

DALE  
PARTNERS



## Southwest Madison Fire Department

Madison, Mississippi

DPA PN: 17003

Construction Documents

03 Nov 2017



### Team

Owner  
Architect  
Civil  
Structural  
Mechanical  
Electrical

Madison County  
Dale Partners Architects, P.A.  
Pickering Firm  
Structural Design Group  
GSK Mechanical  
The Power Source



Graphic Symbols

**Building Elevation**  
  
**Building Section**  
  
**Wall Section**  
  
**Interior Elevation**  
  
**Detail**  
  
**Center Line**  
  
**Column Grid**  
  
**Door Mark**  
  
**North Arrow**  
  
**Spot Elevation**  
  
**Room Name and Number**

**Wall Type**  
  
**Window Type**  
  
**Sheet Keynote**  
  
**Concrete**  
  
**Brick**  
  
**CMU (Plan)**  
  
**Plywood**  
  
**Rigid Insulation**  
  
**Batt Insulation**  
  
**Finished Wood**  
  
**Metal Stud Partition**

Project Directory

**Project Information**  
 Name: 17003 Southwest Madison Fire Department  
 Address: Northwest of the intersection of Cavalier Lake Road & Coker Road

**Client**  
**Madison County Board of Supervisors**  
 146 W Center Street  
 Canton, MS 39046  
 (601) 855-5580  
 Contact: Shelton Vance, Interim County Administrator

**Architect**  
**Dale Partners Architects, P.A.**  
 One Jackson Place / Suite 250  
 188 East Capitol Street  
 Jackson, MS 39201-2100  
 (601) 252-5411  
 Contact: Russ Blount (russblount@dalepartners.com)

**Civil Engineer**  
**Pickering Firm, Inc.**  
 201 Airport Road, Suite 201  
 Flowood, MS 39232  
 (601) 956-3663  
 Contact: Jonathan Johnson (jjohnson@pickeringfirm.com)

**Structural Engineer**  
**Structural Design Group**  
 220 Great Circle Road, Suite 106  
 Nashville, TN 37228  
 (615) 255-5537  
 Contact: Tom Schaeffer (toms@sdg-structure.com)

**Fire Protection, Plumbing, & Mechanical Engineer**  
**GSK Mechanical, Inc.**  
 201 Park Court, Suite A  
 Ridgeland, MS 39157  
 (601) 750-7365  
 Contact: Kevin Starks (kstarks@gsmech.com)

**Electrical Engineer**  
**The Power Source, PLLC**  
 945 Madison Avenue  
 Madison, MS 39110  
 Contact: Chris Green (cgreen@thepowersource.us)

Project Keynote Legend

03 30 00	Cast-in-Place Concrete
03 30 00.D1	Reinforced Concrete Slab, Ref. Structural
03 30 00.D2	Reinforced Concrete Footing, Ref. Structural
03 31 00.A1	Vapor Barrier
04 20 00.A1	Veneer Brick Type Color 1
04 20 00.A2	Veneer Brick Type Color 2
04 20 00.A3	Brick Sill Rowlock Type Color 1
04 20 00.A4	Brick Sill Rowlock Type Color 2
04 20 00.A5	Veneer Brick Soldier Course Type Color 2
04 20 00.A8	Brick Soldier Course Type Color 1
04 20 00.A9	Brick Soldier Course
04 20 00.B1	Through Wall Flashing
04 20 00.K1	Weeps Vents
04 20 00.K2	Cavity Drainage Mat
04 20 00.L1	Rigid Insulation
04 20 00.N2	Non-Shrink Grout
04 20 00.P2	Adjustable Two-Piece Masonry Veneer Anchor
05 12 00	Structural Steel Framing
05 12 00.A1	Steel Structure, See Struct. Dwg.
05 40 00.A1	Runner Channel/Track, Ref. Structural
05 40 00.B1	Metal Stud
05 40 00.B9	6" Metal Stud
05 40 00.B11	8" Metal Stud
05 40 00.G1	C Joist, Ref Structural
05 50 00.D1	Steel Angle
05 50 00.F2	HSS 4"x4"x 1/4", Painted
05 50 00.F5	3"x3"x1/4"x6" Long Steel Angle Tread Support, Painted
05 50 00.F8	C8 x 11.5 Steel Channel, Painted
05 50 00.G1	4"x3"x3/8" LVL Steel Angle, Painted
05 50 00.G2	Metal Pan With Concrete Fill Stairs
05 50 00.G1	1 1/2" Steel B Deck
05 50 00.H1	Access Panel
05 50 00.J1	Cast Iron Downspout Boot with Cleanout
05 50 00.J2	Lag Bolt
05 50 00.J3	Neoprene Rubber Spacer
05 50 00.N1	6" Diameter Steel Pipe Bollard, Concrete Filled
05 52 13	Pipe and Tube Railings
06 10 00.A2	Treated Wood Blocking
06 10 00.D1	3/4" Wood Floor Deck, Ref. Structural
06 10 00.E1	1/2" Plywood Shear Panel, Ref. Structural
06 10 53.A1	Treated Wood Blocking
06 16 00.A5	1/2" Glasmat Sheathing
06 20 00.A6	1x4 Wood Trim
06 20 00.A10	1x10 Wood Trim
06 20 13.A1	1/2" APA CDX Plywood with FRP Facing
06 20 13.A2	1/2" APA Exterior A-C Plywood Painted
06 40 00.A1	Plastic Laminate Clad Counter

Project Keynote Legend

06 40 00.A2	Plastic Laminate Clad Base Cabinet
06 40 00.A3	Plastic Laminate Clad Wall Cabinet
06 40 00.A5	Plastic Laminate Clad Adjustable Shelving
06 40 00.A7	Plastic Laminate Clad Cabinet Door
06 40 00.A8	Plastic Laminate Clad Cabinet Drawer
06 40 00.B1	Cabinet Hardware
06 40 00.C1	Cabinet Pull
06 40 00.D1	Plastic Laminate Clad Fixed Drawer Panel
06 40 00.E1	Plastic Laminate Clad 1/4" Back Board
06 40 23.E1	Wood Counter Top
06 40 23.E3	Wood Counter Top and Backsplash
06 40 23.F1	3/4" Plywood Sheathing
06 40 23.G2	Wood Cove Molding
06 40 23.S1	Wood Window Stool
07 21 00.B2	R-13 Fiberglass Batt Insulation
07 21 00.B3	R-19 Fiberglass Batt Insulation
07 21 00.C3	Acoustic Batt Insulation
07 27 27.A5	Air Barrier
07 92 00.A1	Sealant
07 92 00.A2	Backer Rod and Sealant
08 00 00	Division 08 - Doors and Windows
08 11 13	Hollow Metal Doors and Frames
08 11 13.A1	Hollow Metal Door Frame
08 11 13.A4	Hollow Metal Thermal Break Door Frame
08 11 13.B1	Hollow Metal Door
08 11 13.D1	Jamb Anchor
08 14 16	Flush Wood Doors
08 14 16.A1	Solid Core Wood Doors
08 36 13.A3	Aluminum Sectional Door
08 36 13.A4	Steel Sectional Door
08 36 13.A5	Sectional Door Powered Operator
08 54 13.A1	Fiberglass Single-hung Window
08 71 11.A2	Metal Threshold
08 71 11.A4	Door Sweep
09 22 16	Non-Structural Metal Framing
09 22 16.A1	Metal Stud Framing
09 22 16.A5	3-5/8" Metal Stud Framing
09 22 16.A7	6" Metal Stud Framing
09 22 16.C7	6" Metal Runner
09 22 16.E3	1-1/2" Hat Channel
09 29 00.A	5/8" Type X Gypsum Wallboard
09 29 00.A7	5/8" Type X Gypsum Board Suspended Ceiling
09 65 13.A	Resilient Base
09 65 19.D1	Finish Flooring, Refer to Finish Schedule
09 77 20.A1	Fiberglass Reinforced Plastic (FRP) Wall Panel
09 77 20.A2	PVC Edge Trim Molding
10 14 00.A1	Dimensional Metal Signage 10 Inch High Letters
10 14 00.C1	Bronze Plaque

Project Keynote Legend

10 20 00.A1	Fire Extinguisher FE1
10 20 00.A3	Fire Extinguisher FE2
10 75 00	Flagpoles
11 31 00.A	Washing Machine
11 31 00.B	Electric Clothes Dryer
12 21 13.A1	Horizontal Louver Blind
12 36 23.13	Plastic-Laminate-Clad Countertops
13 25 00.A	Panelized Above Ground Storm Shelter
13 34 19.A1	Metal Wall Panel
13 34 19.A2	Standing Seam Metal Roof System
13 34 19.A4	Metal Soffit Panel
13 34 19.A5	Dekitte Flashing for Vent Thru Roof
13 34 19.A6	Painted Metal SSR Ridge Closure
13 34 19.A7	Painted Metal SSR Rib Closure
13 34 19.B1	Girt
13 34 19.B2	Purlin
13 34 19.B3	Acoustic Batt Insulation
13 34 19.B6	Cold-formed Steel Channel
13 34 19.B8	Endwall Column
13 34 19.C2	Faced R19 Insulation
13 34 19.D2	Gutter
13 34 19.D3	Downspout
13 34 19.D4	Rake Trim
13 34 19.D6	Soffit Panel Trim
13 34 19.D8	Wall Panel Trim
13 34 19.D9	Custom Eave Trim (Cover Eave Strut and Soffit)
13 34 19.E1	Rigid Frame
13 34 19.E2	Portal Frame Bracing
13 34 19.F1	Ridge Cap
13 34 19.G1	PEMB Masonry Support Wind Beam
13 34 19.H1	R5 Thermal Spacer
13 34 19.L1	PEMB Personnel Door (or Window) Canopy
13 34 19.M1	PEMB Flush (Piggy-Back) Canopy Rafter
13 34 19.N1	PEMB HSS Canopy Support Column, Ref. Structural
22 40 30	Plumbing Specialties, Trench Drain
22 40 00.C1	Sink
22 40 00.C2	Faucet
22 40 00.C3	Mop Sink
22 40 00.E1	Utility Tub
23 00 00.A	HVAC Equipment, Ref. Mech.
26 32 14	Generator, Ref. Electrical
26 51 00.A	Interior Lighting, Ref. Electrical
26 51 00.B	Exterior Lighting, Ref. Electrical
26 51 00.C	Exit Lighting, Ref. Electrical
31 23 18.A1	Granular Sub-base, Ref. Structural
32 13 13	Concrete Paving
32 13 13.B3	Concrete Walk with Broom Finish
32 31 13.A1	Chain Link Fencing
32 31 13.A2	Chain Link Gate

Drawing Index

G-000	Cover Sheet
G-001	Index & General Project Information
-	HD Lang & Assoc.s 9/4/2017 Topographic and Utilities Survey for Information Only
C-xxx	(See Civil Drawings For Index)
S-xxx	(See Structural Drawings For Index)
AS101	Architectural Site Plan
A-101	Floor Plan Level 1
A-102	Mezzanine Floor Plan
A-103	Roof Plan
A-141	Reflected Ceiling Plan Level 1
A-142	Reflected Ceiling Plan Mezzanine
A-201	Building Elevations
A-301	Building Sections
A-321	Wall Sections
A-401	Enlarged Plans & Int. Elev.s
A-402	Interior Elevations
A-551	Door Details
A-552	Window Details
A-581	Millwork Sections and Miscellaneous Details
A-621	Schedules, Door, Frame & Partition Types
A-701	Stair Plan, Section & Details
FPxxx	(See Fire Protection Drawings For Index)
P-xxx	(See Plumbing Drawings For Index)
M-xxx	(See Mechanical Drawings For Index)
E-xxx	(See Electrical Drawings For Index)

General Project Notes

- Do not scale drawings. If dimensions are in question, the contractor shall be responsible for obtaining clarification from the architect before continuing with the construction.
- Contractors shall verify, on the site, all dimensions and equipment locations, and notify the architect promptly in writing of any discrepancies.
- Contractors shall be responsible to determine the on site conditions and perform all necessary work to complete the project.
- All casework and millwork dimensions shall be field verified before unit fabrication or installation.
- Dimensions, notes, finishes, and fixtures shown on typical floor plans shall apply to similar, symmetrical, or opposite hand plans, sections, or details.
- Typical, or typ., shall mean that condition is representative for similar conditions throughout, U.N.O. Details are usually keyed and noted "Typical," "Typ.," only one time when they first occur
- Partitions are dimensioned from finish face U.N.O.

Building Code Information

Building Code Requirements

**Code Summary**

**Building Description**  
 The building is a one-story fire department comprised of an apparatus bay, offices, a day room, kitchen bunk rooms, toilet facilities storage and a mezzanine serving the apparatus bay. The building construction consists of a concrete foundation that supports metal building steel rigid frame primary supporting members and steel girts and purlins as secondary framing members. The roofing system is a steep slope metal panel roof system. The exterior of the building consists of brick veneer over sheathing on light gauge metal stud framing with aluminum windows. There are three exits.

**Conceptual Code Compliance Approach:**  
 Utilizing the provisions of 2006 IBC Section 508.3.2 Nonseparated occupancies the Apparatus Bay is included a U Utility Occupancy having an area of less than 3,000 SF that is adjacent to the R-3 Residential floor areas that includes all rooms and spaces except the two offices that are considered an Accessory B Business occupancy with the offices having a combined floor area of less than 10 percent of the total building area. The R Residential Occupancy requires the building to have an Automatic Fire-Sprinkler System throughout.

**Applicable codes and standards:**  
 Building construction shall comply with the following Codes and Standards.  
 2006 IBC - International Building Code  
 2006 IFC - International Fire Code  
 2006 IMC - International Mechanical Code  
 2006 IPC - International Plumbing Code  
 2006 IFGC - International Fuel Gas Code  
 2006 IEC - International Electrical Code  
 2010 ADA - Americans with Disabilities Act

**IBC Chapter 3 - Use and occupancy classification**  
 B Business: Offices  
 R-3 Residential (Less than 16 Occupants): Bunk Rooms, Day Room, Kitchen, Toilets, Halls  
 U Utility: Apparatus Bay less than 3,000 SF in floor area

**IBC Chapter 4 - Detailed requirements based on use and occupancy**  
 406 Motor-Vehicle-Related Occupancies  
 406.1.2 An area increase to 3,000 SF for the portion of the building designated as U Occupancy is allowed provided in a mixed occupancy the exterior wall and opening protection are as required for the major occupancy (R-3 for this building). The proposed Apparatus Bay area is 2,959 SF. The U Occupancy floor area does not include the floor area of the mezzanine in accordance with 2006 IBC Section 505.2.  
 406.1.4 Separation. 1/2" Gypsum Board is required on the Garage side of the partition between the R-3 and U Occupancy areas.

**IBC Chapter 5 - General building heights and areas**  
 Aggregate accessory occupancies shall not occupy more than 10 percent of the area of the story in which they are located. (2006 IBC 508.3.1)  
 The two offices have a combined area of 230 SF that is less than 10 percent of the story floor area.

Nonseparated occupancies shall be individually classified in accordance with section 302.1. The requirements of this code shall apply to each portion of the building based on occupancy classification of that space. In addition, the most restrictive provisions of Section 403 (High-Rise Buildings not applicable to this building) and Chapter 9 shall apply to the total nonseparated occupancy area. (2006 IBC 508.3.2.1)

In buildings with mixed occupancies, the allowable area per story shall be based on the most restrictive provisions for each occupancy when the mixed occupancies are treated according to section 508.3.2. (2006 IBC 506.4.1). The most restrictive allowable area provision is the 9,000 SF allowed for the B Occupancy in Type VB Construction. However, 2006 IBC

The proposed Building Height per 2006 IBC Table 504.3 is limited to 40 feet for Type VB Construction for Occupancy Types B, R-3, S-2 and U.

Maximum number of stories per 2006 IBC Table 503 is limited to 1 story for Type VB Construction for Occupancy Type U.

Total Proposed Building Gross Area per 2006 IBC gross area definition: 4,400 SF

Maximum allowable area A per 2006 IBC Table 503 for Type VB Construction  
 B Business: 9,000 SF  
 R-3 Residential: UL Unlimited  
 U Utility: 5,500 SF (The U Occupancy floor area is limited to 1,000 SF with increase to 3,000 SF per Section 406.1.2)  
 The B Occupancy is the limiting allowable area per the provision of Section 406.1.2.

IBC Chapter 6 Type of Construction

Building separated by greater than 30'-0" distance is allowed an exterior wall with a fire-resistance rating of 0 hours.

Building Element	Type	VB Fire-Resistance Rating (HRS)
Structural Frame		0
Bearing Walls:		
Exterior	0	
Interior	0	
Nonbearing Walls:	Table 602	
Exterior	0	
Interior	0	
Floor Construction	0	
Roof Construction	0	

IBC Chapter 7 - Fire and smoke protection features, fire-resistance-rating requirements

a. Opening Fire Protection Assemblies Fire door/shutter fire protection ratings (2006 IBC-Table 715.4)

Type of assembly	Wall assembly rating	Min. fire door/fire shutter rating
Fire partitions	1 hour	3/4 hour
(except Corridor walls)		
Corridor walls	1 hour	1/3 hour
Corridor walls	0.5 hour	1/3 hour
Smoke barriers	1hour	1/3 hour

h. Fireblocking and draftstopping shall be required in accordance with 2006 IBC section 717 Concealed Spaces.

IBC Chapter 8 - Interior Finishes

Wall and Ceiling Finishes – Interior wall and ceiling finishes shall be classified in accordance with ASTM E 84. Such interior finish materials shall be grouped in the following classes in accordance with their flame spread and smoke-developed indexes. (2006 IBC 803.5)

- Class A: Flame spread 0-25; smoke-developed 0-450
  - Class B: Flame spread 26-75; smoke-developed 0-450
  - Class C: Flame spread 76-200; smoke developed 0-450
- b. Interior Wall and Ceiling Finish Requirements by Occupancy – Sprinkled (IBC-TABLE 803.5)

Group	Exit Enclosure	Corridors Rooms and Enclosed Spaces
B	C	C
R-3	C	C
U	No Restrictions	

IBC Chapter 9 - Fire Protection Systems

a. 2006 IBC Section 903.2.7 requires an automatic sprinkler system throughout all buildings with a Group R Occupancy. An NFPA 13 Automatic Sprinkler System is to be provided.

- b. Portable Fire Extinguishers shall be installed in the following locations (IFC-906.1):
- In areas where flammable or combustible liquids are stored, used or dispensed.
  - Special-hazard areas where required by the fire code official.

IBC Chapter 10 - Means of egress

The means of egress for this project has been developed in accordance with the requirements set forth in the applicable building codes.

Occupant loads	Occupancy Type	Area (SF)	Factor	Total occupants
B Business		233 SF	1:100	3 occupants
R-3 Residential		1,205 SF	1:200	7 occupants
U Utility		2,959 SF	1:200	15 occupants
Mezzanine		606 SF	1:200	4 occupants
Total		4,400 SF		29 occupants

Egress width (inches per Occupant):  
 With automatic sprinkler system  
 Stairways: 0.2" per Occupant (2006 IBC Table 1005.1)  
 Other egress components: 0.15" per Occupant (2006 IBC Table 1005.1)

Common path of egress travel is 75 feet in Assembly occupancy and 100 feet per Exception 2 for a tenant space in a B, S and U Occupancy with an Occupant Load of not more than 30 (2006 IBC Section 1014.3)

Corridor Fire-Resistance Rating 2006 IBC Table 1017.1 (with Automatic Sprinkler System throughout building)

Occupancy	Occupant Load Served by Corridor	Fire Resistance Rating (hours)
B, U	Greater than 30	0
R	Greater than 10	0.5

The Occupant Load for the R Occupancy is 7 which is not greater than 10 therefore no fire partition is required by Table 1017.1 for the corridor serving the R Occupancy

IBC Chapter 11 - Accessibility

The number of accessible parking spaces shall be as required by table 1106.1.

Proposed Parking spaces	Required accessible spaces
2	2

IBC Chapter 29 - Minimum Plumbing Facilities

Minimum Number of Required Plumbing Fixtures:

Occupancy	Male WC's	Female WC's	Male & Female Lav's	Drinking Fountains
B	1 per 50*1	1 per 50*1	per 80*	1 per 100
R-3	1/Dwell Unit	1/Dwell Unit	1/Dwell Unit	1/Dwell Unit
S-2	1 per 100*1	1 per 100*1	per 100	1 per 1000

Occupancy	Plumbing Fixtures Counts	Occupants	Male WC's	Female WC's	Male Lav's	Female Lav's
Business (B)	3	0.12	0.12	0.075	0.07	
Residential (R-3)	7	1	1	1	1	1
Apparatus Bay (U)	15	0.15	0.15	0.8	0.8	
Total Fixtures Required	1	1	1	1	1	1
Total Fixtures Provided	1	1	1	1	1	1

An additional Unisex Public Toilet is Provided that includes 1 water closet and 1 lavatory

Other required plumbing fixtures for Occupancy R-3 (combined with requirements for Occupancy Types B and U):  
 1 Drinking Fountain  
 1 Service Sink  
 1 Kitchen Sink  
 1 Clothes Washer

Energy Code Requirements

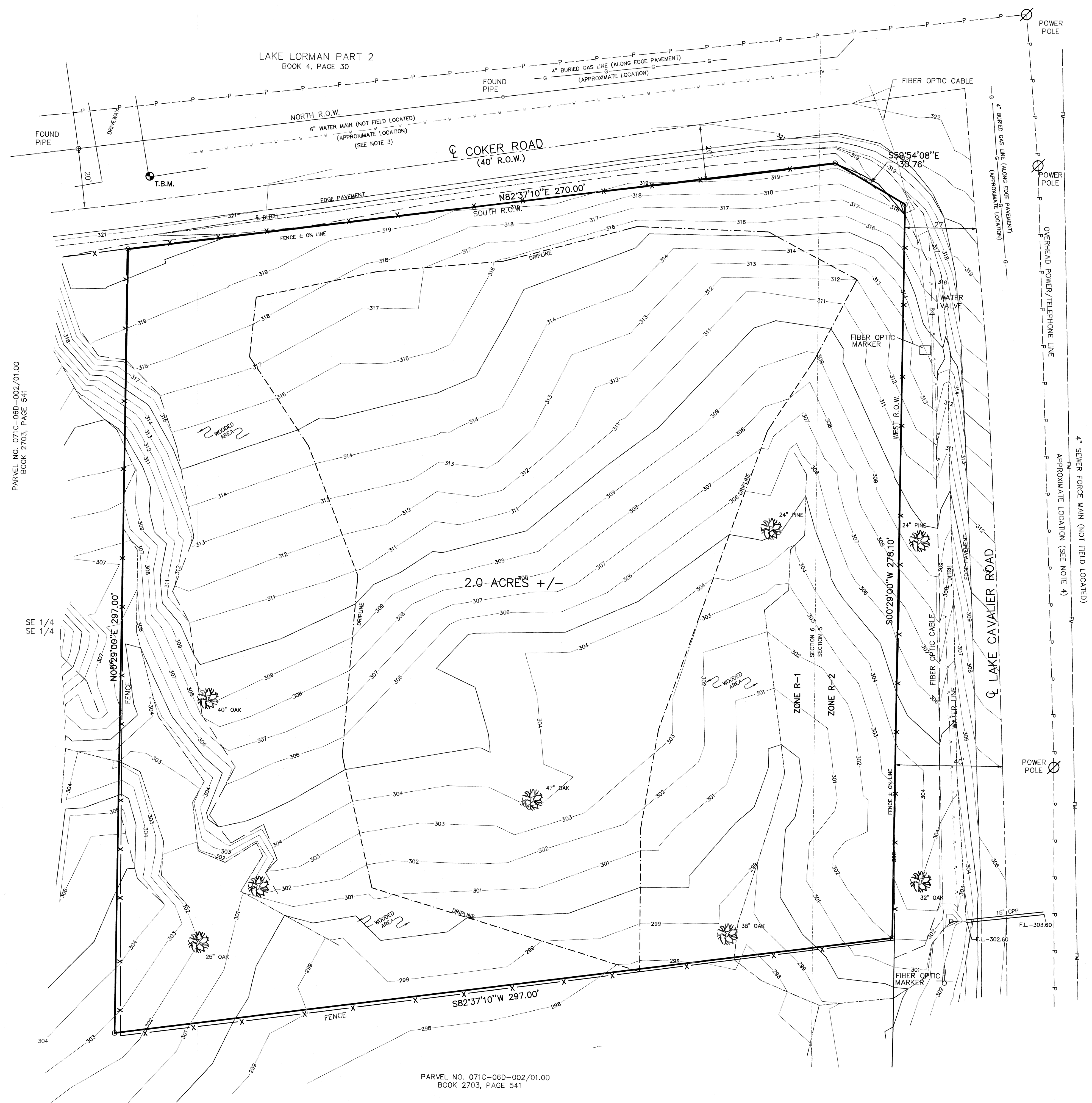
All work in this project shall meet the 2006 International Energy Conservation Code (IECC) requirements for Commercial Energy Efficiency  
 The project is located in Climate Zone 3A

Building Envelope Requirements:

2006 IECC able 502.2(1)	Roof
R-19	(Metal Building With R-5 Thermal Blocks)
R-30	Attic & Other



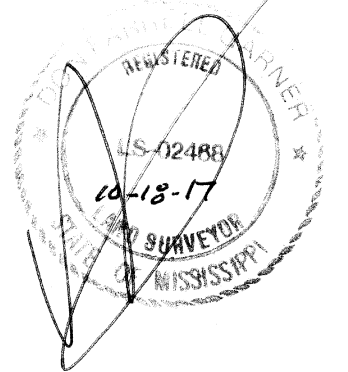
PARCEL NO. 071C-06D-002/01.00  
BOOK 2703, PAGE 541



SW 1/4  
SW 1/4

SW 1/4  
SW 1/4

PARCEL NO. 071C-06D-002/01.00  
BOOK 2703, PAGE 541



- NOTES:
1. GAS PROVIDED BY ATMOS ENTERGY JACKSON.
  2. NO SEWER PROVIDED BY MADISON COUNTY.
  3. 6" WATER MAIN NORTH HINDS WATER ASSOCIATION AS INDICATED ON DRAWING PROVIDED BY PICKERING ENGINEERING, APPROXIMATE LOCATION.
  4. 4" SEWER FORCE MAIN LAKE LORMAN UTILITY DISTRICT AS INDICATED ON DRAWING PROVIDED BY PICKERING ENGINEERING, APPROXIMATE LOCATION.

\*811" TICKET NO: 1706208020141  
06/28/2017  
UTILITY COMPANIES NOTIFIED  
TELEPAK O&A C SPIRE FIBER  
LAKE LORMAN UTILITY DISTRICT  
COMCAST CABLE COMMUNICATIONS INC.  
ATMOS ENTERGY JACKSON  
A T & T DISTRIBUTION  
ENTERGY MS  
BEAR CREEK WATER ASSOC.

⊙ T.B.M. 603 NAIL IN EDGE DRIVEWAY ON NORTH SIDE OF  
COKER ROAD NEAR NW CORNER SITE  
ELEVATION 321.50 MSL (NAVD 1988)

DRAWING NO.

**H D LANG AND ASSOCIATES, INC.**

POST OFFICE BOX 16085

JACKSON, MISSISSIPPI 39236

601-362-4886

CLIENT

TOPOGRAPHIC SURVEY  
FOR  
**MADISON COUNTY BOARD  
OF SUPERVISORS**

LOCATION

2.0± ACRES SITUATED IN THE  
SW 1/4 OF THE SW 1/4 OF SECTION 6 AND IN THE  
SE 1/4 OF THE SE 1/4 OF SECTION 6,  
TOWNSHIP 7 NORTH, RANGE 1 EAST,  
MADISON COUNTY, MISSISSIPPI

DATE

09-04-17  
10-18-17

REVISION

UTILITY NOTES  
UTILITY INFORMATION

BY

DFG  
DFG

DRAWN BY: D.L.M.

DATE: 7-12-17

SCALE: 1" = 20'

BOOK: PAGE:

PROJECT NO.: 16-010

SHEET









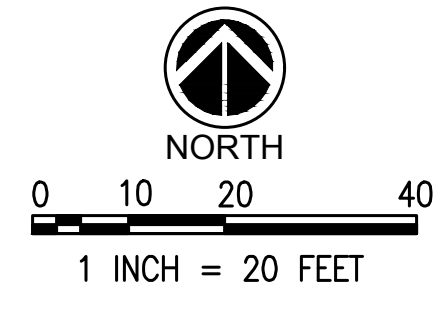
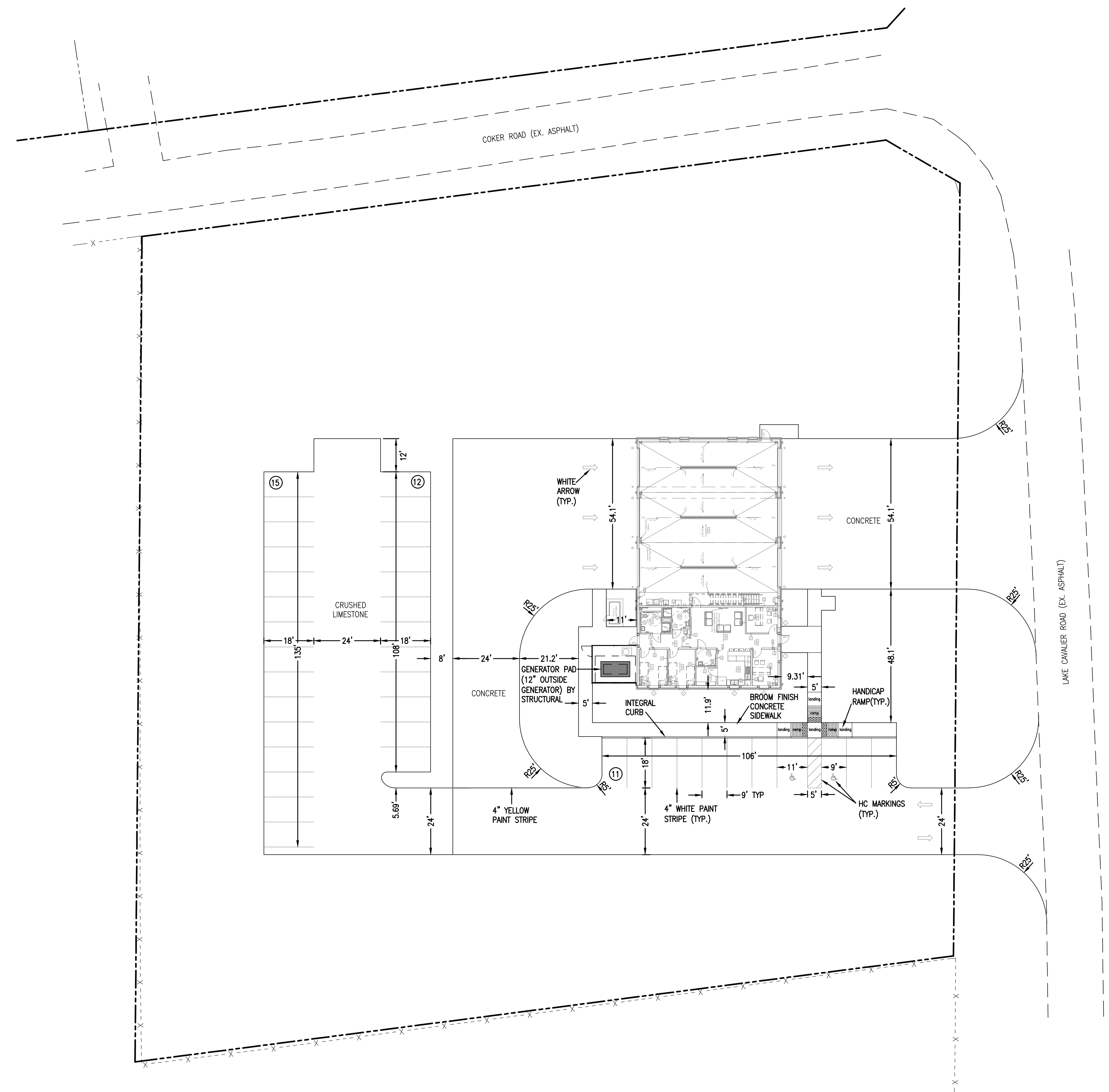
Southwest Madison Fire Department  
Madison, Mississippi

Construction Documents

Project No	17003
Date	3 Nov 2017
Drawn	JB
Checked	JJ
Revisions	Rev Date

C3.0

Site Plan

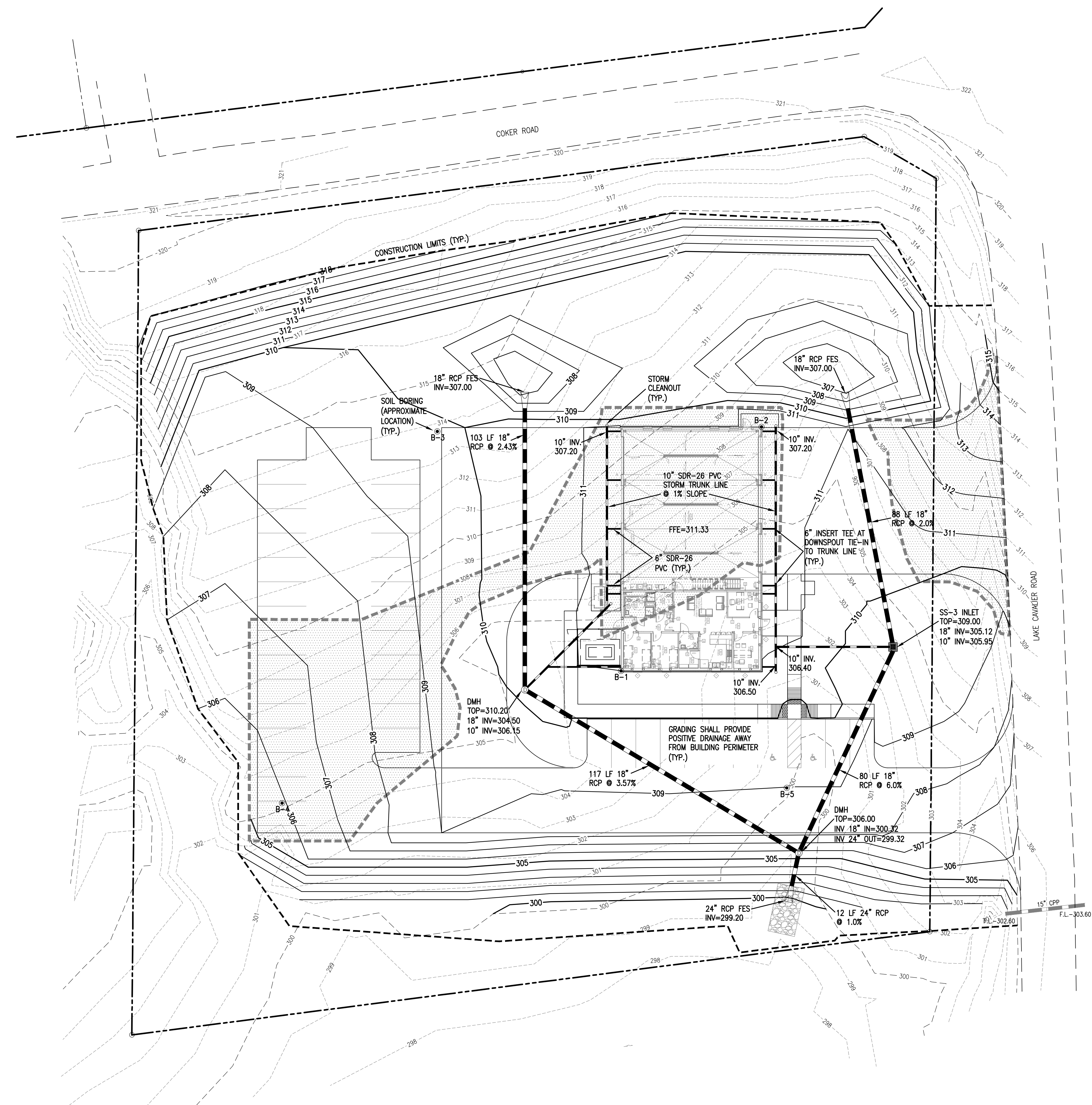


**Pickering**  
Pickering Firm, Inc.  
Facility Design • Civil Engineering • Surveying •  
Transportation • Natural / Water Resources  
2001 Airport Road, Suite 201  
Flowood, MS 39232  
601.956.3663





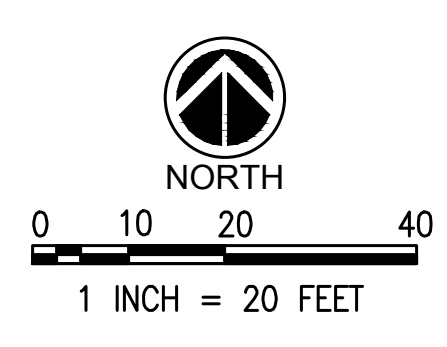
Southwest Madison Fire Department  
Madison, Mississippi



NOTE:  
THE CONTRACTOR SHALL PROVIDE UNIT COSTS AS SEPARATE LINE ITEMS IN HIS/HER BID FOR THE FOLLOWING:

1. UNDERCUTTING (INCLUDES DISPOSAL)
2. BORROW EXCAVATION (IMPORT SELECT FILL)
3. EXCESS EXCAVATION (DISPOSAL OF EXCAVATION THAT CANNOT BE SATISFACTORILY USED ON SITE)

LIMITS OF UNDERCUTTING & SELECT BORROW MATERIAL TO BE INCLUDED IN CONTRACT= 14,211 SF, 1,350 CY (LIMITS AND QUANTITY BASED ON REQUIRED 3\"/>



Pickering Firm, Inc.  
Facility Design • Civil Engineering • Surveying •  
Transportation • Natural / Water Resources  
2001 Airport Road, Suite 201  
Flowood, MS 39232  
601.956.3663

Construction Documents

Project No	17003
Date	3 Nov 2017
Drawn	JB
Checked	JJ
Revisions	Rev Date

C4.0

Grading and Drainage Plan



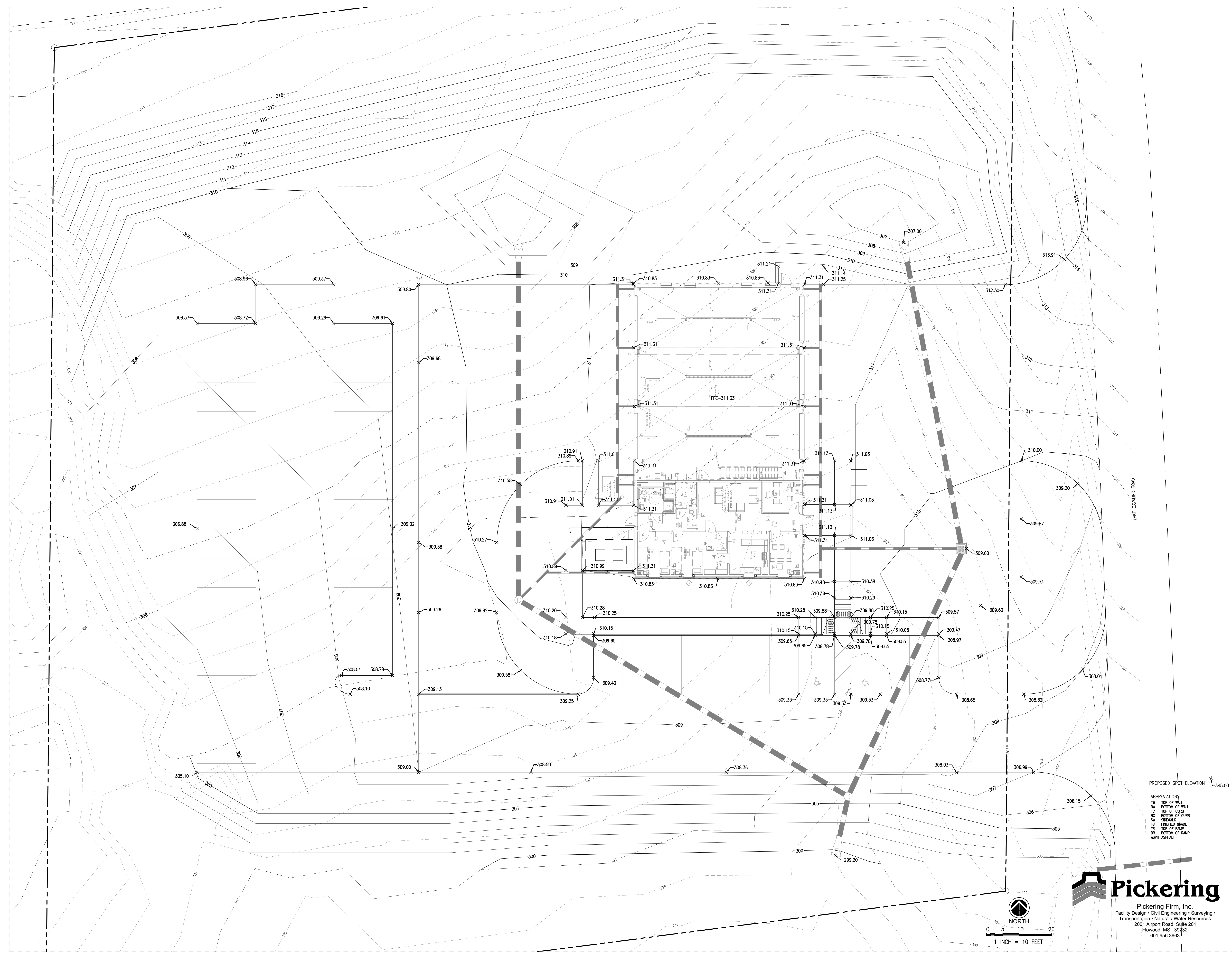


Southwest Madison Fire Department  
Madison, Mississippi

Construction Documents

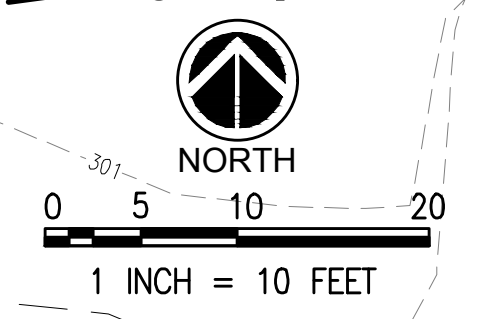
Project No 17003  
Date 3 Nov 2017  
Drawn JJB  
Checked JJ  
Revisions Rev Date

C4.1  
Spot Elevation Plan



PROPOSED SPOT ELEVATION 345.00

ABBREVIATIONS  
 TW TOP OF WALL  
 BW BOTTOM OF WALL  
 TC TOP OF CURB  
 BC BOTTOM OF CURB  
 SW SIDEWALK  
 FG FINISHED GRADE  
 TR TOP OF RAMP  
 BR BOTTOM OF RAMP  
 ASPH ASPHALT



**Pickering**  
 Pickering Firm, Inc.  
 Facility Design • Civil Engineering • Surveying •  
 Transportation • Natural / Water Resources  
 2001 Airport Road, Suite 201  
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 601.956.3663



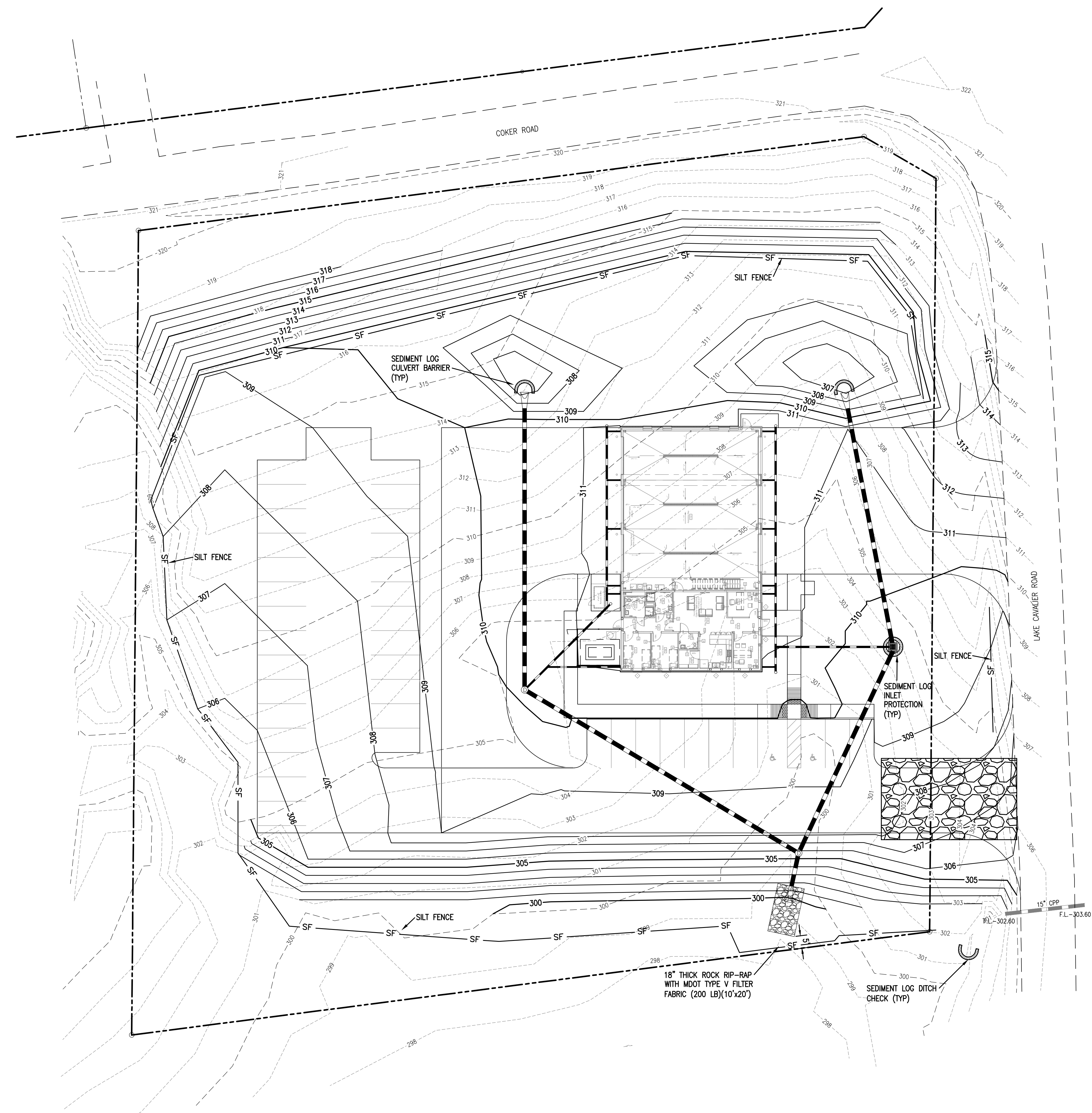


Southwest Madison Fire Department  
Madison, Mississippi

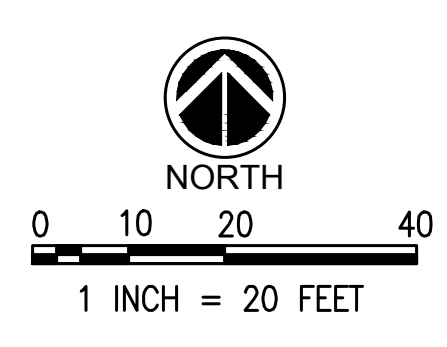
Construction Documents

Project No	17003
Date	3 Nov 2017
Drawn	JB
Checked	JJ
Revisions	Rev Date

C5.0  
Erosion Control Plan



- LEGEND
- SEDIMENT LOG INLET PROTECTION
  - SEDIMENT LOG DITCH CHECK
  - SEDIMENT LOG CULVERT BARRIER
  - SILT FENCE
  - TEMPORARY CONSTRUCTION ROAD



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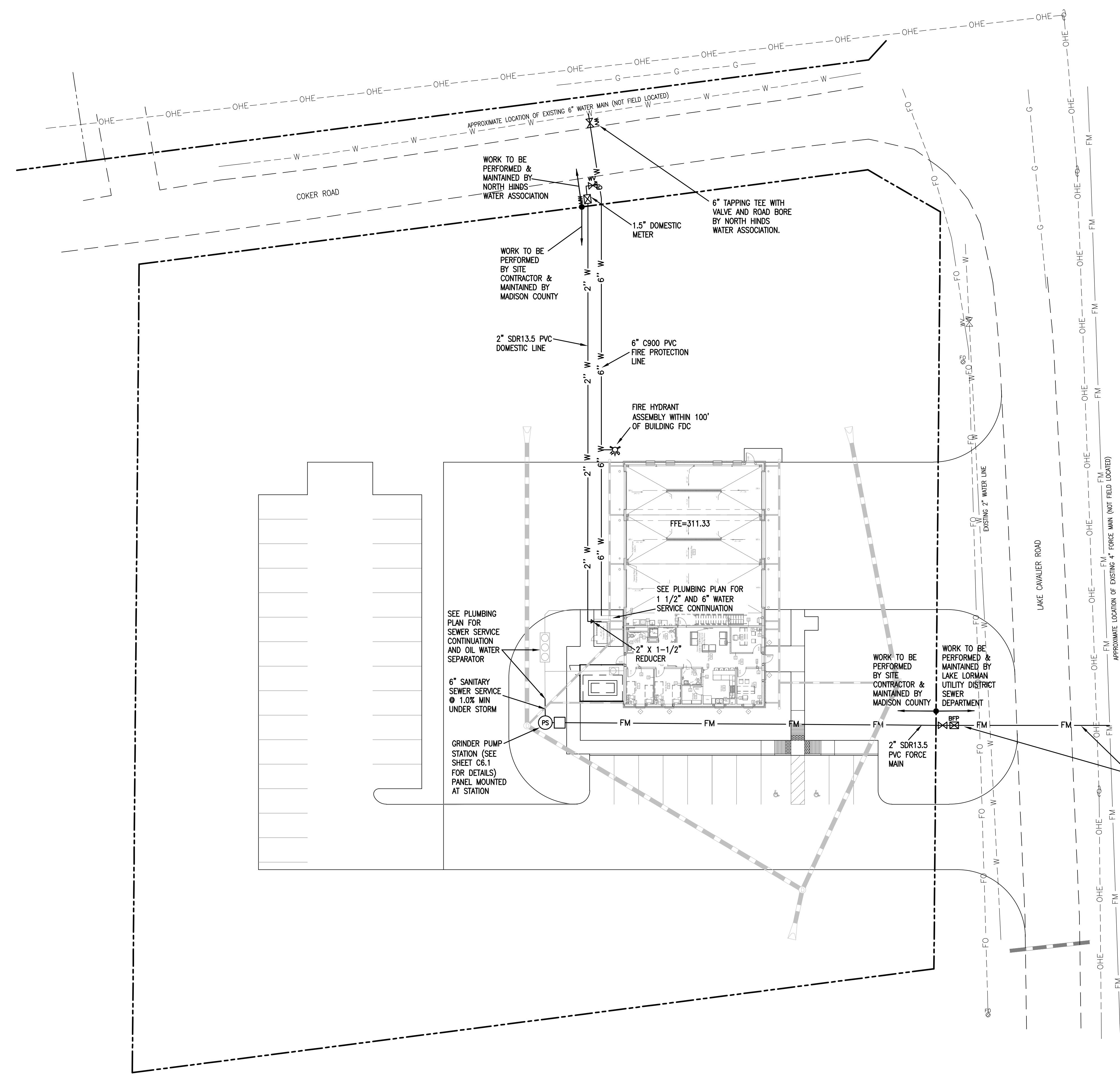




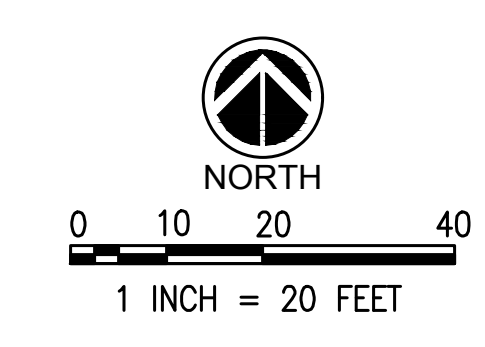
Southwest Madison Fire Department  
Madison, Mississippi

Construction Documents

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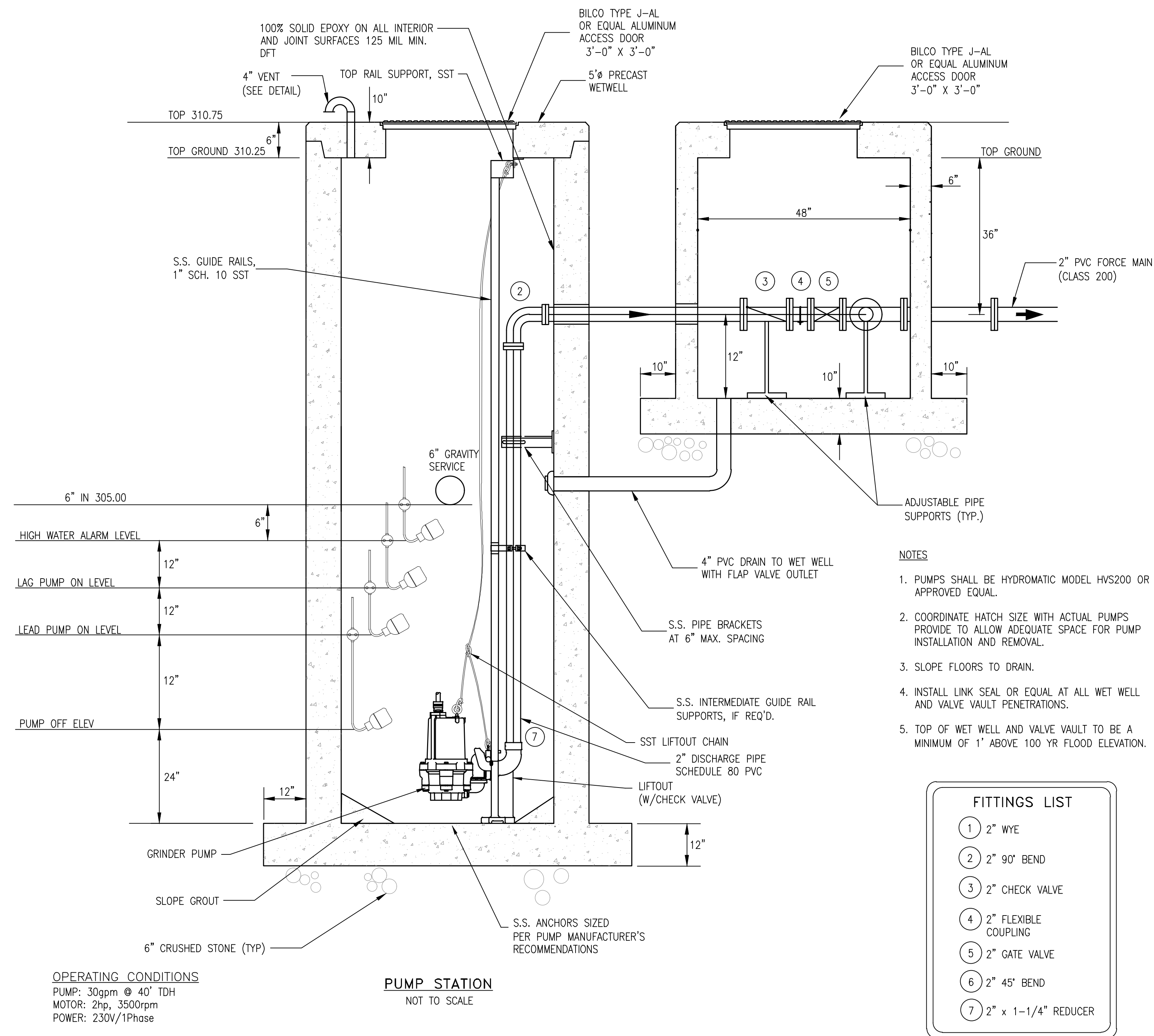
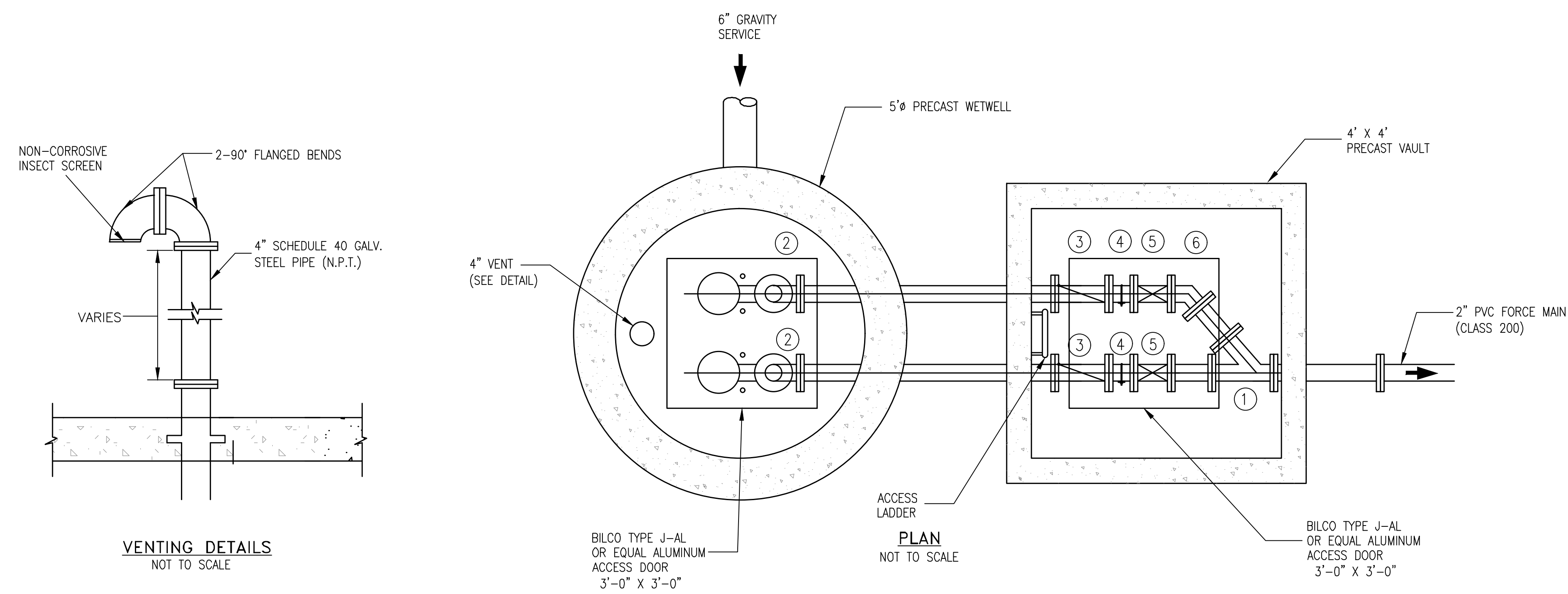
CONNECTION TO EXISTING FORCE MAIN, ROAD BORE, BACKFLOW PREVENTOR, AND VALVE BY LAKE LORMAN UTILITY DISTRICT SEWER DEPARTMENT.



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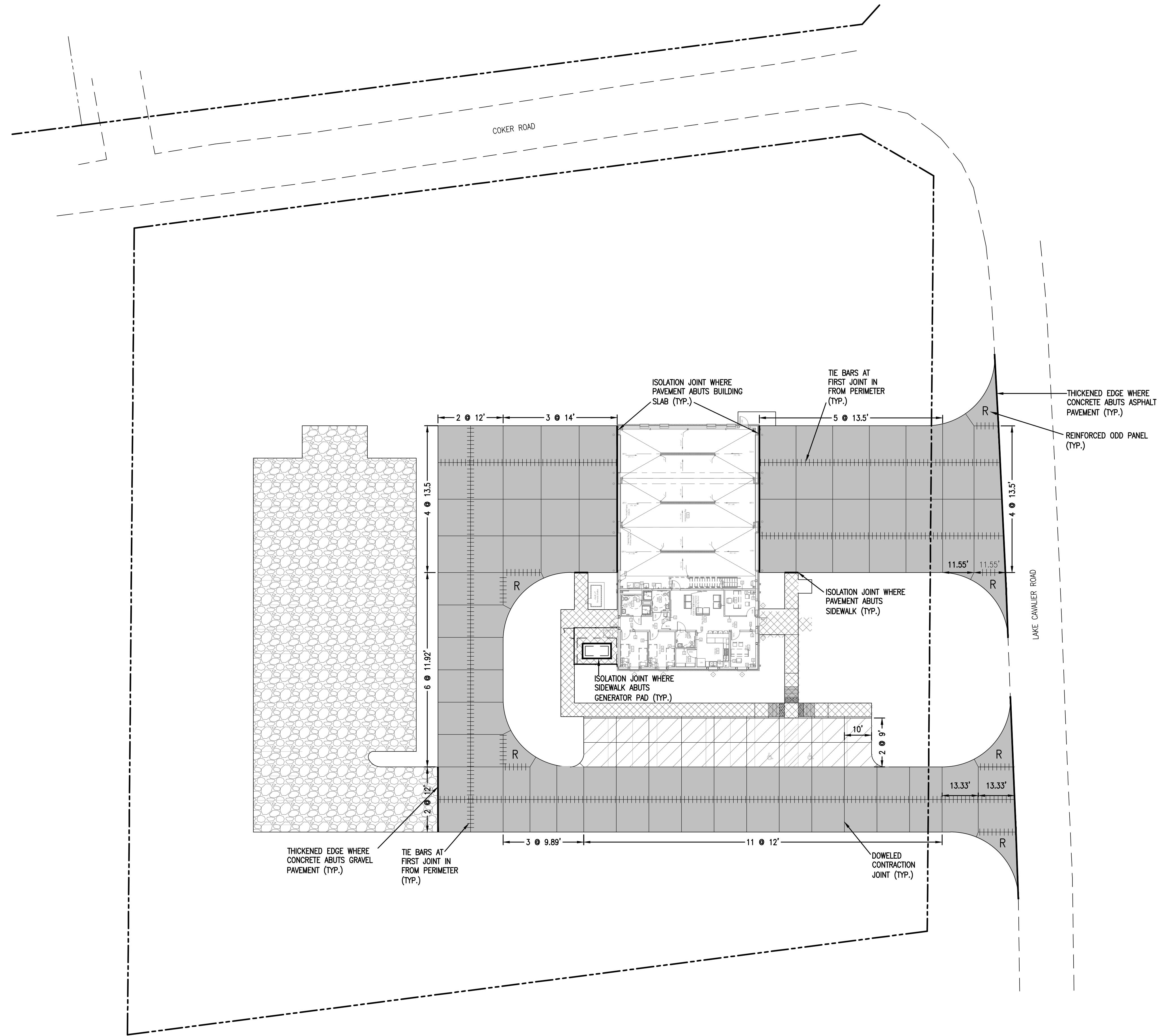




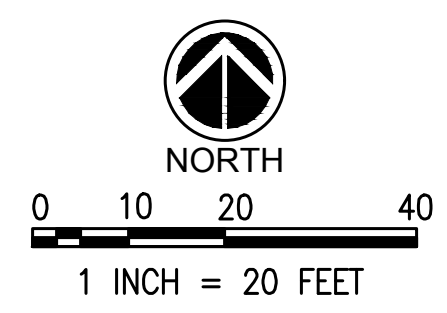
Southwest Madison Fire Department  
Madison, Mississippi

Construction Documents

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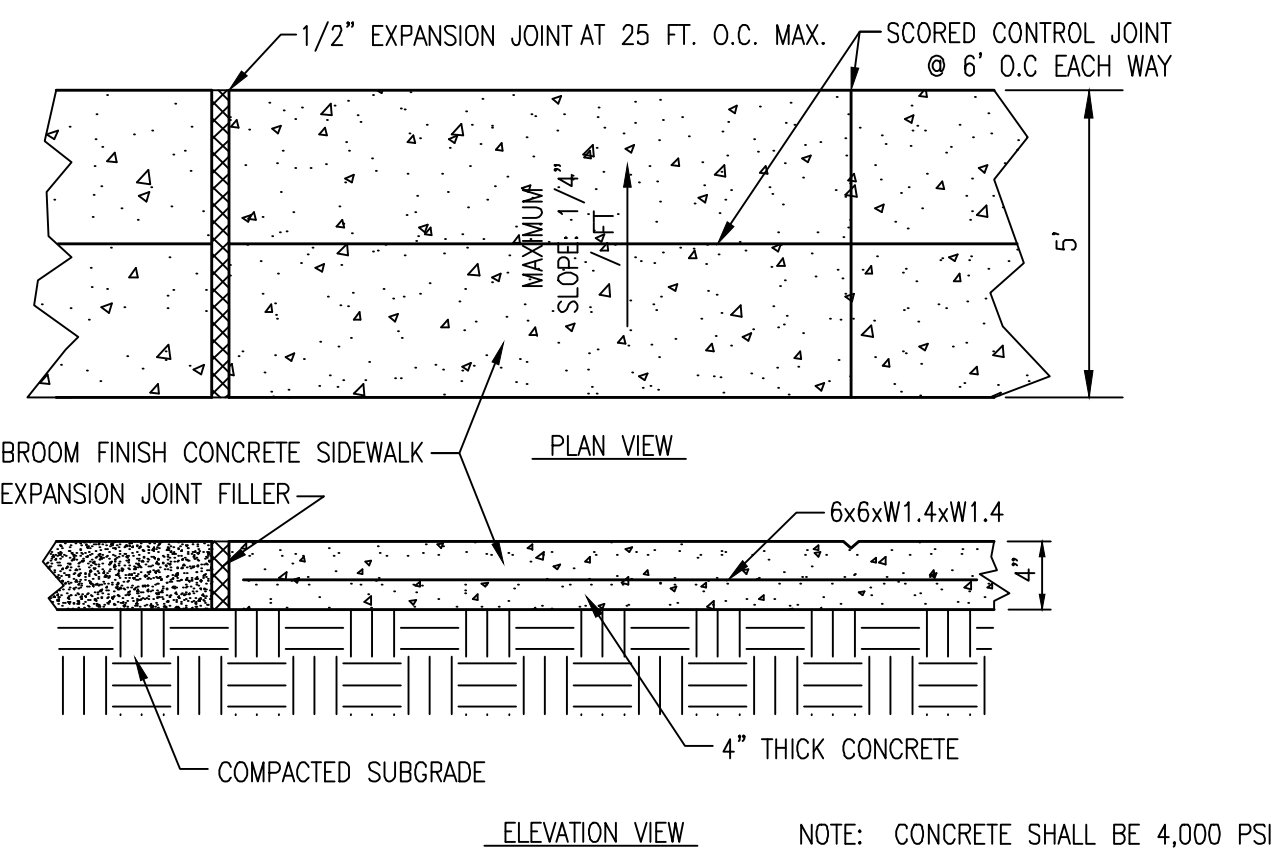


- LIGHT DUTY CONCRETE  
5" PORTLAND CEMENT CONCRETE (4,000 PSI MIN)  
(JOINT SPACING 10' MAX)  
8" LIME TREATED SUBGRADE
- HEAVY DUTY CONCRETE  
8" PORTLAND CEMENT CONCRETE (4,000 PSI MIN)  
(JOINT SPACING 15' MAX)  
6" NO. 610 CRUSHED LIMESTONE SUBBASE  
8" LIME TREATED SUBGRADE
- NO. 610 CRUSHED LIMESTONE  
MOOT TYPE V FILTER FABRIC  
8" LIME TREATED SUBGRADE
- BROOM FINISH CONCRETE SIDEWALK

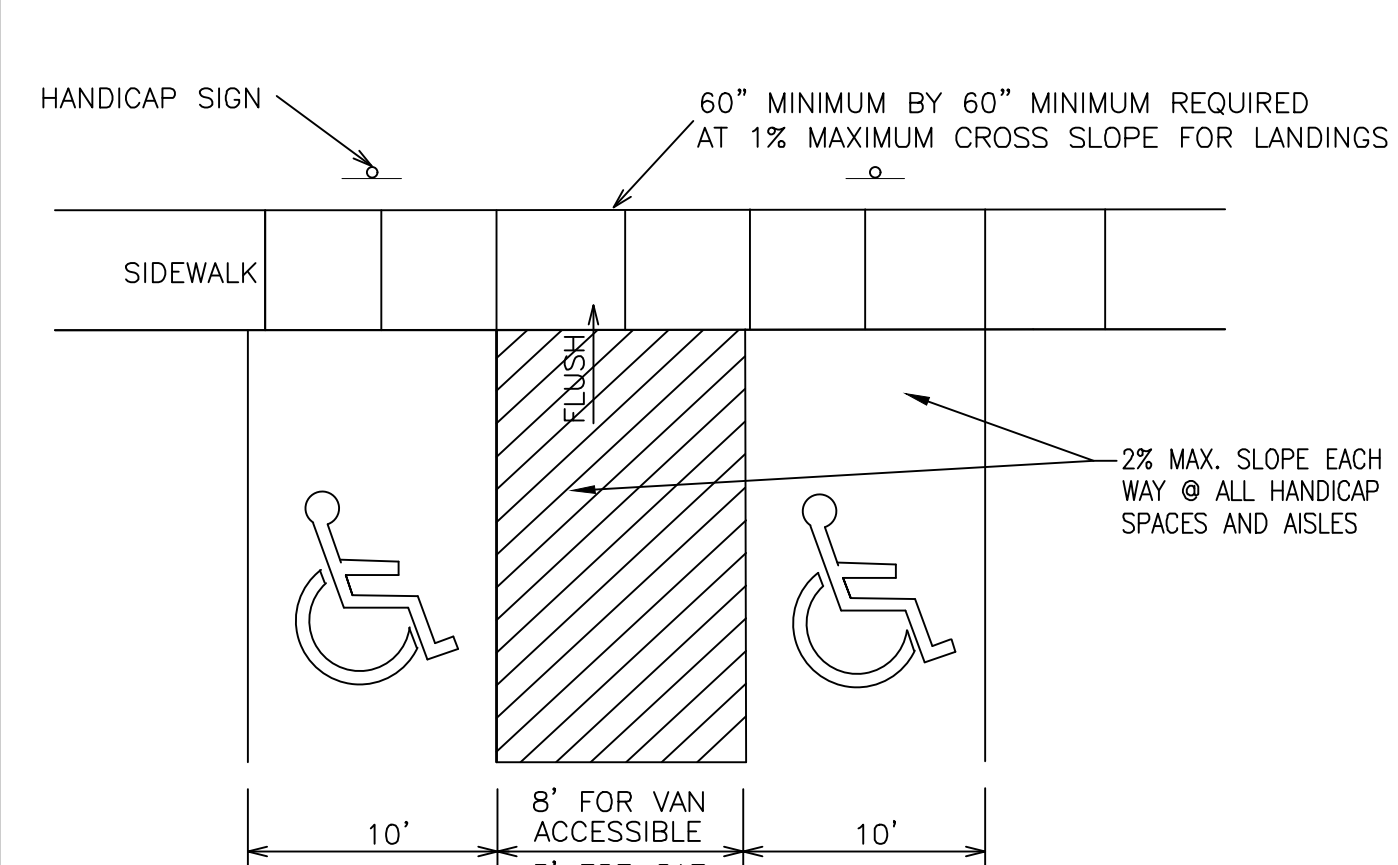


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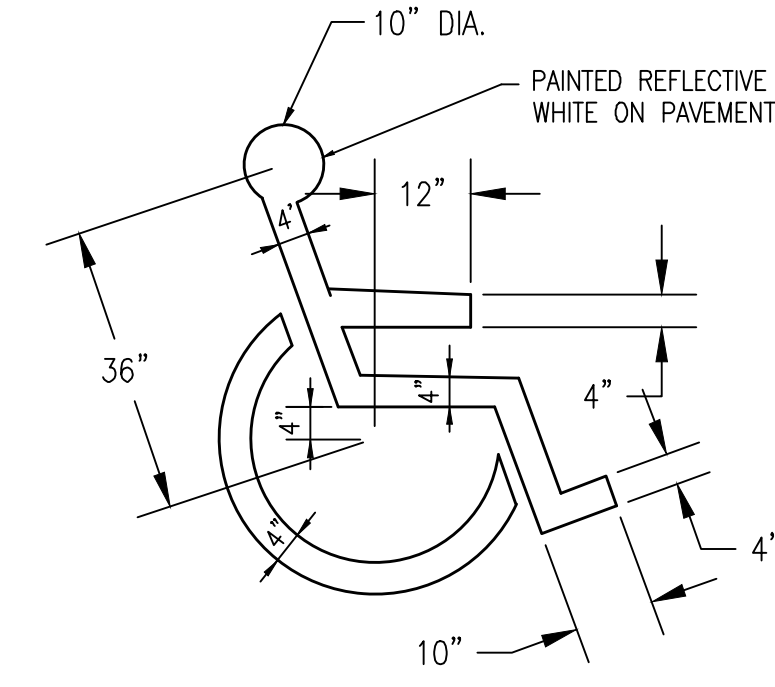
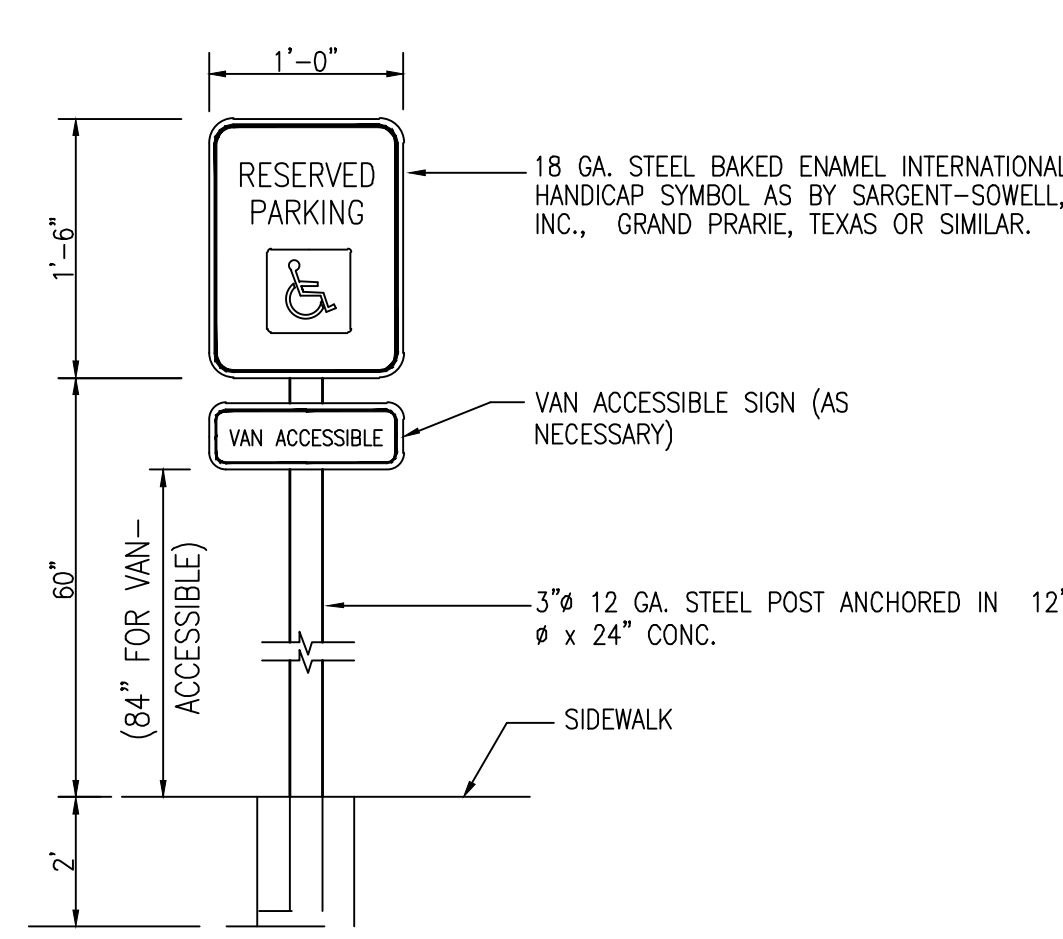




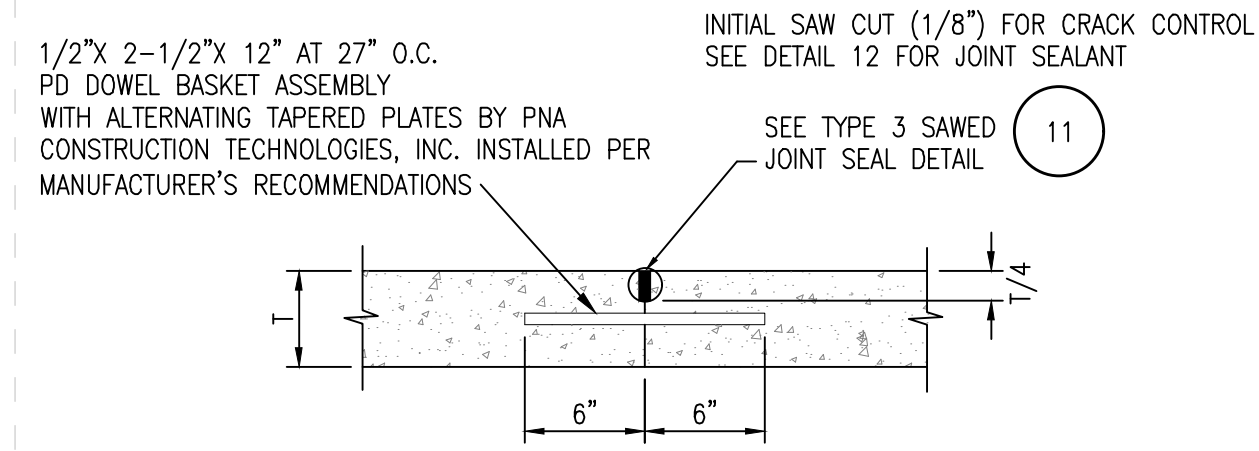
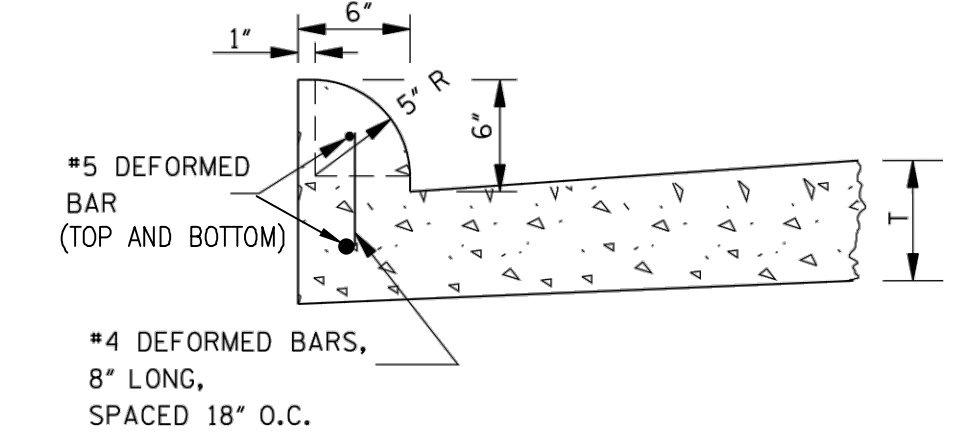
**1 CONCRETE SIDEWALK**  
SCALE: NOT TO SCALE



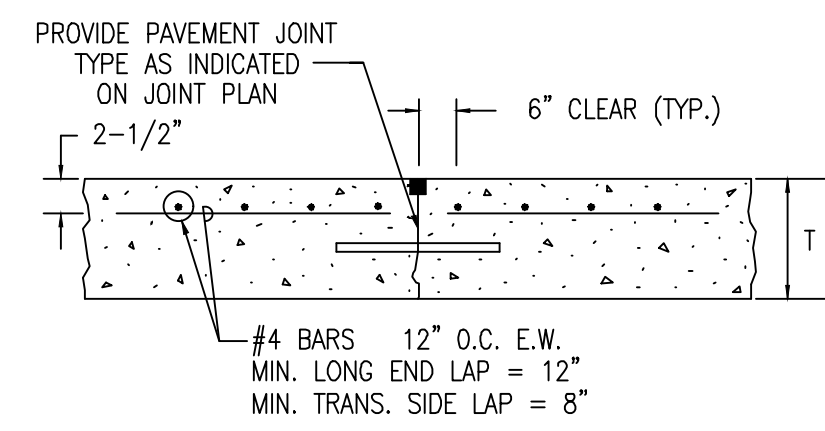
**2 HANDICAP PARKING DETAILS**  
SCALE: NOT TO SCALE



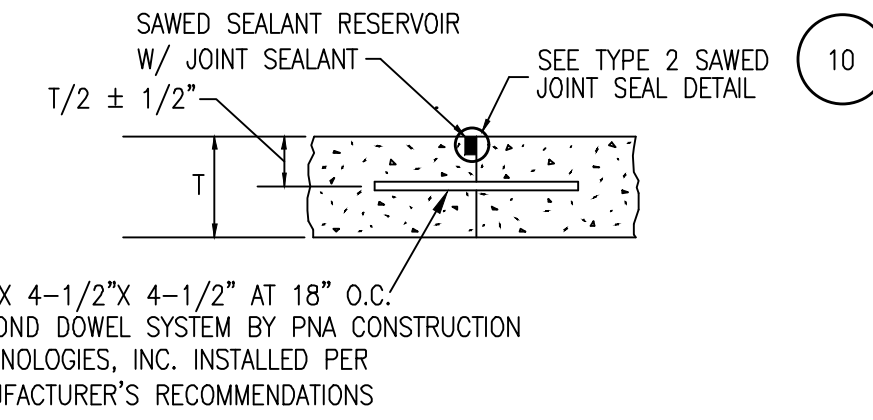
**3 INTEGRAL CURB**  
SCALE: NOT TO SCALE



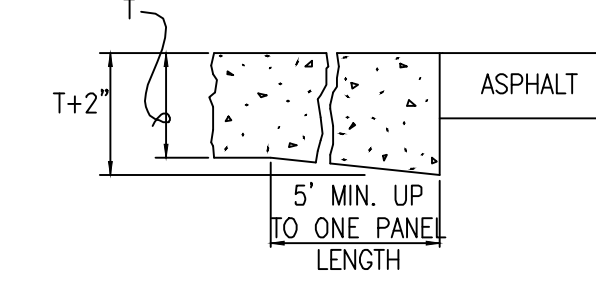
**4 DOWELED CONTRACTION JOINT**  
SCALE: NOT TO SCALE



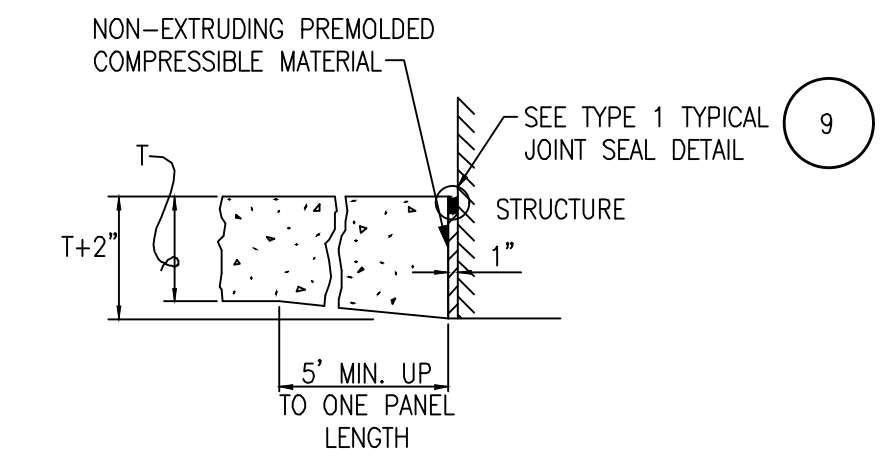
**5 REINFORCED ODD PANELS**  
SCALE: NOT TO SCALE



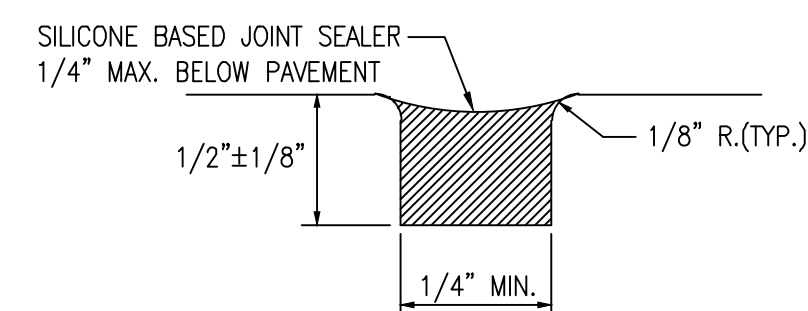
**6 DOWELED CONSTRUCTION JOINT**  
SCALE: NOT TO SCALE



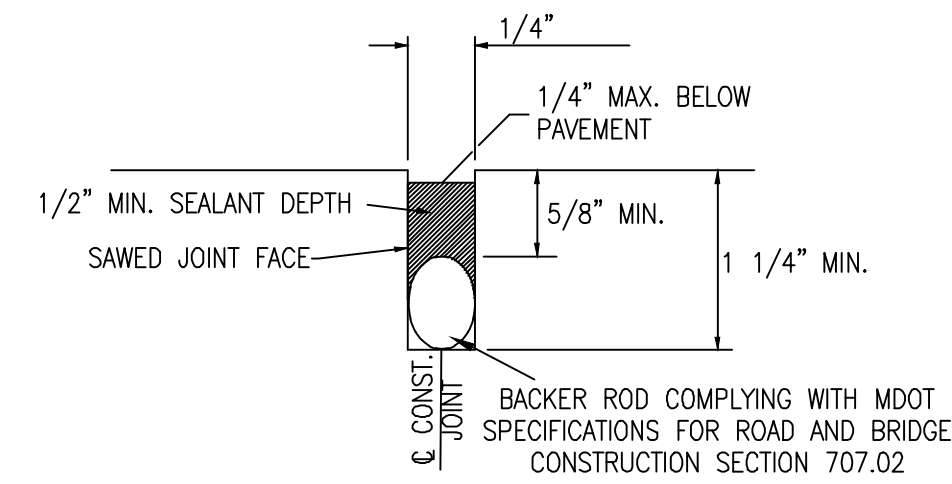
**7 THICKENED EDGE**  
SCALE: NOT TO SCALE



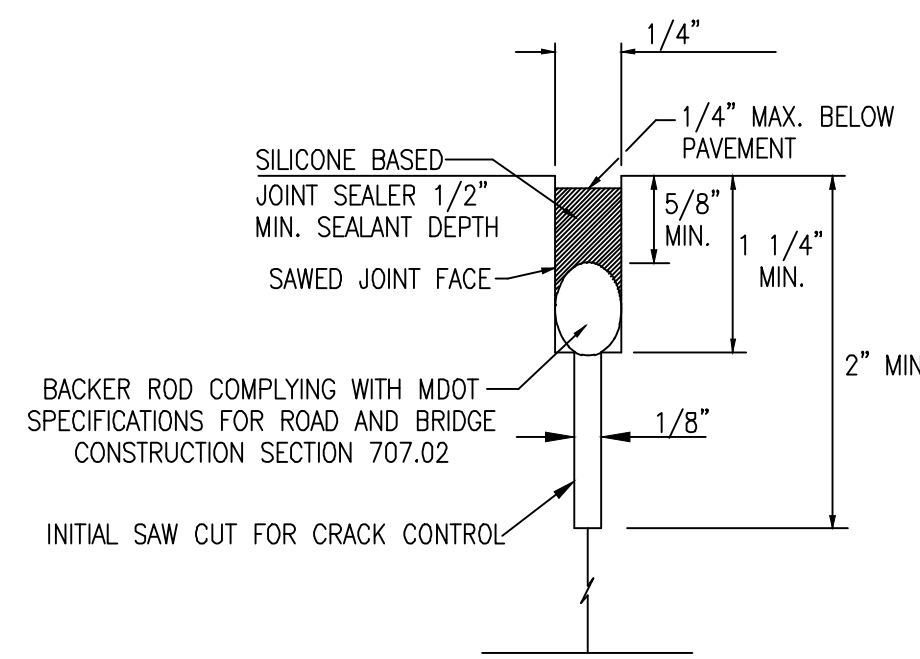
**8 ISOLATION JOINT**  
SCALE: NOT TO SCALE



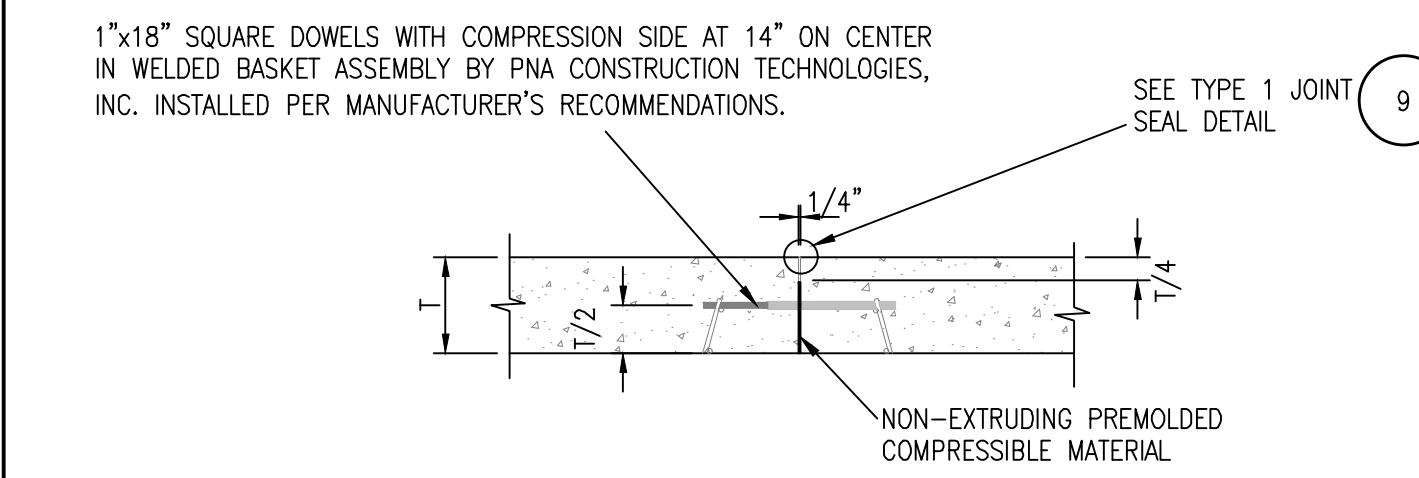
**9 JOINT SEAL - TYPE 1**  
SCALE: NOT TO SCALE



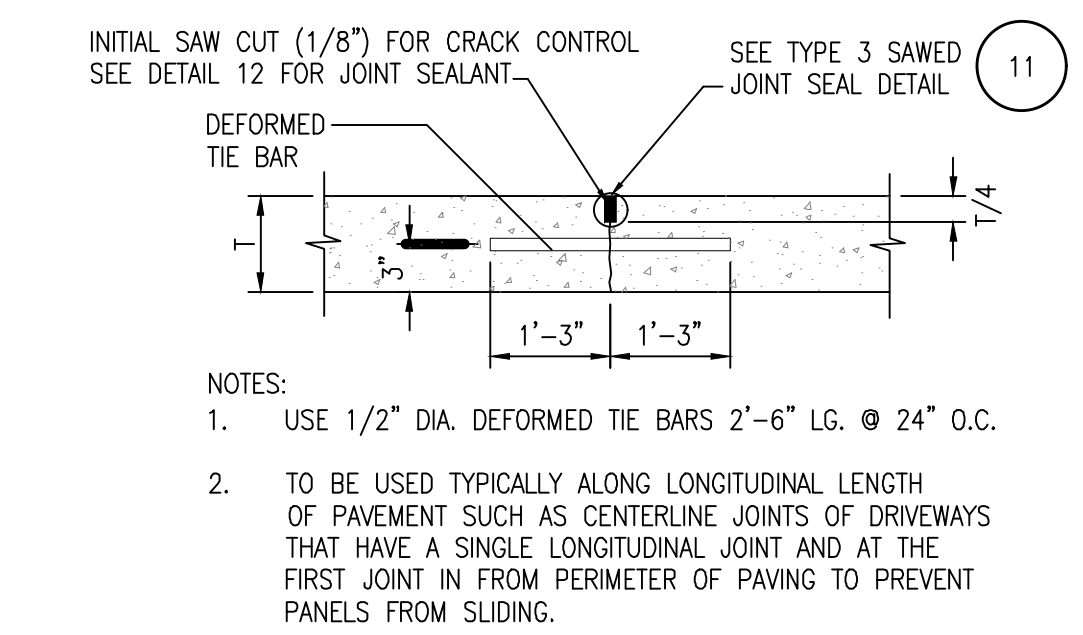
**10 SAWED JOINT SEAL - TYPE 2**  
SCALE: NOT TO SCALE



**11 SAWED JOINT SEAL - TYPE 3**  
SCALE: NOT TO SCALE



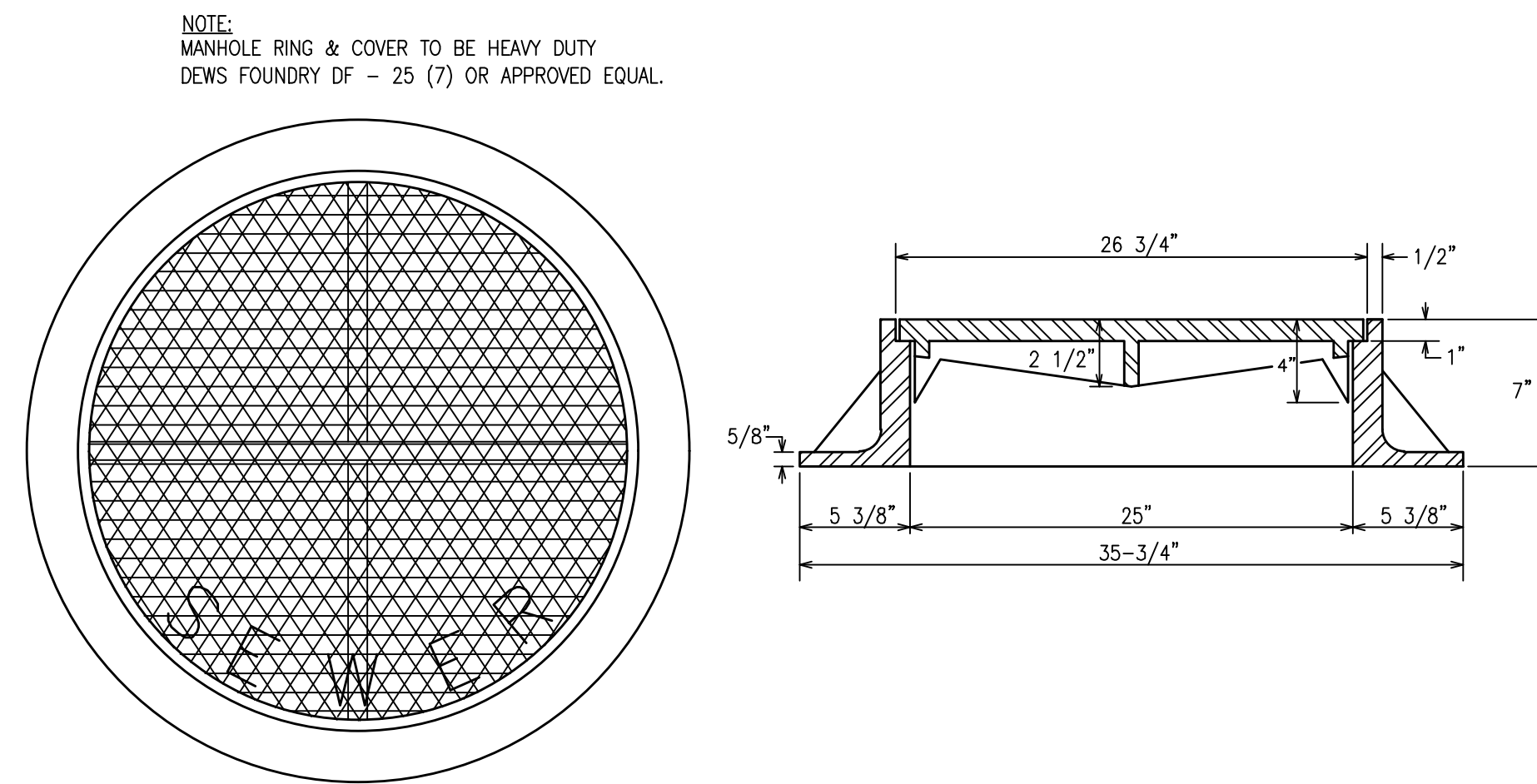
**12 DOWELED ISOLATION JOINT**  
SCALE: NOT TO SCALE



**13 TIED CONTRACTION JOINT**  
SCALE: NOT TO SCALE

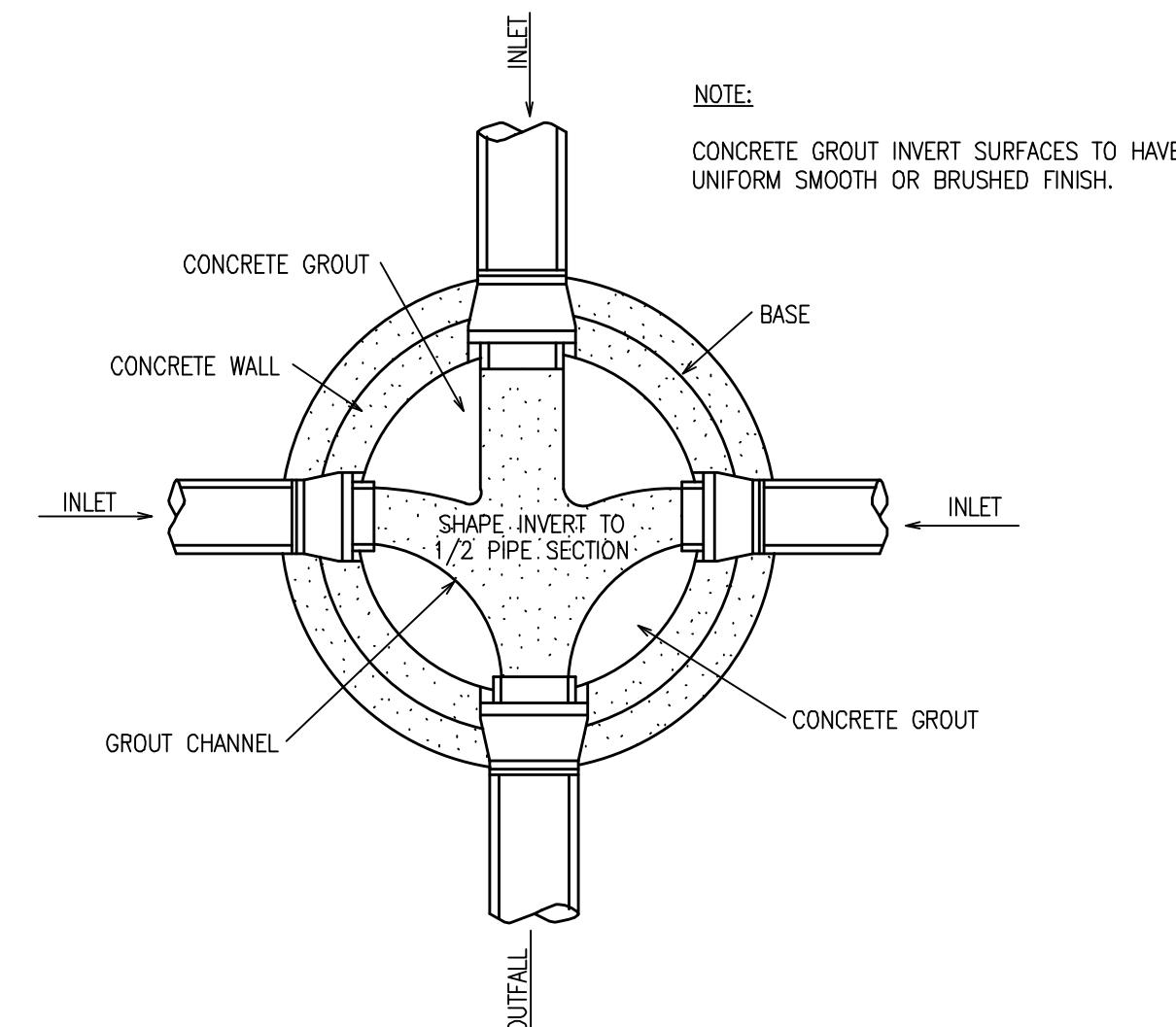






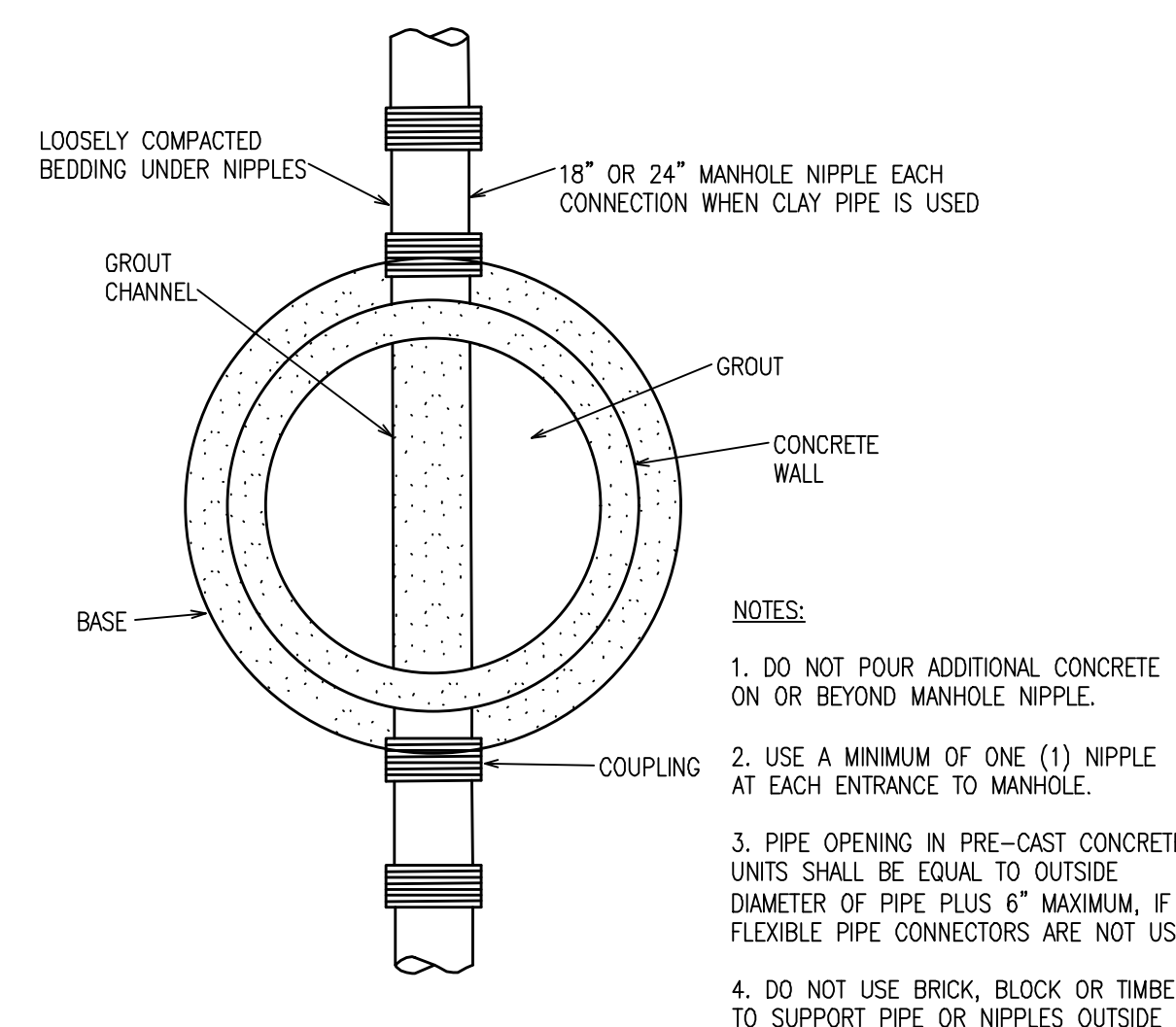
NOTE:  
MANHOLE RING & COVER TO BE HEAVY DUTY  
DEWS FOUNDRY DF - 25 (7) OR APPROVED EQUAL.

1 **MANHOLE CASTING DETAILS**  
SCALE: NOT TO SCALE



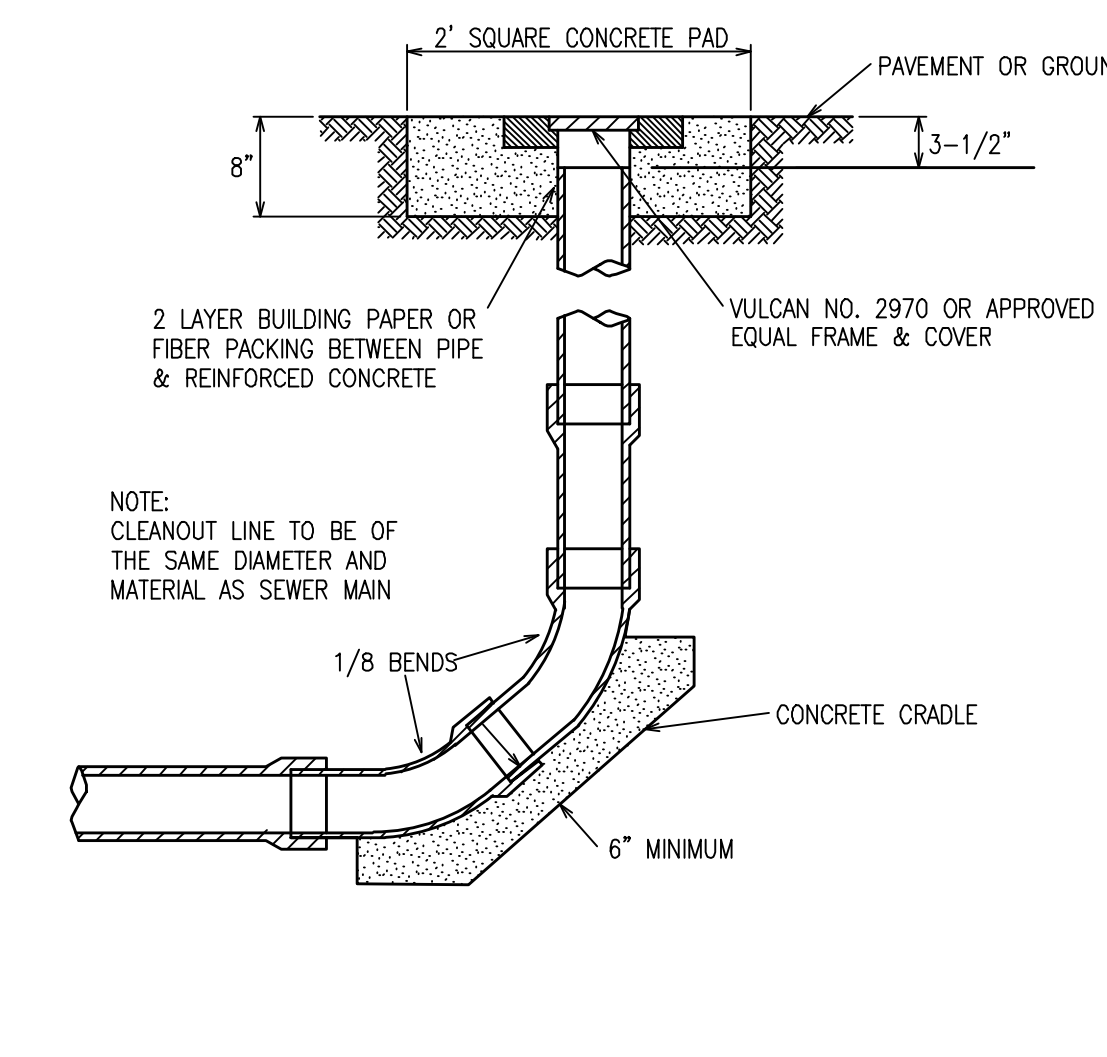
NOTE:  
CONCRETE GROUT INVERT SURFACES TO HAVE  
UNIFORM SMOOTH OR BRUSHED FINISH.

4 **MANHOLE FLOW CHANNELS DETAIL**  
SCALE: NOT TO SCALE



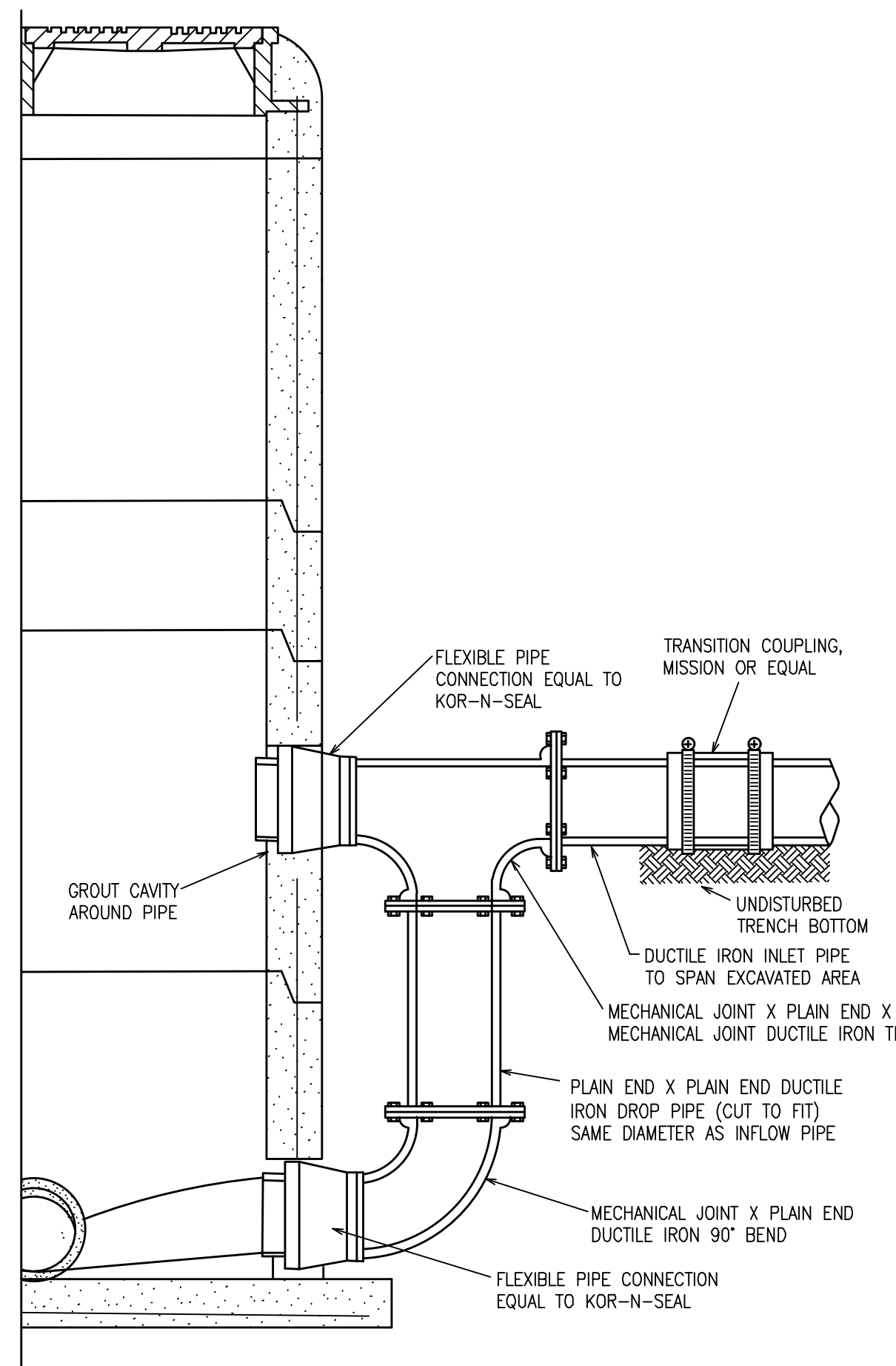
NOTES:  
1. DO NOT POUR ADDITIONAL CONCRETE ON OR BEYOND MANHOLE NIPPLE.  
2. USE A MINIMUM OF ONE (1) NIPPLE AT EACH ENTRANCE TO MANHOLE.  
3. PIPE OPENING IN PRE-CAST CONCRETE UNITS SHALL BE EQUAL TO OUTSIDE DIAMETER OF PIPE PLUS 6" MAXIMUM, IF FLEXIBLE PIPE CONNECTORS ARE NOT USED.  
4. DO NOT USE BRICK, BLOCK OR TIMBER TO SUPPORT PIPE OR NIPPLES OUTSIDE OF MANHOLE.

5 **TYPICAL PIPE CONNECTION TO MANHOLE**  
SCALE: NOT TO SCALE

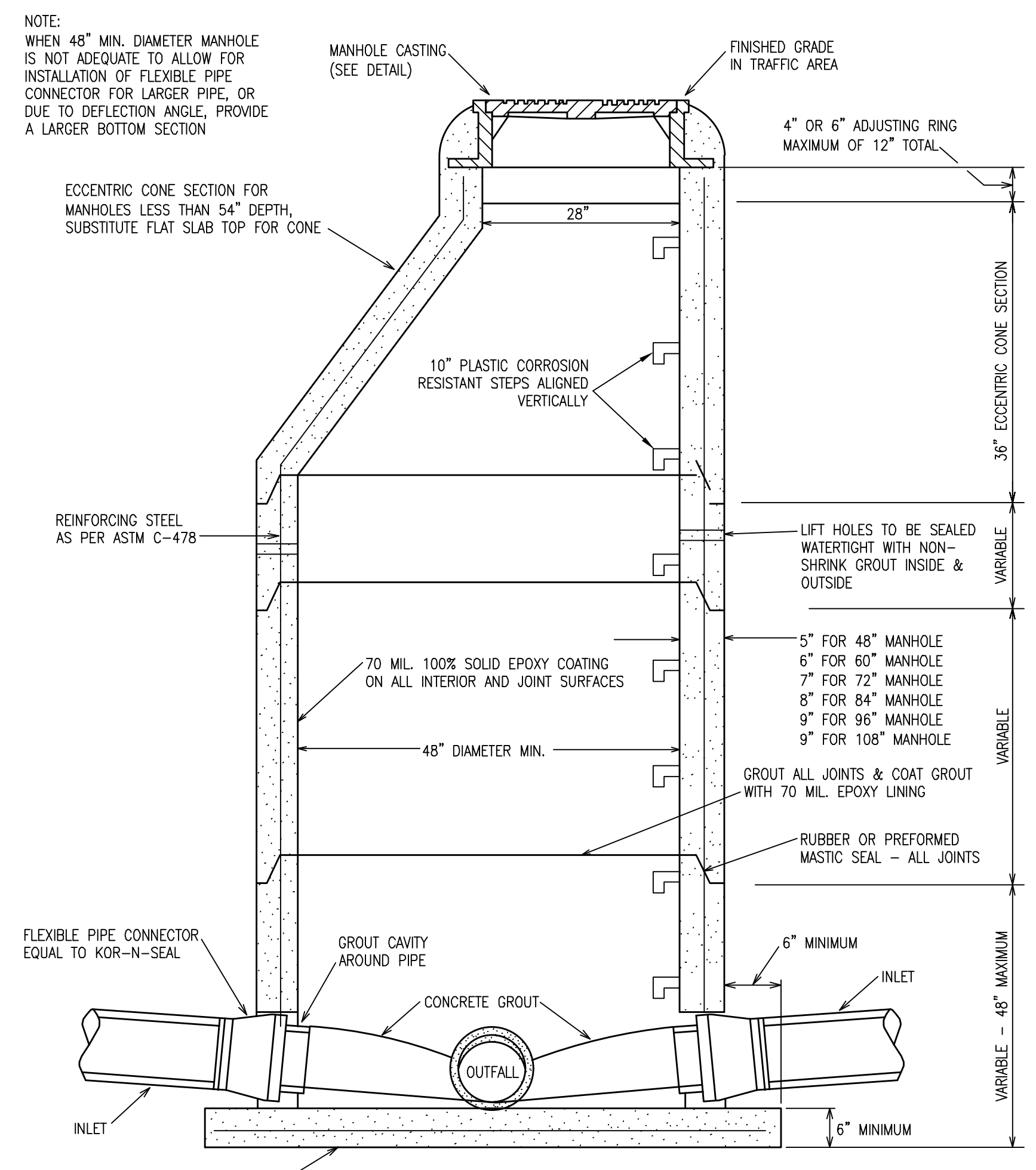


NOTE:  
CLEANOUT LINE TO BE OF THE SAME DIAMETER AND MATERIAL AS SEWER MAIN

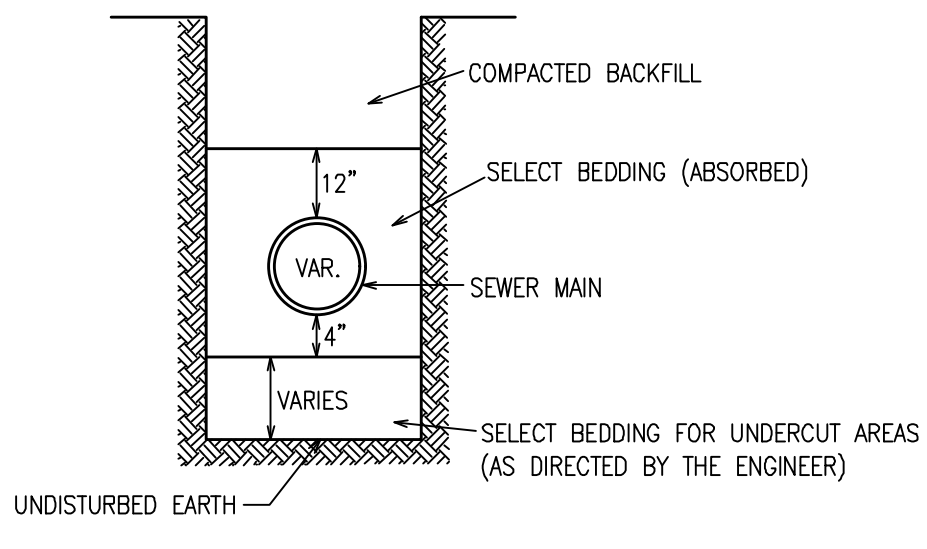
6 **TERMINAL CLEANOUT**  
SCALE: NOT TO SCALE



2 **SECTION PRECAST CONCRETE MANHOLE WITH DROP CONNECTION**  
SCALE: NOT TO SCALE

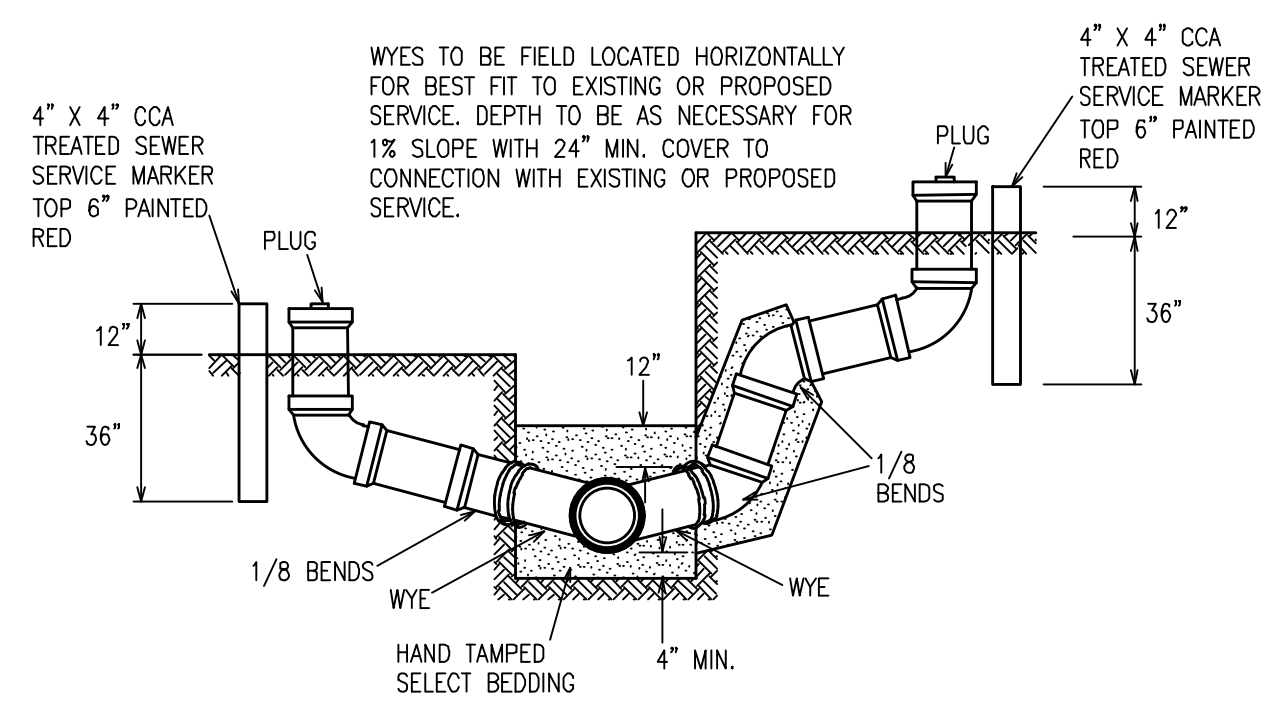


3 **SECTION PRECAST CONCRETE MANHOLE**  
SCALE: NOT TO SCALE



NOTE:  
1. NATIVE MATERIAL SHALL BE USED FOR TRENCH BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.  
2. SELECT MATERIAL SHALL BE USED FOR TRENCH BACKFILL WHEN NATIVE MATERIAL IS UNSUITABLE AND FOR ALL TRENCHES CONSTRUCTED IN ROADWAYS.

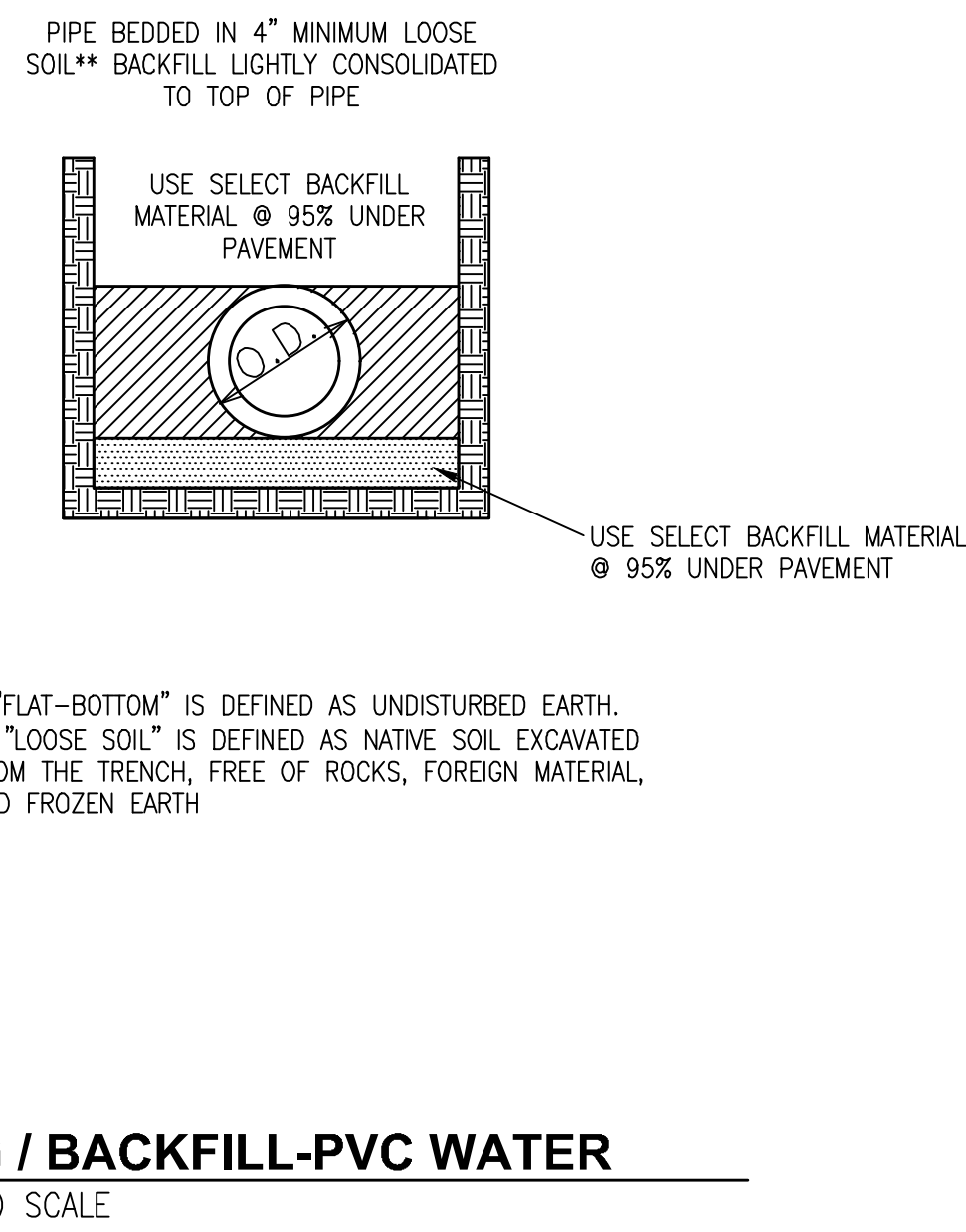
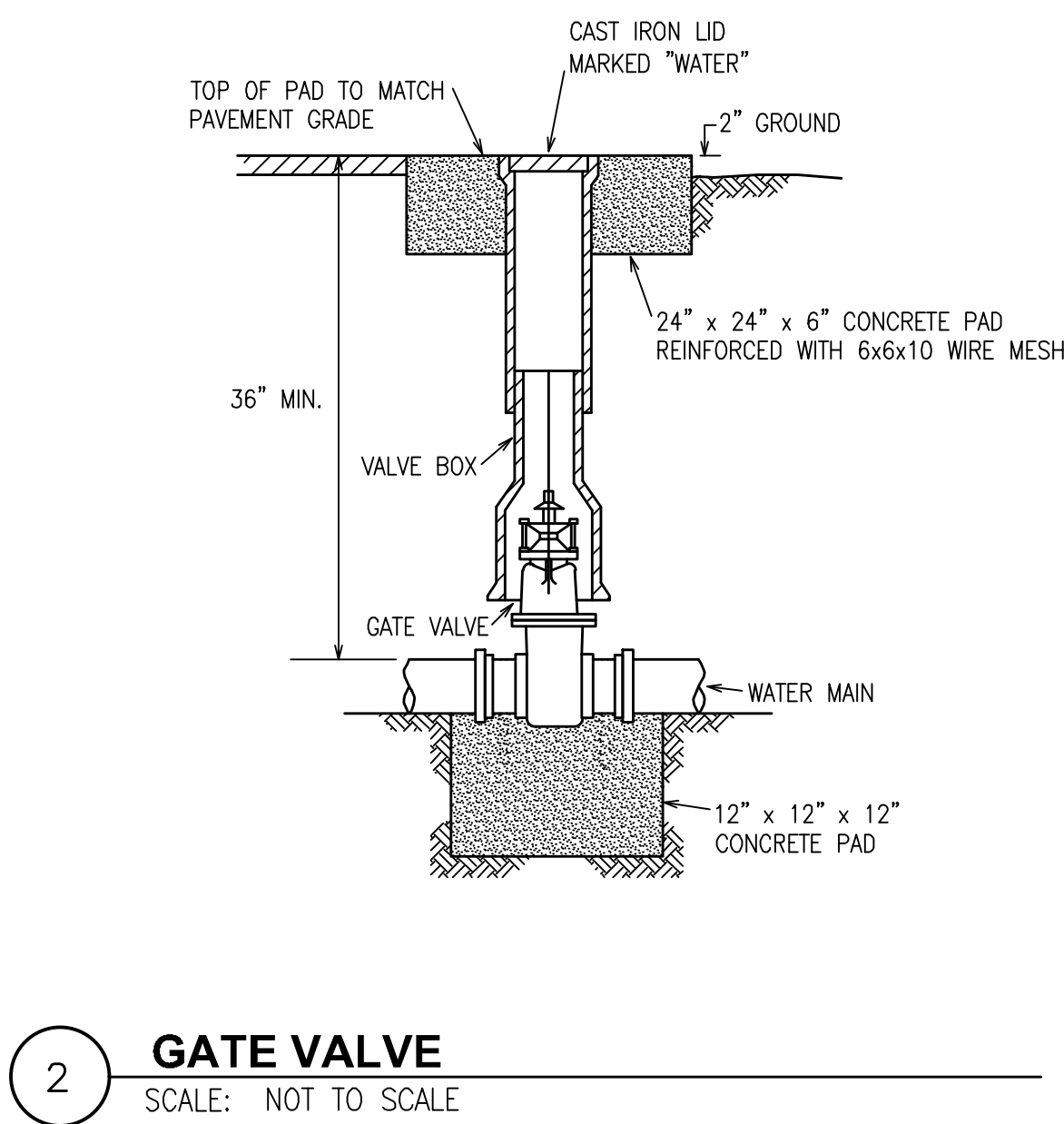
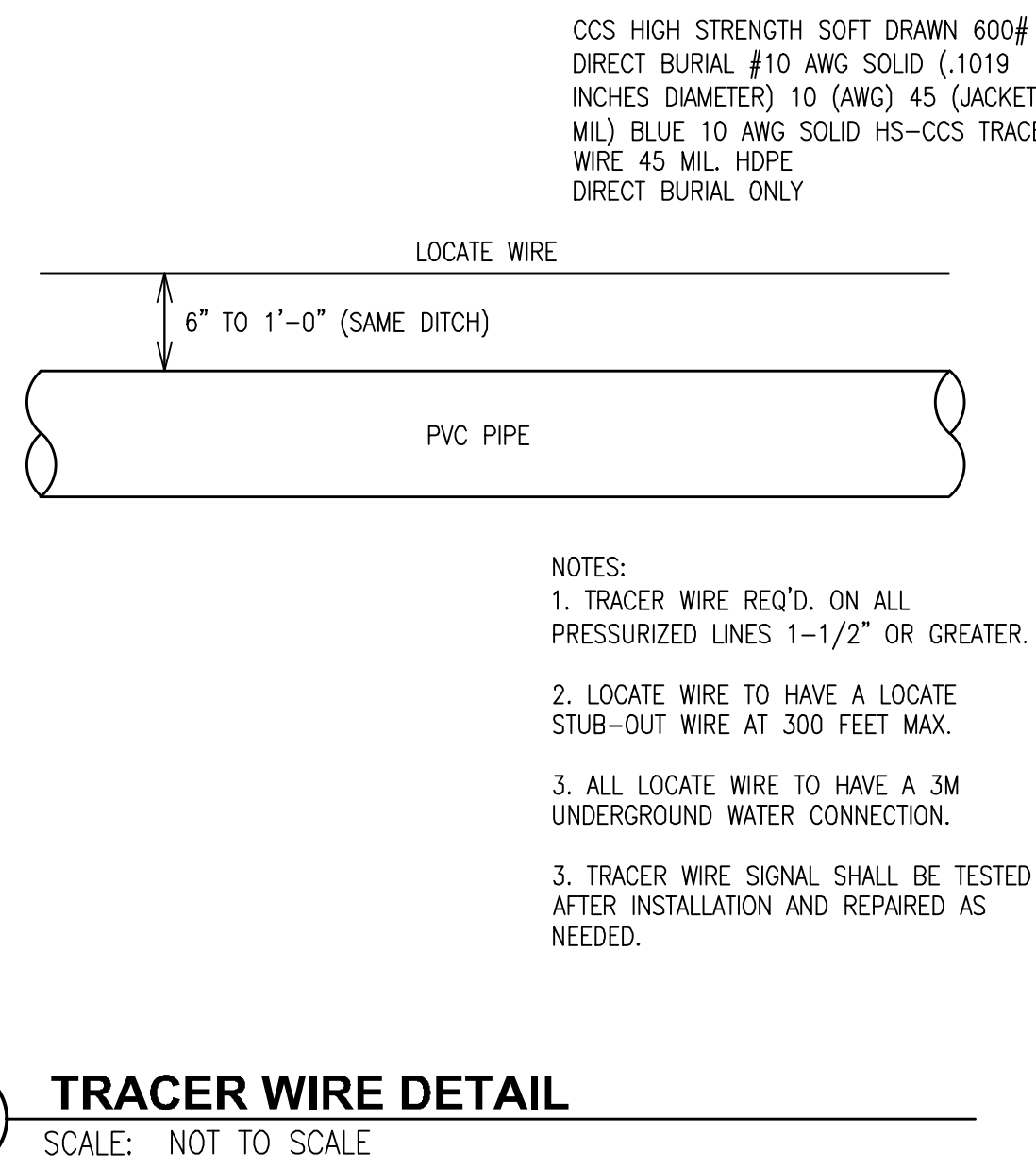
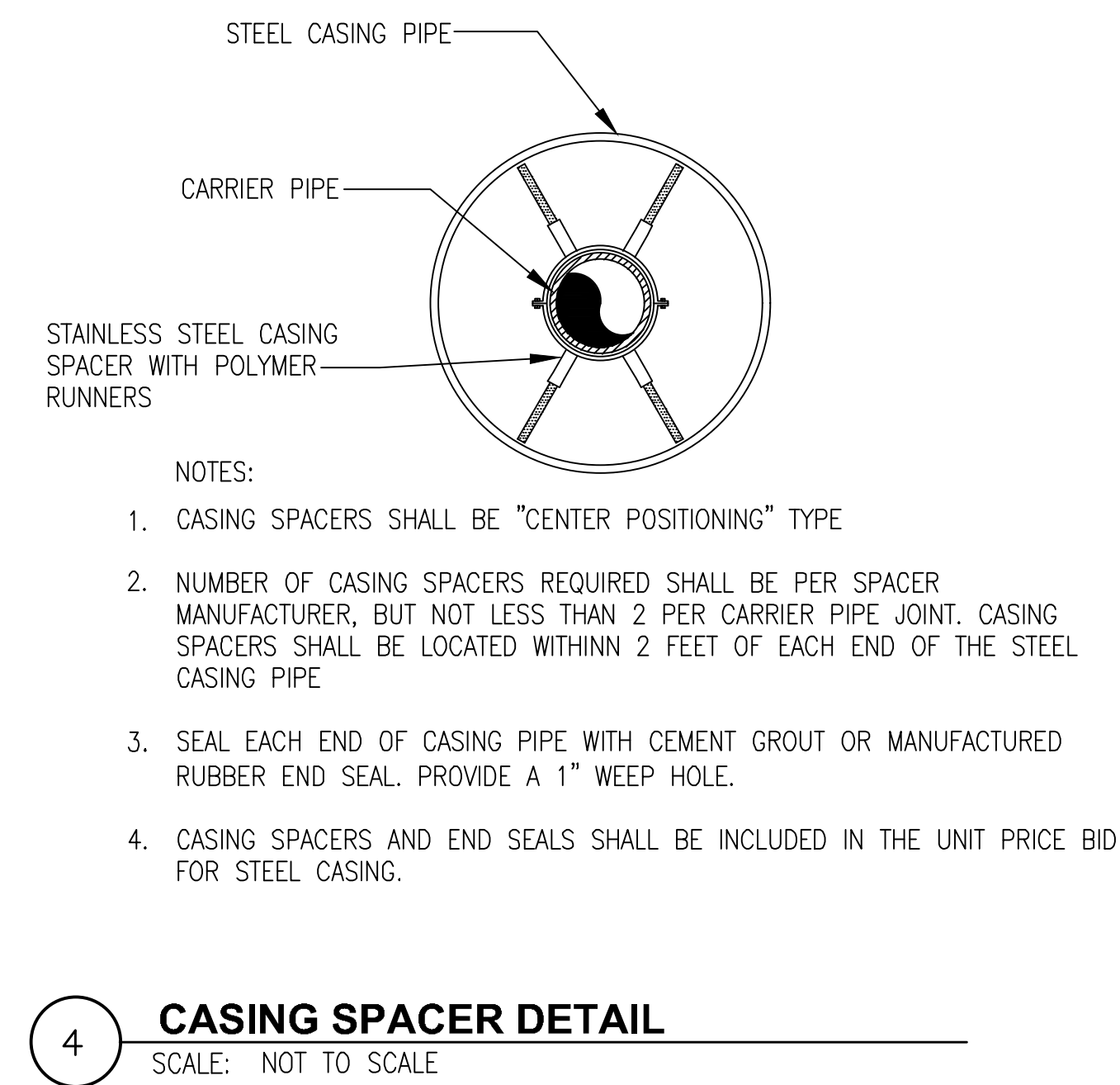
7 **BEDDING / BACKFILL GRAVITY SEWER**  
SCALE: NOT TO SCALE



8 **TYPICAL SERVICE CONNECTIONS**  
SCALE: NOT TO SCALE







1 BEDDING / BACKFILL-PVC WATER  
SCALE: NOT TO SCALE

2 GATE VALVE  
SCALE: NOT TO SCALE

3 TRACER WIRE DETAIL  
SCALE: NOT TO SCALE

4 CASING SPACER DETAIL  
SCALE: NOT TO SCALE

BEARING AREA IN SQ. FT.

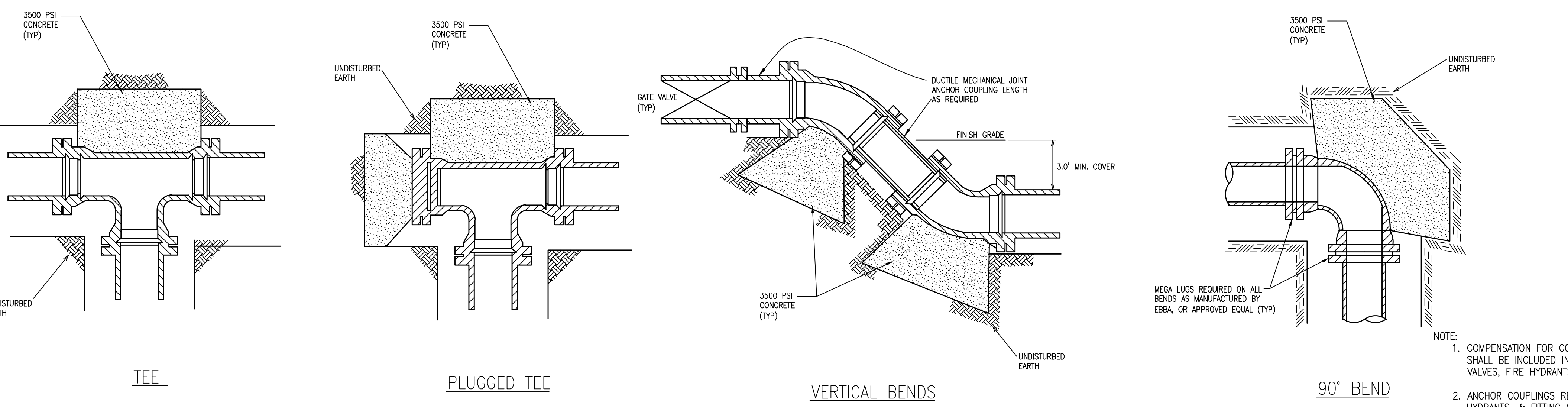
NOMINAL PIPE DIAMETER (IN)	DEAD-END OR TEE	90° BEND	45° BEND	22-1/2° BEND	11-1/4° BEND
4	2.0	2.0	2.0	2.0	2.0
6	2.0	2.0	2.0	2.0	2.0
8	3.0	3.0	2.0	2.0	2.0
12	5.0	5.0	4.0	3.0	3.0
16	8.0	12.0	6.0	4.0	4.0

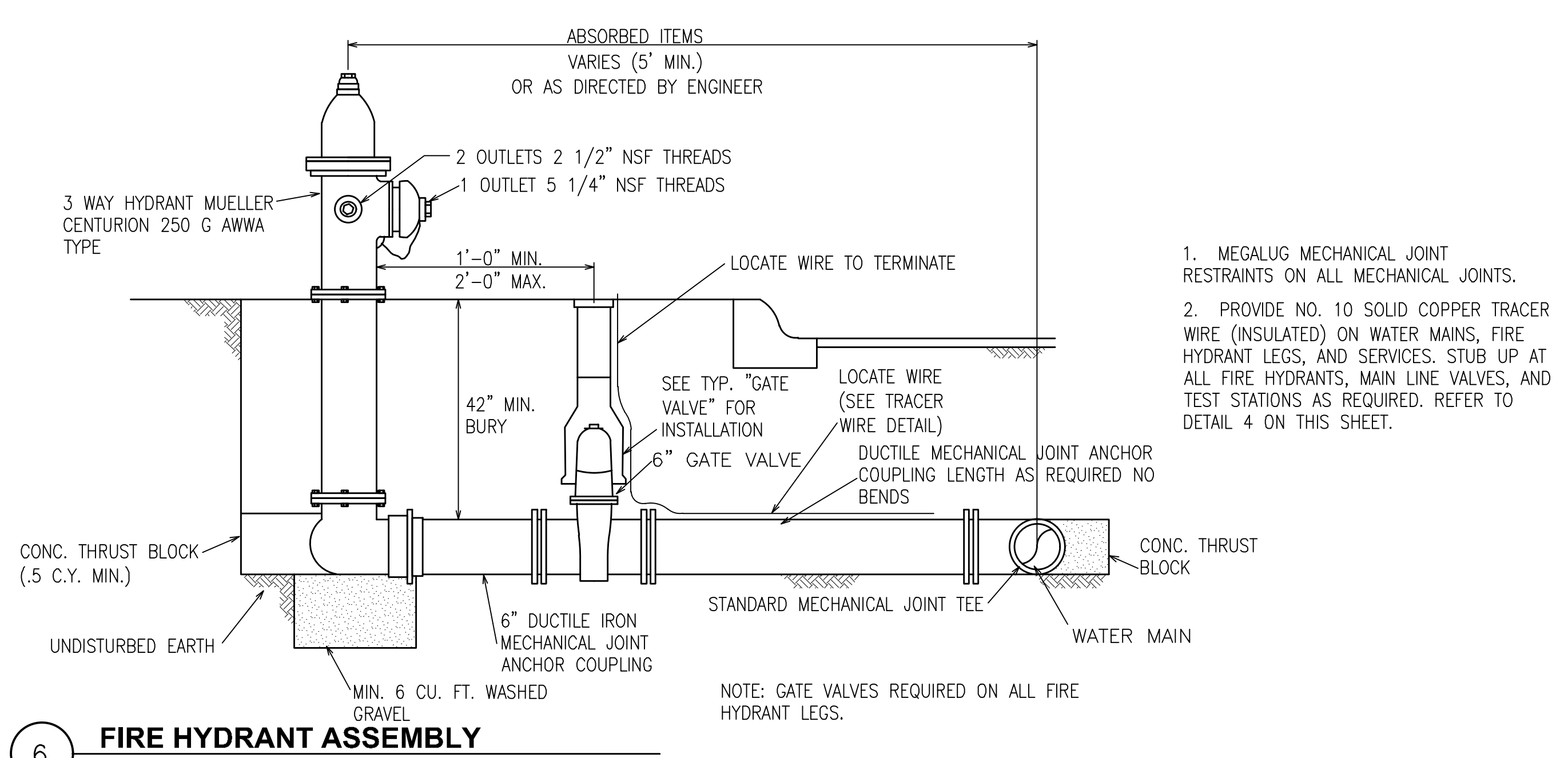
4	6.0 (22)	4.0 (15)	4.0 (15)
6	14.0 (52)	6.0 (22)	4.0 (15)
8	27.0 (10)	9.0 (33)	6.0 (22)
12	68.0 (25)	22.0 (80)	9.0 (33)
16	90.0 (333)	52.0 (19)	18.0 (67)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

NOTE: MEGA LUGS REQUIRED AT ALL LOCATIONS WITH THRUST BLOCKING AS MANUFACTURED BY EBBA, OR APPROVED EQUAL

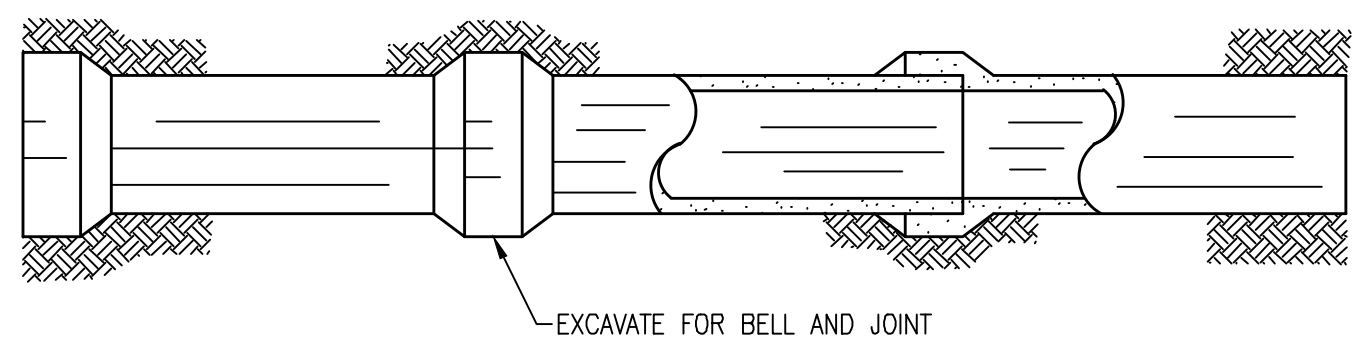


5 TYPICAL BLOCKING ON WATER MAIN  
SCALE: NOT TO SCALE



6 FIRE HYDRANT ASSEMBLY  
SCALE: NOT TO SCALE



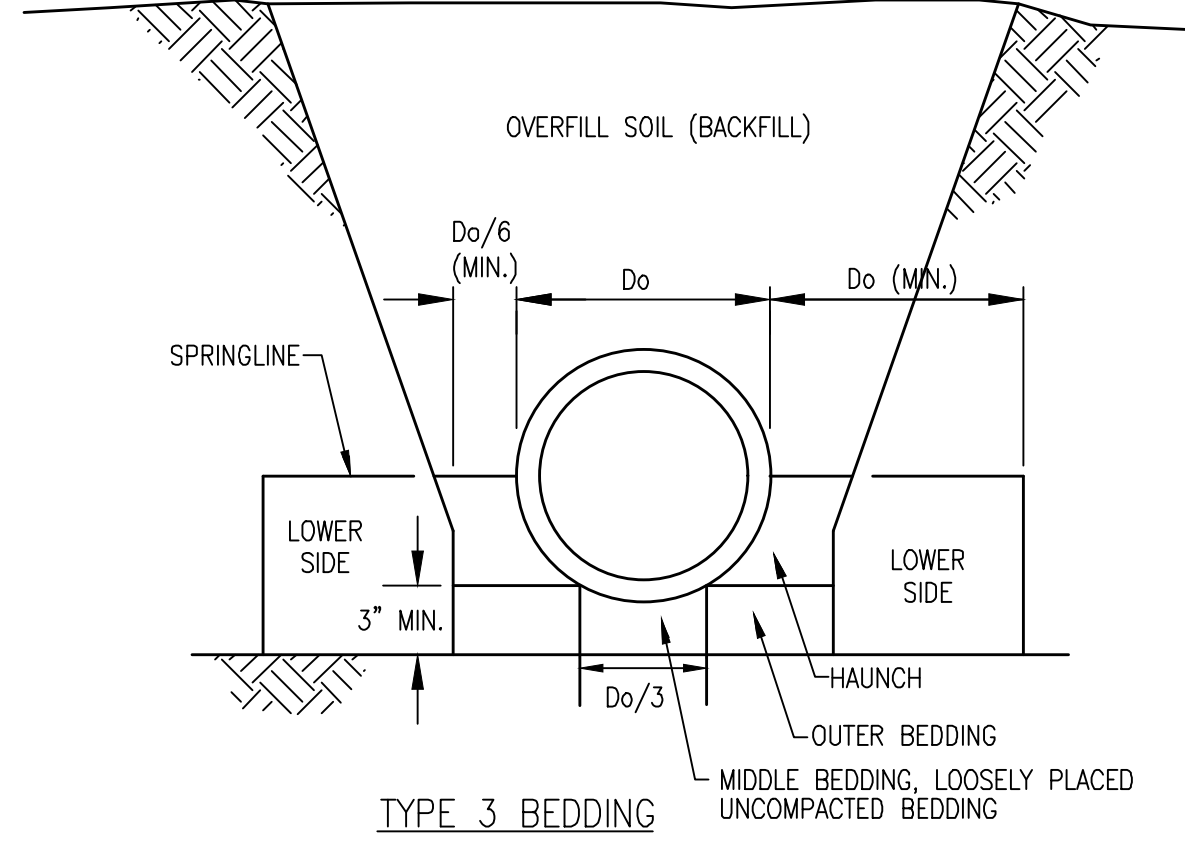


1. ALL ROUND REINFORCED CONCRETE STORM PIPES TO HAVE RUBBER GASKETS AND FILTER FABRIC TYPE V WRAPPED AT ALL JOINTS FOR FULL CIRCUMFERENCE OF PIPE WITH 18"-24" OVERLAP.
2. ALL ARCHED REINFORCED CONCRETE PIPE TO HAVE MASTIC AND FILTER FABRIC WRAPPED AT ALL JOINTS FOR FULL CIRCUMFERENCE OF PIPE WITH 18"-24" OVERLAP.
3. USE POPIT PLUG WITH TAR OR GROUT AND SQUARE TOP FILTER FABRIC TO COVER LIFTING HOLES.

**1 STORM SEWER CONSTRUCTION**  
SCALE: NOT TO SCALE

**NOTES:**

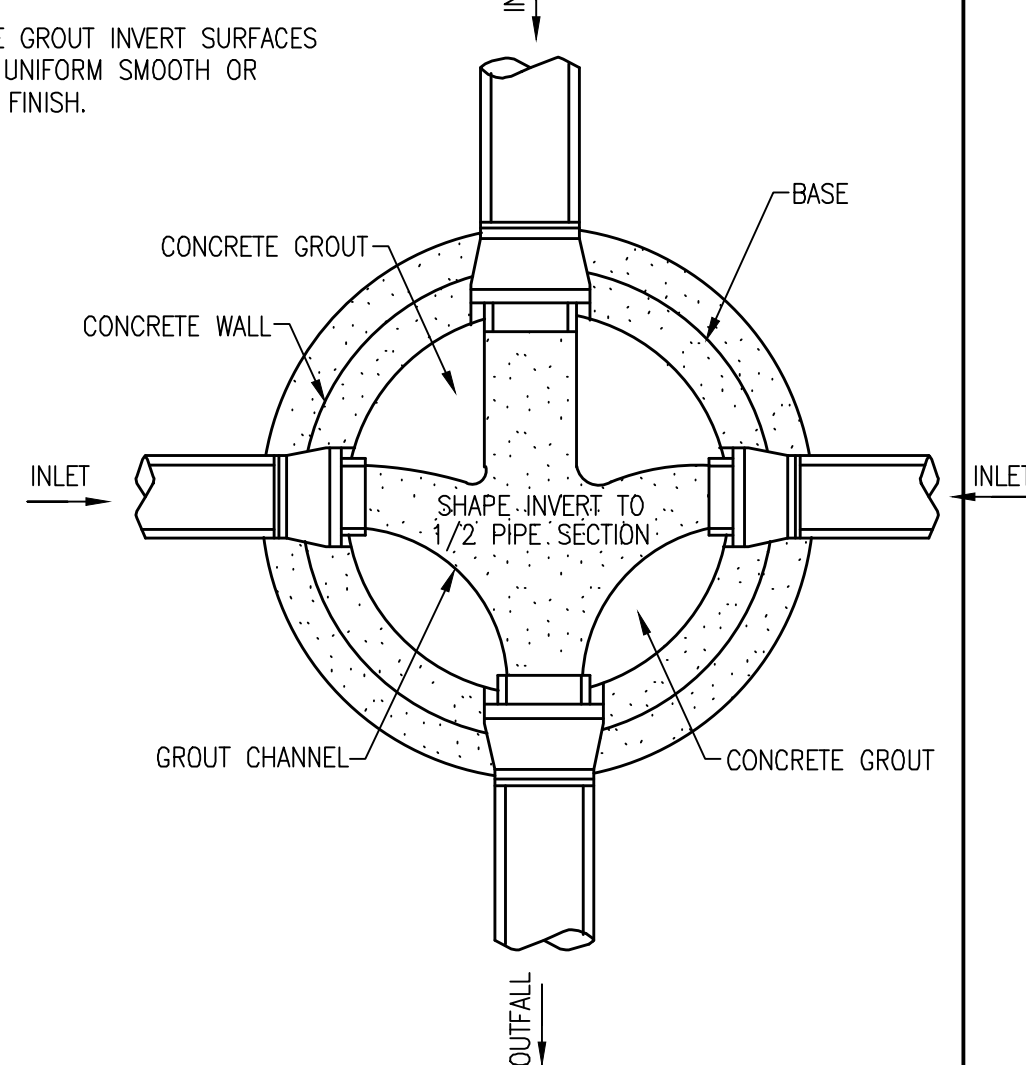
1. BEDDING AND BACKFILL DETAILS ARE PER THE RECOMMENDATIONS OF THE AMERICAN CONCRETE PIPE ASSOCIATION.
2. HAUNCH, OUTER BEDDING, LOWER SIDE, AND OVERFILL SOIL SHALL BE:  
CATEGORY I (GRAVELLY SAND) COMPACTED TO 85% STANDARD PROCTOR,  
CATEGORY II (SANDY SILT) COMPACTED TO 90% STANDARD PROCTOR, OR  
CATEGORY III (SILTY CLAY) COMPACTED TO 95% STANDARD PROCTOR.
3. SOIL CATEGORIES I, II, AND III ARE AS DEFINED BY THE AMERICAN CONCRETE PIPE ASSOCIATION.
4. RUBBER GASKET JOINTS REQUIRED.
5. CLEARANCE BETWEEN PIPE AND TRENCH WALL SHALL BE ADEQUATE TO ENABLE SPECIFIC COMPACTION, BUT NOT LESS THAN  $D_o/6$ .



**2 CONCRETE PIPE BEDDING / BACKFILL**  
SCALE: N.T.S.

**NOTE:**

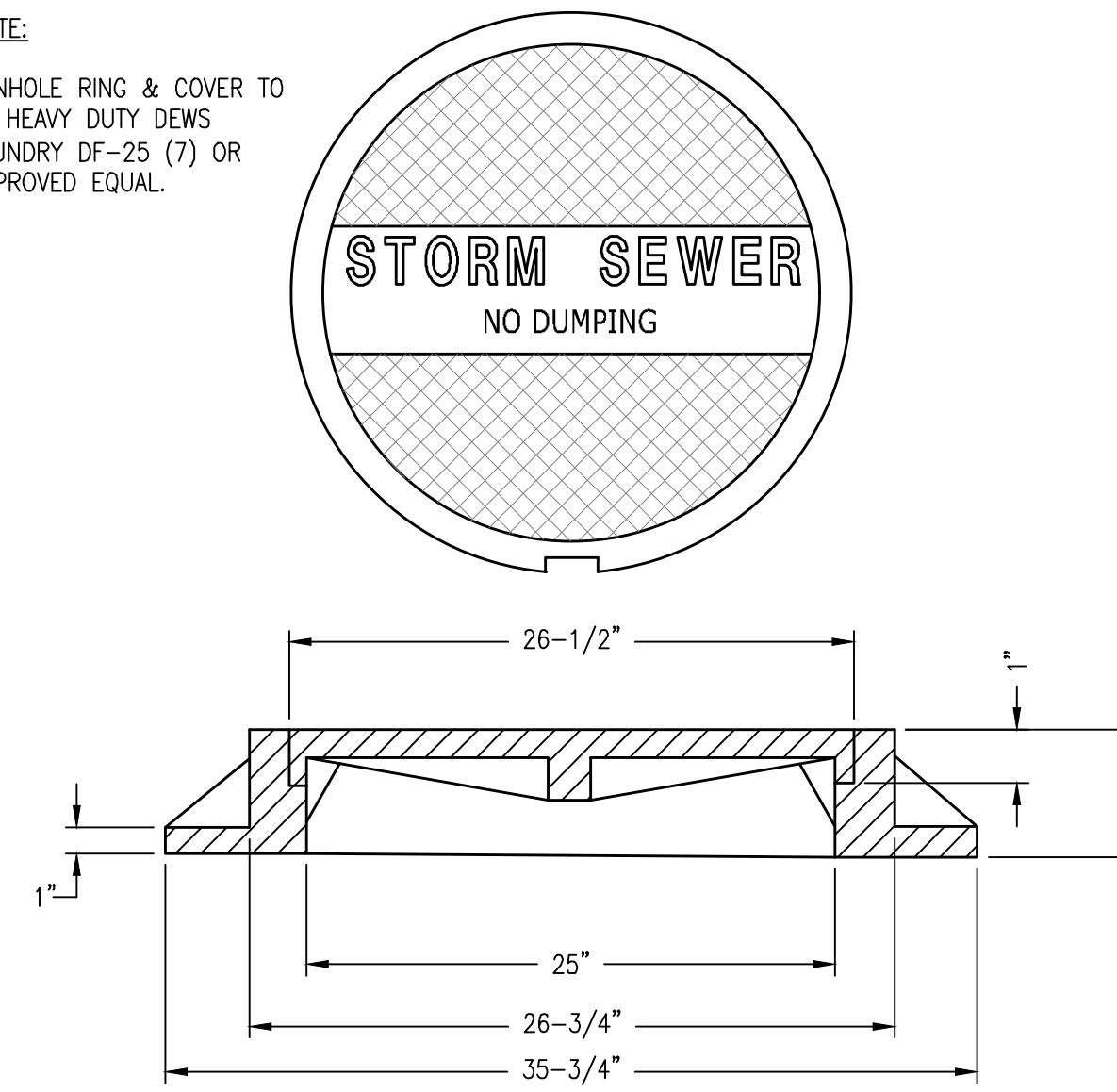
CONCRETE GROUT INVERT SURFACES TO HAVE UNIFORM SMOOTH OR BRUSHED FINISH.



**3 MANHOLE FLOW CHANNELS**  
SCALE: NOT TO SCALE

**NOTE:**

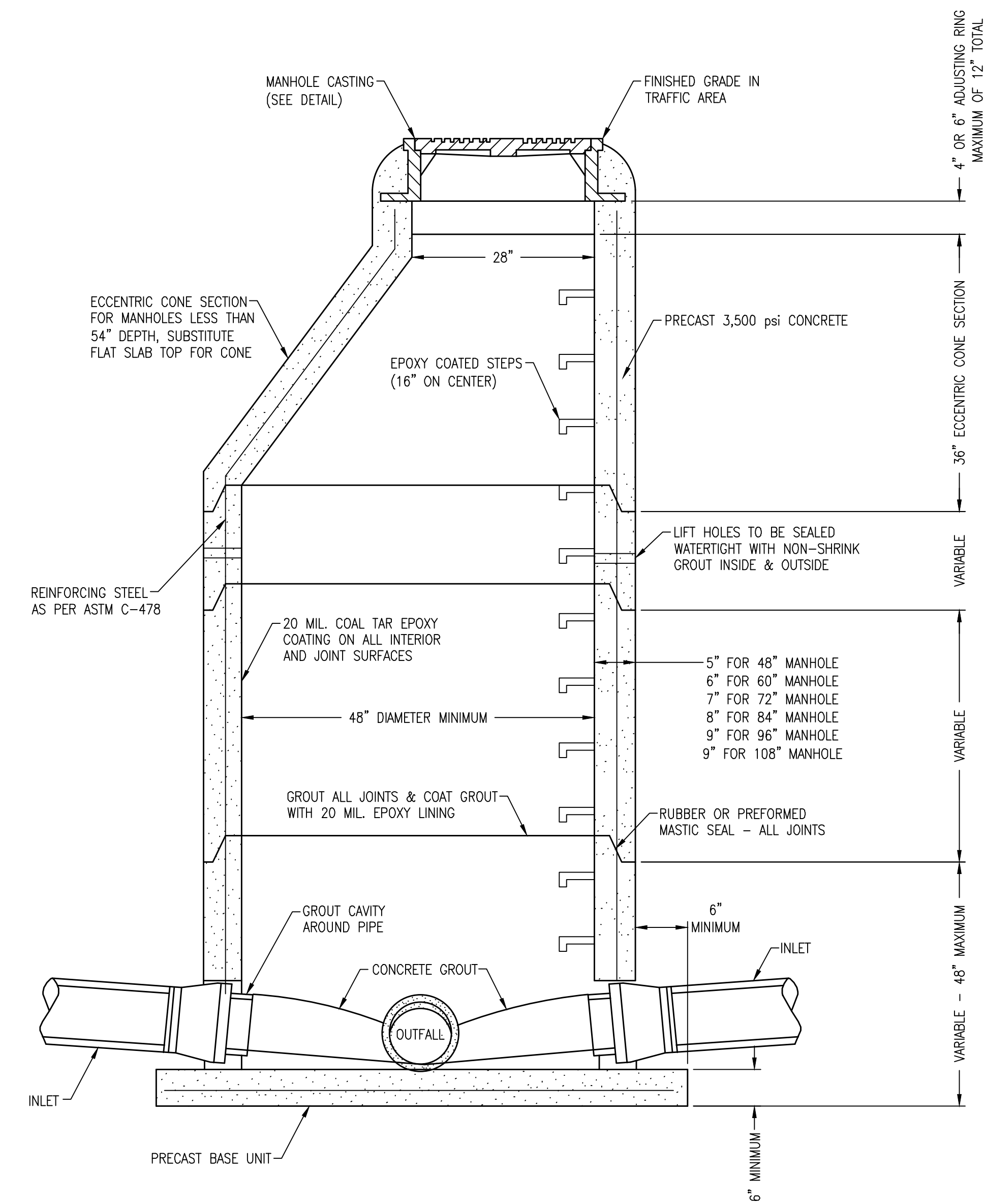
MANHOLE RING & COVER TO BE HEAVY DUTY DEWS FOUNDRY DF-25 (7) OR APPROVED EQUAL.



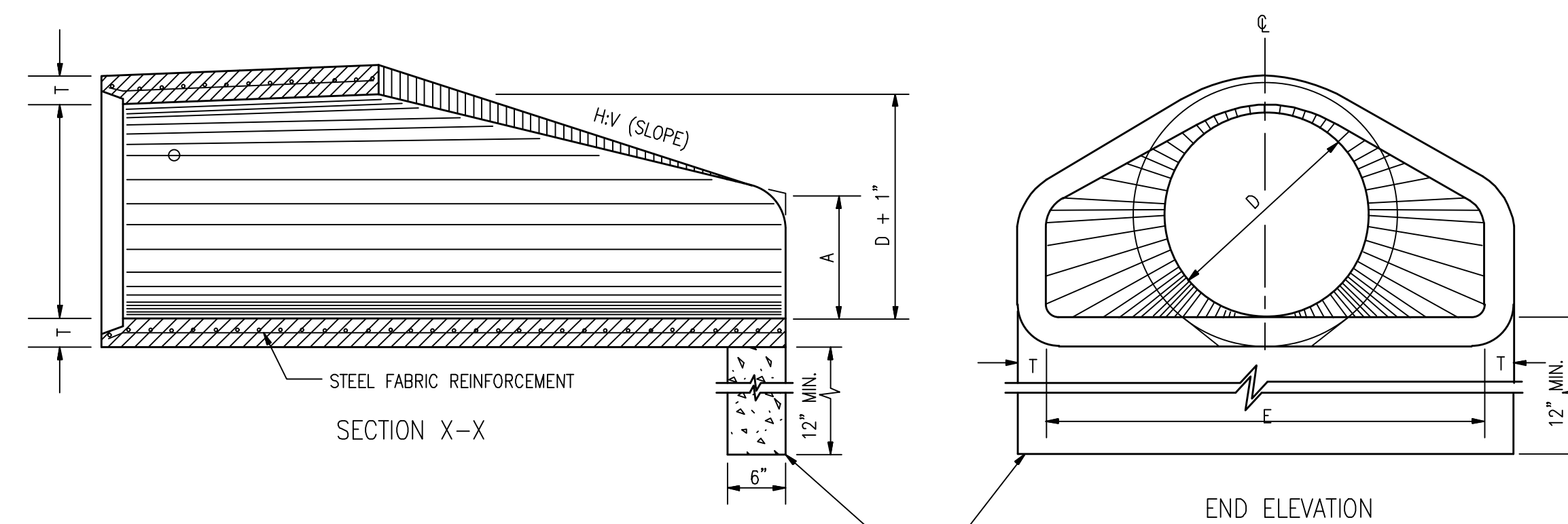
**4 MANHOLE CASTING**  
SCALE: NOT TO SCALE

**NOTE:**

WHEN 48" MINIMUM DIAMETER MANHOLE IS NOT ADEQUATE TO ALLOW FOR INSTALLATION OF FLEXIBLE PIPE CONNECTOR FOR LARGER PIPE, OR DUE TO DEFLECTION ANGLE, PROVIDE A LARGER BOTTOM SECTION.



**5 DRAINAGE MANHOLE**  
SCALE: NOT TO SCALE



**BELL AND SPIGOT END OPTION**

NOTE: BELL-END ON DOWNSTREAM SECTION SPIGOT-END ON UPSTREAM SECTION.

**TABLE OF DIMENSIONS**

D	T	HV	A	B	C	E	L
15"	2 1/4"	3:1	6"	2'-3"	4'-1"	2'-8"	6'-1"
18"	2 1/2"	3:1	9"	2'-3"	3'-10"	3'-0"	6'-1"
24"	3"	3:1	10"	3'-8"	2'-6"	4'-0"	6'-2"
30"	3 1/2"	3:1	1'-0"	4'-6"	1'-8"	5'-0"	6'-2"
36"	4"	3:1	1'-3"	5'-3"	2'-11"	6'-0"	8'-2"
42"	4 1/2"	3:1	1'-9"	5'-3"	2'-11"	6'-6"	8'-2"
48"	5"	3:1	2'-0"	6'-0"	2'-2"	7'-0"	8'-2"
54"	5 1/2"	3:1	2'-4"	6'-6"	1'-10"	7'-6"	8'-4"
60"	6"	3:1	2'-10"	6'-6"	1'-10"	8'-0"	8'-4"
66"	6 1/2"	3:1	3'-4"	6'-6"	1'-10"	8'-6"	8'-4"
72"	7"	3:1	3'-10"	6'-6"	1'-10"	9'-0"	8'-4"

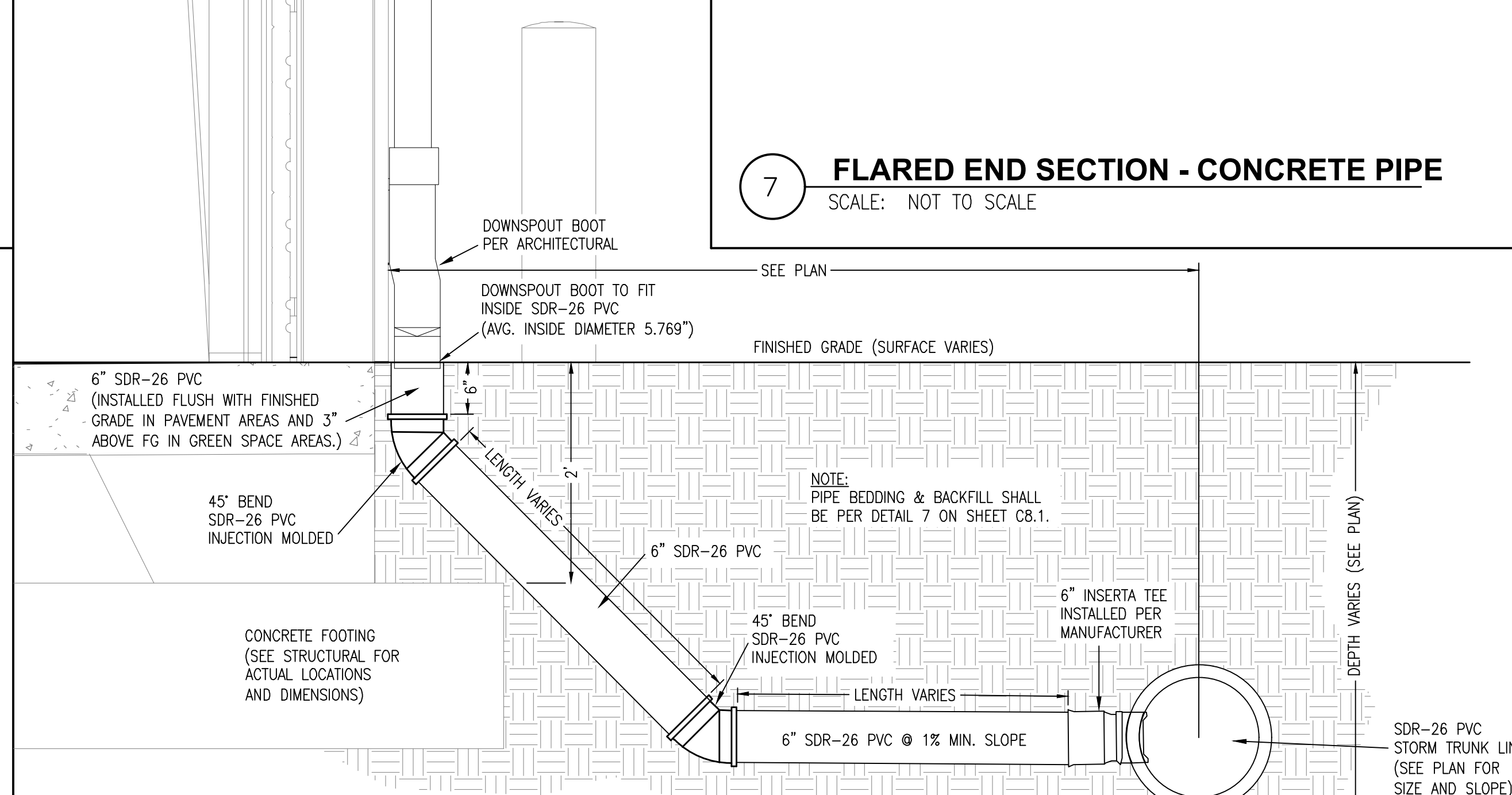
NOTE: SEE GENERAL NOTE 2.

**GENERAL NOTES:**

1. REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF REINFORCED CONCRETE PIPE OF LIKE DIAMETER PER AASHTO M 170, TABLE 2, WALL B.
2. LENGTH (L) OF A BELL-END OPTION MAY VARY BY A NOMINAL EXTENSION ON THE BELL END.
3. ALL SIZES OF FLARED END SECTIONS FOR CIRCULAR CONCRETE PIPE MAY BE FURNISHED WITH EITHER BELL AND SPIGOT OR TONGUE AND GROOVE ENDS.

**7 FLARED END SECTION - CONCRETE PIPE**

SCALE: NOT TO SCALE



**6 DOWNSPOUT CONNECTION TO STORM**  
SCALE: NOT TO SCALE

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p 601.352.5411

161 Lameuse Street  
Suite 201  
Biloxi, MS 39530  
p 228.374.1409

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Project No 17003  
Date 3 Nov 2017  
Drawn JB  
Checked JJ  
Revisions Rev Date

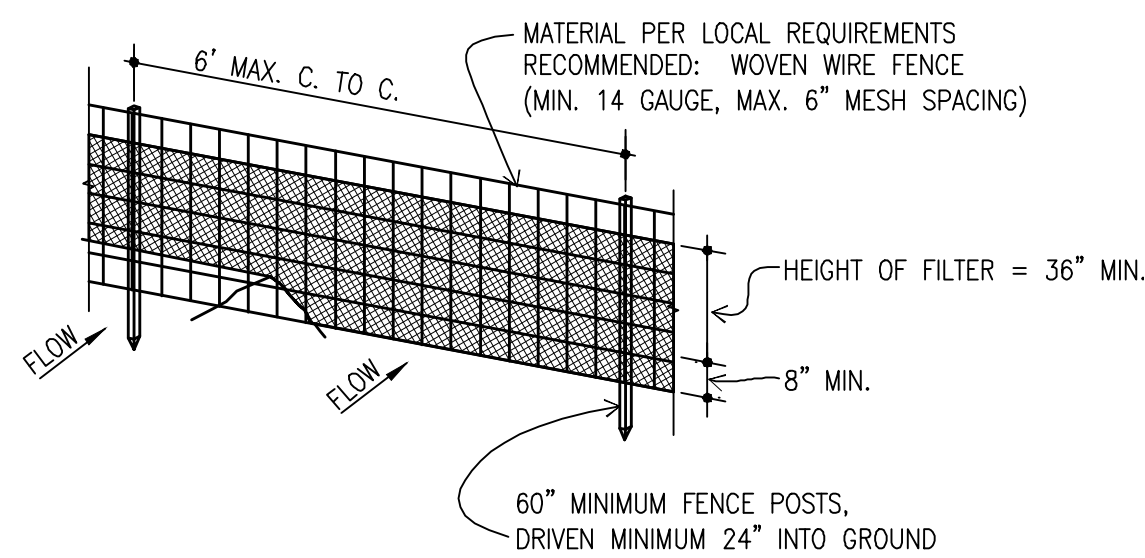
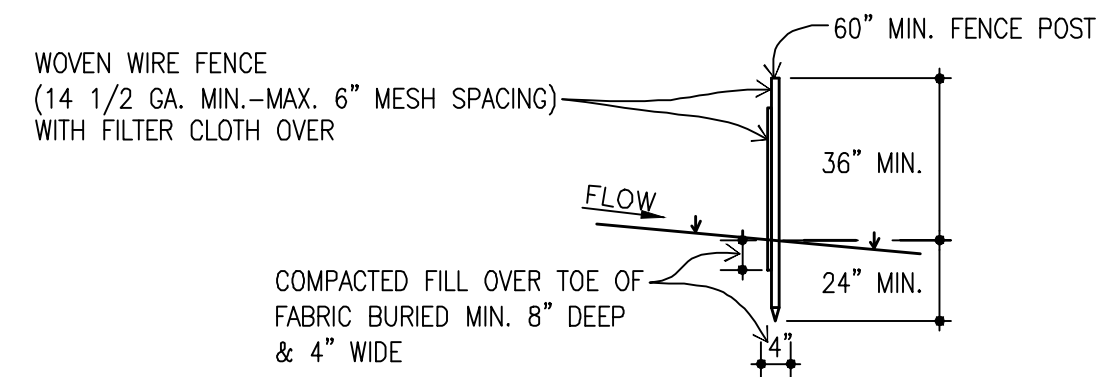


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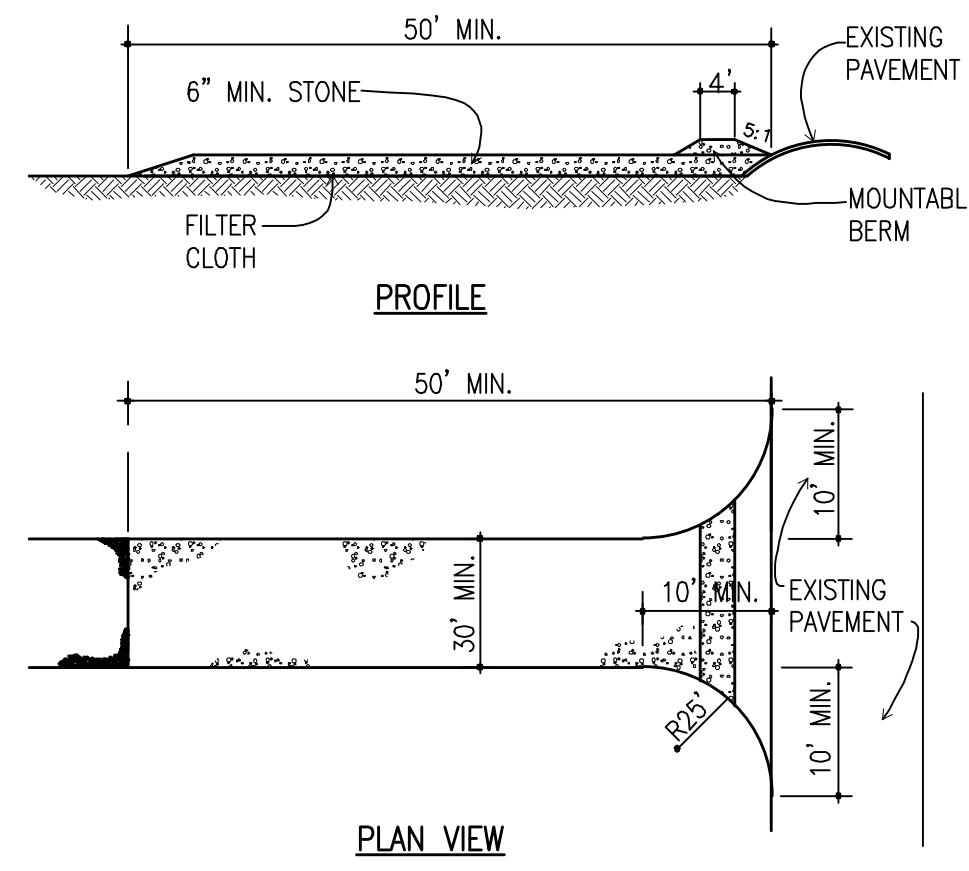


**CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**

- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
  - FILTER CLOTH TO BE FASTENED SECURELY TO SILT FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
  - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY (6) INCHES AND FOLDED.
  - LOCATE POSTS DOWNSLOPE OF FABRIC FOR FENCE SUPPORT.
  - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER "T" OR "U" TYPE  
 POSTS: LOCATED MAXIMUM 6' O. C.  
 FENCE: PER LOCAL REQUIREMENTS OR WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING  
 FILTER CLOTH: FILTER X, MIRAFI 100X, STABI-LINKA T140N OR APPROVED EQUAL.  
 PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.
6. INDICATED ON EROSION CONTROL PLANS AS " —SF— "



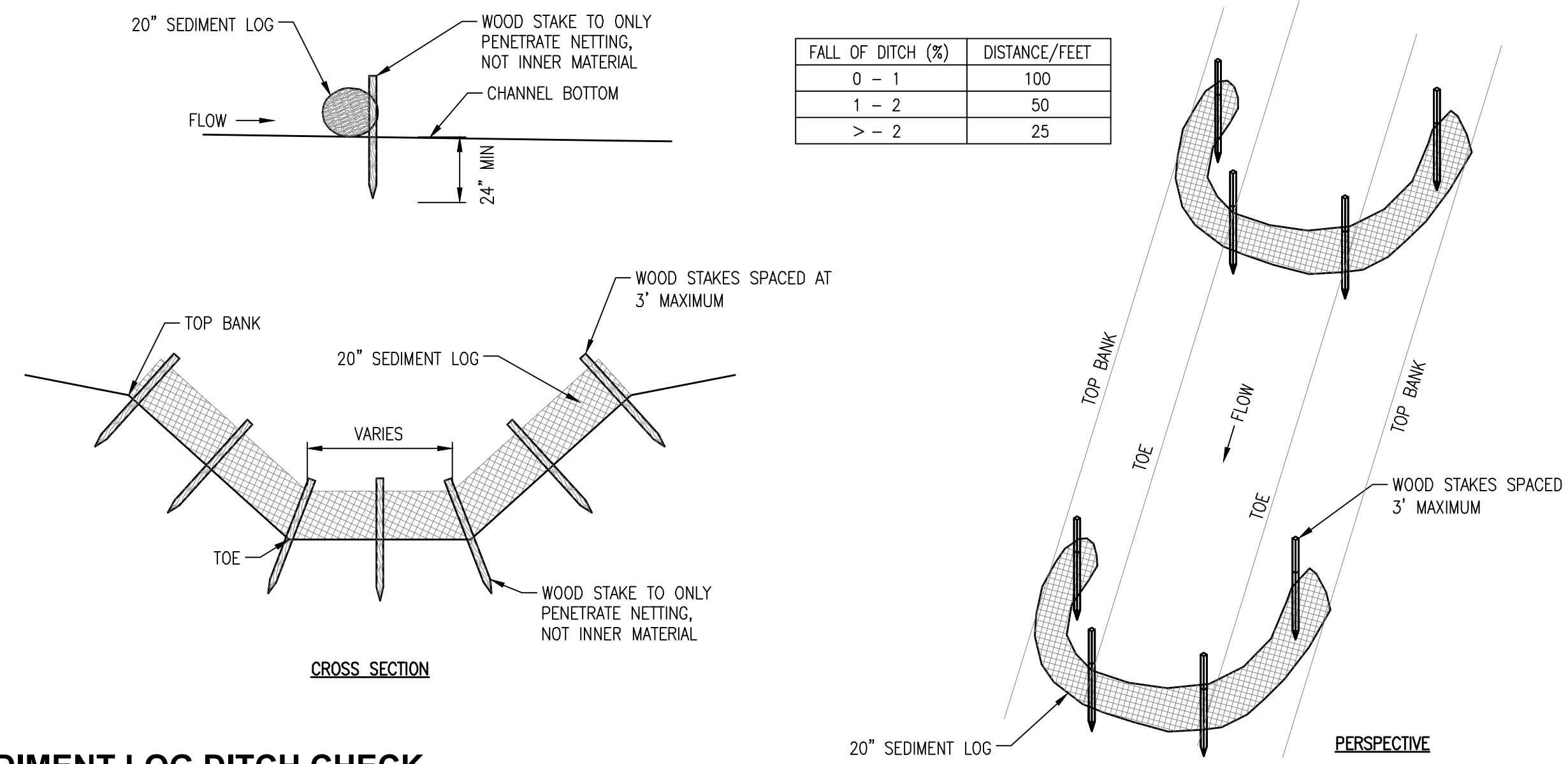
**1 SILT FENCE EROSION PROTECTION**  
 SCALE: NOT TO SCALE



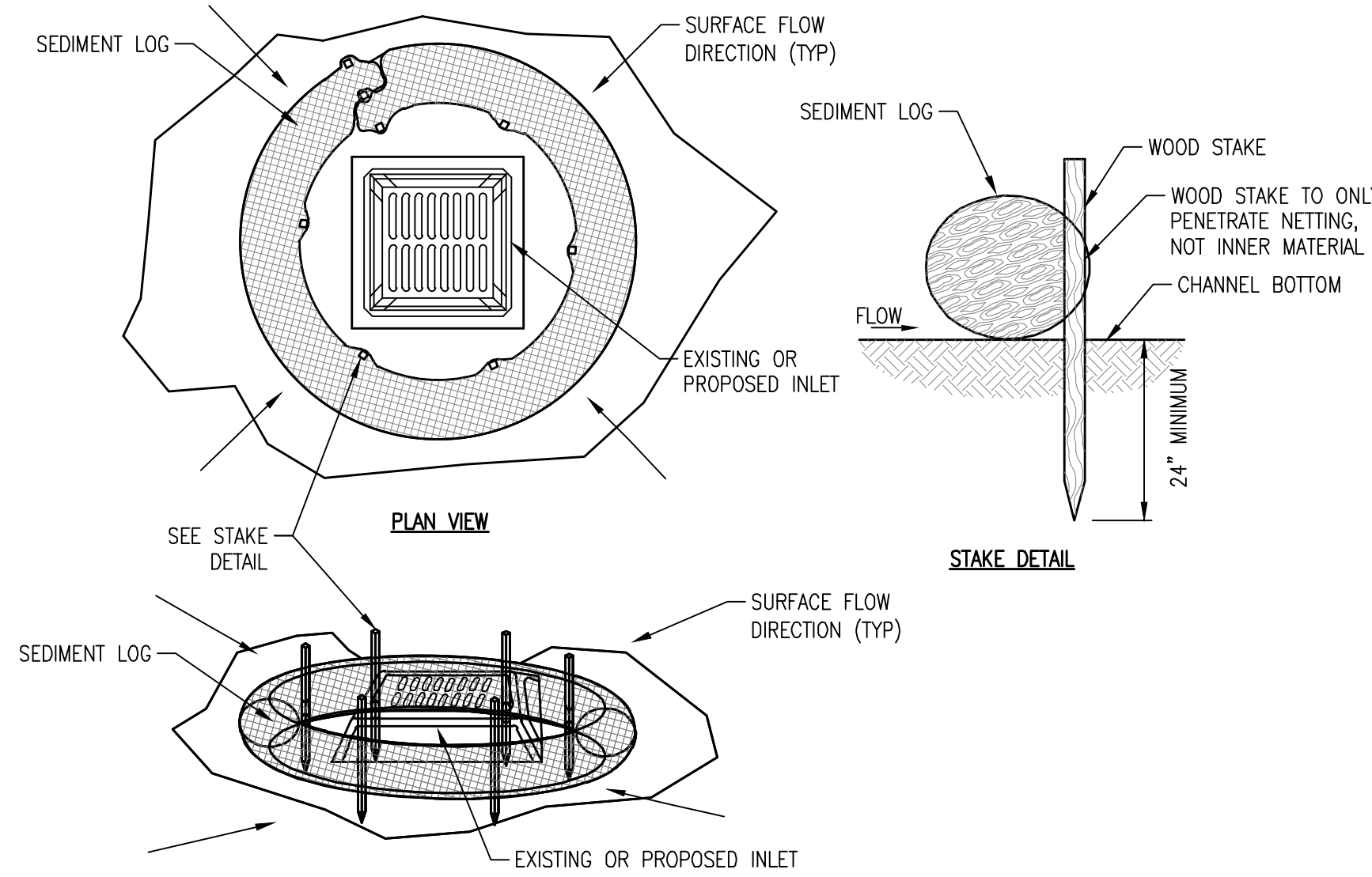
**STABILIZED CONSTRUCTION EXIT**

- STONE SIZE - USE #2 STONE, OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
- LENGTH - AS REQUIRED, BUT NOT LESS THAN 50 FEET.
- DEPTH - NOT LESS THAN SIX (6) INCHES.
- WIDTH - THIRTY (30) FOOT MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
- FILTER CLOTH - WILL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
- SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
- MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.
- WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
- PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

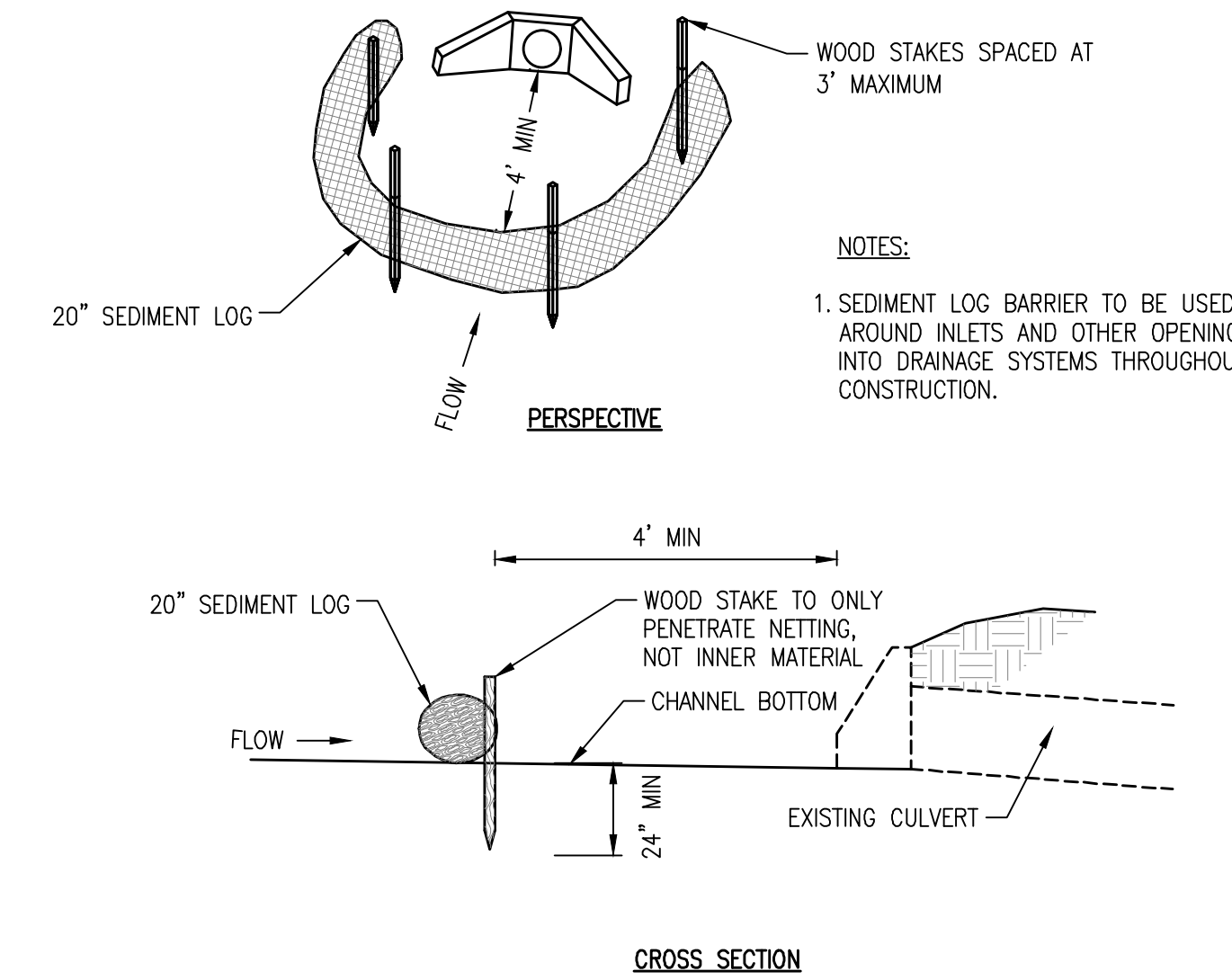
**2 TEMPORARY CONSTRUCTION ROAD**  
 SCALE: NOT TO SCALE



**3 SEDIMENT LOG DITCH CHECK**  
 SCALE: N.T.S.



**4 SEDIMENT LOG INLET PROTECTION**  
 SCALE: NOT TO SCALE



**5 SEDIMENT LOG CULVERT SEDIMENT BARRIER**  
 SCALE: N.T.S.

- ALL NEWLY CUT AND/OR FILLED AREAS LACKING ADEQUATE VEGETATION SHALL BE SEEDED, FERTILIZED, MULCHED AND/OR SODDED AS REQUIRED TO EFFECTIVELY PREVENT SOIL EROSION.
- SILT FENCES AND HAY BALES SHALL BE USED AS SHOWN AND AS DIRECTED BY THE ENGINEER TO CONTROL SOIL EROSION.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION CONTROL DURING CONSTRUCTION BY THE PLACEMENT OF SILT FENCES AND/OR HAY BALES WHERE NECESSARY TO PREVENT DOWNSTREAM SILTATION OF ANY DITCHES, PIPES, DRAINAGE STRUCTURES, OR ADJACENT PROPERTIES. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION CONTROL AS NEEDED OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT FOR ALL EROSION CONTROL DURING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES AND REPORTING ANY MAINTENANCE AS REQUIRED BY THE STATE OF MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ) OFFICE OF POLLUTION CONTROL (OPC) STORM WATER CONSTRUCTION GENERAL PERMIT DURING CONSTRUCTION ACTIVITIES.
- PROVISIONS SHALL BE MADE TO PROTECT DOWNSTREAM WATERCOURSES (I.E., STORM SEWER SYSTEMS, DITCHES, WETLANDS, ETC.) FROM SEDIMENT RUNOFF DEVELOPED FROM THE CONSTRUCTION PROCESS. PROVISIONS INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURAL CONTROLS SUCH AS SILT FENCING, GEOTEXTILE FABRIC PROTECTION OF STORM SEWERS, HAY BALES, DIKES AND SANDBAG BERMS; AND/OR VEGETATION CONTROLS SUCH AS SEEDING OR EXISTING VEGETATIVE BUFFER STRIPS (MINIMUM 25 FEET WIDE).
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTATION CONTROLS AT LOCATIONS SHOWN ON PLANS.
- CONTRACTOR SHALL PERFORM DAILY STREET CLEANING ON ROADS AND STREETS ADJACENT TO THE PROJECT WHICH ARE USED AS ACCESS ROUTES FOR CONSTRUCTION TRAFFIC IF DIRT AND MUD IS NOT ADEQUATELY REMOVED FROM VEHICLES AT THE STABILIZED CONSTRUCTION EXITS.
- LOCATE FUEL/MATERIAL STORAGE AREAS AWAY FROM STORMWATER CONVEYANCE SYSTEMS. USE A MINIMUM 60 MIL POLYETHYLENE LINER UNDER ABOVE GROUND STORAGE TANKS. USE 2 FOOT HIGH BERMS AROUND FUEL STORAGE AREAS.
- CONTRACTOR WILL ADVISE OWNER IMMEDIATELY, VERBALLY, AND IN WRITING, OF ANY FUEL SPILLS ONTO THE PROJECT/CONSTRUCTION AREA AND THE ACTIONS TAKEN TO REMEDY THE PROBLEM.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL ENVIRONMENTAL LAWS.
- CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF FUELS, MATERIALS AND CONTAMINATED EXCAVATIONS IN A LEGALLY APPROVED MANNER.
- CONTRACTOR SHALL INSPECT ALL STRUCTURAL CONTROLS WITHIN 24 HOURS AFTER ANY STORM EVENT THAT MEETS OR EXCEEDS 0.5 INCHES OF RAINFALL IN A 24 HOUR PERIOD. DURING PROLONGED RAINFALL EVENTS, CONTRACTOR SHALL INSPECT STRUCTURAL CONTROLS ON A DAILY BASIS. AT A MINIMUM, STRUCTURAL CONTROLS SHOULD BE INSPECTED ONCE EVERY 14 CALENDAR DAYS. A QUALIFIED REPRESENTATIVE OF THE CONTRACTOR, AS APPROVED BY THE OWNER, SHALL PROVIDE THESE INSPECTIONS. SHOULD CONTROLS BECOME INEFFECTIVE, NECESSARY REPAIRS SHALL BE PERFORMED TO RETURN THE INTEGRITY OF THE STRUCTURAL CONTROLS. REMOVE ALL SEDIMENT IF IT ACCUMULATES TO 1/3 THE HEIGHT OF THE SILT FENCE.
- CONTRACTOR SHALL MAINTAIN, REPAIR AND/OR REPLACE DAMAGED EROSION AND SEDIMENTATION CONTROL SYSTEMS THROUGHOUT THE DURATION OF THE CONTRACT, NO SEPARATE PAY.
- CONTRACTOR WILL PROVIDE PROTECTED STORAGE AREAS FOR CHEMICALS, PAINTS, SOLVENTS, FERTILIZERS AND OTHER POTENTIALLY TOXIC MATERIALS.
- EQUIPMENT STAGING AREA TO BE DESIGNATED BY CONTRACTOR AND APPROVED BY OWNER PRIOR TO CONSTRUCTION.
- AT COMPLETION OF THE CONTRACT, OWNER AND/OR OWNER'S REPRESENTATIVE WITH THE CONTRACTOR SHALL EXAMINE EROSION AND SEDIMENTATION CONTROL SYSTEMS BEFORE RELIEVING CONTRACTOR OF HIS MAINTENANCE RESPONSIBILITIES.
- CONTRACTOR SHALL SOLID SOD DISTURBED AREAS IMMEDIATELY AFTER REACHING FINAL GRADE.

**6 EROSION CONTROL NOTES**  
 SCALE: NOT TO SCALE

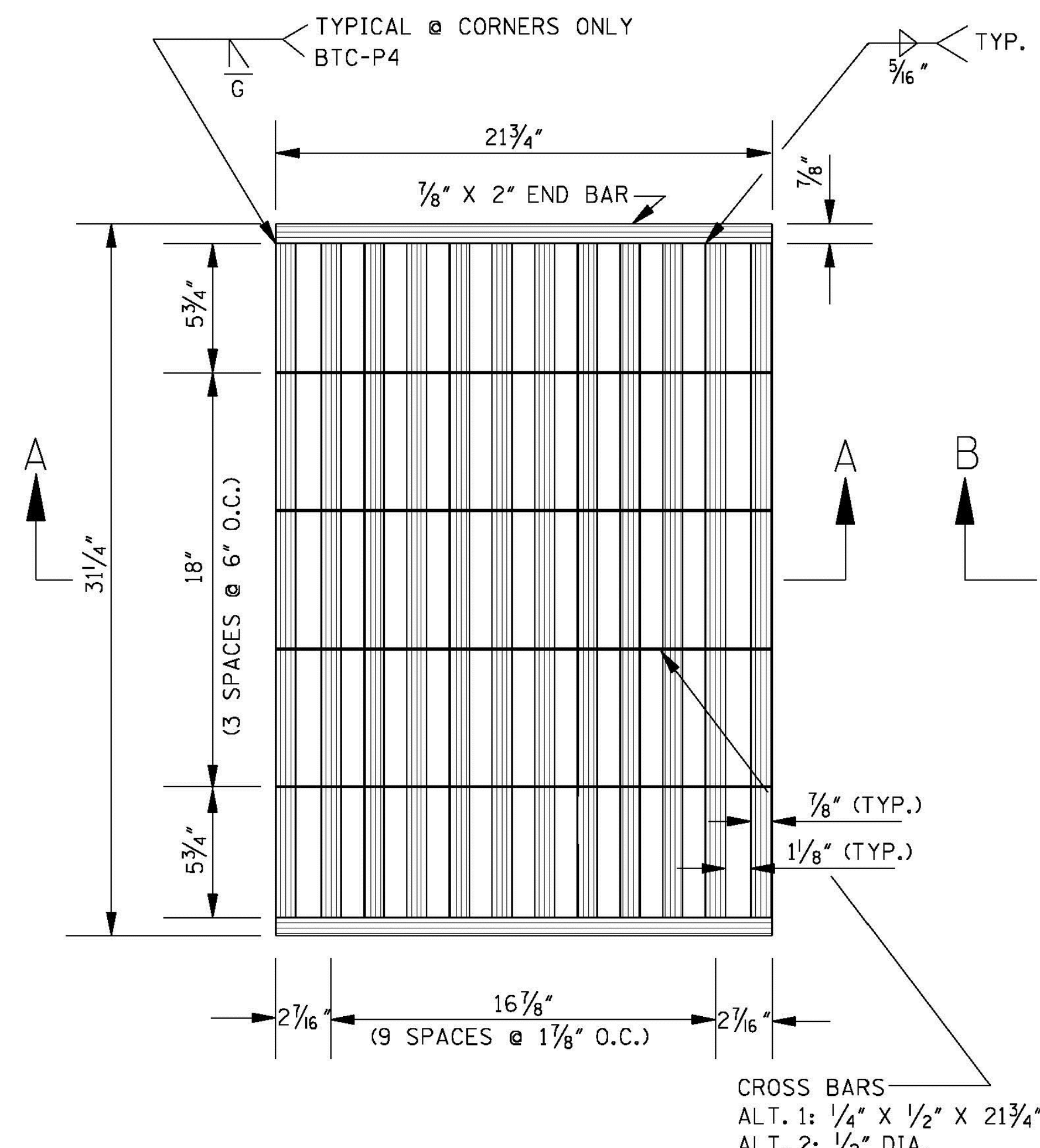


Project No	17003
Date	3 Nov 2017
Drawn	JB
Checked	JJ
Revisions	Rev Date



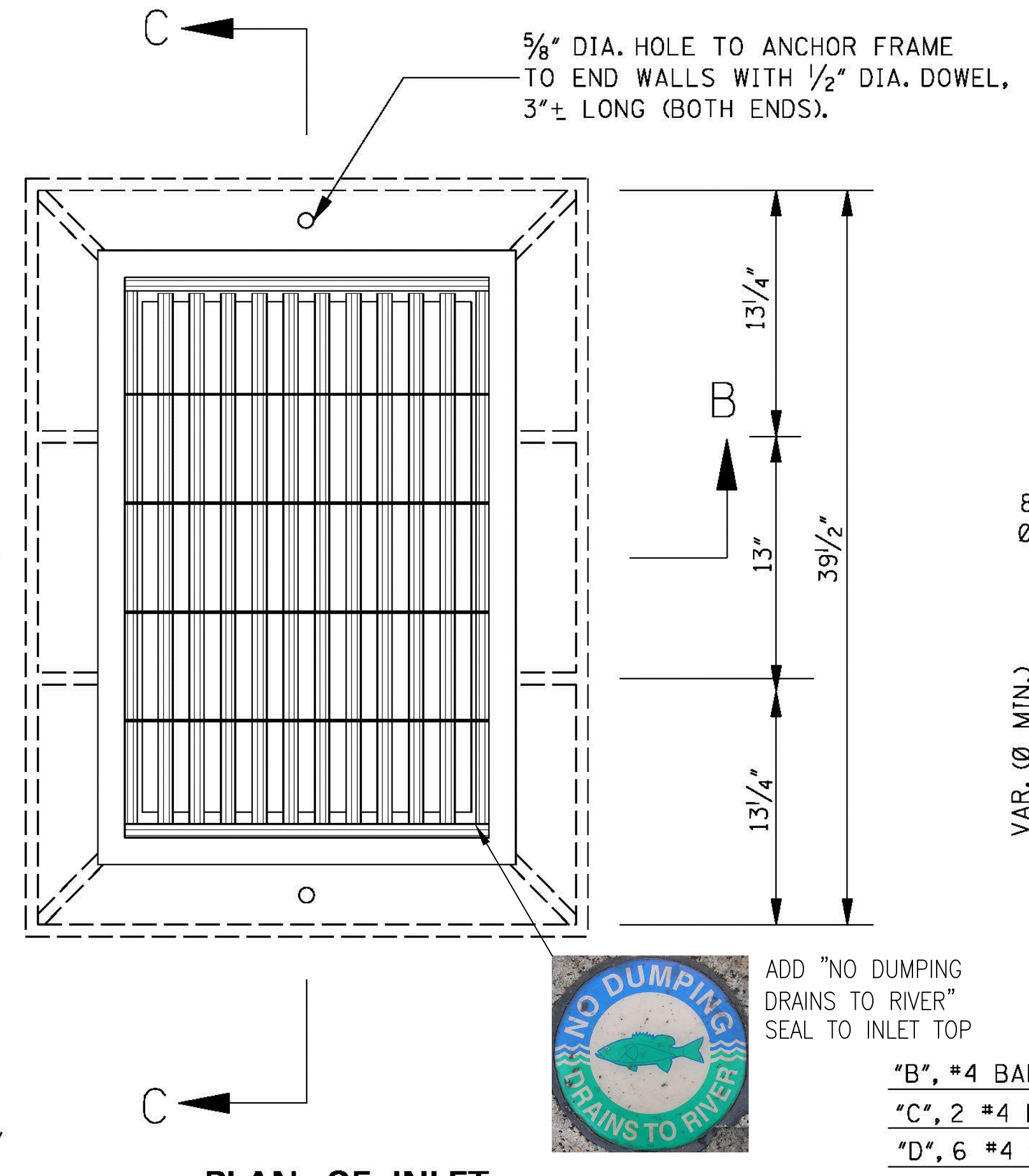
Pickering Firm, Inc.  
 Facility Design • Civil Engineering • Surveying •  
 Transportation • Natural / Water Resources  
 2001 Airport Road, Suite 201  
 Flowood, MS 38932  
 601.956.3663



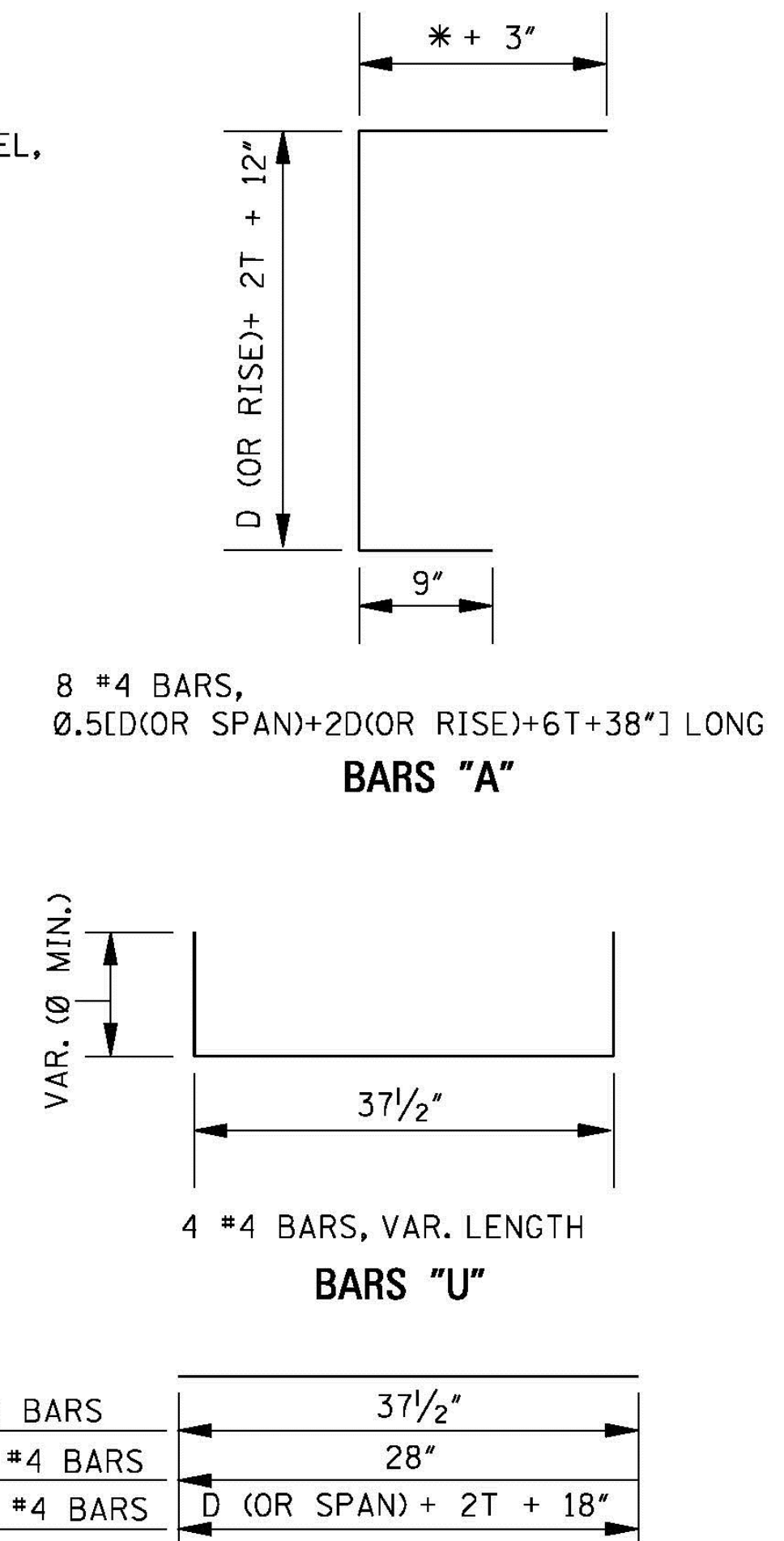


**PLAN OF GRATE NO.1**

NOTE: FOR OTHER GRATE DETAILS SEE SHEET IG-2.



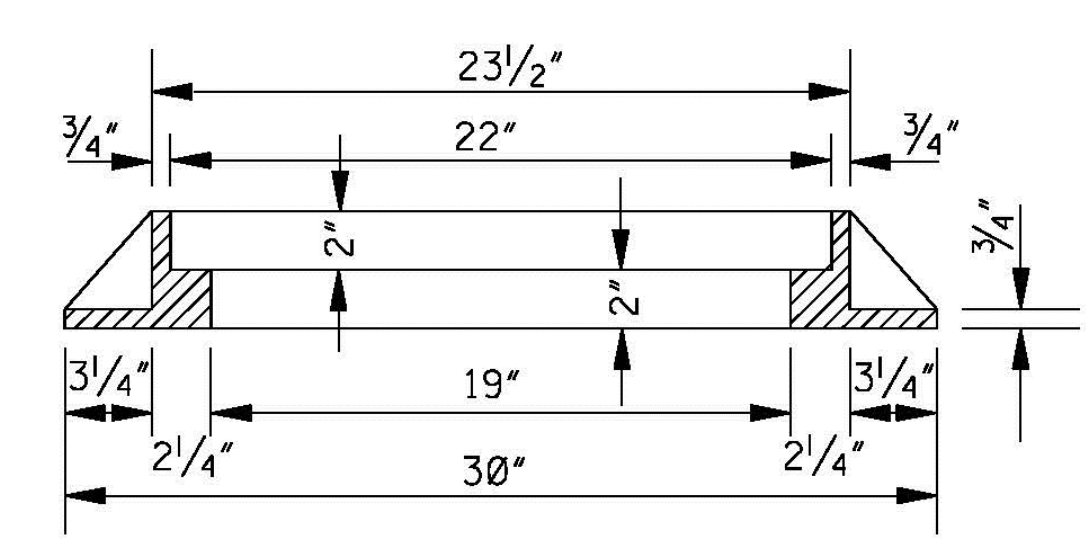
**PLAN OF INLET**



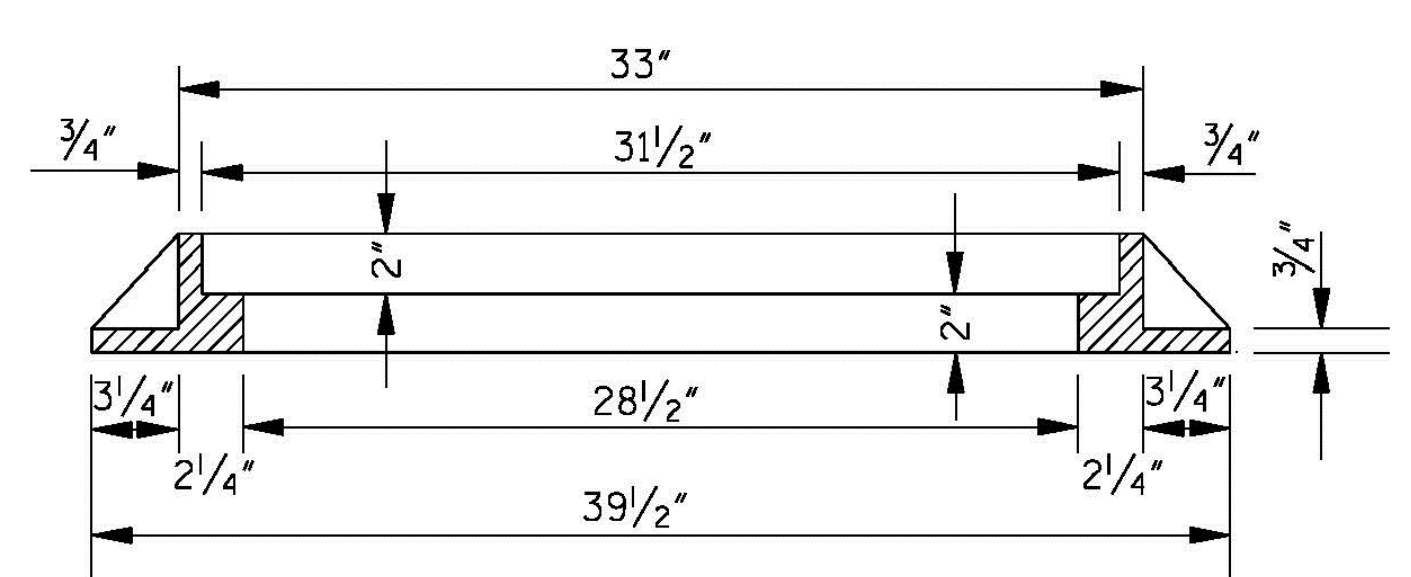
**BAR DETAILS**

PIPE SIZE	MIN. DEPTH TO F.L.	MIN. DEPTH INLET		PIPE OPENING DEDUCTION (yd <sup>3</sup> )	T	BARS/SIZES						
		CONC. (yd <sup>3</sup> )	STEEL (lbs)			"A"		"B"		"C"	"D"	"U"
						NO. #4	LGTH.	NO. #4	LGTH.	NO. #4	LGTH.	NO. #4
18"	2.792'	0.869	76	0.053	2 1/2"	8 @ 4'-5 1/2"	12 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 3'-5"	4 @ 3'-9 1/2"		
24"	3.334'	1.117	87	0.091	3"	8 @ 5'-4"	14 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 4'-0"	4 @ 3'-9 1/2"		
30"	3.875'	1.385	94	0.138	3 1/2"	8 @ 6'-2 1/2"	14 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 4'-7"	4 @ 3'-9 1/2"		
36"	4.417'	1.671	105	0.196	4"	8 @ 7'-1"	16 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 5'-2"	4 @ 3'-9 1/2"		
42"	4.959'	1.978	116	0.263	4 1/2"	8 @ 7'-11 1/2"	18 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 5'-9"	4 @ 3'-9 1/2"		
48"	5.500'	2.305	123	0.340	5"	8 @ 8'-10"	18 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 6'-4"	4 @ 3'-9 1/2"		
54"	6.042'	2.650	135	0.427	5 1/2"	8 @ 9'-8 1/2"	20 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 6'-11"	4 @ 3'-9 1/2"		
60"	6.583'	3.016	146	0.524	6"	8 @ 10'-7"	22 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 7'-6"	4 @ 3'-9 1/2"		
66"	7.125'	3.402	153	0.630	6 1/2"	8 @ 11'-5 1/2"	22 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 8'-1"	4 @ 3'-9 1/2"		
72"	7.667'	3.806	164	0.747	7"	8 @ 12'-4"	24 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 8'-8"	4 @ 3'-9 1/2"		
22" X 13"	2.417'	0.855	76	0.053	2 1/2"	8 @ 4'-3"	12 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 3'-9"	4 @ 3'-9 1/2"		
29" X 18"	2.833'	1.085	83	0.087	3"	8 @ 5'-0 1/4"	12 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 4'-4 1/2"	4 @ 3'-9 1/2"		
36" X 23"	3.250'	1.358	94	0.129	3 1/2"	8 @ 5'-10"	14 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 5'-1"	4 @ 3'-9 1/2"		
44" X 27"	3.635'	1.631	101	0.185	4"	8 @ 6'-7 1/2"	14 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 5'-10"	4 @ 3'-9 1/2"		
51" X 31"	4.068'	1.942	113	0.245	4 1/2"	8 @ 7'-5 1/2"	16 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 6'-6"	4 @ 3'-9 1/2"		
58" X 36"	4.500'	2.269	120	0.318	5"	8 @ 8'-3"	16 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 7'-2 1/2"	4 @ 3'-9 1/2"		
65" X 40"	4.875'	2.575	130	0.394	5 1/2"	8 @ 9'-0"	18 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 7'-10"	4 @ 3'-9 1/2"		
73" X 45"	5.333'	2.966	139	0.489	6"	8 @ 9'-10 1/2"	18 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 8'-7"	4 @ 3'-9 1/2"		
88" X 54"	6.167'	3.765	156	0.688	7"	8 @ 11'-6"	20 @ 3'-1 1/2"	2 @ 2'-4"	6 @ 10'-0"	4 @ 3'-9 1/2"		

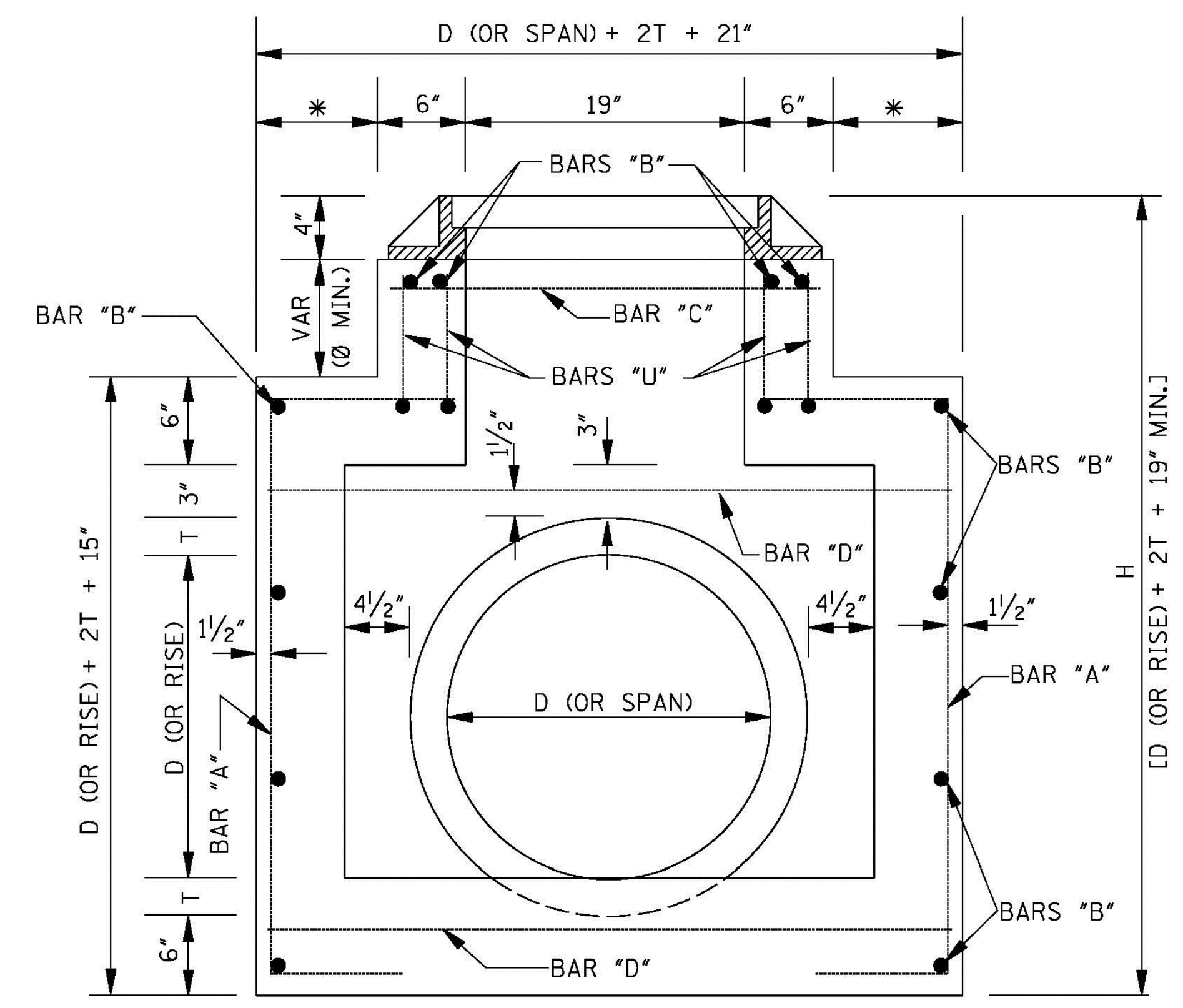
- NOTES:
- ONE (1) PIPE OPENING HAS BEEN DEDUCTED FROM THE STRUCTURE.
  - FOR EACH ADDITIONAL FOOT OF INLET HEIGHT, ADD 0.184 yd<sup>3</sup> CLASS "B" CONCRETE AND 17 lbs REINFORCING STEEL.
  - 4 BARS "B" AND 2 BARS "C" REQUIRED PER EACH ADDITIONAL FOOT OF INLET HEIGHT.
  - WEIGHT OF FRAME CASTING = 244 lbs.  
WEIGHT OF GRATE = SEE SHEET IG-2.



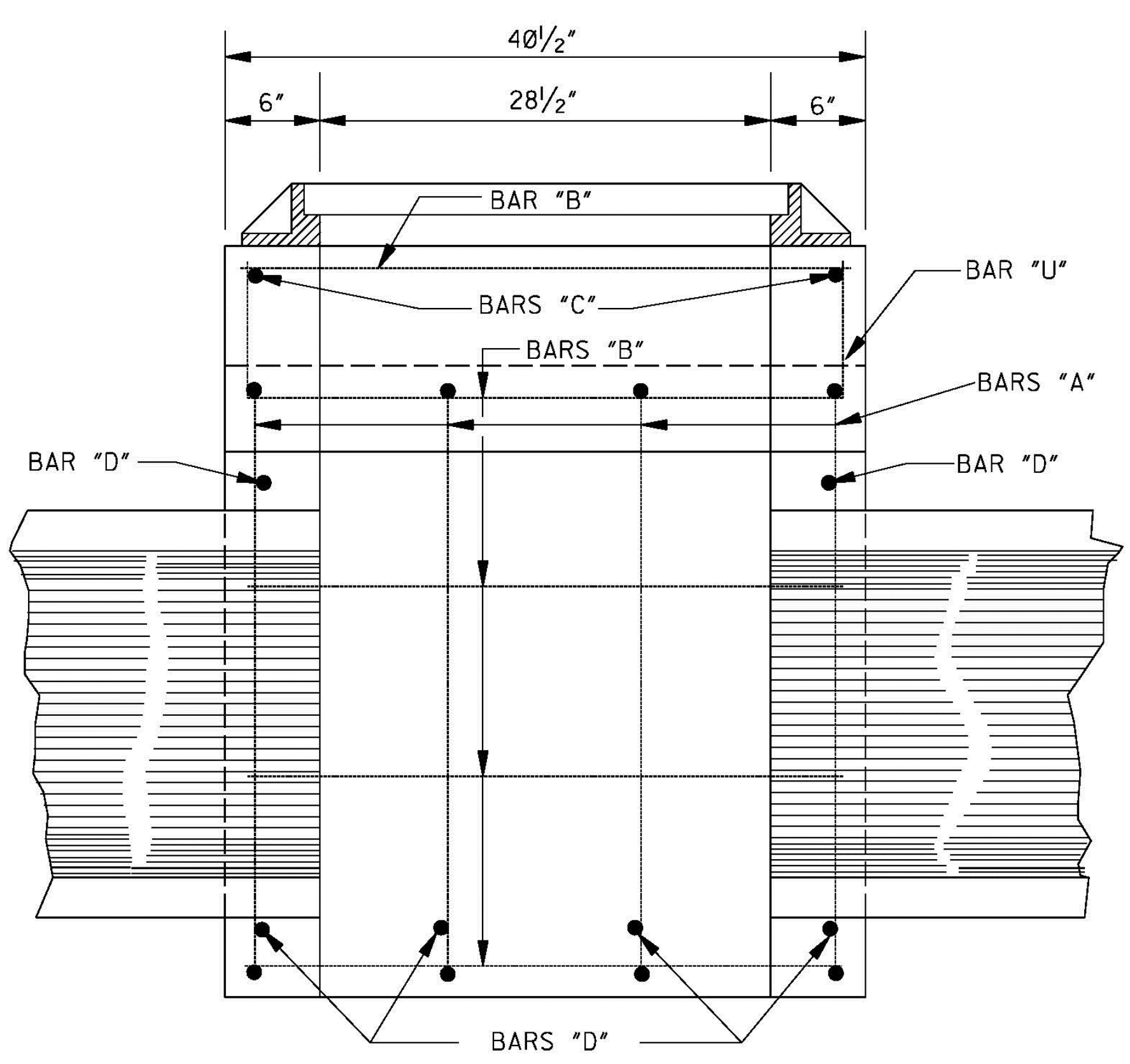
**SECTION B-B (FRAME)**



**SECTION C-C (FRAME)**



**SECTION B-B**



**SECTION C-C**

**GENERAL NOTES:**

- QUANTITIES SHOWN WILL BE THE BASIS OF PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE.
- CONCRETE SHALL BE CLASS "B" CONCRETE AND REINFORCING STEEL SHALL BE DEFORMED BARS.
- THE CONTRACTOR HAS THE OPTION TO PROVIDE GRATE NO. 1 OR GRATE NO. 2 AS SHOWN ON SHEET IG-2.
- FRAME TO BE GRAY IRON CASTING, (AASHTO M 105, CLASS 30).

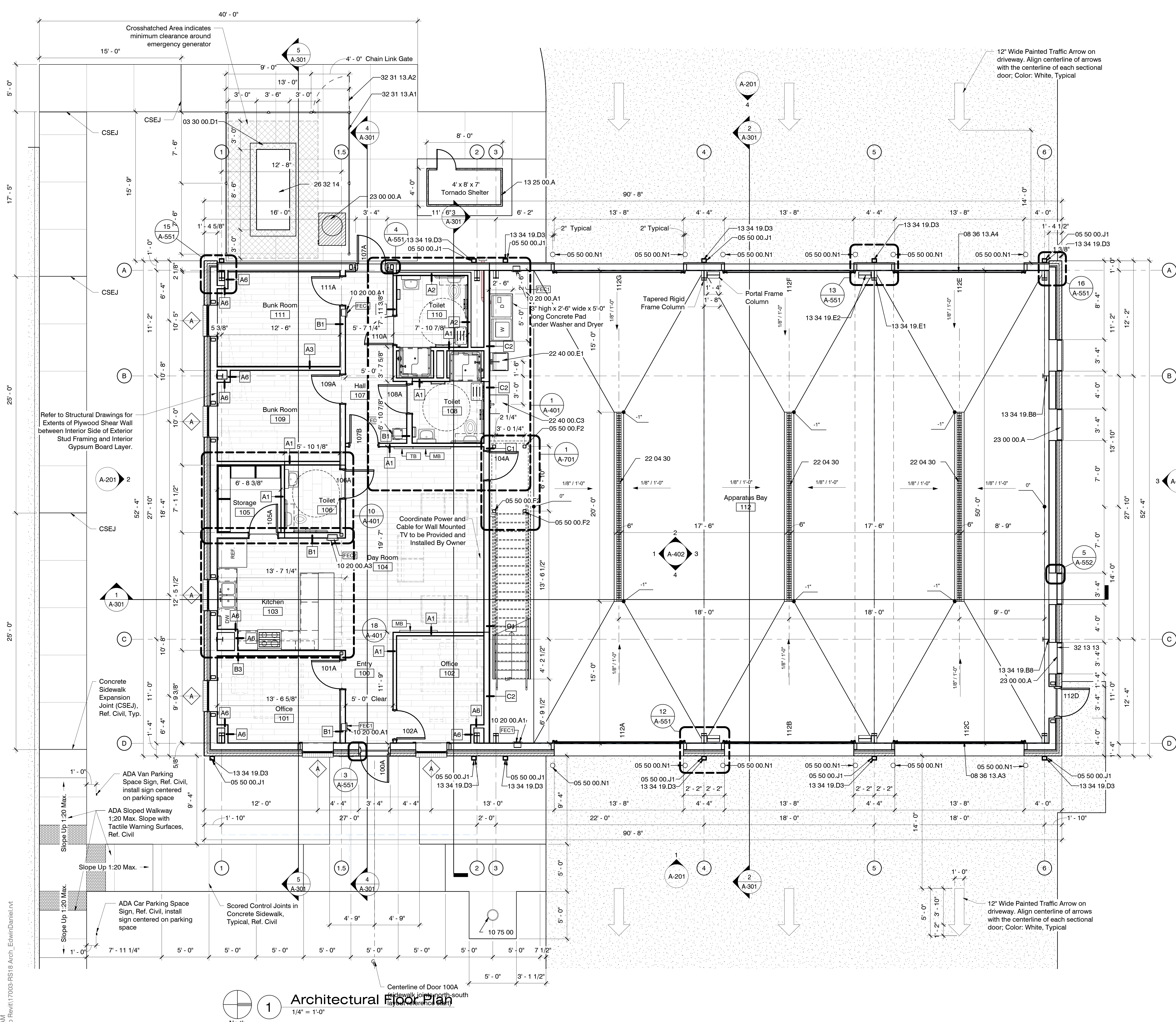
BY	MISSISSIPPI DEPARTMENT OF TRANSPORTATION ROADWAY DESIGN DIVISION STANDARD PLAN
REVISION	<b>STORM SEWER INLET TYPE SS-3</b>
DATE	ISSUE DATE: OCTOBER 1, 1998
WORKING NUMBER	SS-3
SHEET NUMBER	323











**1 Architectural Floor Plan**  
 1/4" = 1'-0"  
 North

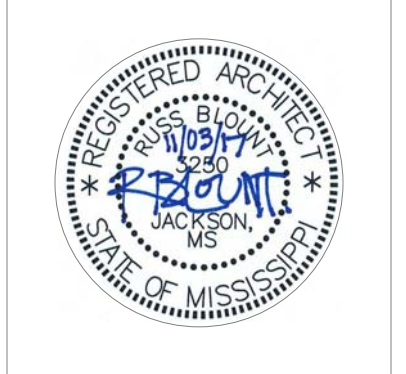
**General Plan Notes**

- All interior walls to be type "A1" UNO
- All furniture shown in plan is NIC.
- All door frames in metal stud walls to be located 4" off perpendicular walls (typ.) unless indicated otherwise. Provide min. clear of 12" on push side of door and 18" on pull side.
- Reference building elevations for exterior masonry brick veneer expansion joint locations.
- All downspouts to grade to terminate in cast iron boots with an integral clean-out to be connected to subsurface drainage. See Civil drawings.
- See enlarged floor plans for floor finish patterns.
- MB: 48" wide x 36" high markerboard
- TB: 24" wide x 36" high tackboard
- All dimensions are to interior finish face U.N.O.
- All Windows to Receive Horizontal Louver Blinds

**Sheet Keynote Legend**

- 03 30 00.D1 Reinforced Concrete Slab, Ref. Structural
- 05 50 00.F2 HSS 4" x 4" x 1/4", Painted
- 05 50 00.J1 Cast Iron Downspout Boot with Cleanout
- 05 50 00.N1 6" Diameter Steel Pipe Bollard, Concrete Filled
- 08 36 13.A3 Aluminum Sectional Door
- 08 36 13.A4 Steel Sectional Door
- 10 20 00.A1 Fire Extinguisher FE1
- 10 20 00.A3 Fire Extinguisher FE2
- 10 75 00 Flagpoles
- 13 25 00.A Panelized Above Ground Storm Shelter
- 13 34 19.B8 Endwall Column
- 13 34 19.D3 Downspout
- 13 34 19.E1 Rigid Frame
- 13 34 19.E2 Portal Frame Bracing
- 22 04 30 Plumbing Specialties, Trench Drain
- 22 40 00.C3 Mop Sink
- 22 40 00.E1 Utility Tub
- 23 00 00.A HVAC Equipment, Ref. Mech.
- 26 32 14 Generator, Ref. Electrical
- 32 13 13 Concrete Paving
- 32 31 13.A1 Chain Link Fencing
- 32 31 13.A2 Chain Link Gate

**DALE PARTNERS**  
 Architecture  
 Interiors  
 Planning  
 One Jackson Place  
 Suite 250  
 188 East Capitol Street  
 Jackson, MS 39201  
 p 601.352.5411  
 161 Lameuse Street  
 Biloxi, MS 39530  
 p 228.374.1409  
 dalepartners.com



**Southwest Madison Fire Department**  
 Madison, Mississippi

Construction Documents

Project No	17003
Date	03 Nov 2017
Drawn	EDa
Checked	RBI
Revisions	Rev Date

**A-101**  
 Floor Plan Level 1

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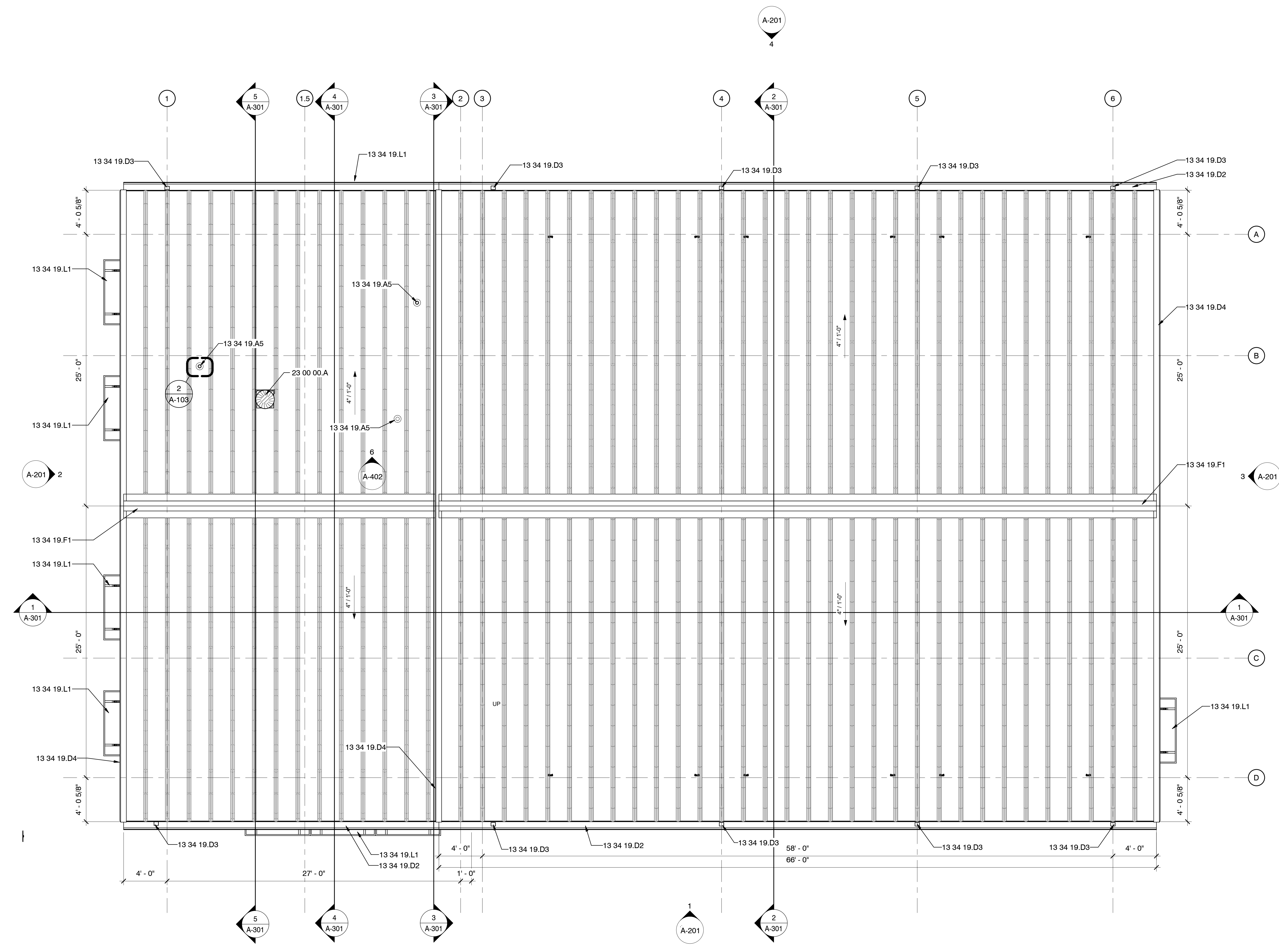






**General Roof Notes**

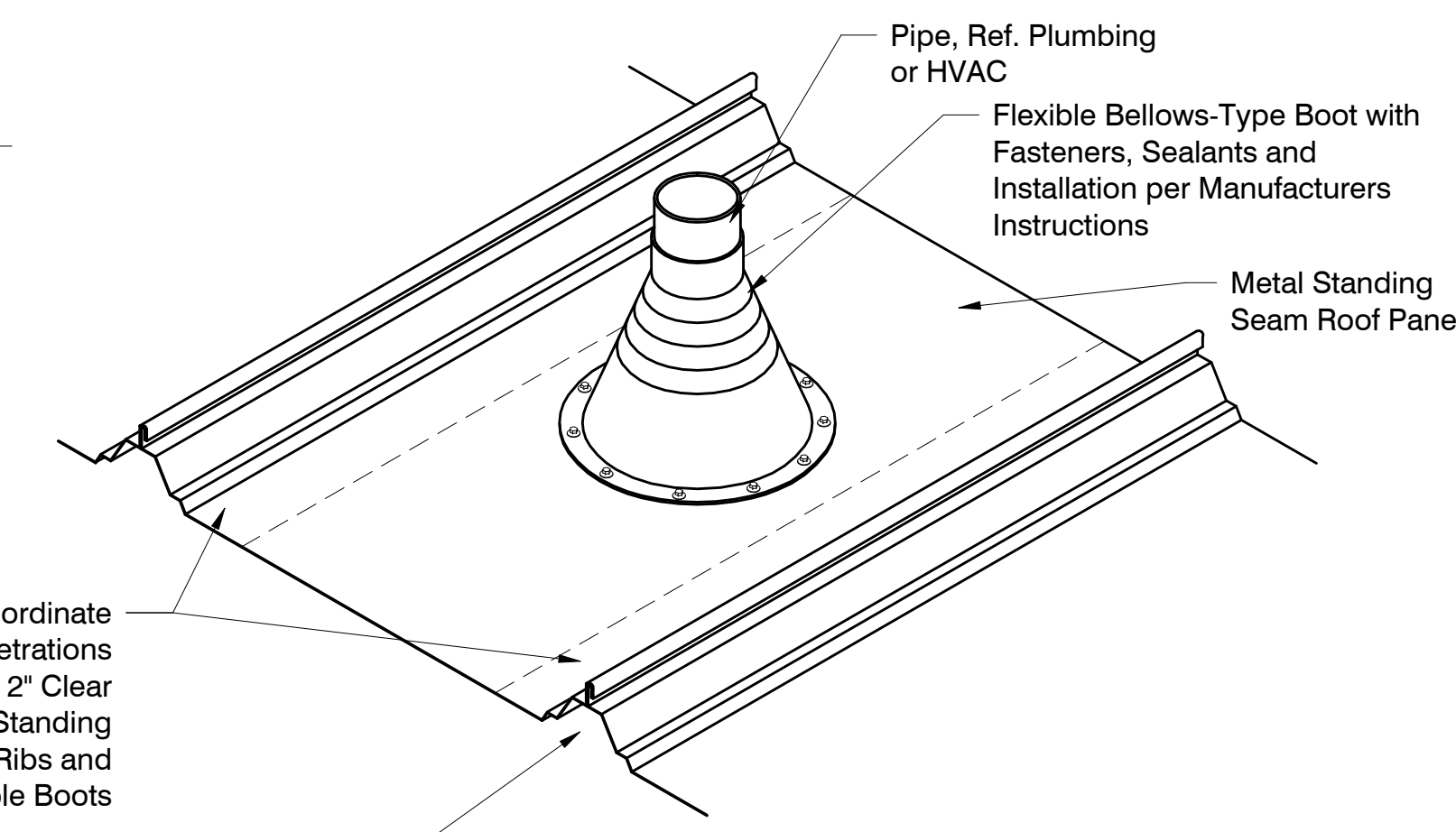
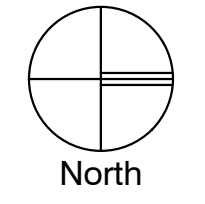
1. All downsputs to grade to terminate in cast iron boots with integral clean-out to be connected to subsurface drainage. See Civil drawings.



**Sheet Keynote Legend**

- 13 34 19.A5 Dektite Flashing for Vent Thru Roof
- 13 34 19.D2 Gutter
- 13 34 19.D3 Downspout
- 13 34 19.D4 Rake Trim
- 13 34 19.F1 Ridge Cap
- 13 34 19.L1 PEMB Personnel Door (or Window) Canopy
- 23 00 00.A HVAC Equipment, Ref. Mech.

**1 Roof Plan**  
1/4" = 1'-0"



**2 Flexible Bellows-Type Boot at Pipe Penetration**  
3" = 1'-0"





General RCP Notes

- All exposed structural elements to be painted, unless noted otherwise

Sheet Keynote Legend

- 05 50 00.F2 HSS 4"x 4"x 1/4", Painted
- 08 36 13.A3 Aluminum Sectional Door
- 08 36 13.A4 Steel Sectional Door
- 13 34 19.A4 Metal Soffit Panel
- 13 34 19.D2 Gutter
- 13 34 19.D3 Downspout
- 13 34 19.D4 Rake Trim
- 13 34 19.E1 Rigid Frame
- 13 34 19.E2 Portal Frame Bracing
- 13 34 19.L1 PEMB Personnel Door (or Window) Canopy
- 23 00 00.A HVAC Equipment, Ref. Mech.
- 26 51 00.A Interior Lighting, Ref. Electrical
- 26 51 00.B Exterior Lighting, Ref. Electrical
- 26 51 00.C Exit Lighting, Ref. Electrical

Ceiling Symbols Legend

Ceiling Types

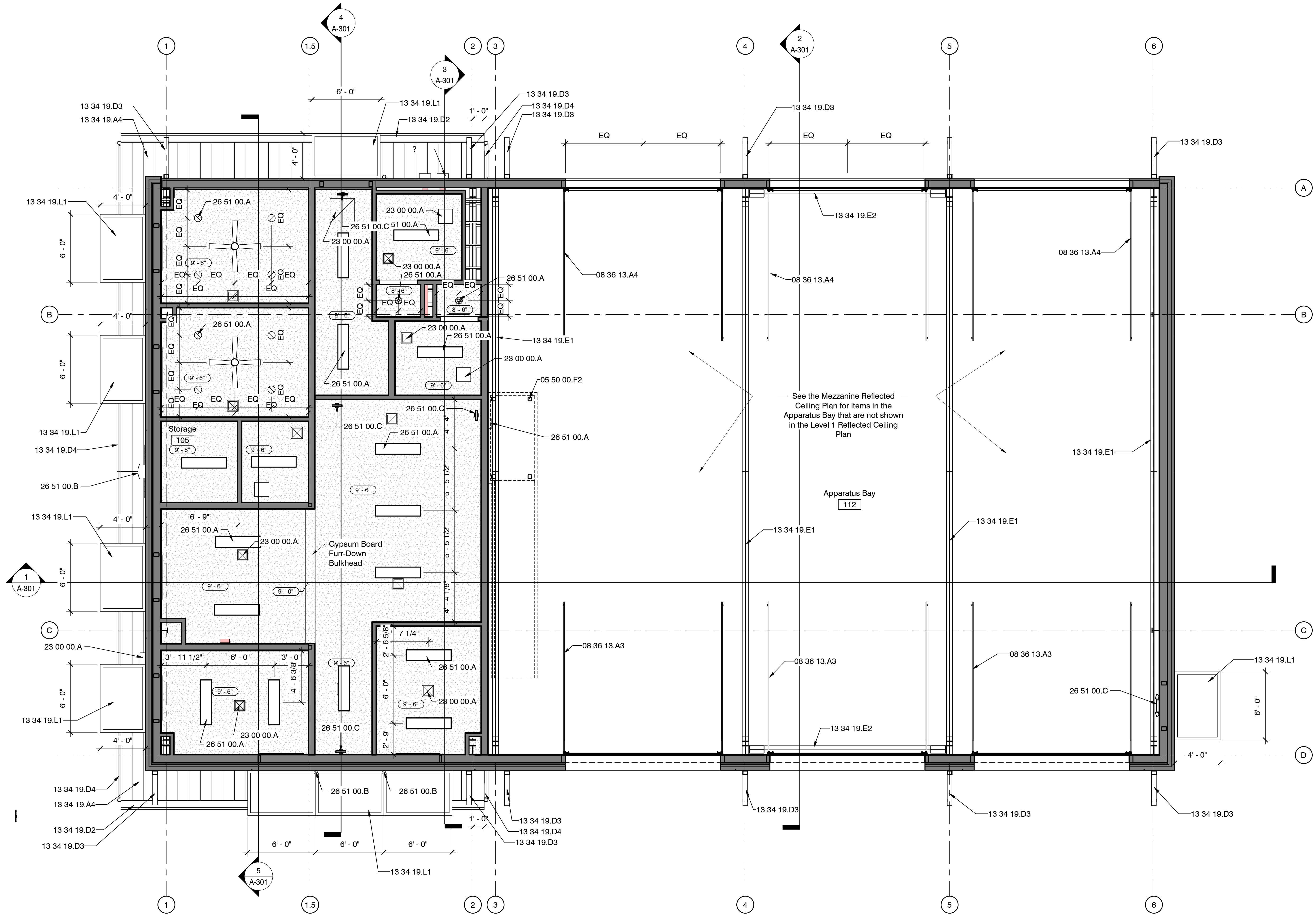
- Gypsum Board Ceiling
- Metal Soffit
- Open to Structure (OTS)  
All exposed structure to be painted typical unless noted otherwise (UNO)

HVAC

- HVAC Supply Grille
- HVAC Return Grille

Lighting and Electrical

- LED Surface-Mounted Fixture
- LED Surface Downlight Fixture
- LED Exterior Wall Mounted Fixture
- Ceiling Fan



**1** Reflected Ceiling Plan- Level 1  
1/4" = 1'-0"  
North

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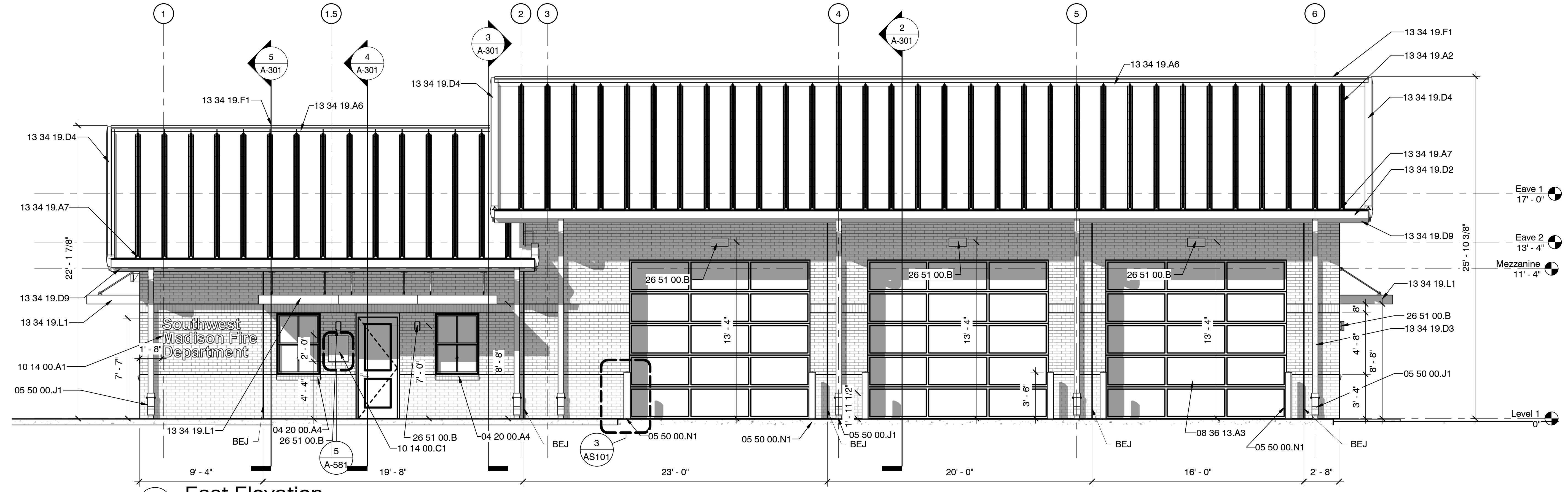




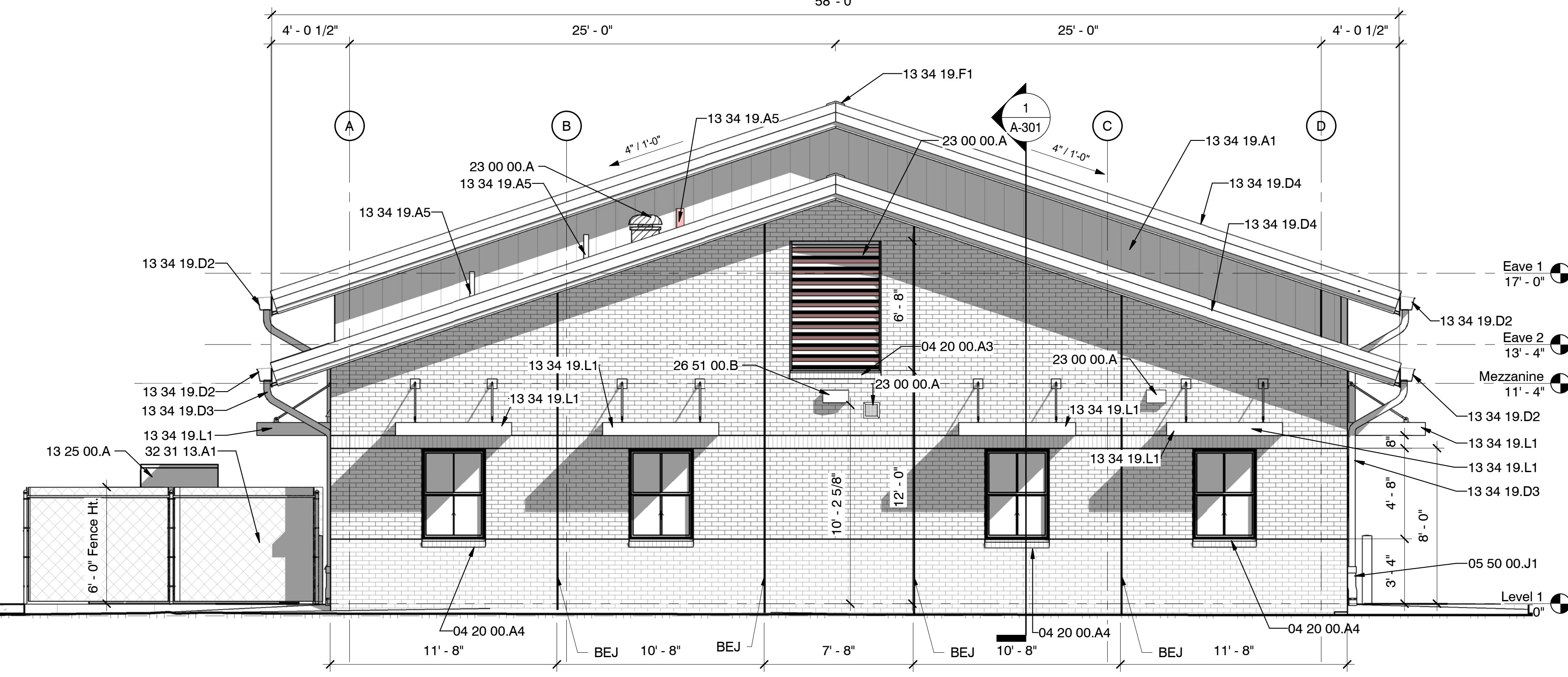


General Elevation Notes

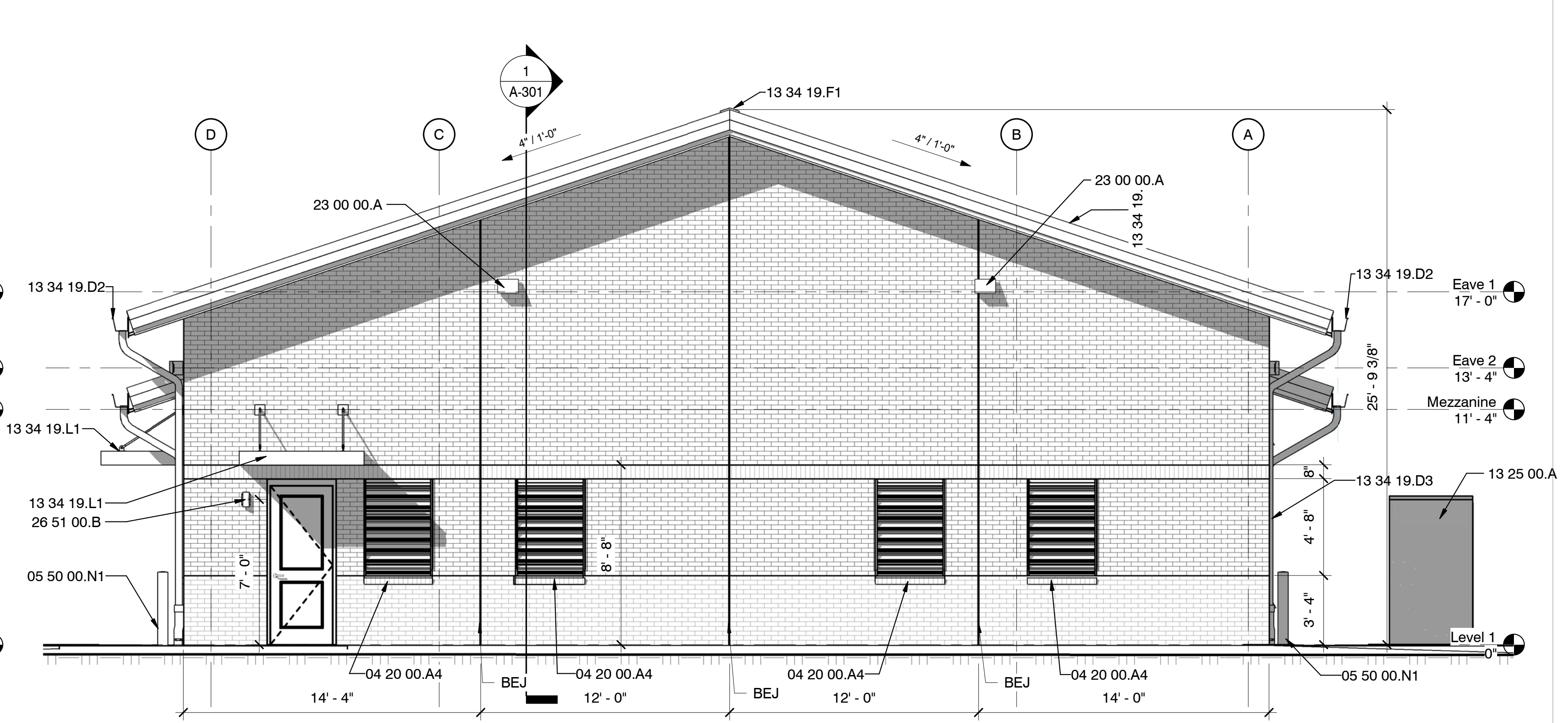
- Brick Expansion Joints (BEJ) in the veneer are to be located to the nearest veneer coursing.
- Brick Expansion Joint (BEJ) material shall match grout colors as selected by architect.
- All downspouts to grade to have cast metal boots and be connected to sub-surface storm drainage system to drain rain water away from the building. Refer to Civil Engineering drawings for sub-surface storm drain piping locations, routing and sizes.
- Masonry Veneer Brick Type Color 1 is to be used on all exterior wall surfaces where Veneer Brick is shown, noted or is otherwise indicated except where Brick Veneer Type Color 2 is assigned.
- Masonry Brick Veneer Type Color 2 is to be used at all other exterior wall areas not assigned to receive Masonry Brick Veneer Color 1.
  - From the base of the masonry brick veneer walls to 3'-4" AFF
  - At rowlock sills, Typical (except rowlock sill for louver in south wall gable)
  - At the soldier course band at 8'-0" AFF



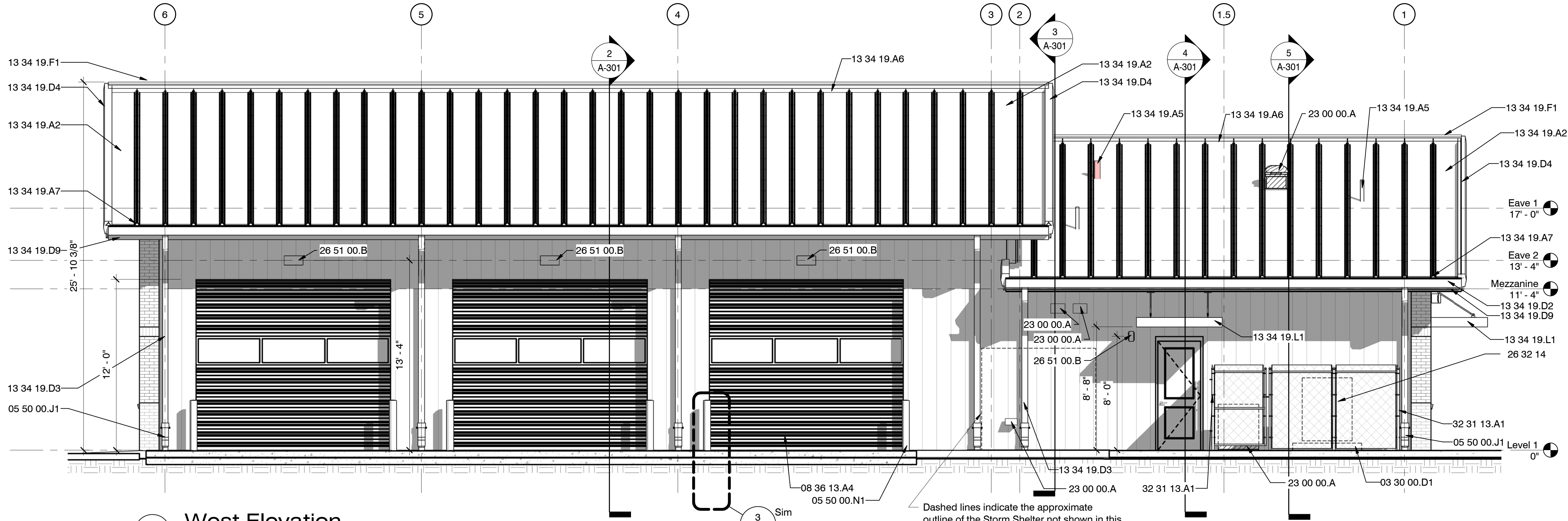
1 East Elevation  
1/4" = 1'-0"



2 South Elevation  
1/4" = 1'-0"



3 North Elevation  
1/4" = 1'-0"



4 West Elevation  
1/4" = 1'-0"

Sheet Keynote Legend

- 03 30 00.D1 Reinforced Concrete Slab, Ref. Structural
- 04 20 00.A3 Brick Sill Rowlock Type Color 1
- 04 20 00.A4 Brick Sill Rowlock Type Color 2
- 05 50 00.J1 Cast Iron Downspout Boot with Cleanout
- 05 50 00.N1 6" Diameter Steel Pipe Bollard, Concrete Filled
- 08 36 13.A3 Aluminum Sectional Door
- 08 36 13.A4 Steel Sectional Door
- 10 14 00.A1 Dimensional Metal Signage 10 Inch High Letters
- 10 14 00.C1 Bronze Plaque
- 13 25 00.A Panelized Above Ground Storm Shelter
- 13 34 19.A1 Metal Wall Panel
- 13 34 19.A2 Standing Seam Metal Roof System
- 13 34 19.A5 Deklite Flashing for Vent Thru Roof
- 13 34 19.A6 Painted Metal SSR Ridge Closure
- 13 34 19.A7 Painted Metal SSR Rib Closure
- 13 34 19.D2 Gutter
- 13 34 19.D3 Downspout
- 13 34 19.D4 Rake Trim
- 13 34 19.D9 Custom Eave Trim (Cover Eave Strut and Soffit)
- 13 34 19.F1 Ridge Cap
- 13 34 19.L1 PEMB Personnel Door (or Window) Canopy
- 23 00 00.A HVAC Equipment, Ref. Mech.
- 26 32 14 Generator, Ref. Electrical
- 26 51 00.B Exterior Lighting, Ref. Electrical
- 32 31 13.A1 Chain Link Fencing

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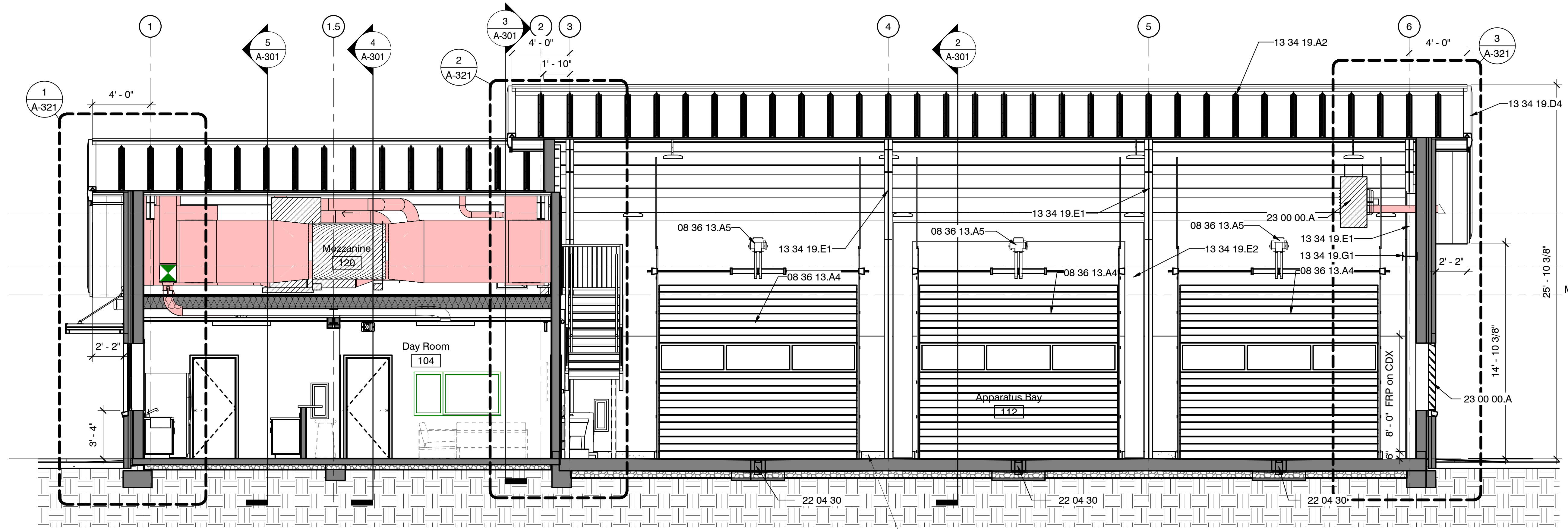


**General Section Notes**

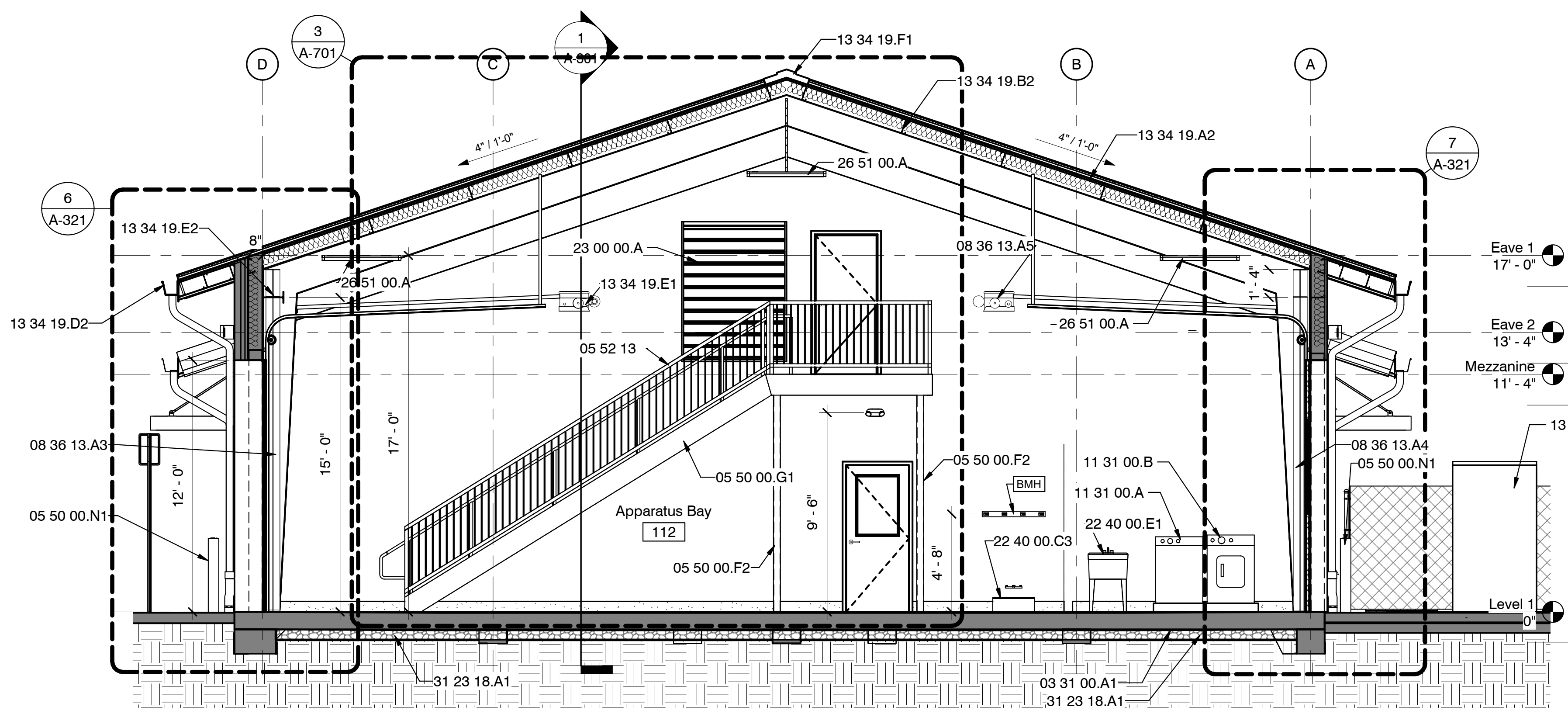
- Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
- Continuous air barrier to be provided at exterior building envelope. Air barrier joints and seams to be sealed at all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair ability of continuous air barrier to resist positive and negative pressure from wind or mechanical units.
- Wall cavity insulation at veneer brick clad walls (rigid board insulation) to be 1.5" minimum thick with a minimum R-7 unless noted otherwise.
- Wall insulation in exterior stud walls to be unfaced R19 Fiberglass Batts.
- Wall insulation with metal building girt wall framing and metal wall panels to be faced R19 fiberglass blanket as specified in Division 13
- Roof insulation to be R19 faced fiberglass blanket as specified in Division 13
- Provide and install continuous thru-wall flashing with weeps at 24" o.c. at the first horizontal joint above grade at the perimeter of the building where exterior cladding is brick veneer masonry.
- Grout solid all voids and cavities in walls below grade.
- All anchors, fasteners and attachment devices to be hot dipped galvanized steel unless otherwise noted or specified.
- See interior elevations sheets for descriptive interior information.

**Sheet Keynote Legend**

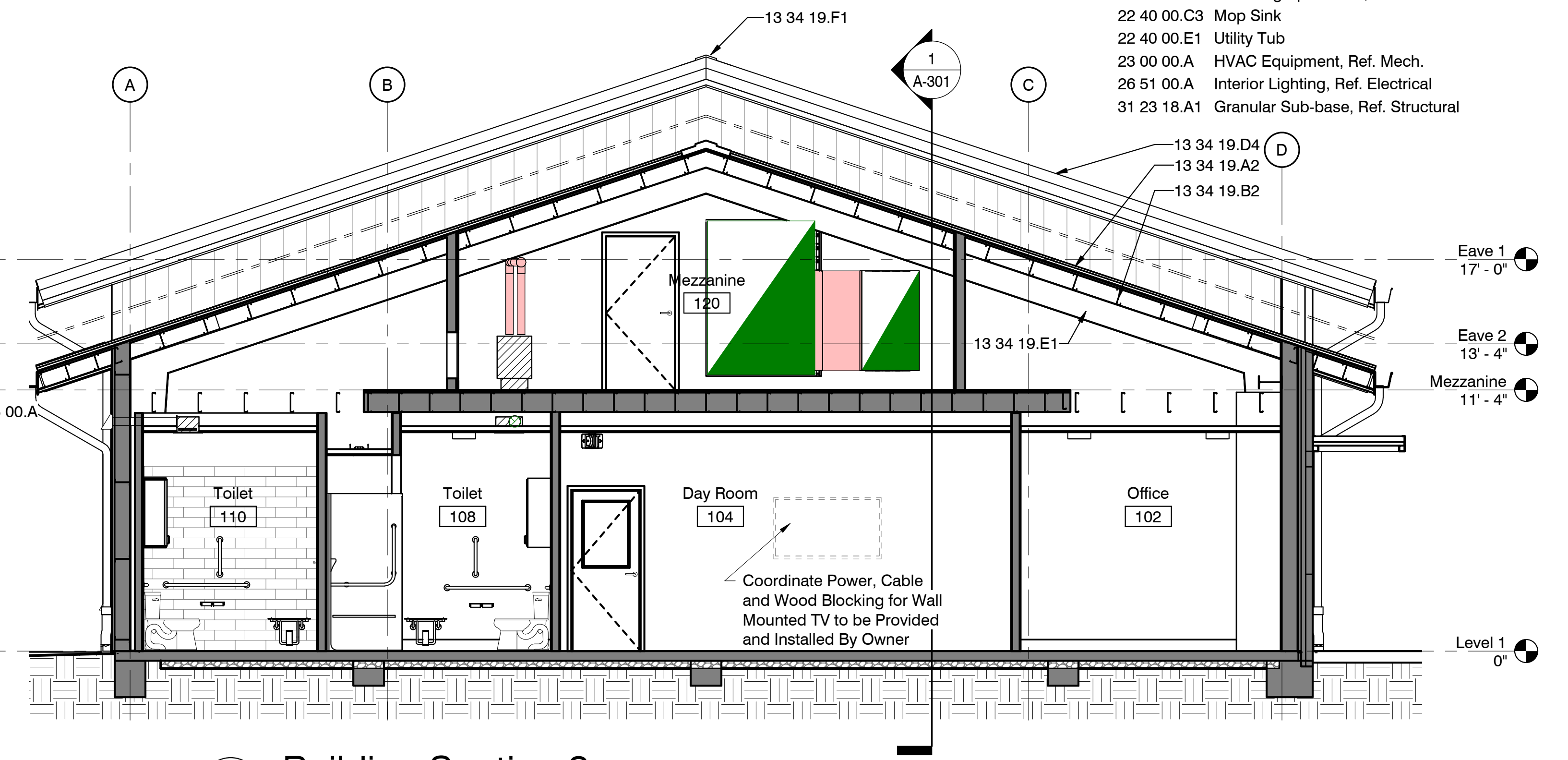
- 03 31 00.A1 Vapor Barrier
- 05 12 00.A1 Steel Structure, See Struct. Dwgs.
- 05 50 00.F2 HSS 4"x 4"x 1/4", Painted
- 05 50 00.G1 Metal Pan With Concrete Fill Stairs
- 05 50 00.N1 6" Diameter Steel Pipe BOLLARD, Concrete Filled
- 05 52 13 Pipe and Tube Railings
- 08 36 13.A3 Aluminum Sectional Door
- 08 36 13.A4 Steel Sectional Door
- 08 36 13.A5 Sectional Door Powered Operator
- 11 31 00.A Washing Machine
- 11 31 00.B Electric Clothes Dryer
- 13 25 00.A Panelized Above Ground Storm Shelter
- 13 34 19.A2 Standing Seam Metal Roof System
- 13 34 19.A5 Dektite Flashing for Vent Thru Roof
- 13 34 19.B2 Purlin
- 13 34 19.D2 Gutter
- 13 34 19.D4 Rake Trim
- 13 34 19.E1 Rigid Frame
- 13 34 19.E2 Portal Frame Bracing
- 13 34 19.F1 Ridge Cap
- 13 34 19.G1 PEMB Masonry Support Wind Beam
- 13 34 19.L1 PEMB Personnel Door (or Window) Canopy
- 22 04 30 Plumbing Specialties, Trench Drain
- 22 40 00.C3 Mop Sink
- 22 40 00.E1 Utility Tub
- 23 00 00.A HVAC Equipment, Ref. Mech.
- 26 51 00.A Interior Lighting, Ref. Electrical
- 31 23 18.A1 Granular Sub-base, Ref. Structural



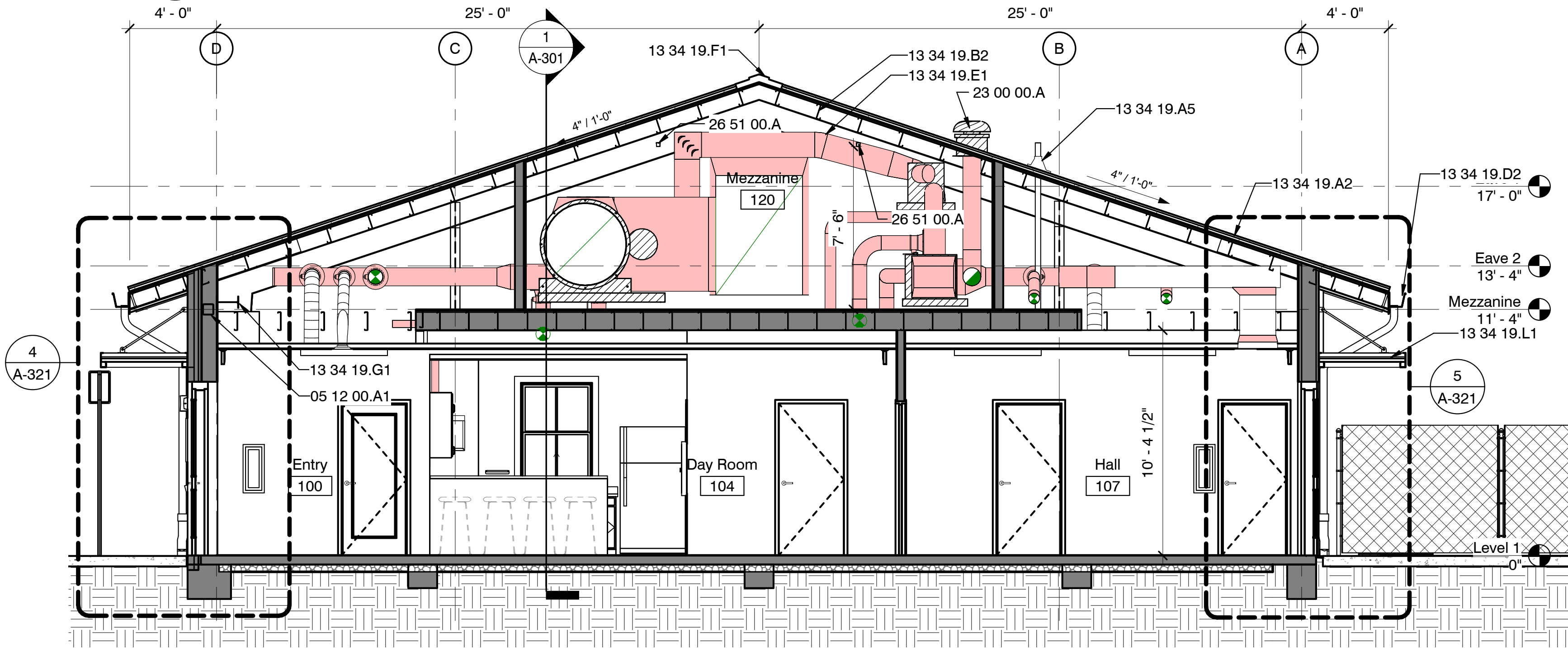
**1 Building Section 1**  
1/4" = 1'-0"



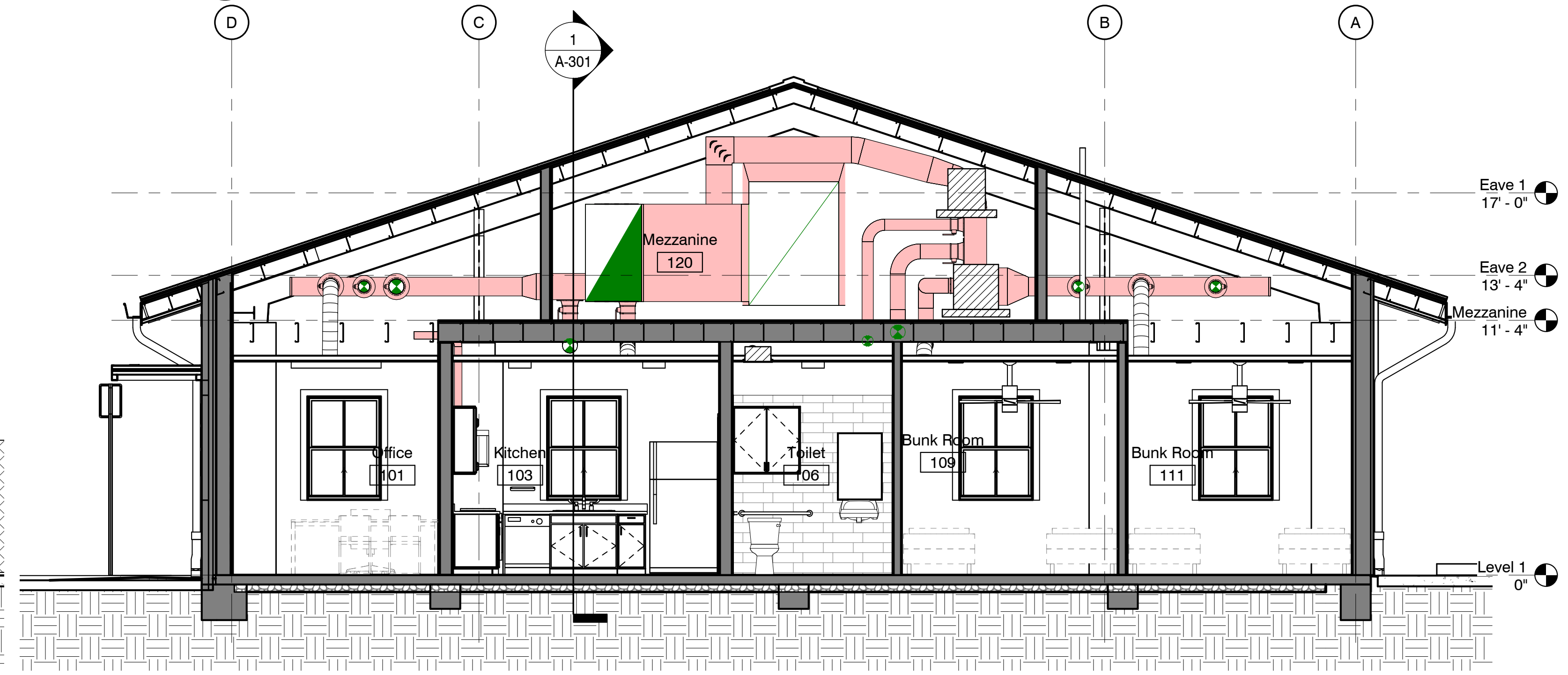
**2 Building Section 2**  
1/4" = 1'-0"



**3 Building Section 3**  
1/4" = 1'-0"



**4 Building Section 4**  
1/4" = 1'-0"



**5 Building Section 5**  
1/4" = 1'-0"

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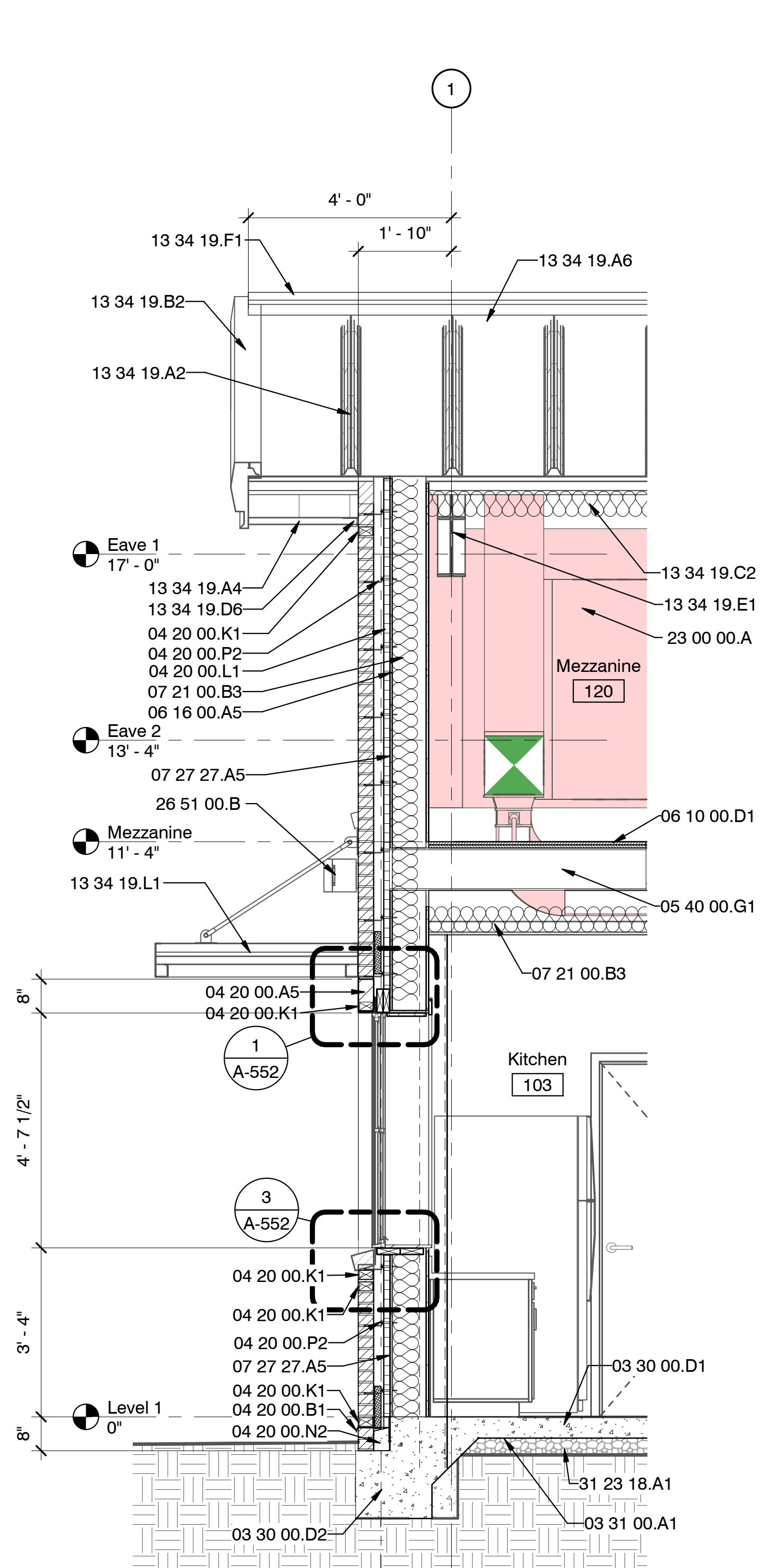


General Section Notes

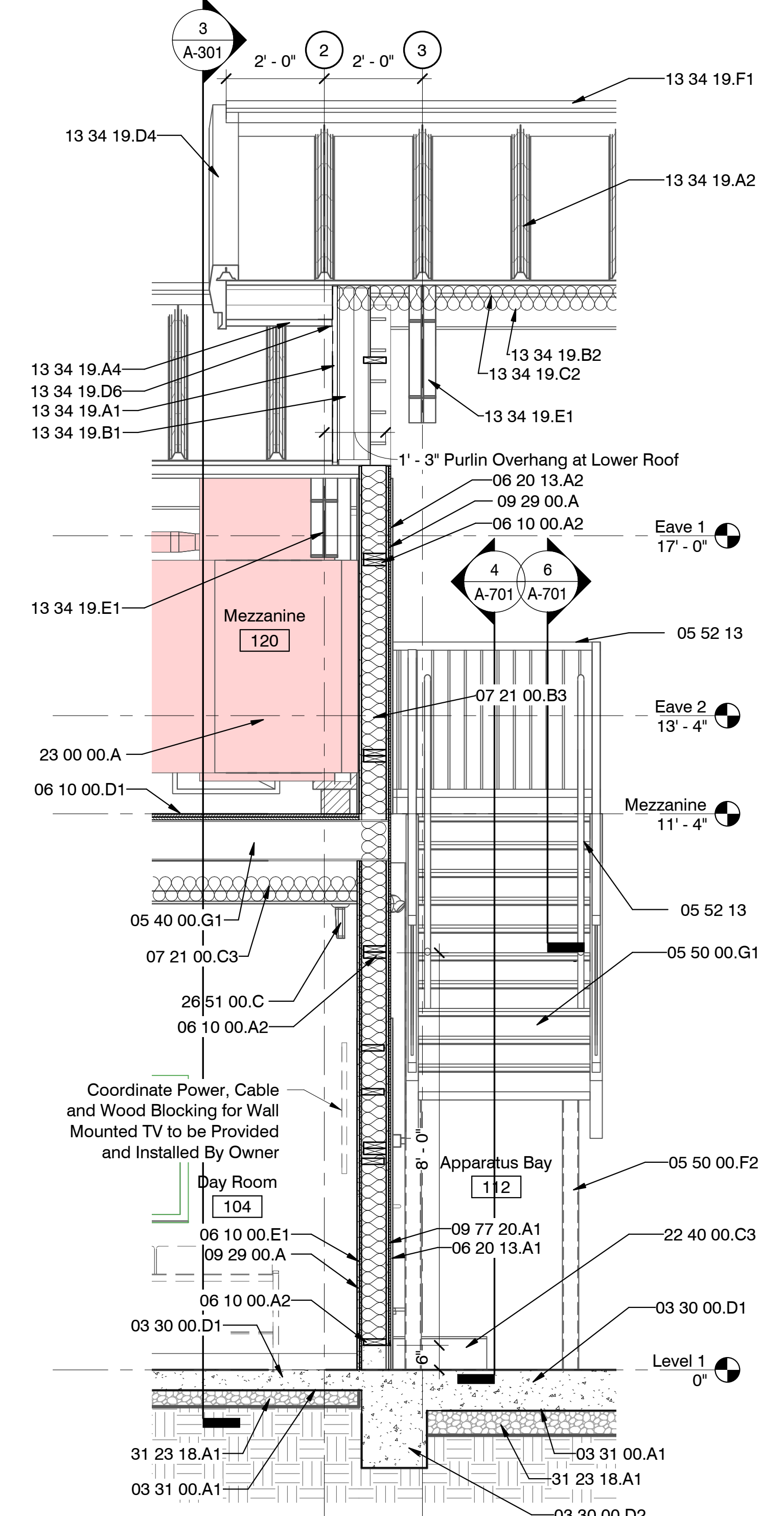
- Exterior air/water barrier and thermal insulation to be installed so as to provide a continuous separation of the building exterior from all interior occupied or conditioned spaces.
- Continuous air barrier to be provided at exterior building envelope. Air barrier joints and seams to be sealed at all joints and material transitions. Joints to be securely installed as to not dislodge, loosen or otherwise impair ability of continuous air barrier to resist positive and negative pressure from wind or mechanical units.
- Wall cavity insulation at veneer brick clad walls (rigid board insulation) to be 1.5" minimum thick with a minimum R-7 unless noted otherwise.
- Wall insulation in exterior stud walls to be unfaced R19 Fiberglass Batts.
- Wall insulation in west exterior wall with metal building girt wall framing and metal wall panels to be faced R19 fiberglass blanket as specified in Division 13
- Roof insulation to be R19 faced fiberglass blanket as specified in Division 13
- Provide and install continuous thru-wall flashing with weeps at 24" o.c. at the first horizontal joint above grade at the perimeter of the building where exterior cladding is brick veneer masonry.
- Grout solid all voids and cavities in walls below grade.
- All anchors, fasteners and attachment devices to be hot dipped galvanized steel unless otherwise noted or specified.
- See interior elevations sheets for descriptive interior information.

Sheet Keynote Legend

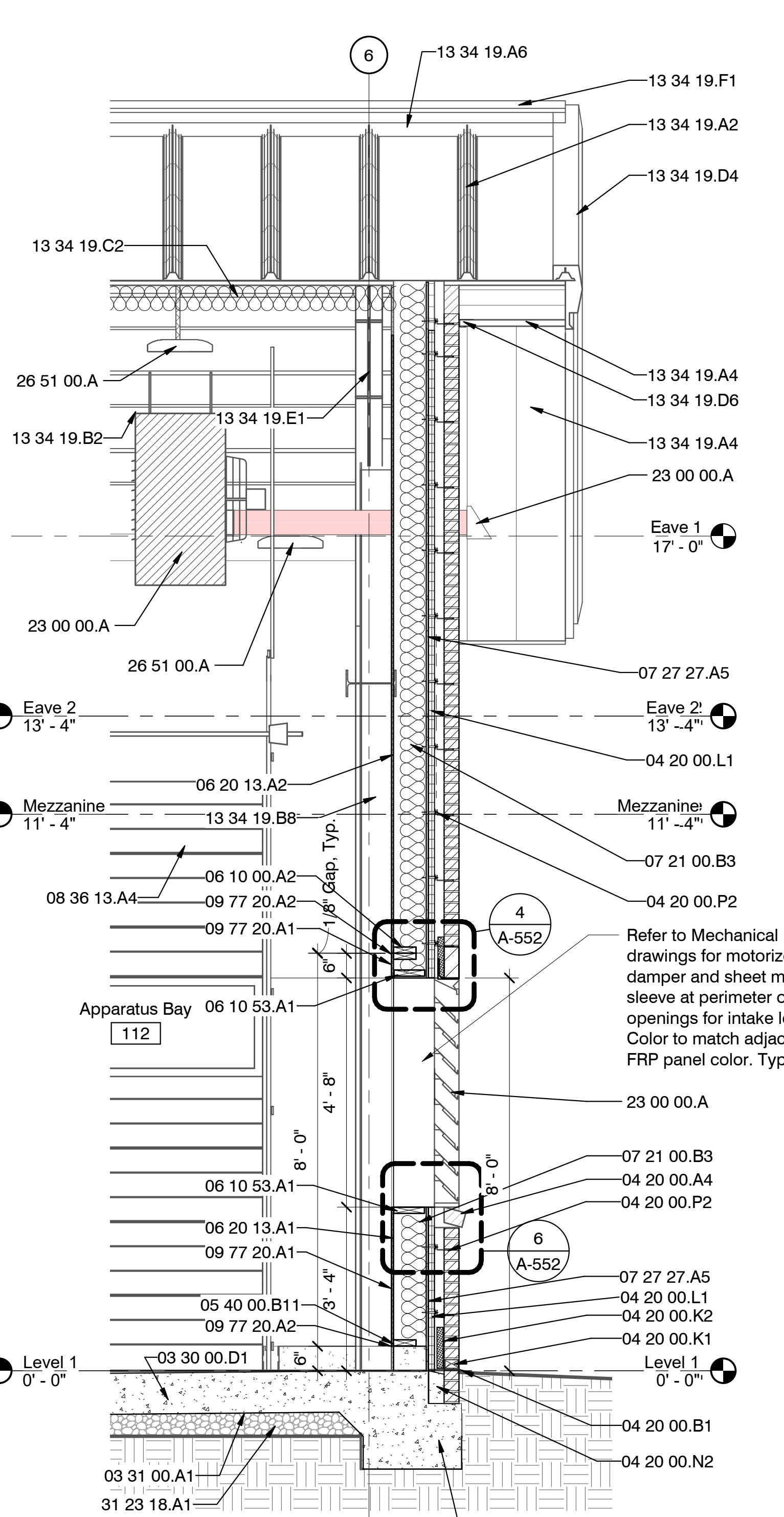
- 03 30 00.D1 Reinforced Concrete Slab, Ref. Structural
- 03 30 00.D2 Reinforced Concrete Footing, Ref. Structural
- 03 31 00.A1 Vapor Barrier
- 04 20 00.A4 Brick Sill Rowlock Type Color 2
- 04 20 00.A5 Veneer Brick Soldier Course Type Color 2
- 04 20 00.B1 Through Wall Flashing
- 04 20 00.K1 Weeps Vents
- 04 20 00.K2 Cavity Drainage Mat
- 04 20 00.L1 Rigid Insulation
- 04 20 00.N2 Non-Shrink Grout
- 04 20 00.P2 Adjustable Two-Piece Masonry Veneer Anchor
- 05 12 00.A1 Steel Structure, See Struct. Dwg.
- 05 40 00.B1 8" Metal Stud
- 05 40 00.G1 C Joist, Ref. Structural
- 05 50 00.F2 HSS 4"x 4"x 1/4", Painted
- 05 50 00.G1 Metal Pan With Concrete Fill Stairs
- 05 50 00.J1 Cast Iron Downspout Boot with Cleanout
- 05 50 00.N1 6" Diameter Steel Pipe Bollard, Concrete Filled
- 05 52 13 Pipe and Tube Railings
- 06 10 00.A2 Treated Wood Blocking
- 06 10 00.D1 3/4" Wood Floor Deck, Ref. Structural
- 06 10 00.E1 1/2" Plywood Shear Panel, Ref. Structural
- 06 10 53.A1 Treated Wood Blocking
- 06 16 00.A5 1/2" Glasmat Sheathing
- 06 20 13.A1 1/2" APA CDX Plywood with FRP Facing
- 06 20 13.A2 1/2" APA Exterior A-C Plywood Painted
- 07 21 00.B3 R-19 Fiberglass Batt Insulation
- 07 21 00.C3 Acoustic Batt Insulation
- 07 27 27.A5 Air Barrier
- 08 11 13 Hollow Metal Doors and Frames
- 08 36 13.A3 Aluminum Sectional Door
- 08 36 13.A4 Steel Sectional Door
- 09 29 00.A 5/8" Type X Gypsum Wallboard
- 09 77 20.A1 Fiberglass Reinforced Plastic (FRP) Wall Panel
- 09 77 20.A2 PVC Edge Trim Molding
- 13 34 19.A1 Metal Wall Panel
- 13 34 19.A2 Standing Seam Metal Roof System
- 13 34 19.A4 Metal Soffit Panel
- 13 34 19.A6 Painted Metal SSR Ridge Closure
- 13 34 19.A7 Painted Metal SSR Rib Closure
- 13 34 19.B1 Girt
- 13 34 19.B2 Purlin
- 13 34 19.B3 Eave Strut
- 13 34 19.B8 Endwall Column
- 13 34 19.C2 Faced R19 Insulation
- 13 34 19.D2 Gutter
- 13 34 19.D3 Downspout
- 13 34 19.D4 Rake Trim
- 13 34 19.D6 Soffit Panel Trim
- 13 34 19.D9 Custom Eave Trim (Cover Eave Strut and Soffit)
- 13 34 19.E1 Rigid Frame
- 13 34 19.E2 Portal Frame Bracing
- 13 34 19.F1 Ridge Cap
- 13 34 19.G1 PEMB Masonry Support Wind Beam
- 13 34 19.H1 R5 Thermal Spacer
- 13 34 19.L1 PEMB Personnel Door (or Window) Canopy
- 13 34 19.M1 PEMB Flush (Piggy-Back) Canopy Rafter
- 22 40 00.C3 Mop Sink
- 23 00 00.A HVAC Equipment, Ref. Mech.
- 26 51 00.A Interior Lighting, Ref. Electrical
- 26 51 00.B Exterior Lighting, Ref. Electrical
- 26 51 00.C Exit Lighting, Ref. Electrical
- 31 23 18.A1 Granular Sub-base, Ref. Structural
- 32 31 13.A1 Chain Link Fencing



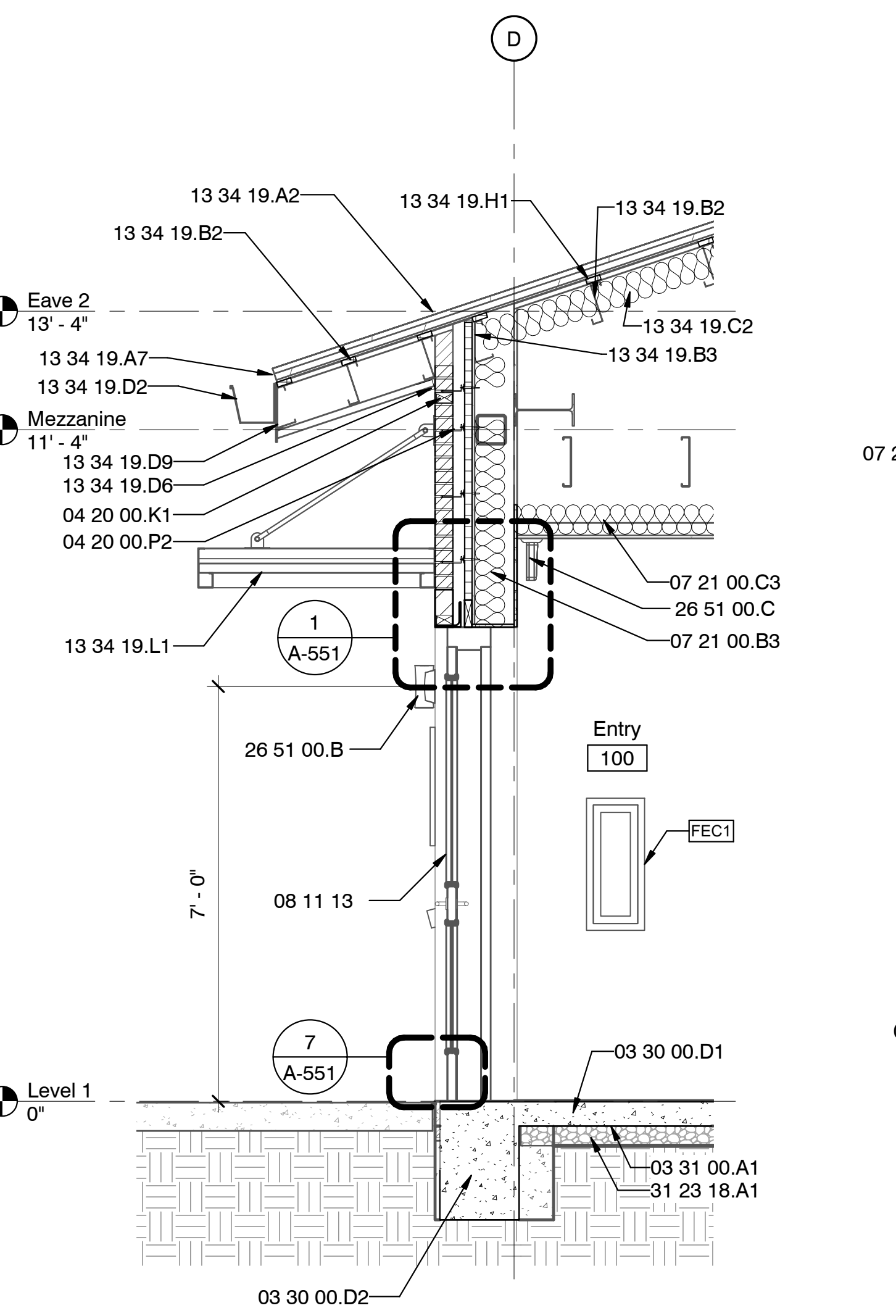
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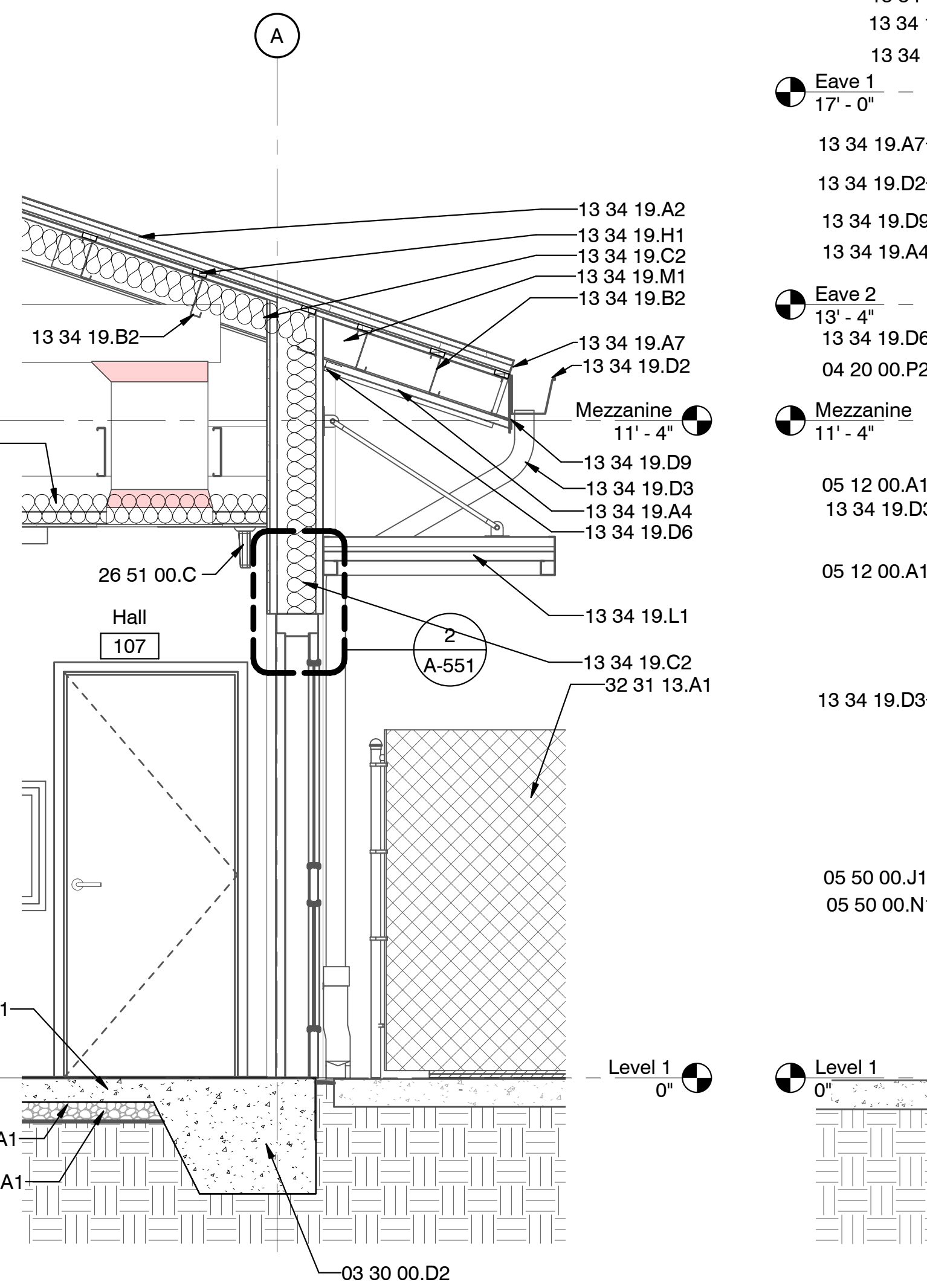
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1/2" = 1'-0"



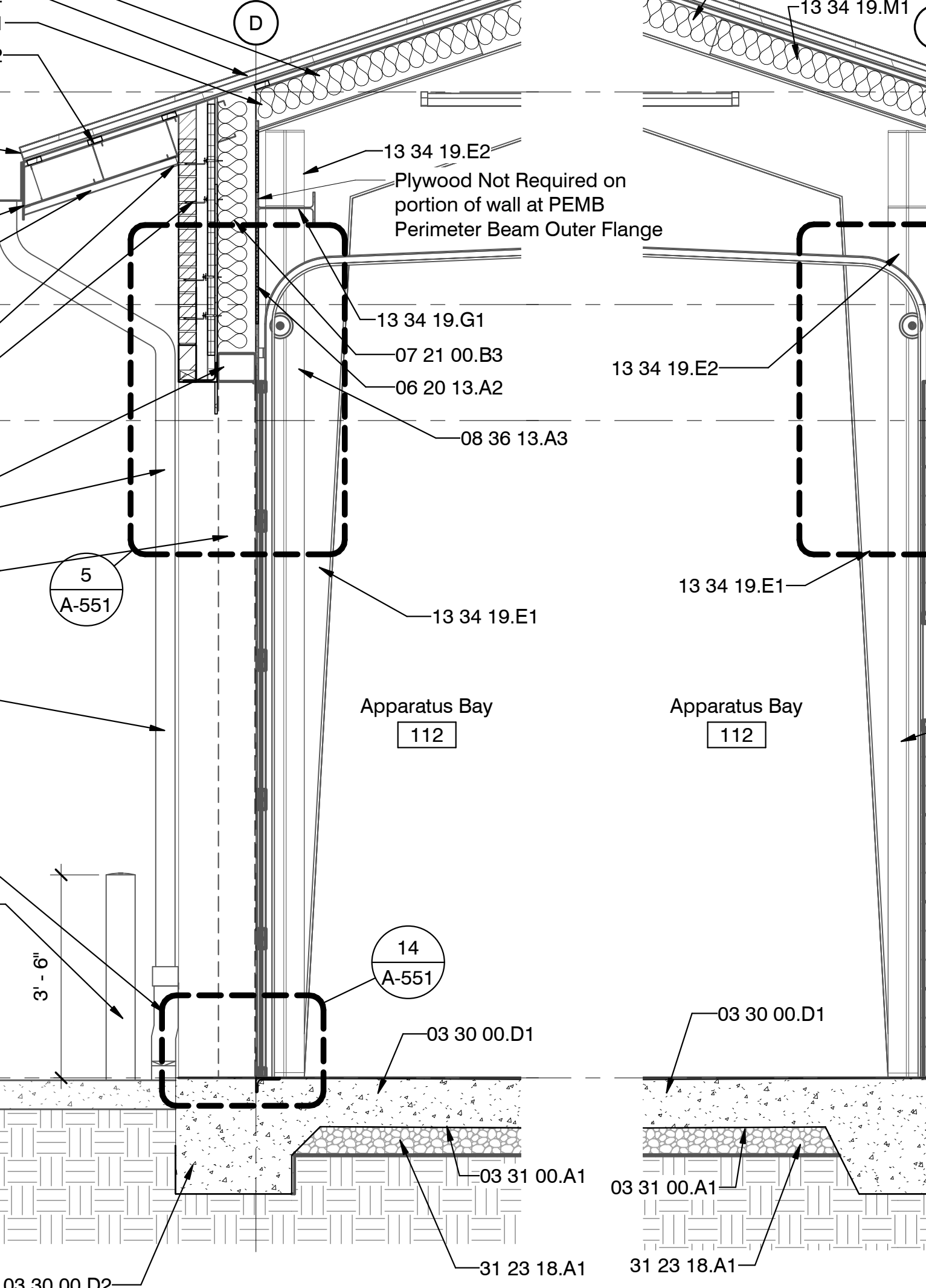
3 Wall Section 3  
1/2" = 1'-0"



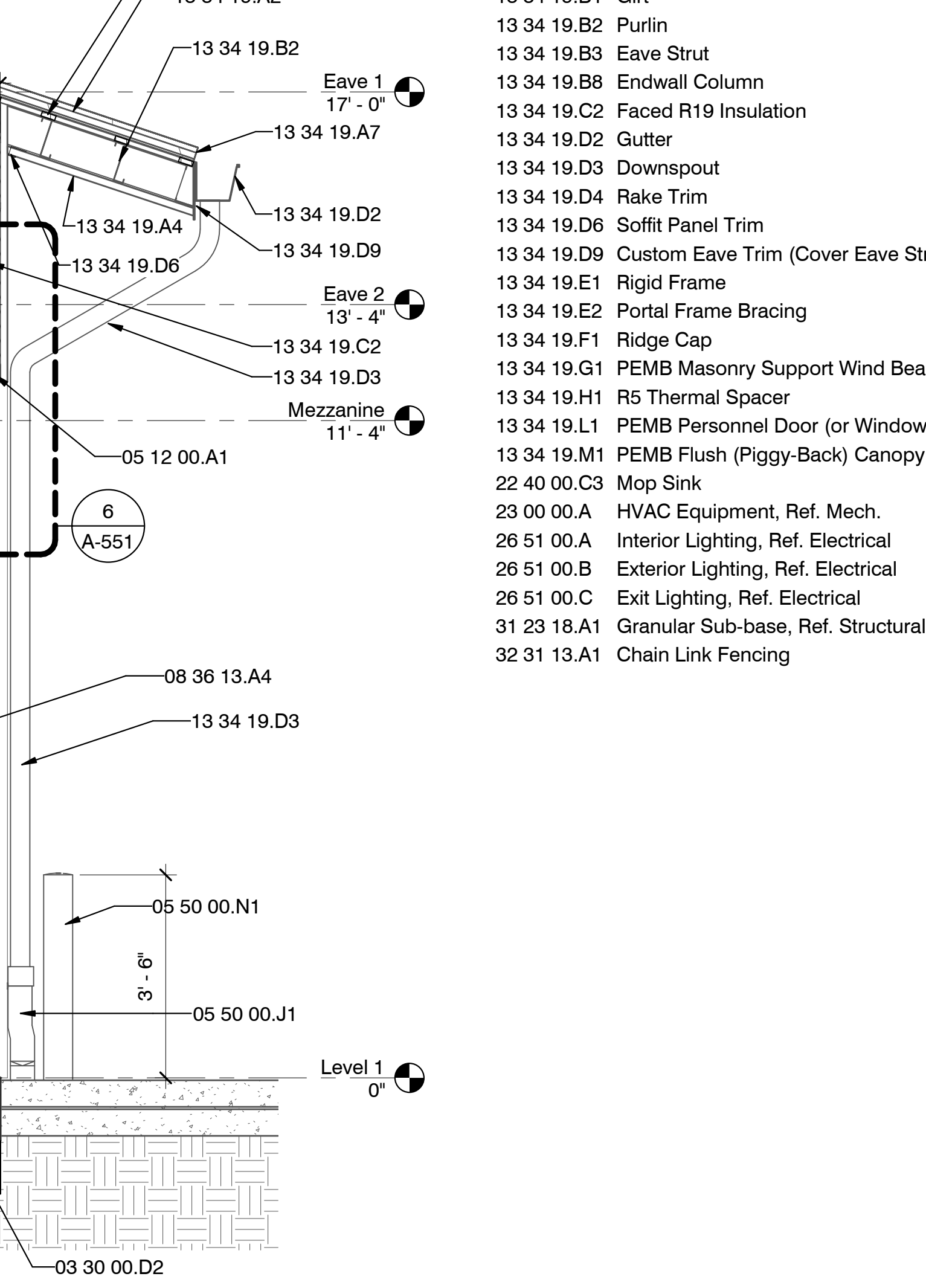
4 Wall Section 4  
1/2" = 1'-0"



5 Wall Section 5  
1/2" = 1'-0"



6 Wall Section 6  
1/2" = 1'-0"



7 Wall Section 7  
1/2" = 1'-0"

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