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ADDENDUM NO. 5

Date: 09/23/2026
Project Name: North Fork WWTP
Owner: City of Liberty Hill
Garver Project No: W07-2401219

This addendum shall be a part of the Plans, Contract Documents and Specifications to the same extent as though it were originally included therein, and it shall supersede anything contained in the Plans, Contract Documents, and Specifications with which it might conflict. This addendum, including all attachments, shall become part of the Contract and all provisions of the Contract shall apply thereto. The time provided for completion of the Contract has not been changed as noted in this addendum. Acknowledgement of receipt of this addendum must be noted in the appropriate section of the Bid Form and included with the Contract Documents.

A. SPECIFICATIONS – Volume 1 and Volume 2

1. Remove the following specification section in its entirety:
 - a. 00 75 00 – TWDB CWSRF EQ Funding Documents, including all TWDB forms and attachments (TWDB-0550, TWDB-0559, ED-101, ED-103, ED-104, SRF-404, TWDB-0217, TWDB-1106-A, TWDB-1106-B, TWDB-1110-A, and DB-0154).
2. Remove the following specification sections in their entirety, and replace them with the same, attached hereto:
 - a. 00 41 16 – List of Manufacturers
 - b. 03 30 00 – Cast-in-Place Concrete
3. Remove Section 00 43 43 – Wage Rate Placeholder in its entirety and replace with Section 00 43 43 – Wage Determinations, attached hereto, consisting of the following U.S. Department of Labor general wage determinations:
 - a. Heavy Construction: General Decision Number TX20260023, Modification No. 1, dated May 18, 2026, Williamson County, Texas.
 - b. Building Construction: General Decision Number TX20260275, Modification No. 1, dated May 18, 2026, Williamson County, Texas.
 - c. Add the following paragraph at the beginning of the Section:

The following wage determinations are made part of the Contract. The Heavy wage determination applies to site work, yard piping, and process structures. The Building wage determination applies to the Administration Building, Electrical Building, and Dewatering Building. Labor classifications not listed in

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the applicable wage determination require a conformance request in accordance with 29 CFR 5.5(a)(1)(iii). The wage determinations are effective by operation of law whether or not attached to subcontracts, and Contractor shall include them in all subcontracts.

4. Revise Section 00 11 00 – Advertisement for Proposals as follows:

- a. Delete the paragraph beginning “Davis Bacon Act wage rules may apply if the Owner elects to use state or federal funding...” and replace with the following paragraph:

Funding Notice: Funding Notice: This Project is intended to be funded in part by the U.S. Environmental Protection Agency (EPA) under the Water Infrastructure Finance and Innovation Act (WIFIA). WIFIA financing has not been obtained as of the date of Addendum No. 5. Owner is not pursuing Texas Water Development Board funding. The following federal requirements apply to this Project: Debarment and Suspension, restrictions on lobbying, Civil Rights and nondiscrimination regulations, Equal Employment Opportunity, American Iron and Steel requirements, Davis-Bacon wage rates, and prohibitions on certain telecommunications and video surveillance services and equipment. Refer to Article 26 of Section 00 21 00 and Section 00 75 10 for detailed information. All laborers and mechanics employed by Contractor and Subcontractors shall be paid wages at rates not less than those contained in the wage determinations included in Section 00 43 43, and Contractor shall comply with all applicable Equal Employment Opportunity laws and regulations.

5. Revise Section 00 21 00 – Instructions to Offerors as follows:

- a. Revise Article 23 – Wage Rates by adding the following paragraph 23.03:
- 1) Wage rates shall be not less than those contained in the wage determinations included in Section 00 43 43.
- b. Revise paragraph 24.03.B by deleting “...not to exceed ten (10) pages...” and replacing with “...not to exceed fifteen (15) pages...”
- c. Add the following Article 26 after Article 25:

ARTICLE 26—FEDERAL FUNDING, DOMESTIC PREFERENCE, AND WAGES

26.01 Funding Status. Owner is in the process of applying for financing from EPA under WIFIA. WIFIA financing has not been obtained as of the date of Addendum No. 5. Owner is not pursuing Texas Water Development Board funding, and no TWDB forms, conditions, or requirements apply.

26.02 American Iron and Steel (AIS). Offerors shall include in the Proposal price all costs to furnish and document AIS-compliant iron and steel products as required by Section 00 75 10 and Section 01 60 00.

26.03 Build America, Buy America (BABA). Offerors shall not include costs for BABA compliance in the Proposal. Owner plans to obtain coverage under the WIFIA Program Waiver of Section 70914(a) of P.L. 117-58, Build America, Buy America Act, for Projects in Design Planning (June 22, 2022). That waiver does not waive the AIS requirement. If the waiver is not obtained or is determined not to apply to the Project, BABA compliance costs will be addressed as provided in Paragraph SC-18.17 of Section 00 73 00.



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26.04 Wages. Wage rates shall be not less than those contained in the wage determinations included in Section 00 43 43. Where both federal and Texas prevailing wage requirements apply, the higher rate for the equivalent labor classification shall be paid.

6. Revise Section 00 22 13 – Offeror’s Checklist of Required Items as follows:

- a. Delete the sentences “Note that State funding has been applied for but has not been obtained as of Project advertisement. State funding forms are required regardless.” and replace with “Note that WIFIA financing is being applied for but has not been obtained as of the date of Addendum No. 5.”
- b. Delete item 6 “Davis Bacon Wage Rates – 00 43 43” and replace with “6. Acknowledgement of Wage Determinations – 00 43 43”.
- c. Delete item 8, State Funding Forms, and all of its sub-items in their entirety, and renumber item 9, WIFIA Federal Requirements (00 75 10), as item 8.

7. Revise Section 00 41 00 – Proposal Form C-410 as follows:

- a. Revise Item 3 in Table 4.01.A by deleting “Pre-negotiated Price: \$992,000” and replacing with “Pre-negotiated Price: \$526,000”
- b. Revise Item 4 in Table 4.01.A by deleting “Pre-negotiated Price: \$1,195,000” and replacing with “Pre-negotiated Price: \$1,175,000.”
- c. Delete Table 4.01.D and replace it with the following:

Work Change Directives (miscellaneous work on a change authorization basis) required during completion of the Project to be used solely at the discretion of the Owner.	\$5,500,000
Total for all Lump Sum Contingency Allowances	\$5,500,000

- d. Revise paragraph 4.01.D by adding the following sentence at the end of the paragraph:
- e. The Contingency Allowance may also be used for BABA Compliance Adjustments as described in Paragraph SC-18.17 of Section 00 73 00.
- f. Add paragraph 4.01.E as follows:
 - 1) The Lump Sum Proposal Price includes all costs for compliance with the American Iron and Steel requirement, including documentation, as described in Section 00 75 10. The Lump Sum Proposal Price does not include costs for compliance with the Build America, Buy America Act.
- g. Revise paragraph 7.01.13 by deleting: “...the Offeror understands that the proposal is subjected to...”, and replacing with: “...the Offeror understands that the proposal may be subjected to...”
- h. Add paragraphs 7.01.A.14, 7.01.A.15, and 7.01.A.16 as follows:

Offeror has read Section 00 75 10 and will furnish iron and steel products produced in the United States as required by the Contract Documents.

Offeror has not included costs for Build America, Buy America Act compliance in this Proposal.

Offeror has reviewed the wage determinations included in Section 00 43 43 and has based its Proposal on payment of wages not less than those rates.

- i. Add paragraph 7.02.A.7 as follows:

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- 1) Neither Offeror nor any of its principals is debarred, suspended, or excluded from participation in federal assistance programs (2 CFR Parts 180 and 1532), and Offeror will require the same certification from its Subcontractors.
8. Revise Section 00 52 00 – Agreement (Stipulated Price) C-520 as follows:
 - a. Add paragraph 4.03.A.4 as follows:
 - 1) For Milestone 3, the Contractor shall have the plant ready for influent. The Owner is responsible for sending influent to the plant.
 - b. Revise paragraph 4.04.A.1 by deleting “Contractor shall pay Owner \$1,500...” and replacing with: “Contractor shall pay Owner \$3,500...”
 - c. Delete paragraph 4.05.
9. Revise Section 00 73 00 – Supplementary Conditions C-800 as follows:
 - a. Revise Paragraph SC-18.16 by adding the following paragraph B:
 - 1) The wage rates referred to in this Paragraph are those contained in the wage determinations included in Section 00 43 43. Where both federal and Texas prevailing wage requirements apply, the higher rate for the equivalent labor classification shall be paid.
 - b. Add the following Paragraph SC-18.17 after Paragraph SC-18.16:

BABA Compliance Adjustment

A. If the WIFIA program determines that the Project is not covered by the WIFIA Program Waiver of Section 70914(a) of P.L. 117-58 for Projects in Design Planning (June 22, 2022), or the waiver is otherwise unavailable, Owner will notify Contractor in writing.

B. Following such notice, Contractor may submit a Change Proposal for the documented net increase in cost, and any Contract Time impact, directly attributable to furnishing manufactured products that comply with the Build America, Buy America Act and that were not otherwise required by the American Iron and Steel requirement.
 - c. Delete paragraph 1.01.60 and replace with the following paragraph 1.01.60:
 - 1) “*Owner's Representative - Pape-Dawson*”.
10. Revise Section 00 75 10 – WIFIA Federal Requirements as follows:
 - a. Delete the introductory paragraphs and replace with the Funding Notice in Paragraph 26.01 of Section 00 21 00. Delete all references to Section 00 75 00, State Funding Documentation, and the TWDB CWSRF Equivalency Documents.
 - b. Delete the American Iron and Steel; Build America, Buy America; Labor Laws and Standards; Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment; Debarment and Suspension; New Restrictions on Lobbying; Civil Rights and Nondiscrimination; and Equal Employment Opportunity articles in their entirety and replace with the EPA WIFIA Specification Package and Bid Contract Language (May 2025), attached hereto as Exhibit 1, which is incorporated in full. Where Exhibit 1 contains a blank or bracketed reference to the Purchaser, Borrower, Owner, or the recipient of Federal assistance, the reference shall be read as "City of Liberty Hill." Where Exhibit 1 contains a blank or bracketed reference to the [Project], the reference shall be read as "North Fork

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Wastewater Treatment Plant." Where Exhibit 1 contains a blank or bracketed reference to the contracting agency or the Federal agency, the reference shall be read as follows:

In Paragraphs (a)(2)(i) (both references) and (b)(3)(i) of the Labor Laws and Standards article: "City of Liberty Hill (Owner)".

In all other instances, including Paragraphs (a)(3)(ii)(A), (a)(3)(iv)(A), (a)(3)(iv)(C), (a)(6), and (c) of the Labor Laws and Standards article: "U.S. Environmental Protection Agency (EPA)".

- c. Correct the end-of-section footer from "END OF SECTION 00 76 10" to "END OF SECTION 00 75 10".

11. Revise Section 01 10 00 – Summary as follows:

- a. Delete paragraph 1.6.
- b. Delete paragraph 1.3.A.7 and replace with the following paragraph 1.3.A.7:
 - 1) WIFIA financing is being applied for but has not been obtained as of the date of Addendum No. 5. See Section 00 75 10.

12. Revise Section 01 14 00 – Work Restrictions as follows:

- a. Revise paragraph 1.3.E.1 by deleting "...40 dBA" and replacing with "...80 dBA".
- b. Delete paragraph 1.4.B
- c. Revise paragraph 1.11.A.7 by deleting "...928-935 ft..." and replacing with "928-975 ft..."

13. Revise Section 01 20 00 – Price and Payment Procedures as follows:

- a. Revise paragraph 1.2.A.2 by deleting "...Appendix B..." and replacing with "...Appendix C..."
- b. Revise paragraph 1.2.A.3 by deleting "...Appendix C..." and replacing with "...Appendix B..."
- c. Revise paragraph 1.6.E.2 by adding the following sub-paragraphs:
 - g. AIS certifications for covered iron and steel products included in the Application for Payment.
 - h. Monthly American Iron and Steel Certificate, in the form attached hereto, executed by Contractor, submitted with each Application for Payment for Work involving AIS-covered products.

14. Revise Section 01 33 00 – Submittal Procedures as follows:

- a. Add paragraph 1.3.N as follows:
 - 1) Submittals shall be separated by specification section and by type. Each submittal shall include a copy of all applicable specification sections, with addendum updates included, with each paragraph check-marked to indicate specification compliance or marked to indicate requested deviations from specification requirements or those parts which are to be provided by the Contractor or others. Check marks shall denote full compliance with a paragraph as a whole. If deviations from the specifications are indicated, and therefore requested by the Contractor, each deviation shall be underlined and denoted by number and shall reference a detailed written explanation of the reasons for requesting the deviation. The Engineer shall be the final authority for determining acceptability of requested deviations. The remaining portions of the paragraph not underlined will signify compliance on the part of the Contractor with the specifications. Failure to include a copy of the

marked-up specification sections, along with justification(s) for any requested deviations shall be cause for rejection of the entire submittal.

- b. Add the following paragraph 1.16:

1.16 AMERICAN IRON AND STEEL CERTIFICATIONS

A. Action Submittal: Submit written manufacturer certification with Product Data or Shop Drawings for each iron and steel product covered by the American Iron and Steel requirement in Section 01 60 00, identifying the product, the Project, and the location of manufacture.

B. DO NOT ship covered products to the Site or incorporate covered products into the Work until the certification has been accepted by Engineer.

C. Submit a list of proposed de minimis items for Owner approval as described in Section 01 60 00.

15. Revise Section 01 50 00 – Temporary Facilities and Controls as follows:

- a. Revise paragraph 1.13.C.1 by deleting "...up to two full-time individuals." and replacing with "...up to four full-time individuals."

16. Revise Section 01 60 00 – Product Requirements as follows:

- a. Delete paragraph 1.2.D and replace with the following paragraph 1.2.D:

1) Domestic Products: Domestic preference on this Project is limited to the American Iron and Steel requirement in Paragraph 1.2.H. No other domestic-product requirement applies unless a specific Section states otherwise.

- b. Add the following paragraph 1.2.H:

H. American Iron and Steel (AIS):

1. Iron and steel products permanently incorporated into the Work shall be produced in the United States in accordance with 33 U.S.C. 3914 and Section 00 75 10.

2. Covered products, when primarily iron or steel (greater than 50 percent by material cost), are: lined or unlined pipes and fittings; manhole covers and other municipal castings; hydrants; tanks; flanges; pipe clamps and restraints; valves; structural steel; reinforced precast concrete; and construction materials.

3. De minimis incidental components may be used only with prior written approval of Owner, and only where the EPA national de minimis criteria are met (each item less than 1 percent of unit cost and the total less than 5 percent of total material cost).

4. Submit AIS certifications as specified in Section 01 33 00. Maintain AIS records for three (3) years after completion of the Project.

17. Revise Section 01 77 00 – Closeout Procedures as follows:

- a. Revise paragraph 1.2.C.2 by adding the following sub-paragraphs:

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- h. Complete set of AIS certifications and records for covered iron and steel products.
 - i. Final American Iron and Steel Certificate, in the form attached hereto, executed by Contractor.
18. Revise Section 31 23 16.20 – Rock Excavation as follows:
- a. Delete paragraph 3.2.
19. Revise Section 43 42 56.29 – Wet-Pit Submersible Pumps as follows:
- a. Delete paragraph 3.3.D.
20. Revise Sections 43 42 56.29.1 – ILS Main Submersible Pumps Data Sheet as follows:
- a. In the Equipment Description Table, for the Impeller row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “CF8M Stainless Steel, ASTM A351, or A 532 II C 15 % CrMo-Hc, or Ni-hard”
 - b. In the Equipment Description Table, for the Wear Rings row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “Same material as impeller”
21. Revise Sections 43 42 56.29.2 – ILS Jockey Submersible Pumps Data Sheet as follows:
- a. In the Equipment Description Table, for the Impeller row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “CF8M Stainless Steel, ASTM A351, or A 532 II C 15 % CrMo-Hc, or Ni-hard”
 - b. In the Equipment Description Table, for the Wear Rings row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “Same material as impeller”
22. Revise Section 46 25 43 – Scum Skimming and Removal Equipment as follows:
- a. Delete Table 2.1.A and replace it with the following:

Location	Aeration Basin No. 1, Aeration Basin No. 2, Aeration Basin No. 3
Number of units	3
Width of basin, ft (field verify)	36.5
Diameter of rotating weir pipe, in	12
Flow through basin, mgd (AADF)	0.7
Flow through basin, mgd (P2HF)	1.4
Basin Top of Slab Elevations, ft	935.25
Min Water Surface Elevation, ft	956.05
Avg. Waster Surface Elevation, ft	956.25
Max Water Surface Elevation, ft	956.35
Top of Basin Walkway, ft	961.00
Scum Weir Centerline Elevation, ft	956.00 ¹

23. Revise Section 46 42 27.19 – Rotary Drum Screen as follows:
- a. Delete paragraph 2.1.B.3.
24. Revise Section 46 44 63 – Liquid Polymer Feed System as follows:

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- a. Revise the second sentence of paragraph 1.1.B to say “The Volute Dewatering Press equipment supplier shall be responsible for providing the complete system including volute press, sludge conveyors, and ensuring that the polymer feed system can be controlled in full at the volute press system main control panel.”
25. Revise Sections 46 53 49.2 – RAS Pump Data Sheet as follows:
- a. In the Equipment Description Table, for the Impeller row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “CF8M Stainless Steel, ASTM A351, or A 532 II C 15 % CrMo-Hc, or Ni-hard”
 - b. In the Equipment Description Table, for the Wear Rings row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “Same material as impeller”
26. Revise Sections 46 53 49.3 – WAS Pump Data Sheet as follows:
- a. In the Equipment Description Table, for the Impeller row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “CF8M Stainless Steel, ASTM A351, or A 532 II C 15 % CrMo-Hc, or Ni-hard”
 - b. In the Equipment Description Table, for the Wear Rings row, delete: “CF8M Stainless Steel, ASTM A351” and replace with: “Same material as impeller”

B. DRAWINGS - Volume 4

1. Remove the following drawings in their entirety, and replace with the same, attached hereto:
 - a. 06-S101 – ADMIN FACILITY RETAINING WALLS OVERALL
 - b. 06-S102 – MAIN ROAD RETAINING WALLS PLAN
 - c. 06-S103 – ADMIN FACILITY RETAINING WALLS PLAN
 - d. 06-S301 – MAIN ROAD RETAINING WALLS SECTION 1
 - e. 06-S302 – MAIN ROAD RETAINING WALLS SECTION 2
 - f. 20-S305 – SECONDARY HEADWORKS SECTION 5
 - g. 60-A102 – DEWATERING BUILDING REFLECTED CEILING PLAN
 - h. 60-A301 – DEWATERING BUILDING SECTIONS 1
 - i. 60-A303 – DEWATERING WALL BUILDING SECTIONS
 - j. 60-A603 – DEWATERING BUILDING PERSPECTIVE
 - k. 70-A401 – ADMINISTRATION BUILDING ENLARGED PLANS/INTERIOR ELEVATIONS
 - l. 70-A402 – ADMINISTRATION BUILDING INTERIOR ELEVATIONS
 - m. 70-A702 – ADMINISTRATION BUILDING FURNITURE PLAN
 - n. 90-E501 – 85SWG ONE LINE DIAGRAM
2. Revise Drawing 01-G015 – STRUCTURAL NOTES 2 as follows:
 - a. Revise SUBGRADE MODIFICATIONS NOTES 2 by deleting “...SIZE INCHES...” and replacing with “...SIX INCHES...”
3. Revise Drawing 50-P401 – PUMP AND BLOWER PAD ENLARGED PLAN as follows:

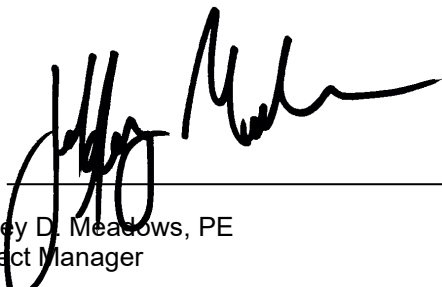
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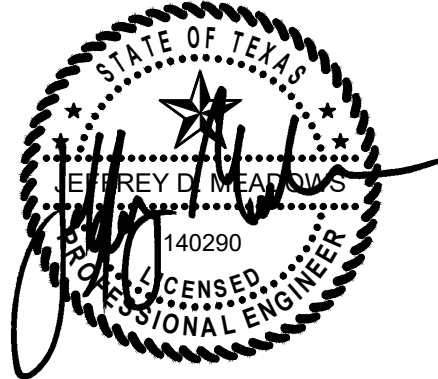
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- a. Revise callout for FUTURE SLUDGE FEED PUMP, NO.1 by deleting "FUTURE"
- b. Revise callout for FUTURE SLUDGE FEED PUMP, NO.2 by deleting "FUTURE"

C. STANDARD DETAILS - Volume 5

1. No items for Standard Details are included in this addendum.

By: 
Jeffrey D. Meadows, PE
Project Manager



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Attachments:

Specifications

00 41 16 – List of Manufacturers

03 30 00 – Cast-in-Place Concrete

Exhibits

Exhibit 1 – WIFIA Specification Package and Bid Contract Language

Drawings

06-S101 – ADMIN FACILITY RETAINING WALLS OVERALL

06-S102 – MAIN ROAD RETAINING WALLS PLAN

06-S103 – ADMIN FACILITY RETAINING WALLS PLAN

06-S301 – MAIN ROAD RETAINING WALLS SECTION 1

06-S302 – MAIN ROAD RETAINING WALLS SECTION 2

20-S305 – SECONDARY HEADWORKS SECTION 5

60-A102 – DEWATERING BUILDING REFLECTED CEILING PLAN

60-A301 – DEWATERING BUILDING SECTIONS 1

60-A303 – DEWATERING WALL BUILDING SECTIONS

60-A603 – DEWATERING BUILDING PERSPECTIVE

70-A401 – ADMINISTRATION BUILDING ENLARGED PLANS/INTERIOR ELEVATIONS

70-A402 – ADMINISTRATION BUILDING INTERIOR ELEVATIONS

70-A702 – ADMINISTRATION BUILDING FURNITURE PLAN

90-E501 – 85SWG ONE LINE DIAGRAM

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END OF ADDENDUM NO. 5



LIST OF MANUFACTURERS

Specification Section	Equipment	Proposed Equipment Manufacturer (Circle One)
26 23 00	Low Voltage Switchgear	1. ABB 2. Cutler-Hammer, Inc.; Eaton Corporation 3. Square D; Schneider Electric
26 24 13	Switchboards	1. Cutler-Hammer, Inc.; Eaton Corporation 2. Square D; Schneider Electric 3. ABB
26 32 13.13	Diesel Engine Generators	1. Caterpillar 2. Cummins 3. Kohler 4. MTU 5. Generac
43 42 56.29	Influent Lift Station Pumps	1. Ebara 2. Flygt 3. KSB 4. Wilo
46 42 27.19	Rotary Drum Screen	1. Parkson 2. Vulcan
46 66 16	Closed Vessel Ultraviolet Disinfection System	1. Xylem/Wedeco 2. Trojan Technologies

SECTION 03 30 00 – CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section Includes:
 - 1. Hydraulic (liquid containing) structures
 - 2. Beams and columns
 - 3. Building walls
 - 4. Retaining walls
 - 5. Foundation walls
 - 6. Footings
 - 7. Suspended slabs
 - 8. Slabs on grade
 - 9. Equipment pads
- B. Related Sections:
 - 1. Section 03 01 00 – Maintenance of Concrete
 - 2. Section 03 15 00 – Concrete Joints and Accessories
 - 3. Section 03 35 00 – Concrete Finishing
 - 4. Section 03 39 00 – Concrete Curing
 - 5. Section 03 64 00 – Concrete Repair Crack Injection

1.2 REFERENCES

- A. ACI (American Concrete Institute):
 - 1. ACI 117 – Specification for Tolerances for Concrete Construction and Materials.
 - 2. ACI 301 – Specifications for Structural Concrete.
 - 3. ACI 305R – Guide to Hot Weather Concreting.
 - 4. ACI 306.1 – Standard Specification for Cold Weather Concreting.
 - 5. ACI 308.1 – Specification for Curing Concrete.
 - 6. ACI 318 – Building Code Requirements for Structural Concrete.
 - 7. ACI 350 – Code Requirements for Environmental Engineering Concrete Structures.
 - 8. ACI 350.1 – Specification for Tightness Testing of Environmental Engineering Concrete Containment Structures.
 - a. Manual of Concrete Practice.
- B. ASTM International:
 - 1. C31 – Standard Practice for Making and Curing Concrete Test Specimens in the Field.
 - 2. C33 – Standard Specification for Concrete Aggregates.
 - 3. C39 – Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens.
 - 4. C42 – Standard Test Method for Obtaining and Testing Drilled Cores and Sawed Beams of Concrete.
 - 5. C94 – Standard Specification for Ready-Mixed Concrete.
 - 6. C143 – Standard Test Method for Slump of Hydraulic-Cement Concrete.
 - 7. C150 – Standard Specification for Portland Cement.
 - 8. C172 – Standard Practice for Sampling Freshly Mixed Concrete.
 - 9. C173 – Standard Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method.
 - 10. C227 – Standard Test Method for Potential Alkali Reactivity of Cement-Aggregate Combinations (Mortar-Bar Method).
 - 11. C231 – Standard Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method.
 - 12. C260 – Standard Specification for Air-Entraining Admixtures for Concrete.

13. C309 – Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
14. C330 – Standard Specification for Lightweight Aggregates for Structural Concrete.
15. C494 – Standard Specification for Chemical Admixtures for Concrete.
16. C595 – Standard Specification for Blended Hydraulic Cements.
17. C618 – Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete.
18. C881 – Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete.
19. C989 – Standard Specification for Slag Cement for Use in Concrete and Mortars.
20. C1012 – Standard Test Method for Length Change of Hydraulic-Cement Mortars Exposed to a Sulfate Solution.
21. C1017 – Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete.
22. C1064 – Standard Test Method for Temperature of Freshly Mixed Hydraulic-Cement Concrete.
23. C1077 – Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation.
24. C1107 – Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Non-Shrink).
25. C1116 – Standard Specification for Fiber-Reinforced Concrete.
26. C1218 – Standard Test Method for Water-Soluble Chloride in Mortar and Concrete.
27. C1240 – Standard Specification for Silica Fume Used in Cementitious Mixtures.
28. C1260 – Standard Test Method for Potential Alkali Reactivity of Aggregates (Mortar-Bar Method).
29. C1315 – Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete.
30. D994 – Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type).
31. D1751 – Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non-Extruding and Resilient Bituminous Types).
32. D1752 – Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction.
33. E96 – Standard Test Methods for Water Vapor Transmission of Materials.
34. E329 – Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection.
35. E1155 – Standard Test Method for Determining F_F Floor Flatness and F_L Floor Levelness Numbers.
36. E1643 – Standard Practice for Selection, Design, Installation, and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs.
37. E1745 – Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs.

1.3 DEFINITIONS

A. Cementitious Materials:

1. Portland cement alone or in combination with one or more of:
 - a. Blended hydraulic cement
 - b. Fly ash and other pozzolans
 - c. Ground granulated blast-furnace slag
 - d. Silica fume
2. Subject to requirements.

B. Cold Weather:

1. Ambient temperature below 40°F or approaching 40°F and falling.

- C. Defective Area:
 - 1. Surface defects, Including:
 - a. Honeycomb
 - b. Rock pockets
 - c. Indentations
 - d. Surface voids greater than 3/16 in. deep
 - 2. Surface voids greater than 3/4 in. diameter
 - 3. Cracks in liquid containment structures and below-grade habitable spaces that are 0.010 in. wide and wider.
 - 4. Cracks in other structures that are 0.015 in. wide and wider.
 - 5. Spalls, chips, embedded debris, lift lines, sand lines, deviations that exceed specified tolerances and include, but are NOT limited to, fins, form popouts, and other projections, stains, and other color variations that can NOT be removed by cleaning.
- D. Exposed Concrete:
 - 1. Concrete surface that can be seen inside or outside of structure regardless of whether concrete is above water, dry at all times, or can be seen when the structure is drained.
- E. Hot Weather:
 - 1. As defined in ACI 305R.
- F. Hydraulic Structure:
 - 1. Liquid containment structure
- G. New Concrete:
 - 1. Less than 60 days old.

1.4 SUBMITTALS

- A. Subject to the requirements of Section 01 33 00 – Submittal Procedures.
- B. Product Data:
 - 1. Submit data for each type of product indicated.
- C. Design Data:
 - 1. Submit concrete mix design for each mix included in the Supplement at the end of this Section.
 - a. Proportions of all materials in the mix, signed by the mix designer
 - b. Average strength per ACI 301
 - c. Manufacturer's Certificate of Compliance as specified in Section 01 60 00 – Product Requirements.
 - d. Cementitious materials
 - e. Admixtures
 - f. Test Reports – chemical analysis, chloride-ion content, shrinkage test results
 - g. Coarse and fine aggregate gradations
 - h. Water to be withheld for later addition at Project site.
 - 2. Detailed plan for placing and curing concrete in cold weather.
 - 3. Detailed plan for placing and curing concrete in hot weather.
 - a. Thermal control plan for concrete sections greater than 2 ft, 6 in.
 - b. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
 - c. Manufacturer Instructions: Submit installation procedures and interfacing required with adjacent Work.
 - d. Field Quality requirements Submittals: Indicate results of Contractor-furnished tests and inspections, including tightness test results and floor surface flatness and levelness measurements.

- D. Ready-Mix Concrete Delivery Tickets
 - a. Record the amount of water added at the Project site on the delivery ticket.
 - b. Location of placement shall be noted on the ticket

1.5 CLOSEOUT SUBMITTALS

- A. Section 01 77 00 – Closeout Procedures specifies requirements for closeout submittals.
- B. Project Record Documents:
 - 1. Record actual locations of embedded utilities and components concealed from view in finished construction.

1.6 QUALITY ASSURANCE

- A. Include this Article to specify compliance with overall reference standards affecting products and installation included in this Section.
- B. Perform Work as specified in ACI 301 and ACI 117.
- C. See ACI 305R when placing concrete during hot weather.
- D. See ACI 306.1 when placing concrete during cold weather.
- E. Obtain each type or class of cementitious material from a single source, obtain aggregate from a single source and obtain admixtures from a single supplier for the Project. If any of these sources need to, by necessity, change, notify the Engineer.
- F. Installer Qualifications:
 - 1. At least one project personnel qualified as an ACI-certified Flatwork Technician and Finisher and supervisor who is an ACI-certified Concrete Flatwork Technician. If an ACI-certified Technician is NOT available, submit flatwork installer qualifications to the Engineer.
- G. Manufacturer Qualifications:
 - 1. A firm with a minimum of 5 years of experience in manufacturing ready-mix concrete products and that complies with ASTM C94 requirements for production facilities and equipment.
 - 2. Manufacturer certified as specified in NRMCA – “Certification of Ready-Mixed Concrete Production Facilities” or equivalent program.
 - 3. Mix Designer: Certified as NRMCA Concrete Technologist Level 2 or Licensed Engineer. If neither, the Mix Designer’s qualifications shall be submitted to the Engineer.
- H. Testing Agency Qualifications:
 - 1. An independent agency, acceptable to the Authority Having Jurisdiction, qualified as specified in ASTM C1077 and ASTM E329 for the testing indicated.
 - 2. Personnel conducting field tests shall be qualified as ACI Concrete Field-Testing Technician, Grade 1, as specified in ACI CP-1 or an equivalent certification program.
 - 3. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician – Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician – Grade II.
- I. Concrete Preinstallation Conference:
 - 1. Schedule and conduct at Project site prior to submitting mix designs.
 - 2. Required meeting attendees:

- a. Contractor's superintendent
 - b. Structural Engineer in responsible charge or designee
 - c. Independent testing agency
 - d. Ready-mix producer
 - e. Concrete Subcontractor
 - f. Admixture representative.
3. Agenda shall include:
- a. Concrete testing and special inspection
 - b. Mix designs and admixtures
 - c. Formwork and formwork removal
 - d. Reinforcement
 - e. Placement methods
 - f. Concrete finishing
 - g. Curing procedures
 - h. Hot and cold weather placement protections
 - i. Joints
 - j. Placement of anchors and miscellaneous embeds
 - k. Tolerances including floor and slab flatness and levelness
 - l. Concrete repair procedures.

1.7 MOCKUPS

- A. Section 01 40 00 – Quality Requirements, specifies requirements for mockups.
- B. Construct mockups for architectural concrete surfaces receiving special treatment or finish as result of formwork.
- C. Size:
 - 1. Sufficient to indicate required special treatment or finish.
- D. If requested by Architect/Engineer, cast concrete against sample panel.
- E. Obtain acceptance of Architect/Engineer for resultant surface finish prior to erecting formwork.
- F. Locate where indicated on Drawings.
- G. Incorporate accepted mockup as part of Work.

1.8 AMBIENT CONDITIONS

- A. Section 01 50 00 – Temporary Facilities and Controls, specifies requirements for ambient condition control facilities for product storage and installation.
- B. Maintain concrete temperature after installation at minimum 50°F for minimum 7 days.

1.9 WARRANTY

- A. See Section 01 78 36 – Warranties and Bonds for requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Concrete:
 - 1. Cement:

- a. Comply with ASTM C150, for cement type, see Supplement at End of Section.
 - b. Type: Portland
 - 2. Blended Cement:
 - a. Comply with ASTM C595
 - b. For sulfate resistance option, see Supplement at End of Section
 - c. Color: Gray
 - 3. Normal Weight Aggregates:
 - a. Comply with ASTM C33
 - b. Coarse Aggregate Maximum Size: 1 in. nominal
 - c. Coarse Aggregate – NOT more than 15% by weight of thin or elongated pieces having a length of five times the average thickness.
 - d. Fine Aggregate – consisting of clean natural sand or of sand prepared from crushed stone or crushed gravel
 - 4. Water:
 - a. Comply with ACI 318
 - b. Potable, without deleterious amounts of chloride ions
- B. Admixtures:
 - 1. Manufacturers:
 - a. BASF Admixtures, Inc, Shakopee, MN
 - b. Euclid Chemical Co., Cleveland, OH
 - c. W.R. Grace & Co., Cambridge, MA
 - d. Substitutions: As specified in Section 01 60 00 – Product Requirements.
 - 2. Air Entrainment: Comply with ASTM C260.
 - 3. Chemical:
 - a. Comply with ASTM C494.
 - b. Type A – Water-Reducing. Type B – Retarding
 - d. Type C – Accelerating
 - e. Type D – Water-Reducing and Retarding
 - f. Type E – Water-Reducing and Accelerating
 - g. Type F – Water-Reducing, High Range
 - h. Type G – Water-Reducing, High Range, and Retarding
 - 4. Fly Ash: Comply with ASTM C618, Class F.
 - 5. Silica Fume: Comply with ASTM C1240.
 - 6. Slag:
 - a. Description: Ground-granulated blast-furnace slag
 - b. Comply with ASTM C989.
 - c. Grade 100 or 120
 - 7. Plasticizing:
 - a. Comply with ASTM C1017.
 - b. Type I or Type II
 - 8. Shrinkage Reducing Admixture:
 - a. BASF; Tetraguard AS20
 - b. Euclid; Eucon SRA Series
 - c. W.R. Grace; Eclipse Series

2.2 CONCRETE MIX

- A. See Supplement at the End of this Section for design requirements for each concrete mix.
- B. Select proportions for concrete as specified in ACI 318.
- C. Use water-reducing admixture in concrete that is part of a Hydraulic Structure or with a water-cementitious ratio below 0.50.

- D. Where fly ash is used, it shall be limited to 25% of total cementitious materials, unless approved in writing by the Engineer.
- E. Limit water-soluble chloride-ion content in hardened concrete to 0.15% by weight of cement for nonhydraulic structures and 0.10% for hydraulic structures.
- F. Fine aggregate shall be in the range of 36–40 % of total aggregate weight.
- G. Concrete Shrinkage Limits:
 - 1. See Subsection 3.5.J.
- H. Target Slump:
 - 1. Without high-range water reducers – 4 in.
 - a. With high-range water reducers – 2 in. prior to the addition of the admixture, 8 in. maximum at point of delivery, unless otherwise permitted.
 - b. Target slump for drilled pier – 6 in.–8 in.
- I. Admixtures:
 - 1. Include admixture types and quantities indicated in concrete mix designs only if approved by Architect/Engineer.
 - 2. Cold Weather:
 - a. Use accelerating admixtures in cold weather.
 - b. Use of admixtures shall NOT relax cold weather placement requirements.
 - 3. Hot Weather: Use set-retarding admixtures.
 - 4. DO NOT use calcium chloride or admixtures containing calcium chloride.
 - a. Add air entrainment admixture to concrete mix for Work exposed to freezing and thawing.
 - b. Average Compressive Strength Reduction: NOT permitted
- J. Ready-Mixed Concrete:
 - 1. Mix and deliver concrete as specified in ASTM C94 and deliver batch ticket information.
 - 2. When air temperature is between 85°F–90°F, reduce mixing and delivery time from 90 minutes to 75 minutes; when air temperature is above 90°F, reduce mixing and delivery time to 60 minutes.
 - a. Contractor may coordinate with the concrete producer and admixture manufacturer to demonstrate the efficacy of using a retarding admixture to extend placement times during hot weather.
- K. Site-Mixed Concrete:
 - 1. Mix concrete as specified in ACI 318.

2.3 ACCESSORIES

- A. Bonding Agent:
 - 1. Manufacturers:
 - a. BASF Building Systems Inc.
 - b. Euclid Chemical Co.
 - c. Prime Resins
 - d. Sika Chemical Corp.
 - 2. Substitutions: As specified in Section 01 60 00 – Product Requirements.
 - 3. Furnish materials as specified in ASTM C881, Type V standards.
 - 4. Description: Two-component moisture insensitive, 100% solids epoxy resin.
- B. Vapor Retarder:
 - 1. Manufacturers:

- a. Fortifiber Corp.
 - b. Revan Industries, Inc.
 - c. Stego Industries, LLC
- 2. Substitutions: As specified in Section 01 60 00 – Product Requirements.
- 3. Furnish materials as specified in E1745, Class B standards.
- 4. Description: Clear polyethylene film.
- 5. Thickness: 10 mils min.
- 6. Type: As recommended for below-grade application.
 - a. Joint Tape: As recommended by manufacturer.
- C. Bond Breaker:
 - 1. Manufacturers:
 - a. Dayton Superior: EDOCO Clean Lift Bond Breaker
 - 2. Substitutions: As specified in Section 01 60 00 – Product Requirements.
 - 3. Description: Nonstaining, providing positive bond prevention.
- D. Concrete Reinforcing Fibers:
 - 1. Manufacturers:
 - a. Euclid Chemical Co.
 - b. Propex Concrete Systems Corp.
 - c. Substitutions: As specified in Section 01 60 00 – Product Requirements.
 - 2. Description: High-strength industrial-grade fibers specifically engineered for secondary reinforcement of concrete.
 - 3. Comply with ASTM C1116.
 - 4. Tensile Strength: 130 ksi.
 - 5. Toughness: 15 ksi.
 - 6. Fiber Length: 3/4 in.
 - 7. Fiber Count: 34 million/lb.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Section 01 77 00 – Closeout Procedures, specifies requirements for installation examination.
- B. Verify requirements for concrete cover over reinforcement. In environmental structures, verify sufficient concrete cover to clear waterstop.
- C. Verify that anchors, seats, plates, reinforcement, and other items to be cast into concrete are accurately placed, positioned securely, and shall NOT interfere with placing concrete.

3.2 PREPARATION

- A. Section 01 77 00 – Closeout Procedures specifies requirements for installation preparation.
- B. Previously Placed Concrete:
 - 1. Prepare previously placed concrete by cleaning with steel brush and applying bonding agent.
 - a. Remove laitance, coatings, and unsound materials.
 - b. Doweled Joints: Install dowel bars and support assemblies at joints as indicated on drawings.
 - c. Remove debris and ice from formwork, reinforcement, and concrete substrates.
- C. Remove water from areas receiving concrete before concrete is placed.

3.3 INSTALLATION

A. Placing Concrete:

1. Place concrete as specified in ACI 301.
2. Notify testing laboratory Engineer minimum 24 hrs. prior to commencement of operations.
 - a. The contractor shall be responsible for all costs incurred by the testing laboratory due to cancellations, rescheduling, or failure to provide the required minimum 24 hour notice.
3. Make sure reinforcement, inserts, embedded parts, formed expansion and contraction joints, and waterstop are NOT disturbed during concrete placement.
4. Install vapor retarder under interior slabs on grade as specified in ASTM E1643.
5. Lap joints minimum 6 in. and seal watertight by taping edges and ends as specified in manufacturer's instructions.
 - a. Repairs:
 - 1) Repair vapor retarder damaged during placement of concrete reinforcement.
 - 2) Using vapor retarder material, lap over damaged areas a minimum of 6 in. and seal watertight.
6. Joint Filler:
 - a. Separate slabs on grade from vertical surfaces with 1/2 in. thick joint filler.
 - b. Place joint filler in floor slab pattern placement sequence; set top to required elevations; secure to resist movement by wet concrete.
 - c. Extend joint filler from bottom of slab to within 1/2 in. of finished slab surface.
7. Deposit concrete at final position, preventing segregation of mix. Limit vertical free fall to 5 ft.
8. Place concrete in continuous operation for each panel or section as determined by predetermined expansion, control and construction joints.
 - a. Place in horizontal layers NOT to exceed 2.0 ft in depth, except for slabs which shall be placed full depth.
 - b. DO NOT exceed formwork design pressures.
9. DO NOT use aluminum conveying devices.
10. Retempering of concrete is NOT permitted where cement has partially hydrated.
11. Pumping of Concrete:
 - a. Provide standby pump, conveyor system or other system onsite during pumping to ensure completion of concrete placement without cold joints in case of equipment failure.
12. Consolidate concrete using mechanical vibrating equipment per ACI 301
 - a. DO NOT use vibrators to transport concrete within formwork. Insert and withdraw vibrators vertically at uniform spacing to quickly penetrate placed layer and at least 6 in. into preceding layer. DO NOT insert vibrators into lower layers that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement, waterstop and other items without causing segregation.
 - b. Slabs with horizontal waterstop: limit concrete placement to elevation of waterstop in first pass, ensure space beneath waterstop completely fills with concrete, vibrate under waterstop, then place remaining concrete to full height of slab.
 - c. Maintain at least one standby vibrator prior to placing concrete.
13. Maintain records of concrete placement, including date, location, quantity, air temperature, and test samples taken.
14. Maximum Size of Concrete Placements:
 - a. Locate expansion, control and contraction joints where shown on drawings.
 - b. Locate construction joints where shown on drawings or where approved in joint location submittal per Section 03 15 00 – Concrete Joints and Accessories.
 - c. Provide vertical construction joints in walls and slabs at maximum spacing of 40 feet, unless shown or approved otherwise.
 - d. Place joints to avoid penetrations.
15. DO NOT interrupt successive placement and DO NOT permit cold joints to occur.

16. Minimum Time Between Adjacent Placements:
 - a. Construction or Control Joints: 7 days unless otherwise specified.
 - b. Construction joint between top of footing or slab and column or wall: NOT less than 24 hrs.
 - c. Expansion or Contraction Joints: NOT less than 24 hrs.
17. Hot Weather Placement:
 - a. Comply with ACI 305.1.
 - b. Maintain concrete temperature below 95°F at time of placement. If chilled water or ice are used to maintain concrete temperature, that water equivalent shall be included in the total water used to calculate the water-cement ratio.
 - c. Fog-spray forms, reinforcement, and subgrade just before placing concrete, without creating standing water or dry areas.
18. Cold Weather Placement:
 - a. Comply with ACI 306.1.
 - b. DO NOT place concrete on frozen subgrade or subgrade containing frozen materials. Top 12 in. of subgrade shall be thawed prior to concrete placement.
 - c. DO NOT place concrete in contact with reinforcement or embedment with surfaces less than 35°F.
 - d. Provide supplemental heat when other means of thermal protection are insufficient. Vent carbon-based fuel heaters away from concrete surface to avoid concrete carbonation.
 - e. Provide temperature sensors placed on the concrete surfaces throughout the work. Record surface temperature at least once every 12 hrs.
 - f. Protect concrete from freezing until the end of the curing period.
19. Saw-Cut Joints (where permitted):
 - a. Saw-cut joints within 12 hrs. after placing.
 - b. Use 3/16 in. thick blade.
 - c. Cut into 1/4 depth of slab thickness.
20. Screeding:
 - a. Screed floors and slabs to elevations and slopes shown on drawings.
 - b. Surface Flatness: FF 20 (conventional slab).

- B. Concrete Finishing:
 - a. Per Section 03 35 00 – Concrete Finishing.

- C. Curing and Protection:
 1. Per Section 03 39 00 – Concrete Curing.

3.4 BACKFILL AGAINST STRUCTURES

- A. DO NOT backfill against walls until the concrete has reached the design 28-day strength as demonstrated by concrete cylinder breaks.
- B. For structures with top slabs or diaphragms, the top slab shall reach design strength, or the diaphragm shall be secured per the contract documents prior to backfill.
- C. Unless otherwise permitted, backfill evenly around structure to prevent differential horizontal pressures.

3.5 FIELD QUALITY REQUIREMENTS

- A. Section 01 40 00 – Quality Requirements, specifies requirements for inspecting and testing.
- B. Inspection and Testing:
 1. Performed by testing laboratory as specified in ACI 318.

- C. Provide unrestricted access to Work and cooperate with appointed testing and inspection firm.
- D. Submit proposed mix design for each class of concrete to inspection and testing firm for review prior to commencement of Work.
- E. Concrete Inspections:
 - 1. Continuous Placement Inspection: Inspect for proper installation procedures.
 - 2. Periodic Curing Inspection: Inspect for specified curing temperature and procedures.
 - a. Samples for testing air content in pumped concrete shall be taken at point of placement and point of delivery to establish a correlation to estimate air content at point of placement. All other samples shall be taken at point of delivery.
 - b. Provide adequate facilities for safe storage and proper curing of concrete test specimens onsite for the first 24 hrs.
- F. Strength Test Samples:
 - 1. Sampling Procedures: Comply with ASTM C172.
 - 2. Cylinder Molding and Curing Procedures: Comply with ASTM C31.
 - b. Cylinder Specimens: Standard cured.
 - 3. Sample concrete and make one set of five 4 in. diameter test cylinders for every 50 yd³ or less of each class of concrete placed each day, and for every 5,000 ft² of surface area for slabs and walls.
 - a. Additional cylinders may be requested to demonstrate strength requirements pertaining to early form removal and backfill
 - 4. If volume of concrete for a class of concrete would provide less than five sets of cylinders, take samples from five random batches, or from every batch if less than five batches are used.
 - a. Make one additional cylinder during cold weather concreting and field cure.
- G. Field Testing:
 - 1. Slump Test Method: Comply with ASTM C143.
 - 2. Air Content Test Method: Comply with ASTM C173 or C231.
 - 3. Temperature Test Method: Comply with ASTM C1064.
 - 4. Frequency of Testing:
 - a. Measure slump and temperature for each sample.
 - b. Measure air content in air-entrained concrete for each sample.
- H. Cylinder Compressive Strength Testing:
 - 1. Test Method: See ASTM C39.
 - 2. Test Acceptance: See ACI 318.
 - 3. Test one cylinder at 7 days.
 - 4. Test three cylinders at 28 days.
 - 5. Retain one cylinder for 56 days for testing when requested by Engineer.
 - a. Dispose of remaining cylinders if testing is NOT required.
- I. Core Compressive Strength Testing:
 - 1. Sampling and Testing Procedures: Comply with ASTM C42.
 - 2. Test Acceptance: As specified in ACI 318.
 - a. Drill three cores for each failed strength test from failed concrete.
- J. Shrinkage Testing:
 - 1. As specified in ASTM C157 with modifications:
 - a. Prisms shall be moist cured for 7 days prior to the 28-day drying period.
 - b. Measurement at the end of the 7-day moist cure shall be considered the initial length.
 - c. The reported results shall be the average of three prisms.

2. If the drying shrinkage measurement of a specimen varies from the average by more than 0.004%, disregard the results from that specimen.
3. Test shrinkage characteristics every 5,000 yd³ and every 3 months during construction of hydraulic structures.
4. Results at the end of the 28-day drying period shall NOT exceed 0.04% if 3 in. prisms are used or 0.038% if 4 in. prisms are used.
 - a. If the 7-day or 14-day field shrinkage tests exceed the limits established by testing of the mix design, furnish an additional 14 days of water cure beyond the original curing period for hydraulic structures. Modify the mix design to reduce shrinkage.

K. Liquid Tightness Tests:

1. As specified in ACI 350.1.
2. Submit detailed plan for liquid tightness tests for all hydraulic structures for Engineer review. Structures with multiple chambers shall be tested separately, with individual procedures provided for each chamber.
3. Purpose:
 - a. To determine the integrity and water tightness of finished concrete surfaces of liquid containment structures.
 - b. Contractor shall perform and pay for all costs associated with liquid tightness tests.
 - c. Report all test results to the Engineer.
4. For All Water-Holding Structures:
 - a. Perform tightness tests after the concrete structure is complete and capable of resisting the hydrostatic pressure of the water test. The concrete shall have achieved its full design strength.
 - b. Perform tightness tests before backfill, brick facing, or other work that shall cover the concrete wall surfaces has begun.
 - c. Install all temporary bulkheads, cofferdams and pipe blind flanges and close all valves. Inspect each to make sure that it provides a complete seal.
 - d. Fill with water to test level shown, or maximum liquid level if no test level is given. Maintain this level for 72 hrs. prior to the start of the test to allow for water absorption, structural deflection, and temperature to stabilize.
 - e. Measure evaporation and precipitation by floating a partially filled, transparent, calibrated, open top container.
 - f. Measure the water surface at two points 180° apart, when possible where attachments such as ladders exist, at 24-hour intervals. Use a sharp pointed hook gage and fixed metal measure capable of reading to 1/100 in. Continue the test for a period sufficient to produce at least 1/2 in. drop in the water surface based on the assumption that leakage would occur at the maximum allowable rate specified or for 72 hrs.
 - g. The total time for the qualitative test in part d (72 hours) and the quantitative test in part f (72 hours) above shall be 144 hours.
5. Acceptance Criteria:
 - a. Volume loss shall NOT exceed 0.075% of contained liquid volume in a 24-hour period, correcting for evaporation, participation, and settlement.
 - b. No damp spots or seepage visible on exterior surfaces. A damp spot is defined as sufficient moisture to be transferred to a dry hand upon touching.
6. Repairs when test fails:
 - a. Dewater the structure; fill leaking cracks with crack repair epoxy as specified in Section 03 64 00 – Concrete Repair Crack Injection. Patch areas of damp spots previously recorded and repeat tightness test in its entirety until the structure successfully passes the test.
 - b. Water for failed tests shall be subject to requirements in Section 01 14 00 Work Restrictions.

L. Water-Soluble Chloride-Ion Concentration Test Method:

1. Comply with ASTM C1218.

2. Test at 28 days.
 - a. Maximum Chloride-Ion Concentration: As permitted by applicable code.

M. Patching:

1. Allow Engineer to inspect concrete surfaces immediately upon removal of forms.
2. Honeycombing or Embedded Debris in Concrete:
 - a. NOT acceptable.
 - b. Notify Engineer upon discovery.
 - c. Patch imperfections per Section 03 01 00 – Maintenance of Concrete.

N. Defective Concrete:

1. Description: See Definitions.
2. Repair or replacement of defective concrete shall be determined by Engineer.
3. DO NOT patch, fill, touch up, repair, or replace exposed concrete except upon express direction of Engineer for each individual area.

3.6 SUPPLEMENTS

- A. Requirements of concrete mix designs after “End of Section” are a part of this section.

END OF SECTION

4500 PSI CONCRETE MIX

- A. Use for Hydraulic Structures exposed to freezing and thawing cycles, moderate sulfate exposure and requiring low permeability. Typically used in water treatment.
- B. Mix Design Properties:
 - 1. Maximum water / cementitious ratio of 0.42.
 - 2. Minimum compressive strength at 28 days of 4,500 psi.
 - 3. Conform to shrinkage limits.
 - 4. Air content of 4.5–7.0%, assuming 3/4 in. or 1 in. maximum aggregate size.
 - 5. Provide Cementitious Materials Per as Specified in Either:
 - a. ASTM C150 Type II – type F fly ash may be included as an option.
 - b. ASTM C595 Type IL – complies with moderate sulfate resistance option.
 - 6. Minimum cementitious materials content in the mix shall be:
 - a. 560 lbs/yd³ for 3/4 in. maximum aggregate size
 - b. 535 lbs/yd³ for 1 in. maximum aggregate size
 - c. Limit maximum cementitious content to 100 lbs/yd³ greater than specified minimums.
 - 7. Limit water-soluble, chloride-ion content in hardened concrete to 0.10%.
 - a. Test if total chloride-ion content of individual ingredients, calculated on the basis of concrete proportions, exceeds 0.10%.
 - b. Refer to this section for additional requirements.

4500 PSI CONCRETE MIX

- A. Use for nonhydraulic structural concrete exposed to freezing and thawing cycles, moderate sulfate exposure and requiring low permeability. Typically used for buildings.
- B. Mix Design Properties:
 - 1. Maximum water / cementitious ratio of 0.45.
 - 2. Minimum compressive strength at 28 days of 4,500 psi.
 - 3. Air content of 5.5%–7.0% for 3/4 in. and 1 in. maximum aggregate size.
 - 4. Provide Cementitious Materials as Specified in Either:
 - a. ASTM C150 Type II – type F or type C fly ash may be included as an option.
 - b. ASTM C595 Type IL – complies with moderate sulfate resistance option.
 - 5. Limit water-soluble, chloride-ion content in hardened concrete to 0.10%.
 - a. Test if total chloride-ion content of individual ingredients, calculated on the basis of concrete proportions, exceeds 0.10%.
 - b. Refer to this section for additional requirements.
 - 6. At exterior topping slabs placed on hardened concrete only, include crystalline waterproof admixture

4000 PSI CONCRETE MIX

- A. Use for secondary elements NOT exposed to freezing and thawing cycles, with moderate sulfate exposure. Typically used below grade for electrical duct banks, pipe encasements NOT cast monolithically with structural slabs, thrust blocks, and drilled piers.
- B. Mix Design Properties:
 - 1. Maximum water / cementitious ratio of 0.50.
 - 2. Minimum compressive strength at 28 days of 4,000 psi.
 - 3. Air content of 1.5%–4.5% for 3/4 in. and 1 in. maximum aggregate size.
 - 4. Provide Cementitious Materials as Specified in Either:
 - a. ASTM C150 Type II – type F or type C fly ash may be included as an option.
 - b. ASTM C595 Type IL – complies with moderate sulfate resistance option.
 - 5. Limit water-soluble, chloride-ion content in hardened concrete to 0.30%.
 - a. Test if total chloride-ion content of individual ingredients, calculated on the basis of concrete proportions, exceeds 0.30%.
 - b. Refer to this section for additional requirements.

"General Decision Number: TX20260275 05/18/2026

State: Texas

Construction Types: Building

Counties: Texas Counties of
Williamson

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

ASBE0087-014 06/03/2024

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (DUCT, PIPE AND MECHANICAL SYSTEM INSULATION).....	\$ 29.50	8.79

BOIL0074-003 01/01/2025

	Rates	Fringes
BOILERMAKER.....	\$ 33.17	24.92

CARP1266-002 06/01/2025

	Rates	Fringes
CARPENTER (EXCLUDES ACOUSTICAL CEILING INSTALLATION, DRYWALL HANGING, FORM WORK, AND METAL STUD INSTALLATION).....	\$ 31.80	9.56

ELEC0520-003 06/02/2025

	Rates	Fringes
ELECTRICIAN (EXCLUDES LOW VOLTAGE WIRING).....	\$ 36.50	10.69

ELEV0133-002 01/01/2025

Rates	Fringes
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ELEVATOR MECHANIC FOOTNOTE: A. 6% UNDER 5 YEARS
BASED ON REGULAR HOURLY RATE FOR ALL HOURS WORKED.
8% OVER 5 YEARS BASED ON REGULAR HOURLY RATE FOR
ALL HOURS WORKED. B. HOLIDAYS: NEW YEAR'S

DAY, MEMORIAL DAY, INDEPENDENCE DAY, LABOR DAY,
THANKSGIVING DAY, THE FRIDAY AFTER THANKSGIVING
DAY, CHRISTMAS DAY, AND VETERANS DAY.....\$ 51.59

38.44

ENGI0450-002 04/01/2024

Rates

Fringes

POWER EQUIPMENT OPERATOR (CRANES).....\$ 39.47

10.39

IRON0084-011 06/01/2024

Rates

Fringes

IRONWORKER: ORNAMENTAL.....\$ 28.26

8.13

IRON0482-012 06/01/2025

Rates

Fringes

IRONWORKER, STRUCTURAL.....\$ 28.30

8.23

PLUM0286-010 09/01/2025

Rates

Fringes

PIPEFITTER: INCLUDING HVAC PIPE INSTALLATION.....\$ 37.15

16.92

SFTX0669-002 04/01/2025

Rates

Fringes

SPRINKLER FITTER (FIRE SPRINKLERS).....\$ 38.57

24.47

SHEE0067-007 07/01/2025

Rates

Fringes

SHEET METAL WORKER (HVAC DUCT INSTALLATION ONLY)....\$ 34.01

16.10

SHEET METAL WORKER (EXCLUDES HVAC DUCT
INSTALLATION).....\$ 34.01

16.10

SUTX2014-053 07/21/2014

Rates

Fringes

WATERPROOFER.....\$ 16.30

0.06

TRUCK DRIVER: WATER TRUCK.....\$ 12.00

4.11

TRUCK DRIVER: SEMI-TRAILER TRUCK.....\$ 12.50

0.00

TRUCK DRIVER: FLATBED TRUCK.....\$ 19.65

8.57

TRUCK DRIVER: DUMP TRUCK.....\$ 12.39

1.18

TILE SETTER.....\$ 16.35

0.00

TILE FINISHER.....	\$ 11.32	0.00
ROOFER.....	\$ 12.00	0.00
PLUMBER, EXCLUDES HVAC PIPE INSTALLATION.....	\$ 24.24	4.16
PAINTER (BRUSH AND ROLLER), EXCLUDES DRYWALL FINISHING/TAPING.....	\$ 18.76	6.35
OPERATOR: ROLLER.....	\$ 11.25	0.00
OPERATOR: PAVER (ASPHALT, AGGREGATE, AND CONCRETE).....	\$ 16.03	0.00
OPERATOR: MECHANIC.....	\$ 18.75	5.12
OPERATOR: LOADER.....	\$ 14.00	0.00
OPERATOR: GRADER/BLADE.....	\$ 19.30	0.00
OPERATOR: FORKLIFT.....	\$ 16.40	0.00
OPERATOR: DRILL.....	\$ 14.50	0.00
OPERATOR: BULLDOZER.....	\$ 14.00	0.00
OPERATOR: BOBCAT/SKID STEER/SKID LOADER.....	\$ 13.00	0.00
OPERATOR: BACKHOE/EXCAVATOR/TRACKHOE.....	\$ 19.43	3.49
LABORER: ROOF TEAROFF.....	\$ 11.28	0.00
LABORER: PIPELAYER.....	\$ 12.45	0.00
LABORER: MASON TENDER - CEMENT/CONCRETE.....	\$ 11.85	0.00
LABORER: MASON TENDER - BRICK.....	\$ 12.17	0.00
LABORER: COMMON OR GENERAL.....	\$ 13.22	0.04
IRONWORKER, REINFORCING.....	\$ 12.27	0.00
HVAC MECHANIC (HVAC UNIT INSTALLATION ONLY).....	\$ 24.46	6.98
GLAZIER.....	\$ 12.83	0.00
FLOOR LAYER: CARPET.....	\$ 21.88	0.00
ELECTRICAL INSTALLER (SOUND AND COMMUNICATION SYSTEMS) (EXCLUDES WIRING).....	\$ 12.50	0.65
DRYWALL HANGER AND METAL STUD INSTALLER.....	\$ 17.41	3.49
DRYWALL FINISHER/TAPER.....	\$ 16.96	4.34
CEMENT MASON/CONCRETE FINISHER.....	\$ 16.50	0.05
CARPENTER (FORM WORK ONLY).....	\$ 15.93	0.05
CARPENTER (ACOUSTICAL CEILING INSTALLATION ONLY)....	\$ 14.00	0.00
BRICKLAYER.....	\$ 20.16	0.00

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave
for Federal Contractors applies to all contracts subject to the
Davis-Bacon Act for which the contract is awarded (and any
solicitation was issued) on or after January 1, 2017. If this
contract is covered by the EO, the contractor must provide
employees with 1 hour of paid sick leave for every 30 hours
they work, up to 56 hours of paid sick leave each year.
Employees must be permitted to use paid sick leave for their
own illness, injury or other health-related needs, including
preventive care; to assist a family member (or person who is

like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

Union Rate Identifiers

A four-letter identifier beginning with characters other than **USU**, **UAVG**, **SA**, or **SC** denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2024 in the

example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE:

UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The SU identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

SU wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The SA identifier indicates that the classifications and

prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ◆SA◆ identifier took effect under state law in the state from which the rates were adopted.

WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

Branch of Wage Surveys
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

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Wage and Hour Division
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200 Constitution Avenue, N.W.
Washington, DC 20210

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.

Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

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State: Texas

Construction Types: Heavy

Counties: Texas Counties of
Bell, Bosque, Coryell, Falls, Freestone,
Hamilton, Hill, Lampasas, Leon,
Limestone, McLennan, Milam, Mills,
Navarro, Robertson and Williamson

Water & Sewage Treatment Plants and Lift Pump Stations

Modification Number	Publication Date
0	01/02/2026
1	05/18/2026

SUTX1990-003 02/09/1990

	Rates	Fringes
UTILITY LABORER.....	\$ 7.25	0.00
TRUCK DRIVERS: TRANSIT MIX.....	\$ 7.25	0.00
TRUCK DRIVERS: TANDEM AXLES.....	\$ 7.25	0.00
STEEL WORKER.....	\$ 7.25	0.00
STEEL SETTER.....	\$ 9.50	0.00
POWER EQUIPMENT OPERATORS: SCRAPERS.....	\$ 7.25	0.00
POWER EQUIPMENT OPERATORS: FRONT END LOADERS.....	\$ 10.00	0.00
POWER EQUIPMENT OPERATORS: CRANES, CLAMSHELLS, BACKHOES, DERRICKS, DRAGLINE, SHOVELS.....	\$ 7.25	0.00
POWER EQUIPMENT OPERATORS: BULLDOZERS.....	\$ 7.25	0.00
PIPELAYER.....	\$ 7.50	0.00
LABORER.....	\$ 7.25	0.00
FORM SETTER.....	\$ 7.25	0.00
FORM BUILDER.....	\$ 7.25	0.00
ELECTRICIAN.....	\$ 13.45	
CEMENT MASON/CONCRETE FINISHER.....	\$ 8.00	0.00
CARPENTER.....	\$ 9.00	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Note: Executive Order 13658 generally applies to contracts subject to the Davis-Bacon Act that were awarded on or between January 1, 2015 and January 29, 2022, and that have not been renewed or extended on or after January 30, 2022. Executive Order 13658 does not apply to contracts subject only to the Davis-Bacon Related Acts regardless of when they were awarded. If a contract is subject to Executive Order 13658, the contractor must pay all covered workers at least \$13.65 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract from May 11, 2026, through December 31, 2026. The applicable Executive Order minimum wage rate will be adjusted annually. Additional information on contractor requirements and worker protections under Executive Order 13658 is available at www.dol.gov/whd/govcontracts.

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The body of each wage determination lists the classifications and wage rates that have been found to be prevailing for the type(s) of construction and geographic area covered by the wage determination. The classifications are listed in alphabetical order under rate identifiers indicating whether the particular rate is a union rate (current union negotiated rate), a survey rate, a weighted union average rate, a state adopted rate, or a supplemental classification rate.

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A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

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year of the survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

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WAGE DETERMINATION APPEALS PROCESS

1) Has there been an initial decision in the matter? This can be:

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The request should be accompanied by a full statement of the interested party's position and any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210.

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END OF GENERAL DECISION

"

City of Liberty Hill

Monthly American Iron and Steel (AIS) Certificate

Project Name:

Project CIP Identifier:

I, _____, of
(Name and Title)

(Name of Entity)

hereby certify that all iron and steel products and/or materials incorporated into the construction, alteration, maintenance, or repair of the subject project are in full compliance with the American Iron and Steel requirements of 33 U.S.C. §3914 for the Water Infrastructure and Innovation Act, as applicable for the Water Infrastructure and Innovation Act, or comply with waivers granted by the U.S. Environmental Protection Agency.

I understand that a false statement herein may subject me to penalties under federal and state laws relating to filing false statements and other relevant statutes.

Signature

Date

City of Liberty Hill

Final American Iron and Steel (AIS) Certificate

Project Name:

Project CIP Identifier:

I, _____, of
(Name and Title)

(Name of Entity)

hereby certify that all iron and steel products and/or materials incorporated into the construction, alteration, maintenance, or repair of the subject project are in full compliance with the American Iron and Steel requirements of 33 U.S.C. §3914 for the Water Infrastructure and Innovation Act, as applicable for the Water Infrastructure and Innovation Act, or comply with waivers granted by the U.S. Environmental Protection Agency.

I understand that a false statement herein may subject me to penalties under federal and state laws relating to filing false statements and other relevant statutes.

Signature

Date

EXHIBIT 1

WIFIA Specification Package and Bid Contract Language

Last Updated: May 2025

AMERICAN IRON AND STEEL (AIS) REQUIREMENT

The Contractor acknowledges to and for the benefit of **[Insert WIFIA Borrower Name]** (“Purchaser”) and the United States Environmental Protection Agency (“EPA”) that it understands the goods and services under this Agreement are being funded with monies made available by the Water Infrastructure Finance and Innovation Act program of the EPA that has statutory requirements commonly known as “American Iron and Steel” that requires all of the iron and steel products used in the project to be produced in the United States (“American Iron and Steel Requirement”) including iron and steel products provided by the Contractor pursuant to this Agreement. The Contractor hereby represents, warrants and covenants to and for the benefit of the Purchaser and the EPA that (a) the Contractor has reviewed and understands the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Purchaser or the EPA. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or the EPA to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney’s fees) incurred by the Purchaser or the EPA resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the EPA or any damages owed to the EPA by the Purchaser). While the Contractor has no direct contractual privity with the EPA, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the EPA is a third- party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the EPA.

BUILD AMERICA, BUY AMERICA ACT

Other language may be included on contracts for clarity on this federal requirement if an applicable waiver applies. For example, if the WIFIA program has determined program waiver coverage, indicate in contract documents, “This Project is covered under the WIFIA Program Waiver (June 22, 2022), which waives BABA requirements.”

Build America, Buy America (Effective May 14, 2022)

The Contractor acknowledges to and for the benefit of _ (“Purchaser”) and the United States Environmental Protection Agency (“EPA”) that it understands the goods and services under this Agreement are being funded with federal monies made available by the Water Infrastructure Finance and Innovation Act program of EPA that have statutory requirements commonly known as “Build America, Buy America,” that requires all of the iron and steel, manufactured products, and construction materials used in the project to be produced in the United States (“Build America, Buy America Requirements”) including iron and steel, manufactured products, and construction materials provided by the Contractor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and Funding Authority (a) the Contractor has reviewed and understands the Build America, Buy America Requirements, (b) all of the iron and steel, manufactured products, and construction materials used in the project will be and/or have been produced in the United States in a manner that complies with the Build America, Buy America Requirements, unless a waiver of the requirements is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the Build America, Buy America Requirements, as may be requested by the Purchaser or the Funding Authority. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or Funding Authority to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney’s fees) incurred by the Purchaser or Funding Authority resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the Funding Authority or any damages owed to the Funding Authority by the Owner). If the Contractor has no direct contractual privity with the Funding Authority, as a lender or awardee to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the Funding Authority is a third-party beneficiary and neither this paragraph (nor any other provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the Funding Authority.

LABOR LAWS AND STANDARDS

The language below reflects the August 2023 updates to the Davis Bacon regulations.

Contract provisions and related matters.

- a) *Required contract clauses.* The Agency head will cause or require the contracting officer to require the contracting officer to insert in full, or (for contracts covered by the Federal Acquisition Regulation (48 CFR chapter 1)) by reference, in any contract in excess of \$2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a public building or public work, or building or work financed in whole or in part from Federal funds or in accordance with guarantees of a Federal agency or financed from funds obtained by pledge of any contract of a Federal agency to make a loan, grant or annual contribution (except where a different meaning is expressly indicated), and which is subject to the labor standards provisions of any of the laws referenced by § 5.1, the following clauses (or any modifications thereof to meet the particular needs of the agency, *Provided*, That such modifications are first approved by the Department of Labor):

(1) *Minimum wages —*

- (i) *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of this section, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act (40 U.S.C. 3141(2)(B)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(v) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph (a)(4) of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph (a)(1)(iii) of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) *Frequently recurring classifications.*

- (A) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in 29 CFR part 1, a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph (a)(1)(iii) of this section, provided that:
- (1) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;
 - (2) The classification is used in the area by the construction industry; and
 - (3) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.
- (B) The Administrator will establish wage rates for such classifications in accordance with paragraph (a)(1)(iii)(A)(3) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

(iii) *Conformance.*

- (A) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:
- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
 - (2) The classification is used in the area by the construction industry; and
 - (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.
- (C) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period

that additional time is necessary.

- (E) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division under paragraphs (a)(1)(iii)(C) and (D) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph (a)(1)(iii)(C) or (D) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iv) *Fringe benefits not expressed as an hourly rate.* Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (v) *Unfunded plans.* If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis- Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.
- (vi) *Interest.* In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.
- (2) *Withholding —*
- (i) *Withholding requirements.* The [write in name of Federal agency or the recipient of Federal assistance] may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in paragraph (a) of this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work (or otherwise working in construction or development of the project under a development statute) all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph (a)(3)(iv) of this section, the [Agency] may on its own initiative and after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, take such action as may be necessary to cause the suspension of any further payment,

advance, or guarantee of funds until such violations have ceased.

- (ii) *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph (a)(2)(i) or (b)(3)(i) of this section, or both, over claims to those funds by:

- (A) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (B) A contracting agency for its procurement costs;
- (C) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (D) A contractor's assignee(s);
- (E) A contractor's successor(s); or
- (F) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901-3907.

(3) *Records and certified payrolls —*

(i) *Basic record requirements —*

- (A) *Length of record retention.* All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.
- (B) *Information required.* Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.
- (C) *Additional records relating to fringe benefits.* Whenever the Secretary of Labor has found under paragraph (a)(1)(v) of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in 40 U.S.C. 3141(2)(B) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.
- (D) *Additional records relating to apprenticeship.* Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

(ii) *Certified payroll requirements —*

- (A) *Frequency and method of submission.* The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the [write in name of appropriate Federal agency] if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the certified payrolls to the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records, for transmission to the [write in name of

agency]. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

- (B) *Information required.* The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph (a)(3)(i)(B) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (*e.g.*, the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHD/legacy/files/wh347/.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the sponsoring government agency (or the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records).
- (C) *Statement of Compliance.* Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:
- (1) That the certified payroll for the payroll period contains the information required to be provided under paragraph (a)(3)(ii) of this section, the appropriate information and basic records are being maintained under paragraph (a)(3)(i) of this section, and such information and records are correct and complete;
 - (2) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR part 3; and
 - (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.
- (D) *Use of Optional Form WH-347.* The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(C) of this section.
- (E) *Signature.* The signature by the contractor, subcontractor, or the contractor's or

subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

- (F) *Falsification*. The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 3729.
- (G) *Length of certified payroll retention*. The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.
- (iii) *Contracts, subcontracts, and related documents*. The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.
- (iv) *Required disclosures and access —*
 - (A) *Required record disclosures and access to workers*. The contractor or subcontractor must make the records required under paragraphs (a)(3)(i) through (iii) of this section, and any other documents that the [write the name of the agency] or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the [write the name of the agency] or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.
 - (B) *Sanctions for non-compliance with records and worker access requirements*. If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under 29 CFR part 6 any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.
 - (C) *Required information disclosures*. Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address of each covered worker, and must provide them upon request to the [write in name of appropriate Federal agency] if the agency is a party to the contract, or to the Wage and Hour Division of the Department of Labor. If the Federal agency is not such a party to the contract, the contractor, subcontractor, or

both, must, upon request, provide the full Social Security number and last known address, telephone number, and email address of each covered worker to the applicant, sponsor, owner, or other entity, as the case may be, that maintains such records, for transmission to the [write in name of agency], the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

(4) *Apprentices and equal employment opportunity* —

(i) *Apprentices* —

- (A) *Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
- (B) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.
- (C) *Apprenticeship ratio.* The allowable ratio of apprentices to journeyworkers on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph (a)(4)(i)(D) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph (a)(4)(i)(A) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.
- (D) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

- (ii) *Equal employment opportunity.* The use of apprentices and journeyworkers under this part must be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.
- (5) *Compliance with Copeland Act requirements.* The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.
- (6) *Subcontracts.* The contractor or subcontractor must insert in any subcontracts the clauses contained in paragraphs (a)(1) through (11) of this section, along with the applicable wage determination(s) and such other clauses or contract modifications as the [write in the name of the Federal agency] may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate.
- (7) *Contract termination: debarment.* A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- (8) *Compliance with Davis-Bacon and Related Act requirements.* All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (9) *Disputes concerning labor standards.* Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.
- (10) *Certification of eligibility.*
 - (i) By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of 40 U.S.C. 3144(b) or § 5.12(a).
 - (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of 40 U.S.C. 3144(b) or § 5.12(a).
 - (iii) The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, 18 U.S.C. 1001.
- (11) *Anti-retaliation.* It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:
 - (i) Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or 29 CFR part 1 or 3;
 - (ii) Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or 29 CFR part 1 or 3;
 - (iii) Cooperating in any investigation or other compliance action, or testifying in any

- proceeding under the DBA, Related Acts, this part, or 29 CFR part 1 or 3; or
- (iv) Informing any other person about their rights under the DBA, Related Acts, this part, or 29 CFR part 1 or 3.
- b) *Contract Work Hours and Safety Standards Act (CWHSSA)*. The Agency Head must cause or require the contracting officer to insert the following clauses set forth in paragraphs (b)(1) through (5) of this section in full, or (for contracts covered by the Federal Acquisition Regulation) by reference, in any contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses must be inserted in addition to the clauses required by paragraph (a) of this section or 29 CFR 4.6. As used in this paragraph (b), the terms “laborers and mechanics” include watchpersons and guards.
- (1) *Overtime requirements*. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) *Violation; liability for unpaid wages; liquidated damages*. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$32 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1).
- (3) *Withholding for unpaid wages and liquidated damages* —
- (i) *Withholding process*. The [write in the name of the Federal agency or the recipient of Federal assistance] may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this paragraph (b) on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

- (ii) *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with paragraph (a)(2)(i) or (b)(3)(i) of this section, or both, over claims to those funds by:
 - (A) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
 - (B) A contracting agency for its procurement costs;
 - (C) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
 - (D) A contractor's assignee(s);
 - (E) A contractor's successor(s); or
 - (F) A claim asserted under the Prompt Payment Act, 31 U.S.C. 3901-3907.
- (4) *Subcontracts.* The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs (b)(1) through (5) of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (5). In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.
- (5) *Anti-retaliation.*
 - (i) It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for: Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;
 - (ii) Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;
 - (iii) Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or
 - (iv) Informing any other person about their rights under CWHSSA or this part.
- c) *CWHSSA required records clause.* In addition to the clauses contained in paragraph (b) of this section, in any contract subject only to the Contract Work Hours and Safety Standards Act and not to any of the other laws referenced by § 5.1, the Agency Head must cause or require the contracting officer to insert a clause requiring that the contractor or subcontractor must maintain regular payrolls and other basic records during the course of the work and must preserve them for a period of 3 years after all the work on the prime contract is completed for all laborers and mechanics, including guards and watchpersons, working on the contract. Such records must contain the name; last known address, telephone number, and email address; and social security number of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid; daily and weekly number of hours actually worked; deductions made; and actual wages paid. Further, the Agency Head must cause or require the contracting officer to insert in any such contract a clause providing that the records to be maintained under this paragraph must be made available by the contractor or

subcontractor for inspection, copying, or transcription by authorized representatives of the (write the name of agency) and the Department of Labor, and the contractor or subcontractor will permit such representatives to interview workers during working hours on the job.

- d) *Incorporation of contract clauses and wage determinations by reference.* Although agencies are required to insert the contract clauses set forth in this section, along with appropriate wage determinations, in full into covered contracts, and contractors and subcontractors are required to insert them in any lower-tier subcontracts, the incorporation by reference of the required contract clauses and appropriate wage determinations will be given the same force and effect as if they were inserted in full text.
- e) *Incorporation by operation of law.* The contract clauses set forth in this section (or their equivalent under the Federal Acquisition Regulation), along with the correct wage determinations, will be considered to be a part of every prime contract required by the applicable statutes referenced by § 5.1 to include such clauses, and will be effective by operation of law, whether or not they are included or incorporated by reference into such contract, unless the Administrator grants a variance, tolerance, or exemption from the application of this paragraph. Where the clauses and applicable wage determinations are effective by operation of law under this paragraph, the prime contractor must be compensated for any resulting increase in wages in accordance with applicable law.

PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

Prohibition on Certain Telecommunications and Video Surveillance Services or Equipment (Effective August 13, 2020). The John S. McCain National Defense Authorization Act for Fiscal Year 2019 (P.L. 115-232), at Section 889, prohibits EPA financial assistance recipients, including WIFIA borrowers, from expending loan funds to procure or obtain; extend or renew a contract to procure or obtain; or enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that use covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in the Act, “covered telecommunications equipment or services” means:

- a) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- b) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- c) Telecommunications or video surveillance services provided by such entities or using such equipment.
- d) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.
- e) The Act does not prohibit:
- f) Procuring with an entity to provide a service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements.
- g) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.

ECONOMIC AND MISCELLANEOUS AUTHORITIES

DEBARMENT AND SUSPENSION AND PROHIBITIONS RELATING TO VIOLATIONS OF CWA AND CAA WITH RESPECT TO FEDERAL CONTRACTS, GRANTS, OR LOANS

Debarment and Suspension. Contractor certifies that it will not knowingly enter into a contract with anyone who is ineligible under the 2 CFR part 180 and part 1532 (per Executive Order 12549, 51 FR 6370, February 21, 1986) or who is prohibited under Section 306 of the Clean Air Act or Section 508 of the Clean Water Act to participate in the [Project]. Suspension and debarment information can be accessed at <http://www.sam.gov>. Contractor represents and warrants that it has or will include a term or conditions requiring compliance with this provision in all of its subcontracts under this Agreement.

NEW RESTRICTIONS ON LOBBYING

Federal Lobbying Restrictions (31 U.S.C 1352). Recipients of federal financial assistance may not pay any person for influencing or attempting to influence any officer or employee of a federal agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress with respect to the award, continuation, renewal, amendment, or modification of a federal grant, loan, or contract. These requirements are implemented for USEPA in 40 CFR Part 34, which also describes types of activities, such as legislative liaison activities and professional and technical services, which are not subject to this prohibition. Upon award of this contract, Contractor shall complete and submit to the City the certification and disclosure forms in Appendix A and Appendix B to 40 CFR Part 34. Contractor shall also require all subcontractors and suppliers of any tier awarded a subcontract over \$100,000 to similarly complete and submit the certification and disclosure forms pursuant to the process set forth in 40 CFR 34.110.

CIVIL RIGHTS, NONDISCRIMINATION, AND EQUAL EMPLOYMENT OPPORTUNITY AUTHORITIES

AGE DISCRIMINATION ACT, SECTION 504 OF THE REHABILITATION ACT, TITLE VI OF THE CIVIL RIGHTS ACT OF 1964, AND SECTION 13 OF THE CLEAN WATER ACT

CIVIL RIGHTS OBLIGATIONS. Contractor shall comply with the following federal non-discrimination requirements:

- Title VI of the Civil Rights Act of 1964, which prohibits discrimination based on race, color, and national origin, including limited English proficiency (LEP). (42 U.S.C 2000D, *et. seq*)
- Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination against persons with disabilities. (29 U.S.C. 794, supplemented by EO 11914, 41 FR 17871, April 29, 1976 and EO 11250, 30 FR 13003, October 13, 1965)
- The Age Discrimination Act of 1975, which prohibits age discrimination. (42 U.S.C 6101 *et. seq*)
- Section 13 of the Federal Water Pollution Control Act Amendments of 1972, which prohibits discrimination on the basis of sex.
- 40 CFR Part 7, as it relates to the foregoing.

EQUAL EMPLOYMENT OPPORTUNITY

Note the language below include 41 CFR 60 contract language for: EEO, Standard Federal Equal Employment Opportunity Construction Contract Specifications, and Segregated Facilities.

Executive Order 14173, Ending Illegal Discrimination and Restoring Merit-Based Opportunity, revokes Executive Order 11246, Equal Employment Opportunity. However, the Department of Labor issued regulations implementing certain sections of the EO 11246 at 41 CFR part 60. Until DOL revokes these regulations, they remain effective law and compliance is required. Note that the required contract language references the revoked EO 11246 in several places. Though the language is required, any mention of EO 11246 can be disregarded.

Equal Employment Opportunity (EEO). The Contractor shall comply with Executive Order 11246, entitled 'Equal Employment Opportunity,' as amended by Executive Order 11375, and as supplemented in Department of Labor regulations (41 CFR Part 60). (EO 11246, 30 FR 12319, September 28, 1965)

Contractor's compliance with Executive order 11246 shall be based on implementation of the Equal Opportunity Clause, and specific affirmative active obligations required by the Standard Federal Equal Employment Opportunity Construction Contract Specifications, as set forth in 41 CFR Part 60-4.

During the performance of this contract, the contractor agrees as follows:

1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

2. The contractor will, in all solicitations or advancements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
3. The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
4. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
5. The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
6. The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
7. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept. 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
8. The contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of September 24, 1965, so that such

provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States. [Sec. 202 amended by EO 11375 of Oct. 13, 1967, 32 FR 14303, 3 CFR, 1966–1970 Comp., p. 684, EO 12086 of Oct. 5, 1978, 43 FR 46501, 3 CFR, 1978 Comp., p. 230, EO 13665 of April 8, 2014, 79 FR 20749, EO 13672 of July 21, 2014, 79 FR 42971]

Standard Federal Equal Employment Opportunity Construction Contract Specifications. (41 CFR 60-4.3)

2) As used in these specifications:

- f) “Covered area” means the geographical area described in the solicitation from which this contract resulted;
- g) “Director” means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
- h) “Employer identification number” means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
- i) “Minority” includes:
 - i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);
 - iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2) Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

- 3) If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

- 4) The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
- 5) Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
- 6) In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
- 7) The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a) Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b) Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c) Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d) Provide immediate written notification to the Director when the union or unions with which the

Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

- e) Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f) Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g) Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h) Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
- i) Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j) Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k) Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.
- l) Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

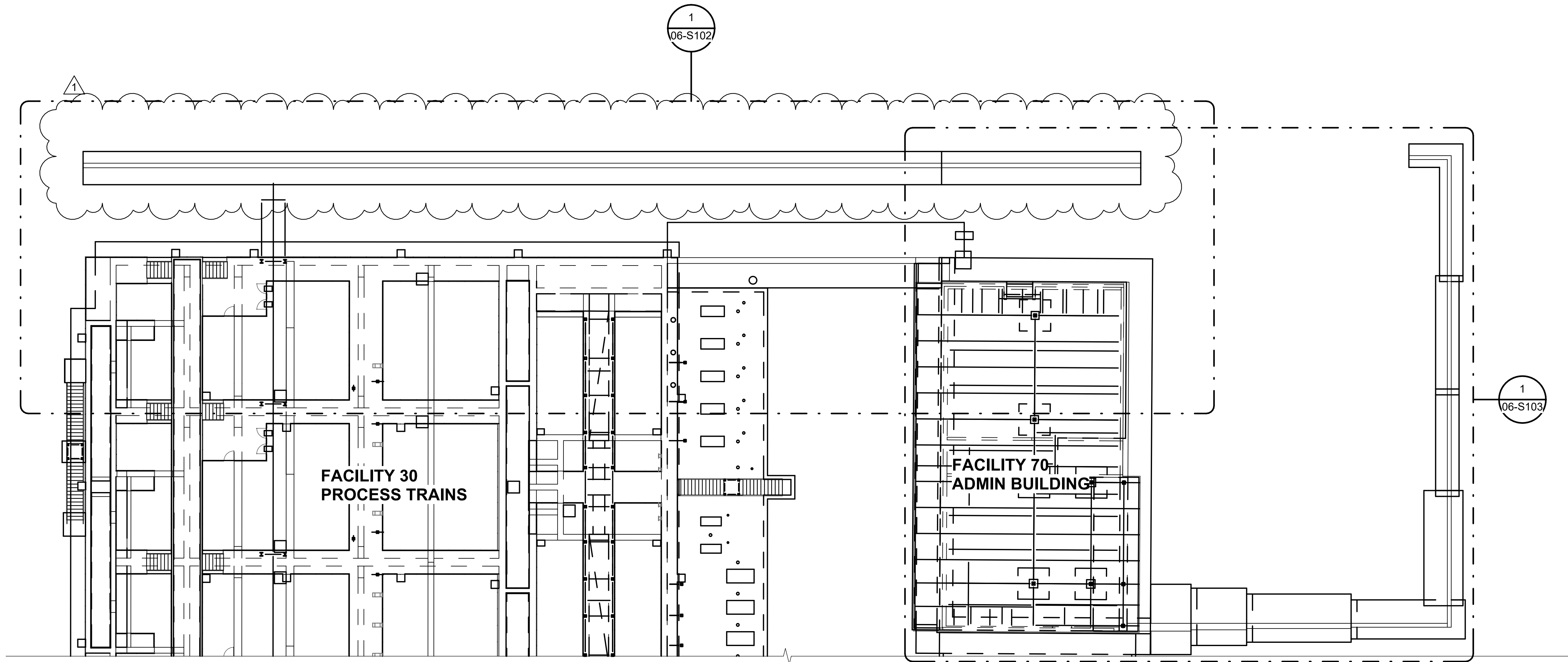
- m) Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n) Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o) Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p) Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- 8) Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
 - 9) A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
 - 10) The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, or national origin.
 - 11) The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
 - 12) The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
 - 13) The Contractor, in fulfilling its obligations under these specifications, shall implement specific

affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

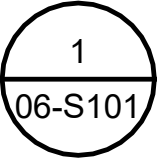
- 14) The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- 15) Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

Segregated Facilities. (41 CFR 60-1.8) The contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensuring that its employees are not assigned to perform their services at any location, under the contractor's control, where the facilities are segregated. This obligation extends to all contracts containing the equal opportunity clause regardless of the amount of the contract. The term "facilities," as used in this section, means waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, wash rooms, locker rooms, and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees; Provided, That separate or single-user restrooms and necessary dressing or sleeping areas shall be provided to assure privacy between the sexes.

Revit File: Autodeskt Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_06_RETAINING WALLS_STRUCTURAL.rvt
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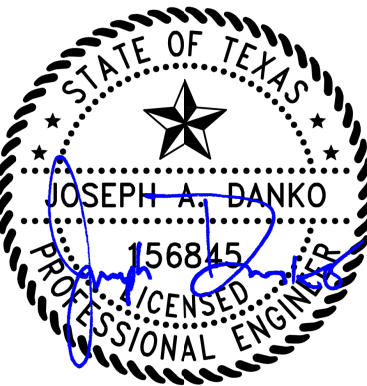
 **OVERALL PLAN**
SCALE: 1/16" = 1'-0"

- NOTES:
1. FOR GENERAL STRUCTURAL NOTES, SEE STRUCTURAL GENERAL SHEETS.
 2. FOR FACILITY SITE COORDINATES AND GRADING, SEE CIVIL DRAWINGS.



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REGISTRATION NO.
F-5713



09/23/26

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1	09/23/26	ADDENDUM #5	JAD


CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

ADMIN FACILITY
RETAINING WALLS
OVERALL PLAN PLAN

JOB NO.: W07-2401219
DATE: AUG 2026
DESIGNED BY: JAD
DRAWN BY: JAD
CHECKED BY: YT

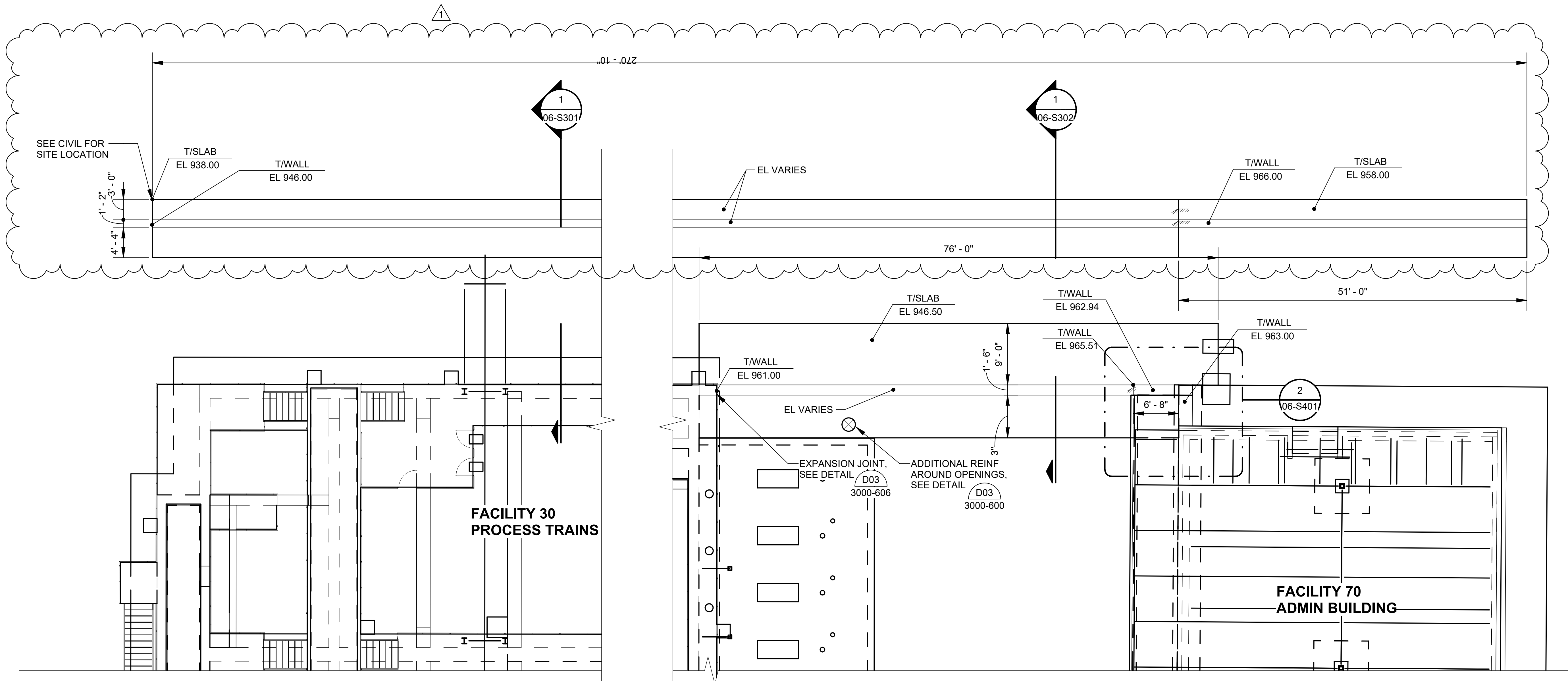
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DRAWING NUMBER
06-S101
SHEET NUMBER **104**

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Plot Date: 9/22/2026 2:52:38 PM

NOTES:

1. FOR GENERAL STRUCTURAL NOTES, SEE STRUCTURAL GENERAL SHEETS.
2. FOR FACILITY SITE COORDINATES AND GRADING, SEE CIVIL DRAWINGS.



1
06-S102

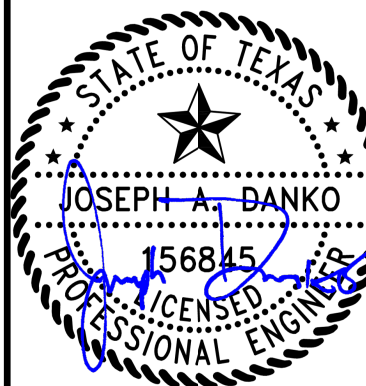
MAIN ROAD PLAN

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

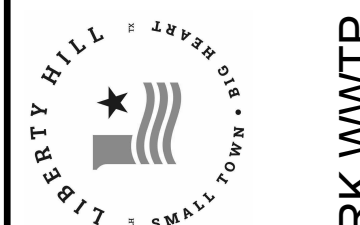


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CITY OF LIBERTY HILL
LIBERTY HILL, TX
LIBERTY HILL NORTH FORK WWTP

MAIN ROAD
RETAINING WALLS
PLAN

JOB NO.: W07-2401219
DATE: AUG 2026
DESIGNED BY: JAD
DRAWN BY: JAD
CHECKED BY: YT

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DRAWING NUMBER

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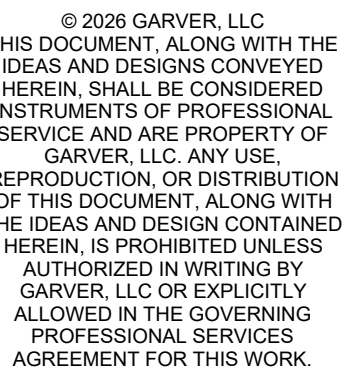
SHEET
NUMBER 105



SECTION

06-S102 SCALE: 3/8" = 1'-0"

1. FOR ALL LAP/HOOK LENGTHS, SEE DETAILS (D03)
3000-100C
2. A 12" CLAY CAP SHALL EXTEND 5'-0" BEYOND THE EXTENTS OF THE BACKFILLED REGION, SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
3. PROVIDE FLEXIBLE BASE BELOW FOUNDATION AS SHOWN, SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
4. STRUCTURAL SELECT FILL LAYER SHALL BE MINIMUM THICKNESS SHOWN. SELECT FILL SHALL ALSO BE USED FOR BACKFILL. SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
5. SCARIFY TO A DEPTH OF 6", MOISTURE CONDITION, AND COMPACT. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



9/23/26

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1	09/23/26	ADDENDUM #5	JAD



CITY OF LIBERTY HILL

קומברסו וילברד, יא

LIBERTY HILL NORTH FORK WWIP

MAIN ROAD RETAINING WALLS SECTION 1

JOB NO.: W07-2401219
 DATE: AUG 2026
 DESIGNED BY: JAD
 DRAWN BY: JAD
 CHECKED BY: YT

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ORIGINAL DRAWING

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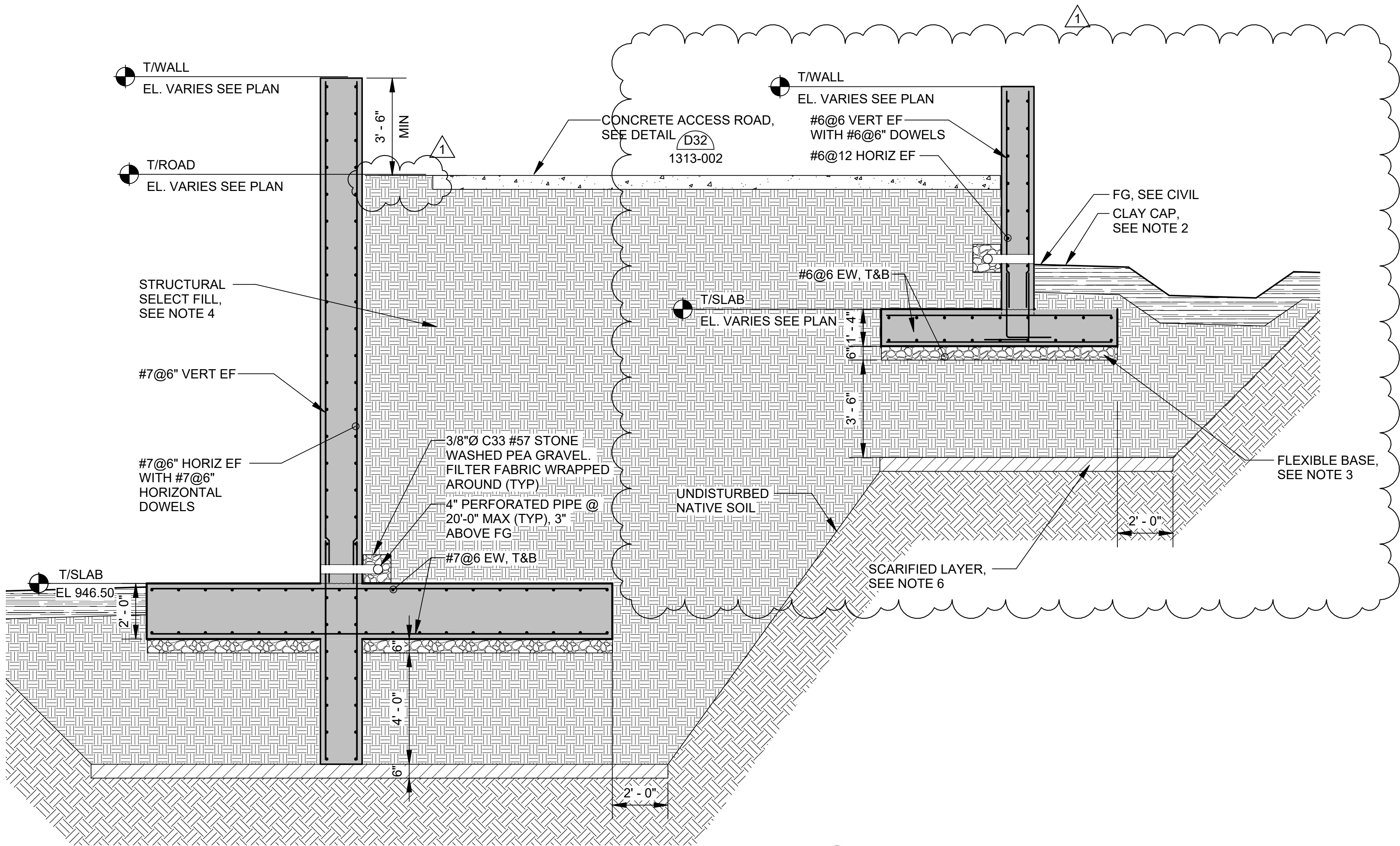
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DRAWING NUMBER

06-S301

SHEET NUMBER **107**

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1 SECTION
06-S102 SCALE: 3/8" = 1'-0"

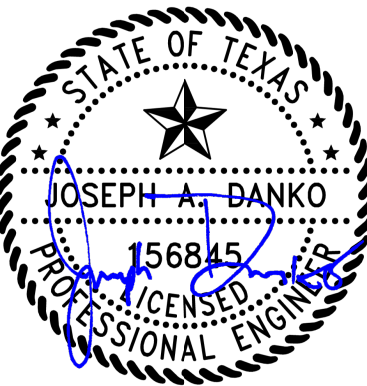
NOTES

1. FOR ALL LAP/HOOK LENGTHS, SEE DETAILS (D03) 3000-100C
2. A 12" CLAY CAP SHALL EXTEND 5'-0" BEYOND THE EXTENTS OF THE BACKFILLED REGION, SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
3. PROVIDE FLEXIBLE BASE BELOW FOUNDATION AS SHOWN, SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
4. STRUCTURAL SELECT FILL LAYER SHALL BE MINIMUM THICKNESS SHOWN. SELECT FILL SHALL ALSO BE USED FOR BACKFILL. SEE GENERAL NOTES FOR MATERIAL AND COMPACTION REQUIREMENTS.
5. SCARIFY TO A DEPTH OF 6", MOISTURE CONDITION, AND COMPACT. SEE GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.



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CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

MAIN ROAD
RETAINING WALLS
SECTION 2

JOB NO.: W07-2401219
DATE: AUG 2026
DESIGNED BY: JAD
DRAWN BY: JAD
CHECKED BY: YT

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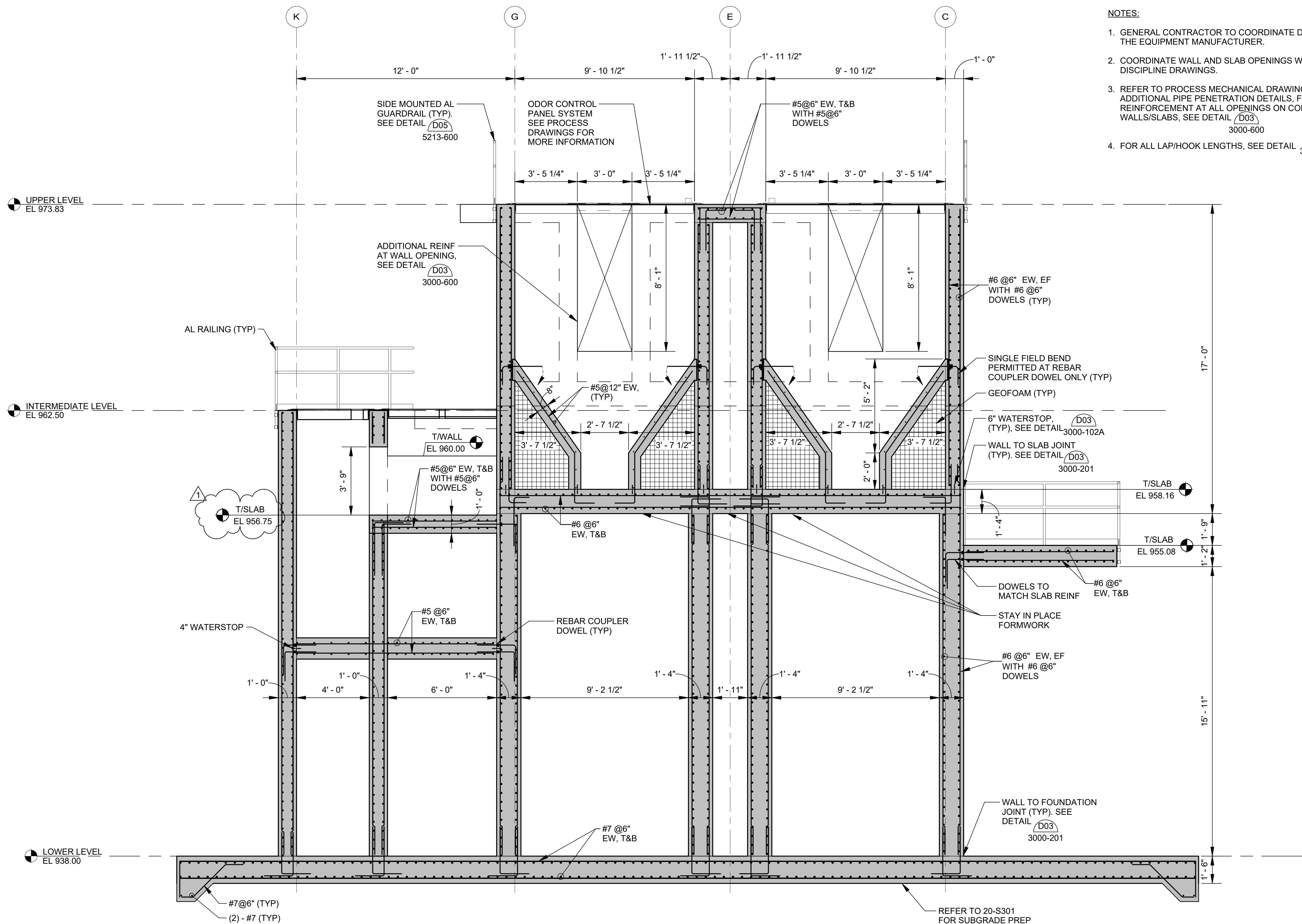
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DRAWING NUMBER

06-S302

SHEET NUMBER 108

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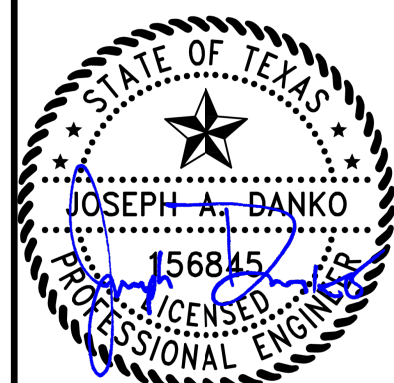


- NOTES:
1. GENERAL CONTRACTOR TO COORDINATE DIMENSION WITH THE EQUIPMENT MANUFACTURER.
 2. COORDINATE WALL AND SLAB OPENINGS WITH OTHER DISCIPLINE DRAWINGS.
 3. REFER TO PROCESS MECHANICAL DRAWINGS FOR ADDITIONAL PIPE PENETRATION DETAILS, FOR REINFORCEMENT AT ALL OPENINGS ON CONCRETE WALLS/SLABS, SEE DETAIL (D03) 3000-600
 4. FOR ALL LAP/HOOK LENGTHS, SEE DETAIL (D03) 3000-100C



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1	09/23/26	ADDENDUM #5	JAD

CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL - SEVEN DIB - SMALL TOWN

LIBERTY HILL NORTH FORK WWTP

SECONDARY
HEADWORKS
SECTION 5

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: JAD
DRAWN BY: EL
CHECKED BY: YT

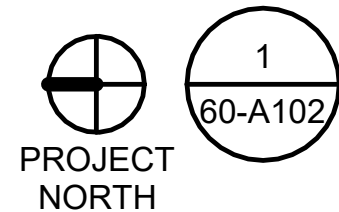
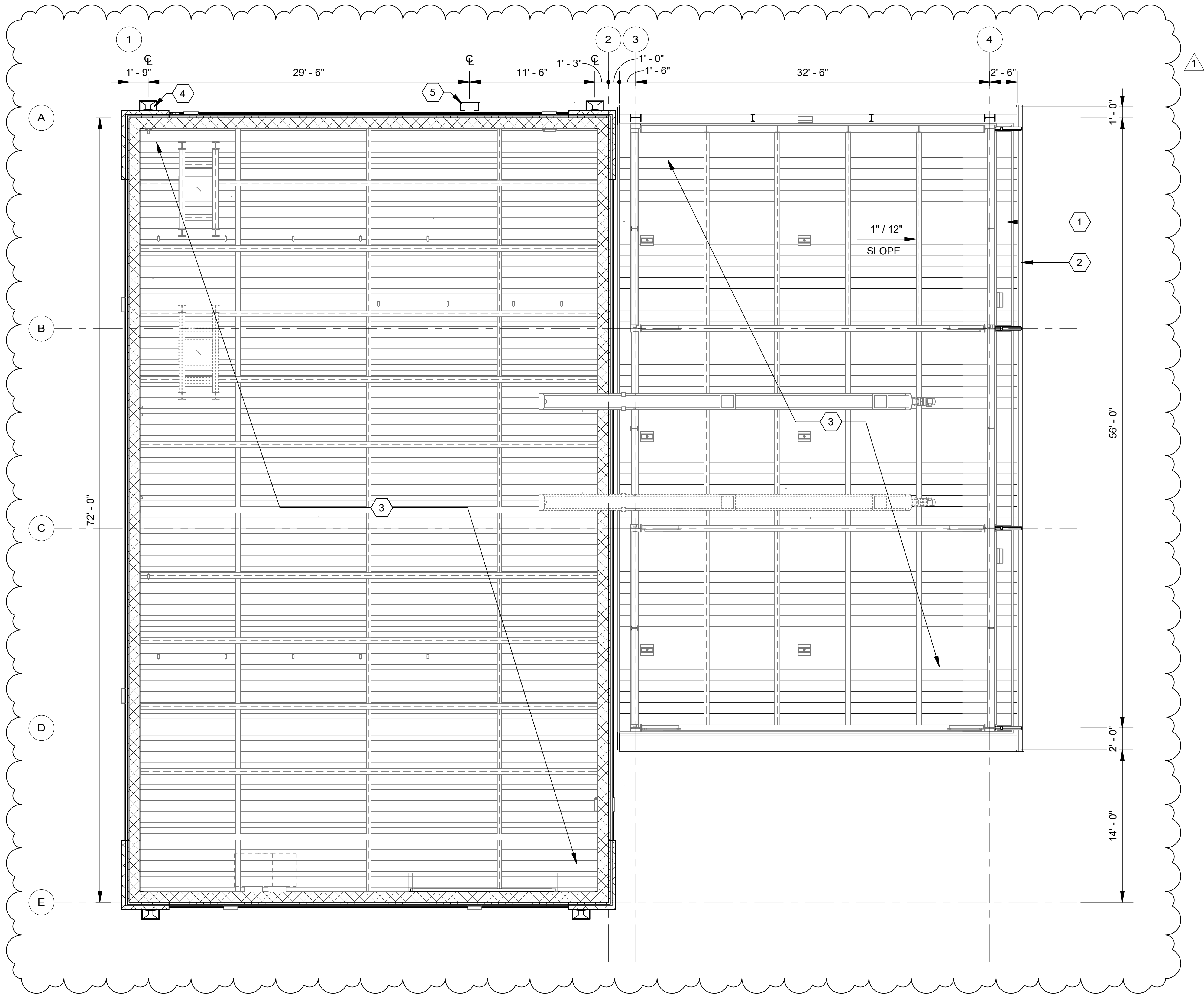
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DRAWING NUMBER
20-S305

SHEET
NUMBER **180**

SECTION 1
20-S101 SCALE: 3/8" = 1'-0"

Revit File: Autodeskt Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_80_DEWATERING BUILDING_ARCHITECTURAL.rvt
Plot Date: 9/21/2026 1:24:51 PM



REFLECTED CEILING PLAN

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

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.

KEYNOTES

1	METAL DECK
2	PREFINISHED METAL FASCIA
3	EXPOSED METAL ROOF DECK OVER STEEL GIRDERS, RE: STRUCTURE
4	PREFINISHED METAL SCUPPER & DOWNSPOUT
5	METAL LADDER

LEGEND

- 2' X 2' LAY IN CEILING SYSTEM
- GYP. BD. CEILING
- KEYED NOTE
- 1'x4' LIGHTING FIXTURE
- 1'x4' EGRESS LIGHT FIXTURE - SEE SCHEDULE
- 2'x4' LIGHTING FIXTURE
- EXTERIOR LIGHTING FIXTURE
- DOWNLIGHT
- WALL MOUNTED LIGHT
- WALL MOUNTED EMERGENCY LIGHT
- CEILING MOUNTED EXIST SIGN
- SUPPLY DIFFUSER
- RETURN DIFFUSER

NOTE: REFER TO MECH & ELEC FOR DIFFUSER & LIGHT INFORMATION



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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM # 5	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

DEWATERING
BUILDING REFLECTED
CEILING PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

BAR IS ONE INCH ON
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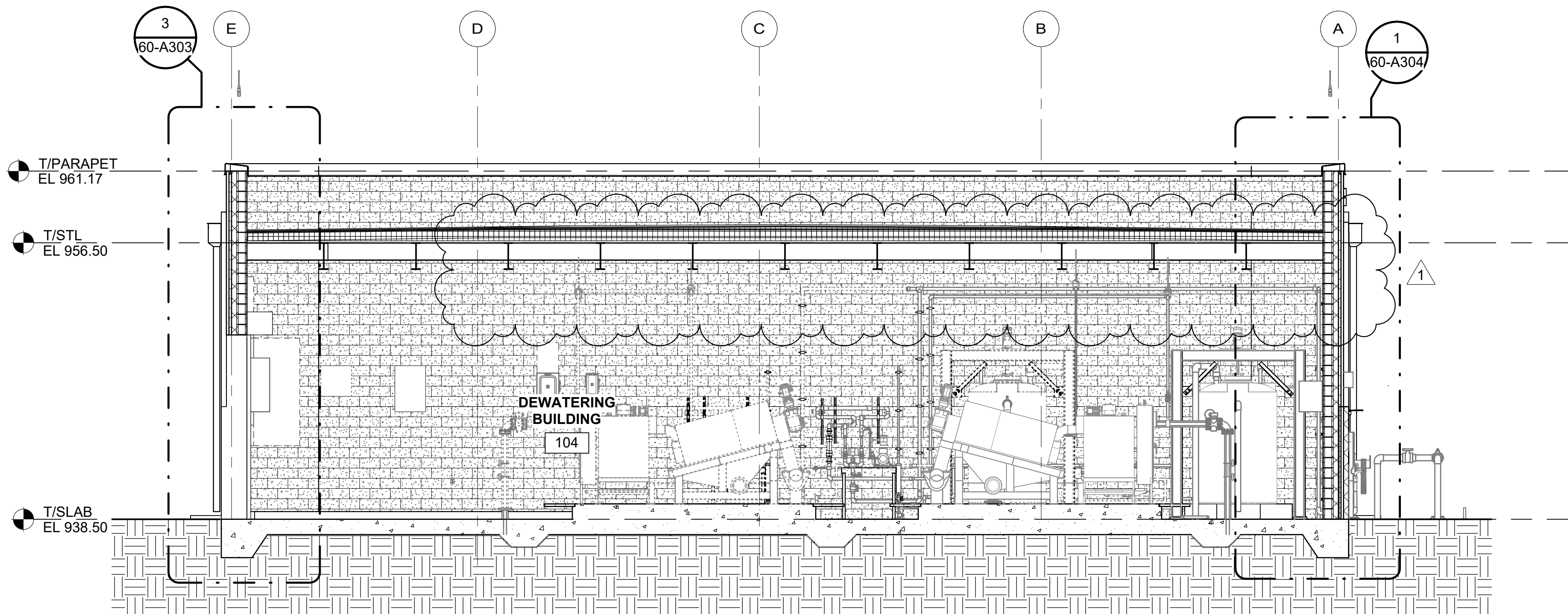
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DRAWING NUMBER

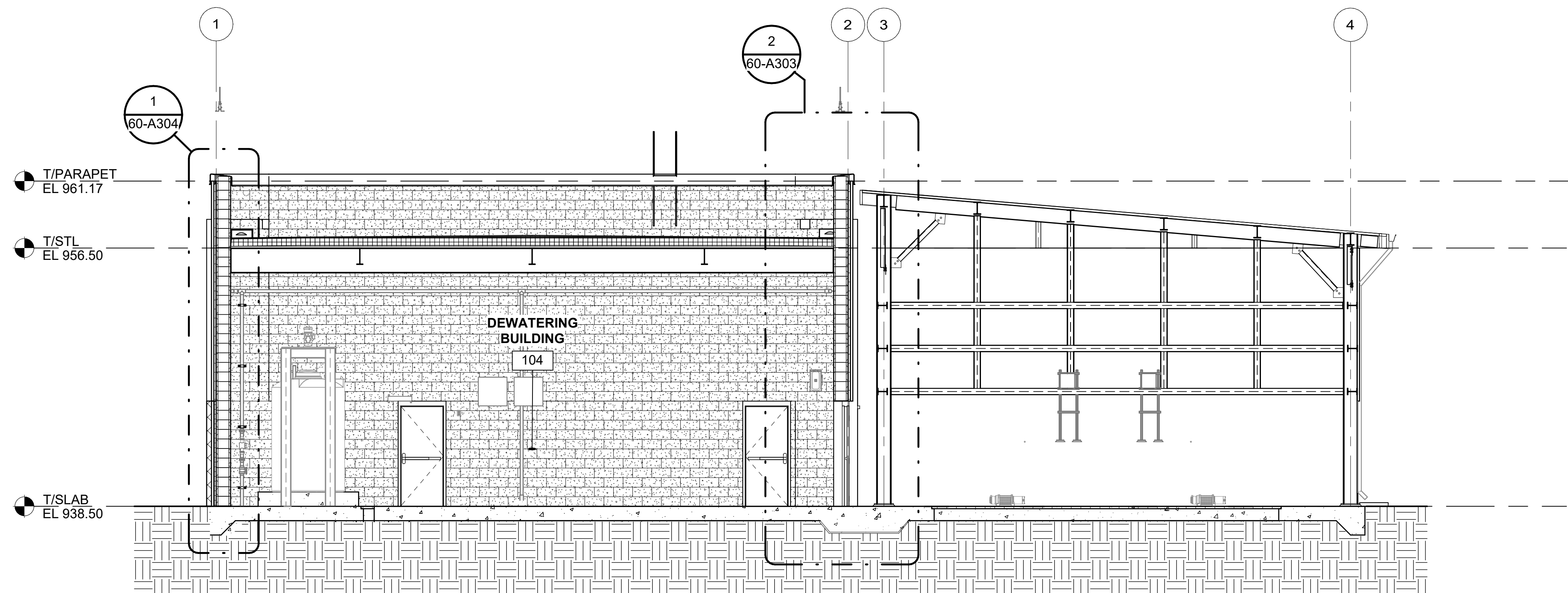
60-A102

SHEET
NUMBER **403**

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Plot Date: 9/21/2026 1:24:56 PM



1 BUILDING SECTION
60-A101 SCALE: 3/16" = 1'-0"



2 BUILDING SECTION
60-A101 SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO A600 SERIES FOR FLOOR FINISHES
9. REFER TO A600 SERIES FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO A500 SERIES FOR PARTITION SCHEDULE

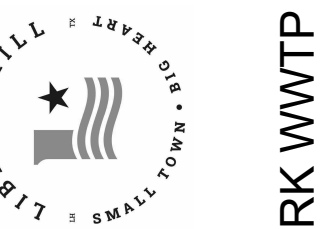


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REGISTRATION NO.
BR-60



REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM # 5	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

DEWATERING
BUILDING SECTIONS 1

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

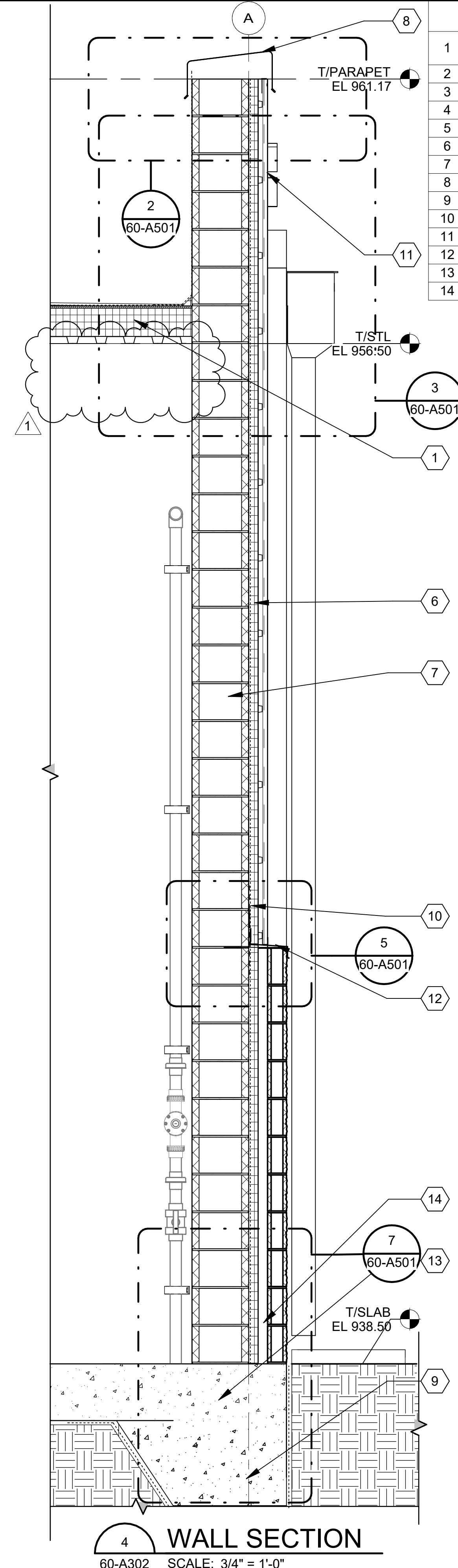
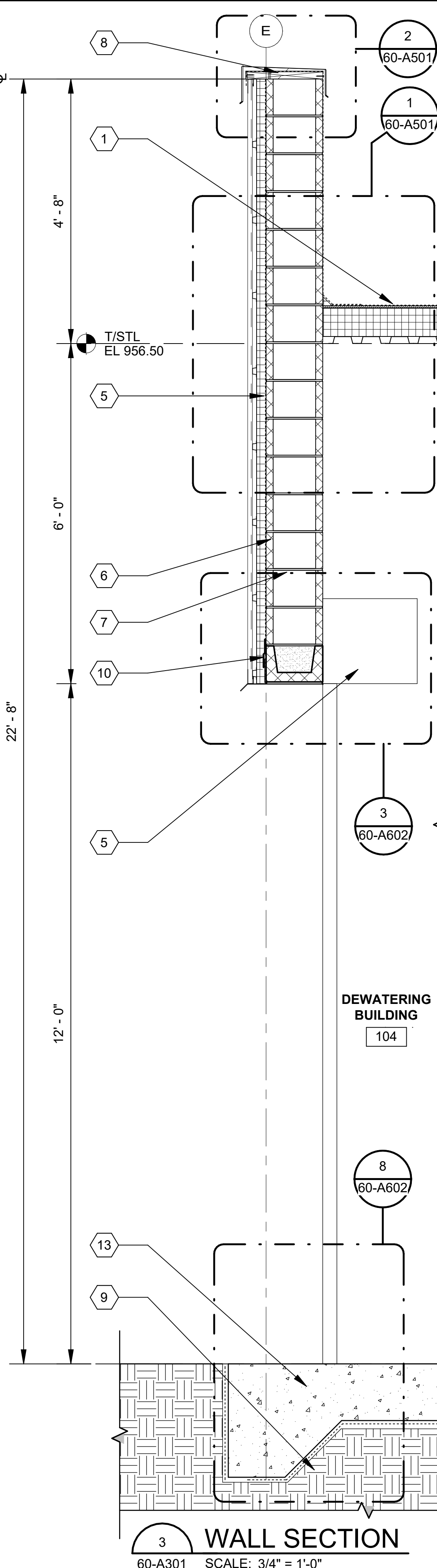
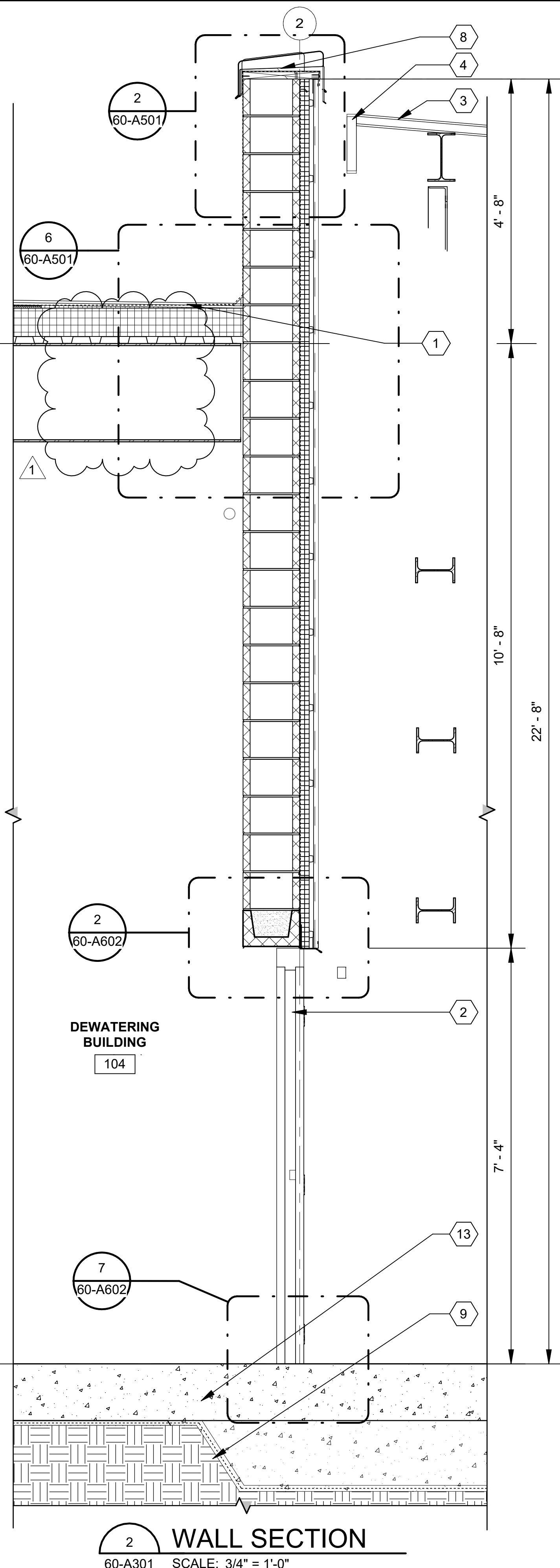
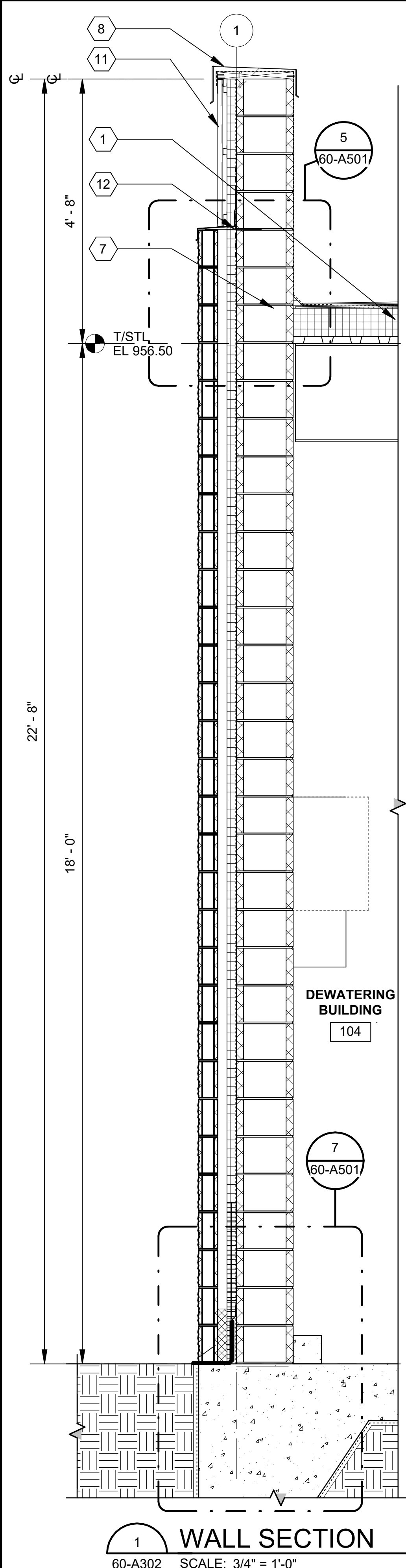
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DRAWING NUMBER

60-A301

SHEET
NUMBER **407**

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Plot Date: 9/21/2026 1:24:58 PM



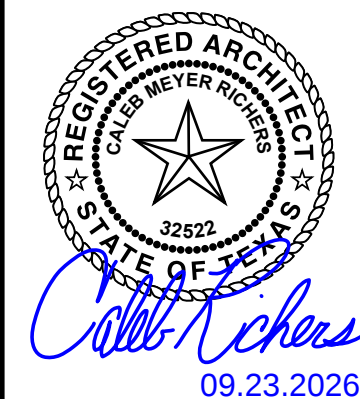
KEYNOTES

1	PVC ROOF MEMBRANE OVER GYPSUM ROOF COVER BOARD, CONT. RIGID POLYISO INSULATION
2	HOLLOW METAL DOOR
3	METAL DECK
4	PREFINISHED METAL FASCIA
5	OVERHEAD COILING DOOR
6	CONT. RIGID POLYISO WALL INSULATION
7	CONCRETE MASONRY UNIT
8	PREFINISHED METAL COPING
9	UNDERSLAB VAPOR BARRIER
10	FLUID-APPLIED MEMBRANE AIR BARRIER
11	PREFINISHED METAL WALL PANEL; 20 GA.
12	PREFINISHED METAL FLASHING; 20 GA.
13	CAST-IN-PLACE CONCRETE RE: STRUCTURAL
14	MORTAR NETKN

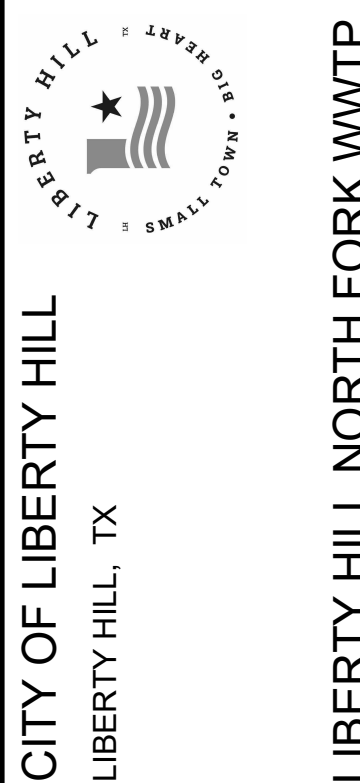


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REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM # 5	CMR



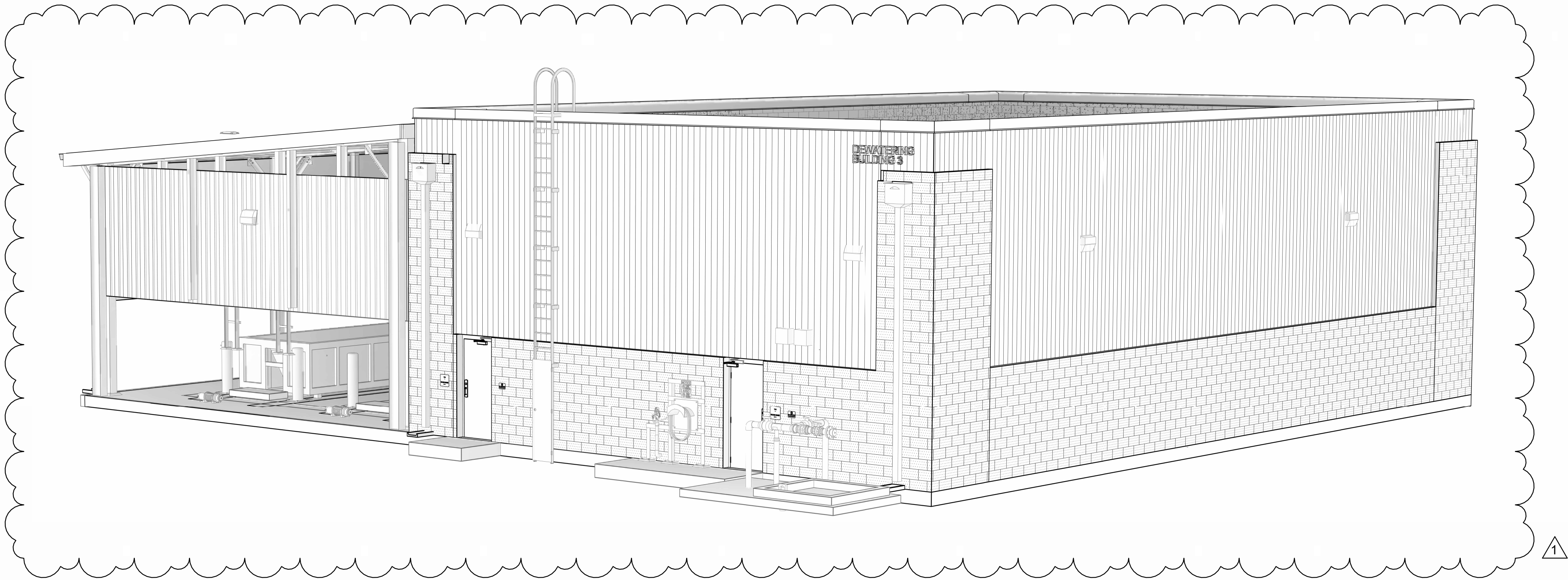
DEWATERING
BUILDING WALL
SECTIONS

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

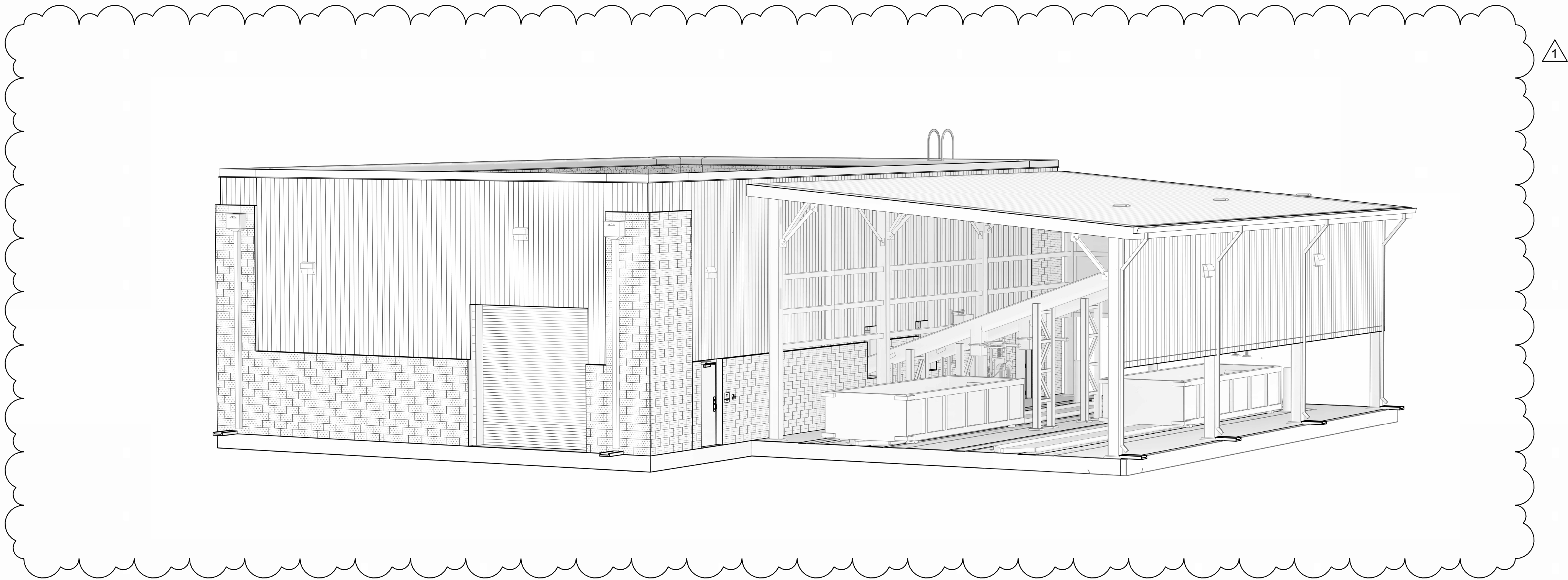
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DRAWING NUMBER
60-A303
SHEET NUMBER **409**

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Plot Date: 9/21/2026 1:26:41 PM



1 BUILDING ISOMETRIC
60-A603 SCALE: NOT TO SCALE



2 BUILDING ISOMETRIC
60-A603 SCALE: NOT TO SCALE

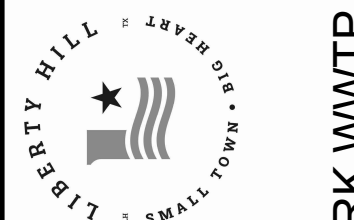


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REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM # 5	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TX

LIBERTY HILL NORTH FORK WWTP

DEWATERING
BUILDING
PERSPECTIVE

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: CIW
CHECKED BY: CMR

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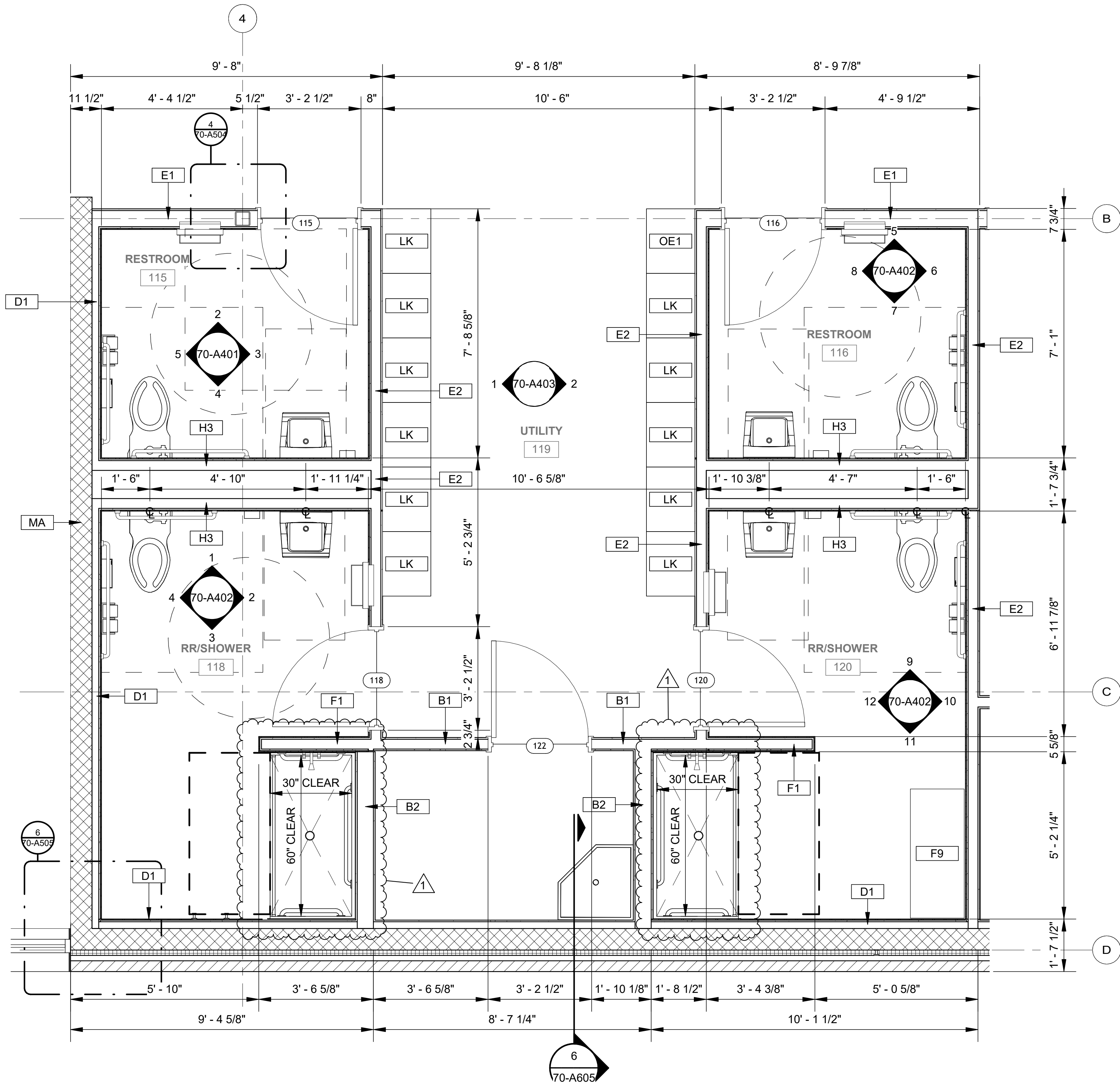
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DRAWING NUMBER

60-A603

SHEET
NUMBER **414**

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Plot Date: 9/21/2026 4:17:37 PM



1
70-A401

ENLARGED PLAN - RR/SHOWER

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

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
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6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO 70-A700 SERIES SHEETS FOR FLOOR FINISHES.
9. REFER TO 70-A600 SERIES SHEETS FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO 70-A500 SERIES SHEETS FOR PARTITION SCHEDULE

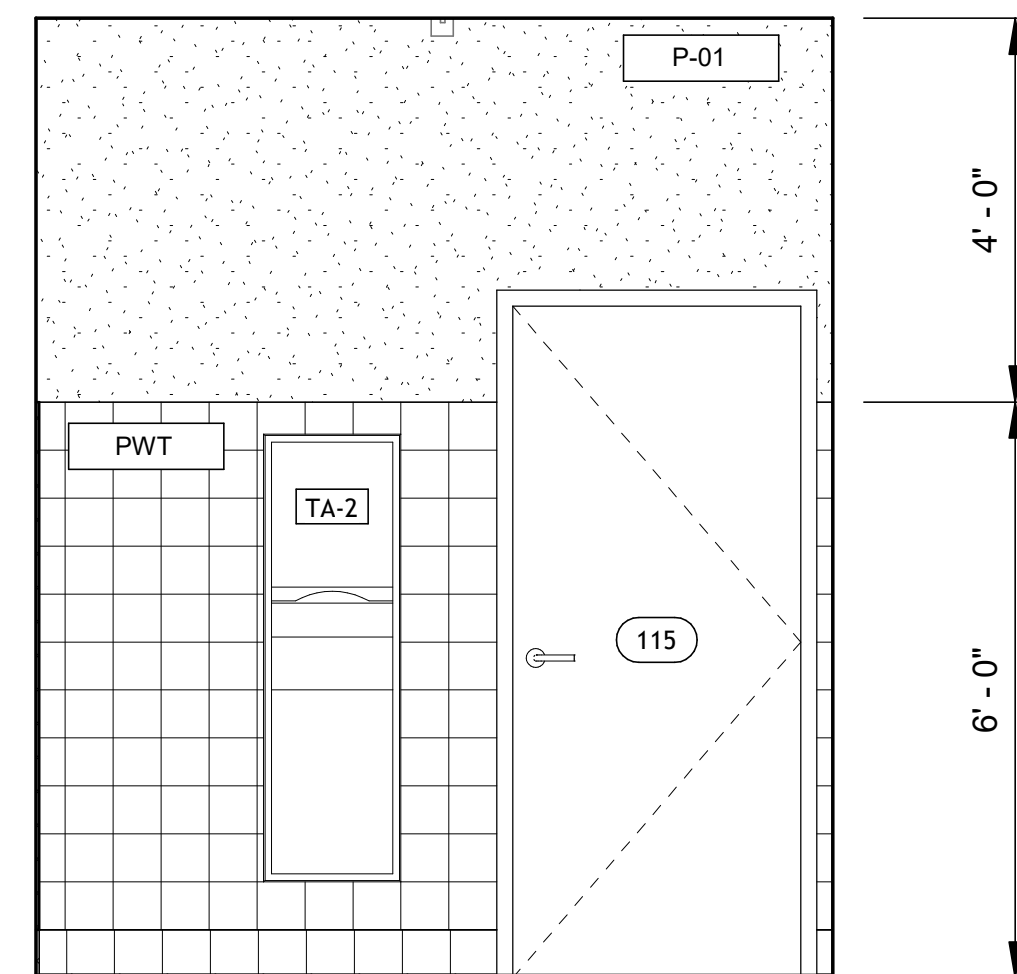


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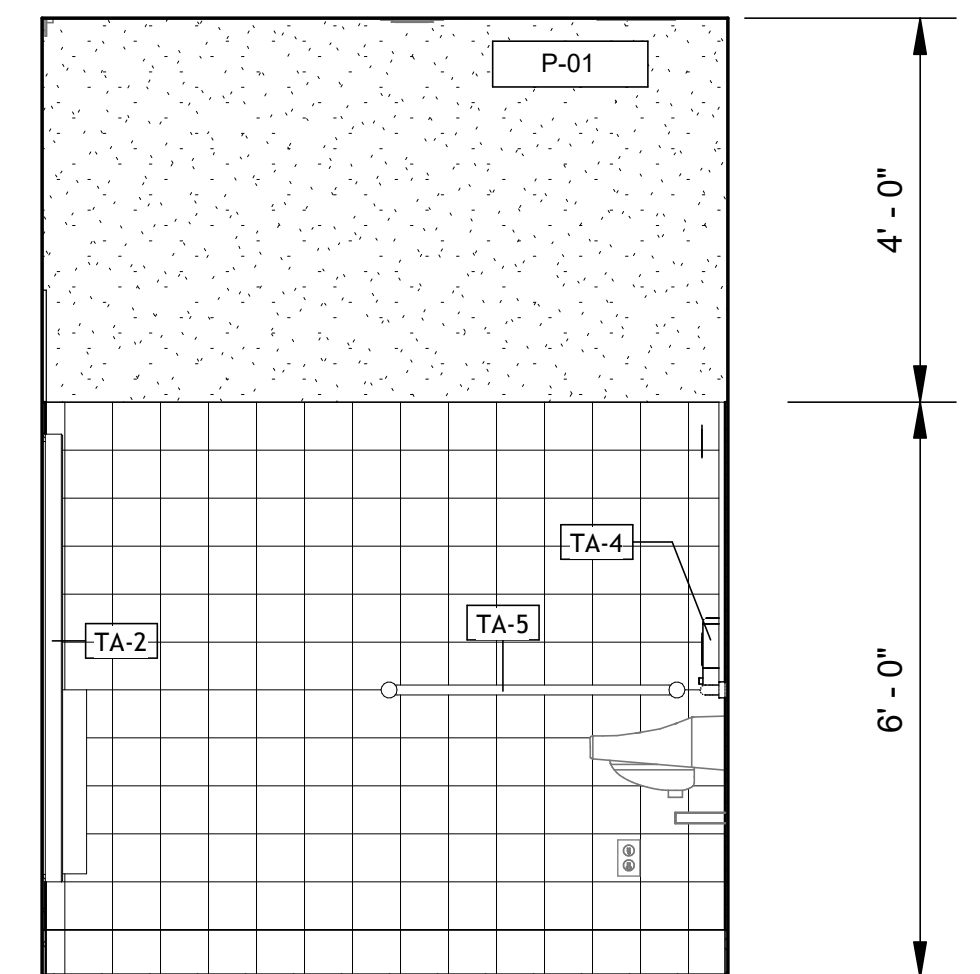


09.23.2026



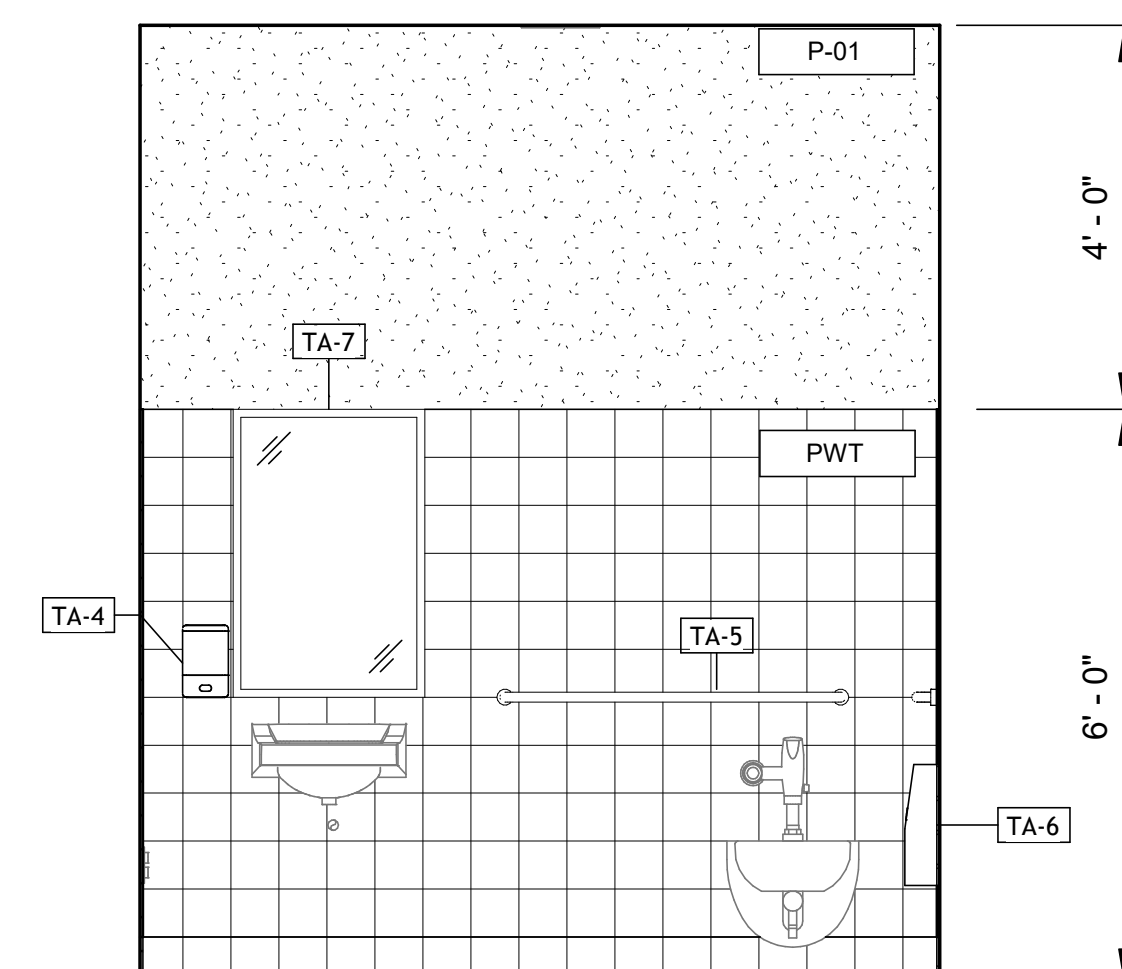
2 RESTROOM 115

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



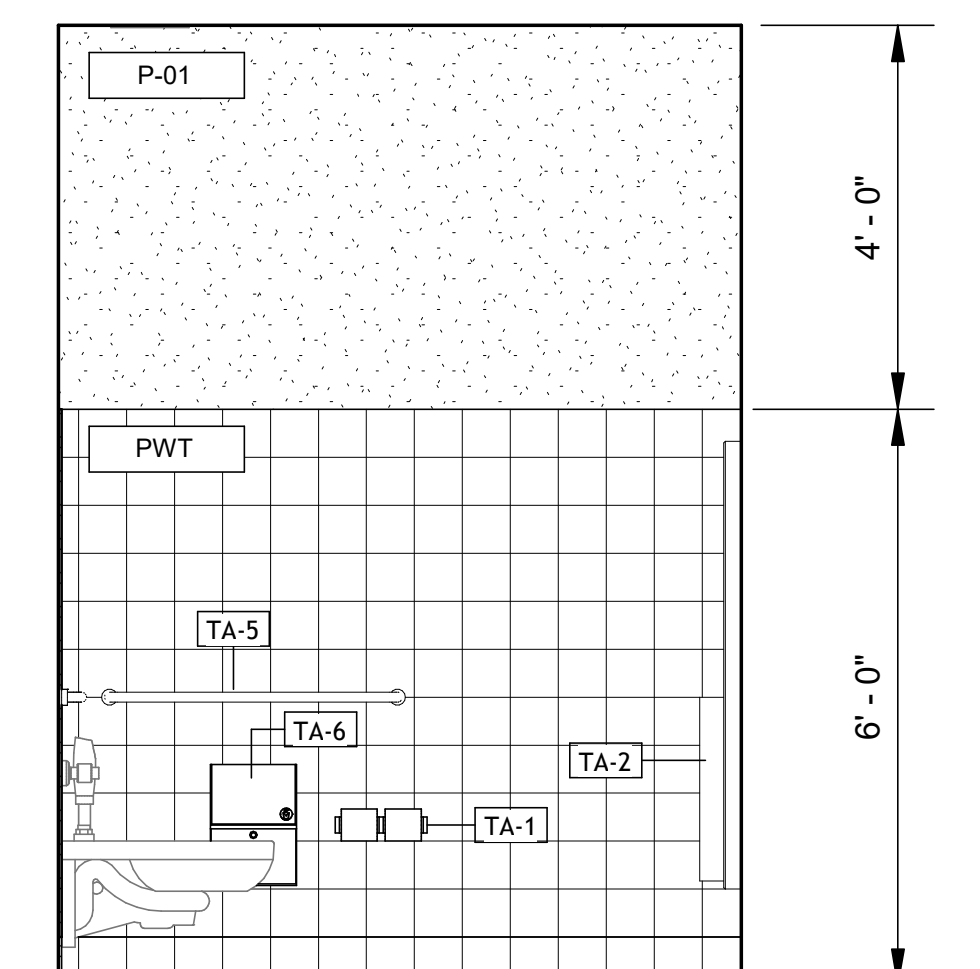
3 RESTROOM 115

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



4 RESTROOM 115

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



5 RESTROOM 115

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

REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM #5	CMR



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS

ADMINISTRATION
BUILDING ENLARGED
PLANS/ INTERIOR
ELEVATIONS

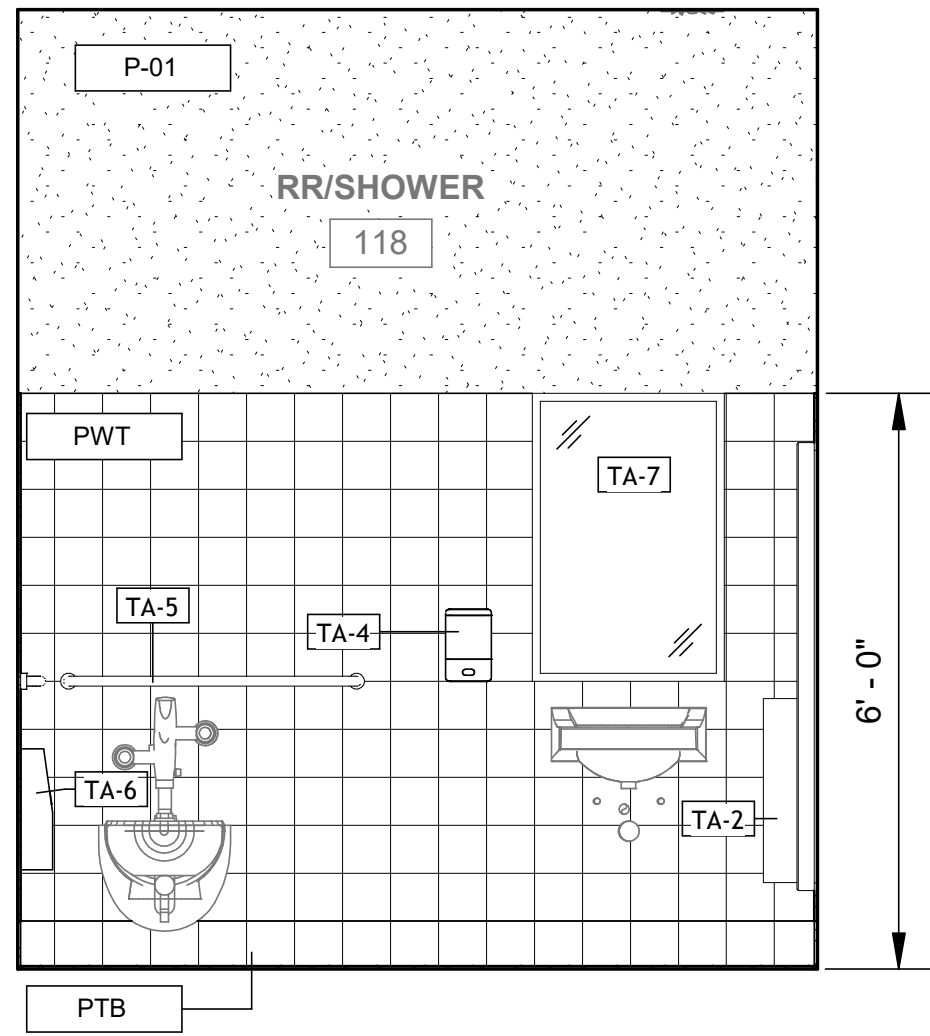
JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

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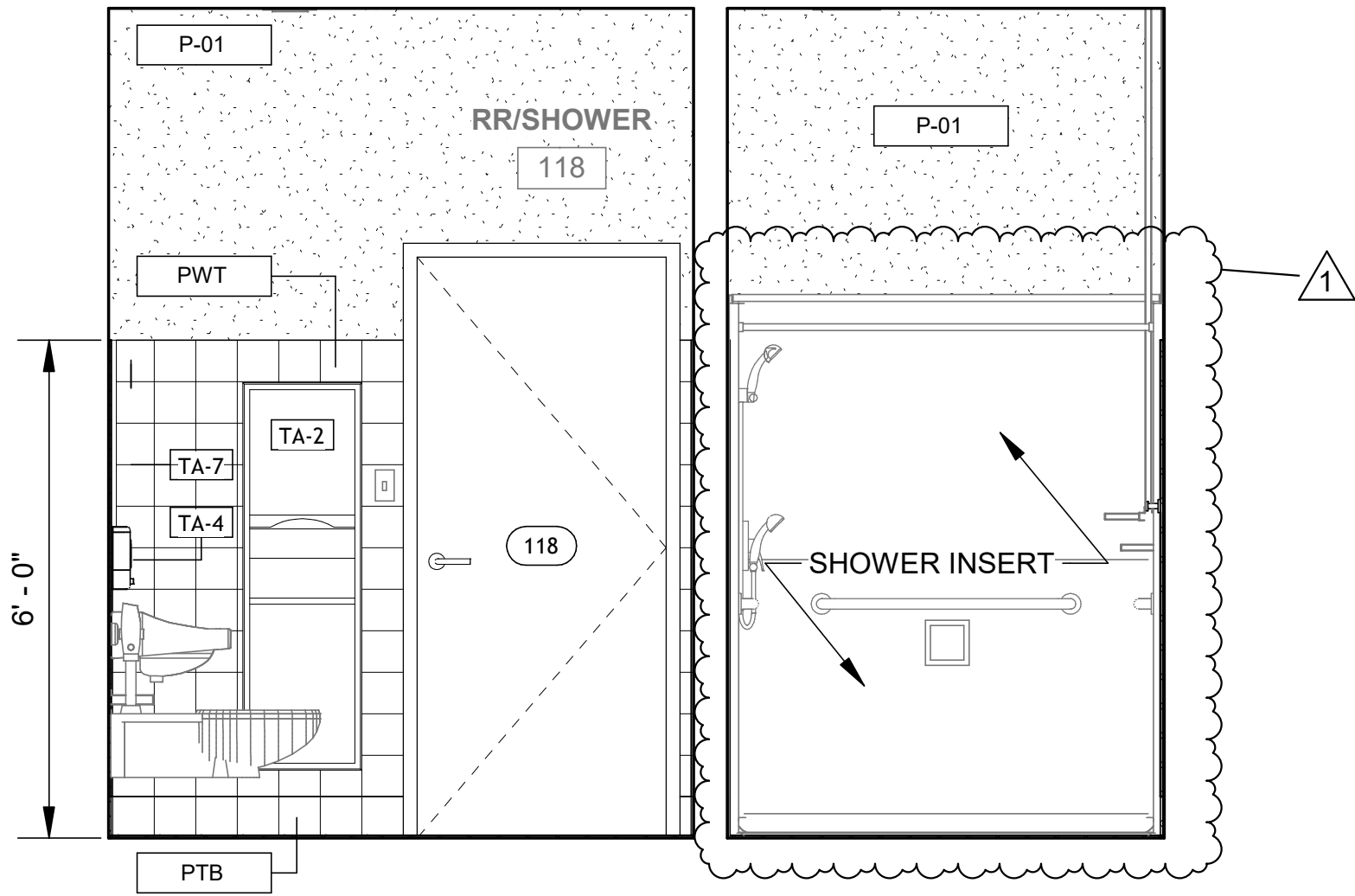
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70-A401

SHEET
NUMBER **477**

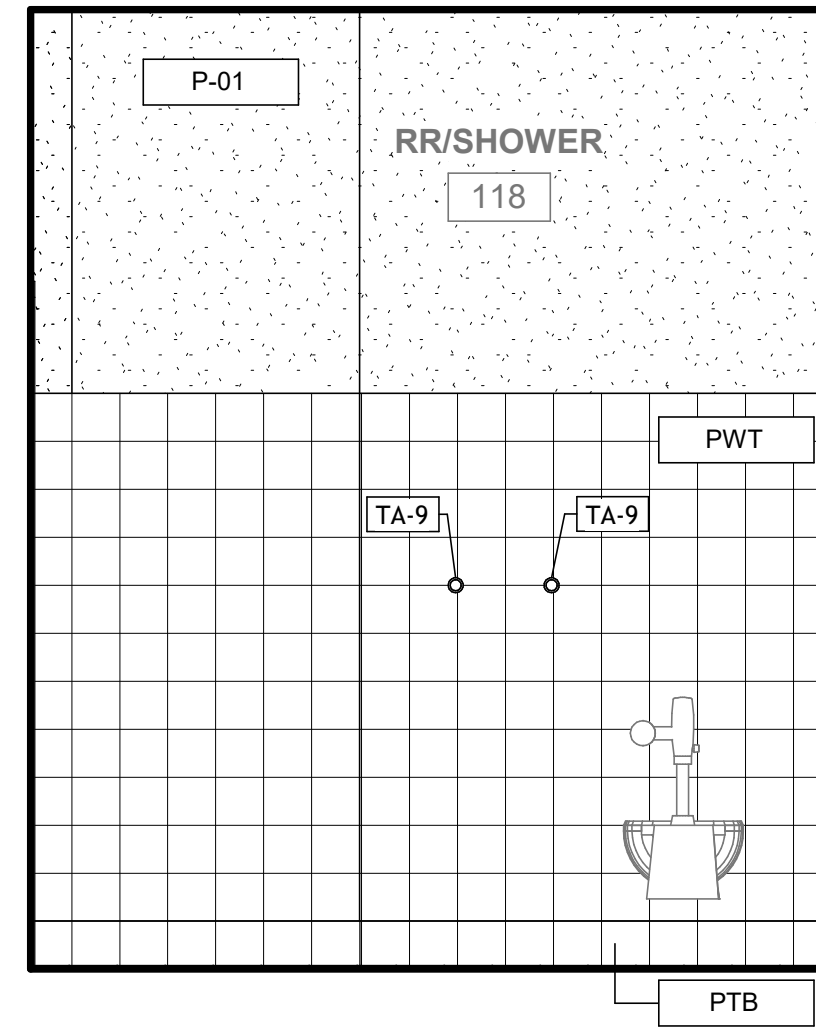
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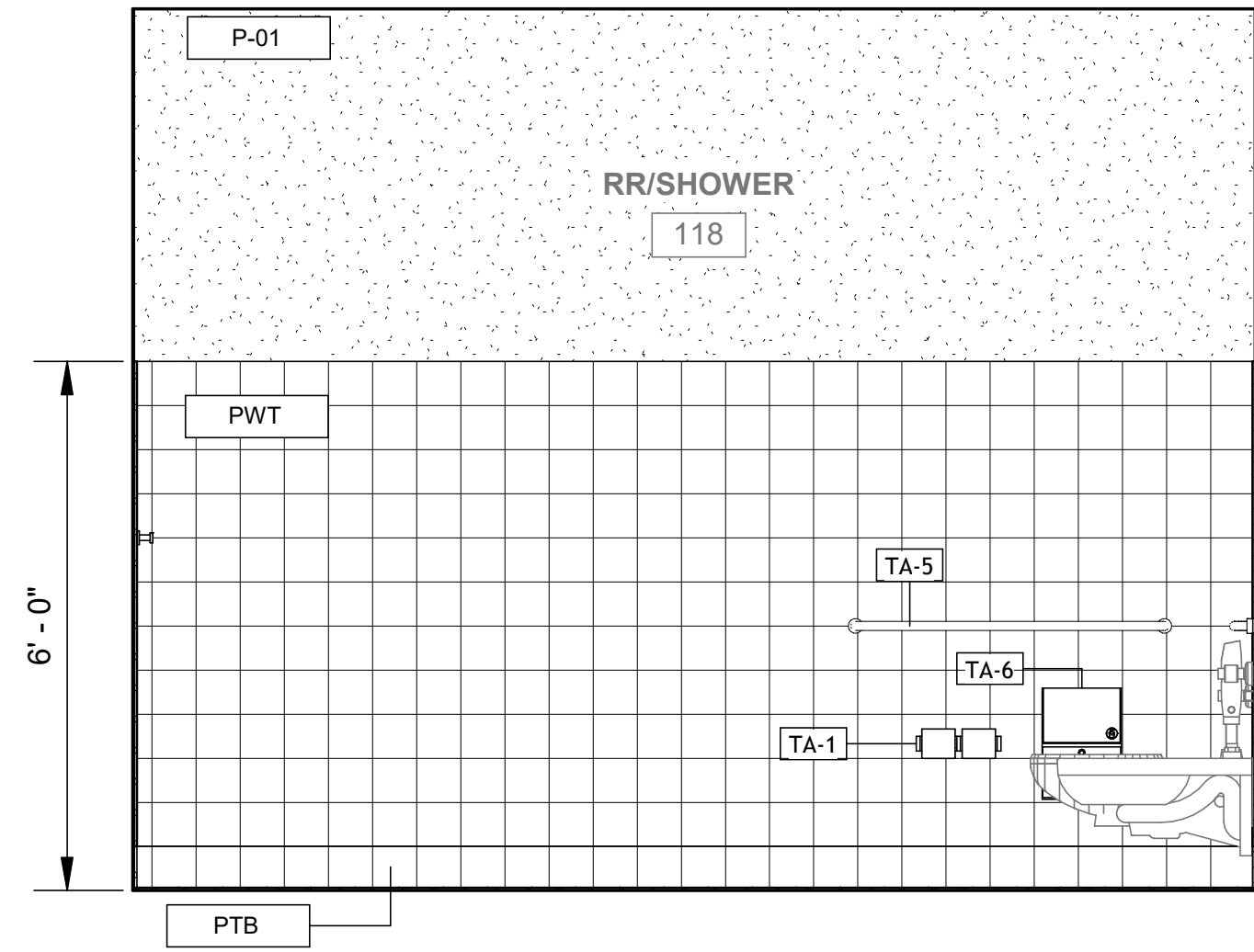
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SCALE: 1/2" = 1'-0"



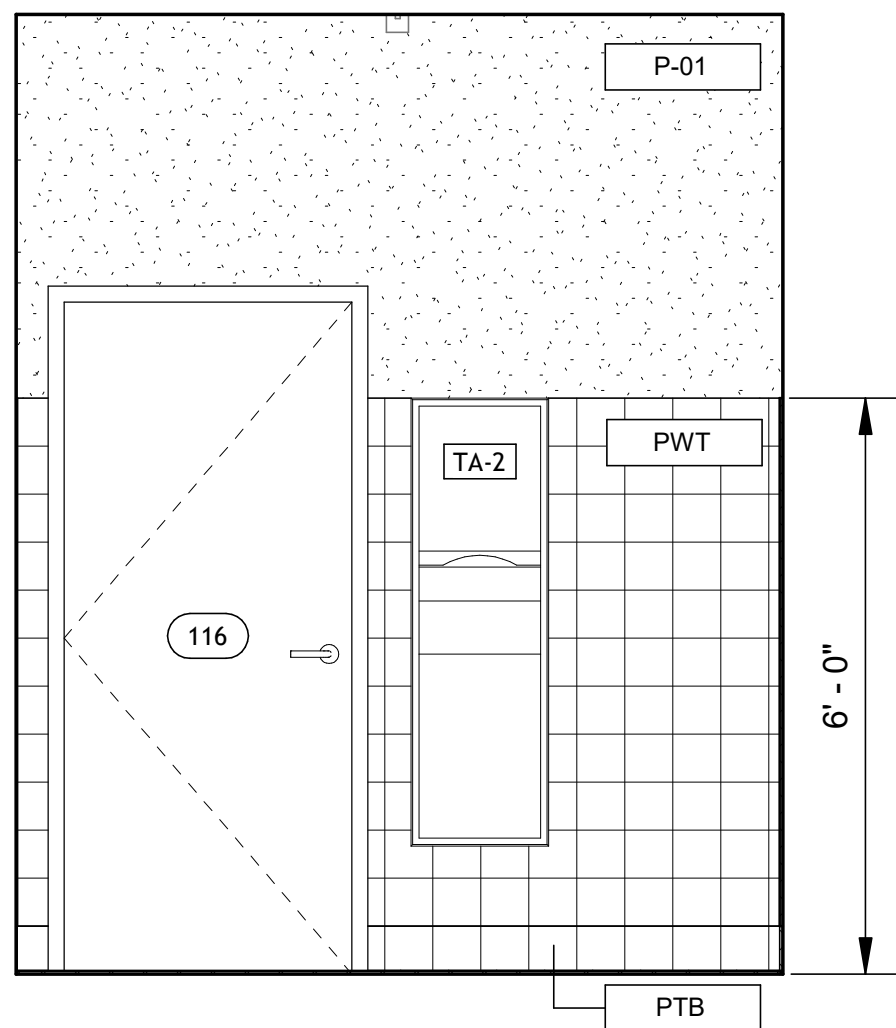
2 RR/SHOWER 118 - EAST
SCALE: 1/2" = 1'-0"



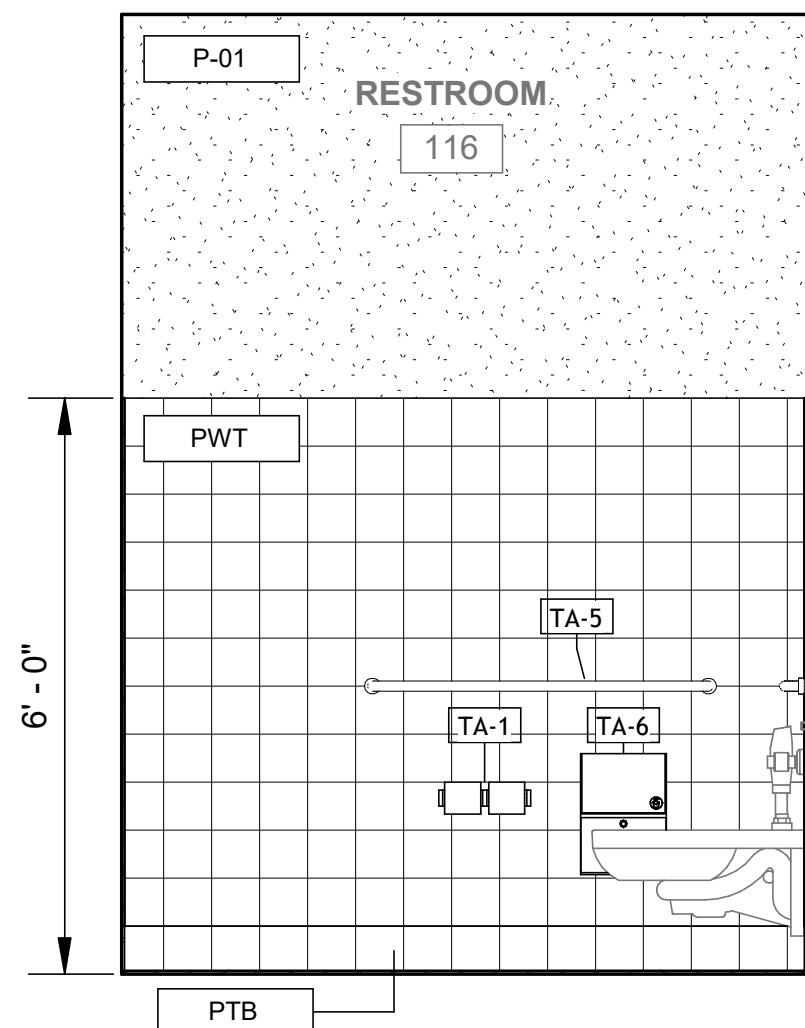
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SCALE: 1/2" = 1'-0"



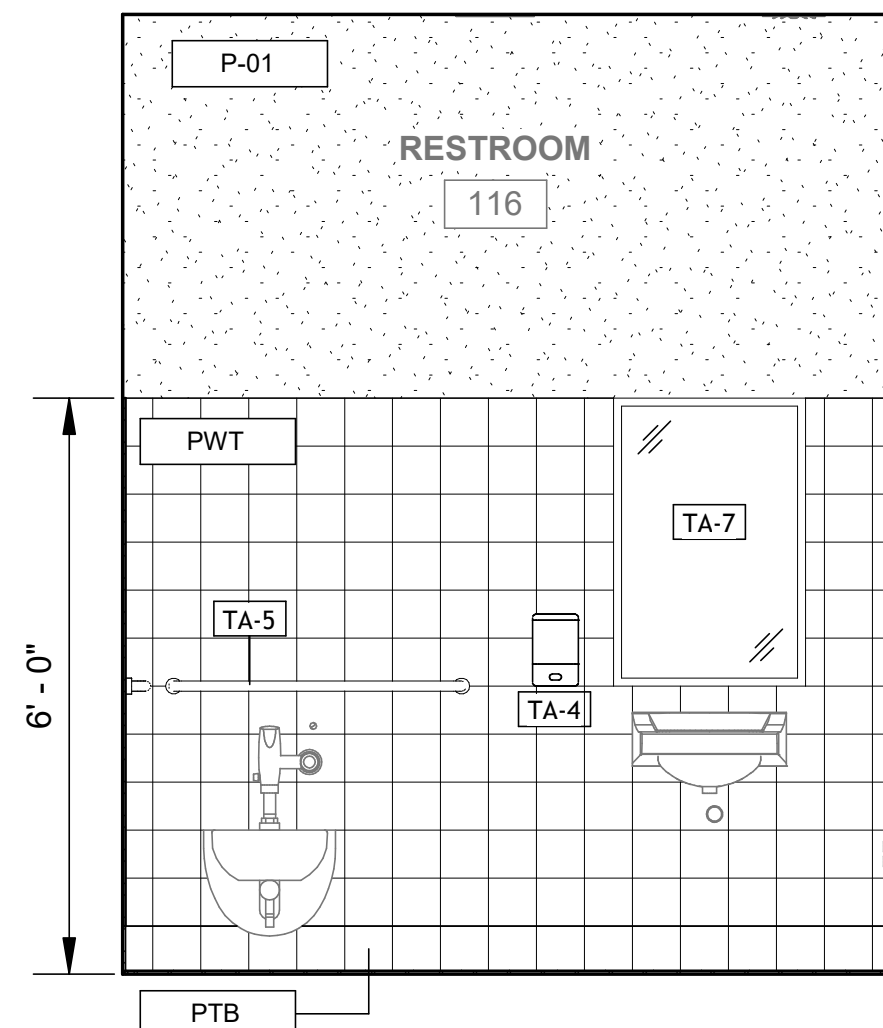
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SCALE: 1/2" = 1'-0"



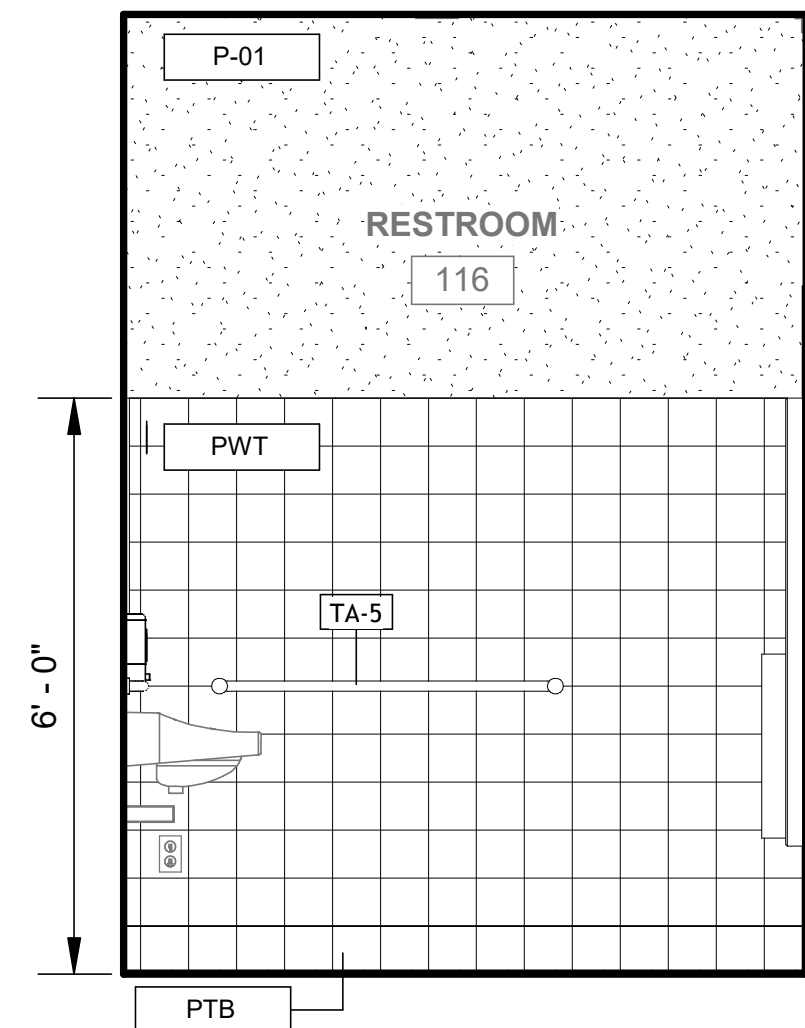
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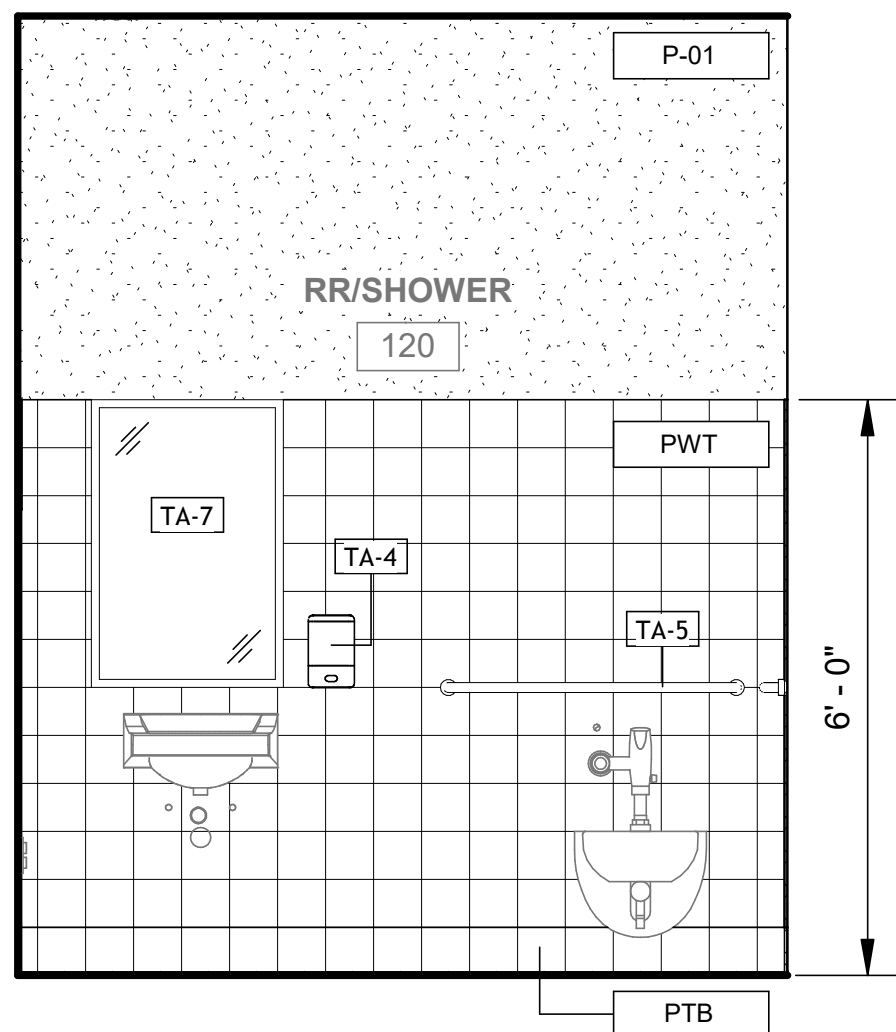
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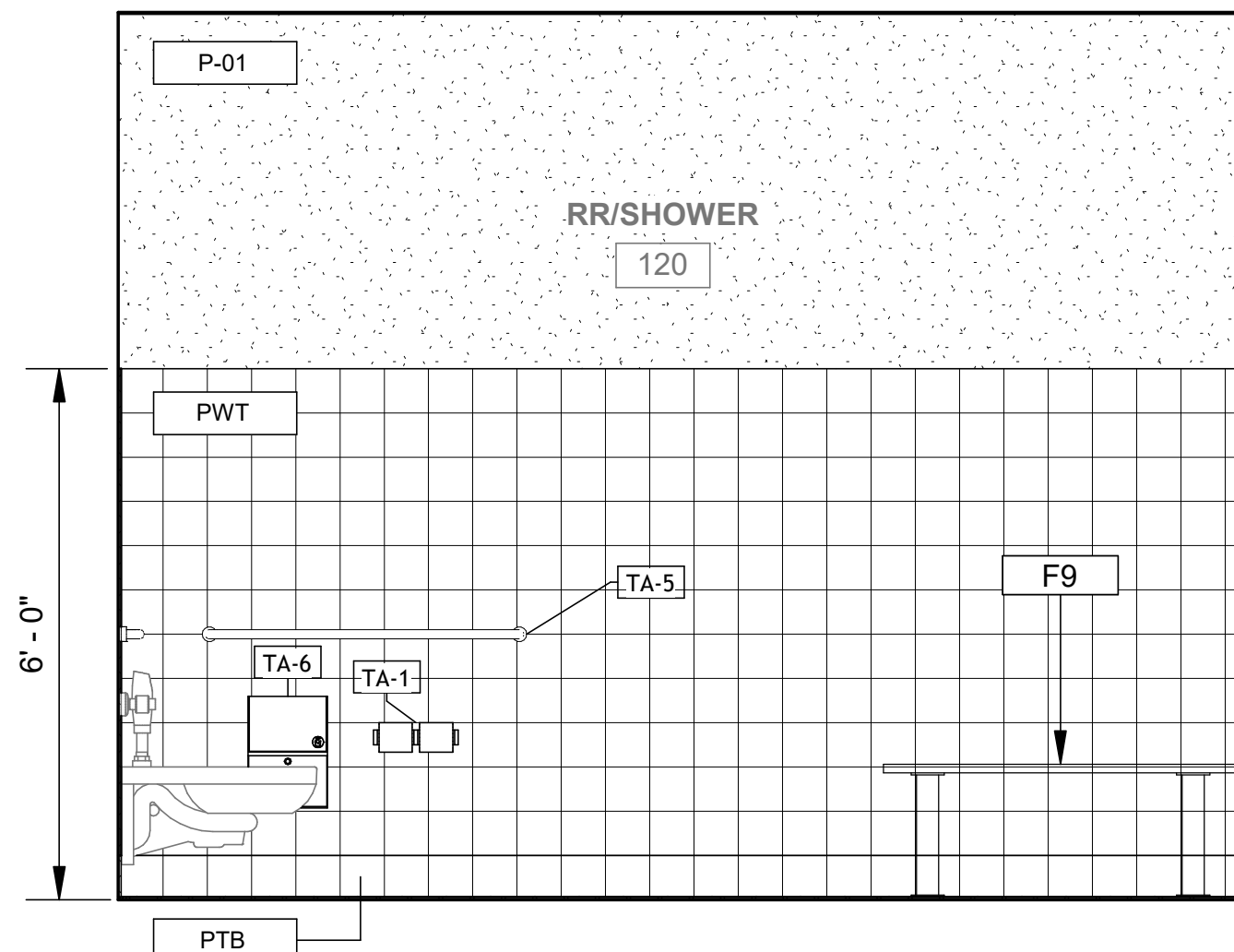
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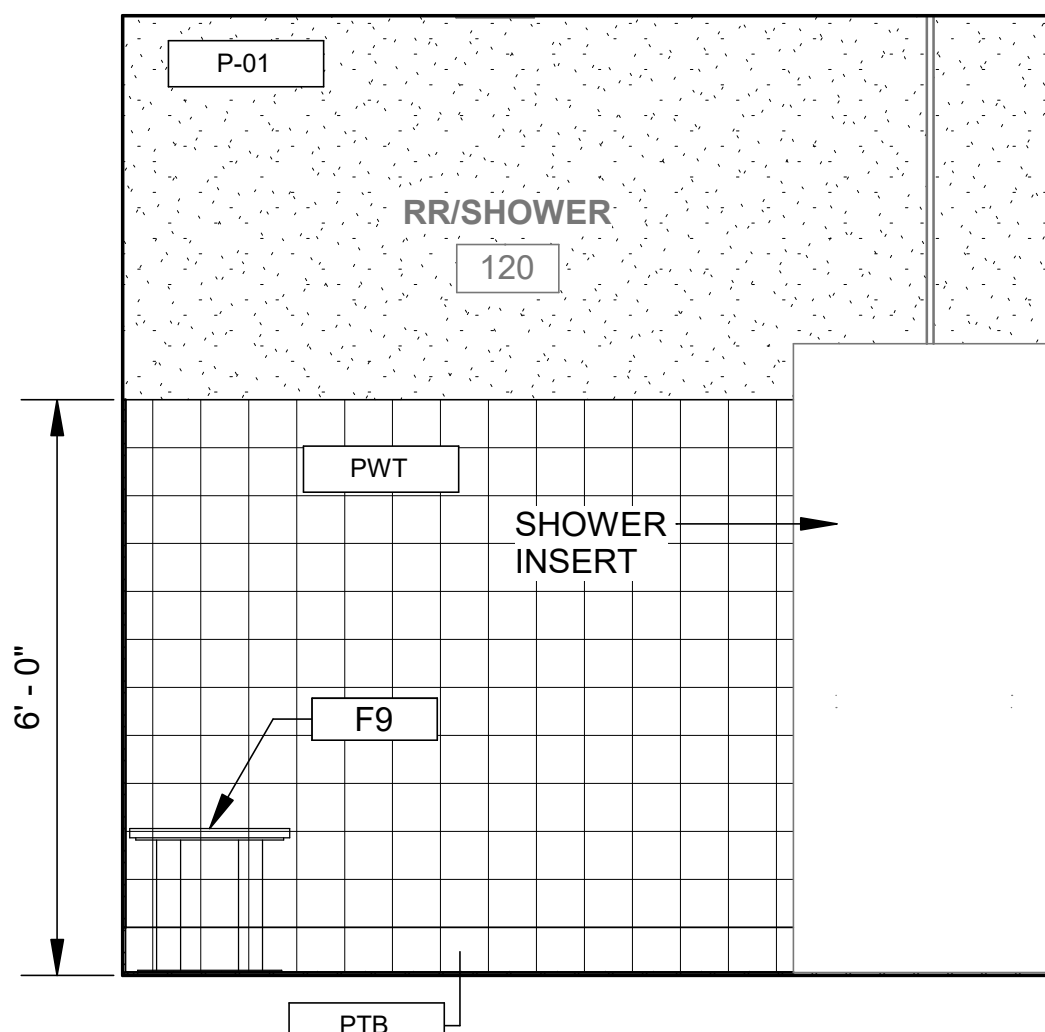
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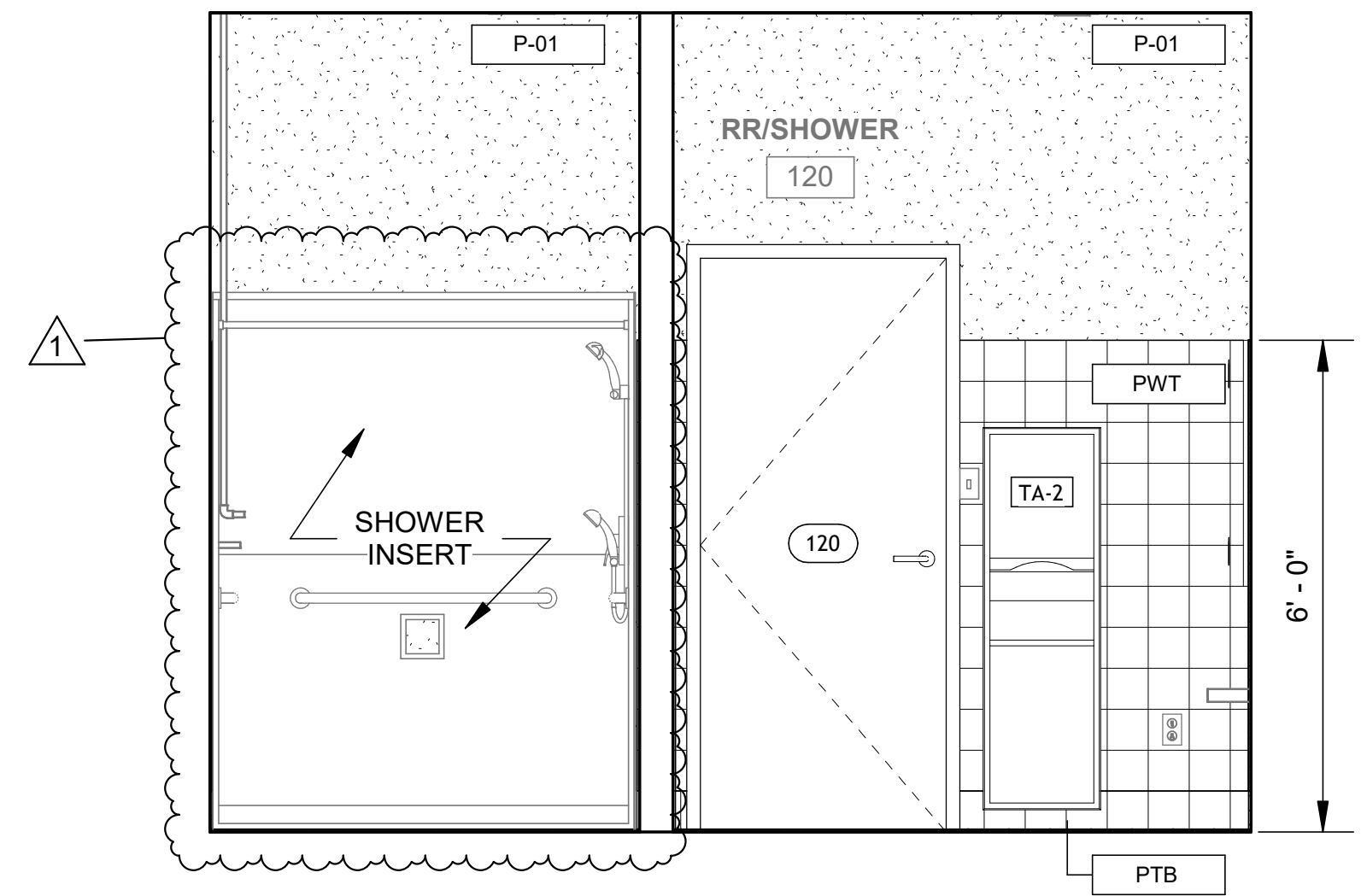
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SCALE: 1/2" = 1'-0"



10 RR/SHOWER 120 - EAST
SCALE: 1/2" = 1'-0"



11 RR/SHOWER 120 - SOUTH
SCALE: 1/2" = 1'-0"



12 RR/SHOWER 120 - WEST
SCALE: 1/2" = 1'-0"



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REGISTRATION NO.
BR-60



BY
CMR

DESCRIPTION
ADDENDUM #5

DATE
09/23/26

REV
1



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS
LIBERTY HILL NORTH FORK WWTP

ADMINISTRATION
BUILDING INTERIOR
ELEVATIONS

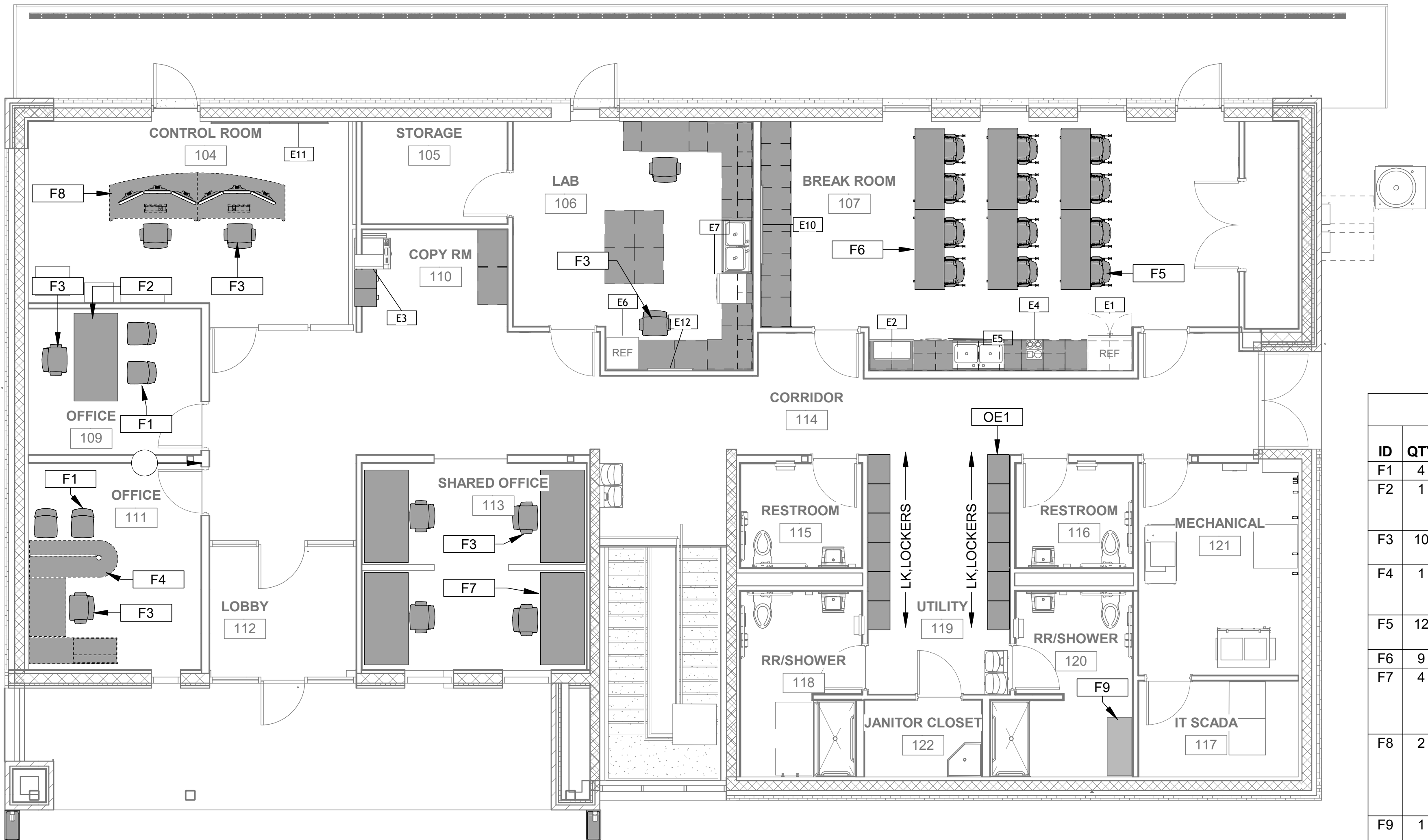
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DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

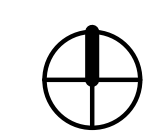
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DRAWING NUMBER
70-A402

SHEET
NUMBER **478**

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Plot Date: 9/21/2026 4:17:40 PM



 1
70-A702 FURNITURE PLAN
SCALE: 3/16" = 1'-0"
PROJECT NORTH

RESPONSIBILITY	QTY	DESCRIPTION	MANUFACTURER	PRODUCT DIMENSIONS	MODEL	COLOR	NOTES & REMARKS
CI	E1	1	REFRIGERATOR (BREAK ROOM)	FRIDGIDAIRE	36"W x 69-7/8"H x 28-1/2" D	FRFC2323AS	STAINLESS STEEL
CI	E2	1	30" x 16" x 18" MICROWAVE	SHARP	21"W X 13"H X 16"D	WMH31017HZ	STAINLESS STEEL
CI	E3	1	POUR OVER COFFEE MACHINE	BUNN	9" W X 17" H X 22" D	CWTF 15-1, PF, 12950.0293 (POUR OVER)	BLACK
CI	E4	1	MULTIFUNCTION COPIER	RICOH	24" W X 32" H X 24" D	COPIER 14254	WHITE
CI	E5	1	DISHWASHER (BREAK ROOM)	GE	26" W X 73" H X 26" D	GDFT226SSLSS	STAINLESS STEEL
CI	E6	1	REFRIGERATOR (LAB)	SUMMIT APPLIANCE	24" W X 33-7/8" H X 23-9/16" D	FFAR10PLUS2	STAINLESS STEEL
CI	E7	1	DISHWASHER (LAB)	BOSCH	24" W X 33-7/8" H X 23-9/16" D	SHXM78Z55N (800 SERIES)	STAINLESS STEEL
CI	E8	1	TOP LOAD WASHER	SPEED QUEEN	75"	LFNE5BSP115TW01	WHITE
CI	E9	1	FRONT LOAD DRYER	SPEED QUEEN	75"	LDEE5BGS173TW01	WHITE
CI	E10	1	TV MONITOR	SAMSUNG	55"	QM75C	BLACK
CI	E11	4	PLANNER SCREEN SYSTEM (VIDEO WALL)	PLANAR	43"	CLARITY MATRIX G3	BLACK
CI	E12	1	TV MONITOR	SAMSUNG	43"	QM43C	BLACK
CI	E-01	1	METAL 5-DRAWER FILE CABINET, 28.5" DEPTH	HIRSH		RENEGADE STORAGE	GRAY FINISH
CI	E-03	1	METAL 5-DRAWER FILE CABINET, 28.5" DEPTH	HIRSH		RENEGADE STORAGE	GRAY FINISH

EQUIPMENT SCHEDULE

RESPONSIBILITY	QTY	DESCRIPTION	MANUFACTURER	PRODUCT DIMENSIONS	MODEL	COLOR	NOTES & REMARKS
CI	E1	1	REFRIGERATOR (BREAK ROOM)	FRIDGIDAIRE	36"W x 69-7/8"H x 28-1/2" D	FRFC2323AS	STAINLESS STEEL
CI	E2	1	30" x 16" x 18" MICROWAVE	SHARP	21"W X 13"H X 16"D	WMH31017HZ	STAINLESS STEEL
CI	E3	1	POUR OVER COFFEE MACHINE	BUNN	9" W X 17" H X 22" D	CWTF 15-1, PF, 12950.0293 (POUR OVER)	BLACK
CI	E4	1	MULTIFUNCTION COPIER	RICOH	24" W X 32" H X 24" D	COPIER 14254	WHITE
CI	E5	1	DISHWASHER (BREAK ROOM)	GE	26" W X 73" H X 26" D	GDFT226SSLSS	STAINLESS STEEL
CI	E6	1	REFRIGERATOR (LAB)	SUMMIT APPLIANCE	24" W X 33-7/8" H X 23-9/16" D	FFAR10PLUS2	STAINLESS STEEL
CI	E7	1	DISHWASHER (LAB)	BOSCH	24" W X 33-7/8" H X 23-9/16" D	SHXM78Z55N (800 SERIES)	STAINLESS STEEL
CI	E8	1	TOP LOAD WASHER	SPEED QUEEN	75"	LFNE5BSP115TW01	WHITE
CI	E9	1	FRONT LOAD DRYER	SPEED QUEEN	75"	LDEE5BGS173TW01	WHITE
CI	E10	1	TV MONITOR	SAMSUNG	55"	QM75C	BLACK
CI	E11	4	PLANNER SCREEN SYSTEM (VIDEO WALL)	PLANAR	55"	CLARITY MATRIX G3	BLACK
CI	E12	1	TV MONITOR	SAMSUNG	43"	QM43C	BLACK
CI	E-01	1	METAL 5-DRAWER FILE CABINET, 28.5" DEPTH	HIRSH		RENEGADE STORAGE	GRAY FINISH
CI	E-03	1	METAL 5-DRAWER FILE CABINET, 28.5" DEPTH	HIRSH		RENEGADE STORAGE	GRAY FINISH

GENERAL NOTES

1. REFER TO GENERAL SHEETS FOR OTHER GENERAL NOTES.
2. REFER TO ALL CIVIL/MEP/STRUCTURAL SHEETS FOR REQUIRED WORK.
3. ALL DIMENSIONS ARE TO FACE OF CMU, GYP BD, OR CENTER LINE OF GRID.
4. INSIDE FACE OF DOOR FRAME JAMBS (HINGE SIDE) ARE LOCATED 6" MIN. FROM ADJACENT PERPENDICULAR WALLS (UNLESS NOTED OTHERWISE).
5. PROVIDE BLOCKING/BRACING FOR ALL WALL MOUNTED, ATTACHED, AND RECESSED EQUIPMENT AND FURNISHINGS AS RECOMMENDED BY MANUFACTURERS.
6. PROVIDE 1'-6" CLEAR AREA AT PULL SIDE OF DOORS.
7. PROVIDE 1'-0" CLEAR AREA AT PUSH SIDE OF DOORS WITH LATCH AND CLOSER.
8. REFER TO 70-A701 FOR FLOOR FINISHES.
9. REFER TO 70-A601 FOR DOOR TYPES & TYPICAL DETAILS.
10. SEE SPECIFICATIONS FOR HARDWARE SETS.
11. REFER TO 70-A501 FOR PARTITION SCHEDULE

FURNITURE SCHEDULE

ID	QTY	DESCRIPTION	MANUFACTURER	FURNISHED BY	NOTES & REMARKS
F1	4	JOYA SIDE CHAIR, ARMLESS	KIMBALL	OF / OI	
F2	1	66" WOOD LAMINATE WORK SURFACE WITH INTEGRATED METAL O-LEG SUPPORTS	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES LOW-PROFILE 66" CRENDENZA WITH OPEN-SHELF "LOFT" STORAGE AND MATTE BLACK HARDWARE
F3	10	JOYA ADJUSTABLE HEIGHT TASK CHAIR	KIMBALL	OF / OI	ADJUSTABLE HEIGHT, ARMS AND LUMBAR, INCLUDES HARD SURFACE CASTERS
F4	1	RENEGADE U-SHAPED LAMINATE WORK SURFACE	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES INTEGRATED STORAGE PEDESTALS, WIRE GROMMETS, AND MATTE BLACK INDUSTRIAL HARDWARE
F5	12	CHADDY CHAIR MOBILE METAL FRAME STACKABLE TRAINING CHAIR	NATIONAL OFFICE FURNITURE	OF / OI	INCLUDES CASTERS AND CUSHION
F6	9	LAMINATE MOBILE FOLDING TABLE	KIMBALL	OF / OI	INCLUDES CASTERS
F7	4	2-1/2" MONOLITHIC PANEL WORKSTATION	KIMBALL	OF / OI	INTERNALLY POWERED, DATA RACEWAYS, FROSTED GLASS GALLERY TOPPERS, TRIPLE MONITOR ARM ARRAY AND INTEGRATED SLAT WALL STORAGE
F8	2	XSEDE PANEL WORKSTATION	KIMBALL	OF / OI	O-LEG METAL FRAMES WITH INTEGRATED POWER RAILS, UNDER-SURFACE CABLE TRAYS, AND VERTICAL CABLE UMBILICALS. INCLUDES PERFORATED METAL MODESTY PANELS AND TRIPLE-MONITOR ARM ARRAYS.
F9	1	WOOD ADA COMPLIANT BENCH	SALSBURY INDUSTRIES	OF / OI	
F10	12	VANGUARD 1-TIER 2-DOOR EXECUTIVE LOCKER, 24"W x 18"D x 78"H	PENCO	OF / OI	

PLUMBING FIXTURE SCHEDULE

ID	QTY	DESCRIPTION	MANUFACTURER	MODEL	NOTES & REMARKS
PL-01	4	CHESAPEAKE WALL-MOUNTED LAVATORY W/ 8" CENTER	KOHLER	K-1724	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-03	4	WALL-MOUNT FLUSH VALVE TOILET	ZURN INDUSTRIES, LLC.	Z5615.258	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-05	2	DROP-IN DOUBLE BASIN KITCHEN SINK	ELKAY	CR43224	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION
PL-06	1	CORNER MOP SINK	KOHLER	K-6710	RE: PLUMBING SHEETS FOR ADDITIONAL INFORMATION



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REGISTRATION NO.
BR-60

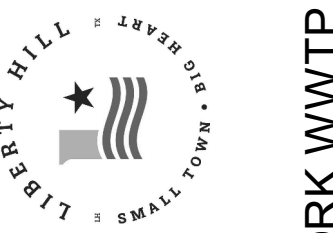


BY
CMR

DESCRIPTION
ADDENDUM #5

DATE
09/23/26

REV
1



CITY OF LIBERTY HILL
LIBERTY HILL, TEXAS
LIBERTY HILL NORTH FORK WWTP

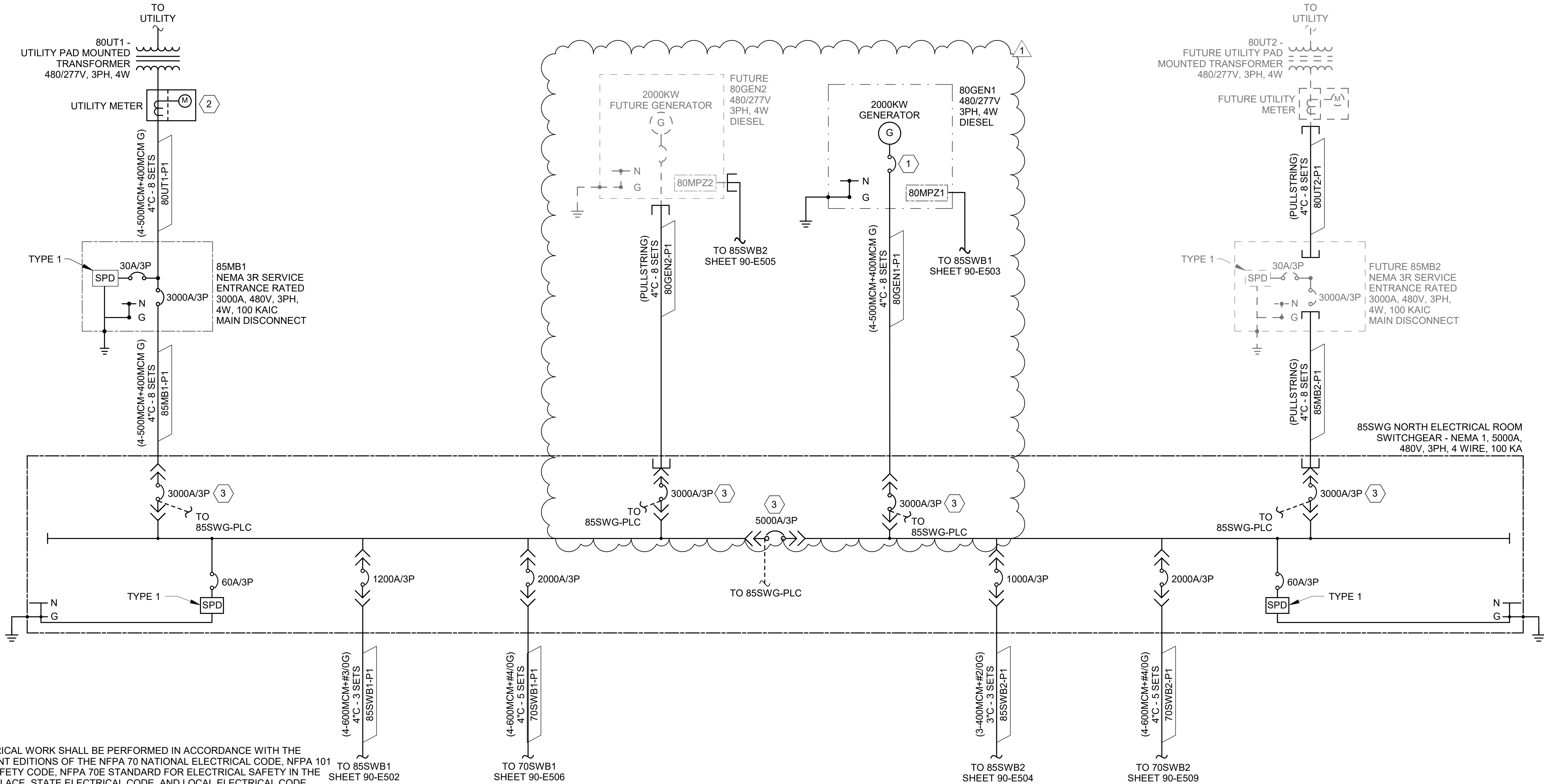
ADMINISTRATION
BUILDING FURNITURE
PLAN

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: CMR
DRAWN BY: RAG
CHECKED BY: CMR

BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
70-A702
SHEET NUMBER
501

Revit File: AutodesK Docs\\W07-2401219 - Liberty Hill North Fork WWTP Design\\W07-2401219_90_ELECTRICAL.rvt
Plot Date: 9/22/2026 10:32:01 AM



NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE NFPA 70 NATIONAL ELECTRICAL CODE, NFPA 101 LIFE SAFETY CODE, NFPA 70E STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE, STATE ELECTRICAL CODE, AND LOCAL ELECTRICAL CODE.
- COORDINATE ALL ELECTRICAL WORK AND PLANNED POWER OUTAGES WITH OWNER.
- THE CONTRACTOR SHALL MAKE ELECTRICAL CONNECTIONS TO EVERYTHING FURNISHED OR INSTALLED BY THESE DRAWINGS AND SPECIFICATIONS, WHETHER INDICATED OR NOT ON THE ELECTRICAL DRAWINGS.
- PROVIDE LUGS AS REQUIRED FOR CONDUCTOR SIZING AND QUANTITIES.
- CONTRACTOR SHALL VERIFY ALL MOTOR SIZES WITH PROVIDED EQUIPMENT AND PROVIDE APPROPRIATELY SIZED OVERCURRENT PROTECTIVE DEVICES, STARTERS, AND OVERLOADS AS REQUIRED.

KEYNOTES

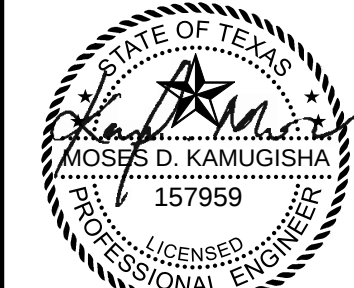
- | | |
|---|--|
| 1 | VERIFY CIRCUIT BREAKER REQUIREMENTS WITH SUPPLIED EQUIPMENT. GENERATOR MANUFACTURER SHALL SIZE BREAKER. |
| 2 | METER SOCKET FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. METER AND CT ENCLOSURE FURNISHED AND INSTALLED BY ELECTRICAL UTILITY. VERIFY SUPPLY VOLTAGE/PHASE WITH UTILITY PRIOR TO CONSTRUCTION. |
| 3 | CONNECTION TO EXTERNAL SWITCHGEAR PLC FOR BREAKER COORDINATION AND AUTOMATIC SWITCHING. CONTRACTOR TO COORDINATE WITH SWITCHGEAR MANUFACTURER FOR CONNECTION TO PLC. |

1 85SWG ONE LINE DIAGRAM
SCALE: NOT TO SCALE



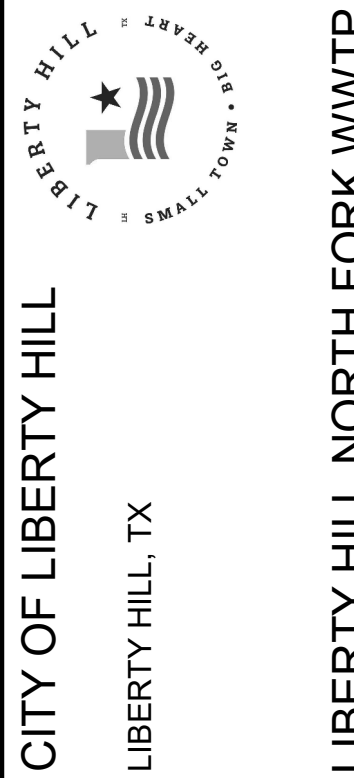
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REGISTRATION NO.
F-5713



Digitally Signed 09/23/2026

REV	DATE	DESCRIPTION	BY
1	09/23/26	ADDENDUM NO. 5	MDK



85SWG ONE LINE
DIAGRAM

JOB NO.: W07-2401219
DATE: AUG. 2026
DESIGNED BY: MDK
DRAWN BY: KL
CHECKED BY: BSC

BAR IS ONE INCH ON
ORIGINAL DRAWING 1"
IF NOT ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY.

DRAWING NUMBER
90-E501
SHEET
NUMBER **598**