE:	05/04/2021
ARW PROJECT NO:	21016
DESIGN SEQUENCE PROJECT NO:	2010.01
CAD DWG FILE NO:	

DRAWN BY:	D.Bartelson
DESIGNED BY:	M. Wing
DWG TYPE:	
PROJECT PHASE:	PERMIT SET

SHEET TITLE

DETAILS

S201

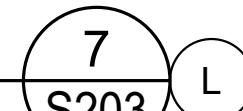




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S203



- 1.)  INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK.
- 2.) COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.
- 3.) DUCTWORK SHALL BE INSULATED AS FOLLOWS:

	LINED OR UNWRAPPED	R-VALUE
MEDIUM PRESSURE DUCT UP TO RTU:	UNWRAPPED	R-6
ROUND DUCTWORK:	WRAPPED	R-6
LOW PRESSURE RECTANGULAR DUCTWORK:	LINED	R-6
ROUND FLEXIBLE DUCT (MAX 6' LONG):	N/A	R-6
DUCTWORK INSTALLED OUTSIDE THE BUILDING:	DOUBLE WALL	R-12
WALL INSULATION TO MEET NFPA 30 PER IUL 181-CLASS 1:		
NO DUCTBOARD ALLOWED.		
- 4.) DUCTWORK AND PIPING ROUTES AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- 5.) THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE.
- 6.) THIS CONTRACTOR SHALL FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH EXISTING SITE CONDITIONS.
- 7.) THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL DUCTWORK (UNLESS OTHERWISE NOTED ON FLOOR PLANS) SHALL BE CONSTRUCTED OF 1" W.C. SEAL CLASS.
- 8.) ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADAPTED EDITION OF THE BUILDING CODES, ENERGY CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- 9.) THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- 10.) ALL RTU's WATER FLOW RATES AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- 11.) DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- 12.) FIRE SPRINKLER CONTRACTOR SHALL ADD AND/OR RELOCATE SPRINKLER HEADS PER REFLECTED CEILING PLAN AND THE CURRENT ADAPTED EDITION OF NFPA AND BUILDING CODE.
- 13.) ALL DOMESTIC COLD AND DOMESTIC HOT WATER PIPING SHALL BE TYPE "L" COPPER. ALL WASTE AND VENT PIPING SHALL BE ABS OR PVC. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE PVC.
- 14.) VENT THE HIGH POINTS OF NEW MECHANICAL PIPING.
- 15.) PROVIDE / INSTALL PIPE INSULATION AS FOLLOWS:
  - a.) DOMESTIC HOT WATER PIPING:
    - 1" THICK FOR ALL PIPE SIZES.
    - b.) DOMESTIC COLD WATER PIPING:
      - 1" THICK FOR PIPE SIZES 1/2" TO 6".
      - (PROVIDE CONTINUOUS VAPOR BARRIER.)
    - c.) ROOF AND OVERFLOW DRAINS:
      - 1" THICK FOR ALL PIPE SIZES
      - INSULATION ONLY REQUIRED ON HORIZONTAL
      - PRIMARY DRAIN AND ALL DRAIN BAYS
  - 16.) INSULATE PIPING WITH FIBERGLASS FLEECE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTING TO BE WELDED OR GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLenum. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F.
  - 17.) EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING.
  - 18.) M.C. MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR VALVES AND EQUIPMENT. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
  - 19.) M.C. TO SUBMIT TO ENGINEER ALL AS-BUILDS OF BUILDINGS MECHANICAL AND PLUMBING SYSTEMS PRIOR TO JOB COMPLETION AND FINAL PAYMENT.
  - 20.) ALL EXTERIOR EXPOSED PIPING IS TO BE INSULATED AND WEATHERPROOFED. SEE SPECS SECTION 21 07 00.
  - 21.) ALL INVERT ELEVATIONS SHOWN ON PLANS ARE BASED OFF OF FINISHED FLOOR ELEVATION (F.F.E.) OF 100'-00" UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR EXACT INVERT ELEVATIONS AT ALL LEVELS.
  - 22.) ALL FLOOR DRAINS / FLOOR SINKS THROUGH-OUT THE ENTIRE BUILDING ARE TO HAVE TRAP SEAL PRIMER VALVES OR TRAP GUARDS PROVIDED / INSTALLED BY PLUMBING CONTRACTOR.
  - 23.) ALL GAS METER REGULATORS ARE TO BE VENTED TO THE OUTSIDE OF THE BUILDING BY THE PLUMBING CONTRACTOR IN ACCORDANCE WITH THE LOCAL JURISDICTION. NONE OF THE VENT PIPING OFF THE REGULATORS ARE SHOWN ON THE PLANS FOR CLARITY.
  - 24.) ALL DUCTWORK IS TO BE INSTALLED AS HIGH UP AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 1' FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 1' FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
  - 25.) ALL THERMOSTAT LOCATIONS ON THE PLANS SHALL COORDINATED WITH FURNITURE PLANS AND VERIFIED WITH OWNER PRIOR TO ROUGH IN. IF THERMOSTAT NEEDS TO BE INSTALLED IN A LOCATION OTHER THAN SHOWN ON THE PLANS, THIS CONTRACTOR SHALL MAKE ADJUSTMENTS AT NO ADDITIONAL COST.
  - 26.) CONTRACTOR SHALL PROVIDE OPERATING / MAINTENANCE MANUALS FOR ALL EQUIPMENT.
  - 27.) THE MECHANICAL CONTRACTOR IS TO PROVIDE STAMPED AND SIGNED SEISMIC DRAWINGS AND DETAILS FOR ALL MECHANICAL AND PLUMBING ITEMS, SUBMIT THESE DRAWINGS TO THE ENGINEER AND TO THE CITY AS A DEFERRED SUBMITTAL.

# MECHANICAL LEGEND

RETURN OR EXHAUST DUCT DOWN	
RETURN OR EXHAUST DUCT UP	
SUPPLY AIR DUCT DOWN	
SUPPLY AIR DUCT UP	
90° IN FITTING W/4WD	
FLEXIBLE DUCT	
CEILING SLOT DIFFUSER	
CEILING DIFFUSER	
CEILING EXHAUST GRILLE	
CEILING GRILLE	
ACCESS PANEL	
MANUAL VOLUME DAMPER	
MOTORIZED DAMPER	
CEILING MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	
WALL MOUNTED GRILLE WITH OBD (OPPOSED BLADE DAMPER) INSTALLED IN GRILLE BY MANUF.	
DUCT TRANSITION WITH MIN. LENGTH INDICATED	
FIRE DAMPER	
COMBINATION FIRE/SMOKE DAMPER	
SMOKE DAMPER	
THERMOSTAT OR TEMP SENSOR	
POINT OF CONNECTION TO EXISTING	
DETAIL TAG	
KEYED NOTE	
SECTION CUT LINE	
CONTROL TRANSFORMER	
ROUTE DUCT THROUGH JOISTS	
DUCT ELBOW W/ TURNING VANES OR RADIUS ELBOW	
DIRECTION OF AIRFLOW BALANCER TO TURN ALL SLOTS IN DIFFUSER FACING DIRECTION NOTED	

PLUMBING FIXTURE CONNECTION SCHEDULE						
PLAN CODE	DESCRIPTION	CONNECTION SIZE				SPECIFICATIONS
		COLD WATER	HOT WATER	WASTE	VENT	
D9N-1	DOWNSPOUT NOZZLE	N/A	N/A	4"	N/A	J.R. SMITH 1170
FCO-1	FLOOR CLEANOUT	N/A	N/A	SEE PLANS	N/A	J.R. SMITH: MODEL 4220
FD-1	FLOOR DRAIN	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 1005 w/ A05NB NICKEL/BRONZE STRAINER
GCO-1	GRADE CLEAN OUT	N/A	N/A	5"	N/A	J.R. SMITH 4250
OD-1	OVERFLOW DRAIN	N/A	N/A	4"	N/A	J.R. SMITH 1000Y - C - R - CI DOME PROVIDE CAST IRON DOME.
RD-1	ROOF DRAIN	N/A	N/A	4"	N/A	J.R. SMITH 1000Y - C - R - CI DOME PROVIDE CAST IRON DOME.
SC-1	SILLCOCK	¾"	N/A	N/A	N/A	WOODFORD MODEL 65 SERIES
WCO-1	WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530

- PROVIDE WITH DRY BULB ECONOMIZER WITH POWER EXHAUST
- PROVIDE WITH FACTORY WIRE DISCONNECT
- PROVIDE WITH 120V UN-POURED CONVENIENCE OUTLET
- PROVIDE WITH 18" CURB W/ 120 rpm WIND RESISTANT CAPABILITIES.
- PROVIDE WITH SMOKE DETECTORS RETURN DUCT. UNIT IS TO SHUT DOWN UPON SMOKE DETECTOR ACTIVATION.
- PROVIDE 7 DAY PROGRAMMABLE DIGITAL THERMOSTAT WITH AUTO CHANGEOVER AND 100° F. 1-STAY WIRING.
- PROVIDE WITH 2" FILTER BANK AND 2" REPLACEABLE MERV 8 FILTERS.
- PROVIDE CONDENSATE DRAIN WITH MINIMUM 3" DEEP TRAP

ROOF TOP UNIT SCHEDULE    RTU-1																												
PLAN CODE	AREA SERVED	NOMINAL TONS	TOTAL CFM	OA MIN.	ESP @ Elev.	Supply OA LEAT (HP)	SUMMER OA LEAT do/lab	WINTER OA LEAT do/lab	COOLING				HEATING				ELECTRICAL			DIMENSIONS (in.)			OPER. WEIGHT (lbs)	MANUFACTURER & MODEL NO	REMARKS			
									EAT do/lab	LAT do/lab	Net Cooling (MBH)	EER	No. of Stages	No. of Stages	Max. Heat Input (MBH)	EAT °F	LAT °F	AHUE	Max. Heat Output (MBH)	VOLTS PHASE	MCA	MOP				Length	Width	Height
RTU-1	SHELL	7.5	30000	-	0.6"	1.0	100/65	(0)	80/62	57.0 52.1	88	11.2	2	2	200	50	97.9	80%	131.2	208 / 3	39.3	50	89"	54"	61"	1012	TRANE YHC020F3EHA	PROVIDE WITH 18" ROOF CURB

SANTAQUIN, UTAH

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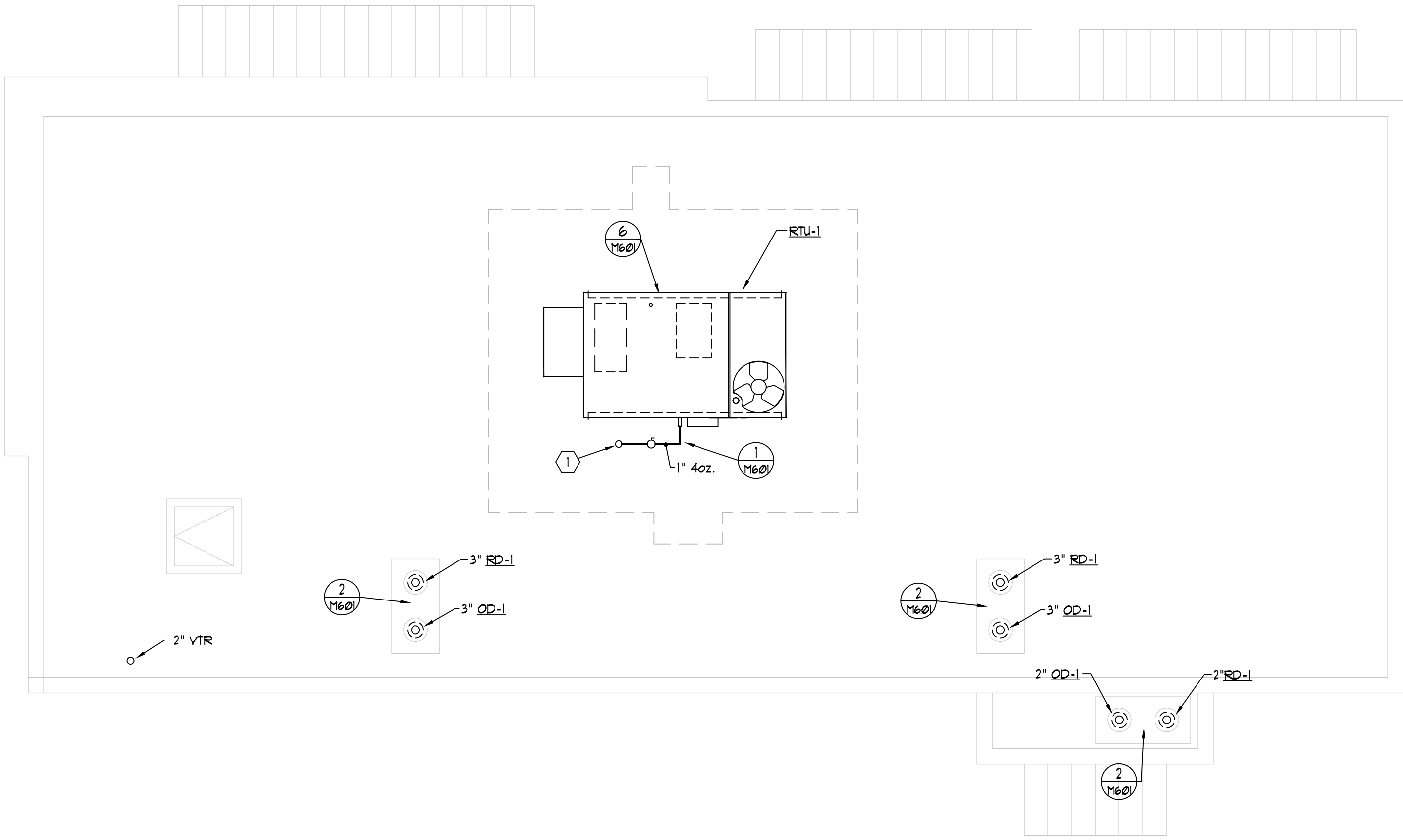
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DESIGNED BY: JE  
DWG TYPE:  
ARCHITECTURAL PHASE: PERMIT SET

# MECHANICAL SCHEDULES

# M001

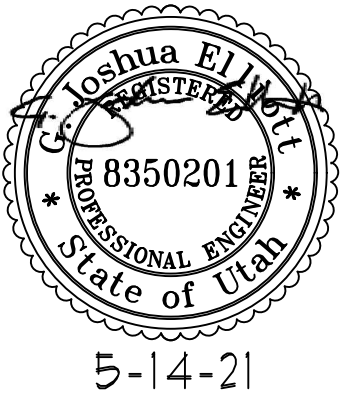


**PVE**  
1040 N 2200 WEST SALT LAKE CITY UTAH  
T: 801.359.3158 [www.pve-ut.com](http://www.pve-ut.com)



**KEYED NOTES:**  
① 1/4" 4oz. NATURAL GAS FROM BELOW. SEE P101 FOR CONTINUATION.

① **MECHANICAL ROOF PLAN**  
SCALE: 1/4" = 1' - 0" 3' 2' 4' 6' 8'



RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: MAY 14, 2021  
AGENCY PROJECT NO:  
DESIGN SEQUENCE PROJECT NO: 21071.00  
CAD DWG FILE NO:

DRAWN BY:  
DESIGNED BY: JE  
DWG TYPE:  
ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

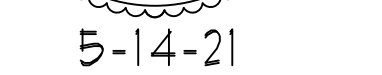
MECHANICAL  
ROOF PLAN

M101

50 SOUTH 200 EAST, #106  
ALT LAKE CITY, UTAH 84111  
P: 801.596.0691  
DESIGNUTAH.COM



- 1 EXTEND SUPPLY AND RETURN DUCT DOWN TO 12" BELOW STRUCTURE.
- 2 PROVIDE 7 DAY PROGRAMMABLE T-STAT WITH 50' OF T-STAT WIRE.



RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

[illegible]

DATE: MAY 14, 2021

AGENCY PROJECT NO:

DESIGN SEQUENCE PROJECT NO: 21071.00

CAD DWG FILE NO:

DRAWN BY:

DESIGNED BY:	JE
CHECKED BY:	

ARCHITECTURAL PHASE:

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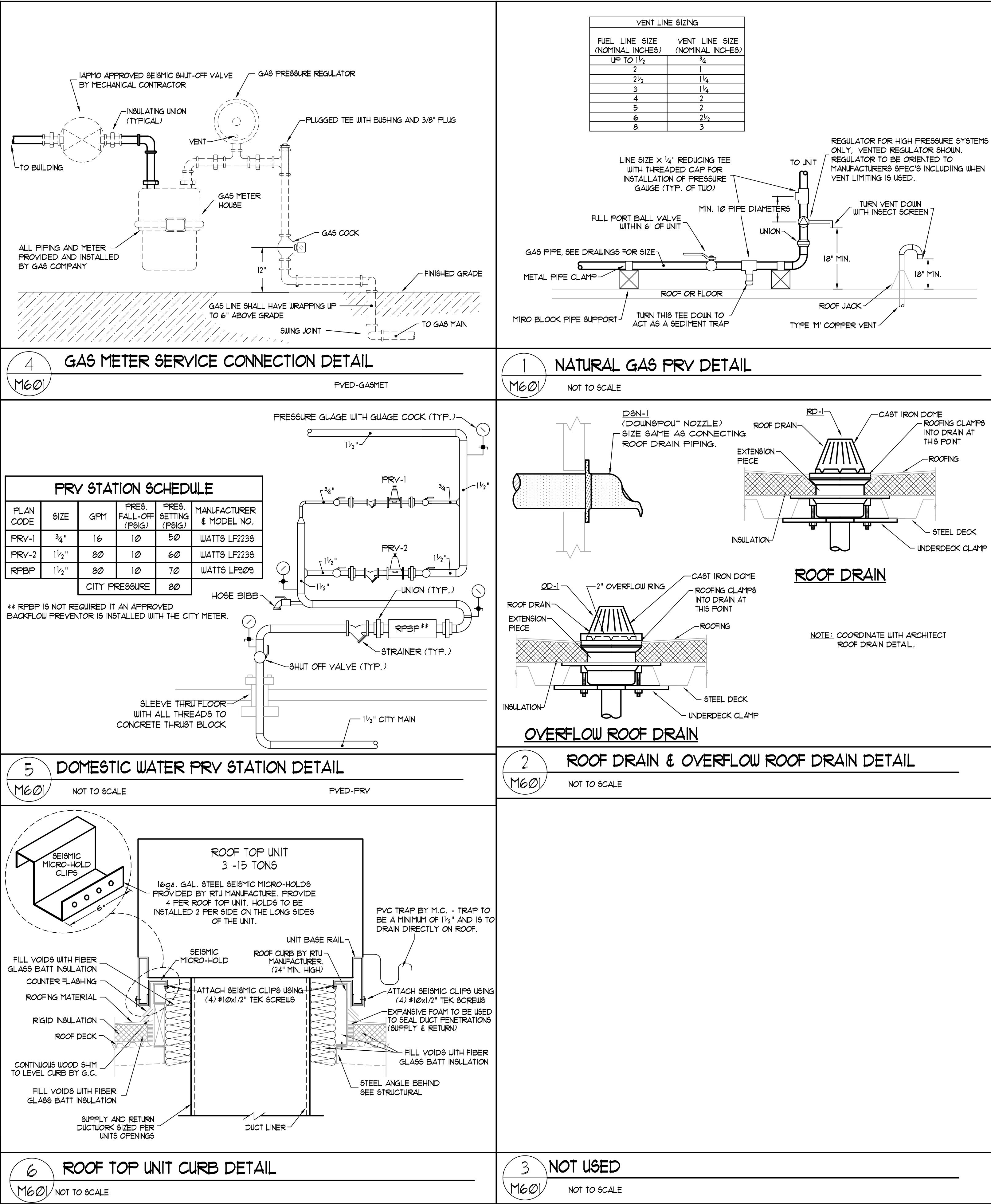
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MECHANICAL  
FLOOR PLAN

M201



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RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

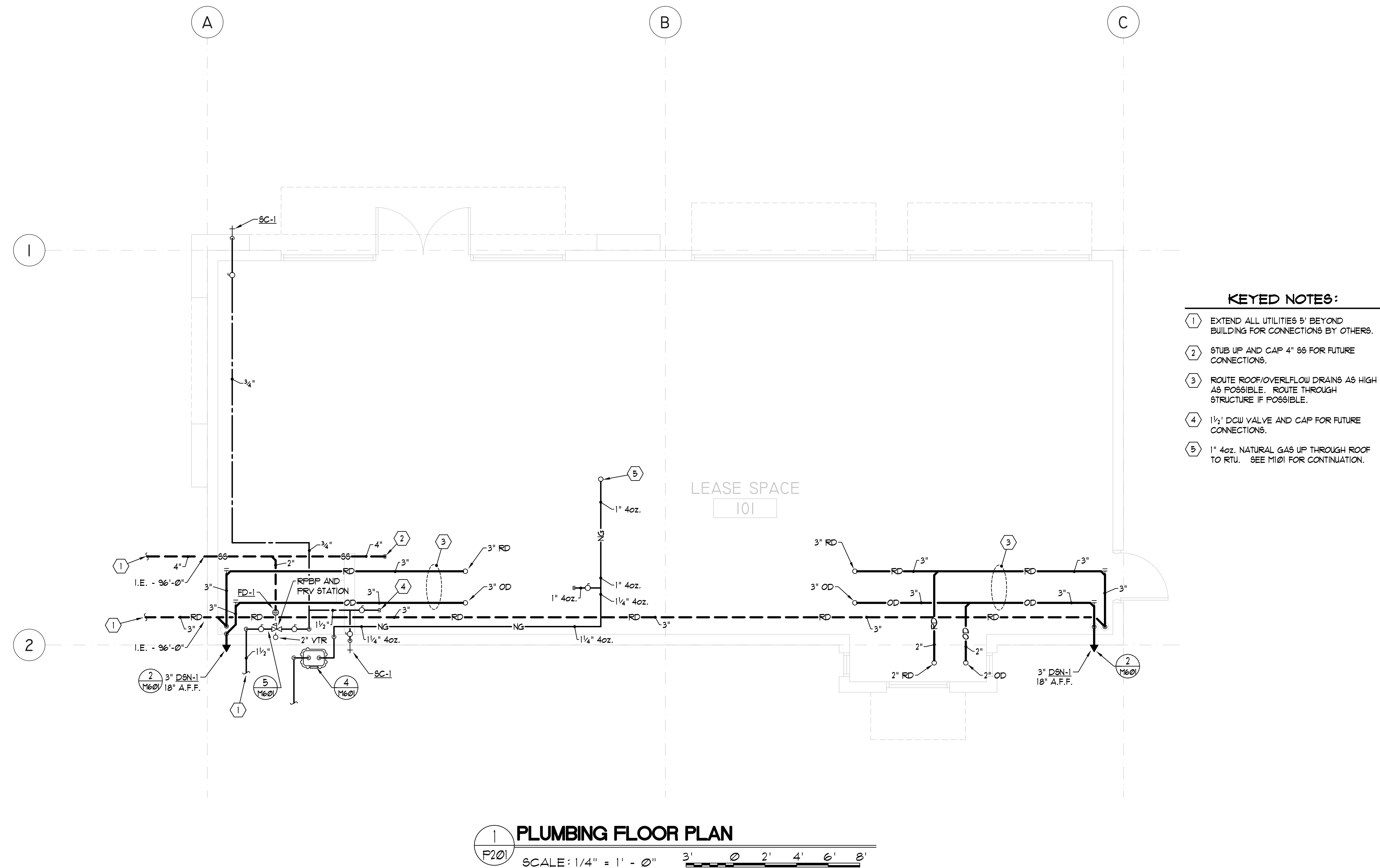
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CAD DWG FILE NO:

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DESIGNED BY: JE  
DWG TYPE:  
ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

MECHANICAL  
AND PLUMBING  
DETAILS

M601



5-14-21

RETAIL BUILDING  
SANTAQUIN PAD A

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION


































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SHEET TITLE

PLUMBING  
FLOOR PLAN

P201

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	TELEPHONE OUTLET, SINGLE PORT	18"	
	TELEPHONE OUTLET, CUSTOM HEIGHT		(6)
	DATA OUTLET, DUAL PORT	18"	
	DATA OUTLET, CUSTOM HEIGHT		(6)
	DUAL DATA AND SINGLE TELEPHONE PORT	18"	
	DUAL DATA AND SINGLE TELEPHONE PORT, CUSTOM HEIGHT		(6)
	DATA OUTLET, ATTRIBUTE SIGNIFIES PORT QUANTITY	18"	
	TELEPHONE OUTLET, SINGLE PORT, FLOOR MOUNTED	FLOOR	
	DATA OUTLET, DUAL PORT, FLOOR MOUNTED	FLOOR	
	TELEVISION OUTLET	AS NOTED	(6) (11)
	CEILING WI-FI ACCESS POINT	CEILING	
	MECHANICAL/PLUMBING EQUIPMENT CALLOUT		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	KITCHEN EQUIP. CALLOUT, OR AS NOTED BY ARCH.		
	LUMINAIRE TYPE		
	DIAGRAM/DETAIL CALLOUT		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	SURFACE RACEWAY/WIRE MOLD		
	LOW VOLTAGE CONDUIT RUN		
	DEMOLITION		
	EXISTING		
	HOME RUN TO PANEL		
	CONDUIT STUB		
	CONDUIT BREAK/CONTINUATION		
	CONDUIT STUB DOWN		
	CONDUIT STUB UP		
	CONDUIT STUB UP W/ EQUIPMENT CONNECTION		
	J-BOX IN WALL W/ EQUIPMENT CONNECTION		
	FUSE		
	GROUND/GROUND ROD		
	CIRCUIT BREAKER		
	ACCESS CONTROL POWER SUPPLY		





























































#### ABBREVIATIONS
















A	AMPS	ENT	ELEC. NON-METAL. TUBING	NL	NIGHT LIGHT, BYPASS
AF	AVAILABLE FAULT CURRENT	EX	EXISTING TO BE RELOCATED	PC	LOCAL SWITCHING
AF	ABOVE FINISHED FLOOR	EX	EXISTING TO REMAIN	PC	PLUMBING CONTRACTOR
AF	ABOVE FINISHED GRADE	FMC	FLEXIBLE METAL CONDUIT	POC	POINT OF CONNECTION
AIC	AMPS INTERRUPT. CAPACITY	GC	GENERAL CONTRACTOR	POS	POINT OF SALE
AWG	AMERICAN WIRE GAUGE	GEC	GROUNDING ELEC. COND. AT SES	R	RELOCATED
BC	BARE COPPER	GFCI	GROUND-FAULT-CIRCUIT INTERRUPTER	RM	ROOF MOUNTED
BFC	BELOW FINISHED CEILING	GND	GROUND	RMC	RIGID METALLIC CONDUIT
BFG	BELOW FINISHED GRADE	IMC	INTER. METAL CONDUIT	RNC	RIGID NON-METALLIC COND.
C	CONDUIT	IG	ISOLATED GROUND	SBJ	SYSTEM BONDING JUMPER
CND	CONDUIT	KCMIL	1000 CIRCULAR MILS (MCM)	SCA	SHORT CIRCUIT AMPERES
CO	CONDUIT ONLY	LFMC	LIQUID-TIGHT FLEX.	T	TRANSMITTER
CT	CURRENT TRANSducer		METAL COND.	TC	TEMP. CONTROL CONTR.
CU	COPPER MATERIAL	LFNC	LIQUID-TIGHT FLEX.	UG	UNDERGROUND
DED	DEDICATED		NON-METAL. COND.	UNO	UNLESS NOTED OTHERWISE
DFA	DROP FROM ABOVE	MC	MECHANICAL CONTRACTOR	VA	VOLTAIR
EC	ELECTRICAL CONTRACTOR	MCA	MINIMUM CIRCUIT AMPS	VF	VERIFY IN FIELD
EF	EXHAUST FAN	N1	NEMA 1	WP	WEATHERPROOF/NEMA 3R
EM	EMERGENCY BATTERY	N3R	NEMA 3R	XP	EXPLOSION PROOF
EMT	ELEC. METALLIC TUBING	N	NEW	XR	EXISTING TO BE REMOVED

#### NOTES

- SEE LUMINAIRE SCHEDULE FOR FIXTURE TYPES AND DETAILS.
- SEE LUMINAIRE SCHEDULE FOR MOUNTING REQUIREMENTS.
- WIRE LIGHT FIXTURE FROM ADJACENT J-BOX
- CONNECT NEAREST UN-SWITCHED HOT CONDUCTOR TO EMERGENCY BALLAST
- DIRECTIONAL ARROWS INDICATE REQUIRED CHEVRONS
- COORDINATE MOUNTING HEIGHT WITH ARCHITECTURAL INTERIOR ELEVATIONS
- USE WITH POWER PACK
- "X" IN SYMBOL IS INCHES BETWEEN RECEPTACLE ALONG WIREWAY. SEE DRAWINGS.
- PROVIDE UL LISTED DEVICE COMPATIBLE WITH THE FIRE ALARM PANEL/SYSTEM.
- MATCH THE VOLTAGE OF THE RELAY WITH THAT OF THE CONTROLLING CIRCUIT.
- USE A 4" X 4" BOX WITH A MUD RING TO MATCH THE DEVICE AND INSTALLATION.
- PROVIDE MUD RING AND/OR BOX COVER APPROPRIATE FOR DEVICE/FIXTURE SERVED.
- USE HEAVY DUTY DEVICE FOR 480 VOLT.
- SIZE TO THE EQUIPMENT BEING CONTROLLED
- FIRE ALARM PANELS: FACP: FIRE ALARM CONTROL PANEL, NAC: NOTIFICATION APPLIANCE PANEL, ANNUN: GRAPHIC ANNUNCIATOR PANEL, AND SES: SMOKE EVACUATION SYSTEM PANEL.
- LIGHT FIXTURES ARE SCALED WITHIN THE DRAWINGS BASED ON ACTUAL DIMENSIONS.

CIRCUIT

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
(S) (D) (Q)	(S) SIMPLEX (D) DUPLEX (Q) QUADPLEX OR DOUBLE DUPLEX		
	STANDARD CONVENIENCE OUTLET	18"	
	CONVENIENCE OUTLET, GFCI	18"	
	STANDARD CONVENIENCE OUTLET, EMERGENCY	18"	
	STANDARD CONVENIENCE OUTLET, SWITCHED	18"	
	STANDARD CONVENIENCE OUTLET, CUSTOM HEIGHT		
	CONVENIENCE OUTLET, GFCI, CUSTOM HEIGHT		
	CONVENIENCE OUTLET, ISOLATED GROUND	18"	
	CONVENIENCE OUTLET, FLOOR	FLOOR	
	CONVENIENCE OUTLET, CEILING	CEILING	
	2 CIRCUITS TO EACH DEVICE	18"	
	COMBINATION POWER AND COMMUNICATION FLOOR BOX	FLOOR	
	SPECIAL PURPOSE OUTLET		
	DIRECT CONNECTION TO EQUIPMENT		
	CORD DROP OUTLET	SUSPENDED	
	POWER/VOICE/DATA SERVICE POLE	AS NOTED	
	DISTRIBUTION JUNCTION UNIT		
	VARIABLE FREQUENCY DRIVE		
	TRANSIENT VOLTAGE SURGE SUPPRESSION		
	JUNCTION BOX	AS NOTED	(12)
	JUNCTION BOX, WALL	AS NOTED	(12)
	JUNCTION BOX, FLOOR	FLOOR	(12)
	CLOCK OUTLET		(*)
	MANUAL MOTOR CONTROLLER SWITCH WITHOUT TERMINAL OVERLOAD PROTECTION		
	SWITCH WITH PILOT LIGHT		
	MANUAL SWITCH WITH THERMAL OVERLOAD		
	SINGLE POLE DOOR SWITCH		
	PUSH BUTTON SWITCH, SINGLE	AS NOTED	
	PUSH BUTTON SWITCH, DOUBLE	AS NOTED	
	BUSH BUTTON SWITCH, TRIPLE	AS NOTED	
	EMERGENCY POWER OFF (EPO) SWITCH		
	NON-FUSED DISCONNECT SWITCH		(13) (14)
	FUSED DISCONNECT SWITCH		(13) (14)
	MAGNETIC STARTER		(13) (14)
	MAGNETIC STARTER WITH FUSED DISCONNECT		(13) (14)
	MAGNETIC STARTER WITH BREAKER DISCONNECT		(13) (14)
	POWER RELAY		(13) (14)
	MOTOR OUTLET		
	MOTOR OUTLET, ROOF MOUNTED	ROOF	
	POKE THRU		
	TRANSFORMER	SEE PLANS	
	MAIN DISTRIBUTION POWER PANEL		
	PANEL BOARD, SURFACE	6'-6" TO TOP	(15)
	PANEL BOARD, RECESSED	6'-6" TO TOP	(15)
	SPEAKER	CEILING	
	SPEAKER, WALL	AS NOTED	(11)
	BELL, WALL	AS NOTED	
	CHIME, WALL	AS NOTED	
	SECURITY CAMERA, FIXED	CEILING	
	SECURITY CAMERA, PTZ OR 360 DEGREE	CEILING	
	SECURITY CAMERA, FIXED, WALL	AS NOTED	(11)
	SECURITY CAMERA, PTZ, WALL	AS NOTED	(11)
	CARD READER	4'-0"	(11)
	DOOR CONTACT	4'-0"	(11)
	REQUEST TO EXIT	4'-0"	(11)
	KEYPAD	4'-0"	(11)
	MAIN DISTRIBUTION FRAME	6'-6" TO TOP	
	INTERMEDIATE DISTRIBUTION FRAME	6'-6" TO TOP	
	MAIN TELEPHONE BOARD	6'-6" TO TOP	
	SECURITY PANEL, SURFACE	AS NOTED	
	SECURITY PANEL, RECESSED	AS NOTED	

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DEVICE/FIXTURE DESCRIPTION	MOUNTING	COMMENTS
	2x4 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x4 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	2x2 LINEAR EMERGENCY LIGHT FIXTURE	CEILING	(1) (2) (3) (16)
	DOUBLE PENDANT FIXTURE	CEILING	(1) (3)
	RECESSED LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED EMERGENCY LIGHT FIXTURE	CEILING	(1) (3)
	RECESSED WALL WASH LIGHT FIXTURE	CEILING	(1) (3)
	CEILING LIGHT FIXTURE	CEILING	(1) (2)
	PENDANT/CHANDELIER LIGHT FIXTURE	SUSPENDED	(1) (2) (3)
	WALL LIGHT FIXTURE, SURFACE	AS NOTED	(1) (2)
	WALL LIGHT FIXTURE, RECESSED	AS NOTED	(1) (2)
	TRACK LIGHT FIXTURE WITH TRACK	CEILING	(1) (2) (3)
	CEILING FAN	SUSPENDED	
	FLOOD/LANDSCAPE/MONUMENT LIGHT FIXTURE	GROUND	(1) (2) (3)
	AREA LIGHT FIXTURE	POLE	(1) (2)
	EXIT SIGN, WALL	7'-6"	(1) (2) (4) (5)
	EXIT SIGN	CEILING	(1) (4) (5)
	EMERGENCY LIGHT FIXTURE, WALL	7'-6"	(1) (2)
	PHOTO-ELECTRIC CELL	AS NOTED	
	POWER PACK	CEILING	
	SLAVE PACK	CEILING	
	EMERGENCY CONTROL UNIT	CEILING	
	DUAL TECHNOLOGY VACUANCY SENSOR	CEILING	(7)
	DUAL TECHNOLOGY VAC. SENSOR, WALL	AS NOTED	(7)
	DAYLIGHT SENSOR	CEILING	
	SINGLE POLE SWITCH	4'-0"	
	DOUBLE POLE, SINGLE THROW SWITCH	4'-0"	
	THREE WAY SWITCH	4'-0"	
	THREE WAY SWITCH ATTRIBUTE SIGNIFIES FIXTURE SWITCHING	4'-0"	
	FOUR WAY SWITCH	4'-0"	
	DUAL LEVEL SWITCH BANK	4'-0"	
	DIMMER SWITCH	4'-0"	
	LOW VOLTAGE SWITCH	4'-0"	
	KEYED SWITCH, SINGLE POLE	4'-0"	(15)
	7-DAY TIMER SWITCH, SINGLE POLE	4'-0"	(15)
	TIME CLOCK	AS NOTED	
	SMOKE DETECTOR	CEILING	(9) (11)
	DUCT SMOKE DETECTOR	SEE MECH.	(9)
	HEAT DETECTOR	CEILING	(9) (11)
	FIRE ALARM MANUAL PULL STATION	4'-0"	(9) (11)
	FIRE ALARM STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM HORN	7'-6"	(9) (11)
	FIRE ALARM HORN STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11)
	FIRE ALARM SPEAKER	7'-6"	(9) (11) (18)
	FIRE ALARM SPEAKER STROBE, ATTRIBUTE SIGNIFIES CANDELA RATING	7'-6"	(9) (11) (18)
	FIRE SPRINKLER FLOW BELL	7'-6" AFF	(9)
	FIRE ALARM CHIME	AS NOTED	(9)
	RELAY MODULE		(9)
	MONITOR MODULE		(9)
	CONTROL MODULE		(9)
	PRESSURE SWITCH		(9)
	TAMPER SWITCH		(9)
	FLOW SWITCH		(9)
	FIRE RISER	SEE PLANS	
	FIRE ALARM PANEL, SURFACE	AS NOTED	(15)
	FIRE ALARM PANEL, RECESSED	AS NOTED	(15)

#### GENERAL NOTES

- THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING HIS BID PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIER SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS AT THEIR OWN EXPENSE. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE.
- THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONED ON THE PLANS.
- NO ADDITIONS TO THE CONTRACTOR BID WILL BE ALLOWED FOR CHANGES MADE NECESSARY BY INTERFERENCE WITH OTHER WORK.
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS - ARCHITECTURAL, MECHANICAL, ETC.
- THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL AND STATE CODES AND THE NEC. IF AT ANY TIME DURING CONSTRUCTION, OR AFTER, SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THE CODES LISTED ABOVE, IT SHALL BE CORRECTED AT THE CONTRACTORS EXPENSE.
- ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED FROM. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE TELE/ DATA ROOM FROM WHICH NEW TELE/ DATA OUTLETS WILL BE FED FROM. VERIFY EXISTING PATCH PANEL SPACES AND PROVIDE NEW PATCH PANELS AS NECESSARY TO LAND ALL NEW TELE/ DATA CABLING.
- THE ELECTRICAL CONTRACTOR SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE ELECTRICAL CONTRACTOR SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.
- THE ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL PANELS, CABINETS, DISCONNECT, TRANSFORMERS, ETC. AND SHALL MOVE THE PANELS/EQUIPMENT AT HIS EXPENSE IF REJECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE DESIGNER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.
- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMATIC, NOT INDICATING THE ROUTING REQUIRED. THE EC SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE AND OTHER POTENTIAL OBSTRUCTIONS.
- THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.
- THE ELECTRICAL CONTRACTOR SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES.
- MINIMUM SIZE CONDUIT SHALL BE 3/4" ABOVE GROUND CONDUIT SHALL BE EMT WITH STEEL SET SCREW FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH40) WITH GRC ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.
- FLEXIBLE METAL CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT EXCEED 72" INCHES. USE LFMC IN DAMP OR WET LOCATIONS.
- WIRING DEVICES

ELECTRICAL SPECIFICATIONS								
<p><b>PART 1 - GENERAL</b></p> <p><b>A. DESCRIPTION</b></p> <ol style="list-style-type: none"> <li>FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND TRANSPORTATION AS REQUIRED TO PROPERLY INSTALL A COMPLETE AND OPERABLE ELECTRICAL SYSTEM.</li> </ol> <p><b>B. RULES AND REGULATIONS</b></p> <ol style="list-style-type: none"> <li>ALL WORK AND MATERIALS SHALL BE INSTALLED AS SHOWN AND HEREIN SPECIFIED.</li> <li>THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, STANDARDS, AND AMENDMENTS, AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION, SHALL FORM A PART OF THIS SPECIFICATION THE SAME AS IF HEREIN WRITTEN OUT IN FULL (ALL MATERIALS AND INSTALLATIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS THEREOF):             <ol style="list-style-type: none"> <li>NFPA (NATIONAL FIRE PROTECTION ASSOCIATION), PUBLICATION NUMBER 70, "NATIONAL ELECTRICAL CODE"; PUB. NO. 72E, "AUTOMATIC FIRE DETECTORS".</li> <li>UL (UNDERWRITERS LABORATORIES, INC.).</li> <li>NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION).</li> <li>UBC (UNIFORM BUILDING CODE) AND STANDARD BUILDING CODE.</li> <li>IBC (INTERNATIONAL BUILDING CODE)</li> <li>IFC (INTERNATIONAL FIRE CODE)</li> <li>IECC (INTERNATIONAL ENERGY CONSERVATION CODE)</li> <li>IEC (INTERNATIONAL ELECTRICAL CODE) STATE AND</li> <li>LOCAL BUILDING AUTHORITY AND CODES</li> </ol> </li> <li>NO REQUIREMENT TO THESE DRAWINGS AND SPECIFICATIONS SHALL BE CONSTRUCTED TO VOID ANY OF THE PROVISIONS OF THE ABOVE SPECIFICATIONS AND STANDARDS.</li> </ol> <p><b>C. PERMITS AND INSPECTIONS</b> UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR SHALL APPLY, PAY FOR AND SCHEDULE ALL APPLICABLE PERMITS, FEES AND INSPECTIONS REQUIRED BY ANY AND ALL PUBLIC AUTHORITIES HAVING JURISDICTION AND REQUIRING INSPECTION.</p> <ol style="list-style-type: none"> <li>EC SHALL INCLUDE ALL UTILITY COMPANY CHARGES IN THE BASE BID.</li> </ol> <p><b>D. WORKMANSHIP AND MATERIALS</b></p> <ol style="list-style-type: none"> <li>WORKMANSHIP SHALL BE OF THE BEST QUALITY AND NONE BUT COMPETENT PERSONNEL SKILLED IN THEIR TRADE SHALL BE EMPLOYED. THE CONTRACTOR SHALL FURNISH THE SERVICES OF AN EXPERIENCED SUPERINTENDENT, WHO WILL BE IN CHARGE OF THE EXECUTION OF WORK, UNTIL COMPLETED AND ACCEPTED.</li> <li>UNLESS OTHERWISE HEREIN AFTER SPECIFIED, ALL MATERIALS AND EQUIPMENT UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE NEW, OF BEST GRADE AND AS LISTED IN PRINTED CATALOGS OF THE MANUFACTURER. EACH ARTICLE OF ITS KIND SHALL BE THE STANDARD PRODUCT OF A SINGLE MANUFACTURER.</li> <li>THE OWNER'S REPRESENTATIVE SHALL HAVE THE RIGHT TO ACCEPT OR REJECT MATERIAL EQUIPMENT AND/OR WORKMANSHIP AND DETERMINE WHEN THEY HAVE COMPLIED WITH THE REQUIREMENTS HEREIN SPECIFIED.</li> <li>ALL MANUFACTURED MATERIALS SHALL BE CLEARLY MARKED OR STAMPED WITH THE MANUFACTURER'S NAME AND RATING.</li> <li>REFERENCE TO STANDARDS ARE INTENDED TO BE THE LATEST REVISION OF THE STANDARD SPECIFIED, OR THAT ACCEPTED BY THE AUTHORITY HAVING JURISDICTION.</li> </ol> <p><b>E. MANUFACTURER'S RECOMMENDATIONS</b></p> <ol style="list-style-type: none"> <li>EQUIPMENT INSTALLED UNDER THIS DIVISION OF THE SPECIFICATIONS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.</li> </ol> <p><b>F. GUARANTEE</b> ALL MATERIALS AND EQUIPMENT PROVIDED AND INSTALLED UNDER THIS SECTION SHALL BE GUARANTEED FOR A MINIMUM OF ONE YEAR. SHOULD ANY TROUBLE OR MALFUNCTIONS DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP, THE CONTRACTOR WILL BE HELD LIABLE AND SHALL FURNISH LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CORRECT THE TROUBLE OR MALFUNCTION WITHOUT ADDITIONAL COST TO THE OWNER. ALL DEFECTIVE MATERIAL OR INFERIOR WORKMANSHIP NOTICED DURING THE TIME OF INSTALLATION SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER, AT NO ADDITIONAL COST.</p> <p><b>G. DEFINITIONS</b></p> <ol style="list-style-type: none"> <li>"PROVIDE" - MEANS FURNISH, INSTALL, AND CONNECT, UNLESS OTHERWISE INDICATED.</li> <li>"FURNISH" - MEANS PURCHASE NEW AND DELIVER IN OPERATING ORDER TO PROJECT SITE.</li> <li>"INSTALL" - MEANS TO PHYSICALLY INSTALL THE ITEMS IN-PLACE.</li> <li>"CONNECT" - MEANS MAKE FINAL ELECTRICAL CONNECTIONS FOR A COMPLETE OPERATING PIECE OF EQUIPMENT. THIS INCLUDES PROVIDING CONDUIT, WIRE, TERMINATIONS, ETC. AS APPLICABLE.</li> <li>"OR EQUIVALENT" - MEANS TO PROVIDE EQUIVALENT EQUIPMENT. SUCH EQUIPMENT MUST BE APPROVED BY THE ENGINEER PRIOR TO BIDDING.</li> </ol> <p><b>H. SUBMITTALS</b></p> <ol style="list-style-type: none"> <li>PROVIDE SHOP DRAWINGS AND MANUFACTURER'S LITERATURE OF MATERIALS AND EQUIPMENT AS REQUIRED IN THE GENERAL CONDITIONS, AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND AS LISTED BELOW:</li> <li>CATALOG CUTS             <ol style="list-style-type: none"> <li>CIRCUIT BREAKERS (EACH SIZE AND TYPE)</li> <li>SAFETY SWITCHES</li> <li>MOTOR STARTERS</li> <li>THERMAL SWITCHES</li> <li>LIGHT FIXTURES</li> </ol> </li> </ol> <p>THE ABOVE IS A STANDARD SUBMITTAL REQUIREMENT LIST. ELECTRICAL CONTRACTOR SHALL SUBMIT ALL APPLICABLE ITEMS FOR REVIEW. MATERIAL NOT SUBMITTED AND APPROVED BY THE ARCHITECT, ENGINEER OR OWNER'S REPRESENTATIVE SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS COST IF DIRECTED BY THE ARCHITECT, ENGINEER OR THE OWNER'S REPRESENTATIVE.</p> <p><b>PART 2 - MATERIALS</b></p> <p><b>A. GENERAL</b></p> <ol style="list-style-type: none"> <li>MATERIALS AND EQUIPMENT SHALL BE STANDARD CATALOGED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF THE PRODUCT. UL LISTED, AND SHALL BE THE LATEST STANDARD DESIGN THAT CONFORMS TO SPECIFIED MATERIALS AND EQUIPMENT.</li> </ol> <p><b>B. RACEWAY</b></p> <ol style="list-style-type: none"> <li>ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED IN INTERIOR DRY LOCATIONS.</li> <li>GALVANIZED FLEXIBLE STEEL (FMC) OR LIQUID TIGHT STEEL (LFMC) CONDUIT SHALL BE USED FOR</li> </ol>	<p>CONNECTIONS TO MECHANICAL EQUIPMENT, LUMINAIRES AND TRANSFORMERS AND AS INDICATED ON LIQUID TIGHT CONDUIT SHALL BE USED IN EXTERIOR OR DAMP LOCATIONS.</p> <ol style="list-style-type: none"> <li>SCHEDULE 40 PVC (WITH PVC COATED OR VINYL TAPE DOUBLE WRAPPED RIGID STEEL ELBOWS AND RISES) SHALL BE USED FOR RUNS THAT ARE IN CONTACT WITH THE EARTH.</li> <li>3/4" CONDUIT SHALL BE THE MINIMUM SIZE CONDUIT.</li> <li>OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE RIGID STEEL CONDUIT.</li> </ol> <p><b>C. FITTINGS</b></p> <ol style="list-style-type: none"> <li>ALL FITTINGS SHALL BE STEEL/MALLEABLE IRON WITH INSULATING BUSHINGS.</li> </ol> <p><b>D. OUTLET AND JUNCTION BOXES</b></p> <ol style="list-style-type: none"> <li>BOXES IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE, NOT LESS THAN 4 INCHES SQUARE AND 2 1/8" DEEP; APPLETON, RACO, OR EQUAL.</li> <li>BOXES SHALL BE EQUIPPED WITH PLASTER RINGS, EXTENSION RINGS, AND FIXTURE STUDS AS REQUIRED.</li> <li>BOXES FOR FLOOR OUTLETS SHALL BE OF THE CAST-METAL THREADED-CONDUIT-ENTRANCE, WATERPROOF TYPE WITH MEANS FOR ADJUSTING COVER PLATE TO FINISHED FLOOR LEVEL. BOXES SHALL BE SUCH AS HUBBELL 82503 OR EQUAL. THE COVER SHALL BE HUBBELL S3925, S3082 OR EQUAL TO MATCH THE FLOOR TYPE OR AS SHOWN ON THE PLANS.</li> <li>PROVIDE FLUSH MOUNTING OUTLET BOX IN FINISHED AREAS.</li> <li>BOXES FOR STRUCTURED CABLING (DATA &amp; PHONE) IN INTERIOR DRY LOCATIONS SHALL BE GALVANIZED ONE-PIECE PRESSED STEEL, KNOCKOUT TYPE 4 11/16" x 2 1/8", APPLETON, RAYCO OR EQUAL.</li> <li>ALL BOXES IN FINISHED SPACES SHALL BE PROVIDED WITH MUD RINGS AS REQUIRED FOR THE DEVICE AND WALL MATERIAL.</li> <li>OUTDOOR AND WET OR DAMP LOCATIONS: PROVIDE CAST METAL OR PVC OUTLET, JUNCTION, AND PULL BOXES.</li> </ol> <p><b>E. CONDUCTORS</b></p> <ol style="list-style-type: none"> <li>ALL CONDUCTORS SHALL BE SOFT DRAWN, ANNEALED COPPER IN RACEWAY SIZED AS SHOWN ON THE PLANS. ALL CONDUCTORS TO BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE #8 AWG AND LARGER SHALL BE STRANDED.</li> <li>CONDUCTORS SHALL BE COPPER, THHN OR THWN-2 COLOR CODED IN ACCORDANCE WITH PART 3, SECTION C. 1. OF THESE SPECIFICATIONS OR AS INDICATED ON THE DRAWINGS.</li> </ol> <p><b>F. WIRING CONNECTIONS</b></p> <ol style="list-style-type: none"> <li>MAKE ALL ELECTRICAL CONNECTIONS.</li> <li>MAKE CONNECTION TO DEVICES USING "PIG-TAILS". DO NOT USE A DEVICE AS A CONNECTION OR A SPLICE UNIT.</li> <li>DO NOT PLACE STRANDED CONDUCTORS DIRECTLY UNDER SCREWS. INSTALL CRIMP-ON, INSULATED, FORK TERMINALS FOR CONDUCTOR TERMINATIONS, OR INSTALL SOLID CONDUCTORS.</li> </ol> <p><b>G. NAMEPLATES</b></p> <ol style="list-style-type: none"> <li>PROVIDE EACH PANEL BOARD, DISCONNECT SWITCH, AND BREAKER IN SWITCHBOARD WITH A MICARTA PLASTIC NAMEPLATE MADE OF WHITE-FACED BLACKCORE PLASTIC LAMINATE. NAMEPLATE SHALL BE MINIMUM 3" WIDE BY 3/4" HIGH FOR PANEL BOARD IDENTIFICATION INCLUDE DESIGNATION, PHASE, VOLTAGE, AND CIRCUIT NUMBER. FASTEN WITH EPOXY GLUE. DOUBLE STICK TAPE IS NOT ACCEPTABLE.</li> </ol> <p><b>J. FRACTIONAL HORSEPOWER MANUAL STARTER</b></p> <ol style="list-style-type: none"> <li>PROVIDE FRACTIONAL HORSEPOWER MANUAL STARTER WITH THE FOLLOWING FEATURES.             <ol style="list-style-type: none"> <li>MELTING ALLOY TYPE THERMAL OVERLOAD RELAY</li> <li>RED NEON PILOT LIGHT</li> <li>THERMAL ELEMENT SIZED FOR MOTOR LOAD</li> </ol> </li> <li>PROVIDE A NAMEPLATE ON EACH COMPONENT OF MOTOR CONTROL EQUIPMENT AS SPECIFIED IN "NAMEPLATES".</li> </ol> <p><b>K. SAFETY SWITCHES</b></p> <ol style="list-style-type: none"> <li>THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL SAFETY SWITCHES AS INDICATED ON THE DRAWINGS OR AS REQUIRED. ALL SAFETY SWITCHES SHALL BE UL LISTED. THE SWITCHES SHALL BE FUSED SAFETY SWITCHES OR NON-FUSED SAFETY SWITCHES AS SHOWN ON THE DRAWINGS OR REQUIRED BY CODE AND SHALL BE MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, SIEMENS OR CUTLER HAMMER.</li> <li>SWITCHES SHALL HAVE A QUICK-MAKE AND QUICK-BREAK OPERATING HANDLE AND MECHANISM WHICH SHALL BE AN INTEGRAL PART OF THE BOX. PADLOCKING PROVISIONS SHALL BE PROVIDED FOR PADLOCKING IN THE OFF POSITION WITH AT LEAST THREE PADLOCKS. SWITCHES SHALL BE HORSEPOWER RATED FOR 250 VOLTS AC OR DC OR 600 VOLTS AC AS REQUIRED. LUGS SHALL BE UL LISTED FOR COPPER AND ALUMINUM CABLE AND SHALL HAVE A TEMPERATURE RATING OF AT LEAST 75 DEGREES C.</li> <li>SWITCHES SHALL BE FURNISHED IN NEMA 1 HEAVY DUTY ENCLOSURES WITH KNOCKOUTS UNLESS OTHERWISE NOTED OR REQUIRED. SWITCHES LOCATED ON THE EXTERIOR OF THE BUILDING OR IN "WET" LOCATIONS SHALL HAVE NEMA 3R ENCLOSURES (WP).</li> <li>THE SAFETY SWITCHES SHALL BE SECURELY MOUNTED IN ACCORDANCE WITH THE NEC. THE CONTRACTOR SHALL PROVIDE ALL MOUNTING MATERIALS AND INSTALL FUSES IN THE FUSED SAFETY SWITCHES. THE FUSES SHALL BE DUAL ELEMENT ON MOTOR CIRCUITS.</li> <li>PROVIDE FUSES AS SPECIFIED BELOW. FUSES SHALL BE INSTALLED SO THAT THE RATING IS CLEARLY VISIBLE WITHOUT REMOVING FUSE. PROVIDE A SPARE FUSE FOR EACH FUSE INSTALLED.</li> <li>PROVIDE A NAMEPLATE ON EACH DISCONNECT SWITCH AS SPECIFIED IN "NAMEPLATES".</li> </ol> <p><b>L. FUSES</b></p> <ol style="list-style-type: none"> <li>FUSES SHALL BE CLASS "RK-1" REJECTION TYPE. FUSES SERVING MOTOR LOADS SHALL BE DUAL ELEMENT WITH A MINIMUM TIME DELAY OF 10 SECONDS AT 500% RATING. FUSES SHALL BE CURRENT LIMITING TIME DELAY TYPE WITH INTERRUPTING CAPACITY OF 200,000 AMP RMS SYMMETRICAL.</li> <li>FUSES SERVING SWITCH OR CIRCUIT BREAKER DISTRIBUTION PANELS, LIGHTING PANEL BOARDS AND OTHER NON - MOTOR LOADS NEED NOT BE TIME DELAY TYPE, BUT SHALL BE CURRENT LIMITING WITH THE INTERRUPTING CAPACITY OF 200,000AMP RMS SYMMETRICAL MINIMUM. FUSES SHALL BE BUSSMAN, GOULD OR LITTELFUSE.</li> <li>PROVIDE FUSES SIZED TO THE MAXIMUM SIZE RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT OR AS SHOWN ON THE DRAWINGS IF THE MANUFACTURER DOES NOT HAVE A RECOMMENDED SIZE.</li> </ol>	<p><b>B. RACEWAYS</b></p> <ol style="list-style-type: none"> <li>RACEWAYS SHALL RUN CONCEALED UNLESS OTHERWISE INDICATED. EXPOSED RACEWAY RUNS SHALL BE PARALLEL WITH SUPPORTING WALLS, BEAMS, AND CEILINGS AND WITH EACH OTHER CLOSER THAN 6 INCHES TO ANY WATER PIPE OR HEATER BE INSTALLED AND SHALL NOT FLUME.</li> <li>RACEWAY ENDS SHALL BE REAMED AFTER THREADING AND AFTER CUTTING AND BE MADE TO BUTT IN THE CENTER OF THE COUPLING. THE USE OF RUNNING THREADS IS PROHIBITED.</li> <li>RACEWAYS SHALL BE INSTALLED AS A COMPLETE SYSTEM, CONTINUOUS FROM OUTLET TO OUTLET, CABINET, BOX OR FITTINGS, AND SHALL BE MECHANICALLY CONNECTED SO THAT ADEQUATE ELECTRICAL CONTINUITY FROM ONE TO ANOTHER IS OBTAINED. CONDUITS SHALL BE SUPPORTED WITH ONE OR TWO HOLE STAMPED STEEL OR MALLEABLE IRON STRAPS (SUCH AS MANUFACTURED BY RACO) DESIGNED FOR SUPPORTING CONDUIT. THE SIZE OF STRAP SHALL MATCH THE SIZE OF THE CONDUIT. NAILS, PERFORATED STRAP, OR PLUMBERS TAPE SHALL NOT BE USED FOR SUPPORT OF RACEWAY.</li> <li>PROVIDE 1/8" POLY PULL CORD IN RACEWAYS WITHOUT CONDUCTORS.</li> <li>FOUR 90 DEGREE BENDS MAXIMUM BETWEEN TERMINATIONS OR BOXES.</li> </ol> <p><b>C. CONDUCTORS</b></p> <ol style="list-style-type: none"> <li>ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT AND COLOR CODED AS FOLLOWS:             <table border="1"> <tbody> <tr> <td>PHASE</td><td>208/120</td><td>480/277</td></tr> <tr> <td>PHASE A</td><td>BLACK</td><td>BROWN</td>&lt;/</tr></tbody></table></li></ol>	PHASE	208/120	480/277	PHASE A	BLACK	BROWN
PHASE	208/120	480/277						
PHASE A	BLACK	BROWN						

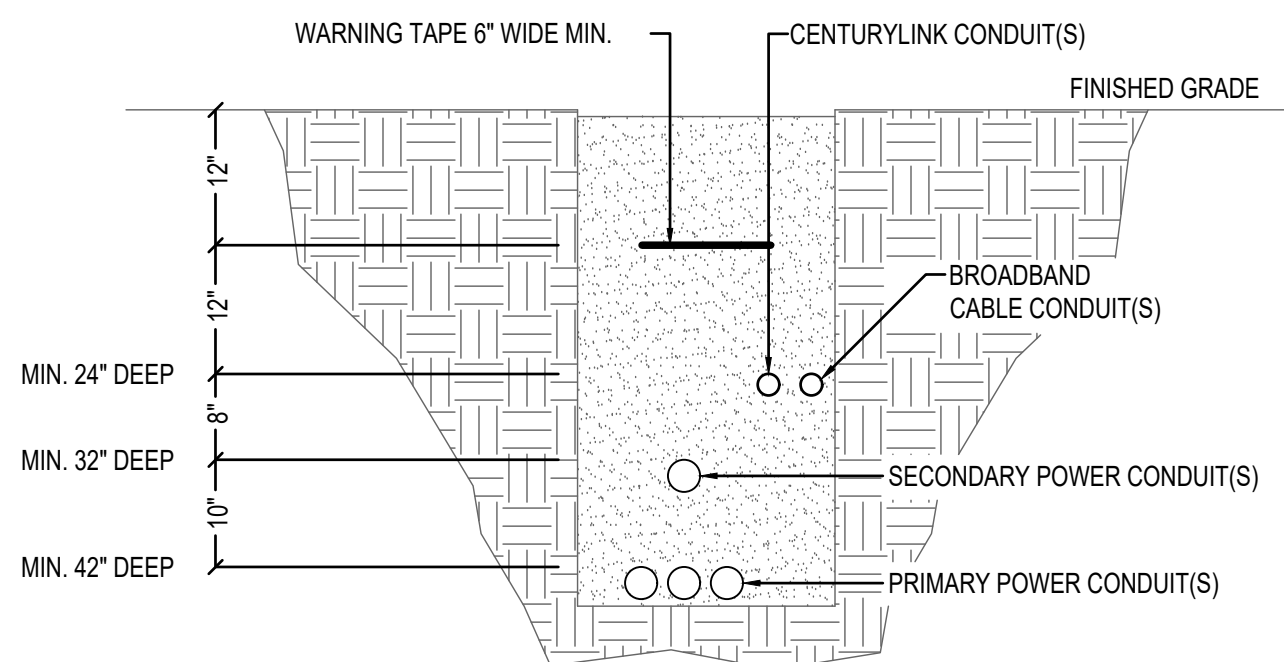
# FIZZ SHELL

SANTAQUIN, UTAH

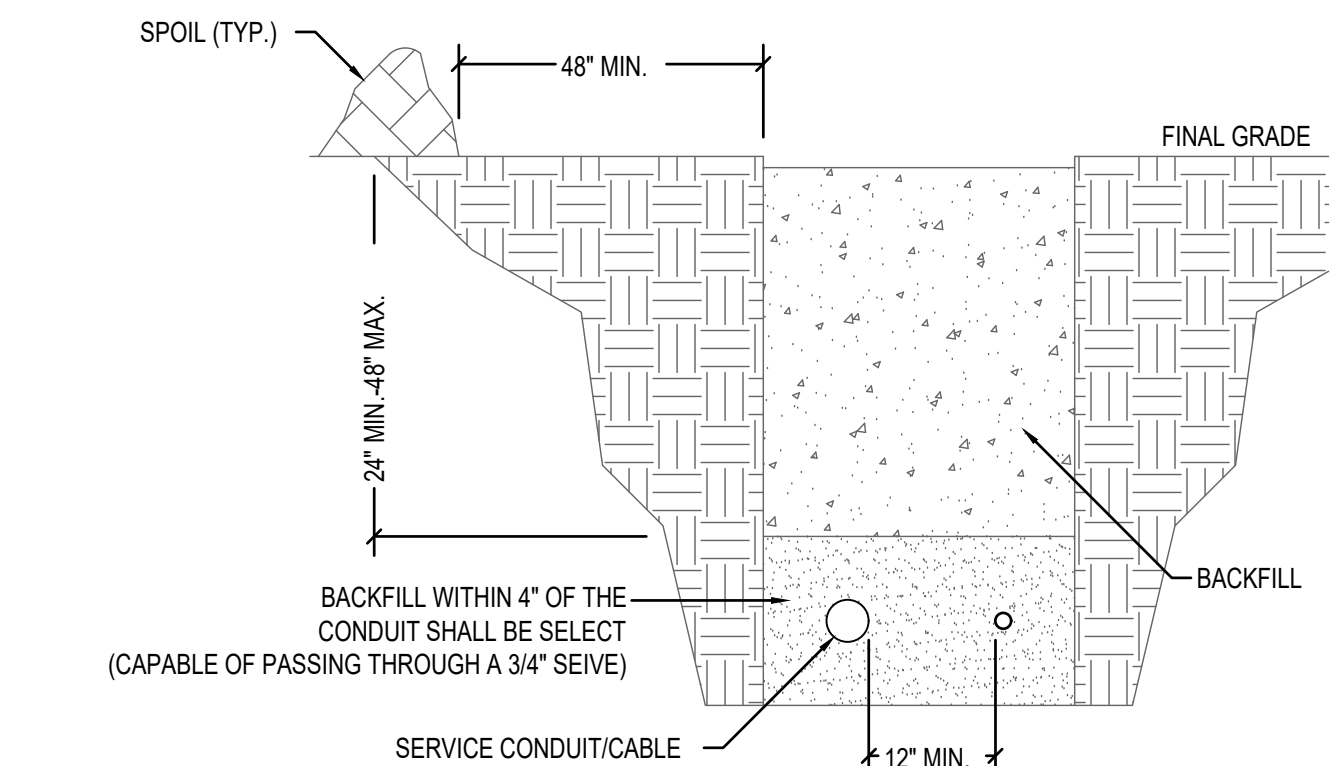
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## ELECTRICAL SPECIFICATIONS

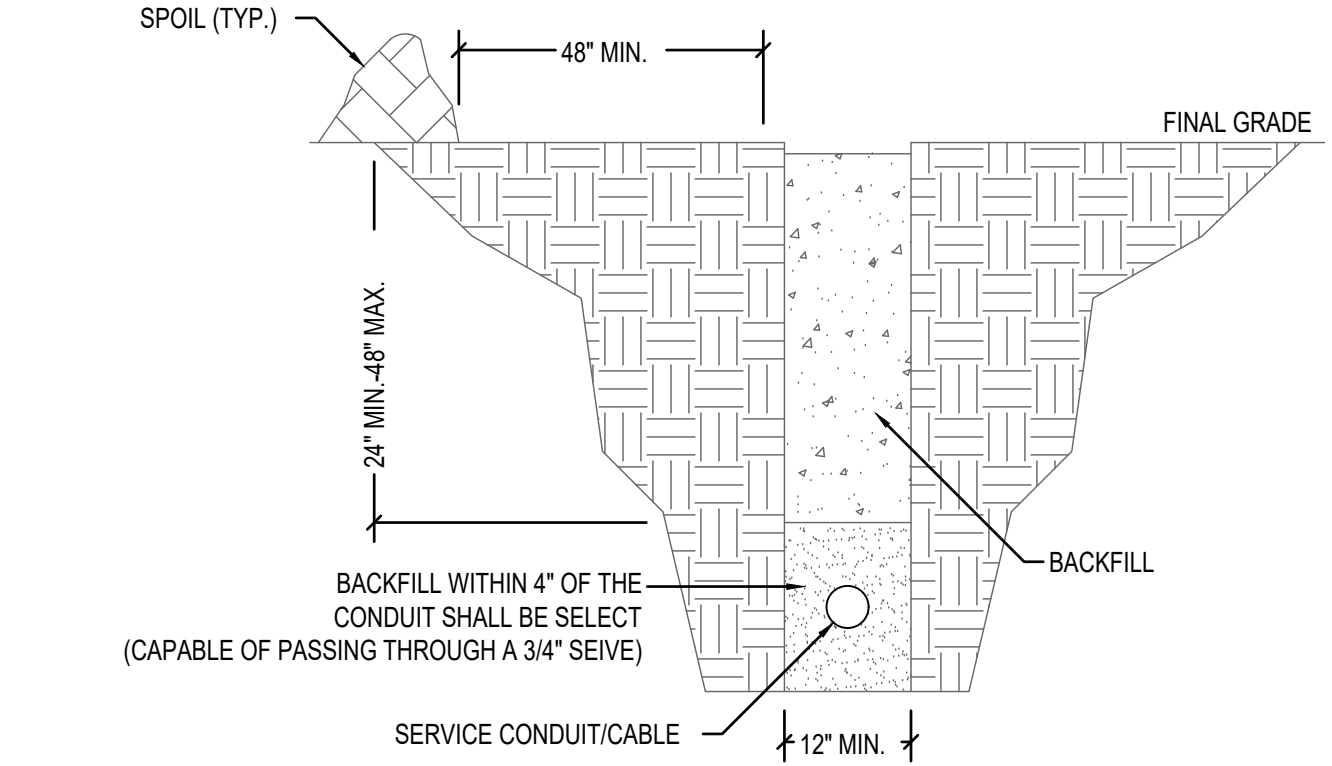
# EG401



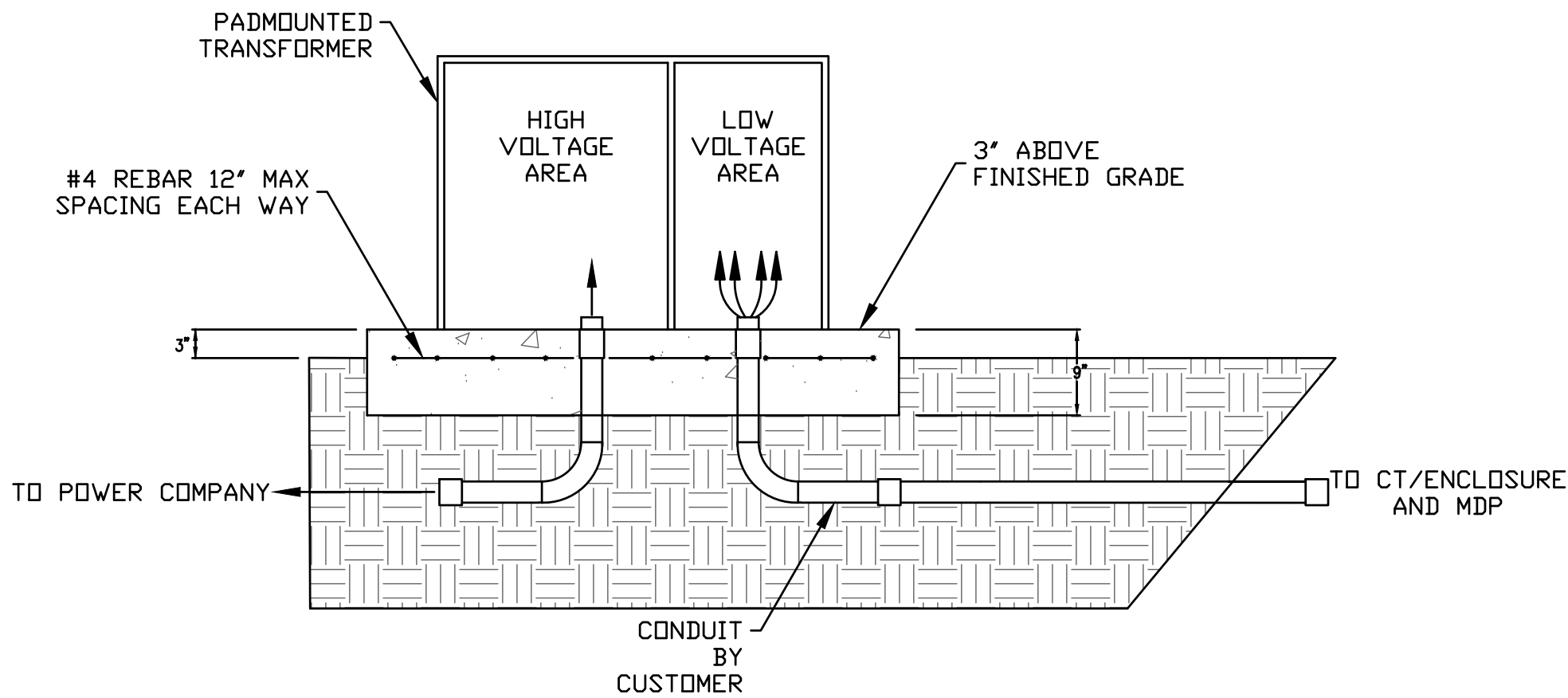
1 JOINT UTILITY TRENCH DETAIL  
EG501 NO SCALE



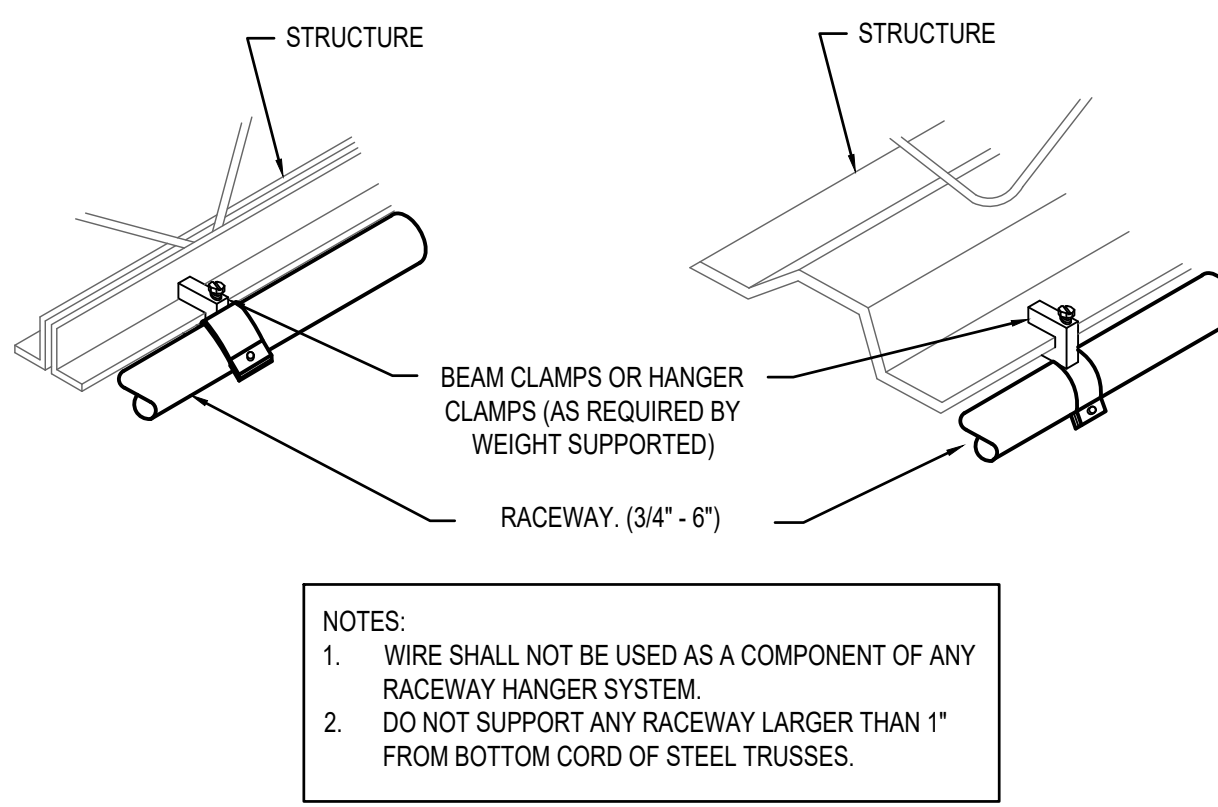
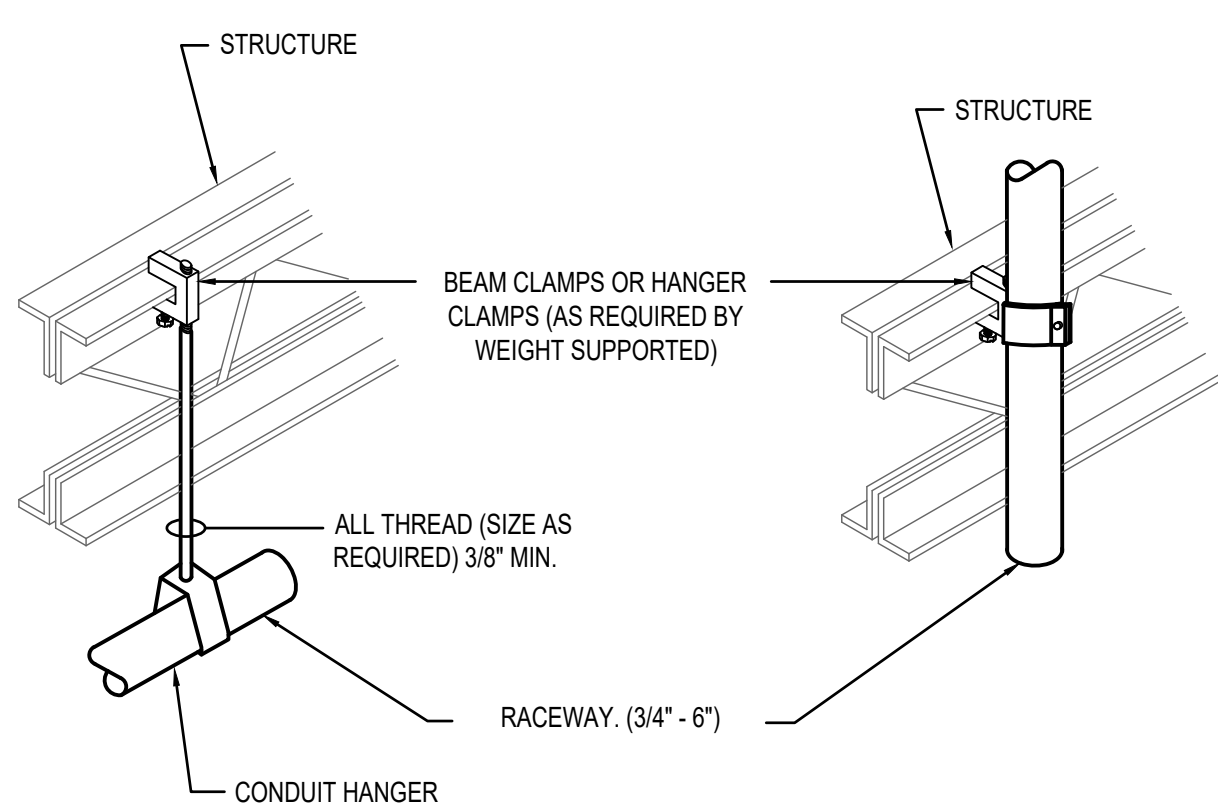
2 JOINT USE SERVICE TRENCH  
EG501 NO SCALE



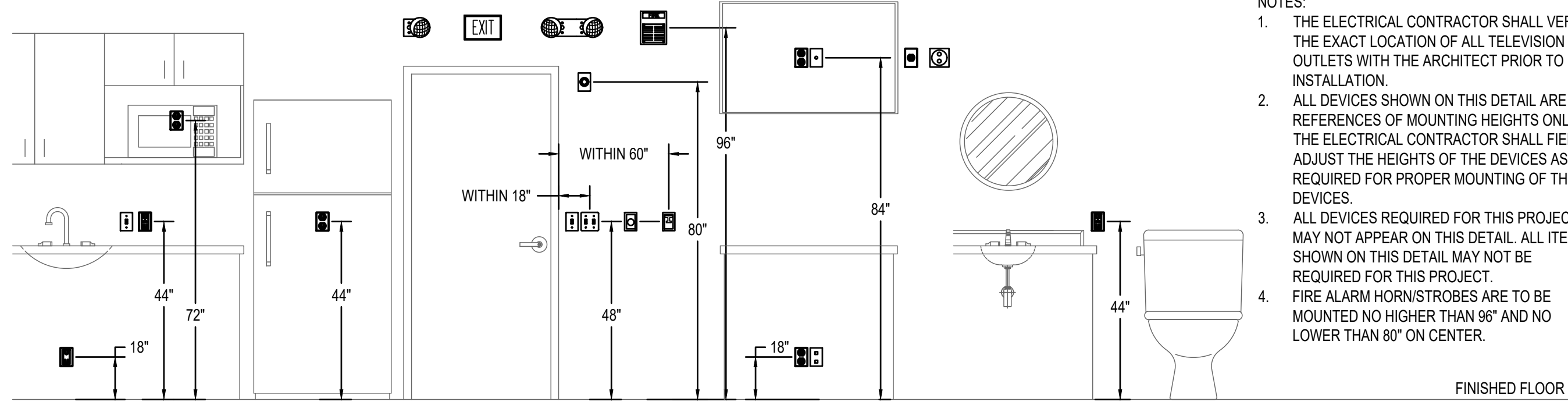
3 SERVICE TRENCH (POWER ONLY)  
EG501 NO SCALE



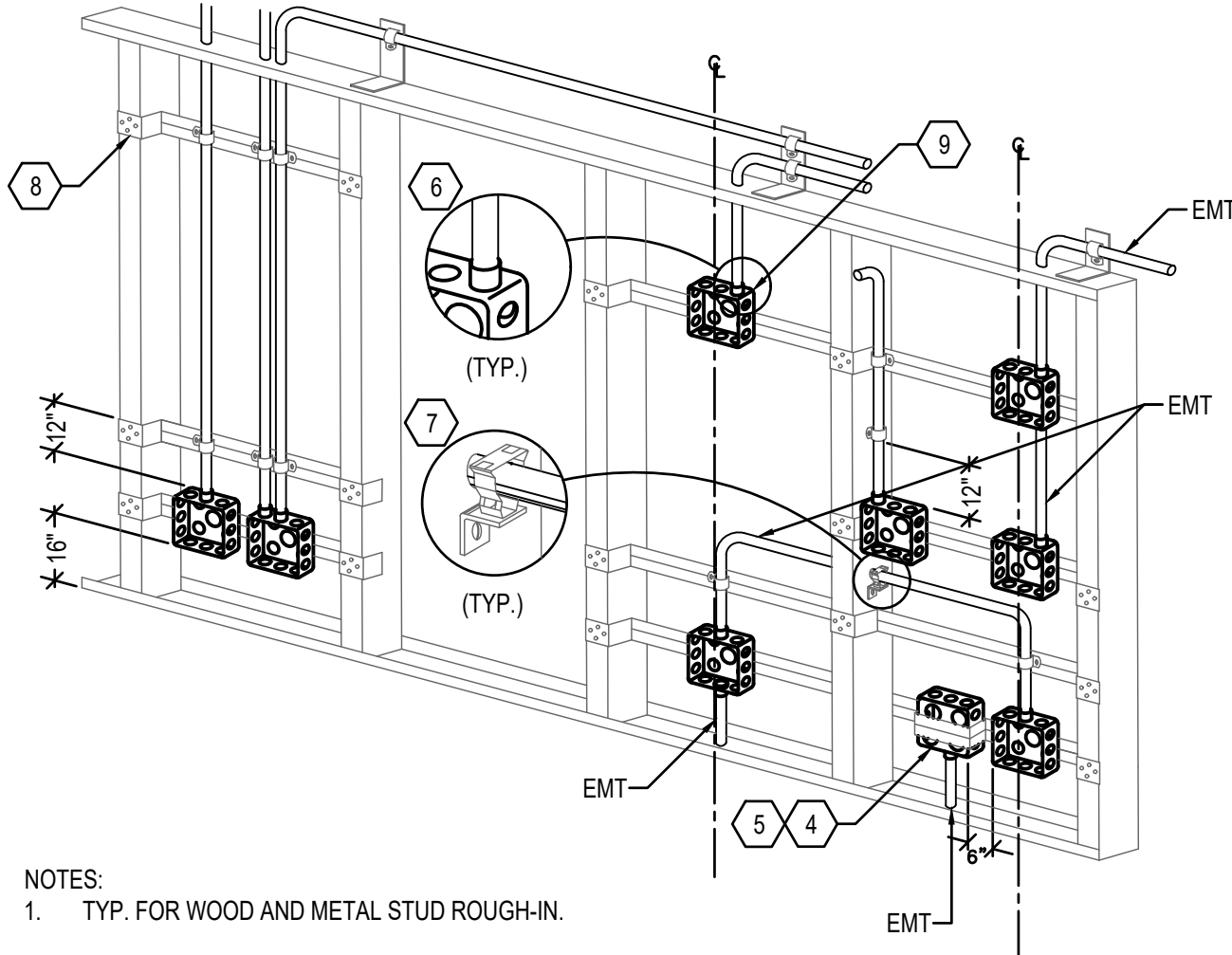
9 CURRENT TRANSFORMER METERING – PAD  
EG501 NO SCALE



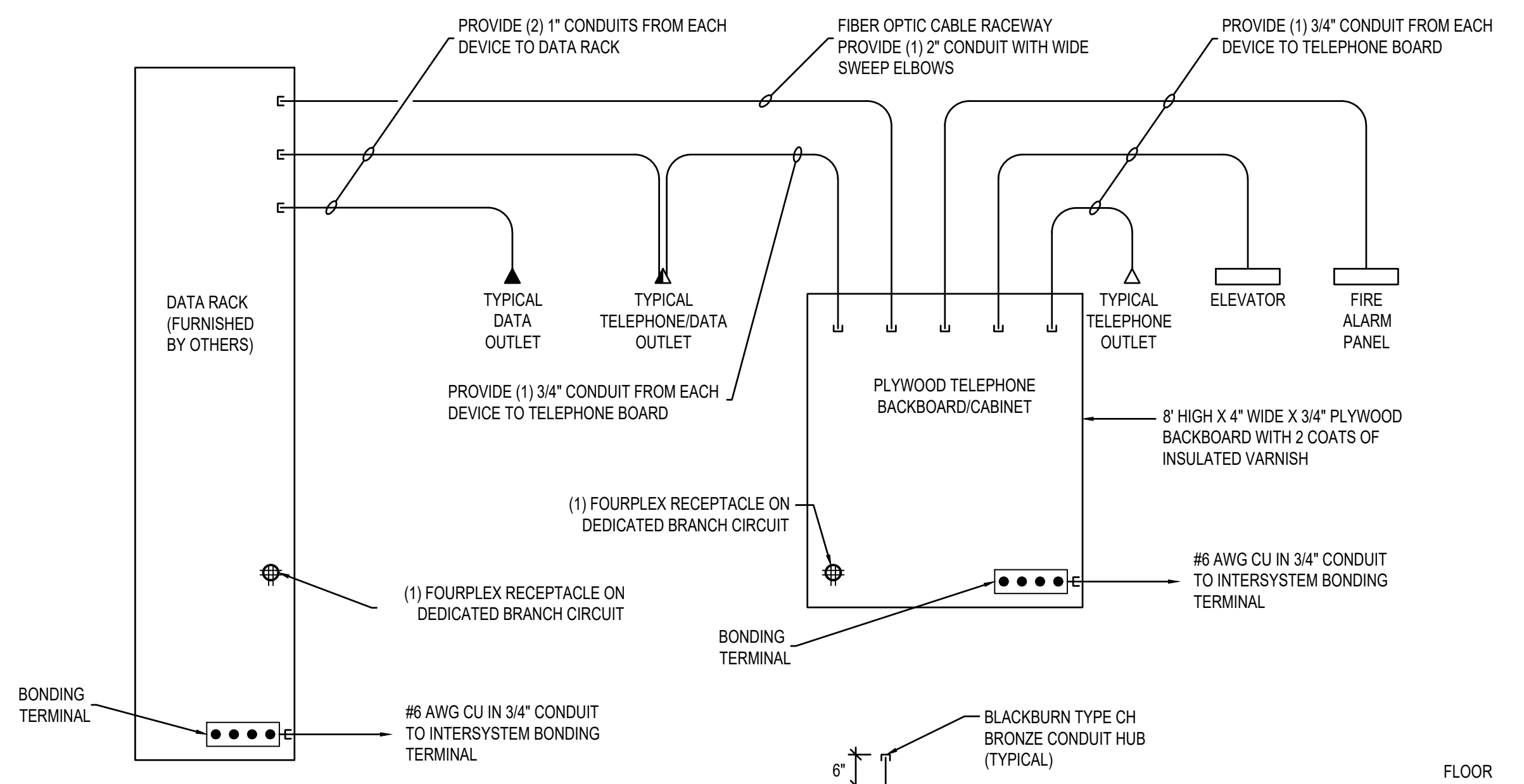
4 RACEWAY SUPPORT METHODS DIAGRAM  
EG501 NO SCALE



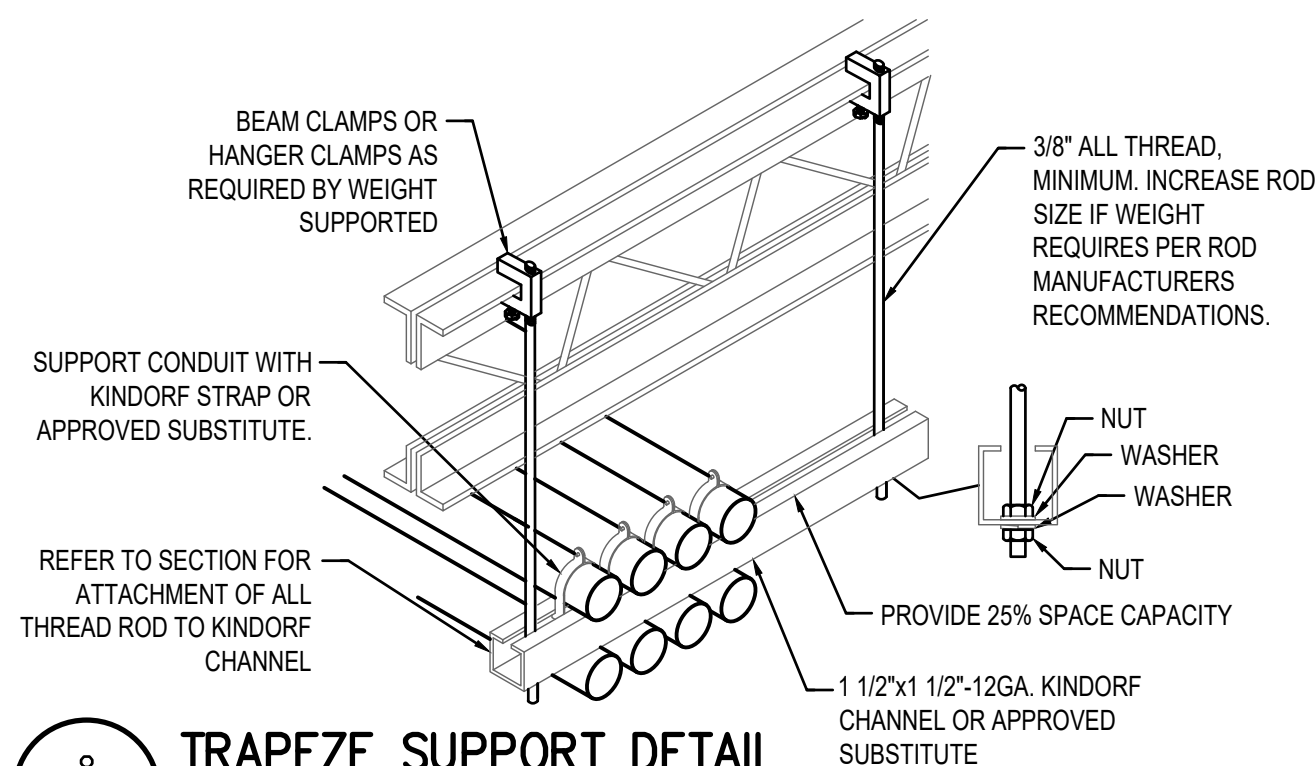
5 MOUNTING HEIGHTS DETAIL  
EG501 NO SCALE



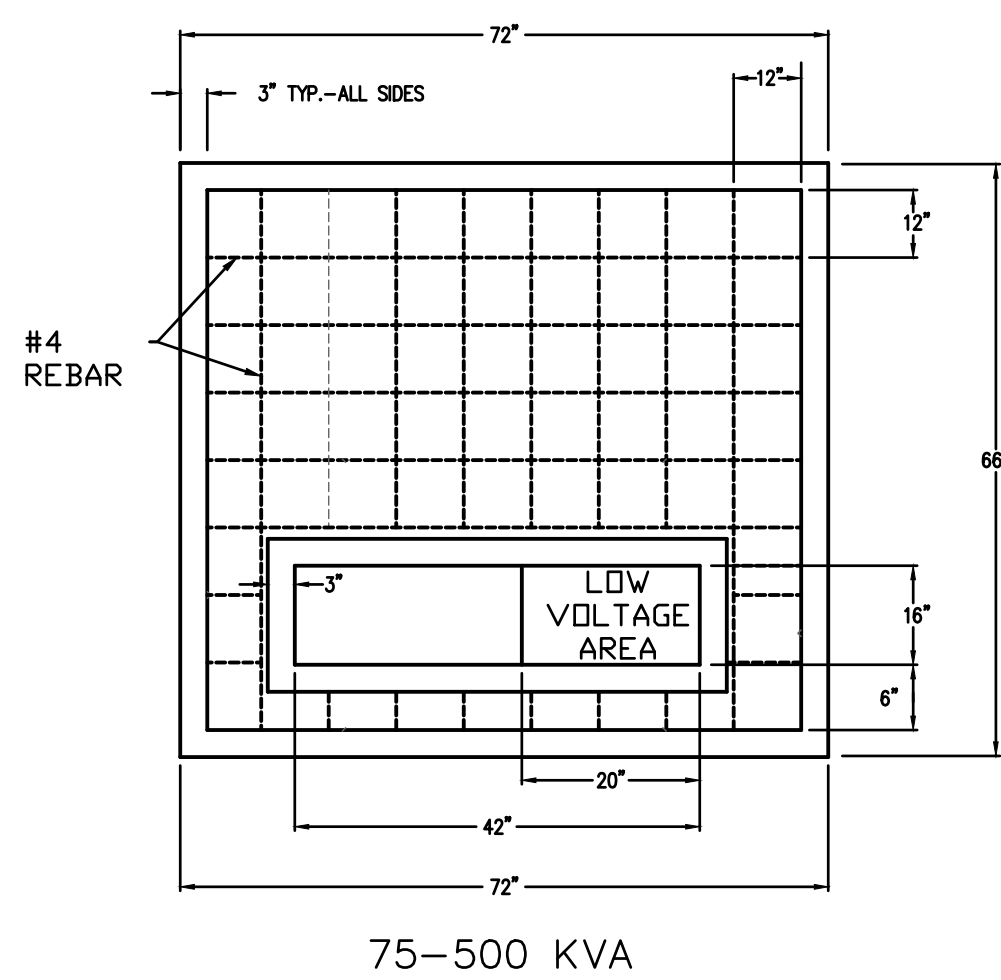
6 TYPICAL ROUGH-IN DETAIL  
EG501 NO SCALE



7 TELEPHONE/DATA RACEWAY DIAGRAM  
EG501 NO SCALE



8 TRAPEZE SUPPORT DETAIL  
EG501 NO SCALE



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FIZZ SHELL

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

DATE: 04/19/2021  
AGENCY PROJECT NO: 20315  
DESIGN SEQUENCE PROJECT NO: 1708.01  
CAD DWG FILE NO:

DRAWN BY: AMC  
DESIGNED BY: KMC  
DWG TYPE:  
ARCHITECTURAL PHASE: PERMIT SET

SHEET TITLE

ELECTRICAL  
DETAILS

EG501

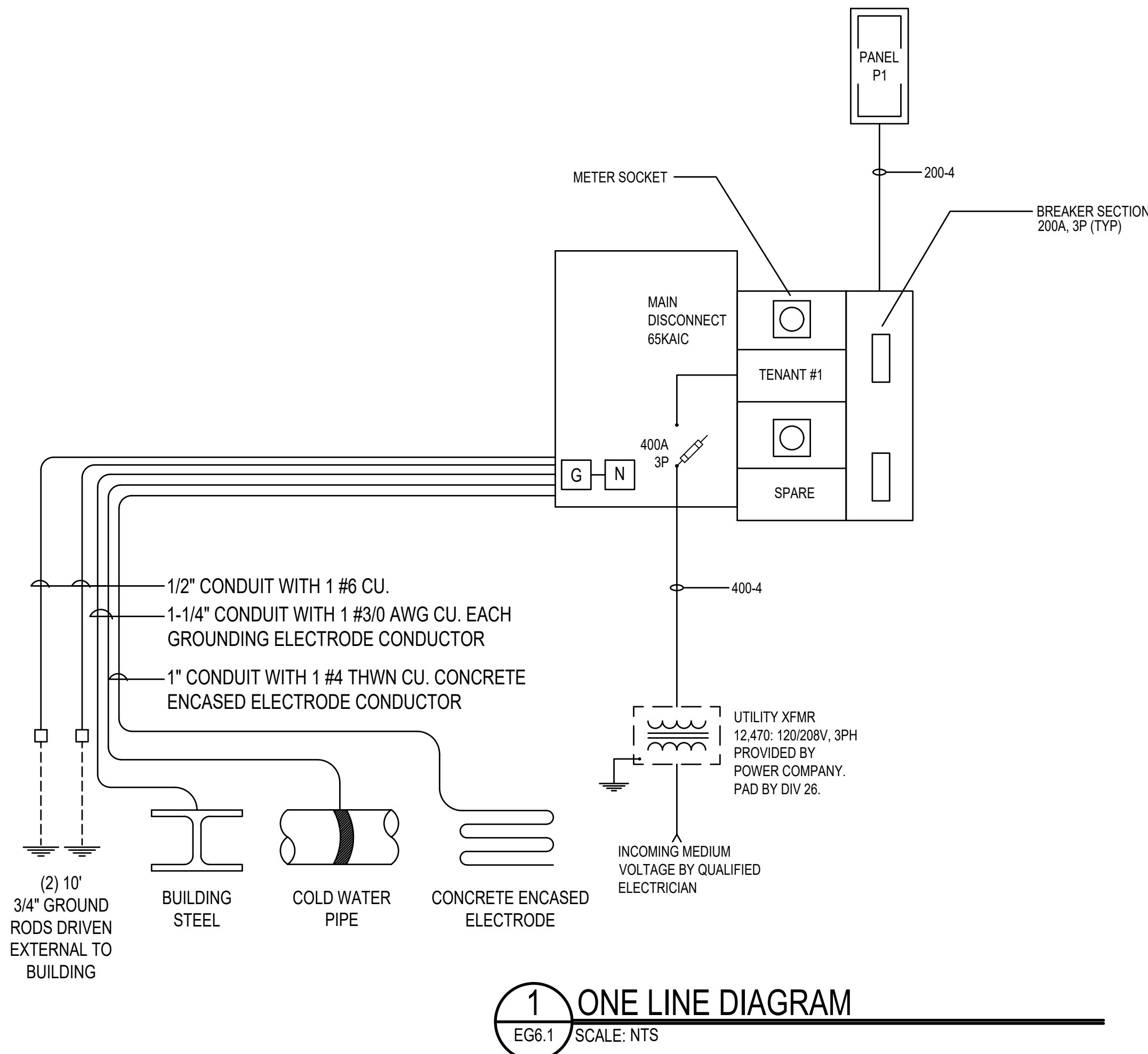
CONDUCTOR & CONDUIT SCHEDULE - ALUMINUM							
TYPE	CONDUCTOR				CONDUIT	KEYED NOTES	
	AMP	SETS	QTY	SIZE	EQ GND		SIZE
200A-4	205	1	4	250	4	3"	1
400A-4	410	2	4	250	1	4"	1

GENERAL NOTES:

- THIN/THW/THWN-2 FOR 400 KCML AND BELOW, XHHW/XHHW-2 FOR 500 KCML AND ABOVE.
- GROUND CONDUCTOR SHALL BE DELETED ON SERVICE ENTRANCE CONDUITS.
- SIZE ALL CONDUITS IN ACCORDANCE WITH LATEST ADOPTED NEC CHAP 9, TABLE 1.

KEYED NOTES:

- 1 REFER TO LATEST ADOPTED NEC 310.15(B)(16) FOR 75° C RATED AL AND 110.14(C)(1)(a) FOR 90° C.
- 2 200% NEUTRAL (OR 2 NEUTRAL CONDUCTORS).
- 3 AMPACITY DERATED BY 80% DUE TO (4-6) CURRENT CARRYING CONDUCTORS AND IS BASED ON LATEST ADOPTED NEC 310.15(B)(16) FOR 90° C RATED.

[illegible][illegible]

NAME: P1

TYPE: NQ

BACK LUG LOCATION

VOLTAGE: 208 / 120

PH 3 WIRES 4

AIC 18K AMPS

MOUNTING: SURFACE

FEED: BOTTOM

MAINS: LUGS ONLY

225 AMPS

DIMS:

20" W

5.75" D

68" H

SPECIAL EQUIPMENT

X GROUND BUS

SUB-FEED BREAKER

SUB-FEED LUGS

NEMA 3R

SURGE PROTECTOR

DF	CKT #	CIRCUIT DESCRIPTION	CODE	P	BRKR AMP	WIRE SIZE	VA LOAD	PHASE VA			VA LOAD	WIRE SIZE	BRKR AMP	P	CODE	CIRCUIT DESCRIPTION	CKT #	DF
								A	B	C								
	1	SPACE						0							1	SPACE	2	
	3	SPACE						0							1	SPACE	4	
	5	SPACE								0					1	SPACE	6	
	7	SPACE						0							1	SPACE	8	
	9	SPACE								0					1	SPACE	10	
	11	SPACE									0				1	SPACE	12	
	13	SPACE						0							1	SPACE	14	
	15	SPACE							0						1	SPACE	16	
	17	SPACE								0					1	SPACE	18	
	19	SPACE									0				1	SPACE	20	
	21	SPACE							0						1	SPACE	22	
	23	SPACE									0				1	SPACE	24	
	25	SPACE						0							1	SPACE	26	
	27	SPACE							0						1	SPACE	28	
	29	SPACE								0					1	SPACE	30	
	31	SPACE									0				1	SPACE	32	
	33	SPACE							0						1	SPACE	34	
	35	SPACE									0				1	SPACE	36	
	37	SPACE						0							1	SPACE	38	
	39	SPACE									0				1	SPACE	40	
	41	SPACE								0					1	SPACE	42	

DIVERSITY FACTORS (DF):

CH=CONTINUOUS

NH=NON-CONTINUOUS

R=RECEPTACLES

KITCHEN EQUIPMENT

CONNECTED VA

0

0

0

0.0 KVA

CODES:

1 = SEE DRAWINGS FOR CONDUIT & CONDUCTOR SIZE

CONNECTED AMPS

0

0

0

0 KVA

2 = SHUNT-TRIP BREAKER

5 = GFCI BREAKER

DIVERSIFIED VA

0

0

0

0 KVA

3 = GFB BREAKER

DIVERSIFIED AMPS

0

0

0

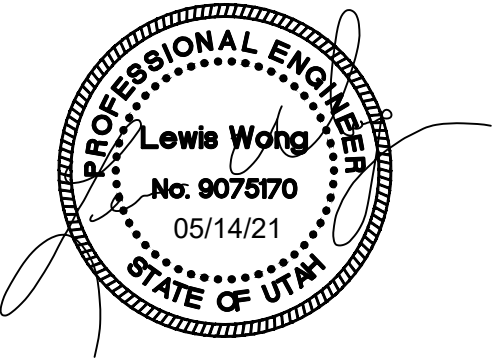
0 A

4 = PROVIDE LOCK OFF DEVICE

THIS PANEL, ALL OF ITS LUGS, BREAKERS, ETC. SHALL BE RATED FOR 75 °C

NOTES:

GC SHALL PROVIDE PANEL AND MAKE FINAL CONNECTION OF FEEDER. ALL OTHER WORK TO BE COMPLETED BY THE T-1 CONTRACTOR.



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## FIZZ SHELL

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION

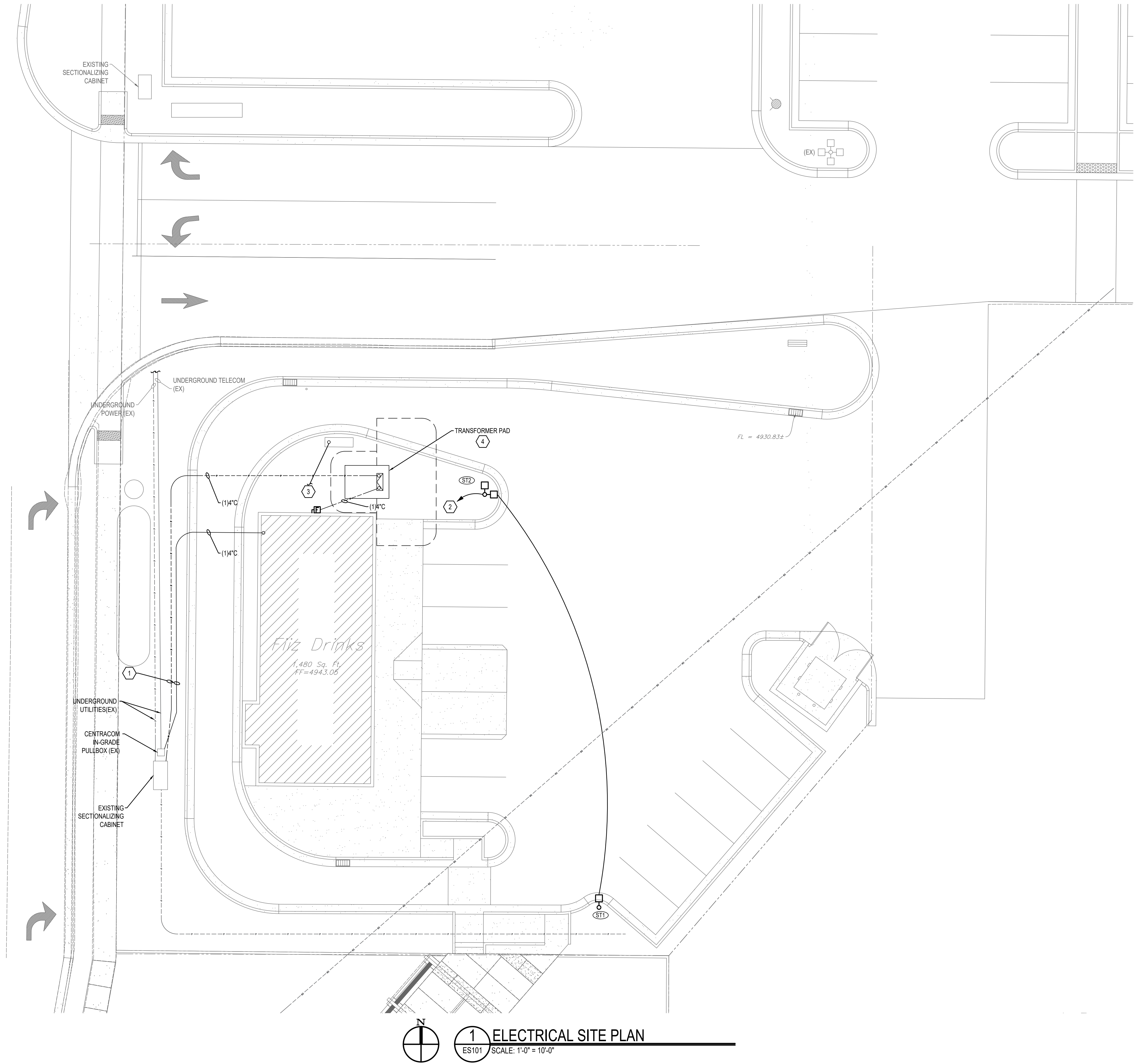
DATE:	04/19/2021
AGENCY PROJECT NO:	20315
DESIGN SEQUENCE PROJECT NO:	1708.01
CAD DWG FILE NO:	

DRAWN BY:	AMC
DESIGNED BY:	KMC
DWG TYPE:	
ARCHITECTURAL PHASE:	PERMIT SET

SHEET TITLE

## ELECTRICAL SCHEDULES

# EG601

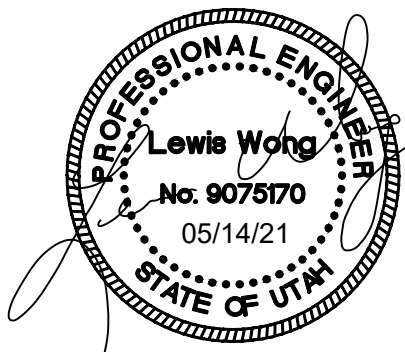


# KEYED NOTES

- FURNISH AND INSTALL THE FOLLOWING CONDUIT WITH PULLSTRING:
  - (1)1/4\"C FROM SECTIONALIZING CABINET TO NEW TRANSFORMER PAD AND FROM TRANSFORMER TO NEW MAIN SERVICE DISCONNECT.
  - (1)1/4\"C FROM CENTRACOM PULLBOX AND STUB UP 6\" A.F.F. IN FIRE RISER ROOM.
- EC SHALL MAKE ALL FINAL CONNECTIONS TO PARKING LOT POLES. FURNISH AND INSTALL (1)1\"C WITH 3#10 FROM FIRST POLE TO NEW PANELBOARD LOCATION. COIL A MINIMUM OF 6FT OF WIRE AT PANEL LOCATION.
- FURNISH AND INSTALL (2)1\"C WITH PULLSTRING FROM OUTDOOR MENU LOCATION STUBBED INTO BUILDING.
- EC TO COORDINATE FINAL LOCATION OF UTILITY TRANSFORMER WITH RMP AND FURNISH AND INSTALL CONCRETE PAD. TRANSFORMER FURNISHED AND INSTALLED BY RMP.

GENERAL NOTES

A. LOCATE AND IDENTIFY EXISTING UNDERGROUND UTILITY LINES ON SITE PRIOR TO WORK. HAND DIG OR POT HOLE AROUND EXISTING UTILITIES TO AVOID DISTRUPTION TO EXISTING SERVICES.



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FIZZ SHELL

SANTAQUIN, UTAH

MARK	DATE	DESCRIPTION
DATE:		06/19/2021
AGENCY PROJECT NO:		20315
DESIGN SEQUENCE PROJECT NO:		1708.01
CAD DWG FILE NO:		
DRAWN BY:		AMC
DESIGNED BY:		KMC
DWG TYPE:		
ARCHITECTURAL PHASE:		PERMIT SET
SHEET TITLE		

ELECTRICAL SITE  
PLAN

ES101

# EP101