



ADDENDUM NO. 4

to

**SPECIFICATIONS, CONTRACT DOCUMENTS
AND DRAWINGS**

for

**City of Lovington WWTF Improvements Project
(Aeration Improvements)**

Bid Package
Published 06/09/2026

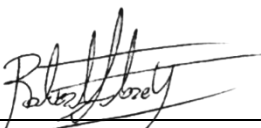
Owner:

City of Lovington
214 S. Love
Lovington, NM 88260

Engineer of Record:

Souder, Miller & Associates
3500 Sedona Hills Pkwy
Las Cruce, NM 88011
(575) 647-0799

This Addendum constitutes clarifications, changes, additions, modifications and/or deletions to the Contract Documents. All provisions of the Contract Documents not affected by this Addendum shall remain in full force. This Addendum is hereby made a part of the Contract Documents to the same extent as those provisions contained in the original Contract Documents and previous Addenda, if any. Receipt of this Addendum shall be acknowledged on the Bid Form.



Robert Storey, P.E.

7/15/2026

Date



TO ALL HOLDERS OF CONTRACT DOCUMENTS FOR:

**City of Lovington WWTF Improvements Project
(Aeration Improvements)**

ADDENDUM NO. 4

July 15, 2026

This Addendum shall be incorporated into the Contract Documents for the above referenced project.

Clarifications

- **The bid opening date has been extended to July 30th, 2026.**
- The technical specification 33 32 20 Temporary Bypass Pumping System is included in the project manual to be used as needed, but no bid item will be included for bypass pumping. If Bypass Pumping is needed during the project, this will be added during construction by Change Order.
- The information for diffusers for the SBR basins can be found in technical specification 40 05 24 Aeration Steel Pipe Exposed section 2.8.
- All plug valves used are to be for compressed air service as per technical specification 40 05 62 section 2.1.
- Contractor will need to supply new inlet and filter assemblies.

Project Manual

- Technical specification 40 05 24 Aeration Steel Pipe Exposed has updated to clarify preference for flanged fittings.
- Technical specification 40 05 24 has been updated to remove language concerning cement lining.
- Technical specification 40 05 24 has been updated to correct blower HP required to 40 HP.
- Contract document C-410 Bid form for Construction Contract has been adjusted to provide language to further clarify requirements for inlet and filter assemblies.
- Contract document C-410 Bid form for Construction Contract has been revised to include the assembly of piping and anchorage in bid item A2-2.

Construction Drawings

- Sheet C-1 has been revised to change the MJ elbows to Flanged elbows.
- Sheets D-1 and D-2 have been revised to remove the item of a new large blower.
- Sheets D-1 and D-2 have been revised to include an additional note pertaining to inlet and filter assemblies.



Attachments

1. Contract Document C-410
2. Technical Specification 40 05 24
3. Sheet C-1
4. Sheet D-1
5. Sheet D-2

BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

**CITY OF LOVINGTON
115 S MAIN ST
LOVINGTON, NM 88260**

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. List of Proposed Subcontractors;
- C. Evidence of authority to do business in the state of the Project; or a written covenant to obtain such authority within the time for acceptance of Bids;
- D. Contractor's license number as evidence of Bidder's State Contractor's License or a covenant by Bidder to obtain said license within the time for acceptance of Bids;
- E. Required Bidder Qualification Statement with supporting data;
- F. Copy of Registration with the Labor Relations Division, New Mexico Department of Workforce Solutions, Public Works Bureau;
- G. Copy of a valid resident business certificate or valid resident contractor certificate issued by the taxation and revenue department of the State of New Mexico (if applicable);
- H. Copy of a valid resident veteran business certificate or valid resident veteran contractor certificate issued by the taxation and revenue department of the State of New Mexico (if applicable);
- I. Campaign Contribution Disclosure Form;

ARTICLE 3—BASIS OF BID—UNIT PRICES

3.01 *Unit Price Bids*

- A. Bidder will perform the following Work at the indicated unit prices:

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
Base Bid					
1	Mobilization (75%)	LS	1		
2	Demobilization (25% with the submittal of as builts)	LS	1		
3	Material Testing Allowance	ALLOW	1	\$ 7,000.00	\$ 7,000.00
4	Pre-Construction and Post-Construction Video Documentation	LS	1		
5	Electrical Extension Allowance	ALLOW	1	\$ 5,000.00	\$ 5,000.00
6	Furnish and Install 8-inch Steel Airlines (incl. all labor, material, fittings, and all related appurtenances needed for a complete installation), CIP	LF	125		
7	Furnish and Install 14-inch Steel Airlines (incl. all labor, material, fittings, and all related appurtenances needed for a complete installation), CIP	LF	167		
8	Relocate Existing 125 Hp Air Pumps (incl. all labor, material, equipment, fittings, new inlet and filter assemblies, and all related appurtenances needed for a complete installation), CIP	EA	2		
9	Relocate Existing 40 Hp Air Pumps (incl. all labor, material, equipment, fittings, new inlet and filter assemblies, and all related appurtenances needed for a complete installation), CIP	EA	2		
10	Furnish and Install 40 Hp Air Pumps (incl. all labor, material, pumps, pressure gauge, associated piping, valves, plumbing connections, control panel, new inlet and filter assemblies, and all related appurtenances needed for a complete installation), CIP	EA	2		
11	Furnish and Install InsertaValve (incl. all labor, material, valve, valve box, lid, site restoration, and all related appurtenances needed for a complete installation), CIP	EA	1		
12	Furnish and Install 6-inch Plug Valves, (incl. all labor, material, plug valve, valve box, and all related appurtenances needed for a complete installation), CIP	EA	4		

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
13	Furnish and Install 12-inch Plug Valves, (incl. all labor, material, plug valve, valve box, and all related appurtenances needed for a complete installation), CIP	EA	4		
14	Furnish and Install Electrical and Controls for Blower Building, (incl. all labor, material, and all related appurtenances needed for a complete installation), CIP	LS	1		
15	Prefabricated Building with Appurtenances, (incl. all labor, material, air conditioning, concrete foundation, and all related appurtenances needed for a complete installation), CIP	LS	1		
16	Tie Into Existing Piping (incl. all labor, material, equipment, and all related appurtenances needed for a complete installation), CIP	EA	4		
Total of All Unit Price Bid Items					\$

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
Additive Alternative No. 1: Replace Coating for Sludge Digester					
A1-1	Replace liner for Sludge Digesters (incl. all labor, material, equipment, and all related appurtenances needed for complete installation), CIP	SF	7,697		
Total of All Unit Price Bid Items					\$

Item No.	Description	Unit	Estimated Quantity	Bid Unit Price	Bid Amount
Additive Alternative No. 2: Replace Liner for SBR Basin					
A2-1	Replace liner for SBR Aeration Basins (incl. all labor, material, equipment, and all related appurtenances needed for complete installation), CIP	SF	26,660		
A2-2	Furnish and Install diffusers for the SBR Basins, (incl. all labor, material, piping, anchorage assembly, and all related appurtenances needed for a complete installation), CIP	EA	2		
Total of All Unit Price Bid Items					\$

B. Bidder acknowledges that:

- Each Bid Unit Price includes an amount considered by Bidder to be adequate to cover Contractor's overhead and profit for each separately identified item, and

2. Estimate quantities are not guaranteed and are solely for the purpose of comparison of Bids, and final payment for all Unit Price Work will be based on actual quantities, determined as provided in the Contract Documents.

ARTICLE 4—TIME OF COMPLETION

- 4.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.
- 4.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 5—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD, INSTRUCTIONS, AND RECEIPT OF ADDENDA

5.01 *Bid Acceptance Period*

- A. This Bid will remain subject to acceptance for 60 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

5.02 *Instructions to Bidders*

- A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

5.03 *Receipt of Addenda*

- A. Bidder hereby acknowledges receipt of the following Addenda:

Addendum Number	Addendum Date

ARTICLE 6—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

6.01 *Bidder's Representations*

- A. In submitting this Bid, Bidder represents the following:
 1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
 2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work.
 4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.
6. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.
7. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
8. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
9. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
10. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

6.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.
2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.
3. Bidder has not solicited or induced any individual or entity to refrain from bidding.
4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:
 - a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.
 - b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

- c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.
- d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

(typed or printed name of organization)

By:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest:

(individual's signature)

Name:

(typed or printed)

Title:

(typed or printed)

Date:

(typed or printed)

Address for giving notices:

Bidder's Contact:

Name:

(typed or printed)

Title:

(typed or printed)

Phone:

Email:

Address:

Bidder's Contractor License No.: (if applicable)

New Mexico Department of Workforce Solutions Registration No. _____

Is Bidder eligible for Resident Contractor Preference or Resident Veteran Contractor Preference as defined in the Instructions to Bidders?

Yes _____ Circle one: Resident Contractor Resident Veteran Contractor
No _____ Preference Preference

If yes, attach documentation of Resident Contractor or Resident Veteran Contractor eligibility.

SECTION 40 05 24

AERATION STEEL PIPING: EXPOSED

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Steel Piping, Joints, Fittings, and Fabricated Steel Piping Fittings and Specials.
 - 2. Pressure Gauges.
 - 3. Air Blower
 - 4. Air Blower Motor
 - 5. SBR Basin Diffusers

1.2 REFERENCES

- A. American Society of Mechanical Engineers (ASME):
 - 1. B16.1 - Gray Iron Pipe Flanges and Flanged Fittings: Classes 25, 125, and 250.
 - 2. B16.3 - Malleable-Iron Threaded Fittings: Classes 150 and 300.
 - 3. B16.5 - Pipe Flanges and Flanged Fittings.
 - 4. B16.9 - Factory-Made Wrought Buttwelding Fittings.
- B. American Water Works Association (AWWA):
 - 1. C200 - Steel Water Pipe 6 Inches and Larger.
 - 2. C206 - Field Welding of Steel Water Pipe.
 - 3. C207 - Standard for Steel Pipe Flanges for Waterworks Service-Sizes 4 inches Through 144 inches.
 - 4. C208 - Standard for Dimensions for Fabricated Steel Water Pipe Fittings.
 - 5. C210 - Liquid-Epoxy Coatings and Linings for Steel Water Pipe and Fittings.
 - 6. C222 - Polyurethane Coatings and Linings for Steel Water Pipe and Fittings.
 - 7. M11 - Steel Pipe: A Guide for Design and Installation.
- C. ASTM International (ASTM):
 - 1. A47 - Standard Specification for Ferritic Malleable Iron Casting.
 - 2. A53 - Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
 - 3. A105 - Standard Specification for Carbon Steel Forgings for Piping Applications.
 - 4. A106 - Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service.
 - 5. A153 - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware.
 - 6. A536 - Standard Specification for Ductile Iron Castings.
- D. Society for Protective Coatings (SSPC):
 - 1. SP 5 - White Metal Blast Cleaning.
 - 2. SP 10 - Near White Wet Blast.
 - 3. SP 11 - Bare Metal Power Tool Cleaning.

1.3 SUBMITTALS

- A. Section 01 00 00 - Submittal Procedures: Submittal procedures.
- B. Product Data:
 - 1. Piping: Submit data on pipe materials, fittings, and accessories. Submit manufacturer's catalog information.
 - 2. Valves: Submit manufacturers catalog information with valve data and ratings for each service.
 - 3. Pumps: Submit pump type, capacity, certified pump curves showing pump performance characteristics with pump and system operating point plotted. Include NPSH curve when applicable. Include electrical characteristics and connection requirements.
- C. Manufacturer's Installation Instructions: Submit installation instructions for pumps, valves and accessories.
- D. Manufacturer's Certificate: Certify products meet or exceed specified requirements.
- E. Manufacturer's qualifications.
 - 1. Manufacturer qualifications and list of projects using the specified material: 5 years minimum.
- F. Manufacturer's Quality Assurance Manual:
 - 1. Submit manufacturer's coating and lining application quality assurance manual to Engineer prior to beginning coating application.
 - a. Strict conformance to the requirements of the manual will be required.
 - b. Deviation from the requirements of the manual will be grounds for the Engineer to reject the applied coating.
- G. Shop drawings:
 - 1. Details of fittings and specials showing thickness and dimensions of plates.
 - 2. Details of welds and materials.
- H. Calculations:
 - 1. Submit calculations prepared and stamped by a professional engineer licensed in the State of New Mexico. The calculations shall be based on the requirements defined in this Section.
 - 2. Design calculations: Wall thicknesses for external loading, special loading, internal pressure, and other necessary design cases.
- I. Mill certificates.
- J. Test reports: Rubber gaskets.

PART 2 PRODUCTS

2.1 DESIGN AND PERFORMANCE CRITERIA

A. Design requirements:

1. Design criteria for pipe and pipe fittings: In accordance with AWWA M11 with the following modifications:
 - a. Wall thickness: Work Results for General Piping Pipe Schedule, and the following thickness:
 - 1) For pipes smaller than 26 inches in diameter: Minimum 1/4 inch.
 - b. Inside diameter of unlined pipe: Nominal.
 - c. Inside diameter of lined pipe: As measured from face to face of liner, but not less than nominal.
 - d. Deflection of underground pipe inside diameter: Maximum 2 percent under trench load of H-20 live load in accordance with AASHTO specifications.
 - e. Working stress of steel: Maximum 50 percent of yield stress.
 - f. Contactor shall develop and submit calculations to determine the steel and fitting wall thickness and design requirements according to the requirements of this specification

2.2 UNIONS AND FLANGES

A. Flanges for Pipe 2-1/2 inches and Larger:

1. Ferrous Piping: Class 150, forged steel, slip-on flanges.

2.3 MATERIALS

A. Stainless Steel Pipe: AWWA C220, Stainless Steel Pipe, 1/2" and Larger, ASTM A312/A312M, Schedule 40S, threaded

1. Material: 304
2. Fittings, Flanged: AWWA C228, Stainless Steel Pipe Flange Joints for Water Service, sizes 2 inch through 72 inch

B. Steel pipe fittings:

1. Flanged fittings:
 - a. Type for 24-inch and smaller pipe: ASME B16.5, steel, 150 pounds, stainless in accordance with ASME A182.
 - b. Companion flanges for larger than 4 inch to and including 12-inch pipe: ASME B16.5, slip-on or welding neck type.
 - c. Machine flanges or provide tapered filler for changes in grade or to slope lines for drainage.
 - d. Flange bolts: Per ASTM 153
 - e. Gaskets: Sized according to ASME B16.21

C. AWWA C200 steel pipe and fittings design and fabrication:

1. General:

- a. Applicable standards: AWWA C200 steel pipe shall conform to the standards specified in General of this Section.
- b. Identification marks: Provide identification marks in accordance with AWWA C200. These marks shall be stenciled or otherwise shown at the top of the piping items exterior, including the following information:
 - 1) Name or trademark of the manufacturer.
 - 2) Date of manufacture of the item.
 - 3) Internal diameter in inches.
 - 4) Number of the item, sequential from initial to end station.
- c. Diameter designation: The pipe diameter specified in the Specifications and indicated on the Drawings shall be the clear inside diameter after application.

2.4 COATING AND LINING

- A. Manufacturers:
 - 1. Carpenter & Paterson Inc.
 - 2. Creative Systems Inc.
 - 3. Flex-Weld, Inc.
 - 4. Glope Pipe Hanger Products Inc.
 - 5. Michigan Hanger Co.
 - 6. Superior Valve Co.
 - 7. Substitutions: Section 01 00 00 - Product Requirements.
- B. Hangers for Pipe Sizes 1/2 to 1-1/2 inch: Malleable iron Carbon steel, adjustable swivel, split ring.
- C. Hangers for Pipe Sizes 2 inches and Larger: Carbon steel, adjustable, clevis.
- D. Multiple or Trapeze Hangers: Steel channels with welded supports or spacers and hanger rods.
- E. Wall Support for Pipe Sizes 3 inches and Smaller: Cast iron hooks.
- F. Wall Support for Pipe Sizes 4 inches and Larger: Welded steel bracket and wrought steel clamps.
- G. Vertical Support: Steel riser clamp.
- H. Floor Support for Pipe: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
- I. Copper Pipe Support: Carbon steel ring, adjustable, copper plate.

2.5 AIR PRESSURE GAUGES

- A. Manufacturers:
 - 1. Krohne.
 - 2. WIKA.

3. Pentair AES.
 4. Approved equal.
- B. Must conform to ANSI B40.1 and have the following characteristics:
1. Liquid filled, altitude/psi process gauge.
 2. Stainless steel isolation ball valve.
 3. Accuracy: 0.5% of full scale.
 4. Wetted materials: 316 SS.
 5. Case material: Polypropylene; safety glass window.
 6. Connection: 1/4" NPT(M), bottom.
 7. Dial Size: 4-1/2".
 8. Mounting: Stem or surface.
 9. Range: 0-160 psi, 0-370 feet.

2.6 BLOWER

- A. Blower consist of horizontal multistage centrifugal blower for aeration services.
1. Manufacturers
 - a. Gardner Denver: Model #4206
 2. Gardner Denver 4206 multistage centrifugal blower, suitable for continuous-duty wastewater aeration service at the specified flow and pressure, complete with matching base and coupling for a 40 HP, 3600 RPM, 256T frame motor.

2.7 BLOWER MOTOR

- A. Motor base bid consists of horizontal, premium efficiency, 40 HP motor for blower drive.
1. Manufacturers:
 - a. Toshiba
 2. Toshiba three-phase induction motor, 40 HP, 256T frame, 3600 RPM, TEFC enclosure, 230/460V, 60Hz, NEMA Premium efficiency, 1.15 service factor, suitable for blower drive service.

2.8 SBR BASIN DIFUSERS

- A. Fine Bubble Aeration System with EPDN Standard Membrane Disc Diffusers for installation in the following applications:
1. SBR Basin

Zone Name	Diffusers per Grid	Aeration Grids per Zone	Diffusers per Zone	Drop Pipe / Manifold Size, inches
Pre-React Zone	259	1	259	4
Main React Zone	736	2	1,472	8
Total for SBR Basin		3	1,731	

2. Each aeration grid will include:

Grid	Diameter, inches	Thickness, Material	Connections
Power Drop Pipe	---	SCH 40, PVC	- Clam coupling to existing drop pipe - Plain end to drop pipe - Plain end to manifold
Manifold	---	SCH 40, PVC	- Factory welded PVC joint to lower drop pipe - Factory welded PVC saddles to air distributors
Air Distributors	4	SDR 33.5, PVC	- Factory welded PVC union joints to manifold and air distributors - Factory welded diffuser holders (cereal bowl type)

3. In addition to the piping listed above, each grid will include:
 - a. Required number of fine bubble diffusers and separate base plates for installation into factory welded diffuser holders.
 - b. Required PVC pipe joint connections and removable end caps.
 - c. Required 304 stainless steel piping supports with vertical supports, clamps, adjusting mechanism and anchor bolts (designed for installation in 4000 PSI Concrete).
 - d. Required 304 stainless steel bolts, nuts, and gaskets for field assembly.
 - e. Moisture purge system, including ¾" solenoid valves.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Joints:
 1. Steel pipe joints shall be screwed, welded, flanged, grooved, or made with flexible joints.
 2. Provide unions, flexible couplings, flanged joints, and other types of joints or means necessary to allow ready assembly and disassembly of the piping.
 3. Unless otherwise indicated on the Drawings, pipe joints shall be as follows:
 - a. Pipe 2 inches to 4 inches in nominal diameter shall have screwed joints, flanged joints, welded joints, or joints made with flexible couplings.
 - b. Pipe larger than 4 inches in nominal diameter shall have flanged joints, welded joints, or joints made with flexible couplings.
- B. Screwed joints:
 1. Perform threading with clean, sharp dies.
 - a. Wavy, rough, or otherwise defective pipe threads are not acceptable.
 2. Make screwed joints tight and clean with an application of Teflon™ tape or approved paste compound applied to the male threads only, except as follows:

- a. Make up liquid and dry chlorine lines, and liquefied petroleum gas lines, with litharge and glycerin.
- 3. Provide railroad type unions with bronze-to-iron seat, galvanized where used with galvanized pipe.
 - a. Flanged joints may be used instead of unions.
- C. Flanged joints:
 - 1. In flanged joints, flanges shall come together at the proper orientation with no air gaps between the flanges after the gaskets are in place.
 - 2. Attach slip-on flanges to pipe by 2 fillet welds, in accordance with AWWA C207.
 - 3. Secure welding neck flanges with full penetration butt welds without backing rings.
 - a. After welding in place, the faces of flanges shall be perpendicular to the axis of the pipe, or, in the case of fittings, at the proper angle to each other, and bolt holes shall be in proper alignment.
- D. Welded joints:
 - 1. Welded joints shall be electric welded in accordance with AWWA C206.
 - 2. Welders shall be qualified pursuant to the provisions of AWWA C206.
 - a. Welders' testing shall be at the Contractor's expense, including cost of test nipples, welding rods, and equipment.
 - 3. Do not weld galvanized pipe.

3.2 DEFECTS IN COATINGS EXCEPT CEMENT MORTAR

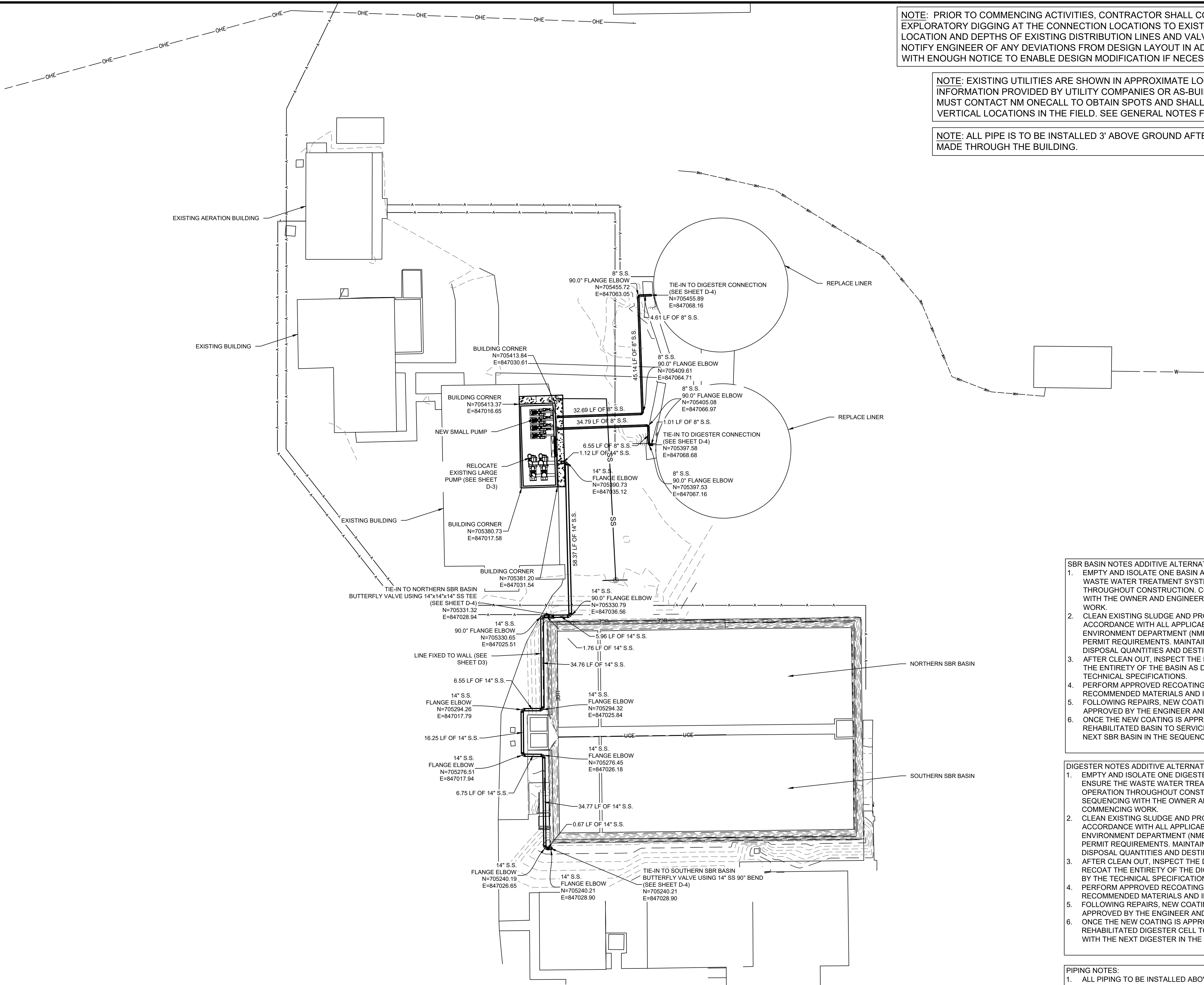
- A. Engineer will identify defective coating to be field repaired in accordance with the applicable AWWA standard.
 - 1. Pipe joints exceeding the following defect maximum will be rejected.
 - a. Minor defects:
 - 1) No more than 1.5 per 100 square feet of surface area.
 - 2) 2 or more minor repairs within an 8-inches diameter circle will be considered a single repair.
 - 3) Repairs for adhesion testing will not be included in the total number of repairs.
 - 4) Repair in accordance with manufacturer's requirements.
 - b. Major defects:
 - 1) No more than 3 major repairs on each pipe joint.
 - 2) No more than 30 percent repairs on the pipe surface area with defects.
 - 2. Minor repairs:
 - a. Repairs less than 8-inches in the greatest dimension.
 - b. Repair in accordance with manufacturer's requirements.
 - 3. Major repairs:
 - a. Repairs that exceed 8-inches in the greatest dimension.
 - b. Repair in accordance with manufacturer's requirements.

3.3 FIELD QUALITY CONTROL

- A. Field test fabricated steel manifolds with the pipe to which they connect.

- B. Weld testing:
 - 1. Liquid penetrant testing:
 - a. As soon as possible after welding of pipeline joints, all fillet welds shall be tested by the liquid penetrant inspection procedure in accordance with ASTM E165 under Method "B" and "Leak Testing".
 - b. Chip out defects, rework, and retest.
 - 1) Upon retest, the repaired area shall show no leaks or other defects

END OF SECTION



NOTE: PRIOR TO COMMENCING ACTIVITIES, CONTRACTOR SHALL COMPLETE NON DESTRUCTIVE EXPLORATORY DIGGING AT THE CONNECTION LOCATIONS TO EXISTING LINES AND DETERMINE LOCATION AND DEPTHS OF EXISTING DISTRIBUTION LINES AND VALVES. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS FROM DESIGN LAYOUT IN ADVANCE OF CONSTRUCTION WITH ENOUGH NOTICE TO ENABLE DESIGN MODIFICATION IF NECESSARY.

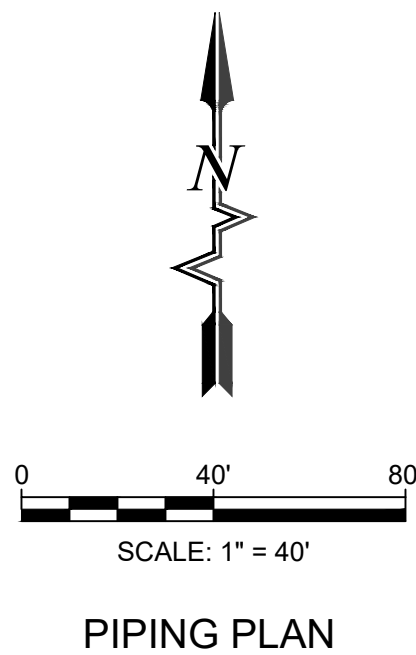
NOTE: EXISTING UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY, BASED ON INFORMATION PROVIDED BY UTILITY COMPANIES OR AS-BUILT DRAWINGS. CONTRACTOR MUST CONTACT NM ONECALL TO OBTAIN SPOTS AND SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS IN THE FIELD. SEE GENERAL NOTES FOR FURTHER INFORMATION.

NOTE: ALL PIPE IS TO BE INSTALLED 3' ABOVE GROUND AFTER PIPE PENETRATIONS ARE MADE THROUGH THE BUILDING.

- SBR BASIN NOTES ADDITIVE ALTERNATIVE NO. 2:
1. EMPTY AND ISOLATE ONE BASIN AT A TIME TO ENSURE THE WASTE WATER TREATMENT SYSTEM REMAINS IN OPERATION THROUGHOUT CONSTRUCTION. COORDINATE SEQUENCING WITH THE OWNER AND ENGINEER PRIOR TO COMMENCING WORK.
 2. CLEAN EXISTING SLUDGE AND PROPERLY DISPOSE OF IT IN ACCORDANCE WITH ALL APPLICABLE NEW MEXICO ENVIRONMENT DEPARTMENT (NMED) REGULATIONS AND PERMIT REQUIREMENTS. MAINTAIN DOCUMENTATION OF DISPOSAL QUANTITIES AND DESTINATIONS.
 3. AFTER CLEAN OUT, INSPECT THE BASIN SURFACE TO RECOAT THE ENTIRETY OF THE BASIN AS DOCUMENTED BY THE TECHNICAL SPECIFICATIONS.
 4. PERFORM APPROVED RECOATING USING MANUFACTURER RECOMMENDED MATERIALS AND INSTALLATION PROCEDURES.
 5. FOLLOWING REPAIRS, NEW COATING MUST BE INSPECTED AND APPROVED BY THE ENGINEER AND OWNER.
 6. ONCE THE NEW COATING IS APPROVED, RETURN THE REHABILITATED BASIN TO SERVICE AND PROCEED WITH THE NEXT SBR BASIN IN THE SEQUENCE.

- DIGESTER NOTES ADDITIVE ALTERNATIVE NO. 1:
1. EMPTY AND ISOLATE ONE DIGESTER CELL AT A TIME TO ENSURE THE WASTE WATER TREATMENT SYSTEM REMAINS IN OPERATION THROUGHOUT CONSTRUCTION. COORDINATE SEQUENCING WITH THE OWNER AND ENGINEER PRIOR TO COMMENCING WORK.
 2. CLEAN EXISTING SLUDGE AND PROPERLY DISPOSE OF IT IN ACCORDANCE WITH ALL APPLICABLE NEW MEXICO ENVIRONMENT DEPARTMENT (NMED) REGULATIONS AND PERMIT REQUIREMENTS. MAINTAIN DOCUMENTATION OF DISPOSAL QUANTITIES AND DESTINATIONS.
 3. AFTER CLEAN OUT, INSPECT THE DIGESTER SURFACE TO RECOAT THE ENTIRETY OF THE DIGESTER AS DOCUMENTED BY THE TECHNICAL SPECIFICATIONS.
 4. PERFORM APPROVED RECOATING USING MANUFACTURER RECOMMENDED MATERIALS AND INSTALLATION PROCEDURES.
 5. FOLLOWING REPAIRS, NEW COATING MUST BE INSPECTED AND APPROVED BY THE ENGINEER AND OWNER.
 6. ONCE THE NEW COATING IS APPROVED, RETURN THE REHABILITATED DIGESTER CELL TO SERVICE AND PROCEED WITH THE NEXT DIGESTER IN THE SEQUENCE.

- PIPING NOTES:
1. ALL PIPING TO BE INSTALLED ABOVE GROUND APPROXIMATELY 3' ABOVE EXISTING GRADE OR PINNED TO SBR BASIN WALLS.
 2. ALL PIPE SUPPORTS SHALL MEET OR EXCEED ASME B31.1 STANDARDS
 3. PIPING SHALL BE REGULARLY SUPPORTED AT AN INTERVAL NOT TO EXCEED 20'.
 4. ALL FITTINGS, BENDS, VALVES, AND TEES SHALL BE SUPPORTED.



To Request a Line Locate Dial 811

New Mexico state law requires everyone involved in any excavation to provide at least two working days' notice to owners of underground facilities when a dig is planned. All facility owners are then required to mark the locations of any underground lines or take other appropriate measures to protect them.

ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND REPORT ANY CONFLICTS TO THE ENGINEER.

Rev #	Date	Description	By	Chkd

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CITY OF LOVINGTON

LOVINGTON, NM

LOVINGTON WASTE WATER TREATMENT
FACILITY IMPROVEMENTS

PIPING PLAN

THIS DRAWING IS INCOMPLETE AND NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS STAMPED, SIGNED AND DATED

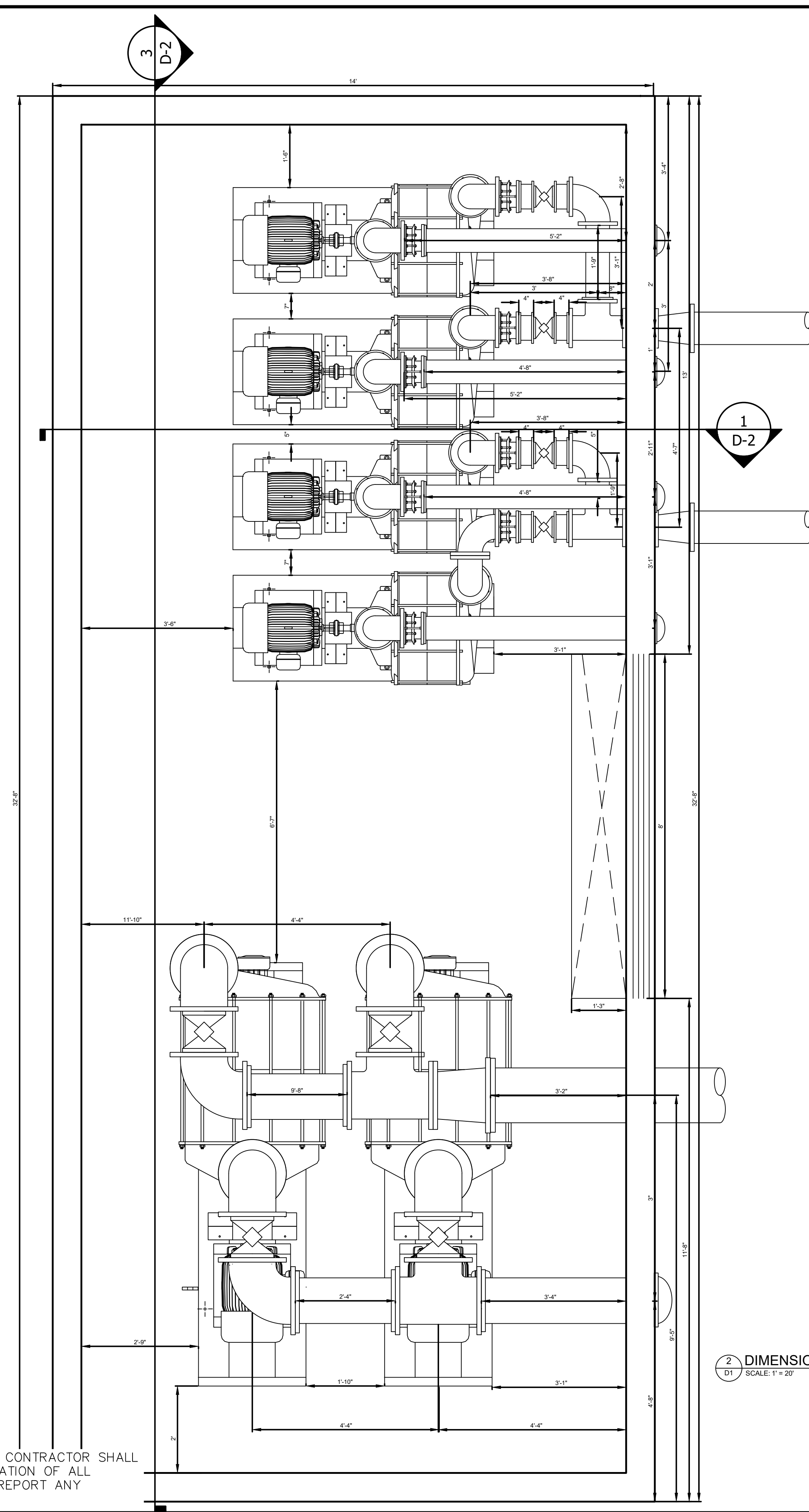
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IH	IH	WB

Date: July 2026

Scale: Horiz:
Vert:

Project No: 6C33761

Sheet:
C-1



1. FOR CLARITY, NOT ALL CEILING/FLOOR MOUNTED PIPE SUPPORTS ARE SHOWN. CONTRACTOR SHALL INSTALL PIPE SUPPORTS AS NEEDED TO PREVENT PIPES AND/OR APERTUREMANCES FROM LOSING ALIGNMENT DURING SERVICE AND FROM DROPPING DURING ASSEMBLY AND DISASSEMBLY OF COMPONENTS. CONTRACTOR SHALL SUBMIT PROPOSED LOCATIONS OF ALL PIPE SUPPORTS IN WRITING TO ENGINEER PRIOR TO SECURING IN PLACE. SUPPORTS WILL BE REQUIRED UNDER VALVES, ENDS, TEES AND NO MORE THAN 5 FT. APART SPOOLS OR AT INTERVALS NOT TO EXCEED APPLICABLE BUILDING CODES.
2. FOR PIPE SUPPORTS OUTSIDE THE BUILDING, PLEASE SEE SHEET D-3.
3. POSITION PRESSURE GAUGES SUCH THAT VIEW IS NOT OBSCURED BY OTHER EQUIPMENT IN FRONT.
4. CONTRACTOR RESPONSIBLE FOR PROVIDING ALL FITTINGS NECESSARY (E.G. - BUSHINGS, FLANGES, ADAPTERS, NIPPLES, ETC.), WHETHER EXPLICITLY SHOWN OR NOT, TO COMPLETE A FUNCTIONAL INSTALLATION.
5. CONTRACTOR RESPONSIBLE FOR PROVIDING INLET AND FILTER ASSEMBLIES NECESSARY, WHETHER EXPLICITLY SHOWN OR NOT, TO COMPLETE A FUNCTIONAL INSTALLATION.
6. ALL 1" AND SMALLER PIPE TO BE SECURED WITH PIPE CLAMPS AND 1-5/8" UNISTRUTS MOUNTED TO THE WALL OR CEILING. PIPE SUPPORTS NOT SHOWN FOR CLARITY.

[illegible]

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CITY OF LOVINGTON

LOVINGTON, NM

LOVINGTON WASTE WATER TREATMENT
FACILITY IMPROVEMENTS

BUILDING PIPING PLAN



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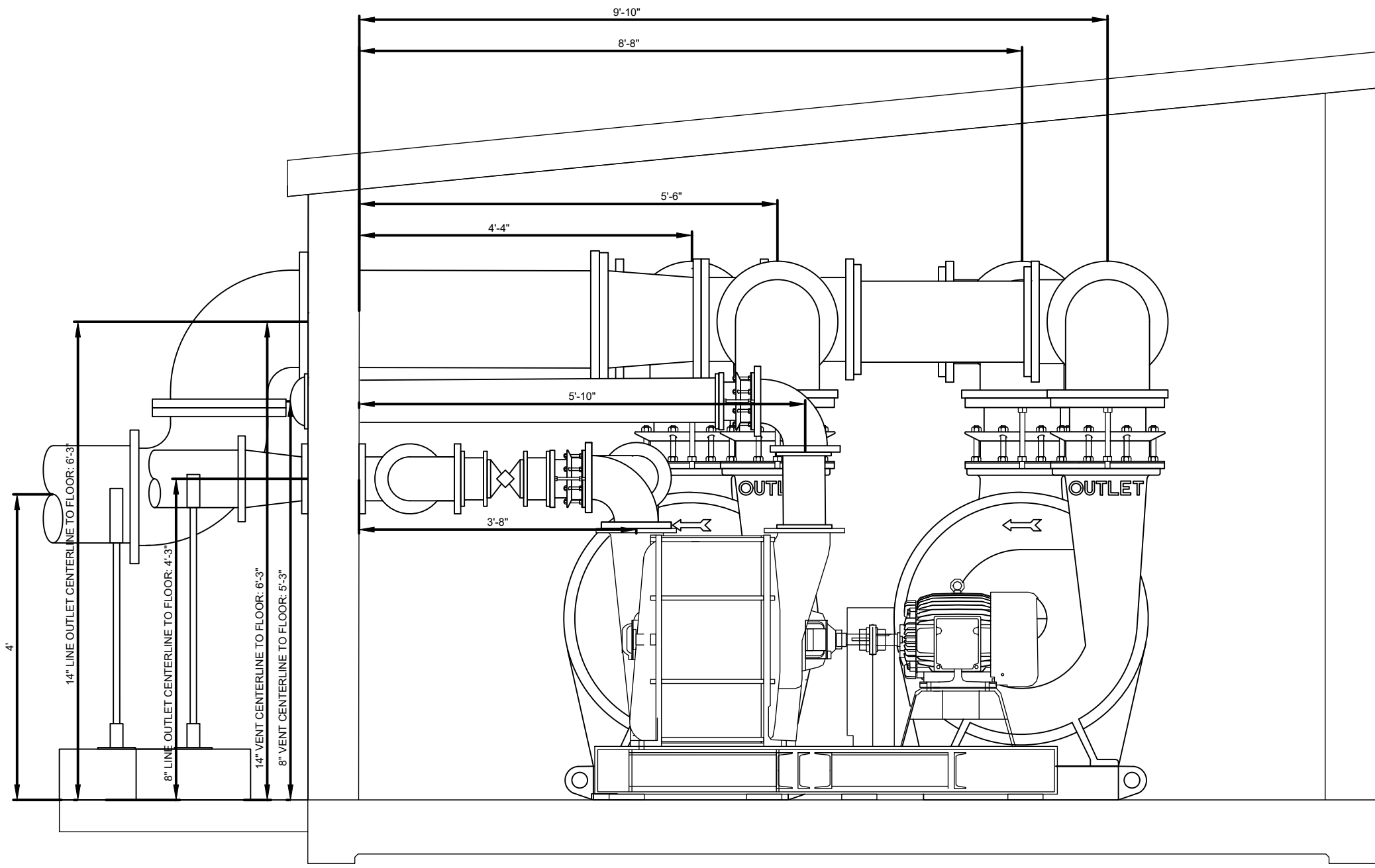
Designed IH	Drawn IH	Checked WB
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Date: July 2026

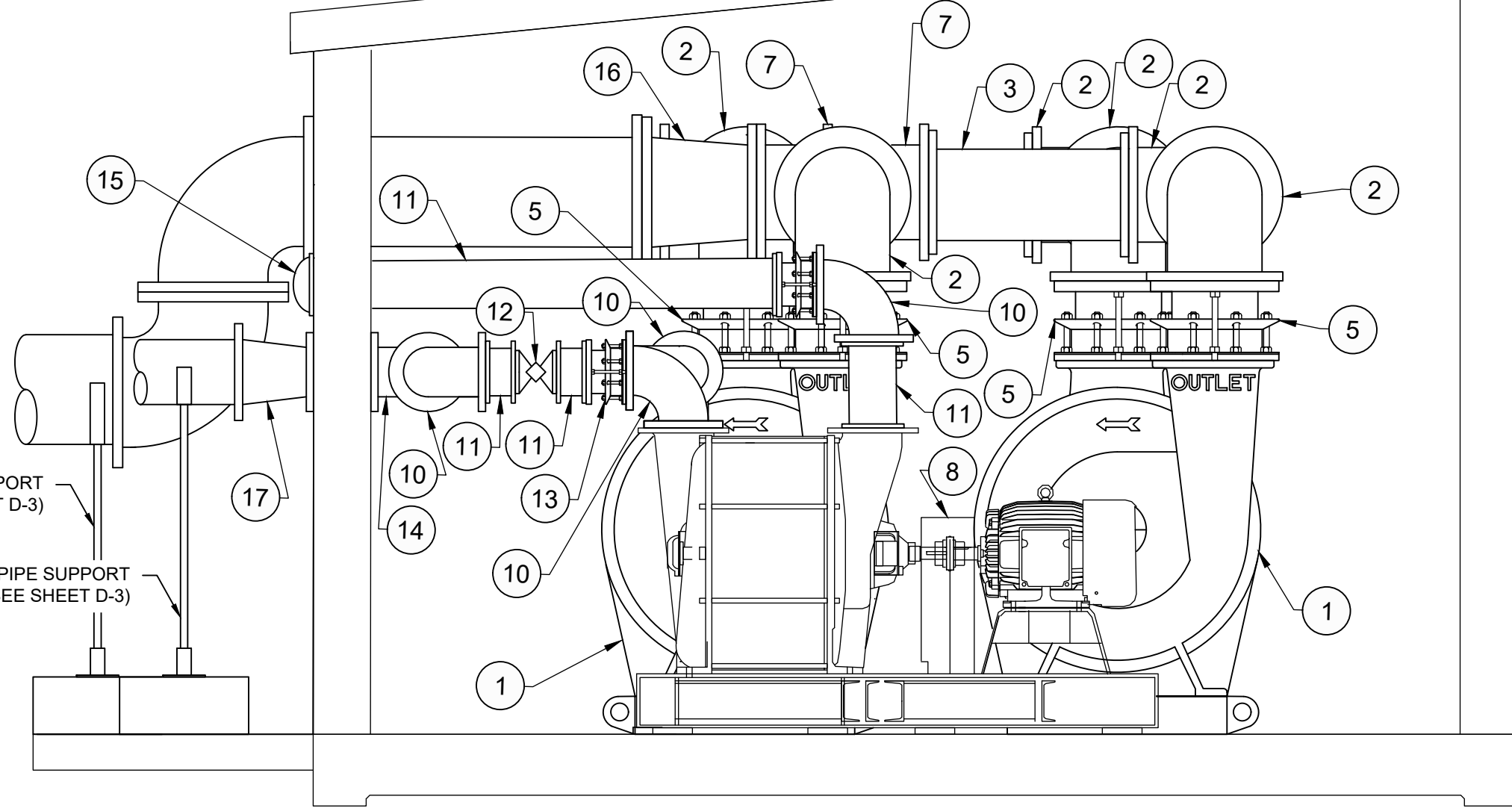
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Project No: 6C33761

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D-1



1 ELEVATION VIEW 1 DIMENSIONS
D2 SCALE: 1" = 20'



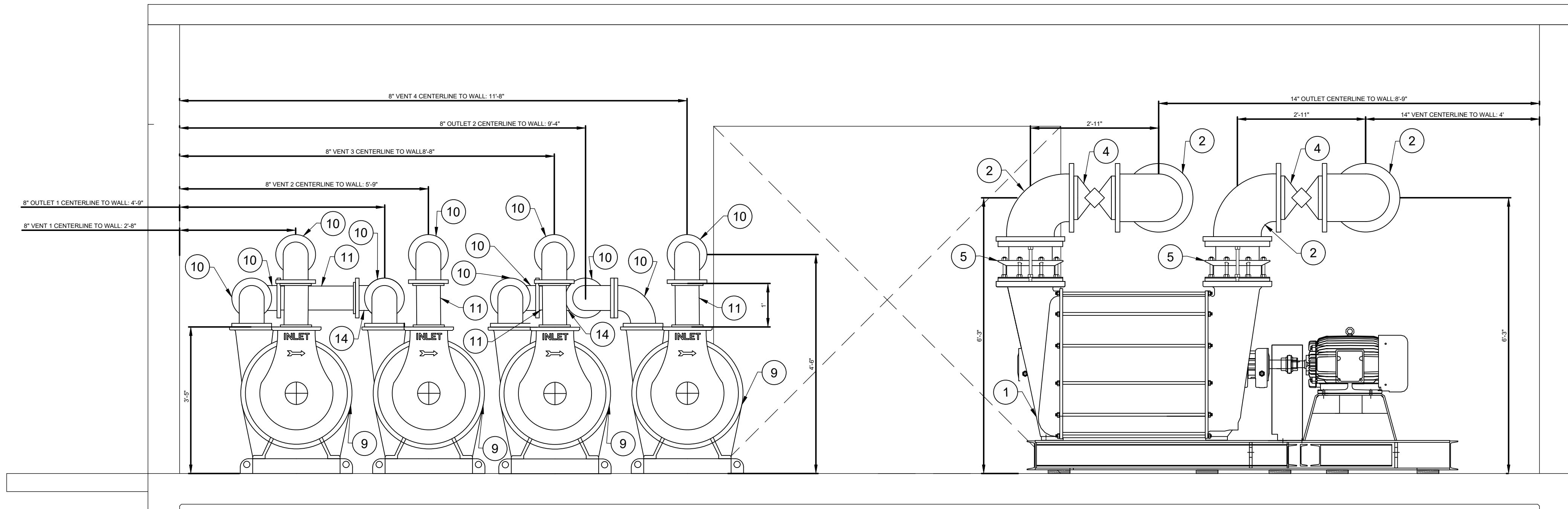
2 ELEVATION VIEW 1 LABELS
D2 SCALE: 1" = 20'

KEYED NOTES - PIPING PLAN

ITEM NO.	DESCRIPTION
1	RELOCATED EXISTING LARGE BLOWER
2	12" FL x FL 90° BEND, STAINLESS STEEL
3	12" FL x FL SPOOL, STAINLESS STEEL
4	12" FL x FL PLUG VALVE
5	12" FL x FL DISMANTLING JOINT, ROMAC DJ400
6	12" FL VENT CAP, STAINLESS STEEL, WITH FILTER, GARDNER DENVER HF20008861
7	12" x 12" x 12" FL x FL TEE, STAINLESS STEEL
8	RELOCATED EXISTING SMALL BLOWER
9	NEW SMALL BLOWER HOFFMAN 42
10	6" FL x FL 90° BEND, STAINLESS STEEL
11	6" FL x FL SPOOL, STAINLESS STEEL
12	6" FL x FL PLUG VALVE
13	6" FL x FL DISMANTLING JOINT, ROMAC DJ400
14	6" x 6" x 6" FL x FL TEE, STAINLESS STEEL
15	6" FL VENT CAP, STAINLESS STEEL, WITH FILTER, GARDNER DENVER HF20008854
16	14"x12" REDUCER, STAINLESS STEEL
17	8"x6" REDUCER, STAINLESS STEEL

NOTES:

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3 ELEVATION VIEW 2
D2 SCALE: 1" = 20'



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LOVINGTON, NM

LOVINGTON WASTE WATER TREATMENT
FACILITY IMPROVEMENTS

BUILDING PIPING ELEVATIONS



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Designed: IH Drawn: IH Checked: WB

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D-2