

Addendum No. 2
August 30, 2024

Project: KOA – Rapid City Office
Rapid City, South Dakota
#3017

Architect: Architecture Incorporated

Letting: Thursday, September 5, 2024
2:00 pm MT
Office of Architecture Incorporated
508 7th Street
Suite 200
Rapid City, SD 57701

Scope of this Addendum:

To all bidders and all others to whom drawings and specifications have been issued by Architecture Incorporated, this Addendum forms a part of the Contract Documents. Acknowledge receipt of this addendum by listing its number and date in the bidder's Form of Proposal. Failure to do so may subject bidder to disqualification. This addendum modifies the drawings and specifications as follows:

GENERAL ITEMS:

- 1) DRAWING 5.12 STOREFRONT ELEVATIONS & DETAILS
 - a) Clarification: Change Fixed Window types A, B, and C from aluminum windows to aluminum storefront framing.

- 2) DRAWING 5.40 SECTION DETAILS
 - a) Revised detail 5/5.40 – Modified ceiling detail to be single layer of 5/8” gypsum board over 1/2” resilient channel.
 - b) Revised sheet 5.40 is attached, with changes clouded and noted as “2”.

- 3) DRAWING 5.42 – SECTION DETAILS
 - a) Revised detail 3/5.42 – Deleted second layer of 5/8” gypsum board from detail to align with wall type indicated on floor plan.
 - b) Revised detail 5/5.42 – Deleted second layer of 5/8” gypsum board from detail to align with wall type indicated on floor plan.
 - c) Revised sheet 5.42 is attached, with changes clouded and noted as “2”.

GENERAL APPROVALS:

The following material or equipment furnished by the manufacturers listed, may be substituted as equivalent providing that each item, material, and piece of equipment conforms to the design and requirement of the specifications.

SECTION	ITEM	MANUFACTURER
074113	Standing Seam Metal Roof Panels	Metal Building Components Incorporated (MBCI)
102800	Toilet Accessories (Electric Hand Dryer)	World Dryer Inc.

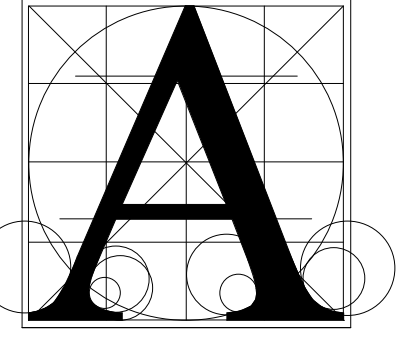
CIVIL ITEMS: See attached Addendum No. 2 from FMG Engineering, dated 8/30/2024.

STRUCTURAL ITEMS: See attached Addendum #2 from Albertson Engineering, dated 8/30/2024.

MECHANICAL ITEMS: See attached Addendum No. 2 from Skyline Engineering, dated 08/30/2024.

ELECTRICAL ITEMS: See attached Addendum No. 2 from Skyline Engineering, dated 08/30/2024.

END OF ADDENDUM



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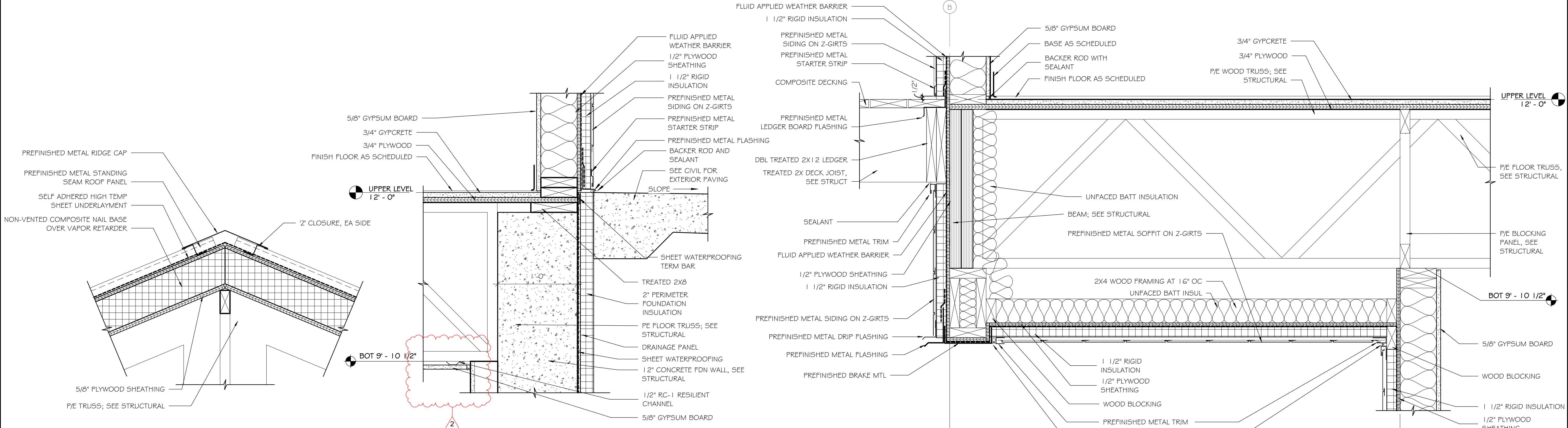


KOA - RAPID CITY OFFICE
SECTION DETAILS

number 3017
date 08-05-2024
revision
drawn AO/MM checked JGB

NO.	DATE	DESCRIPTION
2	08-30-2024	Addendum #2

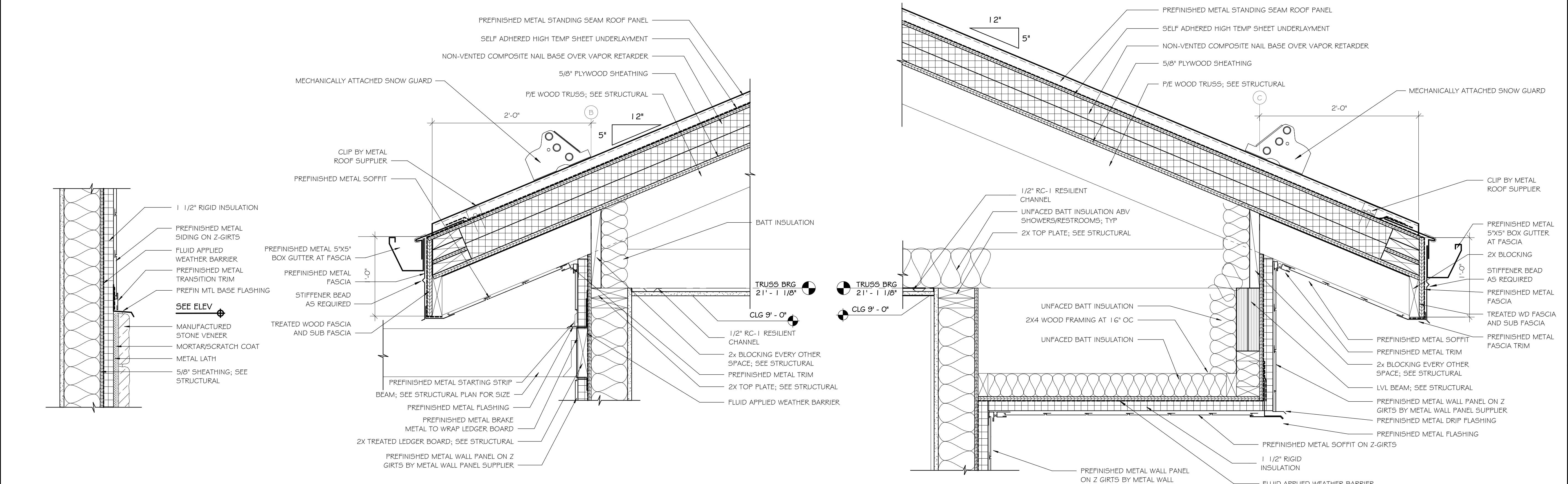
5.40



6 RIDGE DETAIL
SCALE: 1/2" = 1'-0"

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

4 SECTION DETAIL
SCALE: 1/2" = 1'-0"

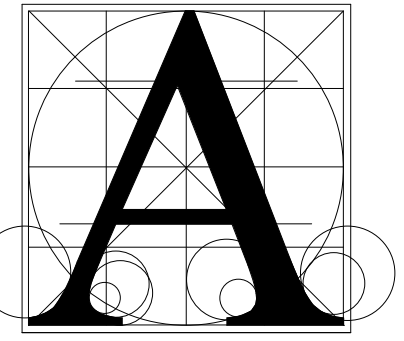


3 SECTION DETAIL
SCALE: 1/2" = 1'-0"

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

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

5/29/2024 4:21:22 PM



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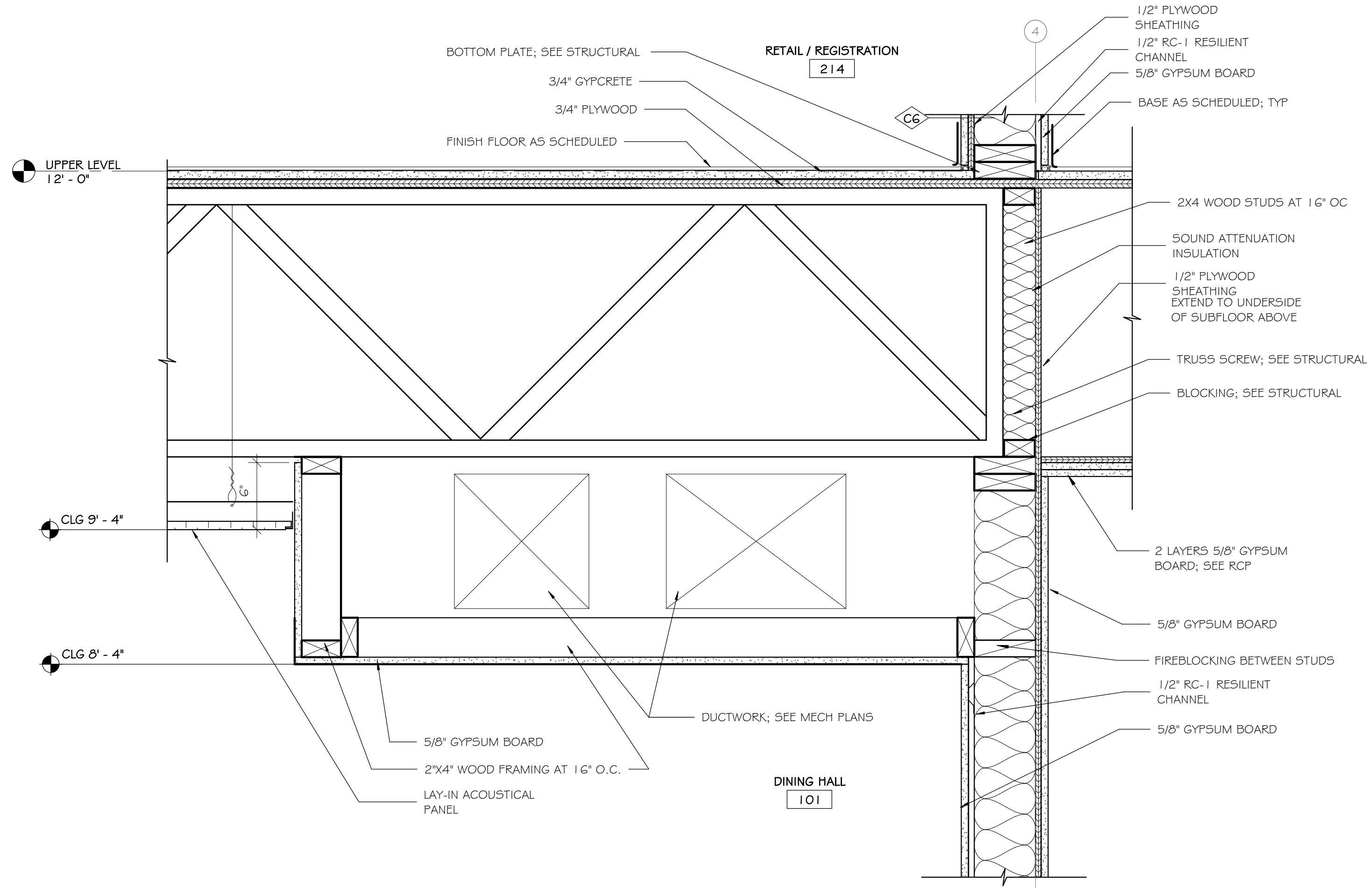
Project
KOA - RAPID CITY OFFICE

sheet contents
SECTION DETAILS

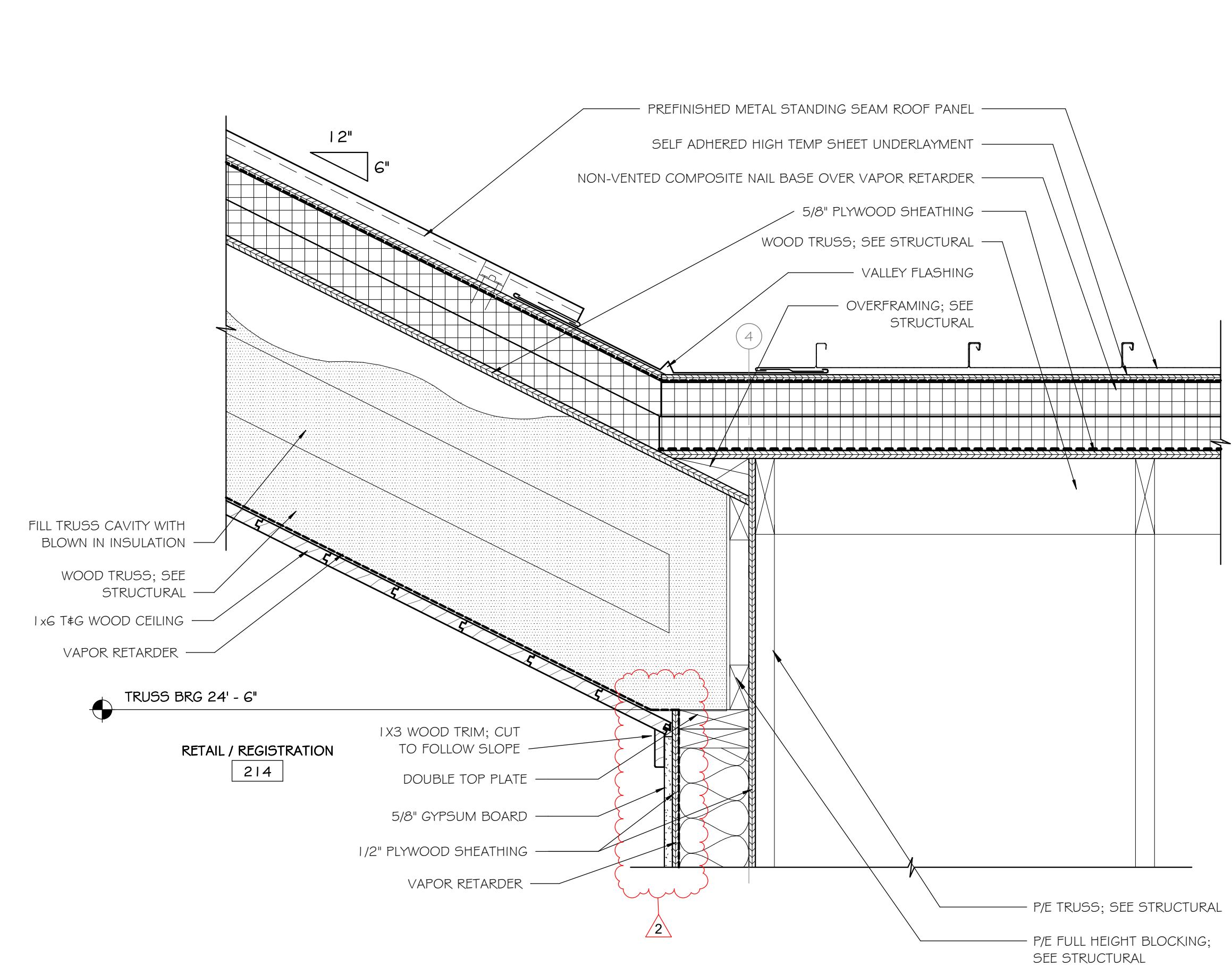
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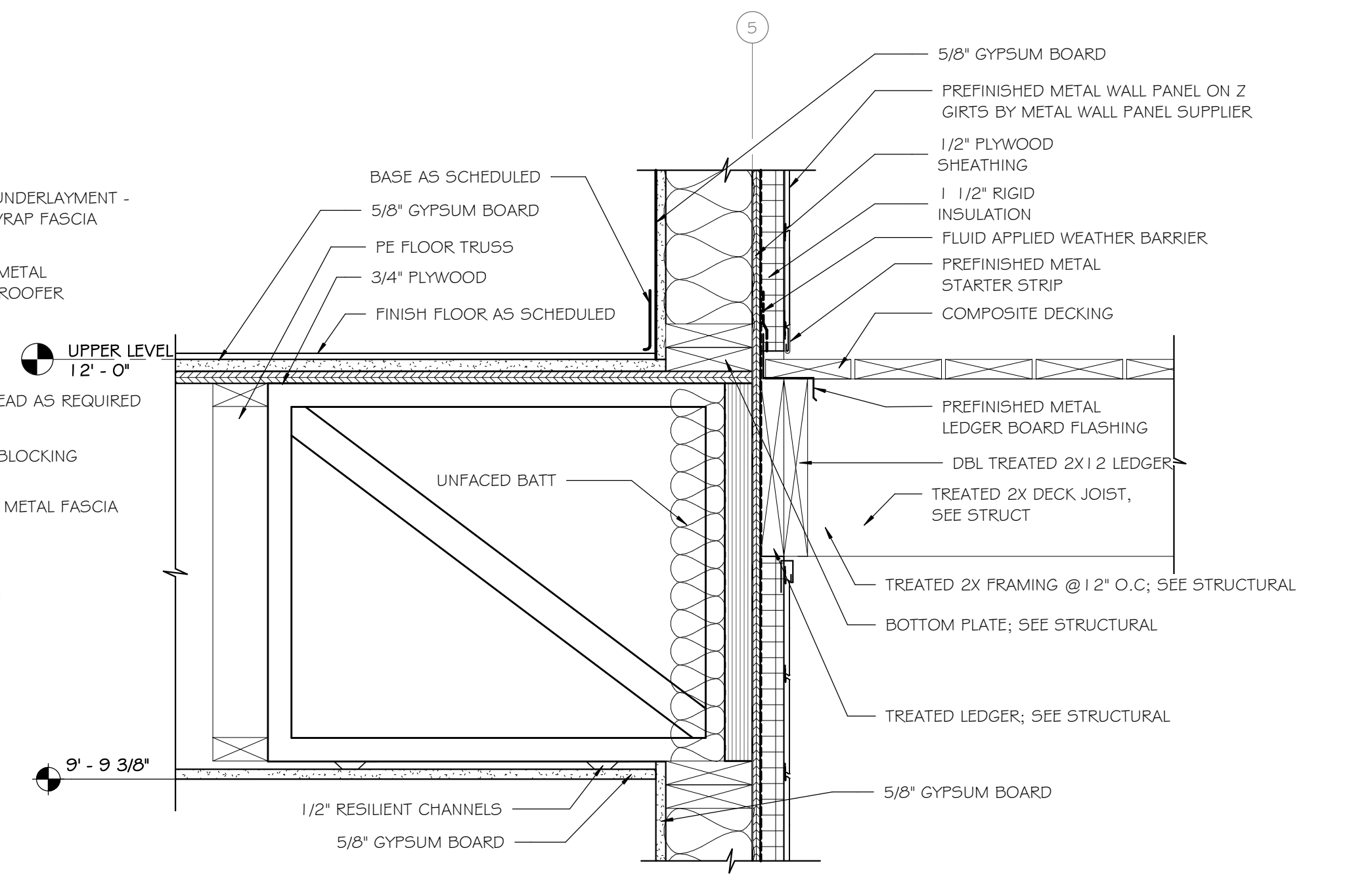
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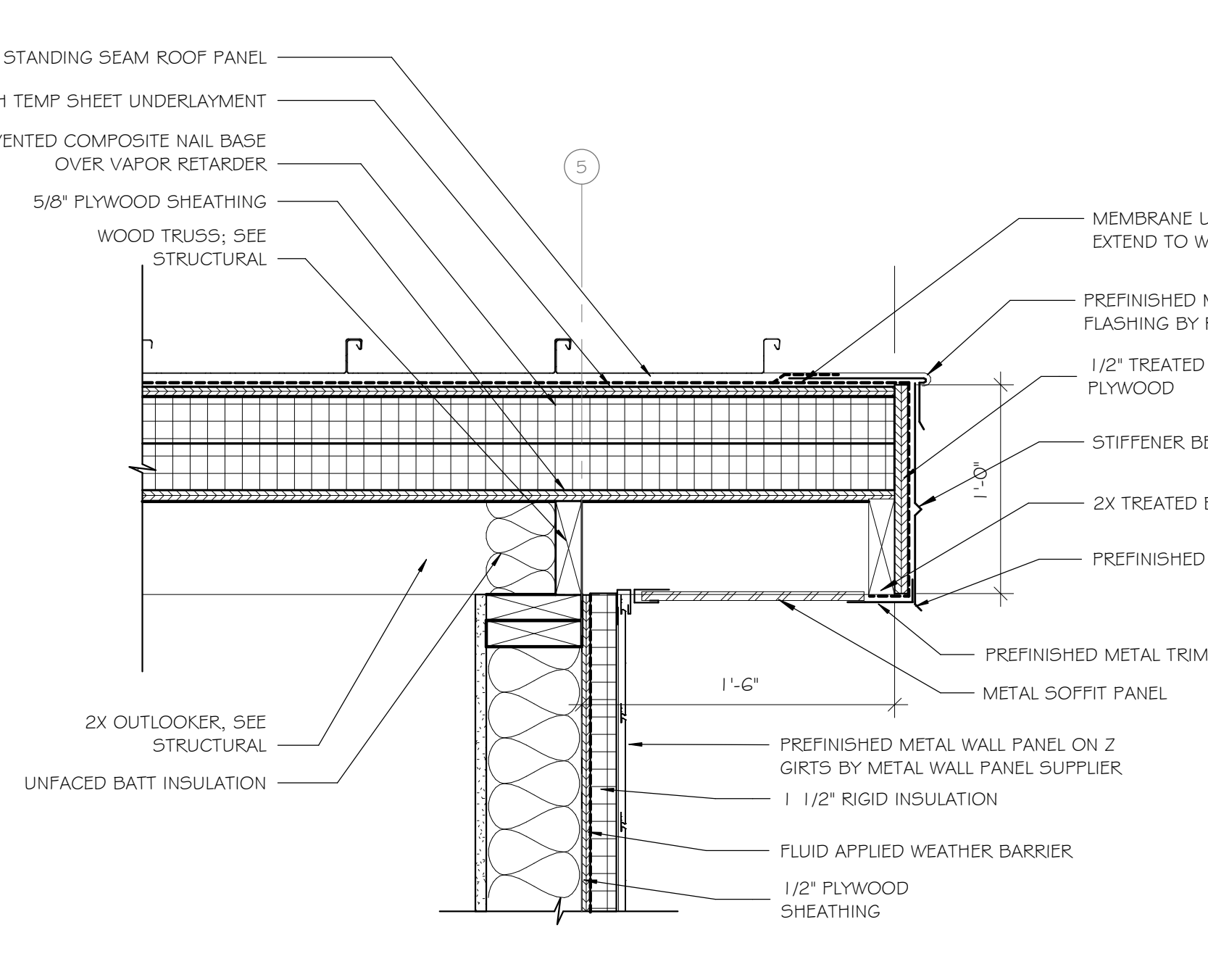
4 SECTION DETAIL
SCALE: 1/2" = 1'-0"



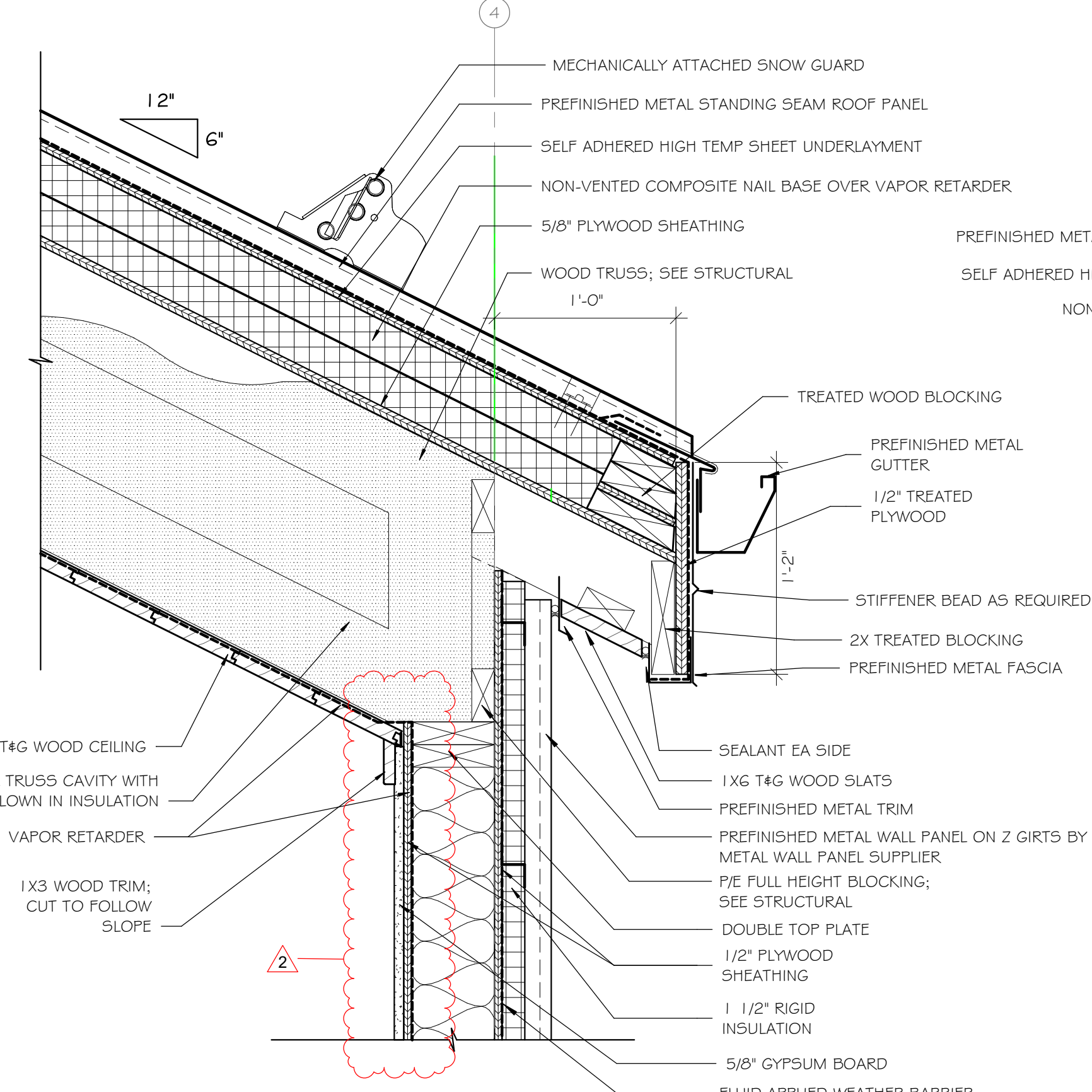
5 SECTION DETAIL
SCALE: 1/2" = 1'-0"



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



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



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

5/29/2024 4:22:03 PM



CIVIL ITEMS

for

ADDENDUM NO. 2

**KOA - RAPID CITY OFFICE
RAPID CITY, SOUTH DAKOTA**

This Addendum Dated August 30, 2024 is for all persons preparing bids for the above referenced project and as such, shall be made a part of the Contract Documents.

All changes, corrections, deletions and/or additions to the initial bidding documents enumerated herein shall be included in the Bidder's Proposal. In case of any conflict between the drawings, specifications, and this Addendum, this Addendum shall govern.

<u>Item</u> C2-1	<u>Description</u> SHEET 2.10 Phased Demolition for Building Foundation and Wall Construction
	The Contractor will be allowed to demo additional asphalt pavement between the Existing Registration Building and the Restroom/Showers building to construct the proposed building foundation and walls. The Contractor will be able to close the main access drive from November 1 st , 2024 to March 15 th , 2025 to complete this work. Contractor to provide temporary gravel surfacing and maintain surfacing where asphalt within phase 2 demo has been removed.
<u>Item</u> C2-2	<u>Description</u> SHEET 2.10 Temporary Construction Fencing
	Orange plastic temporary construction fencing is an acceptable material for temporary fencing shown on the Demolition Plan. Contractor may use other material type of fencing as required for their own purposes during construction.
<u>Item</u> C2-3	<u>Description</u> SHEET 2.30 and 2.31 – Utility Plan & Profiles (Sheet Revision) Changes to the Water Service Line Connection Point
	See revised drawings for changes to the water service line connection to the existing water main. has been changed. See
<u>Item</u> C2-4	<u>Description</u> SHEET 2.41 – Enlarged Grading Plan (Sheet Revision) Changes to the Spot elevations
	See revised drawings for changes to spot elevation along proposed wall and sidewalk.
<u>Item</u> C2-5	<u>Description</u> SHEET 2.75 – Details (Sheet Revision) Changes to the Details
	See revised drawings for changes to the following details:

- Typical Foundation Drain Detail
- Thickened Edge Sidewalk
- Reinforced Concrete Sidewalk
- 8" Gravel Surfacing

Item
C2-6

Description
Water Service Connection Fee

The Owner will be responsible for the water service connection fees with Rapid Valley Sanitation District. Contractor to coordinate with Owner for payment of fee. The total area being re-developed is 55,000 square feet.

Item
C2-7

Description
Water Piping, Appurtenances, and Construction to follow Rapid Valley Sanitary District – Specifications Dated April 2024

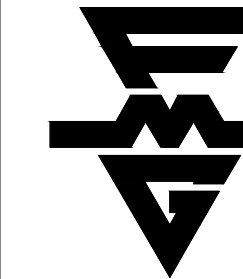
See attached RVSD Specifications attached to this Addendum. The following items should be noted:

- Cathodic protection for fittings is not required
- Fittings to be double wrapped with 8 mil plastic
- 4" concrete block under all fittings and valves
- 12g tracer wire is acceptable
- Yellow colored Hydrants are not required
- The barrel of the hydrant needs to be wrapped in 8 mil plastic

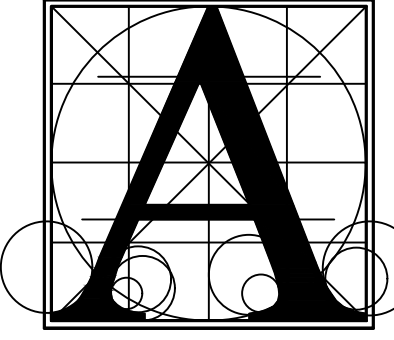
END OF ADDENDUM NO. 2 CIVIL ITEMS

Note:

Water Piping, Appurtenances, and Construction to follow Rapid Valley Sanitary District - Specifications Dated April 2024



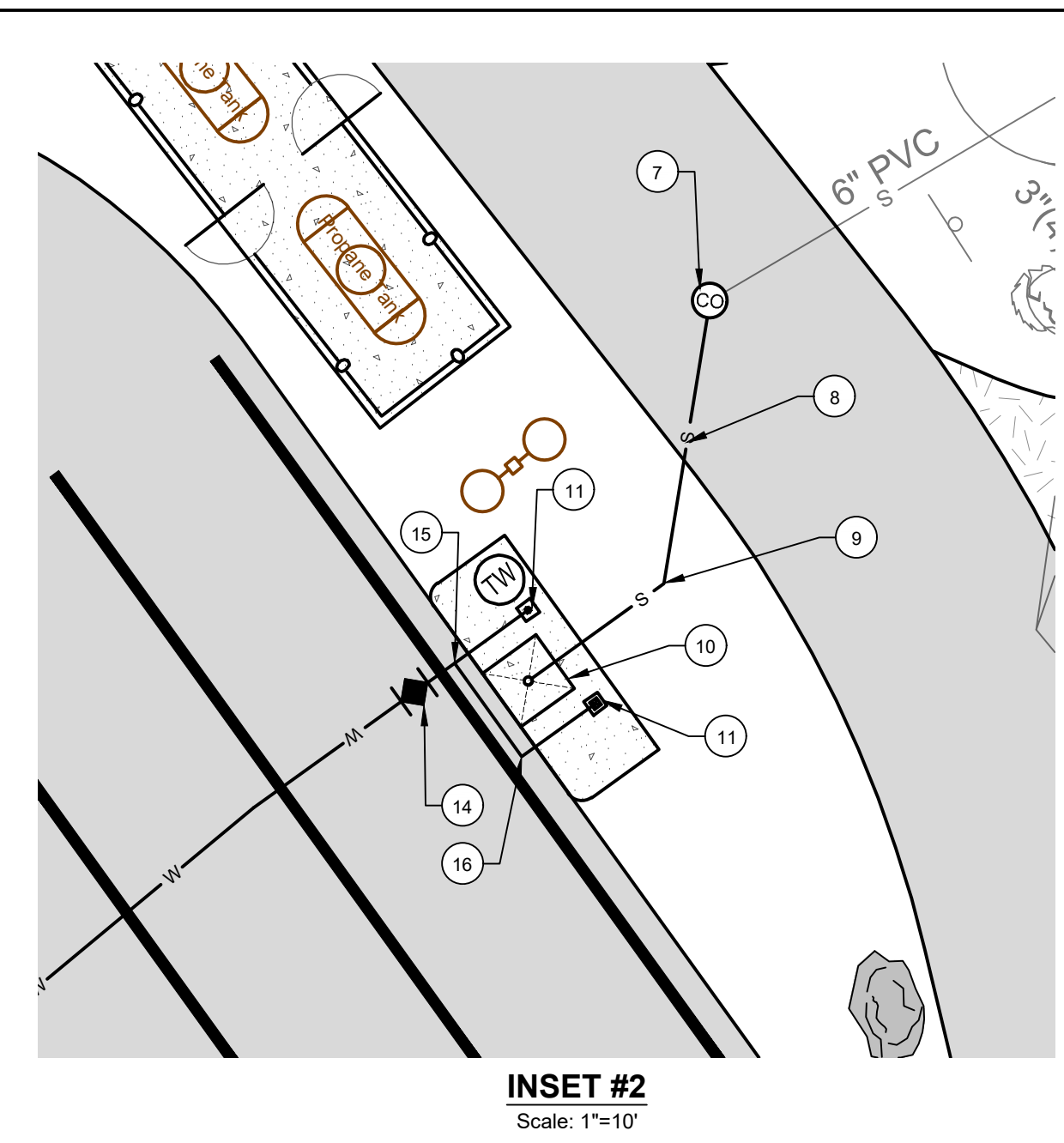
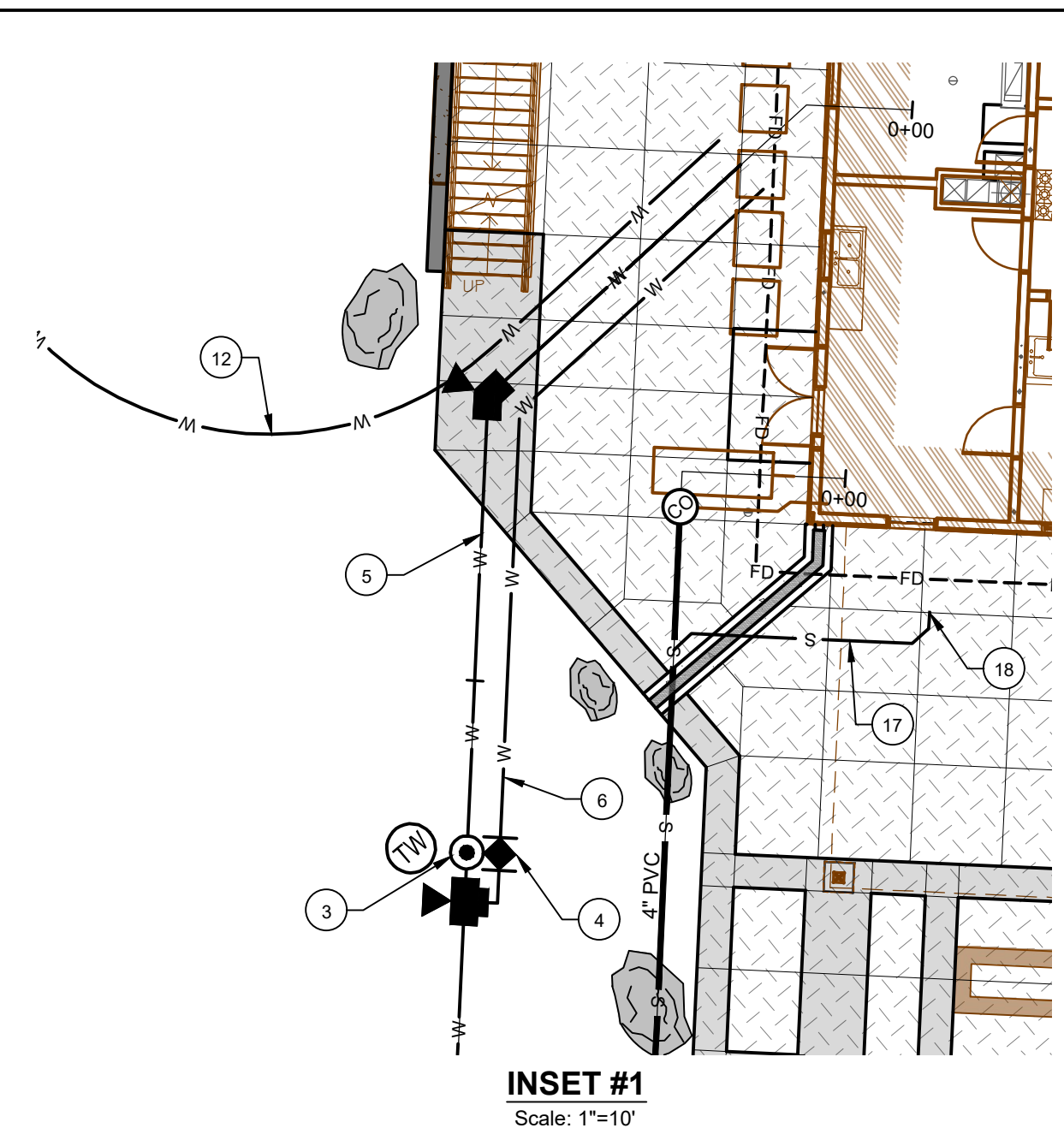
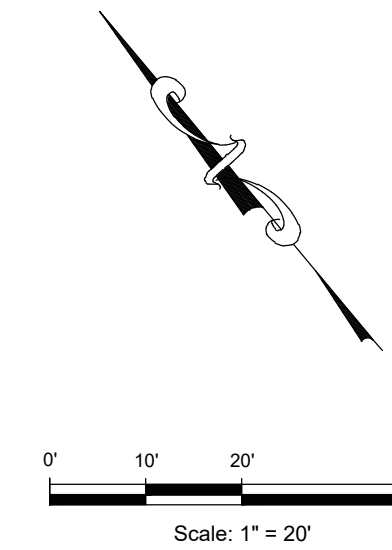
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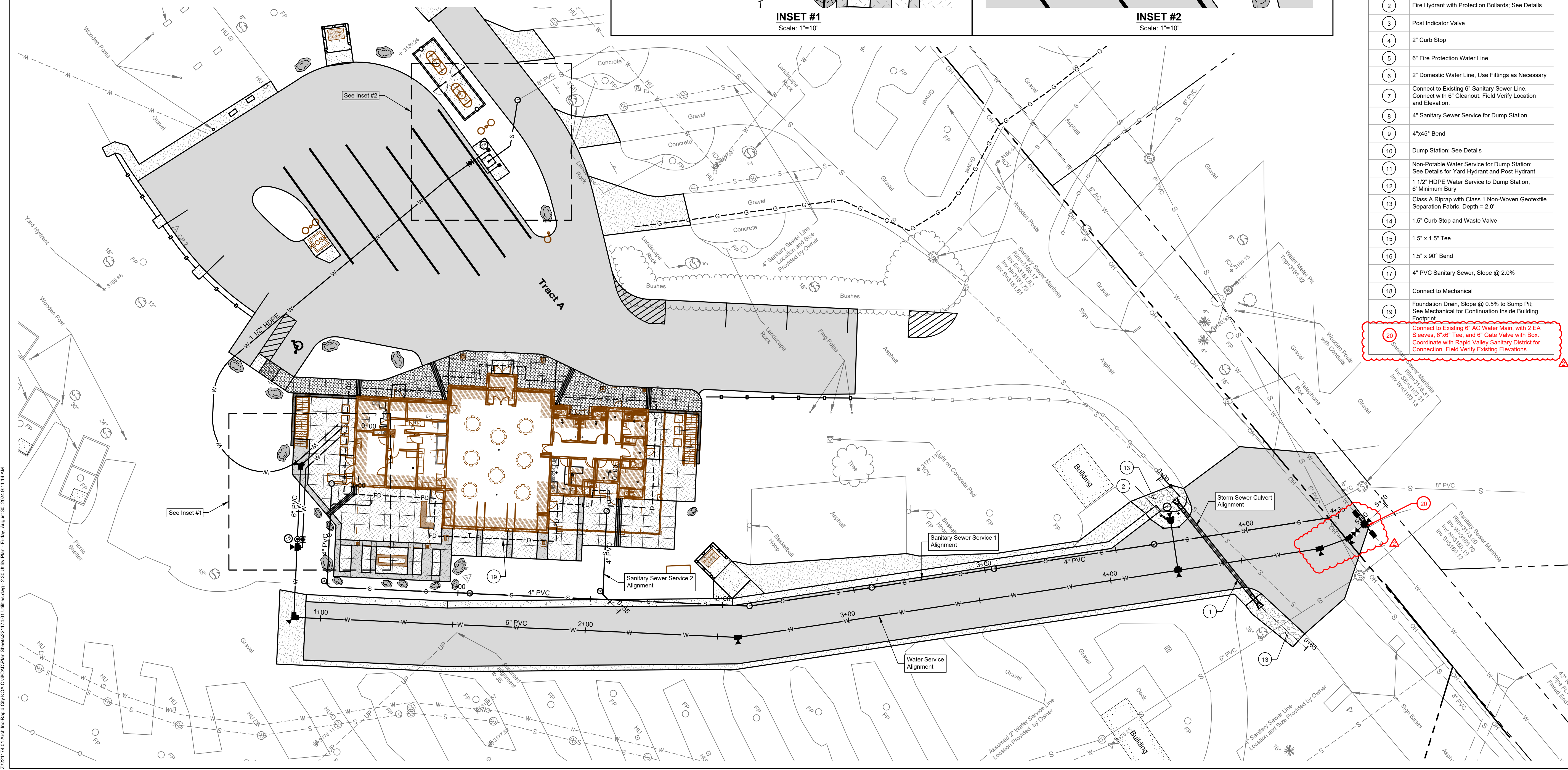
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UTILITY CALLOUTS

Callout No.	Description
1	12" Storm Sewer Culvert
2	Fire Hydrant with Protection Bollards; See Details
3	Post Indicator Valve
4	2" Curb Stop
5	6" Fire Protection Water Line
6	2" Domestic Water Line, Use Fittings as Necessary
7	Connect to Existing 6" Sanitary Sewer Line. Connect with 6" Cleanout. Field Verify Location and Elevation.
8	4" Sanitary Sewer Service for Dump Station
9	4"x45" Bend
10	Dump Station; See Details
11	Non-Potable Water Service for Dump Station; See Details for Yard Hydrant and Post Hydrant
12	1 1/2" HDPE Water Service to Dump Station, 6" Minimum Bury
13	Class A Riprap with Class 1 Non-Woven Geotextile Separation Fabric, Depth = 2.0'
14	1.5" Curb Stop and Waste Valve
15	1.5" x 1.5" Tee
16	1.5" x 90° Bend
17	4" PVC Sanitary Sewer, Slope @ 2.0%
18	Connect to Mechanical
19	Foundation Drain, Slope @ 0.5% to Sump Pit; See Mechanical for Continuation Inside Building Footprint
20	Connect to Existing 6" AC Water Main, with 2 EA Sleeves, 6"x6" Tee, and 6" Gate Valve with Box. Coordinate with Rapid Valley Sanitary District for Connection. Field Verify Existing Elevations



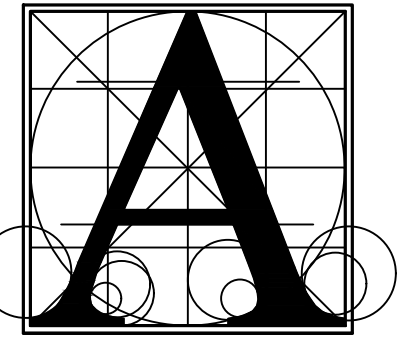
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Project sheet contents

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date	08-02-24	
revision		
drawn	JRK checked KLH	
NO.	DATE	DESCRIPTION
1	8-30-24	Addendum #2

2.30

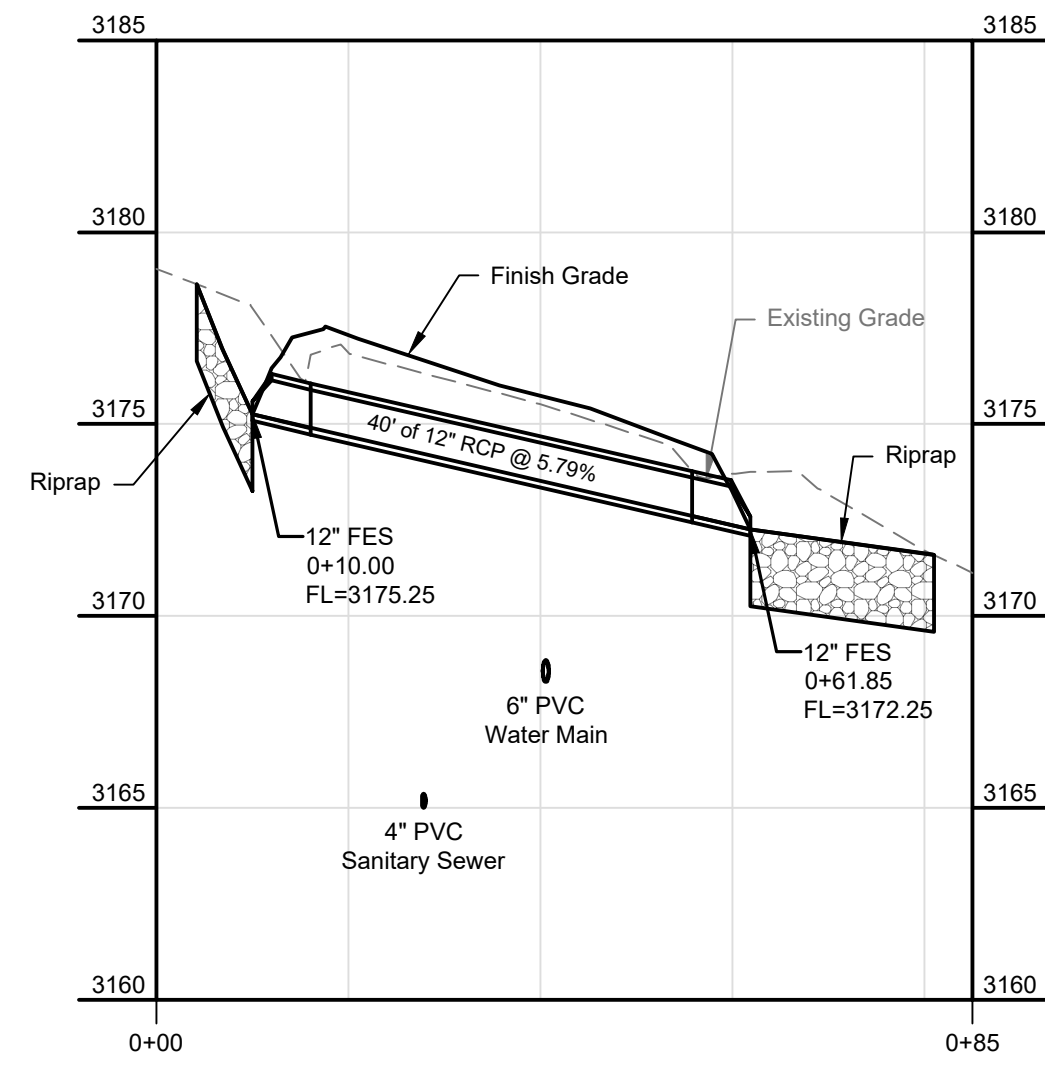
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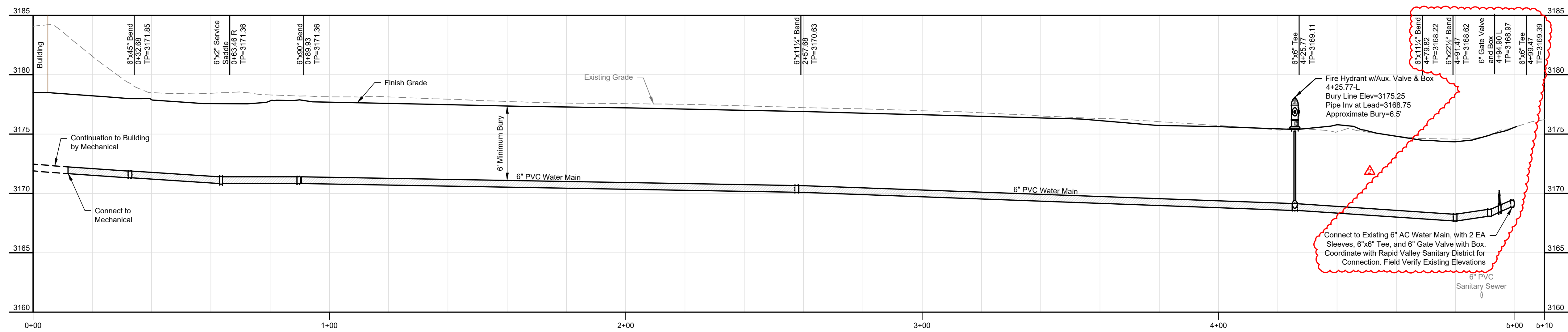
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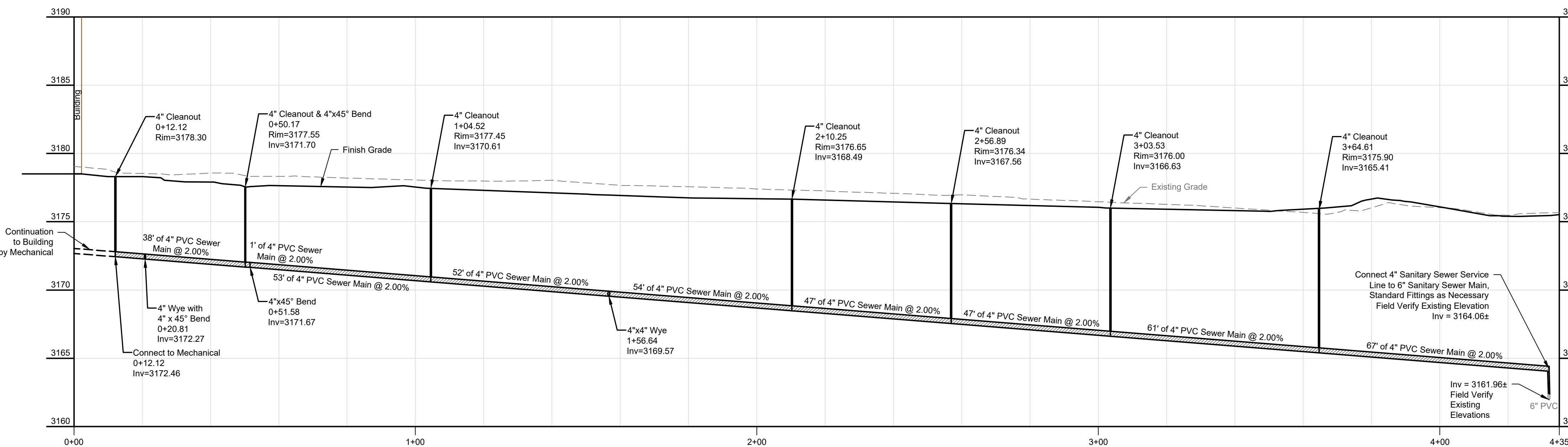
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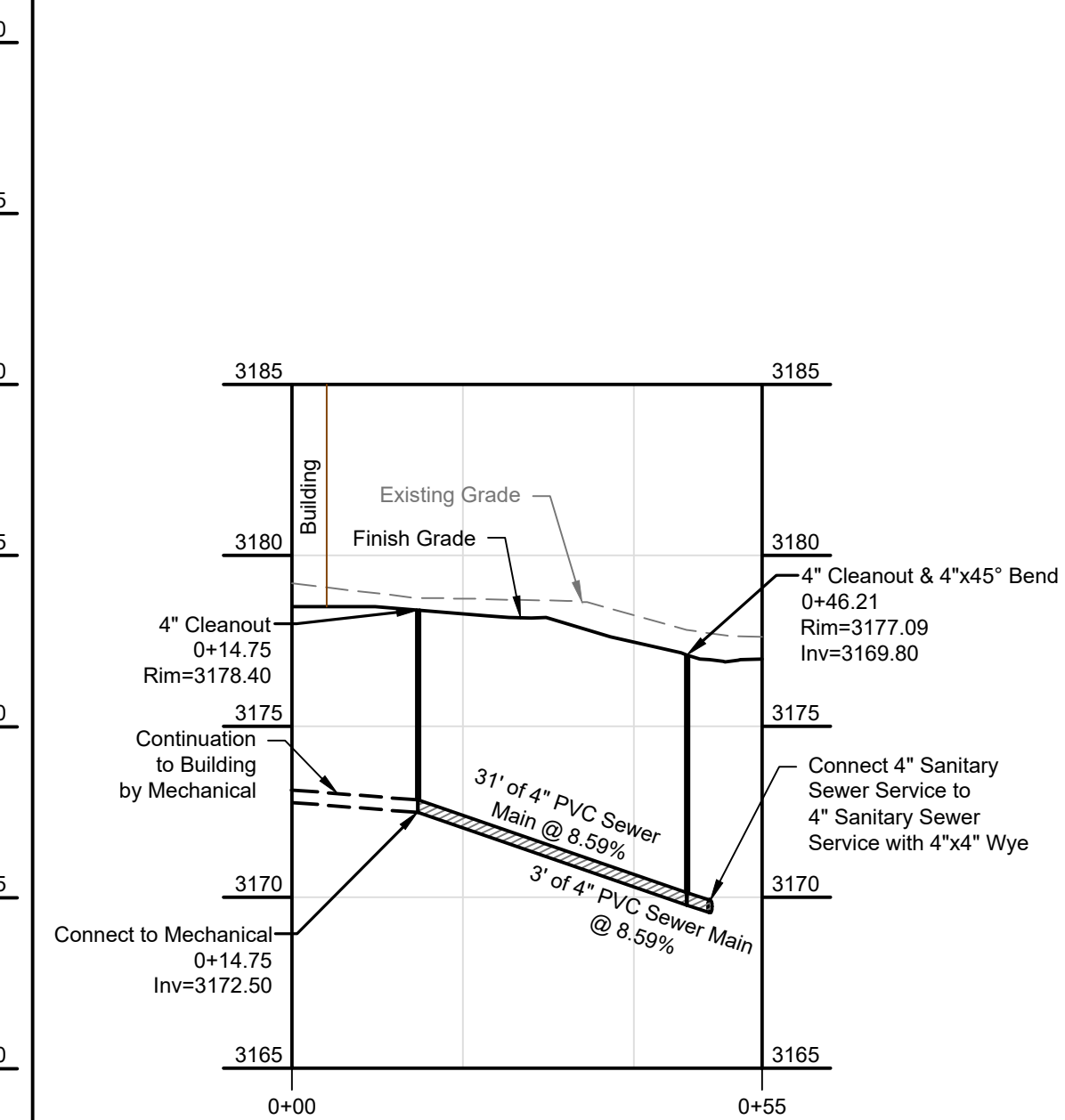
STORM SEWER CULVERT



WATER SERVICE



SANITARY SEWER SERVICE 1



SANITARY SEWER SERVICE 2

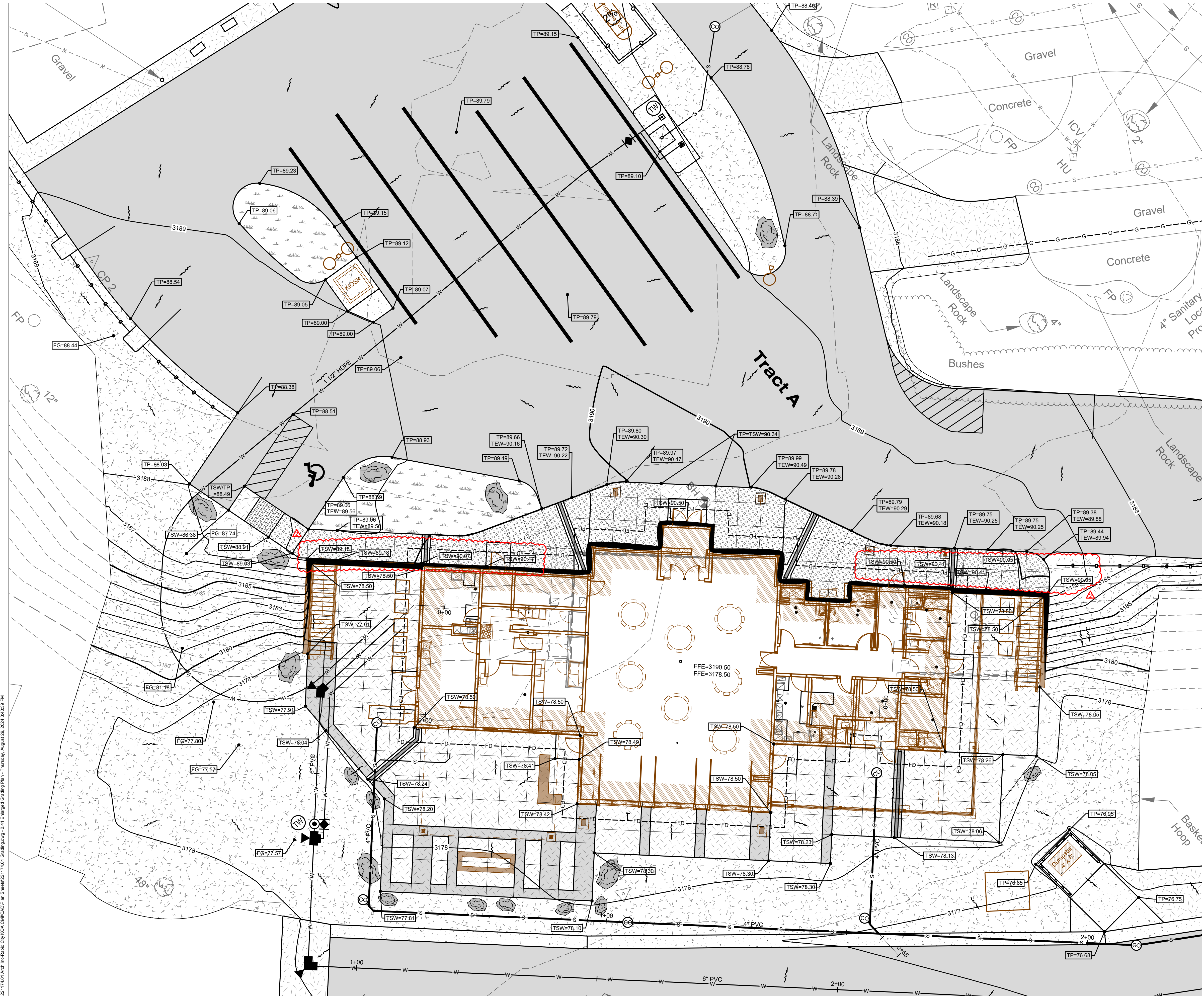
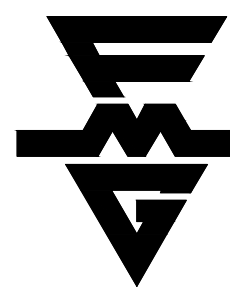
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Utility Profiles

Project

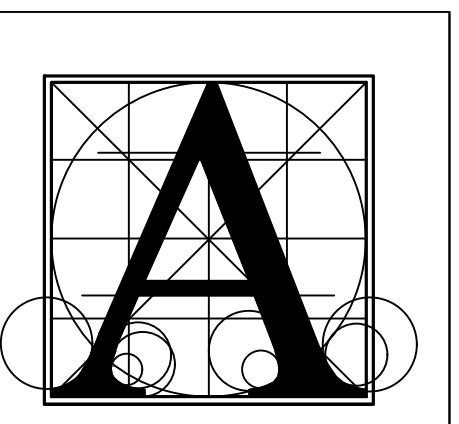
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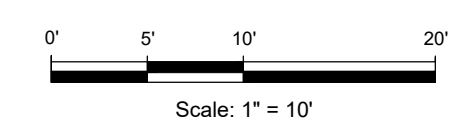
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Grading Callout Legend

- 3300 --- Existing Major Contour
- 3301 --- Existing Minor Contour
- 3300 — Finish Grade Major Contour (5')
- 3301 — Finish Grade Minor Contour (1')

FFE = Finish Floor Elevation
 TP = Top of Pavement
 TSW = Top of Sidewalk
 TEW = Top of Thickened Edge Sidewalk
 FL = Flow Line
 FG = Finish Grade
 TG = Top of Gravel

Drainage Direction Arrow



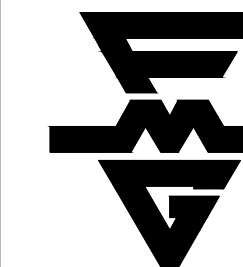
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Enlarged Grading Plan

number	3017	
date	08-02-24	
revision		
drawn	JRK checked KLH	
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2.41

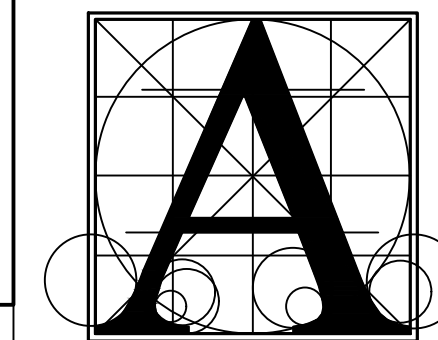
2:21:17.01 Area Inc./Rapid City KOA-ChicagoPlan Sheet#221174.01 Grading Plan - Thursday, August 29, 2024 3:40:39 PM



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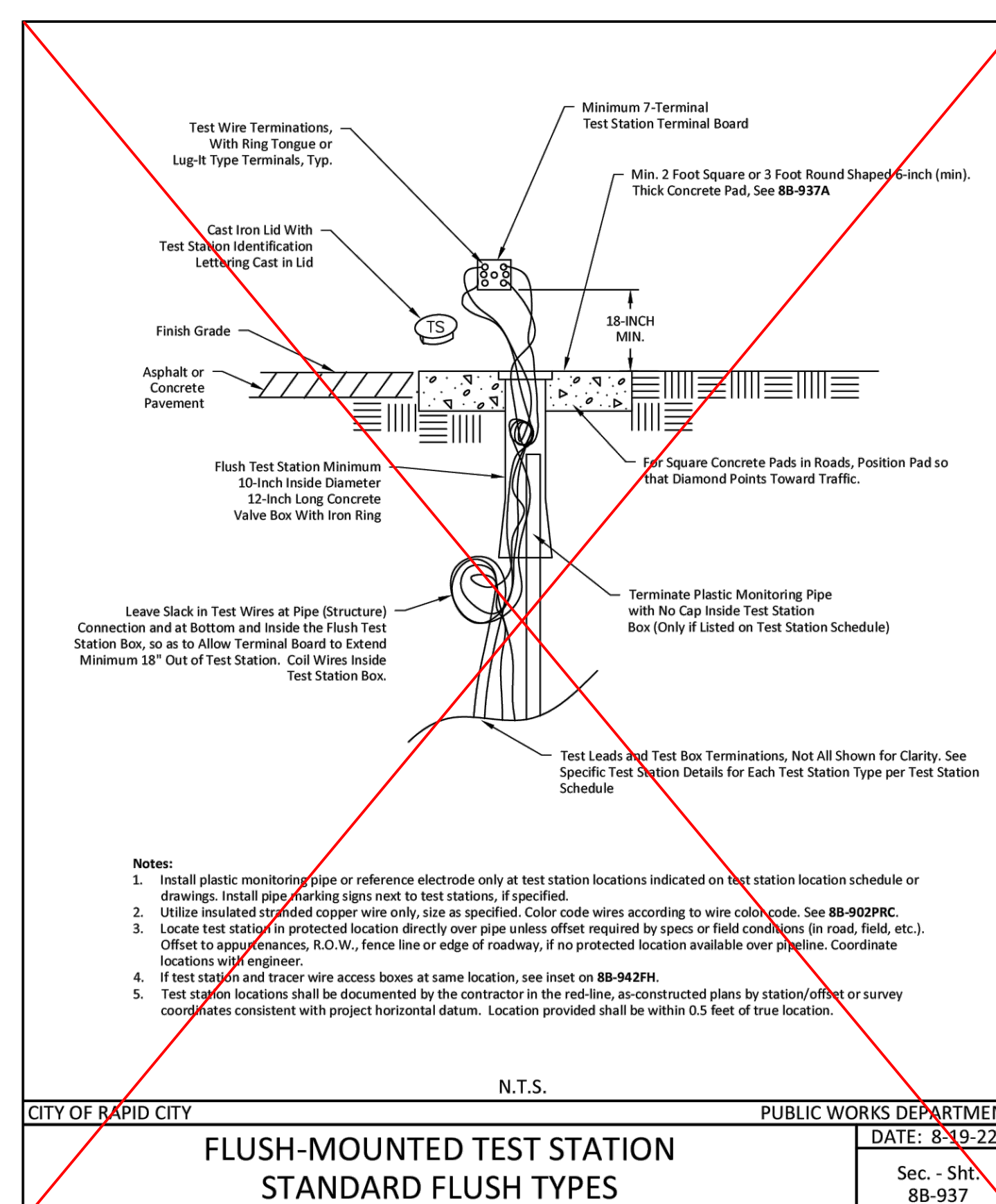
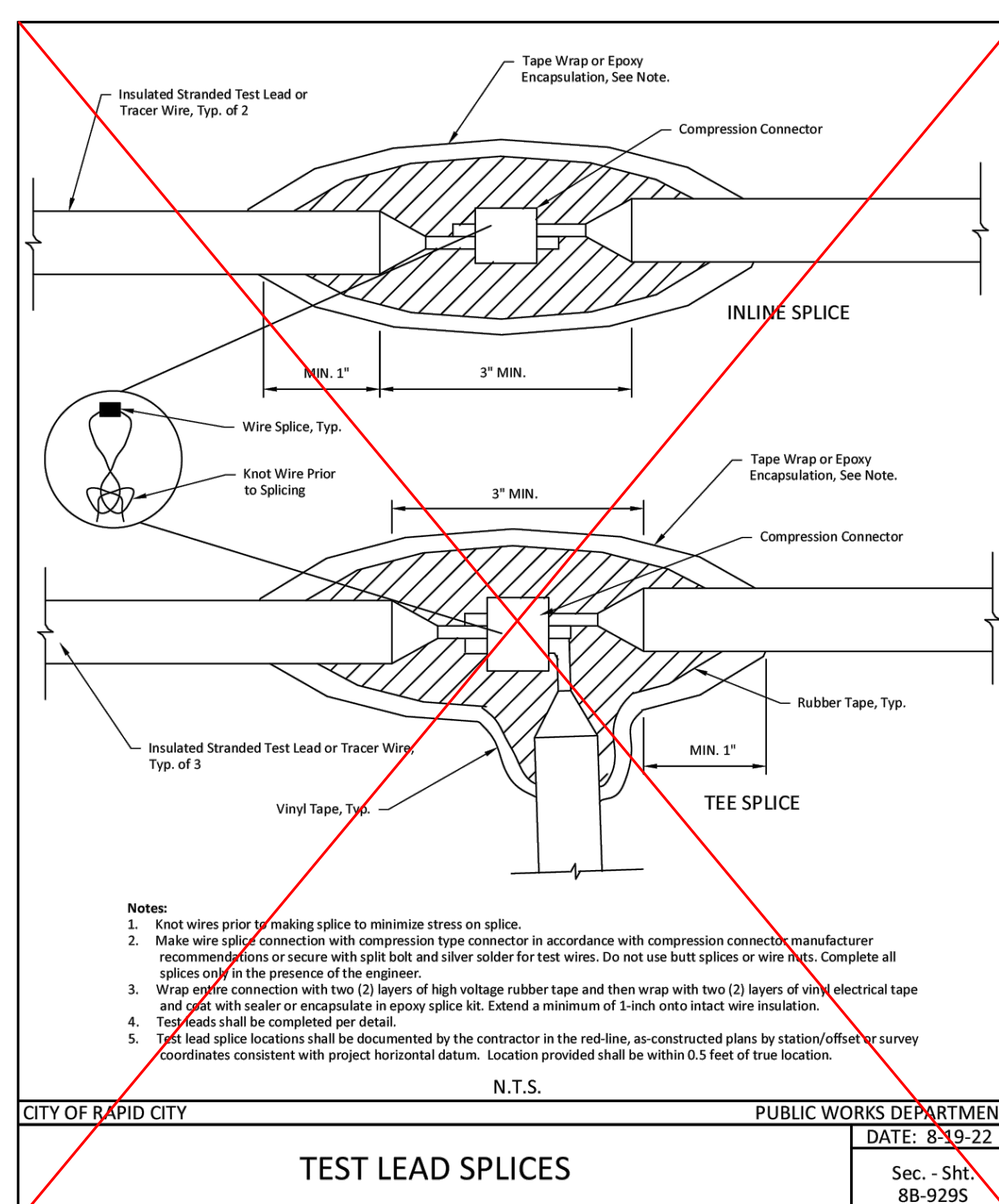
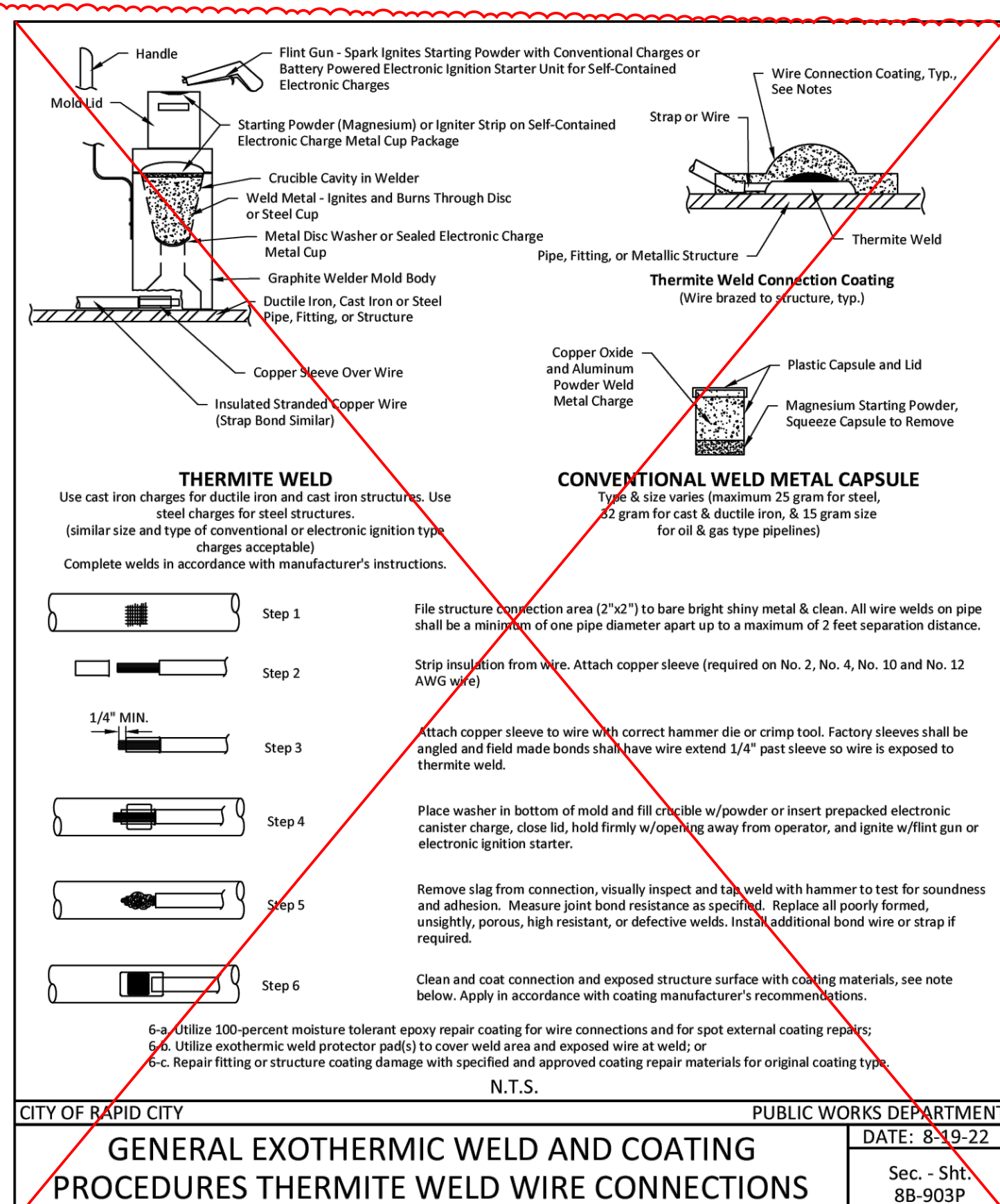
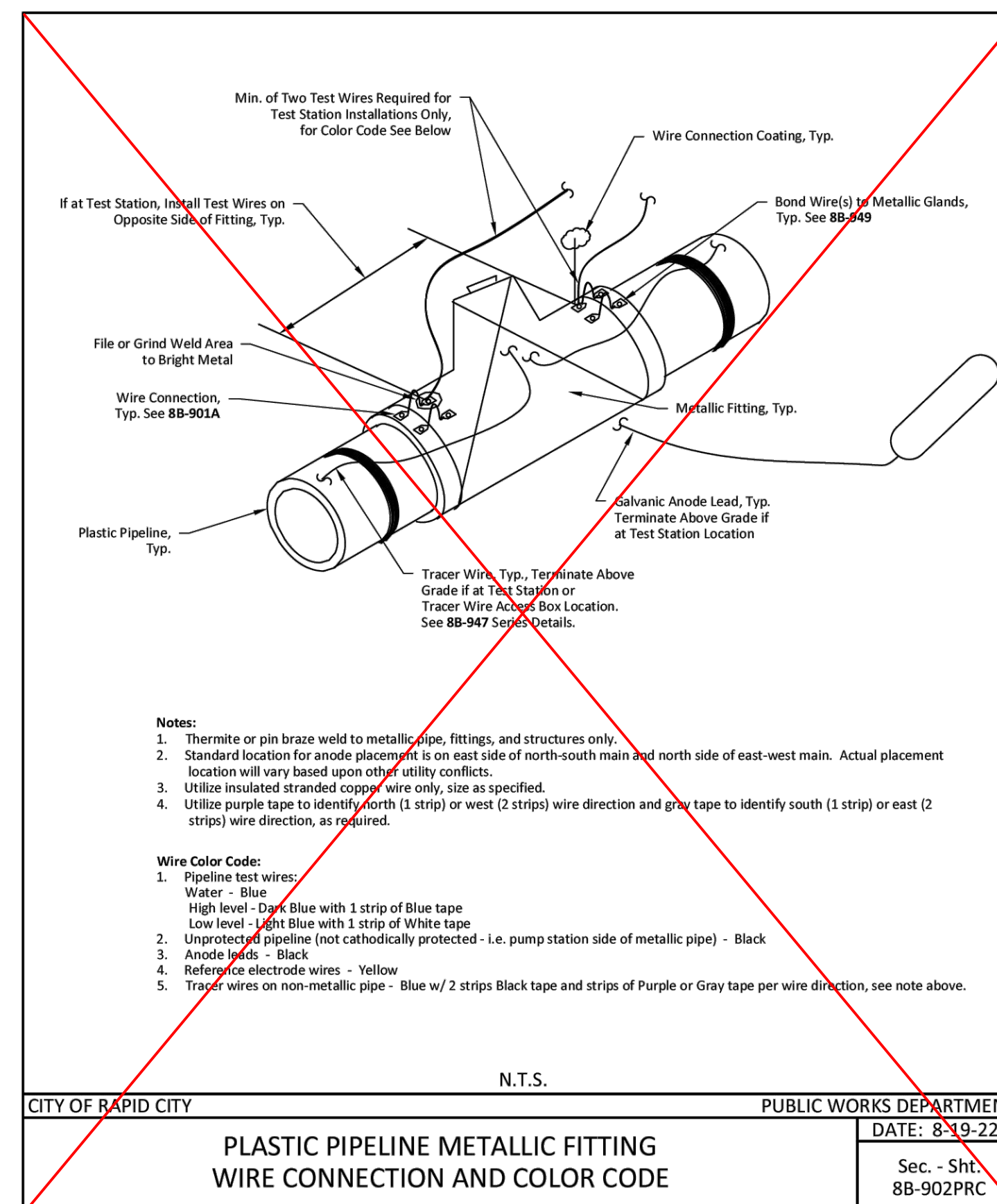
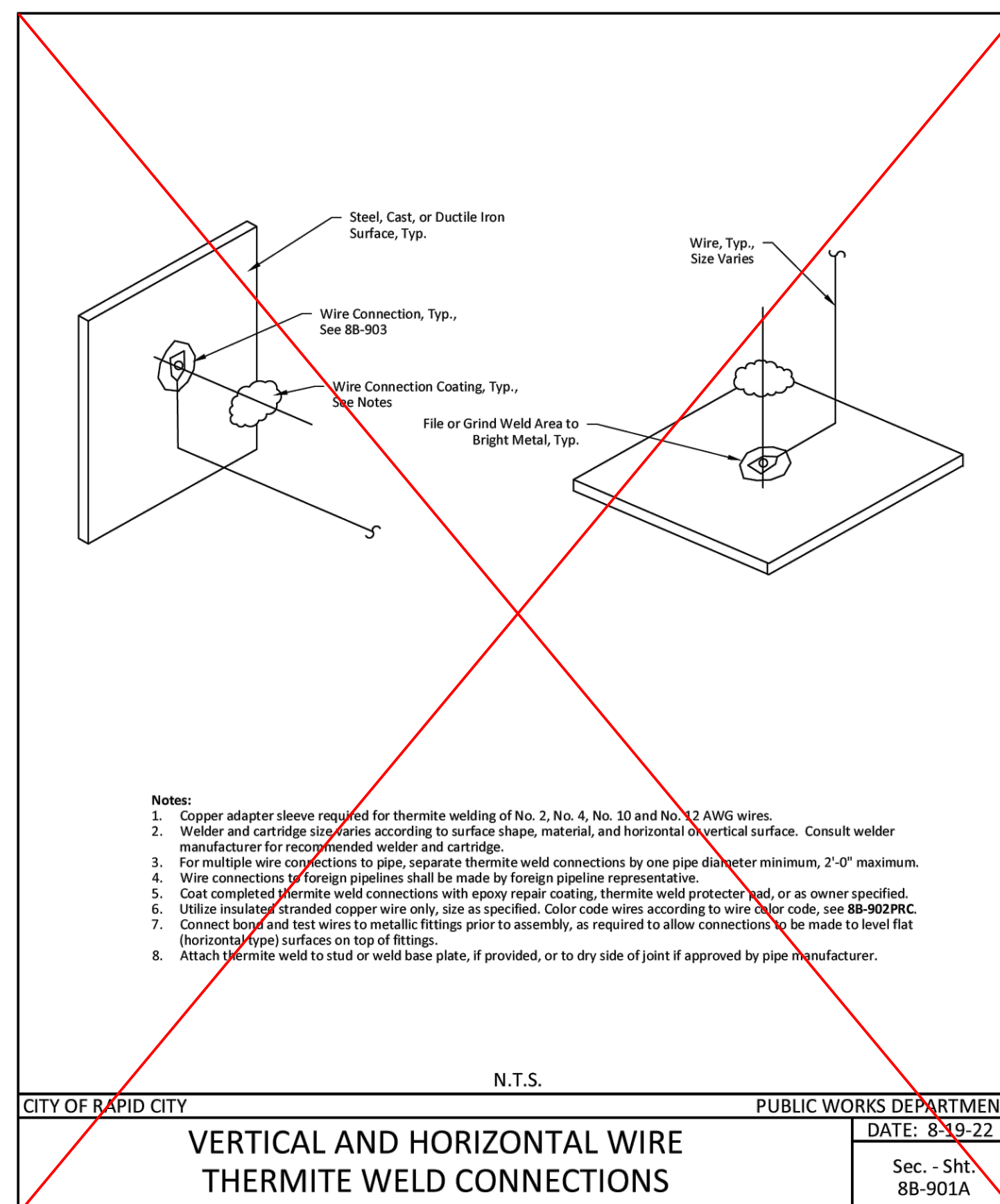
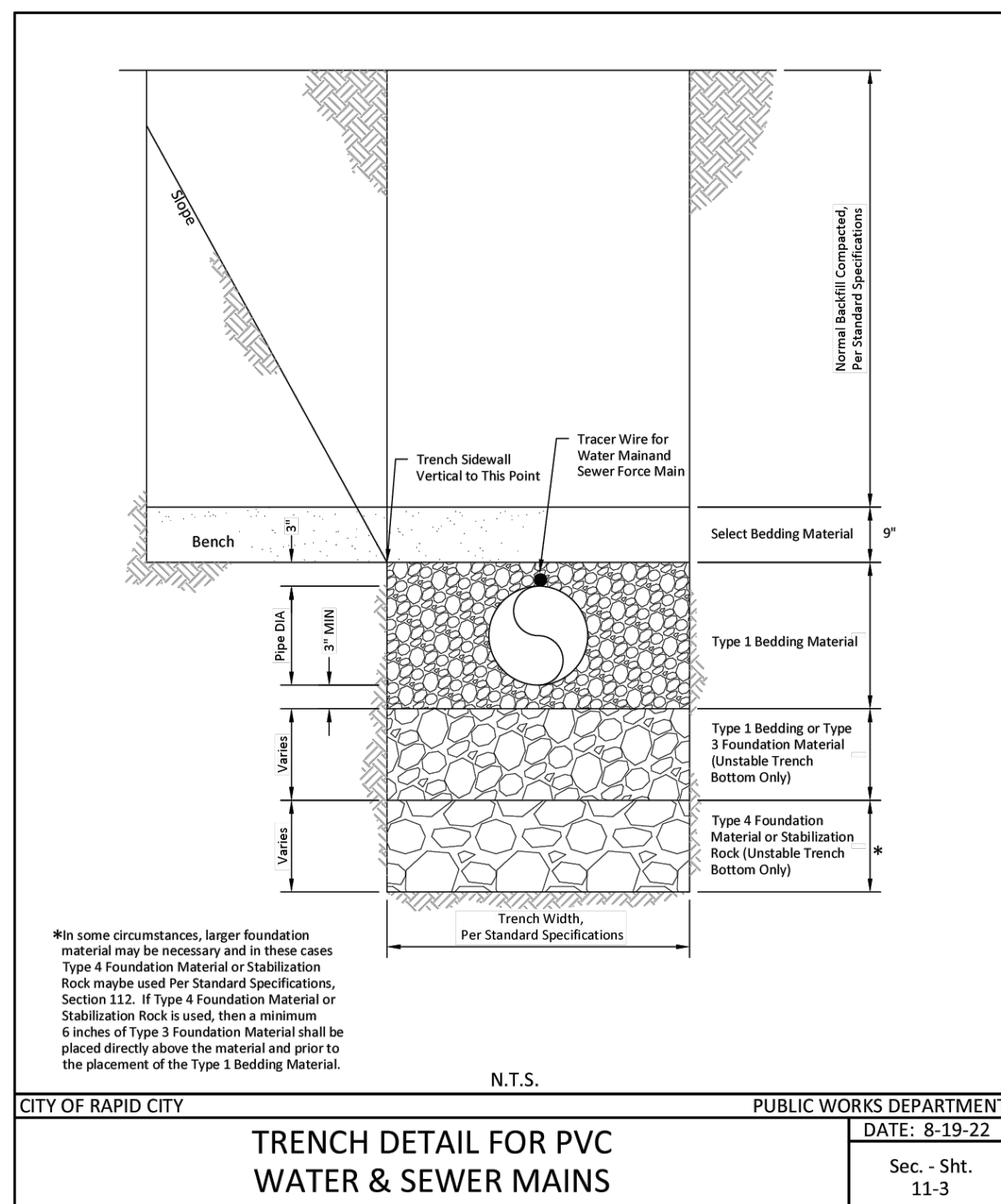
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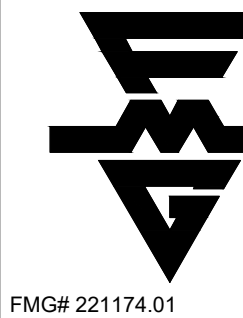
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Details
sheet contents

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date	08-02-24
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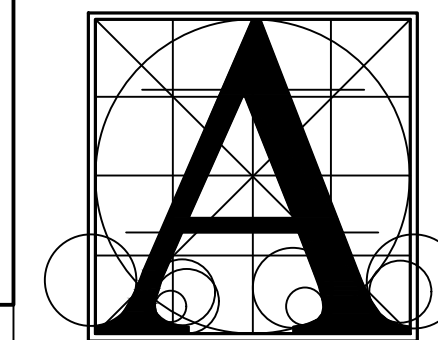
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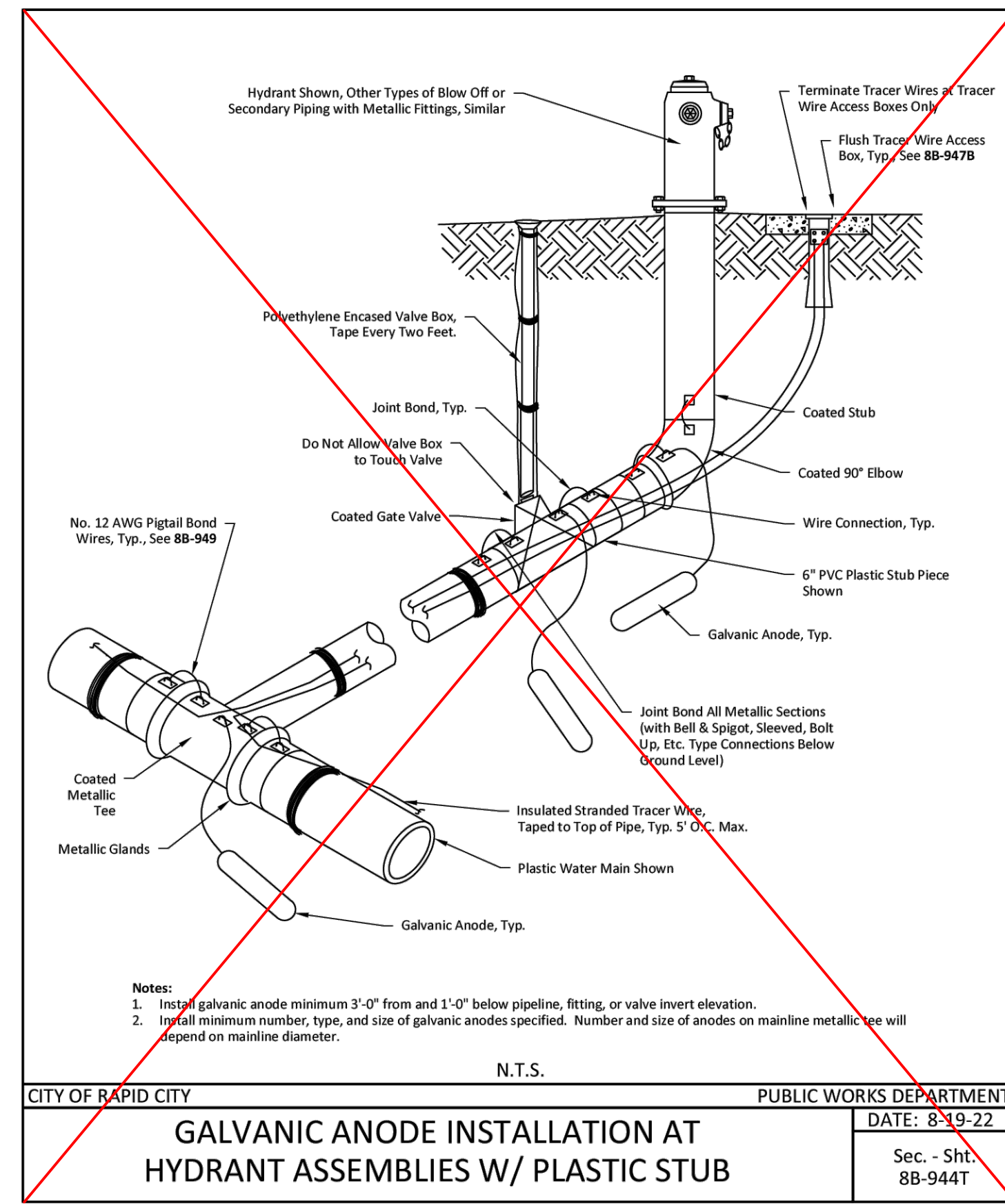
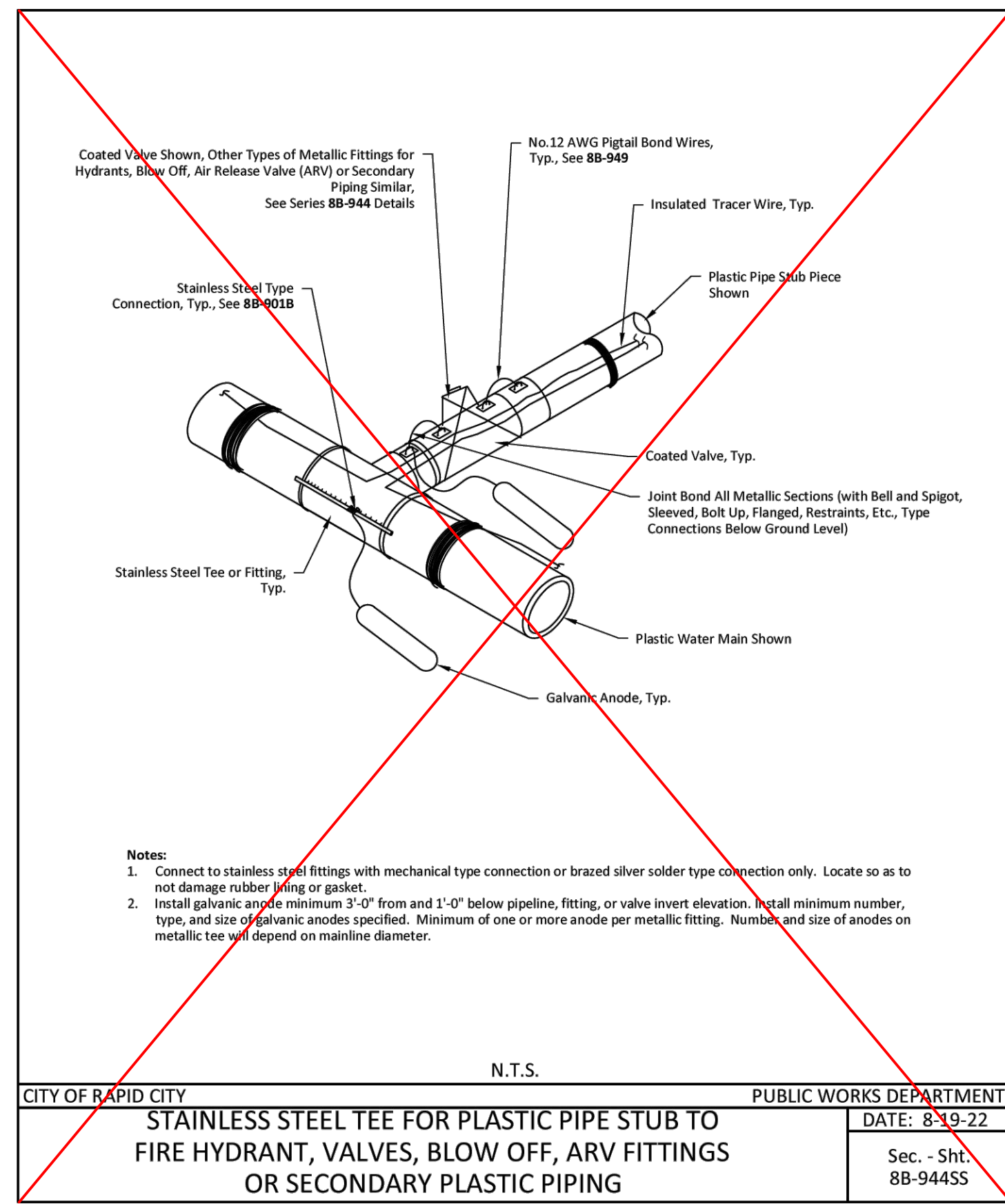
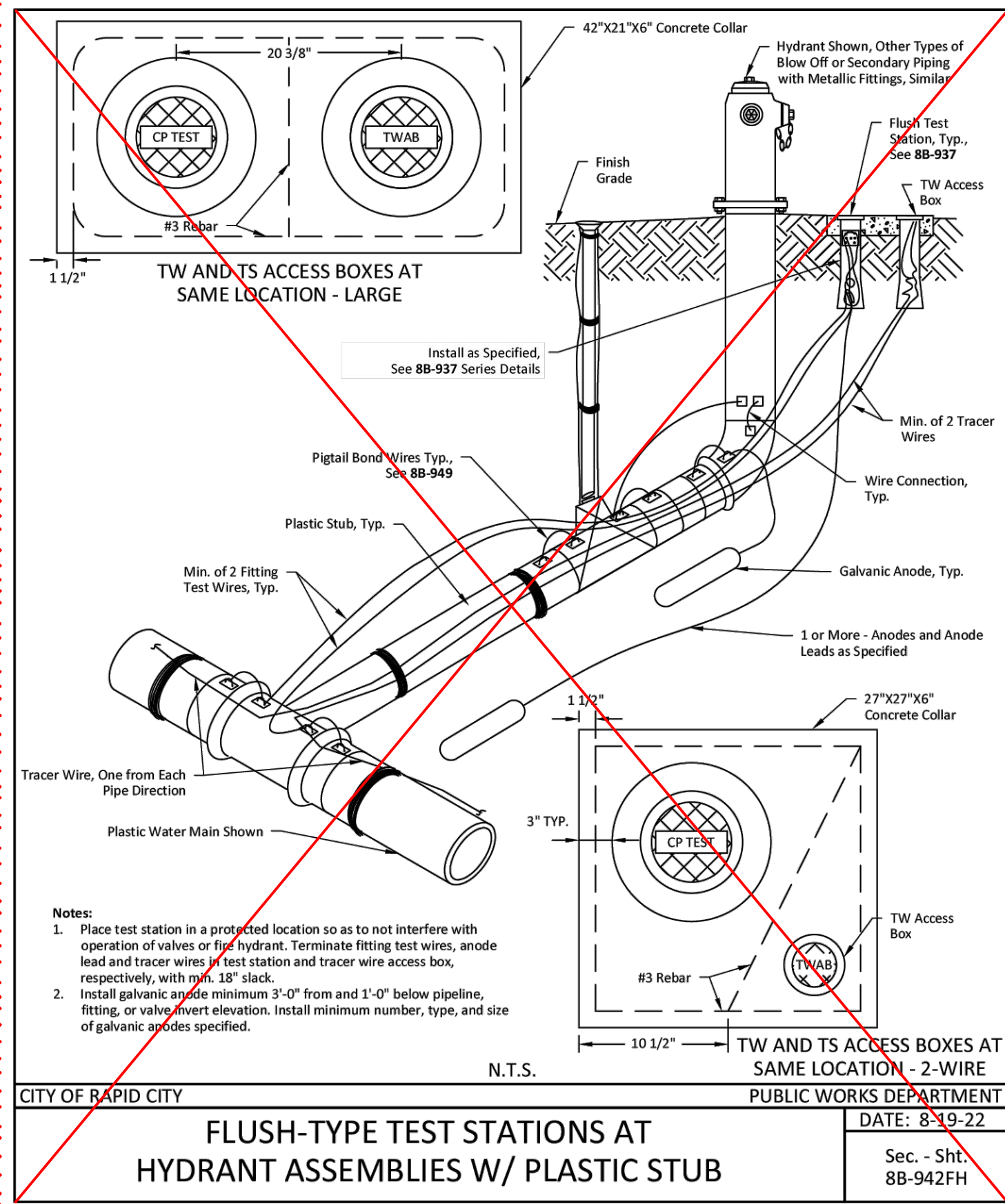
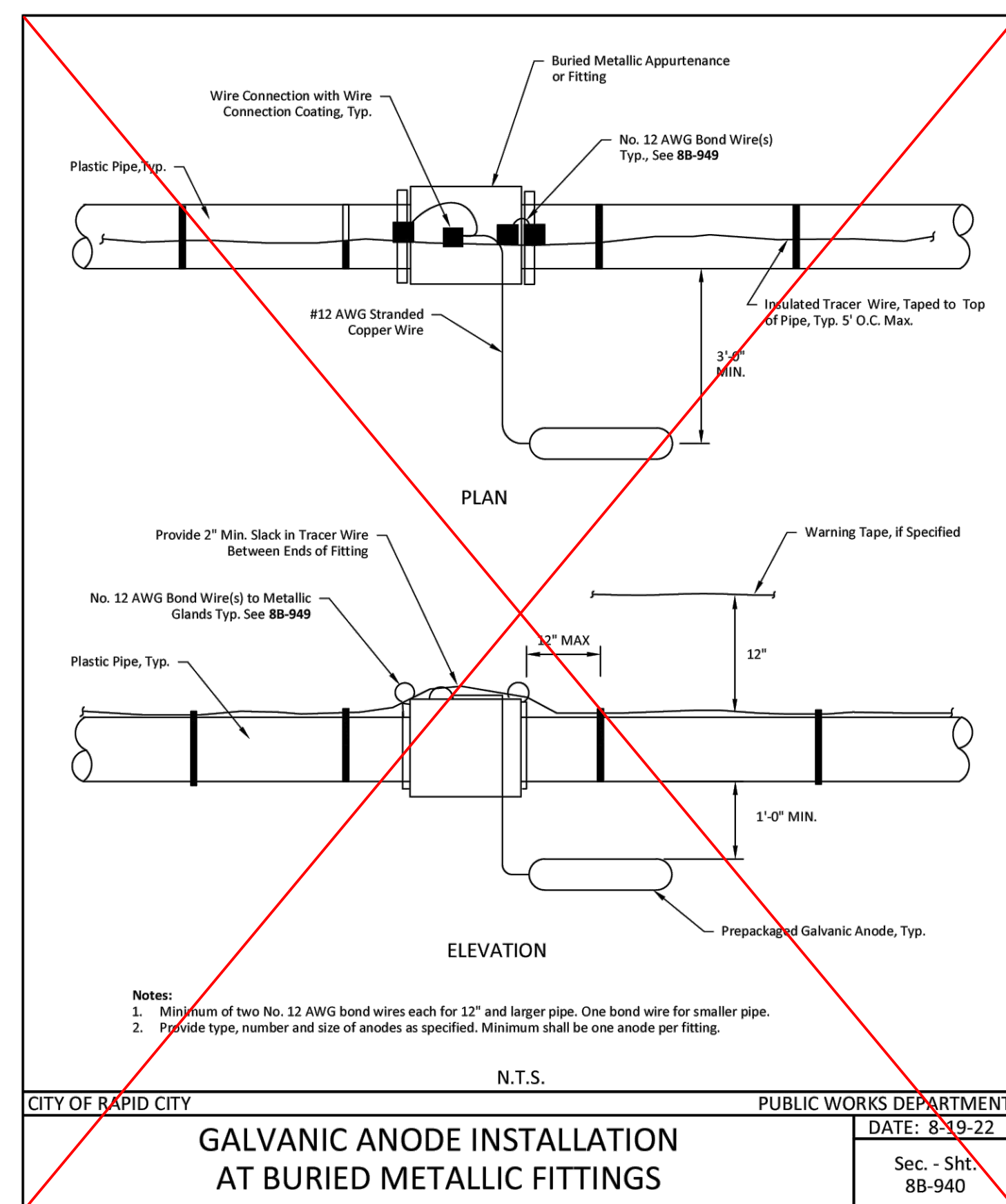
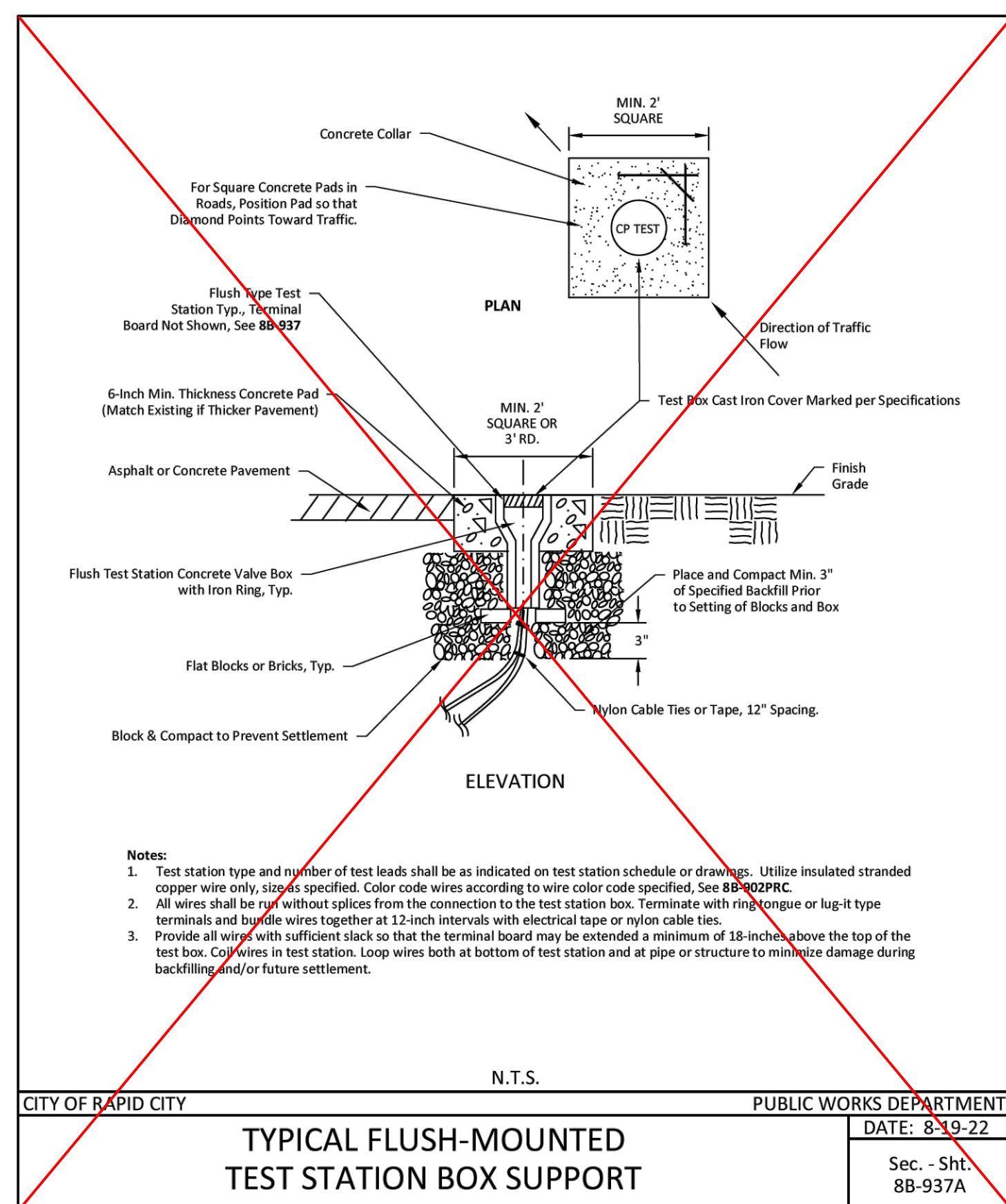
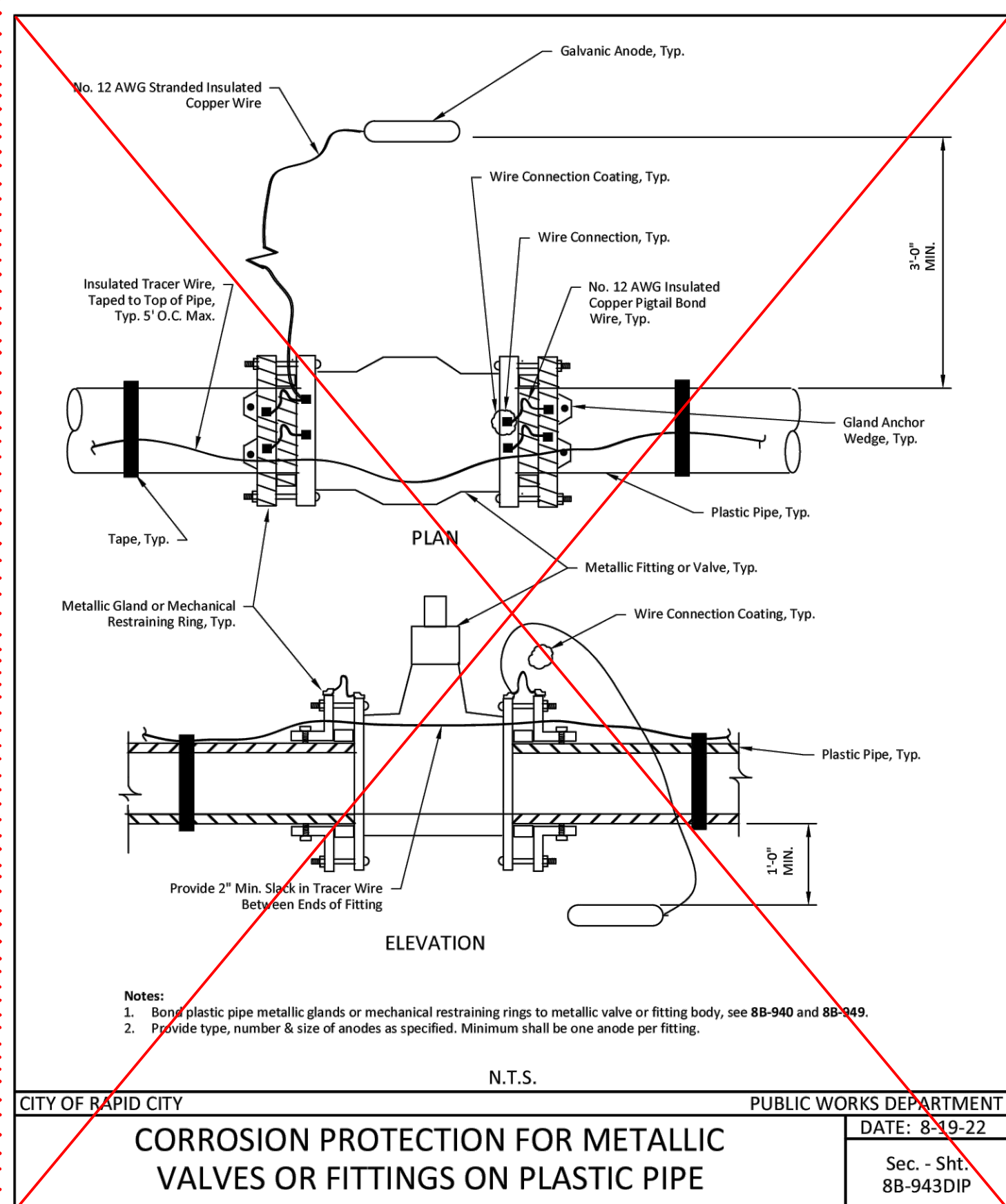
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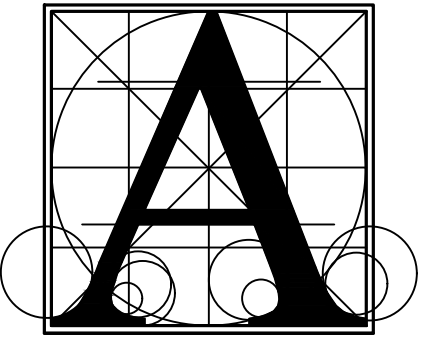


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sheet contents
Details

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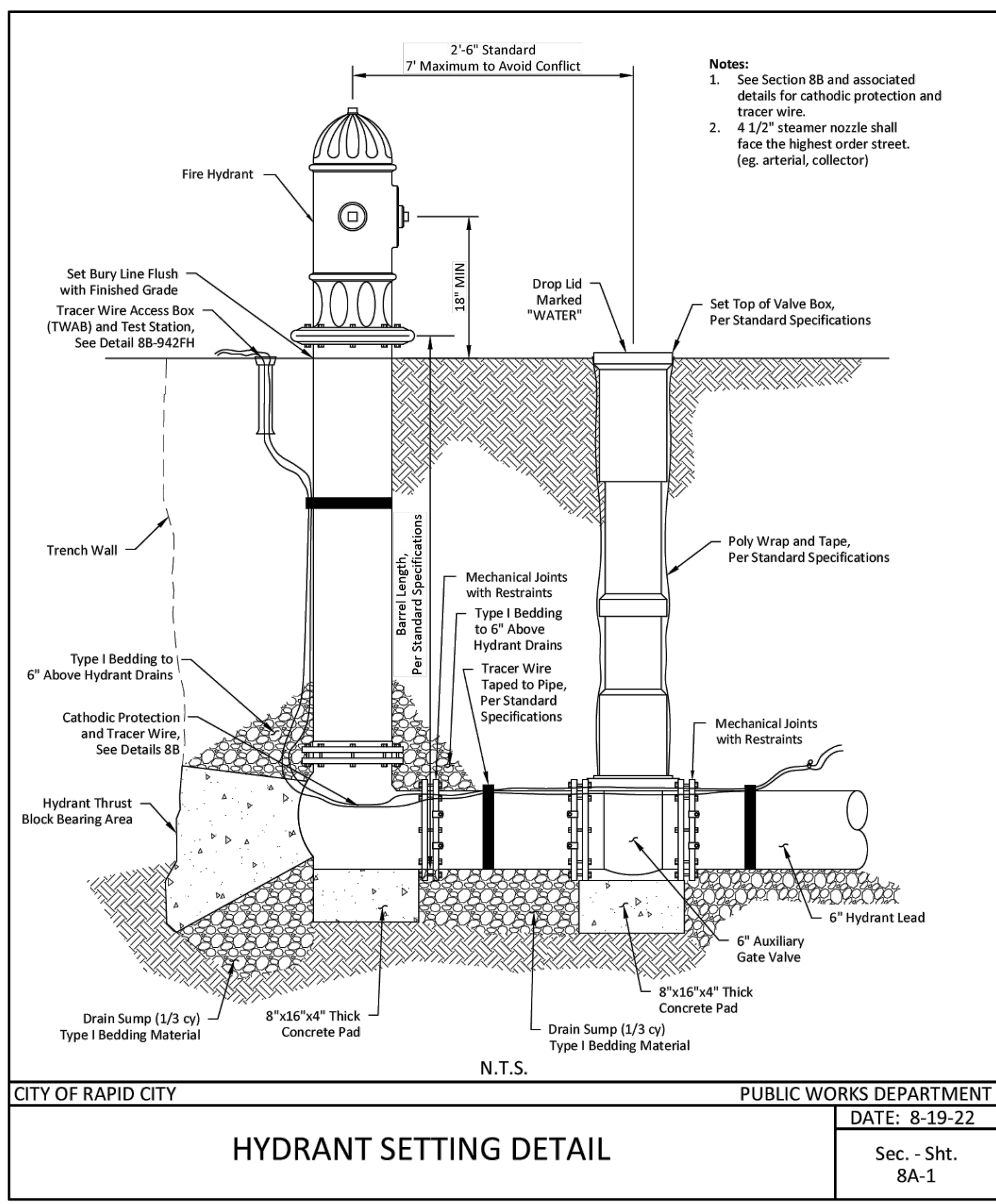
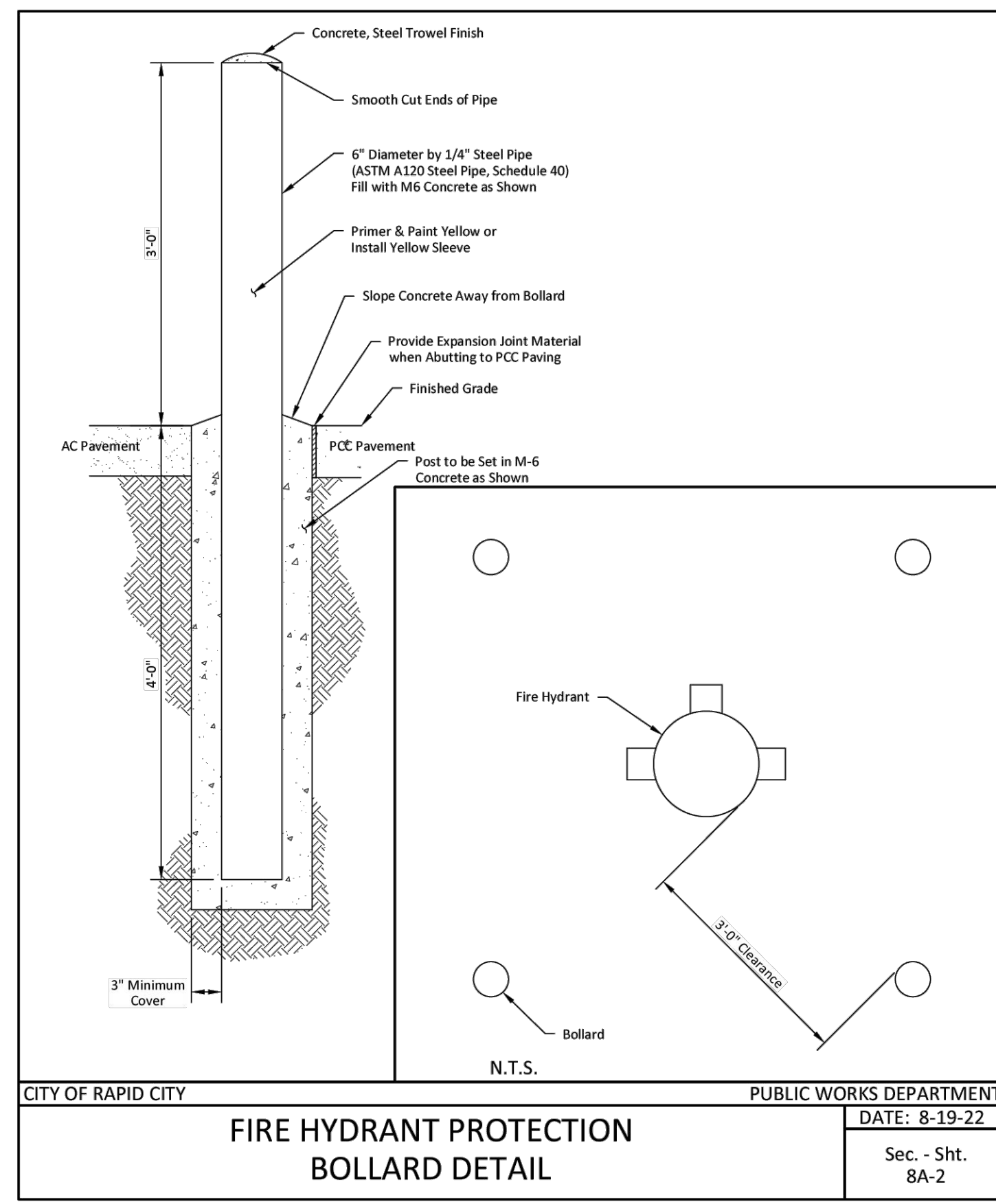
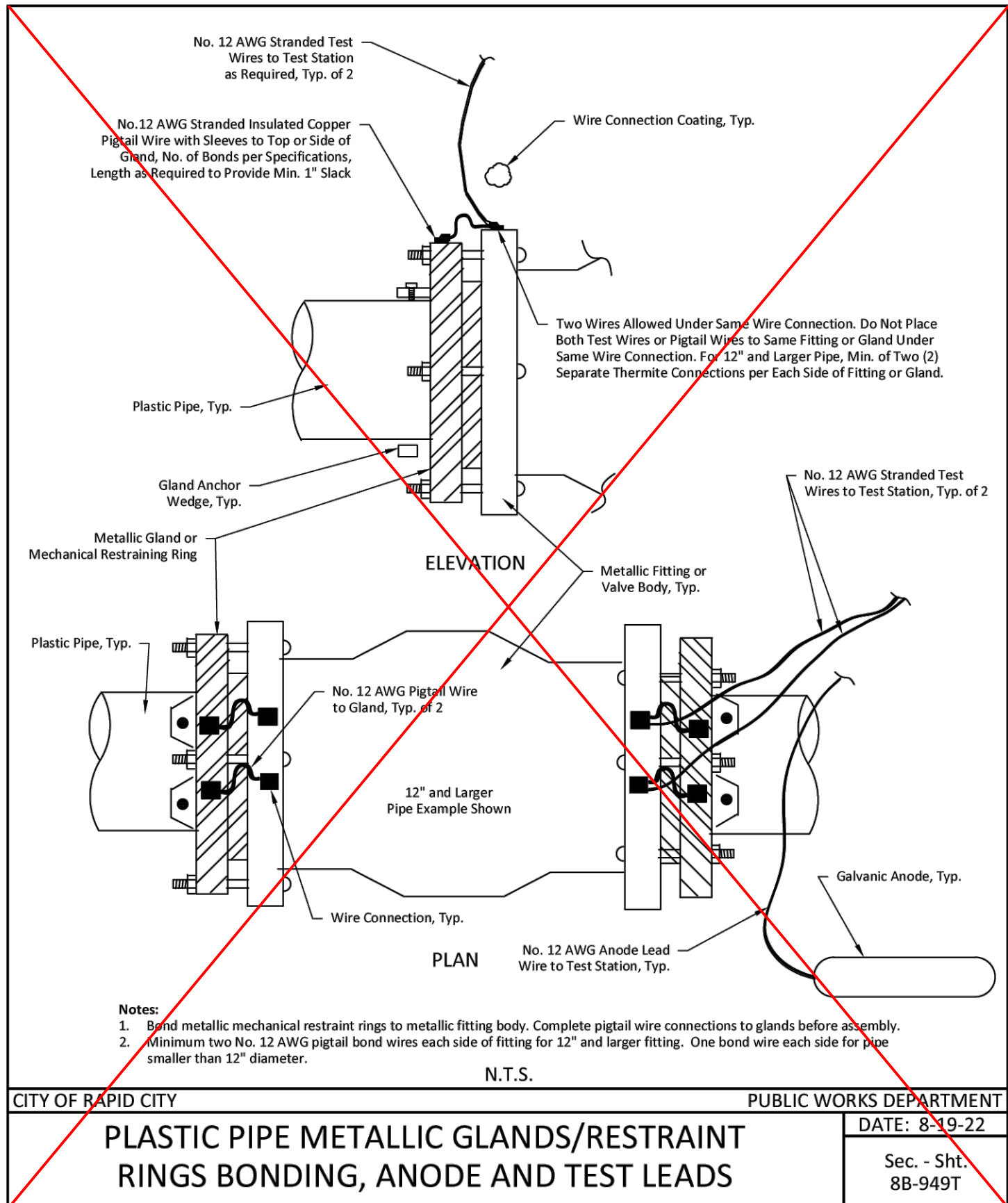
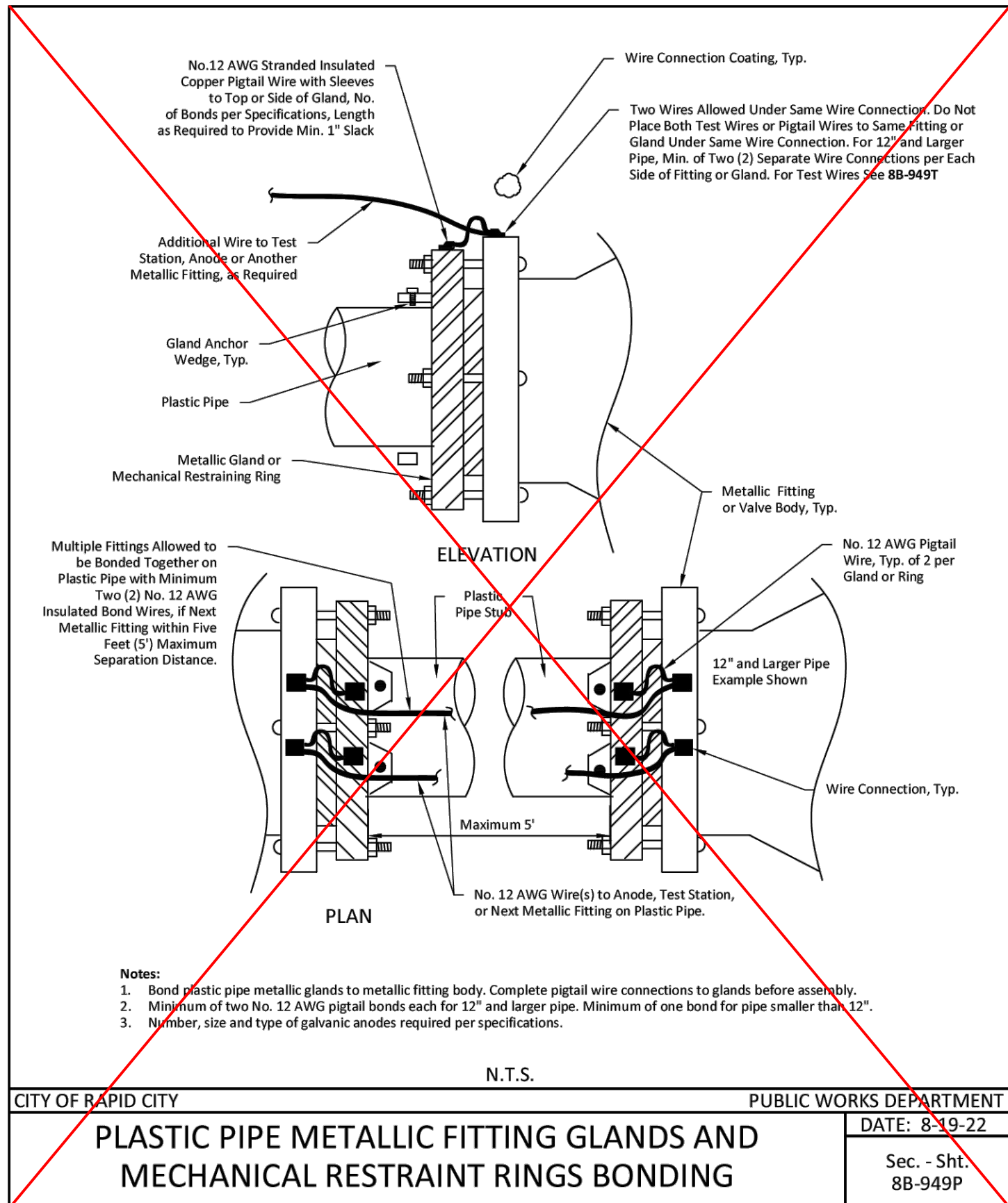
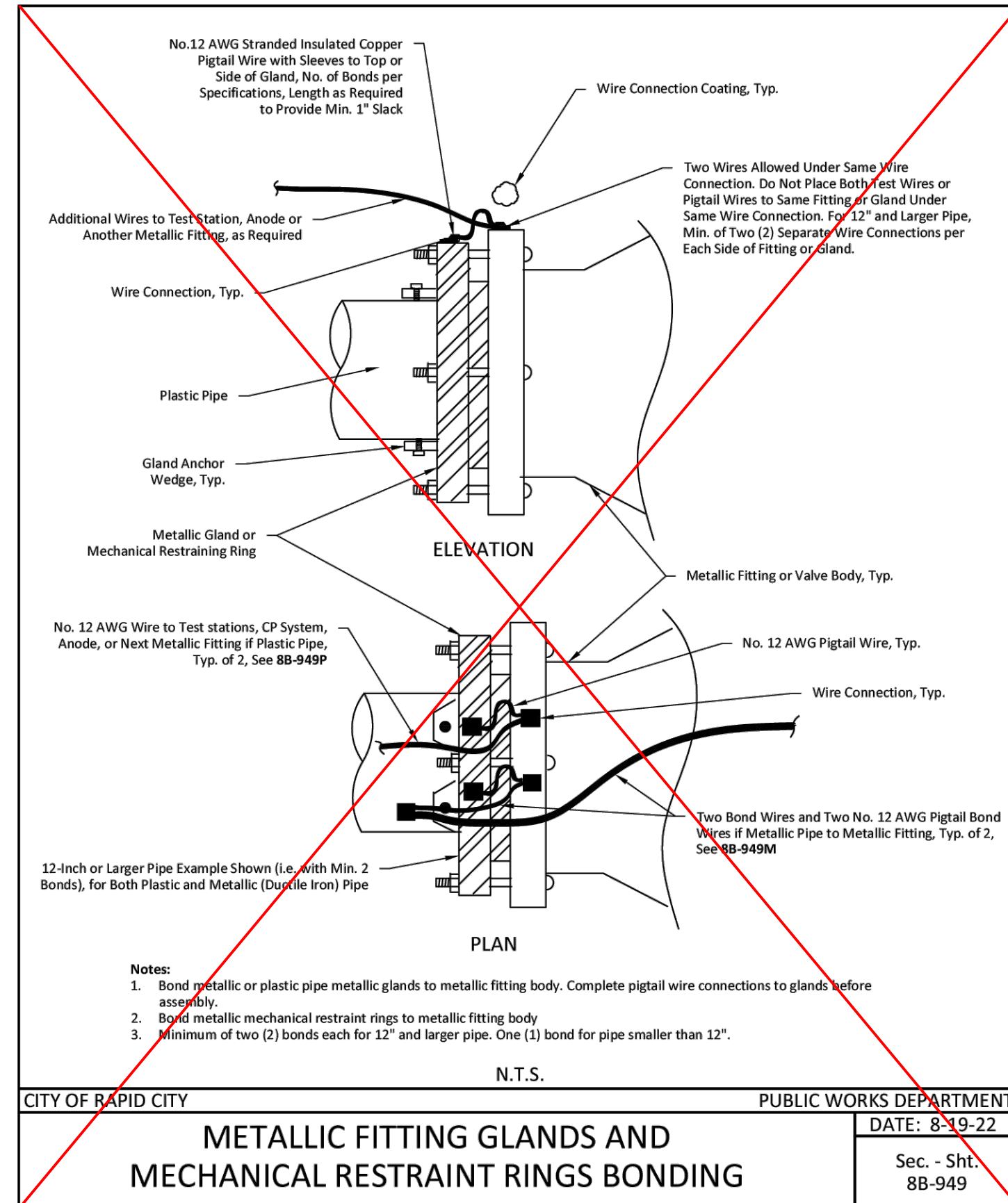


TABLE: Pounds of Thrust per fitting at 150 psi Water Pressure
 (Minimum bearing area in sq. ft. for concrete thrust block based on 150 psi and soil bearing capacity of 1000 pounds per square foot)
 [Minimum Volume (CY) of Concrete per Thrust Block]

Pipe Size	Tee & Dead End	90° Bend	45° Bend	22 1/2° Bend	11 1/4° Bend
4"	2700(2.7)[0.10]	3950(4.0)[0.15]	2090(2.09)[0.08]	1050(1.1)[0.4]	530(0.5)[0.2]
6"	5610(5.6)[0.21]	7940(7.9)[0.29]	4290(5.7)[0.16]	2190(2.2)[0.8]	1100(1.1)[0.4]
8"	9650(9.7)[0.36]	13650(13.7)[0.51]	7380(9.8)[0.28]	3760(3.8)[0.14]	1890(1.9)[0.7]
10"	14520(14.5)[0.54]	20530(20.5)[0.76]	11100(14.8)[0.41]	5670(5.7)[0.21]	2850(2.9)[0.11]
12"	20530(20.5)[0.76]	29030(29.0)[1.07]	15710(21.0)[0.58]	8010(8.0)[0.30]	4030(4.0)[0.15]
14"	27580(27.6)[1.02]	39000(39.0)[1.44]	21100(28.1)[0.78]	10770(10.8)[0.40]	5400(5.4)[0.20]
16"	35670(35.7)[1.32]	50440(50.4)[1.87]	27300(36.4)[1.01]	13920(13.9)[0.52]	6990(7.0)[0.26]
20"	54970(55.0)[2.03]	77740(77.7)[2.88]	42080(56.1)[1.56]	21450(21.5)[0.79]	10780(10.8)[0.40]

THRUST BLOCK DETAILS (150 psi)
 Not To Scale

WATER MAIN JOINT AND FITTING RESTRAINT
 All valves, fittings and pipe joints within the specified restrained length of a valve or fitting shall be restrained using the EBBA, or equal, restraining systems. Restrained lengths were calculated based on a test pressure of 150 psi.

Main Line Valves:

Size	Restrained Length
4"	23 ft. both sides
6"	32 ft. both sides
8"	42 ft. both sides

Plugs:

Size	Restrained Length
4"	23 ft.
6"	32 ft.
8"	42 ft.

Tees: (6' Restrained Length on Mainline unless stated otherwise)

Size	Restrained Length
4" x 4" x 4"	1 ft. on branch
6" x 6" x 4"	1 ft. on branch
6" x 6" x 6"	1 ft. on branch
8" x 4" x 4"	1 ft. on branch
8" x 6" x 6"	1 ft. on branch
8" x 8" x 8"	3 ft. on branch

Reducers:

Size	Restrained Length
6" x 4"	17 ft. on Large Pipe
8" x 4"	31 ft. on Large Pipe
8" x 6"	18 ft. on Large Pipe

Horizontal Bends:

Size	Restrained Length
4" x 11 1/4"	1 ft.
4" x 22 1/2"	2 ft.
4" x 45"	3 ft.
4" x 90"	8 ft.
6" x 11 1/4"	1 ft.
6" x 22 1/2"	2 ft.
6" x 45"	5 ft.
6" x 90"	11 ft.
8" x 11 1/4"	1 ft.
8" x 22 1/2"	3 ft.
8" x 45"	6 ft.
8" x 90"	14 ft.

Vertical Bends:

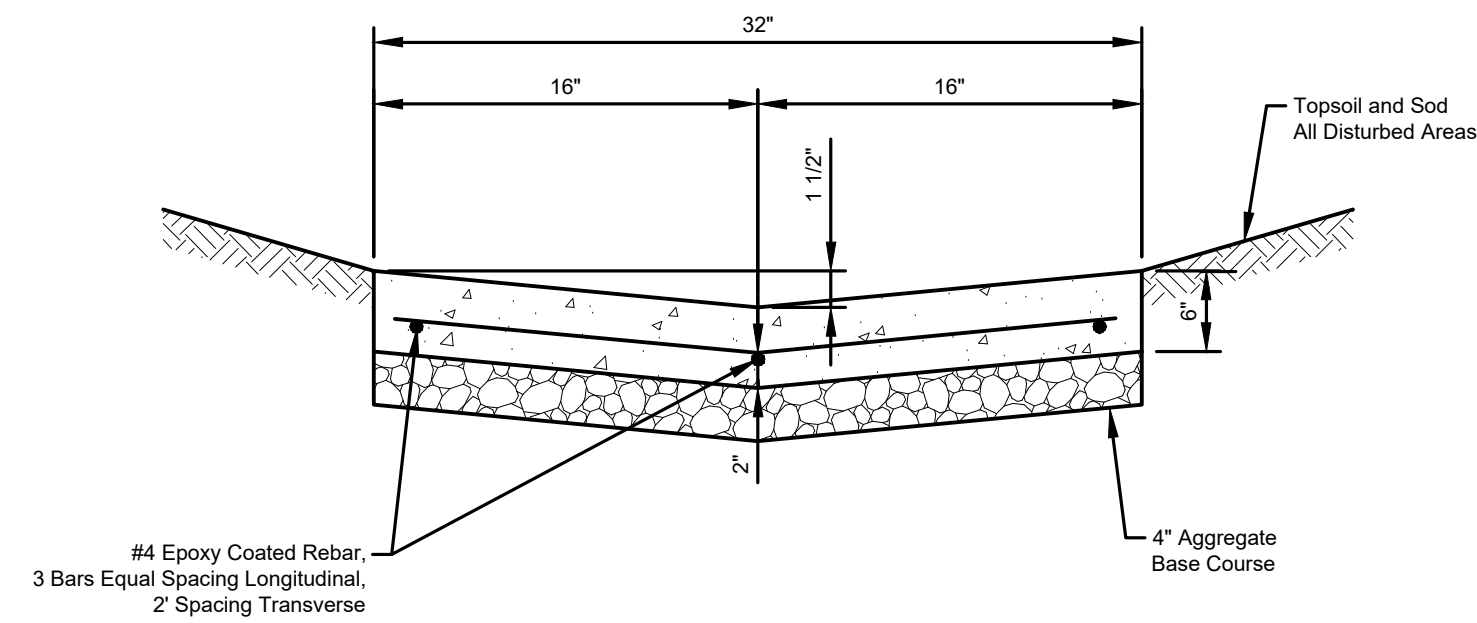
Size	Lower Bend	Upper Bend
4" x 11 1/4"	1 ft.	3 ft.
4" x 22 1/2"	2 ft.	6 ft.
4" x 45"	4 ft.	13 ft.
6" x 11 1/4"	1 ft.	4 ft.
6" x 22 1/2"	3 ft.	9 ft.
6" x 45"	6 ft.	18 ft.
8" x 11 1/4"	2 ft.	6 ft.
8" x 22 1/2"	4 ft.	11 ft.
8" x 45"	8 ft.	24 ft.

JOINT RESTRAINT TABLE - 150 PSI
 Not To Scale

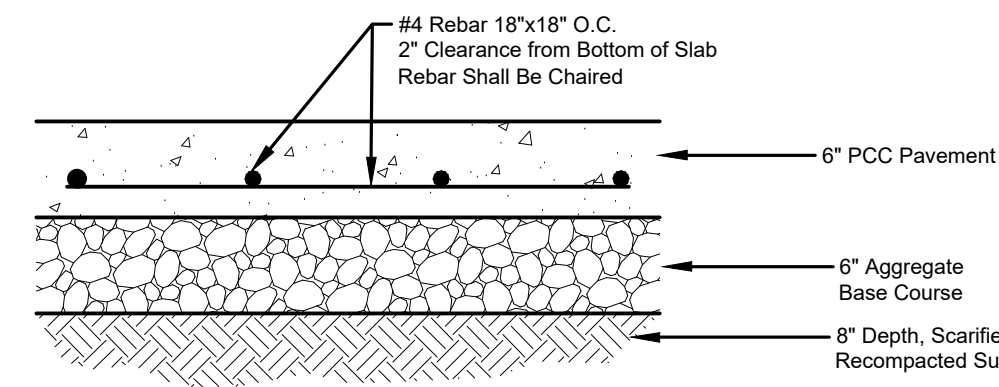
KOA - RAPID CITY OFFICE
 Project sheet contents Details

number	3017	
date	08-02-24	
revision		
drawn	JRK	
checked	KLH	
NO.	DATE	DESCRIPTION
1	8-30-24	Addendum #2

2.74

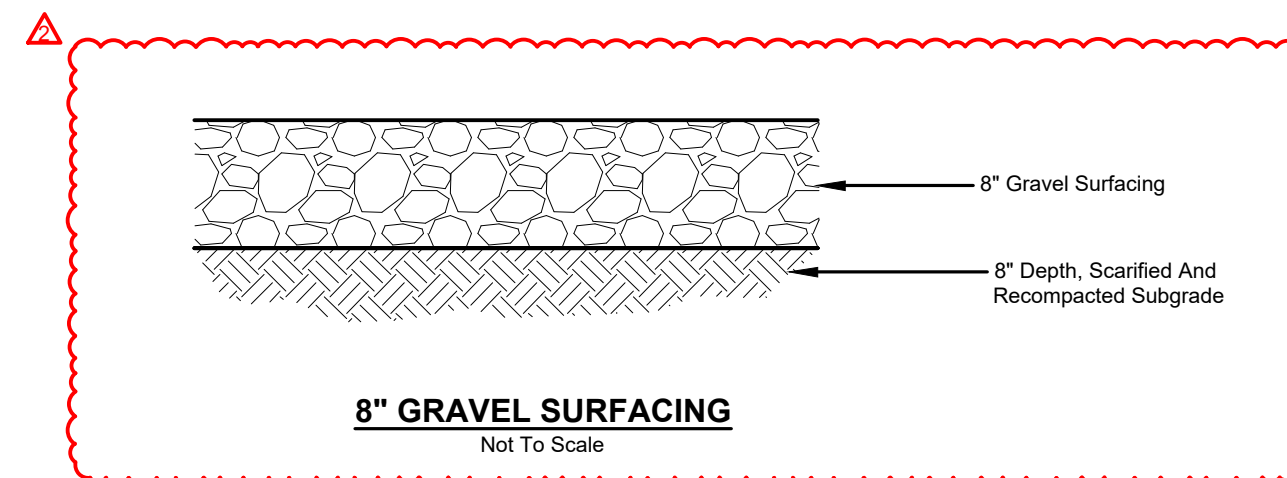


CONCRETE DRAIN PAN
Not To Scale

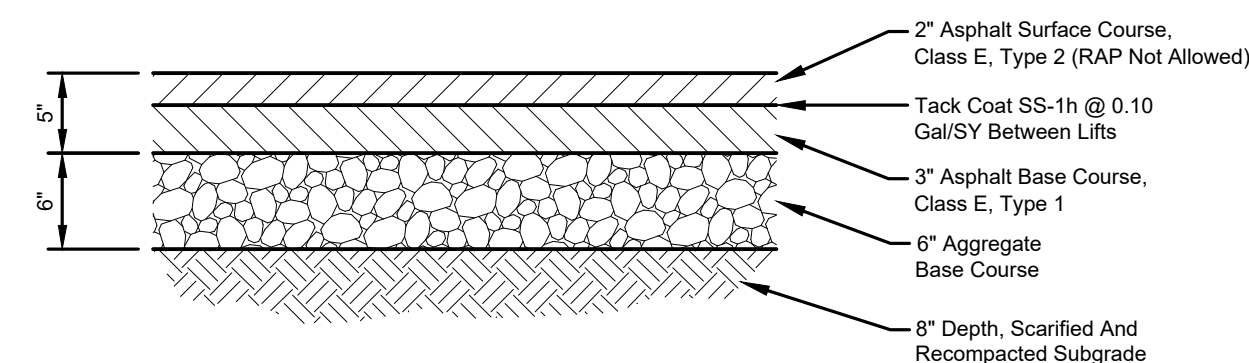


6" REINFORCED PCC PAVEMENT
Not To Scale

Note:
Saw joints to provide a pattern to not exceed 12' joint spacing, provide joint layout for approval.



8" GRAVEL SURFACING
Not To Scale

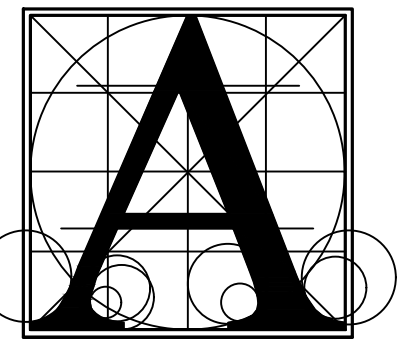


ASPHALT PAVEMENT
Not To Scale

Asphalt Binder PG 64-22
15% Maximum RAP Allowed in Type 1 Only

FMG ENGINEERING
3700 Sturgis Road
Rapid City, SD 57702
605.342.4105 • fmgengineering.com

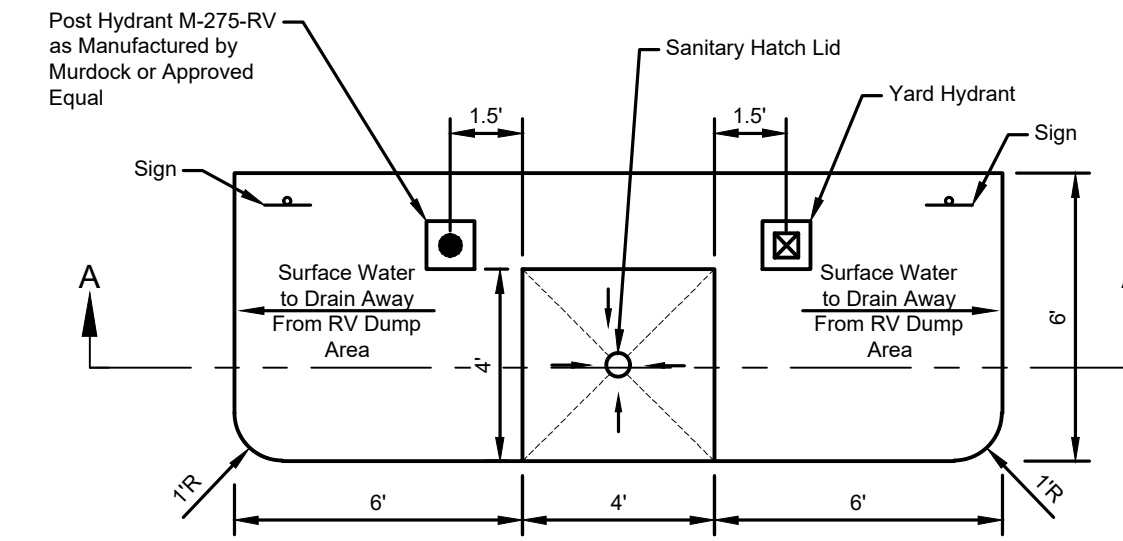
FMG# 221174.01



Architecture Incorporated

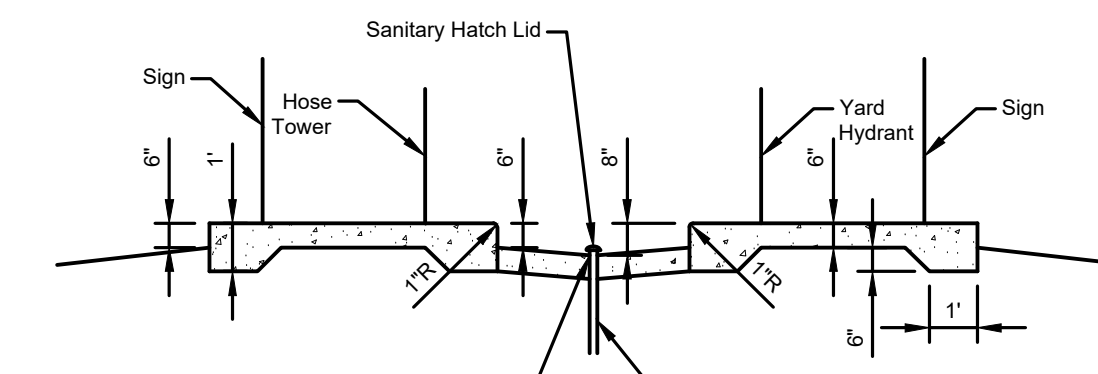
415 South Main Avenue
P.O. Box 2140
Sioux Falls, South Dakota
57101 (605) 339-1711

508 7th Street, Suite 200
Rapid City, South Dakota
57701 (605) 721-1158



PLAN VIEW

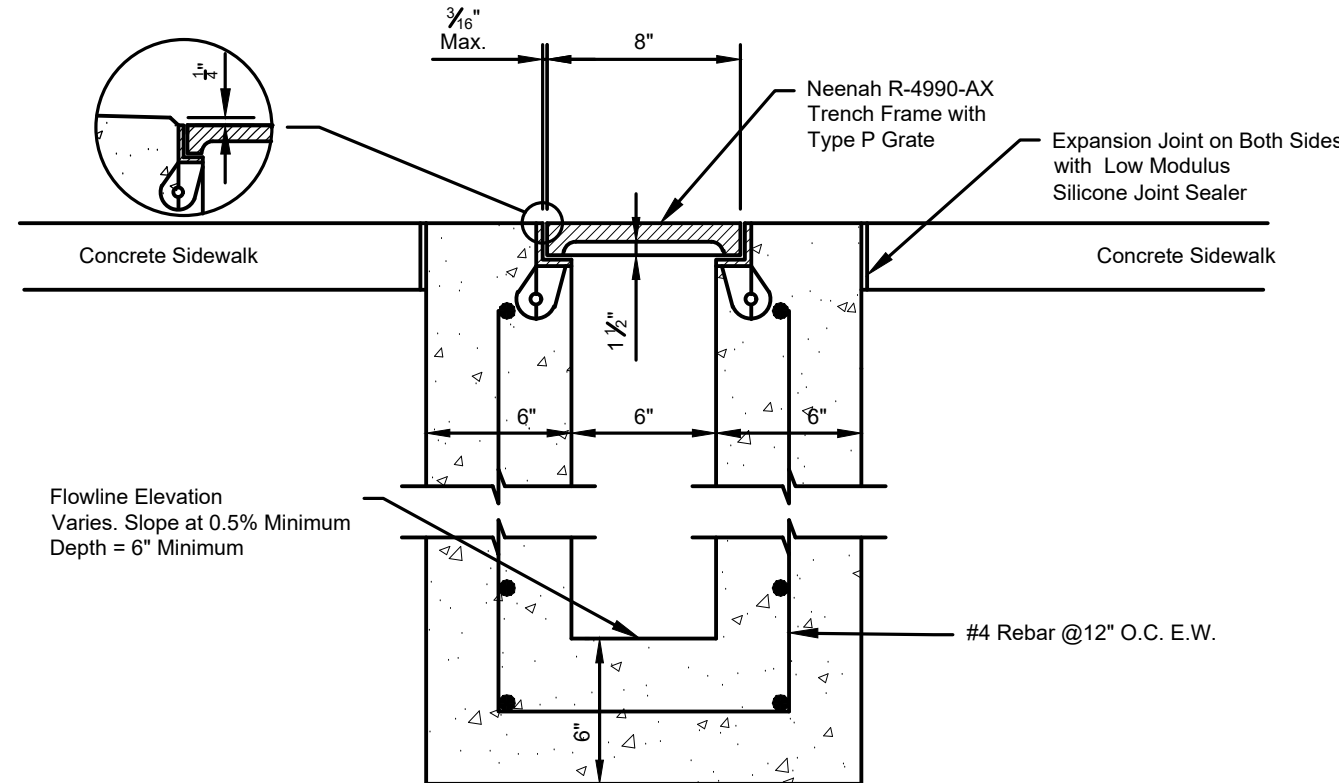
Sign Note:
Contractor to Provide Sign Post in Concrete Per CORC Detail 90-1b



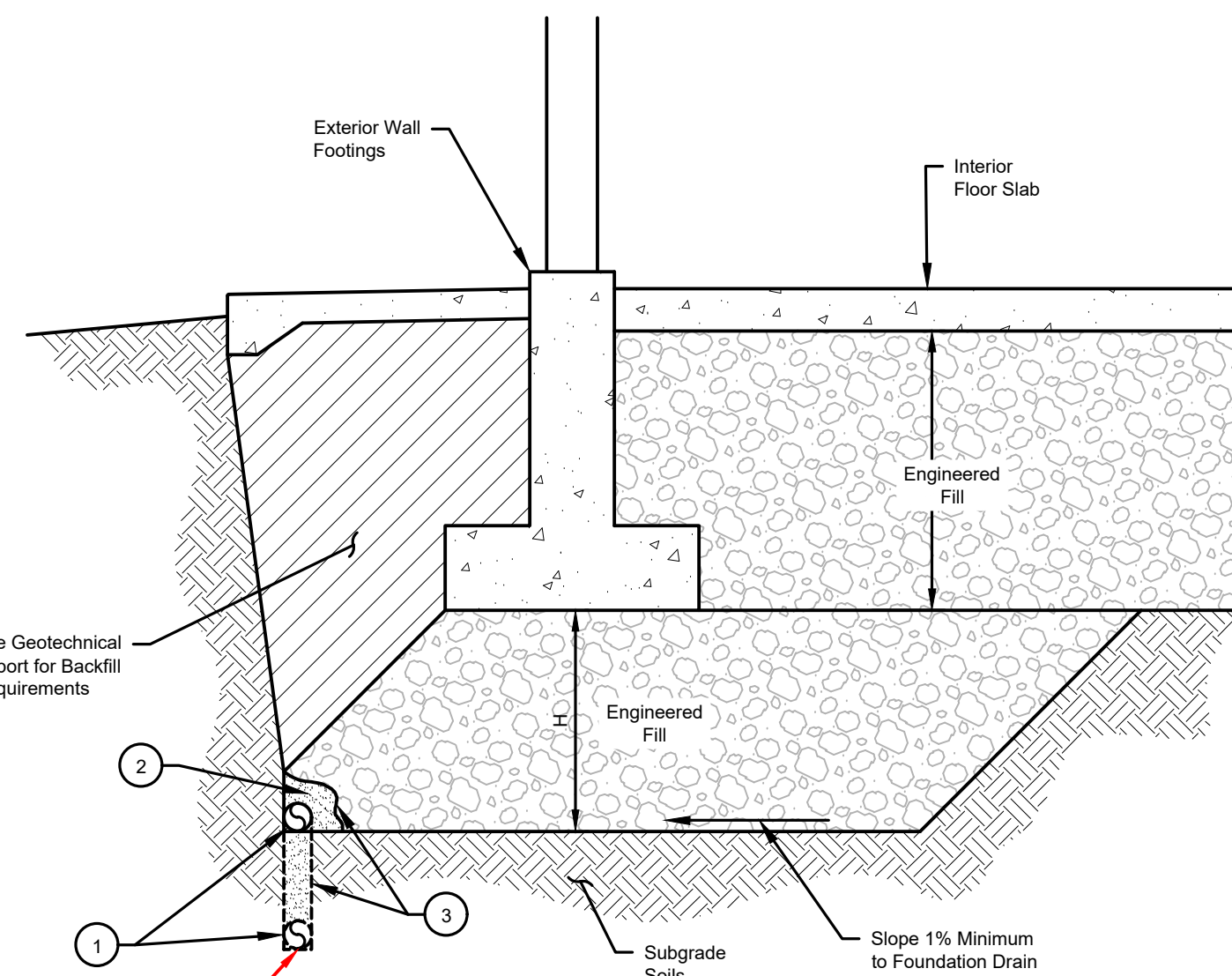
SECTION A-A

RV DUMP STATION
Not To Scale

Note:
Sanitary Hatch Lid Shall be OPW 269 4" Diameter, Self-Closing, Foot Operational and/or Spring/Weighted Cover or Approved Equal. Opening Shall be Flush with the Top of Concrete at Contained Area.



8" SIDEWALK TRENCH DRAIN
Not To Scale

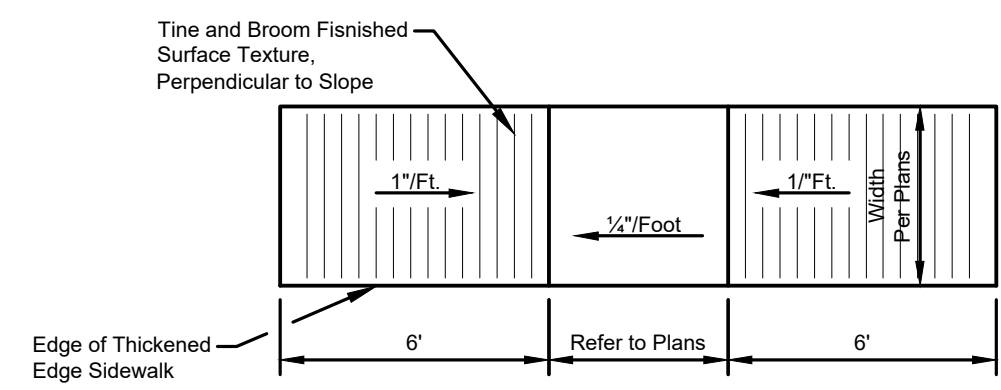


TYPICAL FOUNDATION DRAIN DETAIL
Not To Scale

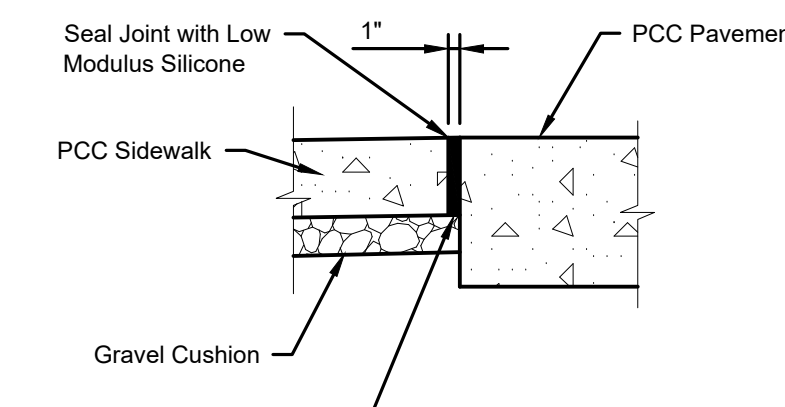
Note:
One Drain Pipe Required. Two Shown to Illustrate Sloping Depth

1. Minimum 4" Diameter, Non-Corroded, Perforated PVC Drain Pipe with 6" Minimum Layer of Free Draining Gravel Surrounding Pipe, Wrapped in 8 oz. Non-Woven Filter Fabric. Slope for Positive Drainage to Sump or Daylight.
2. 6" Layer of Free Draining Gravel. See Geotechnical Report for Gradation Specifications.
3. 8 oz. Non-Woven Filter Fabric

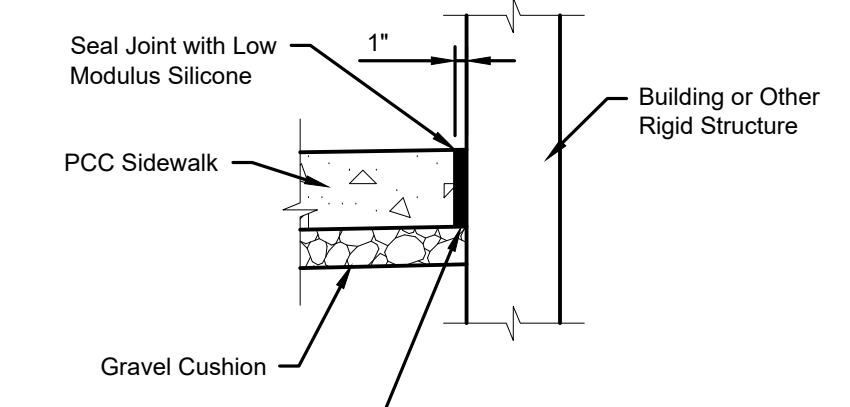
NOTES:
1. H = Over-excavation and engineered fill depth. See Geotechnical report text for specific recommendations.
2. Sketch is idealized for reference only, actual construction means and methods and field conditions may dictate width, depth and slopes of excavations. Geotechnical Engineer of record shall review and approve final design's construction.
3. See Fill Materials Section in Geotechnical report for specifications regarding engineered fill.



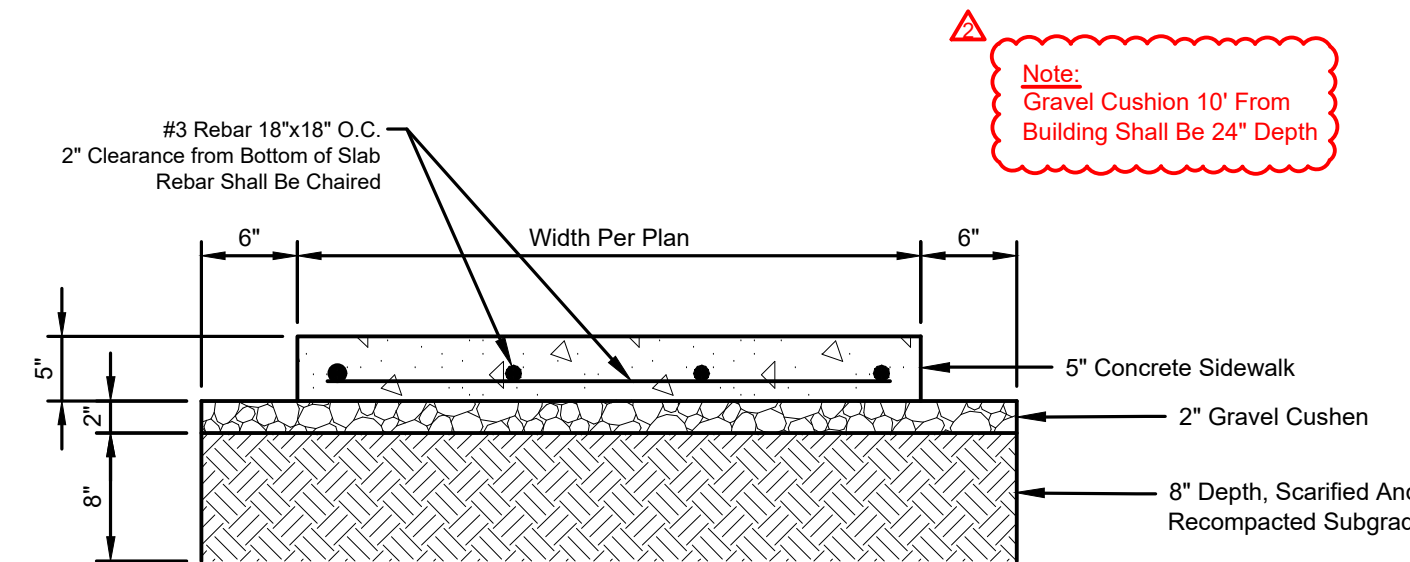
THICKENED EDGE SIDEWALK RAMP - TYPE L
Not To Scale



JOINT BETWEEN SIDEWALK AND PCC PAVEMENT



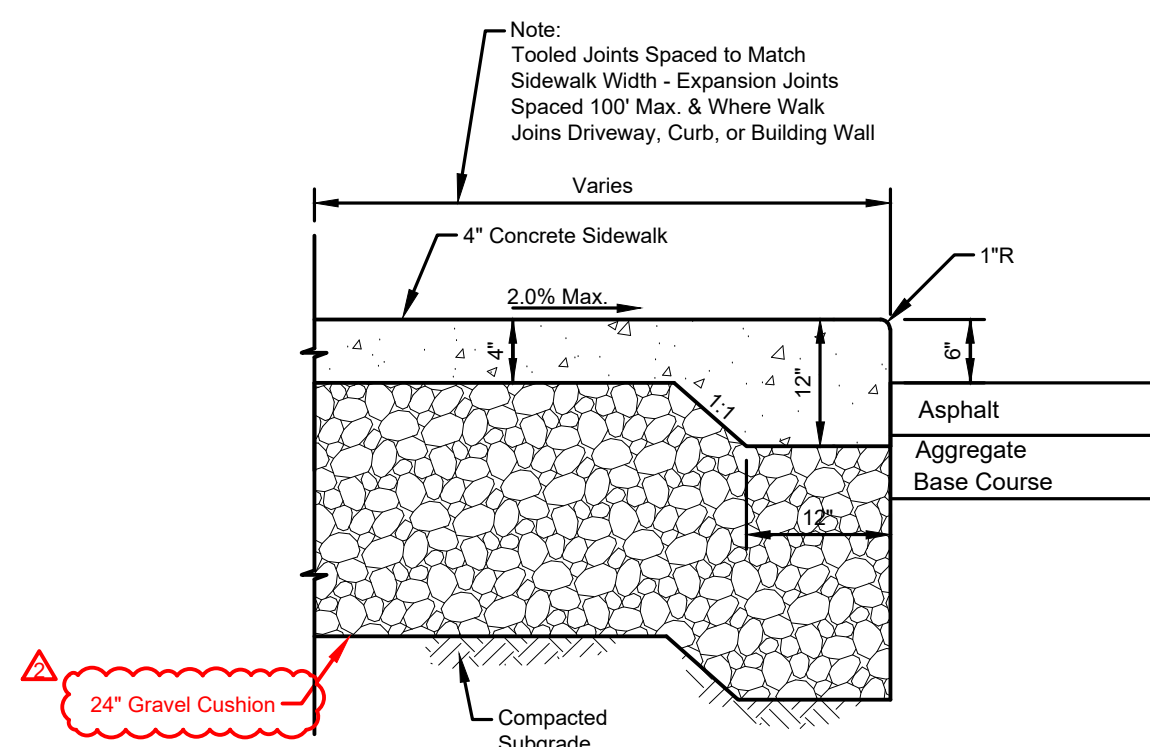
JOINT BETWEEN SIDEWALK AND BUILDING



SECTION

REINFORCED CONCRETE SIDEWALK
Not To Scale

1. The maximum cross slope allowed is 2% unless specified otherwise in the plans.
2. An expansion joint in the PCC sidewalk will consist of a 1/2-inch thick preformed expansion joint filler material placed full depth and width of the PCC sidewalk. The maximum length between expansion joints in the PCC sidewalk is 100'.
3. Sawed joints spaced to match sidewalk width. Curb side sidewalk joints to match curb and gutter joints where possible.



THICKENED EDGE SIDEWALK
Not To Scale

KOA - RAPID CITY OFFICE

Details

number 3017
date 08-02-24
revision
drawn JRK checked KLH

NO.	DATE	DESCRIPTION
1	8-30-24	Addendum #2

2.75

Rapid Valley Sanitary District - Water Service

Attachment B

4611 Teak Drive, Rapid City, SD 57703
Phone (605) 393-1050 | Fax (605) 393-1051

Design and Construction Standards For Water and Wastewater Piping and Appurtenances

PART 1 - GENERAL

1.1 Description

- A. This document applies to all underground potable water and wastewater systems and appurtenances installed within the jurisdictional boundaries of the Rapid Valley Sanitary District - Water Service (RVSD).

1.2 Design Criteria and Standards Specified Elsewhere

- A. City of Rapid City, South Dakota, Infrastructure Design Criteria Manual, 2012 Edition or current edition shall apply unless Rapid Valley Sanitary District standards issued in this document are more restrictive.
- B. Recommended Design Criteria Manual for Wastewater Collection and Treatment Facilities, South Dakota Department of Water and Natural Resources, current edition.
- C. Recommended Standards for Water Works, "Ten States Standards", current edition.
- D. National Standard Plumbing Code Illustrated, current edition.
- E. American Water Works Association, Applicable Manuals of Water Supply Practices, current editions.
- F. Uniform Fire Code, current edition.
- G. Handbook of PVC Pipe Design, Unibell, current edition.
- H. Gravity Sanitary Sewer Design and Construction, ASCE Manuals and Reports on Engineering Practice – No. 60 or current edition.
- I. Recommended Standards for Wastewater Facilities, "Ten States Standards", current edition.
- J. Rapid Valley Sanitary District – Water Service Sewer Use Ordinance, current edition.
- K. Rapid Valley Sanitary District – Water Service Water Use Ordinance, current edition.

1.3 Enforcement and Authority

- A. The General Manager of RVSD has the authority to interpret and enforce criteria, standards and construction requirements. Conflicts between specifications, design criteria manuals, codes and standards shall be resolved by the General Manager.
- B. Administrative Rules of South Dakota, ARSD 74.53.05 and 74.53.04.
- C. This document is approved by the RVSD Board of Trustees and is included as an attachment to the current Water Use and Sewer Use Ordinances.

- D. The General Manager, District staff, and their designated Engineer will provide review and enforcement of the requirements.

1.4 Specifications and Details

- A. City of Rapid City Standard Specifications for Public Works Construction, 2012 or current edition. These specifications shall apply unless Rapid Valley Sanitary District standards issued in this document are more restrictive. Changes, additions and/or clarifications are listed in Part 2 and Part 3 of this document.
- B. City of Rapid City Standard Plates. Specifically Sections 8, 9, and 11.

1.5 Review and Plan Submittal

- A. Two sets (2) of construction plans and associated documentation for proposed water and wastewater piping and improvements shall be submitted to the General Manager of RVSD for review by the Engineer and staff. Plan submittals shall be made directly by the developer to RVSD and shall not be made from other agencies.
- B. As-built drawings including plan and profiles shall be prepared by the developer and submitted to RVSD for review upon completion of the construction. The as-built plan drawings shall also be submitted in Autocad electronic format. The electronic drawings shall include lot layouts, right-of-way, easements, water and sewer mains and services and associated appurtenances.
- C. Plans will be reviewed and returned within ten (10) working days of submittal. Review comments will be made by the District Engineer and staff. Plans shall be resubmitted for review and comment after modification. Comments made on the original submittal shall be returned with the new plan submittal.
- D. The submittals shall include complete construction plans, profiles, details, detailed specifications, general notes, reports and other information concerning the work. The submittals shall be prepared by a Registered Professional Engineer in the State of South Dakota. Such documents shall be complete, clear, neat, legible, detailed and in a form acceptable to RVSD and other local, city, county, state or federal review agencies.
- E. The report shall include a water and/or sewer planning report for the ultimate development to be served. The report shall cover the proposed full-build out of the proposed development and it shall also review how the surrounding areas will be affected. The reports shall also include wastewater design flows, pipe capacities, existing conditions, hydraulic network, available fire flows at peak day demands, projected water usage, system pressures and other information required.
- F. RVSD will approve the proposed water and sewer plans after all requirements of the development have been fulfilled.
- G. RVSD review and approval applies only to water and sewer facilities. The project must be reviewed and approved by all appropriate local, county and state governing agencies prior to any construction.
- H. The Rapid Valley Volunteer Fire Department will also review all water projects and will make review comments available to RVSD. This review will add 3 working days to the review process for a total review duration of 13 working days.
- I. Plans shall be submitted to the South Dakota Environment and Natural Resources by the Developer for review and approval prior to construction

1.6 Construction

- A. Construction of the proposed water and sewer facilities must be constructed by a Contractor holding a current City of Rapid City (CORC) Water and Sewer Installer's License and/or a South Dakota State Sewer and Water Installers License as per SDCL 20:53:06.
- B. RVSD personnel shall be given access to the work at all times to make inspections of the work.
- C. RVSD will not accept facilities not in conformance with specified standards.
- D. Construction may not proceed until RVSD approves the final plans.
- E. Locations: Water and sewer facilities shall be located within the street, alley or right-of-ways unless topography dictates otherwise. Easements are required where the water and sewer facilities will be located outside of the right-of-ways.
- F. All water and sewer appurtenances such as manholes, cleanouts, valves and fire hydrants shall be accessible by motorized vehicle.
- G. The project will be accepted into the RVSD system upon the following:
 - 1. Construction is complete and facilities can be placed into service for their intended use.
 - 2. All testing has been completed and the required results have been achieved.
 - 3. As-built plans and electronic files are provided to RVSD.
 - 4. Facilities are in conformance with plans, specifications and RVSD standards.

1.7 Quality Control

- A. Source Quality Control: Materials shall be clearly marked with size, class, type, test pressure and manufacturer's name.
- B. Regulatory Agencies: Pipe for potable water service shall bear the National Sanitation Foundation Seal. AWWA and ASTM standards shall be followed where applicable.

1.8 Product Submittals

- A. Shop Drawings and Product Data:
 - 1. Dimensional data for all pipe, fittings and appurtenances.
 - 2. Material description and conformance with standards.
 - 3. Affidavit certifying compliance with applicable standards and specifications.
 - 4. Other items required to review product conformance with standard specifications.

PART 2 - WASTEWATER PIPING AND APPURTENANCES

2.1 Sewer Mains and Services

- A. Minimum sewer main size is 8" which shall have a minimum slope of .6%. If larger diameter pipe is required or is shown in the RVSD Master Plan, the Developer/Contractor will incur the cost of up-sizing. Pipe material shall be ASTM D-

- 3034,SDR-35 or SDR-26 gasket sewer pipe. All sewer mains will have access downstream by means of a manhole at all connection points to city trunk sewers.
- B. All new sewer service lines shall have a fabricated pipe wye on the sewer main, GPK gasketed sewer fitting or equal (8"x4" is GPK No. 107-0084). Direct sewer taps are not allowed on new sewer mains.
 - C. Sewer services shall be installed to the property line and marked with a 10' x ¾" rebar at the end of each service. Sewer services shall be installed to a maximum depth of 8' at the property line or at the proper depth to provide service to the proposed lot.
 - D. Tracer wire is required on all sewer mains and sewer service lines. Tracer wire shall be brought to the surface at cleanouts and manholes.
 - E. External or internal chimney seals are required on all manholes.
 - F. Minimum sewer main cover depth from the top of the pipe to finished grade shall not be less than 4.0 ft. Provide insulation per the standard detail in cases where minimum cover cannot be provided. Insulation may be required between storm sewer and sanitary sewers.
 - G. Minimum sewer service cover depth from the top of the pipe to the finished grade shall not be less than 3.5 ft.
 - H. Sewer minimum slopes, 8"=.6/100ft, 10"=.42/100ft, 12"=.33/100ft, 14"=.25/100ft, 16"=.21/100ft, 18"=.18/100ft. Sewer mains/services to be bedded with type 1 at a minimum, 3" of cover below and above pipe at a minimum.

2.2 Sewer Testing and Inspection

A. General:

1. A visual inspection and televising inspection test shall be performed by RVSD or an approved Contractor for all sewer mains and manholes as a condition of acceptance by RVSD. All tests shall be performed after backfill is complete but prior to any surface restoration. In addition, all new sewer main shall undergo a hydrostatic or air pressure test @ 7psi for 15 minutes minimum for pipe 8" or less and 20 minutes minimum for greater than 10" or as CORC specifications Sec.9 table 9-1. Manhole testing as per Sec 9 of CORC Sanitary Sewer Table 9-3, exception all tests will be 60 seconds minimum unless specified longer in Table 9-3.
2. Prior to pressure testing newly installed sewer pipe, RVSD or an approved Contractor shall jet and remove all accumulated construction debris, rock, sand, gravel, silt, and other foreign matter from the sewer with an appropriately sized cleaning ball or jetting machine.

B. Closed Circuit Television (CCTV) Inspection.

1. The Contractor shall arrange and pay for internal CCTV inspection of the completed sewer mains.
2. The CCTV inspection shall be performed by RVSD or an approved contractor.
3. A-USB flash drive of completed inspections shall be delivered to RVSD.
4. USB flash drive shall be properly labeled with on screen measurements or voice recorded measurements.

PART 3 - WATER PIPING AND APPURTENANCES

3.1 Water Mains, Fittings, and Appurtenances

- A. Fittings shall be fusion bonded epoxy ductile iron AWWA C-153, Class 350 mechanical joints with retainer glands or approved joint restraining devices shall be used where joint restraint is required by the plans or in this specification. Mechanical joint restraints are required at all fittings and pipe bells within the restraining length.
- B. All ductile iron fittings and joint restraining devices shall be encased in 8 mil polyethylene per the Standard Specifications.
- C. All metallic water fittings/services in contact with potable water shall be “No Lead” brass alloy and “NL” shall be cast or permanently stamped on the fitting or valve. Fittings and valves shall comply with the USA Safe Drinking Water Act, and US EPA.
- D. All pipe couplings shall be restrained mechanical joint sleeves with restraints allowing 5 degree deflection.
- E. The existing mains must remain in-service until the new water main is complete, disinfected, and pressure tested.

- F. Water mains shall be PVC AWWA C-900 or C-905, DR 18, Pressure Class 235. Minimum main size is 8”. If larger diameter is required for fire flow purposes or is shown in the RVSD Master Plan the Developer/Contractor will incur the cost of up-sizing.
- G. All main valves shall be mechanical joint non-rising stem resilient seat gate valves. Butterfly valves are not allowed.
- H. Fire hydrants shall be American Darling model B-84, American Flow Control, AVK or Mueller.
- I. Ductile iron fittings shall be mechanical joint and fusion-bonded epoxy coated. Use of American-made products is recommended.
- J. Fittings shall be mechanically restrained at all bends, all fittings on lowerings, reducers, tees and valves. Acceptable joint restraining devices shall be EBBA, Uni-Flange , Romac Field Flange or Alpha or Hymax style Fittings. Concrete thrust blocks are required at all other areas not mechanically restrained.
- K. Pipe joints for PVC water main shall be push-on bell and spigot. Where water main pipe joints are located closer than the restraining length to a restrained valve or fitting, the bell joint shall be restrained with a bell restraint fitting. The designer shall provide restraining length designs.
- L. Bolts for mechanical joints shall be NSS “Cor-Ten Blue” corrosion resistant type or stainless with a minimum of 304 rating. (Type 304 stainless will be used if soil test is moderate-to-severe for being corrosive)
- M. Tapping sleeves shall be stainless steel construction with a minimum 150 psi rating. The branch end shall be flanged and stainless-steel bolts and nuts shall be provided. A flange by mechanical joint valve shall be installed on the tapping sleeve.
- N. All main valves shall be mechanical joint resilient seat gate valves. Butterfly valves are not allowed.

- O. Testing and disinfection per standard specifications at a minimum or as directed by RVSD staff. The Contractor is responsible for all testing, tapping, disinfection and water sampling.
- P. Tracer wire is required on all water main and locator boxes will be placed at all fire hydrant locations. The Contractor shall coordinate all tracer wire splice locations with RVSD staff.
- Q. Water mains shall be bedded with type 1 or type 2 bedding is recommended if ground water is present or oversize to create stable base.

3.2 Water Service Lines

Polyethylene Water Service Lines:

- A. Minimum service line size is 1".
- B. Tapping saddles and corporation stops are required. Tapping and all materials are the responsibility of the Contractor. RVSD shall observe all water main taps. The Contractor shall contact and schedule the proposed tap with RVSD 2 working days prior to anticipated tap.
- C. Tapping saddles shall be solid band 304 stainless steel construction with stainless steel nuts and bolts. Tapered Buna-N ASTM D-2000 rubber gasketed (Ford FS303 or equal).
- D. One inch (1") through two inch (2") diameter shall be iron pipe size (IPS) poly SIDR 7, 250 psi minimum rating; with stiffener inserts at each curb stop, fittings, and corporation stop. Tubing shall meet the requirements of AWWA C901, NSF Standards 14 and 61, and shall have the material designation of PE3608 by the Plastic Pipe Institute.
- E. Compression type connections with inserts are required. (No yellow brass allowed. Red brass only). Barb fittings are not allowed.
- F. No service line splices on any section of the line.
- G. Piping over 2" and less than 4" shall be PVC service line pipe and shall comply with ASTM D-2241, 200 psi minimum rating, SDR 21. 4" and larger shall be C-900 PVC per specifications.
- H. Tracer wire shall be installed at each service line and exposed at the curb box. A ¼" hole will be drilled in the lid of the curb box and tracer wire ran through. Do not cut the tracer wire when continuing to house. On new construction of service lines to the house a tracer wire is required from the curb box to the water meter or valve inside the house with a tracer wire exposed at the curb box lid through the ¼" hole or holes that are drilled in the curb box lid.
- I. Curb stops with boxes shall be placed on each new service line at the property line or as shown on the plans.
- J. Curb boxes shall be placed behind the sidewalk and marked with a steel fence post. All curb boxes shall be adjustable and installed to finish grade. Finished grade is defined as the top of finished and graded topsoil. All curb boxes will be wrapped in 8mil plastic.
- K. Curb boxes shall be Minneapolis pattern No. 5622 (1-1/2") or Buffalo style 100E curb box with bushings added to curb stop.
- L. Water services shall be bedded with fines according to bedding specifications for crusher fines, base coarse or type 1 is required if in road crossing with a minimum 3" below the pipe and 3" above the pipe.
- M. Select soil material is required for a minimum of 18" above the pipe and shall include no rocks 2" or larger in nominal diameter

3.3 Design Standards for RVSD Water Systems:

See City of Rapid City Infrastructure Design Criteria Manual

<u>Minimum Parameters</u>	<u>RVSD Selected Standards</u>
1. Distribution System Minimum Working Pressure at Peak Day	40 psi
2. Normal Distribution System Work Pressure	50-80 psi
3. Distribution System Maximum Working Pressure	125 psi
4. Residential Maximum Working Pressure (in home)	80 psi
5. Minimum Working Pressure at Peak Hour Demand	20 psi
6. Water Main Size	8" minimum
8. Distribution System Valving	Valve cluster on all sides of pipe intersections, street intersections with an 800' maximum spacing. 450' max. and all intersections and high points.
9. Fire Hydrant Spacing	
10. Pipe Cover	6' minimum
11. Pipe looping	Required.

3.4 Water Main and Water Service Bedding Specifications

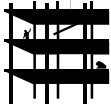
Bedding Spec for Crusher
Fines

SIEVES	% Passing
3/8"	100
#4	90-100
#8	50-90
#40	15-40
#200	10-25

Liquid Limit Max- 25

Plasticity Index- 0-3

**** END OF SECTION ****



Albertson Engineering Inc.

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Rapid City, SD 57702*

*315 N. Main Ave., Suite 200
Sioux Falls, SD 57104*

*201 S. Monroe St., Suite 203A
Winner, SD 57580*

ADDENDUM #2 – AUGUST 30, 2024

Date: August 30, 2024

Submitted to: Architecture Incorporated

Submitted by: Mike Albertson, Albertson Engineering Inc.

Project: KOA Rapid City

AEI Project #: 2023-134

For Distribution to: All prime contract bidders and other to whom drawings and specifications have been issued by the Architect

This Addendum forms a part of the Contract Documents. It modifies them as follows:

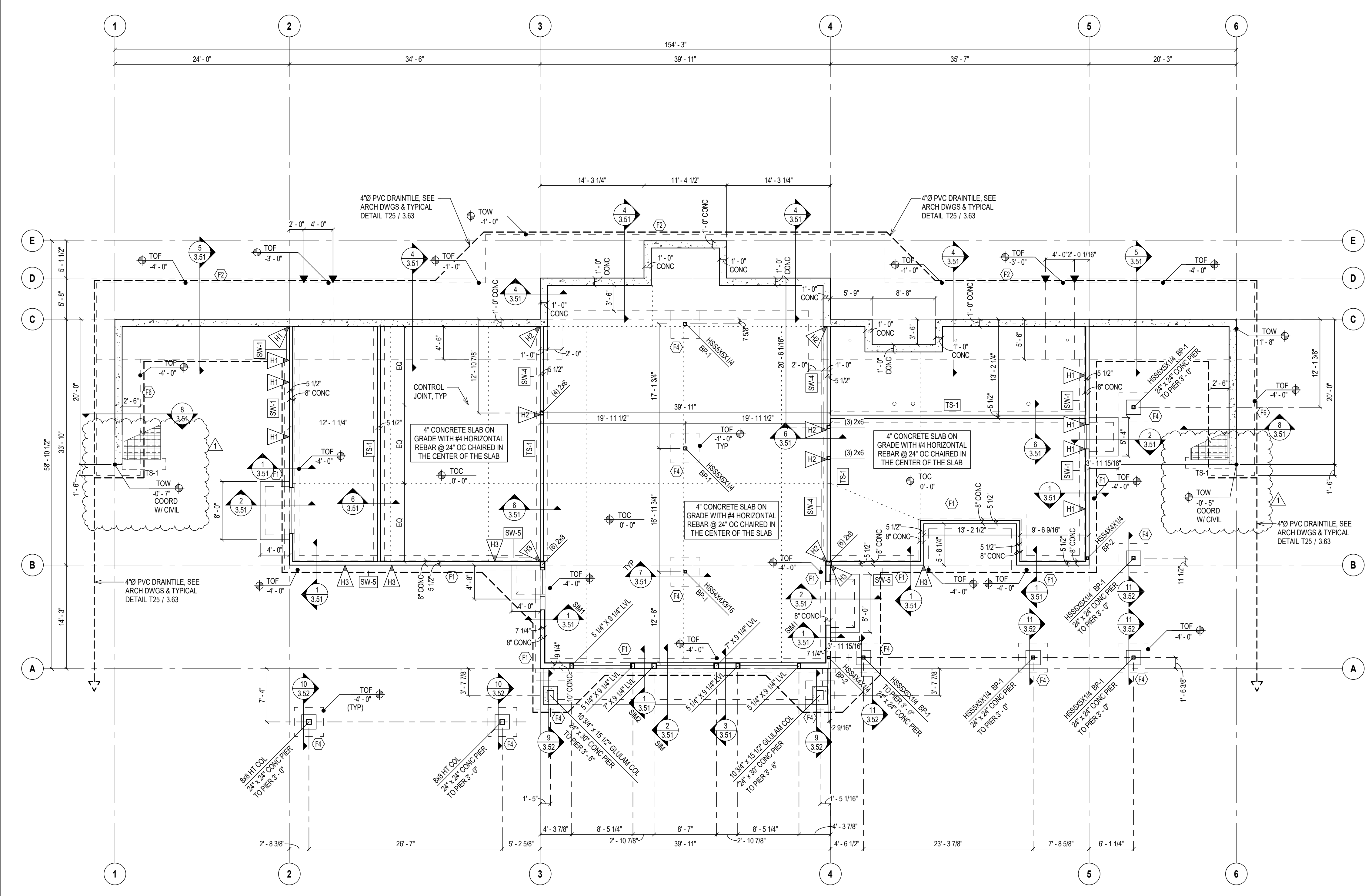
1. Elevations of top of concrete retaining walls outside of building slightly adjusted to better align with civil site elevations. Modifications made to sheets 3.11 and 3.12
2. Ledger for deck called out to 2x10 on sheet 3.53 and should have been 2x12. Modifications made to sections F4, F6, and F12 of sheet 3.53
3. Drain tile shown on sheet 3.61 is singular, two drain tiles are not shown, nor intended. Geotech report shows two locations to depict varying elevation. It is to have positive slope to outlet. No change to documents required.
4. The structural drawings require clean rock backfill for the entirety of the concrete retaining wall which is the entirety of the walls for the project along north side of building and return retaining wall sections along gridlines 1 and 6. This includes the entire north wall of the structure. Sections clearly depict the clean rock extents as starting at outside edge of footing and extend at a maximum slope of 2:1 in sections 4/3.51, 5/3.51, & 8/3.51. Clean rock extends to underside of slab. This requirement overrides any minimum requirements contained the geotechnical report in regards to allowable foundation wall backfill. No changes to documents are required.
5. Shearwall above main floor along gridline 4 to be SW-4

END OF ADDENDUM

Revised sheets 3.11, 3.12, 3.53



6/30/2024 11:47:02 AM



1
3.11
FND & FLR SLAB PLAN
SCALE: 1/8" = 1'-0"

SHEET NOTES

FOUNDATION & FLOOR SLAB PLAN NOTES

- SEE SHEET 3.01 & 3.02 FOR STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 00'-0" (LOWER LEVEL SLAB ON GRADE).
- TOP OF CAST-IN-PLACE FOUNDATION WALL (TOW) = 0'-0", UNO.**
- CAST-IN-PLACE FOUNDATION WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS.
- TOP OF FOOTING ELEVATION (TOF) = 4'-0", UNO.** SEE THIS SHEET FOR CONCRETE FOOTING SCHEDULE.
- CENTERLINE OF FOOTING SHALL COINCIDE WITH THE FOUNDATION WALL & COLUMN CENTERLINE, UNLESS SHOWN OTHERWISE.
- SEE SHEET 3.61 FOR CONCRETE PIER SCHEDULE
- CONCRETE SLAB-ON-GRADE SHALL BE 4" THICK WITH #4 REBAR @ 24" OC EACH WAY CENTERED IN THE SLAB, UNLESS NOTED OTHERWISE.
- CONCRETE SLAB-ON-GRADE CONTROL JOINTS SHALL BE TOOLED OR SAWCUT. THE JOINT PATTERN SHALL BE APPROXIMATELY AS SHOWN. JOINTS SHALL BE CUT WITHIN 8HRS OF POURING THE SLAB.
- FOR TYPICAL SLAB JOINTS, SEE SHEET 3.61.
- PROVIDE (2) #4 x60" REINFORCING BARS IN SLAB-ON-GRADE AT ALL SLAB RE-ENTRANT CORNERS.
- SEE ARCHITECTURAL & MECHANICAL DRAWINGS FOR SLOPES, DROPS, AND DRAIN LOCATIONS IN FLOOR SLAB.
- SEE MECHANICAL DRAWINGS FOR REQUIREMENTS RELATED TO ISOLATION OF NOISE AND VIBRATION FOR ALL MECHANICAL WORK.
- SEE MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF MECHANICAL EQUIPMENT PADS.
- CENTER STOPS ON OPENINGS UNLESS DIMENSIONED OTHERWISE. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF DOOR OPENINGS.
- BACKFILL & COMPACT BOTH SIDES OF FOUNDATION WALLS SIMULTANEOUSLY.
- SEE CIVIL DRAWINGS FOR EXTERIOR GRADING.
- FOR TYPICAL FOUNDATION RELATED DETAILS SEE SHEET 3.61, INCLUDING BUT NOT LIMITED TO TYPICAL COLUMN ISOLATION DETAIL, TYPICAL PIPE CROSSING DETAIL, AND TYPICAL EQUIPMENT PAD DETAILS.
- ALL BELOW GRADE STEEL CONNECTIONS SHALL BE COATED WITH BITUMINOUS PAINT.

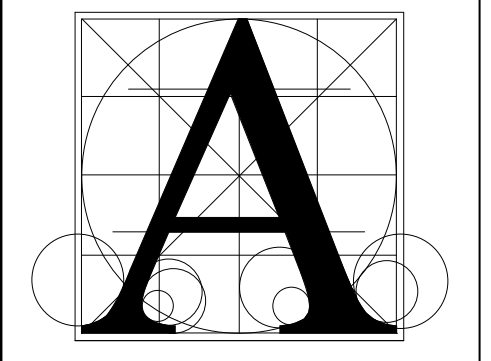
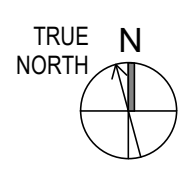
SHEET LEGEND

- DENOTES STEP IN WALL FOOTING
- DENOTES CONCRETE SLAB CONTROL JOINTS (SJ)
- DENOTES FOOTING, SEE PLAN & SCHEDULE
- DENOTES CONTINUOUS THICKENED SLAB FOOTING, SEE SCHEDULE
- DENOTES 2x STUD SHEAR WALL, SEE SHEAR WALL SCHEDULE ON SHEET 3.62
- DENOTES HOLDOWN FOR WOOD STUD SHEAR WALLS, SEE PLAN AND HOLDOWN SCHEDULE ON SHEET 3.62

SCHEDULES

FOOTING SCHEDULE

MARK	FOOTING SIZE	REINFORCING	REMARKS
F1	CONT x 2'-0" x 1'-0"	(3) #5 CONT	BOTTOM
F2	CONT x 10'-6" x 1'-6"	SEE SECTION	SEE SECTION
F4	4'-0" x 4'-0" x 1'-0"	(5) #5 EA WAY	BOTTOM
F6	CONT x 6'-0" x 1'-0"	SEE SECTION	SEE SECTION
TS-1	CONT x 1'-6" x 1'-0"	(3) #5 CONT	BOTTOM



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sheet contents
FOUNDATION PLAN

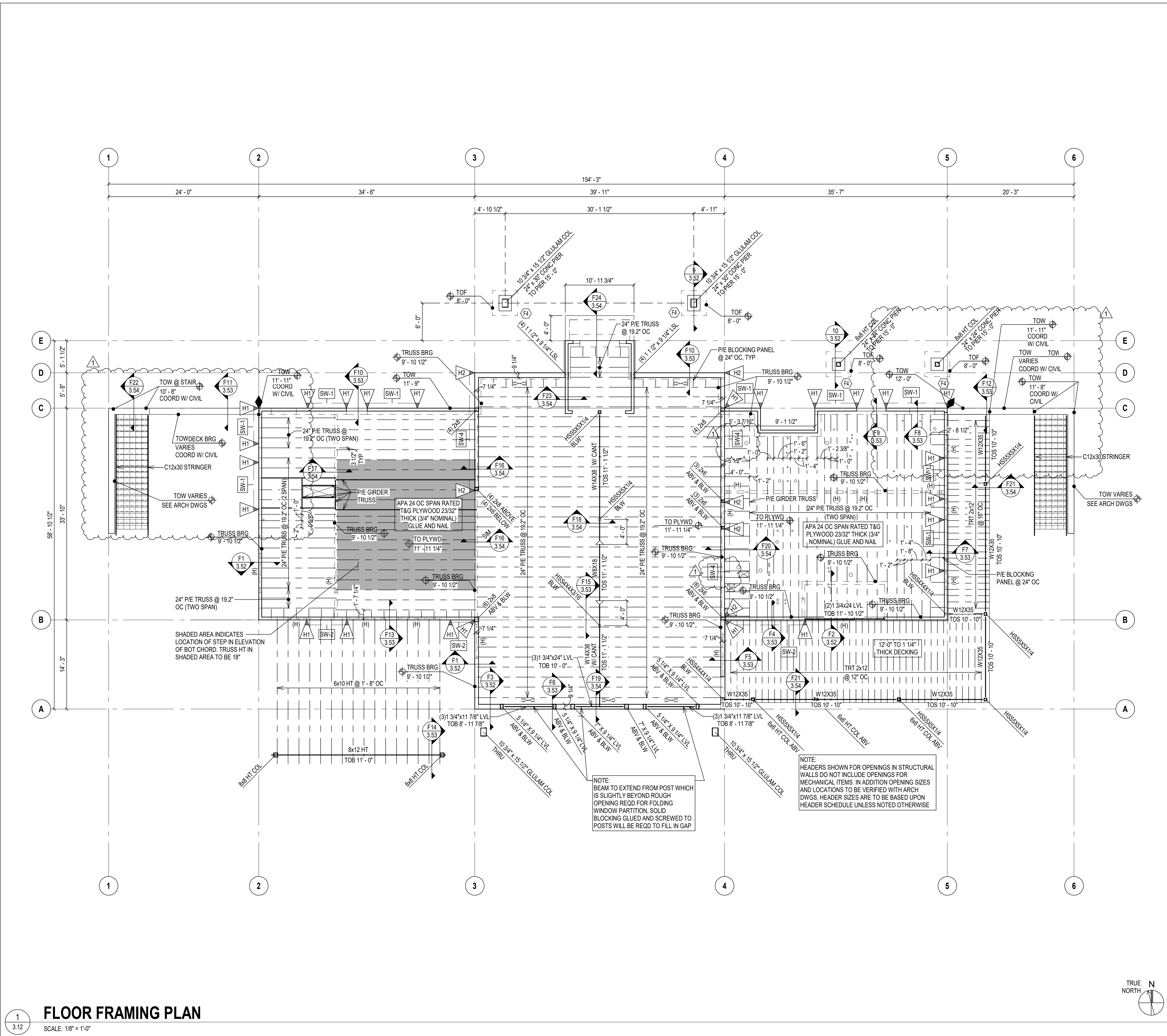
Project

number 2023-134
date 06/05/2024
revision
drawn RAW checked MDA

NO.	DATE	DESCRIPTION
1	8-30-24	ADDENDUM 2

3.11

6/30/2024 11:47:03 AM



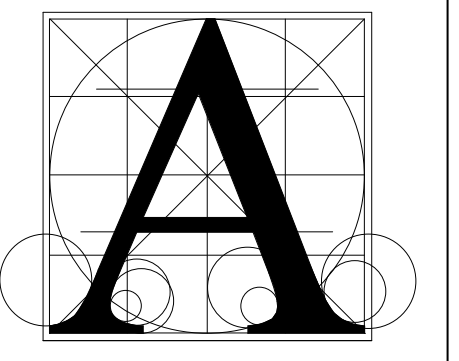
SHEET NOTES

FLOOR FRAMING PLAN NOTES

- SEE SHEET 3.01 & 3.02 FOR STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS & ELEVATIONS WITH ARCHITECTURAL DRAWINGS BEFORE CONSTRUCTION COMMENCES.
- ELEVATIONS ON THE STRUCTURAL DRAWINGS REFER TO THE TOP OF CONCRETE REFERENCE ELEVATION SET AT 0'-0" (LOWER LEVEL SLAB ON GRADE).
- FLOOR TRUSS BEARING ELEVATION 9' - 10 1/2" UNLESS NOTED OTHERWISE.
- FLOOR FRAMING SHALL BE PRE-ENGINEERED WOOD FLOOR TRUSSES @ 19.2" OC, UNLESS NOTED OTHERWISE. TRUSS MANUFACTURER SHALL DESIGN AND DETAIL ALL TEMPORARY AND PERMANENT TRUSS BRACING IN ACCORDANCE WITH TPI RECOMMENDATIONS. ALL TRUSSES TO TRUSS CONNECTIONS BY TRUSS MANUFACTURER.
- FLOOR TRUSSES SHALL BE COORDINATED WITH MECHANICAL TO ALLOW FOR FLOOR PENETRATIONS AT LOCATIONS THAT CANNOT BE ALTERED (PLUMBING DROPS FOR TOILETS, SHOWERS, ETC.). PROVIDE A TRUSS LAYOUT PLAN WITHIN SUBMITTED SHOP DRAWINGS SHOWING THAT COORDINATION HAS BEEN CONSIDERED AND PERFORMED.
- FLOOR SHEATHING SHALL BE APA 24 OC SPAN RATED T&G PLYWOOD SHEATHING, 23/32" THICK (3/4" NOMINAL) GLUE & NAIL SHEATHING WITH 10d COMMON NAILS @ 6" OC AT PANEL EDGES (UNLOCKED), AND 12" OC IN THE FIELD UNLESS OTHERWISE DETAILED.
- VERIFY NUMBER, SIZE, AND LOCATION OF ALL OPENINGS IN FLOOR FRAMING WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. FRAME OPENINGS GREATER THAN 12" WITH (1) 2x6 EACH SIDE MINIMUM.
- ALL STRUCTURAL WALLS SHALL BE 2x6, UNLESS NOTED OTHERWISE.

SHEET LEGEND

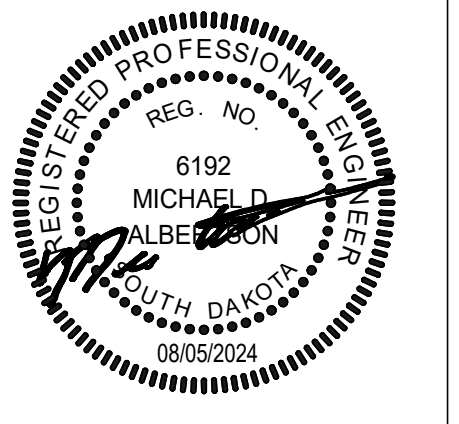
- W10X12 DENOTES BEAM CALLOUT
- Ø DENOTES COLUMN SIZE
- ◆ DENOTES LOCATION OF STEP IN TOP OF FOUNDATION WALL
- (H) DENOTES WOOD HEADER, SEE HEADER SCHEDULE ON SHEET 3.62
- SW-x DENOTES 2x STUD SHEAR WALL, SEE SHEAR WALL SCHEDULE ON SHEET 3.62
- HT DENOTES HOLDOWN FOR WOOD STUD SHEAR WALLS, SEE PLAN AND HOLDOWN SCHEDULE ON SHEET 3.62
- DENOTES MECHANICAL DUCT OR PIPE PENETRATIONS, SEE MECHANICAL DRAWINGS AND PLAN NOTES ABOVE FOR FLOOR TRUSS COORDINATION



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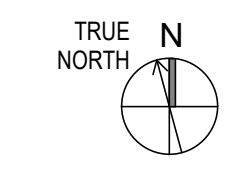
FLOOR FRAMING PLAN

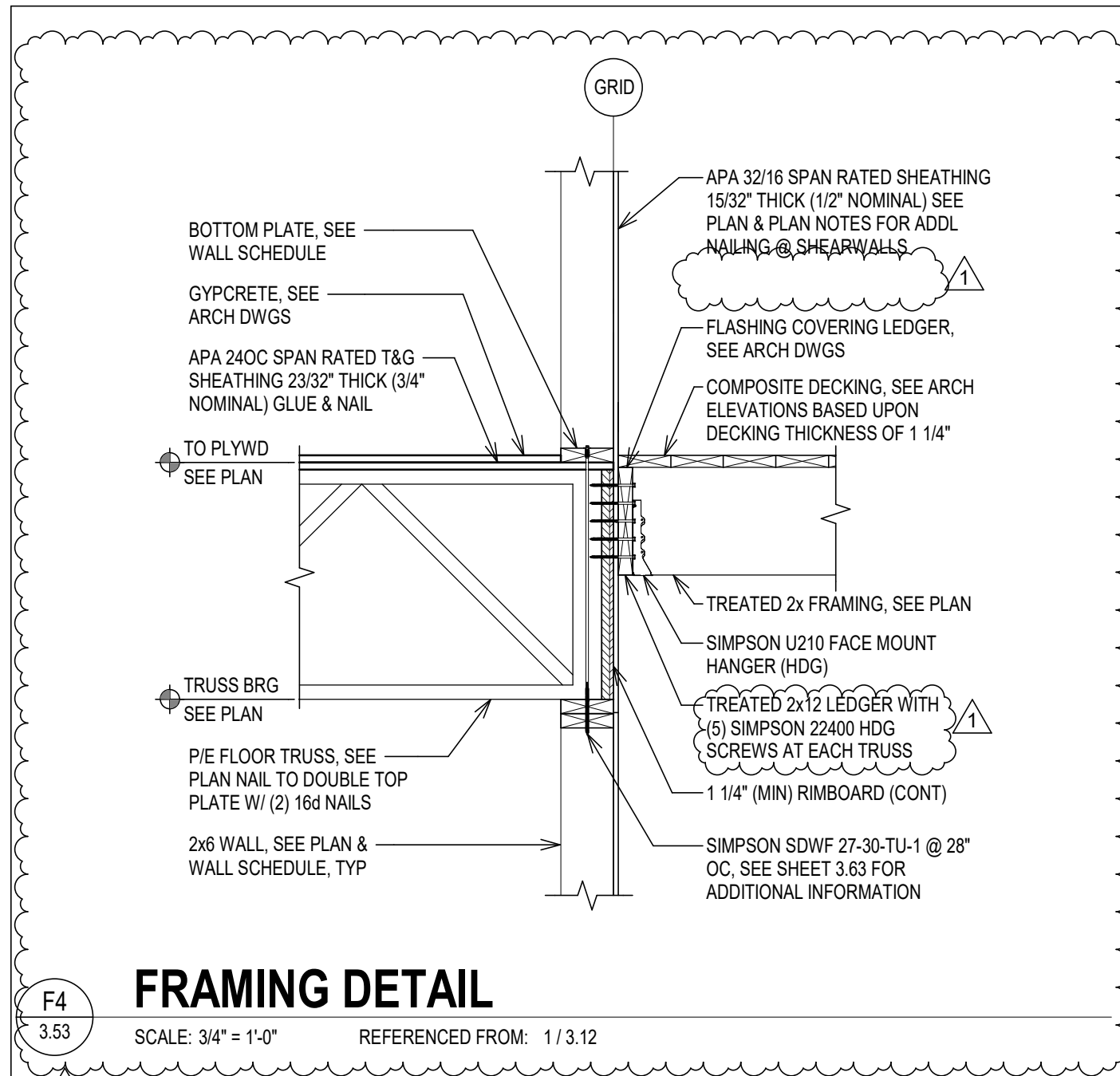
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sheet contents

number	2023-134	
date	06/05/2024	
revision		
drawn	RAW	
checked	MDA	
NO.	DATE	DESCRIPTION
1	8-30-24	ADDENDUM 2

3.12

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

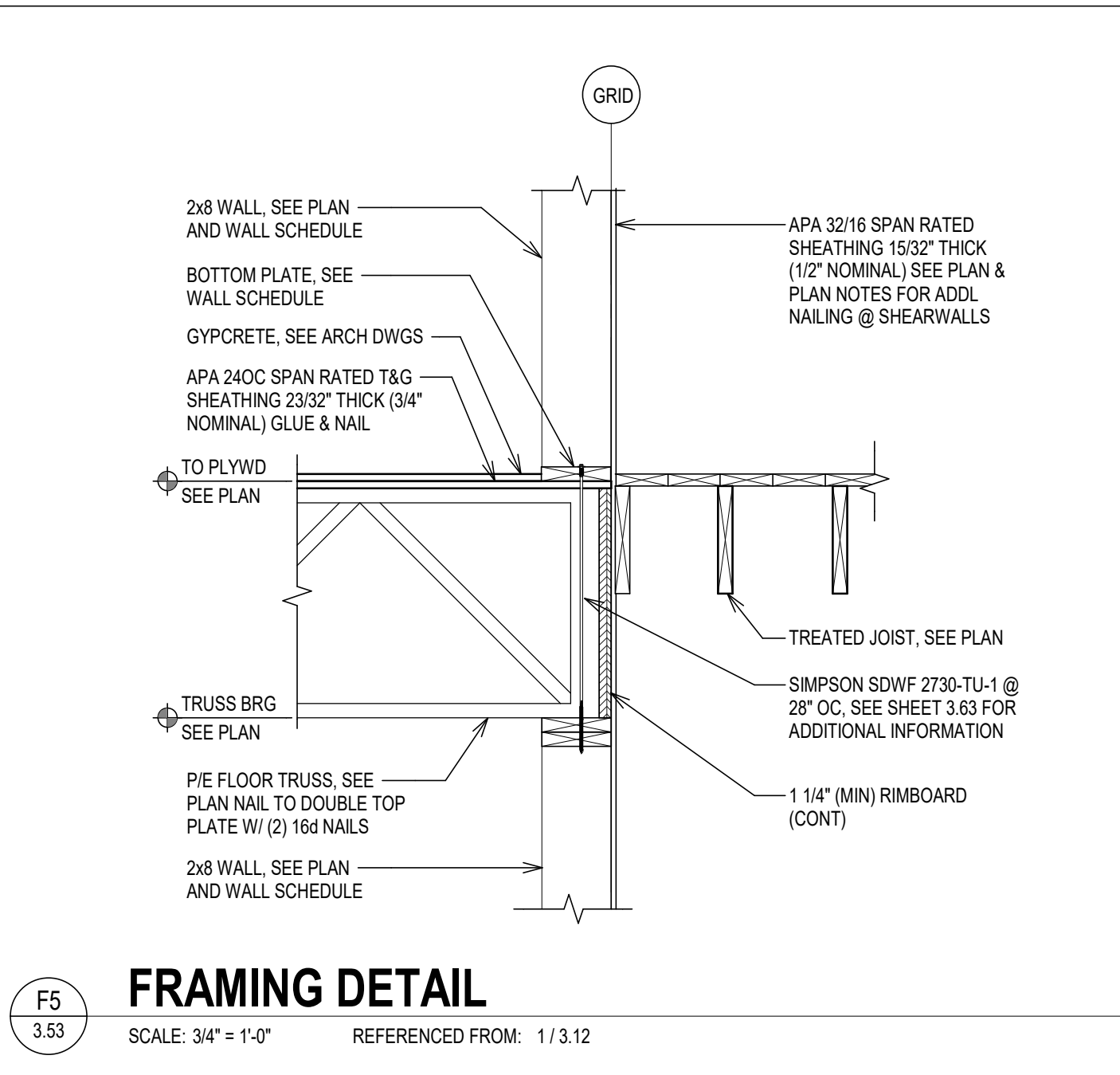




F4
3.53

FRAMING DETAIL

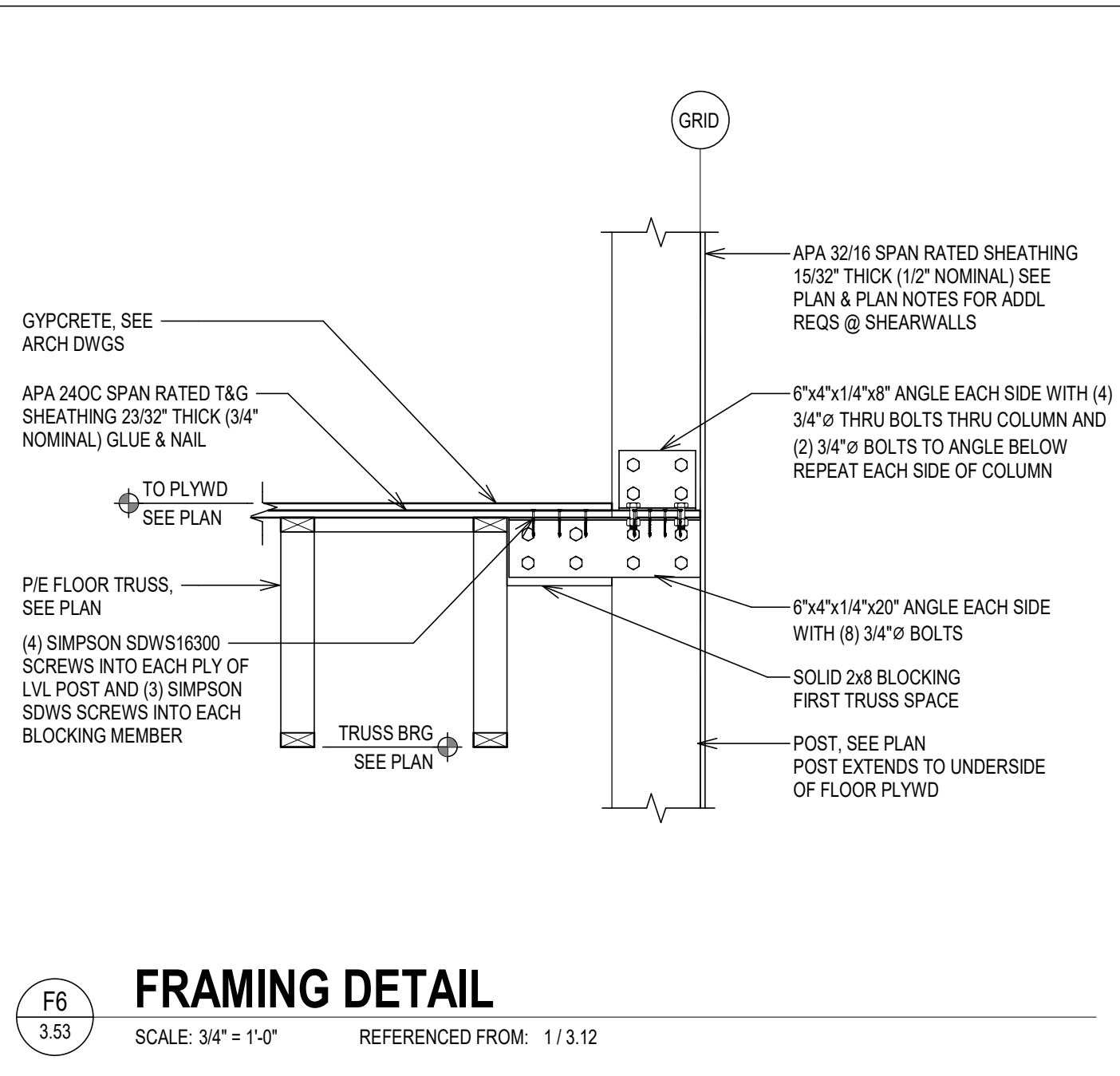
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F5
3.53

FRAMING DETAIL

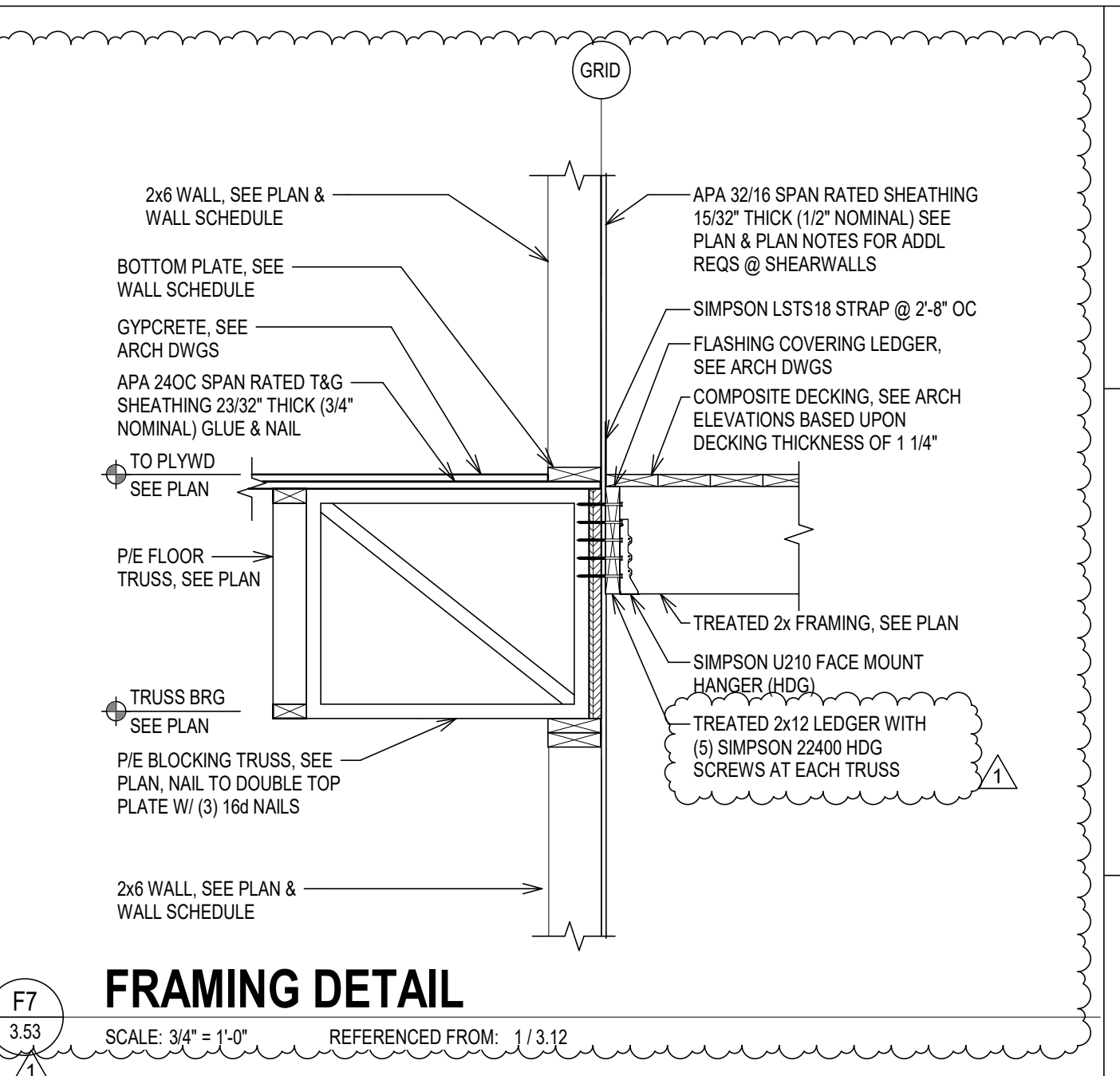
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F6
3.53

FRAMING DETAIL

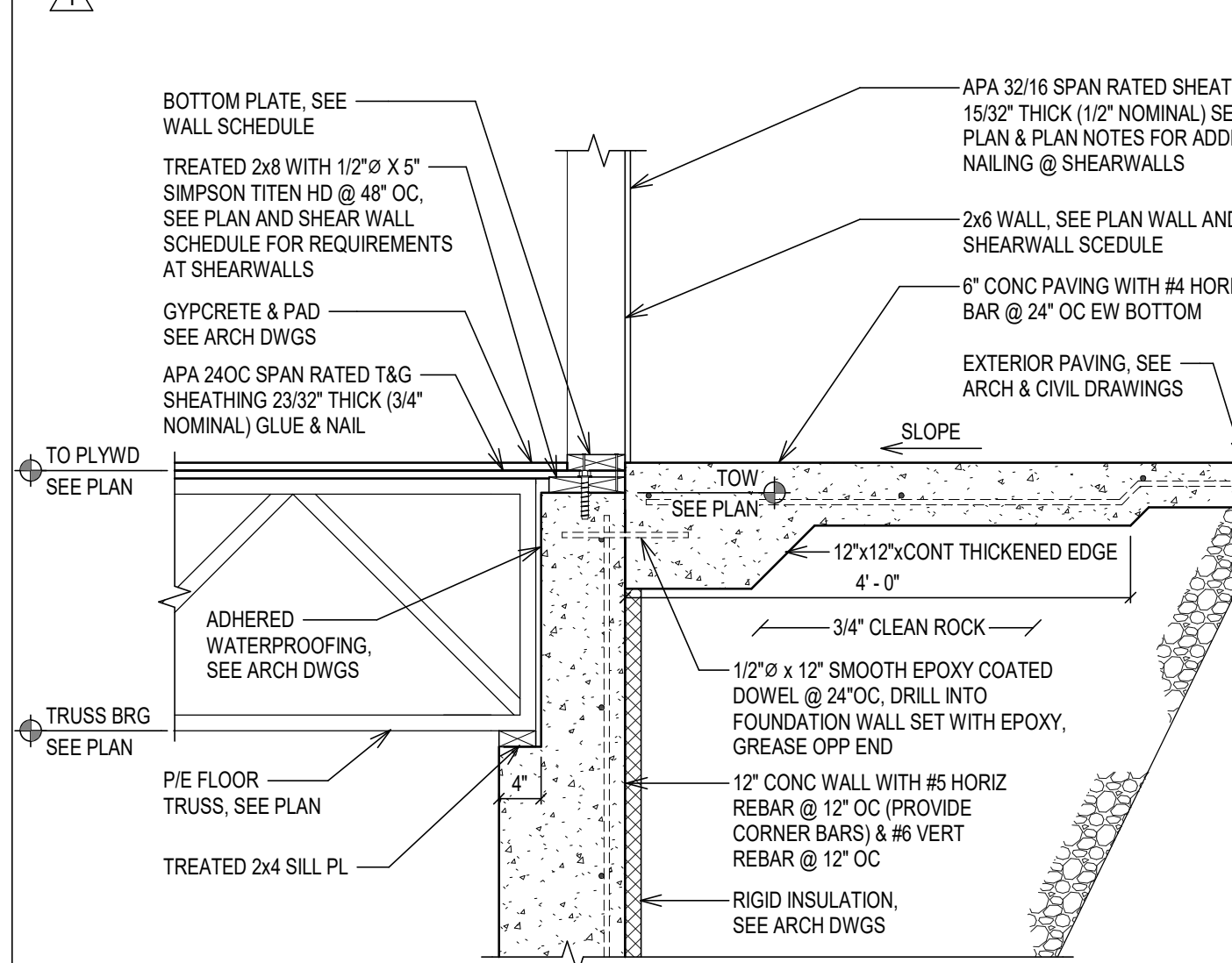
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F7
3.53

FRAMING DETAIL

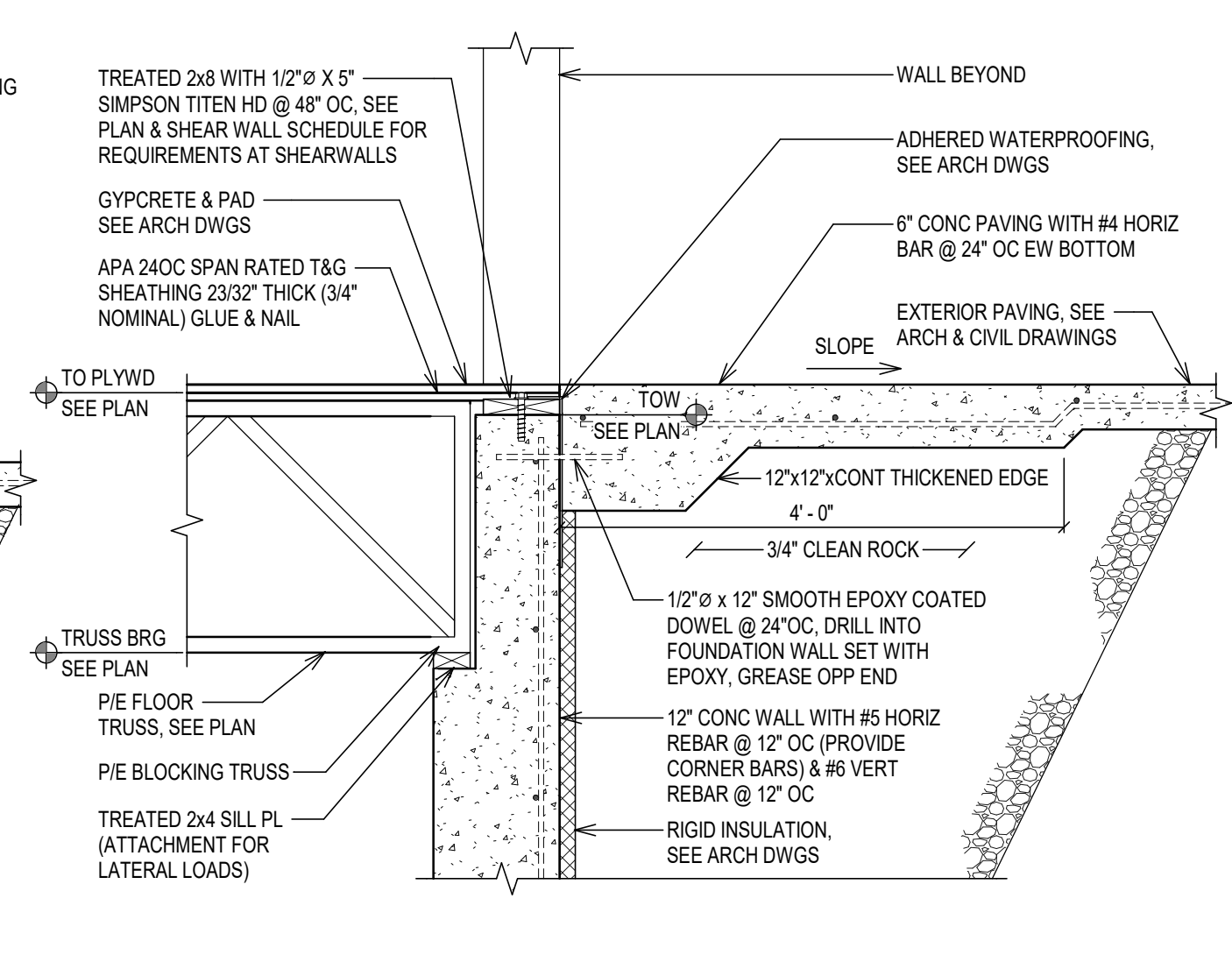
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F8
3.53

FRAMING DETAIL

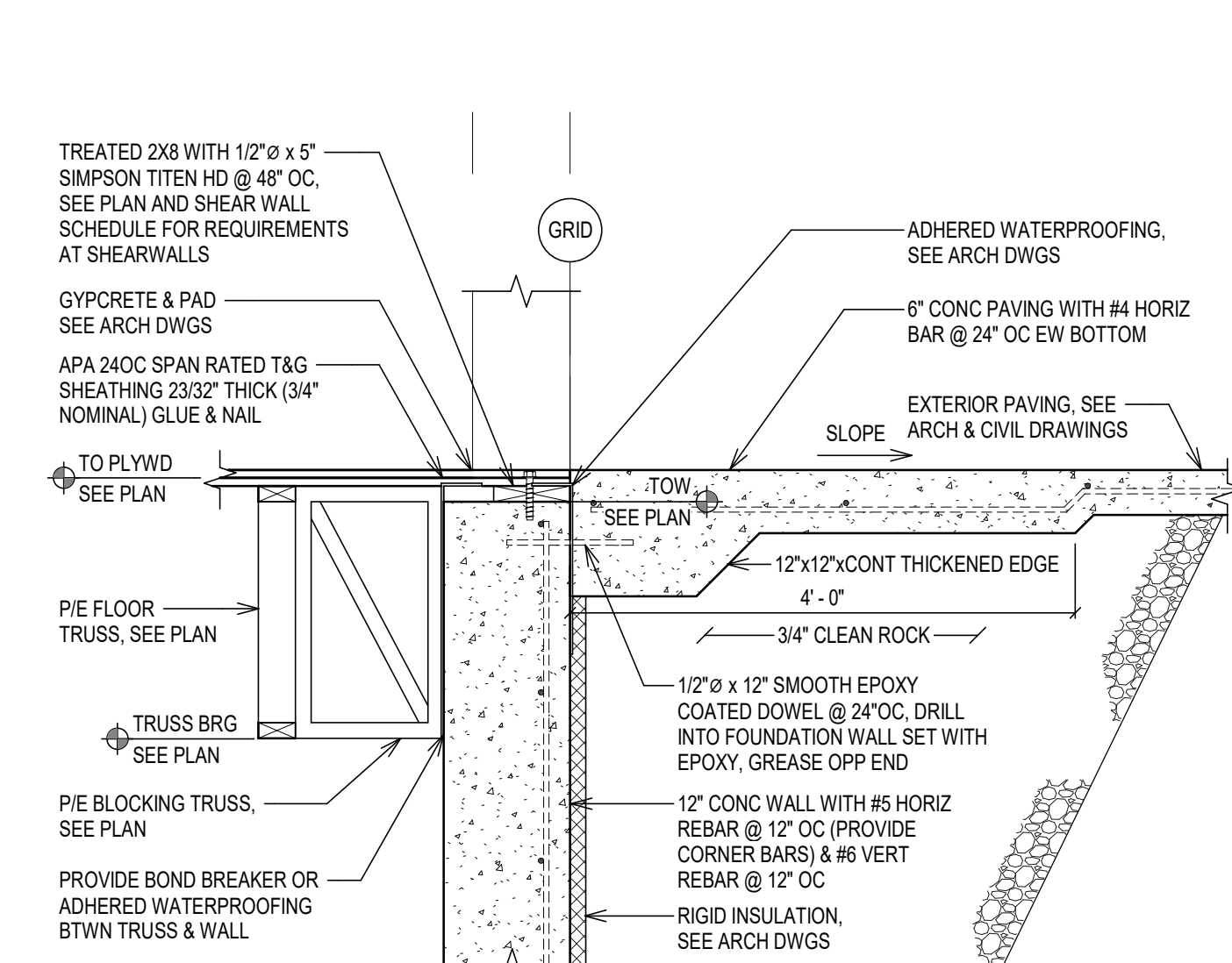
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F9
3.53

FRAMING DETAIL

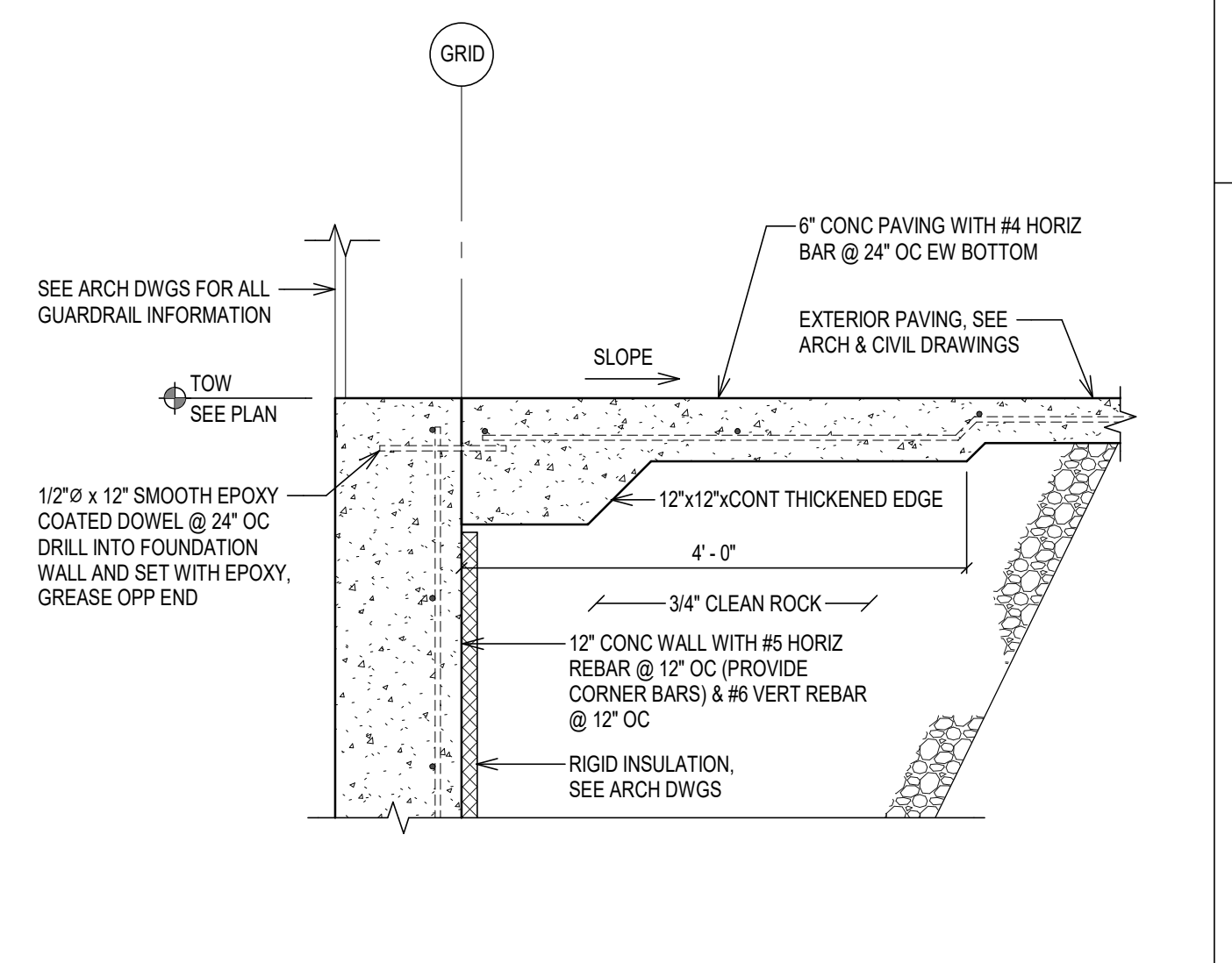
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F10
3.53

FRAMING DETAIL

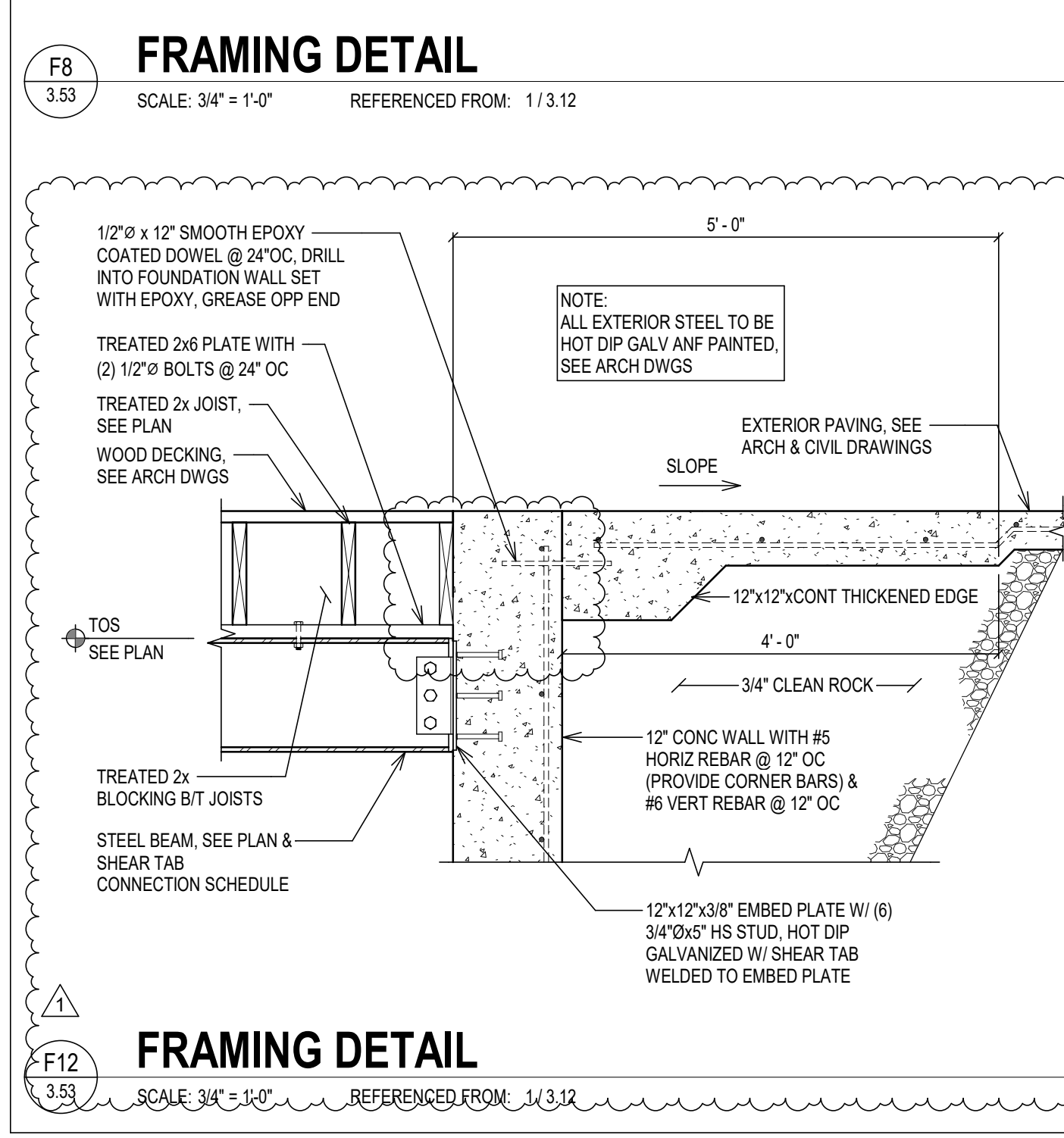
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F11
3.53

FRAMING DETAIL

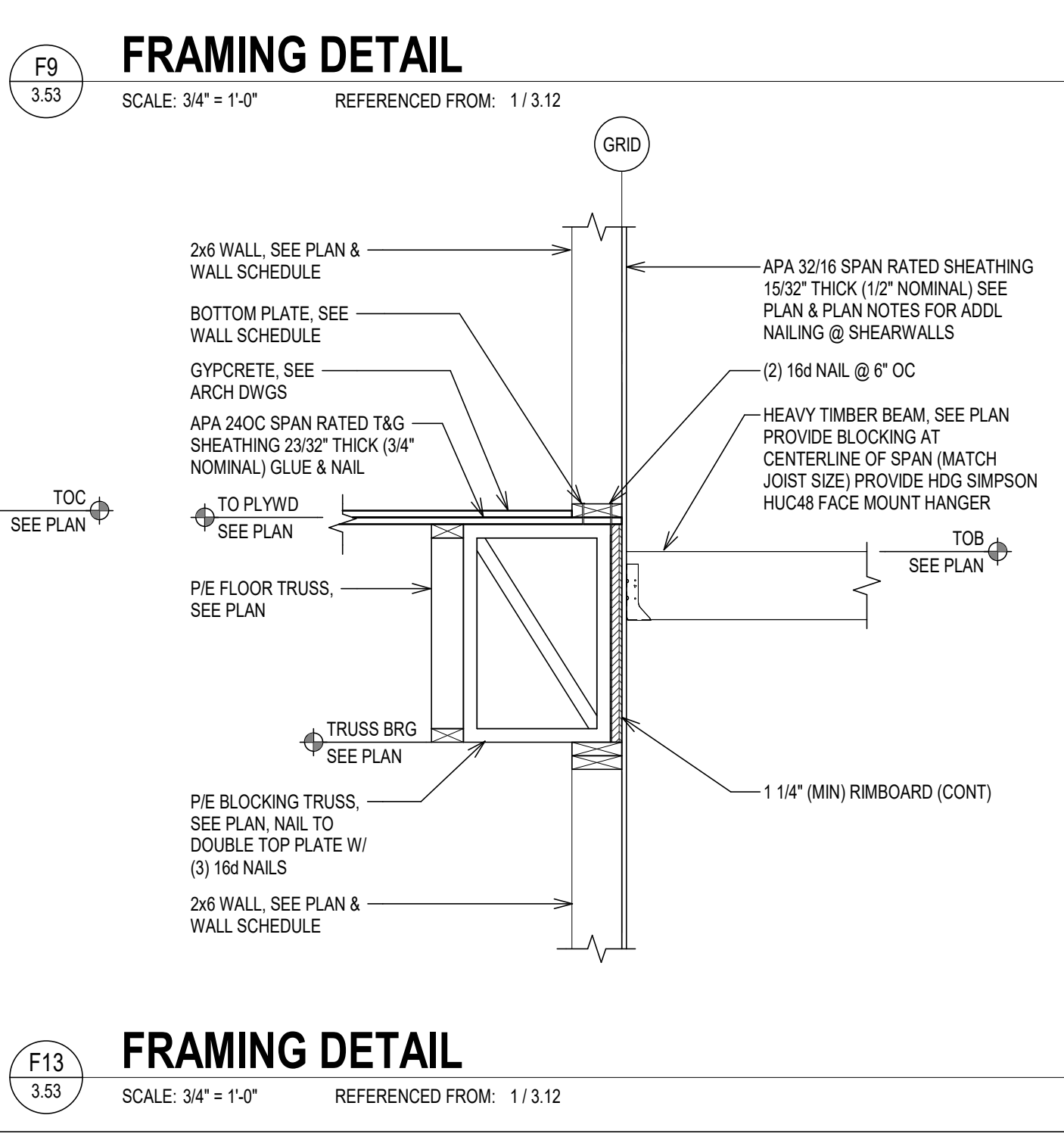
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F12
3.53

FRAMING DETAIL

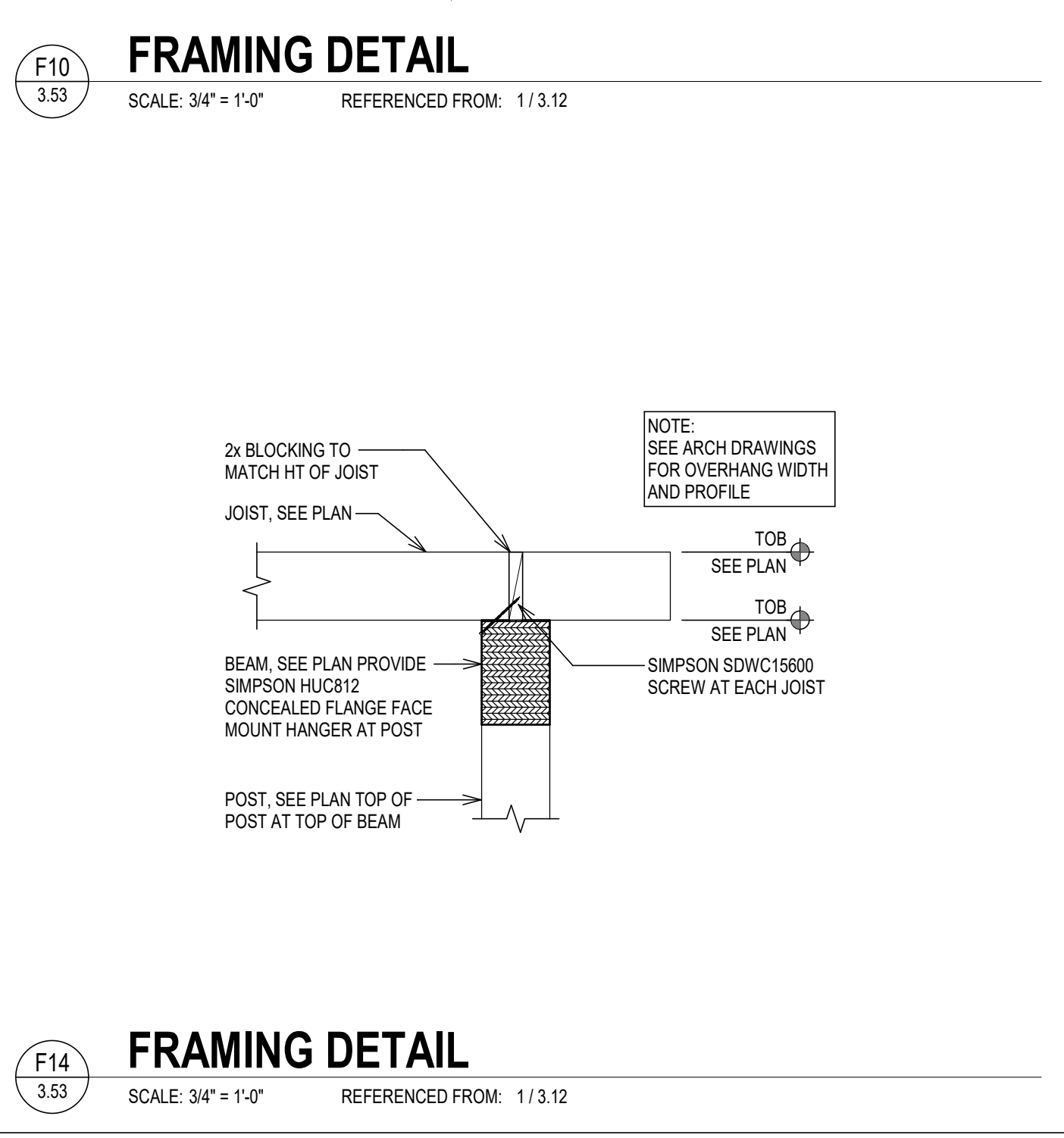
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F13
3.53

FRAMING DETAIL

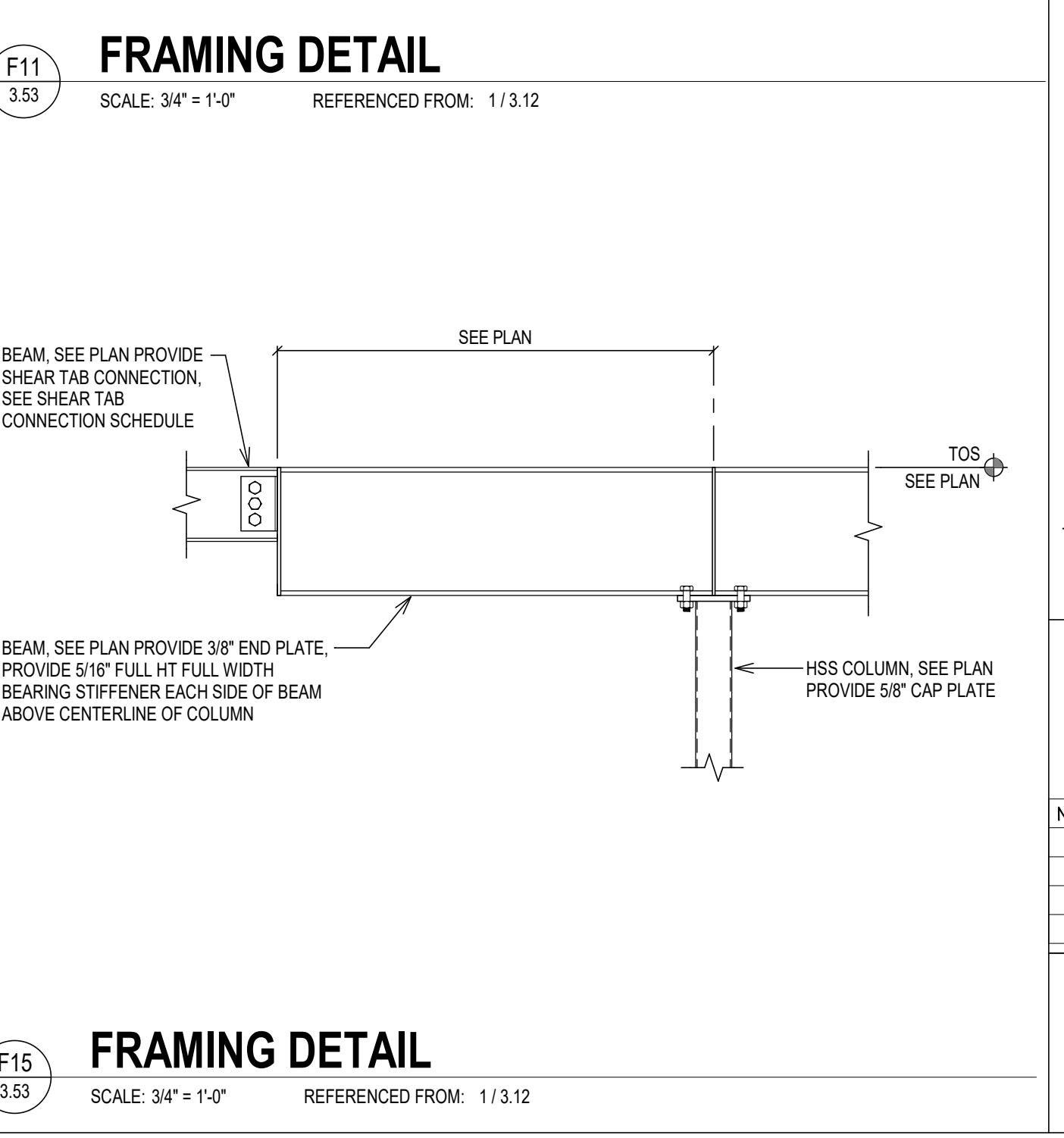
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F14
3.53

FRAMING DETAIL

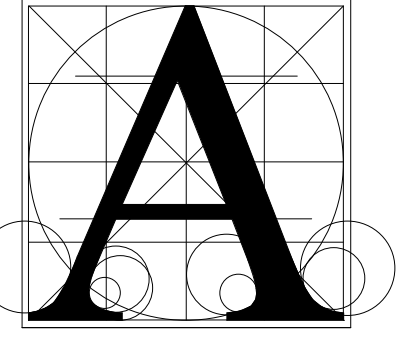
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F15
3.53

FRAMING DETAIL

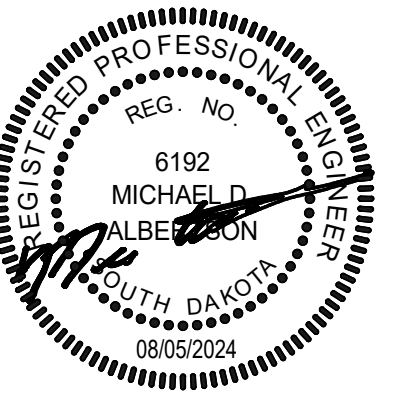
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sheet contents
DETAILS

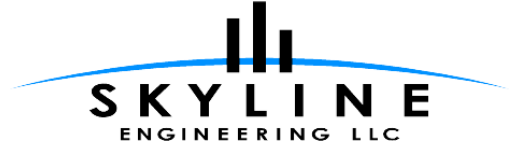
Project

number 2023-134
date 08/05/2024
revision
drawn RAW checked MDA

NO.	DATE	DESCRIPTION
1	8-30-24	ADDENDUM 2

3.53

6/30/2024 11:47:06 AM



Attn: Jordan Burbach
Architecture Incorporated
508 7th Street
Suite 200
Rapid City, SD 57701

Project Name: KOA – Rapid City Office
Skyline Project Number: 23037
Addendum Number: 2
Date: August 30, 2024

ADDENDUM NO. 2 - MECHANICAL

This Addendum shall be considered as much a part of the Contract documents as though it had been issued with the original Documents as issued and written therein, in Division and Section. The bidder shall note receipt and make acknowledgment of this Addendum on his bid form, incorporating its provisions in his bid.

- 1) Specifications Revisions: None.
- 2) Drawing Revisions: None
- 3) Prior Approvals.
 - a) Contractors and Vendors shall note that space is limited in mechanical locations and it is the responsibility of the Contractor to verify whether equipment substitutions will fit into the allotted space.
 - b) See Division 01 Specifications for Substitution Request forms. These forms are required to be completed for any equipment substitutions prior to or after the bid.
 - c) Subject to project requirements, the following manufacturers are allowed for bidding purposes:

i) Section 221429	Sump Pump	Little Giant
ii) Section 235416	Gas-Fired Furnace	York
iii) Section 238126	Split-System Air-Conditioners	Samsung
iv) Schedule (BoD)	Louvers	Air Balance Inc.

Attachments: None

END OF MECHANICAL ADDENDUM #2

ADDENDUM NO. 2 - ELECTRICAL

This Addendum shall be considered as much a part of the Contract documents as though it had been issued with the original Documents as issued and written therein, in Division and Section. The bidder shall note receipt and make acknowledgment of this Addendum on his bid form, incorporating its provisions in his bid.

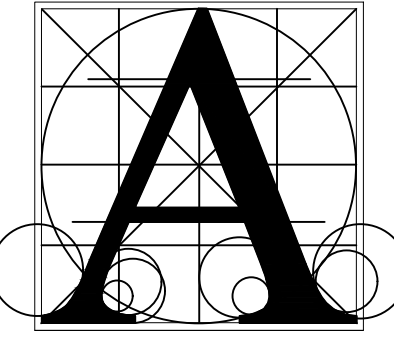
- 1) Specifications Revisions:
 - a) None

- 2) Drawing Revisions:
 - a) Sheet 9.40
 - i) Added fixture type "P1".
 - ii) P1-4A: Revised Mounting.
 - b) Sheet 9.41
 - i) P2-1A/2A: Revised Mounting.

- 3) Acceptable Equivalents:
 - a) None

Attachments: 9.40, 9.41

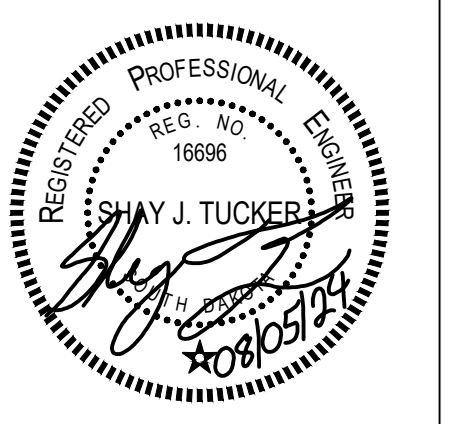
END OF ELECTRICAL ADDENDUM #2



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KOA - RAPID CITY OFFICE

ELECTRICAL SCHEDULES

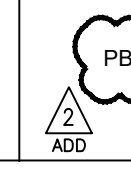
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date 08/05/2024
revision
drawn BR5 checked SJT

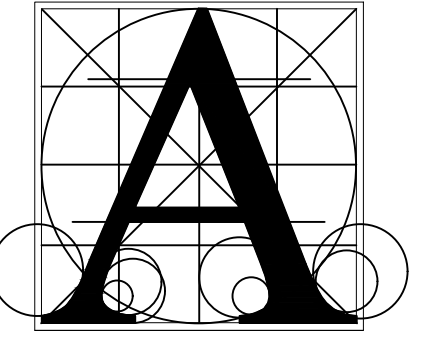
NO.	DATE	DESCRIPTION
2	8/30/24	ADDENDUM #2

9.40



LIGHT FIXTURE SCHEDULE																	
FIXTURE TYPE	FIXTURE DESCRIPTION (FEATURES)	VOLTS	MOUNTING	LAMPS	CONTROL MEDIA: LENS, LOUVERS, ETC.	MFR.	CATALOG NUMBER	FIXTURE COLOR/ FINISH	MIN. FIXTURE CRI	UV LENS OR LAMP COVER	LIGHT LOSS FACTOR (5% TOL.)	DESIGNED FIXTURE EFFICACY	MAX WATTS INTO FIXTURE	MIN. LUMENS OUT OF FIXTURE	MIN. RESULTANT EFFICACY	SPECIFIC NOTES	
2'X4' LED RECESSED CONTRACTOR SERIES FLAT PANEL - BACK LIT																	
A	2'x4', 4000L - 6000L FLAT PANEL LED	120/277	LAY-IN	FIELD SELECTABLE 3500K 4000K 5000K	LOW-PROFILE, EXTRUDED ALUMINUM FRAME, BACK LIT LED, SATIN WHITE LENS, DIMMABLE, FIELD SELECTABLE CCT AND LUMEN OUTPUT	ILLUM SYS - METALUX	24CGTS-L3C3	WHITE	80	NO	0.90	LOW - 138 MED - 119	LOW- 30 MED - 52	LOW - 3492 MED - 5238	LOW - 133 MED - 114		
						LUMEN FX - LITHONIA	CPX-2X4-AL08-SWWW7-UVOLT-M2										
						JTH LTG - COLUMBIA	CBT-24-A-LSCS-EDD-2PK										
						PULSE PRODUCTS - ORACLE LTG	22-FPL-BL-LED-4000L/5000L/6000L-DIM10-MVOLT-35K/40K/50K-85										
AE	2'x4', 4000L - 6000L FLAT PANEL LED WITH EMERGENCY BATTERY	120/277	LAY-IN	FIELD SELECTABLE 3500K 4000K 5000K	LOW-PROFILE, EXTRUDED ALUMINUM FRAME, BACK LIT LED, SATIN WHITE LENS, DIMMABLE, FIELD SELECTABLE CCT AND LUMEN OUTPUT	ILLUM SYS - METALUX	24CGTS-L3C3-EL7W	WHITE	80	NO	0.90	LOW - 138 MED - 119	LOW- 30 MED - 52	LOW - 3492 MED - 5238	LOW - 133 MED - 114		
						LUMEN FX - LITHONIA	CPX-2X4-AL08-SWWW7-UVOLT-M2-ILB-CP07-2H-A										
						JTH LTG - COLUMBIA	CBT-22-A-LSCS-EDD-2PK-ELL14										
						PULSE PRODUCTS - ORACLE LTG	22-FPL-BL-LED-4000L/5000L/6000L-DIM10-MVOLT-35K/40K/50K-0-EMG-LED-10W										
2'X2' LED RECESSED CONTRACTOR SERIES FLAT PANEL - BACK LIT																	
C	2'x2', 2000L - 4000L FLAT PANEL LED	120/277	LAY-IN	FIELD SELECTABLE 3500K 4000K 5000K	LOW-PROFILE, EXTRUDED ALUMINUM FRAME, BACK LIT LED, SATIN WHITE LENS, DIMMABLE, FIELD SELECTABLE CCT AND LUMEN OUTPUT	ILLUM SYS - METALUX	22CGTS-L3C3	WHITE	80	NO	0.90	LOW - 105 MED - 105 HIGH - 107	LOW - 20 MED - 30 HIGH - 39	LOW - 1746 MED - 2619 HIGH - 3492	LOW - 100 MED - 100 HIGH - 102		
						LUMEN FX - LITHONIA	CPX-2X2-AL07-SWWW7-UVOLT-M4										
						JTH LTG - COLUMBIA	CBT-22-A-LSCS-EDD-2PK										
						PULSE PRODUCTS - ORACLE LTG	24-FPL-BL-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-85										
CE	2'x2', 2000L - 4000L FLAT PANEL LED WITH EMERGENCY BATTERY	120/277	LAY-IN	FIELD SELECTABLE 3500K 4000K 5000K	LOW-PROFILE, EXTRUDED ALUMINUM FRAME, BACK LIT LED, SATIN WHITE LENS, DIMMABLE, FIELD SELECTABLE CCT AND LUMEN OUTPUT	ILLUM SYS - METALUX	22CGTS-L3C3-EL7W	WHITE	80	NO	0.90	LOW - 105 MED - 105 HIGH - 107	LOW - 20 MED - 30 HIGH - 39	LOW - 1746 MED - 2619 HIGH - 3492	LOW - 100 MED - 100 HIGH - 102		
						LUMEN FX - LITHONIA	CPX-2X2-AL07-SWWW7-UVOLT-M4-ILB-CP07-2H-A										
						JTH LTG - COLUMBIA	CBT-22-A-LSCS-EDD-2PK-ELL14										
						PULSE PRODUCTS - ORACLE LTG	24-FPL-BL-LED-2000L/3000L/4000L-DIM10-MVOLT-35K/40K/50K-0-EMG-LED-10W										
EXIT/EMERGENCY EGRESS LIGHTS																	
EX	LED SINGLE/DOUBLE-SIDED EXIT LIGHT WITH BATTERY	120/277	SURFACE	INTEGRAL LED	HIGH-IMPACT RESISTANT THERMOPLASTIC HOUSING, RED LETTERS, SELF DIAGNOSTICS	LUMEN FX - LITHONIA	LRP-X-RMR-X-120/277-ELN	ALUMINUM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
LED SURFACE LIGHTS - LINEAR, STRIPS, WRAPS AND DISKS																	
F44	4' 4000L LOW-PROFILE STEEL STRIP FIXTURE	120/277	SURFACE	INTEGRAL LED, 3500K UNO	FORMED FROM COLD ROLLED STEEL, FROST DIFFUSER LENS	ILLUM SYS - METALUX	4SNLED-LD5-41SL-LW-UNV-L835-CD1	WHITE	80	NO	0.90	114	36	3,492	110		
						LUMEN FX - LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-WH										
						JTH LTG - COLUMBIA	MPS-4-35-LW-F-W-ED-UJ										
						PULSE PRODUCTS - ORACLE LTG	4-OC4-LED-4000L-DIM10-MVOLT-35K-85-WH										
F44E	4' 4000L LOW-PROFILE STEEL STRIP FIXTURE, WITH INTEGRAL EMERGENCY BATTERY	120/277	SURFACE	INTEGRAL LED, 3500K UNO	FORMED FROM COLD ROLLED STEEL, FROST DIFFUSER LENS	ILLUM SYS - METALUX	4SNLED-LD5-41SL-LW-UNV-EL14W-L835-CD1	WHITE	80	NO	0.90	114	36	3,492	110		
						LUMEN FX - LITHONIA	ZL1N-L48-5000LM-FST-MVOLT-35K-80CRI-E7W-WH										
						JTH LTG - COLUMBIA	MPS-4-35-LW-F-W-ED-U-ELL14										
						PULSE PRODUCTS - ORACLE LTG	4-OC4-LED-4000L-DIM10-MVOLT-35K-85-WH-O-EMG-LED-10W										
LED WALL/SURFACE FIXTURES - VANITY AND STAIRWELL LIGHTS																	
GV2	2', 2000L LINEAR VANITY FIXTURE	120/277	SURFACE	INTEGRAL LED, 3500K UNO	WHITE SMOOTH ACRYLIC DIFFUSER	PULSE PRODUCTS - ELITE	OLS-WD-LED-4-S-2-1000L-DIM10-MVOLT-35K-85-BK	BLACK	80	NO	0.90	83	25	1,746	80		
LED RECESSED DOWNLIGHTS																	
H40	4" AJUSTABLE LUMEN/CCT DOWNLIGHT (SET TO 750 LUMEN)	120/277	RECESSED	INTEGRAL LED, 3500K UNO	OPEN, SEMI-SPECULAR CLEAR REFLECTOR, SELF-FLANGED TRIM, WIDE DISTRIBUTION, WET LOCATION LISTED, 0-10V DIMMABLE			WHITE	80	N/A	0.90	73	15	960	70	1	
						PULSE PRODUCTS - MAXILUME	RPL437-DIM10/REL437-RT-CL-WH										
H41	4" AJUSTABLE LUMEN/CCT DOWNLIGHT (SET TO 1100 LUMEN)	120/277	RECESSED	INTEGRAL LED, 3500K UNO	OPEN, SEMI-SPECULAR CLEAR REFLECTOR, SELF-FLANGED TRIM, WIDE DISTRIBUTION, WET LOCATION LISTED, 0-10V DIMMABLE			WHITE	80	N/A	0.90	73	15	960	70	1	
						PULSE PRODUCTS - MAXILUME	RPL437-DIM10/REL437-RT-CL-WH										
LED SURFACE/PENDANT NARROW LINEAR SLOT LIGHTS																	
P1	5"W x 9"H WALL MOUNT SCONCE LIGHT, 900 LUMENS	120	SURFACE	INTEGRAL LED, 3000K	ALUMINUM HOUSING, SOLITE LENS	LUMINIS	SQ405-LIL15-R30-120V-BKT	BLACK	85	NONE	0.90	71	13	807	68	1	
						ILLUM SYS - AMERICAN LINEAR LTG	3S-4-LD-35-UNV-MOUNTING-BLK-EM1										
PA-44	3-4 INCH WIDE x 44FT, LENSED SLOT FIXTURE, FLAT STEEL, 500 LUMENS/FT & 4.5 W/FT EMERGENCY BATTERY	120/277	PENDANT	INTEGRAL LED, 3500K UNO	WHITE STEEL, CHROME OR WHITE REFLECTOR WITH MATT WHITE OR OPAL DIFFUSER			BLACK	80	NONE	0.90	111	19	1,746	107	2	
						ILLUM SYS - AMERICAN LINEAR LTG	3S-4-LD-35-UNV-MOUNTING-BLK-EM1										
PA-48	3-4 INCH WIDE x 48FT, LENSED SLOT FIXTURE, FLAT STEEL, 500 LUMENS/FT & 4.5 W/FT EMERGENCY BATTERY	120/277	PENDANT	INTEGRAL LED, 3500K UNO	WHITE STEEL, CHROME OR WHITE REFLECTOR WITH MATT WHITE OR OPAL DIFFUSER			BLACK	80	NONE	0.90	111	19	1,746	107	2	
						ILLUM SYS - AMERICAN LINEAR LTG	3S-4-LD-35-UNV-MOUNTING-BLK-EM1										
LED PARKING AND AREA/SITE LIGHTS																	
P1-2	LOW-PROFILE AREA/SITE LED, SINGLE HEAD, TYPE II, 4500 LUMENS, PEDESTRIAN SCALE	120/277	P-SSS	INTEGRAL LED, 4000K U.N.O.	DIE-CAST ALUMINUM, SINGLE ARM MOUNT, TYPE II DISTRIBUTION, B1-U0-G1 BUG RATING, 4000K CCT, 45LBS, 1.30 EPA	LUMEN FX - LITHONIA	DSX0 LED-P1-40K-T2M-MVOLT-SPA-DOBXD	DARK BRONZE	70	CLEAR OR NONE	0.90	129	36	3,929	123	1	
P1-4A	LOW-PROFILE AREA/SITE LED, SINGLE HEAD, TYPE IV, 8500 LUMENS	120/277	PB-SSS	INTEGRAL LED, 4000K U.N.O.	DIE-CAST ALUMINUM, SINGLE ARM MOUNT, TYPE IV FORWARD THROW DISTRIBUTION, B1-U0-G2 BUG RATING, 4000K CCT, 45LBS, 1.30 EPA	LUMEN FX - LITHONIA	DSX1 LED-P2-40K-TFTM-MVOLT-SPA-DBLXD	BLACK	70	CLEAR OR NONE	0.90	121	72	7,421	117	1	





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KOA - RAPID CITY OFFICE
ELECTRICAL SCHEDULES

Project: _____
number: 3017
date: 08/05/2024
revision: _____
drawn: BR5 checked: SJT

NO.	DATE	DESCRIPTION
1	8/8/24	ADDENDUM #1
2	8/30/24	ADDENDUM #2

9.41



LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	FIXTURE DESCRIPTION (FEATURES)	VOLTS	MOUNTING	LAMPS	CONTROL MEDIA: LENS, LOUVERS, ETC.	MFR.	CATALOG NUMBER	FIXTURE COLOR/ FINISH	MIN. FIXTURE CRI	UV LENS OR LAMP COVER	LIGHT LOSS FACTOR (5% TOL.)	DESIGNED FIXTURE EFFICACY	MAX WATTS INTO FIXTURE	MIN. LUMENS OUT OF FIXTURE	MIN. RESULTANT EFFICACY	SPECIFIC NOTES
P2-1A/2A	LOW-PROFILE AREA/SITE LED, TWIN HEAD, TYPE II, 8500 LUMENS PER HEAD	120/277	PB-SSS 	INTEGRAL LED, 4000K U.N.O.	DIE-CAST ALUMINUM, TWIN ARM MOUNT	LUMEN FX - LITHONIA	DSX1 LED-P2-40K-T1S-MVOLT-SPA-DBLXD & DSX1 LED-P2-40K-T2M-MVOLT-SPA-DBLXD	BLACK	70	CLEAR OR NONE	0.90	121	72	7,421	117	1
P2-2B/4B	LOW-PROFILE AREA/SITE LED, TWIN HEAD, TYPE II, 12,500 LUMENS PER HEAD	120/277	PB-SSS	INTEGRAL LED, 4000K U.N.O.	DIE-CAST ALUMINUM, TWIN ARM MOUNT	LUMEN FX - LITHONIA	(1) DSX1 LED-P3-40K-T2M-MVOLT-SPA-DBLXD & DSX1 LED-P3-40K-TFTM-MVOLT-SPA-DBLXD	BLACK	70	CLEAR OR NONE	0.90	123	105	11,250	118	1
POLES FOR PARKING AND AREA/SITE LIGHTS																
P-SSS	12' SQUARE STRAIGHT STEEL, GROUND LUG, VIBRATION DAMPER	-----	RAISED BASE	-----	14' MOUNTING HEIGHT, 4" MIN SHAFT SIZE, 100 MPH MAX EPA OF 8.7 SQUARE FEET, 100LBS MAX FIXTURE LOAD	LUMEN FX - LITHONIA	SSS-12-4C-(ARMS)-VD-DBBXD	DARK BRONZE	-----	-----	-----	-----	-----	-----	-----	2,3
PB-SSS	25' SQUARE STRAIGHT STEEL, GROUND LUG, VIBRATION DAMPER	-----	RAISED BASE	-----	25' MOUNTING HEIGHT, 5" MIN SHAFT SIZE, 100 MPH MAX EPA OF 3.5 SQUARE FEET, 200LBS MAX FIXTURE LOAD	LUMEN FX - LITHONIA	SSS-25-5C-(ARMS)-VD-DBBXD	DARK BRONZE	-----	-----	-----	-----	-----	-----	-----	3
EXTERIOR SCONCE LIGHTS																
SCUD	5"W x 12"H WALL MOUNT SCONCE LIGHT, 2300 LUMENS UP/DOWN ILLUMINATION	120	SURFACE	INTEGRAL LED, 3000K	ALUMINUM HOUSING, SOLITE LENS	LUMINIS	SQ602-L2L25-R15-120V-BKT-SLU-SLD	BLACK	85	NONE	0.90	92	26	2,008	88	1
SCUDE	5"W x 12"H WALL MOUNT SCONCE LIGHT, 2300 LUMENS UP/DOWN ILLUMINATION W/ EMERGENCY BATTERY	120	SURFACE	INTEGRAL LED, 3000K	ALUMINUM HOUSING, SOLITE LENS	LUMINIS	SQ602-L2L25-R15-120V-BKT-SLU-SLD	BLACK	85	NONE	0.90	92	26	2,008	88	1
W2	5"W x 12"H WALL MOUNT SCONCE LIGHT, 1600 LUMENS	120	SURFACE	INTEGRAL LED, 3000K	ALUMINUM HOUSING, SOLITE LENS	LUMINIS	SQ600-L1L15-R30-120V-BKT	BLACK	85	NONE	0.90	100	16	1,397	96	1
W2E	5"W x 12"H WALL MOUNT SCONCE LIGHT, 1600 LUMENS W/ EMERGENCY BATTERY	120	SURFACE	INTEGRAL LED, 3000K	ALUMINUM HOUSING, SOLITE LENS	LUMINIS	SQ600-L1L15-R30-120V-BKT-REML2-50	BLACK	85	NONE	0.90	100	16	1,397	96	1

GENERAL NOTES:

A. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS LISTED, PROPOSED ALTERNATE MANUFACTURERS' FIXTURE CUTSHEETS AND PHOTOMETRIC REPORTS MUST BE SUBMITTED TO THE ENGINEER AT LEAST 10 DAYS PRIOR TO BID DATE. IF THE SUBMITTED FIXTURE IS DETERMINED NOT TO BE EQUAL OR BETTER BY THE ENGINEER IT WILL NOT BE APPROVED BY ADDENDUM.

B. TYPES A, B, & C FIXTURES SHALL BE FIELD ADJUSTABLE. THE EC SHALL COMMISSION TYPES A, B AND C. COLOR TEMPERATURE TO 3500K UNLESS ADJUSTED VIA "X" INDICATED ON PLAN ADJACENT TO THE FIXTURE. FIXTURES POWER/LUMENS SHALL BE ADJUSTABLE FOR LOW, MEDIUM AND HIGH OUTPUT. THE DEFAULT OUTPUT SETTING SHALL BE SET TO THE LOW POWER/OUTPUT SETTING AS DEFINED IN THIS SCHEDULE. INCREASED SETTING - FOR EACH "+" BEHIND THE FIXTURE TYPE, INCREASE THE FIXTURE OUTPUT IN THAT FIXTURE TO THE NEXT OUTPUT LEVEL. I.E., FOR TYPE B+, COMMISSION THE OUTPUT TO THE THIRD OUTPUT LEVEL INDICATED IN THIS SCHEDULE FOR THAT FIXTURE TYPE. SEE LIGHTING PLANS FOR SETTINGS.

C. ALL FIXTURES TO BE 120/277V UNLESS NOTED AS ONE VOLTAGE. WHEN THE VOLTAGE IS INDICATED AS 120/277, PROVIDE MULTIVOLT BALLASTS CAPABLE OF OPERATING AT 120V OR 277V.

D. ALL FIXTURES/LAMPS TO BE 2700K, 3000K, 3500K OR 4000K +/- 5%, AS INDICATED. ALL PROPOSED EQUALS MUST HAVE ESSENTIALLY EQUAL OPTICS/PATTERN.

E. U.N.O., ALL INTEGRAL LED FIXTURE TYPES SHALL ACCEPT A 0-10Vdc DIMMING INPUT.

F. VERIFY CEILING TYPE WITH ARCHITECTURAL PLANS PRIOR TO ORDERING FIXTURES.

G. "NL" DENOTES NIGHT-LIGHT FIXTURE IS ON A 24/7 CIRCUIT.

H. COLOR FINISHES SHALL BE PER SCHEDULE. IF ANY COLOR IS UNAVAILABLE OR A COLOR SHIFT IS REQUIRED, CONFIRM FINISHES/COLOR WITH ARCHITECT PRIOR TO RELEASE.

I. FOR PENDANT-MOUNTED FIXTURES, CONFIRM MOUNTING HARDWARE, SUSPENSION TYPE/MATERIAL, AND SUSPENSION LENGTHS REQUIRED PRIOR TO ORDERING FIXTURES.

SPECIFIC NOTES:

1. LISTED FOR WET LOCATION.

2. TANDEM-MOUNT FIXTURE. PROVIDE NECESSARY ENDS AND CONNECTIONS FOR CONTINUOUS ROW MOUNTING. LENGTH AS INDICATED ON DRAWINGS.

3. PROVIDE POLE WITH VIBRATION DAMPENING SYSTEM.

OCCUPANCY SENSOR SCHEDULE

TYPE	TECH-NOLOGY	MINIMUM SENSOR COVERAGE	GENERAL APPLICATION	FEATURES	VOLTS	MOUNTING	MANUFACTURER	CATALOG NUMBER	TIME-OFF DELAY	TYPICAL COMMISSIONED AUTO/MANUAL-ON MODE	POWER BASE OR PACK	NOTES & REMARKS
SENSORS												
CM3	MULTI-TECH	1500 SQ FT @ 360 deg.	OFFICE W/ CUBICLES, CLASSROOMS, CAFETERIAS	---	24VDC	CEILING	LEVITON	OSC20-MOW	10-30 MIN ADJUSTABLE COMMISSION TO: 10 MIN.	AUTO-ON	BASE OR PACK	
XM	MULTI-TECH	1000 SQ FT @ 180 deg.	OFFICE AND STORAGE AREAS	SINGLE-POLE RELAY	120/277VAC	WALL SWITCH	LEVITON	OSSMT-MD	10-30 MIN ADJUSTABLE COMMISSION TO: 10 MIN.	AUTO-ON	NO	
XP	PIR	1600 SQ FT @ 180 deg.	SMALL OFFICES, CONFERENCE ROOMS, LOUNGES, STORAGE, PRIVATE RESTROOMS	SINGLE-POLE RELAY	120/277VAC	WALL SWITCH	LEVITON	ODS15-ID	10-30 MIN ADJUSTABLE COMMISSION TO: 10 MIN.	AUTO-ON	NO	
SENSOR ACCESSORIES												
PB	---	---	COMPATIBLE WITH ANY LEVITON LOW-VOLTAGE SENSOR	POWER BASE (40mA OUTPUT)	120/277VAC	CEILING BOX	LEVITON	OPB15-oDW	---	---	---	
PP	---	---	COMPATIBLE WITH ANY LEVITON LOW-VOLTAGE SENSOR	POWER PACK (150mA OUTPUT)	120/220/277VAC	JUNCTION BOX	LEVITON	OPP20-0D2	---	---	---	

GENERAL:

A. SENSOR WIRING SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

B. PROVIDE POWER PACKS, POWER BASES AND ADD-A-RELAYS PER SCHEDULE OR AS REQUIRED BY APPROVED SENSOR MANUFACTURER. POWER PACKS AND RELAYS SHALL BE INSTALLED IN J-BOX ABOVE ACCESSIBLE CEILING.

C. FOR ROOMS UTILIZING DUAL-LEVEL SWITCHING, CONNECT THE OCCUPANCY SENSOR'S PRIMARY CONTACT TO OUTBOARD LAMPS.

D. WHERE SWITCHES ARE SHOWN ON PLANS IN CONJUNCTION WITH AN OCCUPANCY SENSOR, THE SENSOR SHALL REMAIN UNSWITCHED AND THE SWITCHES WIRED AS AN OVERRIDE OFF.

E. LEVITON CEILING TYPE OCCUPANCY SENSORS MUST BE INSTALLED IN AN OCTAGON BACKBOX. THE LEVITON RING WILL NOT COVER A STANDARD 4 SQUARE BOX.

F. WHERE HVAC CONTROLS ARE INTERLOCKED WITH OCCUPANCY SENSORS, EACH HEAD SHALL BE INTERLOCKED TO THE HVAC UNIT. ANY OCCUPANCY ENABLES HVAC.