

CHANGE ORDER

ALLOW. DIR. NO: One

OWNER'S NAME: City of Dallas

PROJECT NAME: West Dallas Collector Sewer Extension – Phase 1
City of Dallas #2020-07
GEFA Loan No. CW2021008

CONTRACTOR: Strack, Inc.

DATE ISSUED: Wednesday, October 25, 2023

SCOPE OF WORK:

Per Change Order Proposal 004 dated August 2, 2023, Strack requests extension of substantial completion (395 days) and final completion (384 days).

JUSTIFICATION:

Request made during the preconstruction meeting (12-02-22) and design related changes due to wetwell (RFI 003).

CHANGES IN CONTRACT PRICE AND CONTRACT TIMES:

We propose the Contract Price and Contract Times be changed as follows:

For Contract Price, when requested by Engineer, attach detailed cost breakdowns for Contractor and Subcontractors, Supplier quotations, and other information required. For the Contract Times, state increase, decrease, or no change to Contract Times for Substantial Completion, readiness for final payment, and Milestones, if any. If increase or decrease, state specific number of days for changes to the Contract Times.

Description	Amount	Contract Times (days)	
		Substantial	Final
Request made during the preconstruction meeting (12-02-22) and design related changes due to wetwell (RFI 003).	\$0.00	395	384
<i>Total This Change Order Proposal</i>	<i>\$0.00</i>	<i>395</i>	<i>384</i>

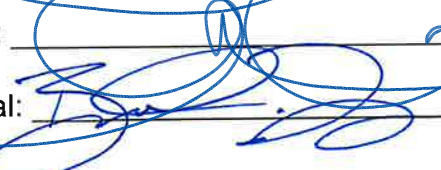
Changes to Milestones, if any: See updated summary of dates below. This request will also update the issued NTP date based on Addendum No. 4 that was not accounted for in the original NTP issued for the project.

Contracts Signed	5/16/2022	
Notice to Proceed	9/19/2022	
Construction Time (SC)	370	ADD#4
Substantial Completion	9/24/2023	
Final Payment	45	ADD#4
Final Completion	11/8/2023	
Days at Preconstruction	528	PRECON/PM 12-2022
Final Completion Strack	2/29/2024	
Change Order Request	237	RFI 003
Final Completion Strack	11/26/2024	
Final Payment	34	ADJ. BASED SCH.
Substantial Completion	10/23/2024	
Change Order Req. SC	395	
Change Order Req. FINAL	384	

The adjustment proposed is the entire adjustment to the Contract to which the proposer believes it is entitled as a result of the proposed change.

Owner Approval: _____ Date: _____

Engineer Approval: _____ Date: 10/26/23

Contractor Approval:  _____ Date: 10/26/23

MEMORANDUM



2203 Charles Hardy Parkway, Suite 300 Dallas, GA 30157 770.505.8115 tel.

TO: All Attendees

FROM: Charles D. Rann, PE

DATE: September 13, 2022

**RE: Pre-construction Meeting Minutes
West Dallas Collector Sewer Extension – Phase 1
City of Dallas #2020-07
GEFA Loan No. CW2021008
WKD # 20220511.00.AT**

-
- I. Introduction of Attendees: See attached Meeting Sign-In Sheet
- II. Project Overview
- A. The project will take place along Pumpkinvine Creek east of State Route 61 and from the lift station, it extends south upstream along Lawrence Creek to the City of Dallas WRF. The project has been divided into three parts below which include the following major items of construction.
- Sewer Lift Station
- New wet well, valve vault, metering manholes, and installation of three 215 Hp pumps, influent screen, and mixer
 - Electrical building and installation of generator
 - Earthwork, access road, utilities, landscaping, and yard piping
- Force Main Sewer
- 3,998 feet± of 10-inch diameter polyvinyl chloride force main
 - 3,998± feet of 12-inch diameter polyvinyl chloride force main
 - Installation of valves and fittings at tie-in at existing plant headworks
- Gravity Sewer
- 5,583± linear feet of 24-inch gravity sewer
 - 230± linear feet of 12-inch gravity sewer

- 4,129± linear feet of 8-inch gravity sewer

B. Piping/Equipment to be Provided by City of Dallas: See attached material inventory

- All gravity sewer piping (not including manholes)
- All force main sewer piping (not including bends or Air Release Valves)
- 2-inch water service line for sewer lift station
- Sewer lift station pumps and control panel(s) (Xylem)
- Sewer lift station mixer (Xylem)
- Generator (Caterpillar)

III. Completion of Contract Documents:

A. Cost of Work: \$11,941,699.60

B. Copies of Conformed Plans & Specifications at Dropbox link below:

<https://www.dropbox.com/sh/3ql39zx8jff6l44/AAANVASHa1dgKxLG2A3HkiUa?dl=0>

C. Contract Dates:

1. Notice to Proceed: September 19, 2022
2. Contract Days: 280 (Substantial)/310 (Final Payment)
3. Construction Complete: Based on the current schedule from Strack we are at 528 days (February 29, 2024). Meeting to be held with Strack and City of Dallas to discuss before finalizing schedule changed.
4. Liquidated Damages: \$ 750/calendar day

IV. Contact/Communication:

A. Contractor: Strack, Inc.

1. General Superintendent: David Cooper
Cell #404-427-0551
E-mail Address: davidc@strackinc.com
2. Project Manager: Brent Day
Cell #470-590-8235
E-mail Address: brentd@strack.inc

B. Engineer: WK Dickson & Co., Inc.

1. Construction Observer: Nick McConnell
Cell # 770-876-4971
E-mail Address: nmccConnell@wkdickson.com

- 2. Project Manager: Charles D. Rann, PE
Cell # 678-471-3463
E-mail Address crann@wkdickson.com

 - C. Third Party Testing Firm: GeoHydro Engineers
Johnny Beckman, PE
Cell # 678-313-1952
E-mail Address jbeckman@geohydro.com

 - D. Owner: City of Dallas
Brandon Rakestraw, Public Works Director
Telephone # 770-443-8110 Ext. 1401
Cell #678-449-4045
E-mail Address brakestraw@dallas-ga.gov

 - E. GEFA:
Amanda Carroll, PMP
Telephone # 404-450-8381
E-mail Address acarroll@gefa.ga.gov

 - F. The route of communication between the Contractor and the Owner is always through the Engineer or the Construction Observer, except when coordinating marking of water and sewer utilities and opening or closing existing water line valves to assist with completing the water line construction.

 - G. The Construction Observer has authority to disapprove or reject defective work. He does not authorize any deviations from the Contract Documents, or approve any substitute materials or equipment. He will not authorize any work which causes a change in the contract price.
- V. Submittals from the Contractor - General Conditions:
- A. Progress Schedule - indicate starting and completion dates for the various stages of the work. Initial schedule presented at meeting attached for reference.

 - B. Shop Drawings - a transmittal is required for each shop drawing. Each transmittal shall be numbered in order of submittal sequence and the specification section number shall be included. Four copies of each submittal are required, plus the number required to be returned to the Contractor. All shop drawings must be reviewed by the Contractor and shall bear a stamp indicating the Contractor has reviewed and approved the submittal.

 - C. Schedule of Values (for Sewer Lift Station) - to include quantities and prices of work. Shall be reviewed and modified where directed by the Engineer.
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- D. List of Subcontractors, Suppliers, etc. who will participate in the work is to be submitted.
- E. O&M Manuals are required on each major piece of equipment per the specifications.

VI. Easements, Encroachments, Permit Notification Requirements

- A. All easements, encroachments and permits have been obtained unless noted. Right of entry for entire alignment. Easement remaining for Kades Cove extension.
- B. Contractor shall provide all land he needs for access, storage, etc. Contractor shall obtain a release from each project owner prior to project completion.
- C. Permits:
 - 1. Paulding County Land Disturbing Permit (approved WKD has LDP Placard and will coordinate with Strack for placement at the site).
 - 2. NPDES General Permit will be required (Contractor to file NOI).
 - 3. GDOT UEP for the Highway 61 crossing will be provided to the Contractor (approved). Permit will be activated by City of Dallas when Contractor ready for installation.
 - 4. GaEPD Sanitary Sewer Extension Approval (complete).
 - 5. USCAE PCN (complete).
 - 6. Building Permit will be required for Electrical (review completed).

VII. Laws, Site Safety

- A. OSHA - Trenching guidelines/safety is the responsibility of the Contractor. WK Dickson may make comments to site Superintendent when we feel proper safety measures are not being followed. W. K. Dickson expects the Contractor to heed warnings and correct unsafe conditions immediately.
- B. Signage for construction adjacent to roadways are required per MUTCD (Manual of Uniform Traffic Control Devices).
- C. Emergencies – the Contractor is required to act without instructions from the Owner or Engineer in emergencies affecting safety of employees, work or property.

VIII. Changes in Work

- A. We will follow the conditions of these articles for this contract, with the following significant points to be discussed:

1. When the need for a change is determined by either the Owner or the Contractor, WKD would appreciate prompt notification.
 2. WKD will prepare all change orders.
 3. All Change Orders will be approved in writing by the Owner.
- B. A time extension will be given for abnormal weather conditions. When the actual number of calendar days the contractor could not work exceeds the mean number of days of precipitation per month (>0.10"), the contract shall be extended; however, if the actual number of days is less, then the contract period shall be reduced. The time extension shall be for time only, no increase in contract price will be considered.

IX. Monthly Progress Meeting

- A. Date, Time and Location of monthly meetings to be determined in the coming weeks. Additional meetings will be scheduled if:
1. The need for a change is determined by either the Owner or the Contractor, WKD would appreciate prompt notification.
 2. WKD will prepare all change orders.
 3. All Change Orders will be approved in writing by the Owner.
- B. Typical Agenda
1. Schedule
 2. Rain Days
 3. Issues/Concerns
 4. Pay Request
 5. Anticipated Changes

X. Applications for Progress Payments

- A. Application Procedures:
1. Meet with Construction Observer on 25th of each month to measure and prepare draft estimate.
 2. WKD will type estimate and send to Contractor for review and approval. Contractor is to return estimate to Engineer.
 3. W. K. Dickson will deliver to the City for placing into the accounting system for payment. Payment by City within 30 days of receipt of an Approved Application for Payment.
- B. GEFA Compliance and pay application procedures. See attached GEFA package.
- C. Stored materials will be paid for only when accompanied by invoices for the material claimed. The material inventory will be reduced each month as

construction progress is made with zero inventory accounted for at the end of the project. Use form provided in contract.

XI. Substantial Completion/Final Inspection/Final Payment

- A. Substantial completion – substantial completion is when Owner and Engineer determine the work is sufficiently complete in accordance with the contract documents so the project (or a portion) can be utilized for the purpose it was intended.
- B. Final inspections will be conducted after Contractor has met with the Construction Observer and completed the preliminary punch list of items generated at that time.
- C. The final pay request will be forwarded to the Owner after all the work is complete on the project. Typical items which tend to delay final payment and are required before we recommend payment include:
 - 1. Completion of all final punch list items.
 - 2. Contractor's Record Drawings delivered to the Engineer.
 - 3. Consent of Surety and Release of Lien Certificates delivered to the Engineer.
- D. The date of the one-year warranty will begin on the date of substantial completion.
- E. Liquidated damages in the amount of \$ 750 will be assessed the Contractor for each calendar day the Contractor is late in fully completing the project (not substantial completion). Liquidated damages will be assessed until all deficiencies are corrected as a result of the Final Inspection.

XII. Other Discussion Items

- A. Deliveries: Discussed access drive to plant. Contractor has already placed lock on gate off Old Cartersville and has code for entry into plant site. Will need placement of additional lock on access drive back to sewer lift station site. Contractor will need to coordinate access with plant staff.
- B. GEFA 2nd Tier Approvals: GEFA to provide response.
- C. Dust Control: Contractor needs to maintain dust control throughout construction and minimize to the extent possible from normal plant operations.
- D. Special Inspections: Inspections to be coordinated by Strack with GeoHydro.
- E. Pre-construction Survey – Contractor will provide a pre-construction video survey of access and work areas prior to construction work.

- F. Elevate Drilling & Blasting and HydroSpec: Contractor to provide GEFA 9 and GEFA 10 for blasting sub along with Specialty Letter. HydroSpec has changed their name to Valor Enviromental and will need to have Contractor provide name change letter from Valor to include in project records.

Pre-Construction Meeting Sign-In Sheet

City of Dallas

West Dallas Collector Sewer Extension - Phase 1

Project #2020-07

GEFA Loan No. CW2021008

September 13, 2022 at 10:00 am

City Hall, 129 E. Memorial Drive, Dallas, GA 30132

	Company	Contact	E-mail	Phone
1	Willow Construction	Alan C. Braver	agrand@willowcon.com	770-272-1555
2	"	Mitchell Domick	mdomick@willowcon.com	" "
3	Strack, Inc.	Jonathan Strack	jonathans@strackinc.com	404-713-7708
4	Strack, Inc.	Wesley Clark	wesley@strackinc.com	678-480-1586
5	Strack, Inc.	Brent Day	BrentD@strackinc.com	470-590-8235
6	Strack Inc	David Cooper	DavidC@strackinc.com	404-427-0557
7	City of Dallas	Byce Atcheson	BAtcheson@dallas-ga.gov	770 443 8110
8	W.K. Dickson	Nick McLennell	nmccanne@wkdickson.com	770-876-4977
9	CITY OF DALLAS	Brandon Jackson	brandon@wkdickson.com	678-447-4945
10	W.K. DICKSON	MIKE JONES	MJONES@WKDICKSON.COM	404-406-9112

Pre-Construction Meeting Sign-In Sheet

City of Dallas

West Dallas Collector Sewer Extension - Phase 1

Project #2020-07

GEFA Loan No. CW2021008

September 13, 2022 at 10:00 am

City Hall, 129 E. Memorial Drive, Dallas, GA 30132

	Company	Contact	E-mail	Phone
11	City of Dallas	Brian Bourque	bbourque@dallas-ga.gov	678-727-2832
12	City of Dallas	hee James	James@dallas-ga.gov	678-449-4333
13	GEFA	Jenerrah Byron	jbyron@gefa.ga.gov	404 584 1049
14	GEFA	Amanda Carroll	acarroll@gefa.ga.gov	404-450-8381
15	City of Dallas	Kendall Smith	ksmith@dallas-ga.gov	770-443-8110
16	WK DICKSON	CITUCK RAIN	CRANN@EDISONENG.COM	678-471-3463
17				
18				
19				
20				

MATERIAL INVENTORY

Date: September 9, 2022

Location: 1753 Old Cartersville Rd
Dallas, GA 30132

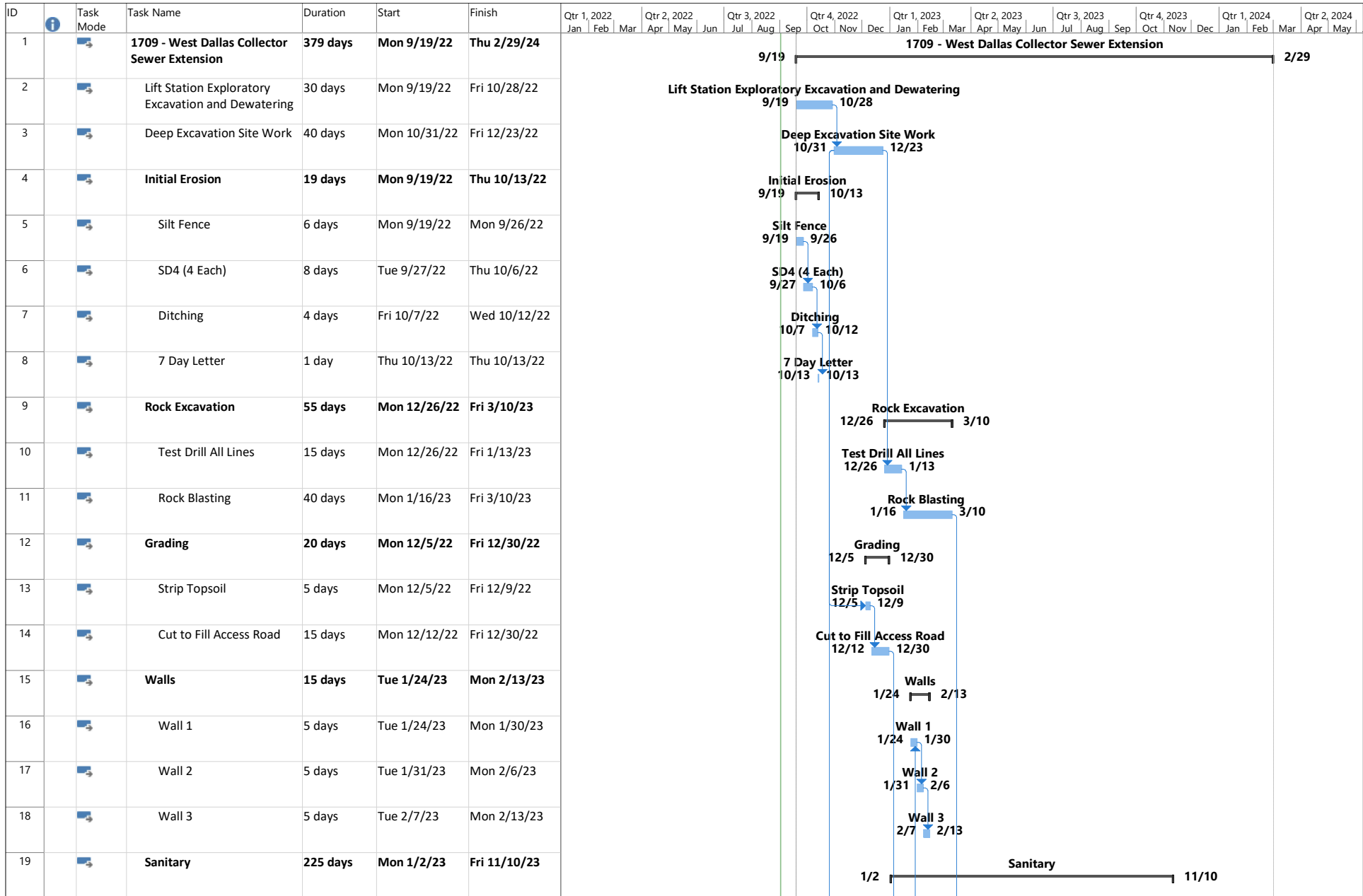
Subject: **Project Site Inspection & Material Inventory**
West Dallas Collector Sewer Extension – Phase 1
City of Dallas #2020-07
GEFA Loan No. CW2021008
WKD # 20220511.00.AT

OBSERVATIONS

Nick McConnell conducted a Site Inspection on September 9, 2022 to perform an inventory of material currently stored at the site. Material stored along access road to Pumpkinvine WWTP and along prosed force main route. Table 1 shows the material counted on site as of 9-09-22.

Table 1					
Material Class & Size	Quantity Ordered (LF)	Material Inventoried On Site (EA)	Material Delivered According to Bill of Lading		Material Unaccounted for (LF)
			to Site (LF)	to Strack (LF)	
24" PS 115	5,600	392	5,600	0	98
12" DR-18	3,980	199	3,980	0	0
12" SDR 26	238	0	126	112	126
10" DR-18	3,980	119	2,400	1,580	20
8" SDR 26	4,228	302	4,228	0	0
36" 0.500	400	20	0	0	0
20" 0.375	100	5	0	0	0
16"0.250	80	4	0	0	0

This table includes two pipes found on site that were damaged. One 14-foot section of 24-inch PS 115 and one 20-foot section of 10-inch DR-18.



Project: 1709 - West Dallas Coll Date: Fri 9/2/22	Task	Project Summary	Manual Task	Start-only	Deadline
	Split	Inactive Task	Duration-only	Finish-only	Progress
	Milestone	Inactive Milestone	Milestone	External Tasks	Manual Progress
	Summary	Inactive Summary	Manual Summary	External Milestone	Milestone



PRECONSTRUCTION CONFERENCE STATE REVOLVING FUND CHECK-LIST

Project:	Contractor:
Project No.:	Contractor's NTP:
Loan Contract Execution Date:	Contractor's Completion Date:
Loan Construction Completion Date:	Contract Amount:
First Loan Draw Deadline:	Other Funding Source(s):

GENERAL INFORMATION:

The Owner is responsible for compliance with all requirements of its loan contract as it relates to the following:

- (1) Placement of work in accordance with loan contract requirements.
- (2) Protection of stored materials.
- (3) Compliance with Wage Rates, Davis-Bacon Act, and certified payroll (29 CFR).
- (4) Compliance with Labor Interviews: A minimum of 2 rounds of interviews must be conducted during the project. (One round at the beginning, one round at the end of the project).
- (5) Required signs should be displayed on the project site in a location accessible to workers.
- (6) Compliance with American Iron & Steel Requirements (AIS).

GEFA will periodically perform site visits to verify loan contract compliance. The Owner will receive a written loan compliance report, with a copy to the Engineer.

LOAN DRAWS:

The Owner is required to submit information required by Exhibit "C" of the loan contract before loan disbursements may commence.

- a) Proof of advertising
- b) Certified detailed bid tabulation
- c) Engineer's award recommendation
- d) Governing body's award resolution
- e) Executed contract documents, including plans and specifications
- f) Construction and payment schedules
- g) Notice to proceed
- h) Non-collusion Affidavit (Contractor's written oath in accordance with O.C.G.A. 36-91-21)
- i) Summary of plans for on-site quality control to be provided by the Owner or Engineer - name and brief qualifications of construction inspector(s) and approximate hours per week of inspection to be provided.
- j) Disadvantaged Business Enterprise (DBE) approval

One loan draw request may be submitted per month. Loan funds will be disbursed in accordance with funding percentages shown in the loan contract budget.

LOAN DRAWS (continued):

Loan funds will be disbursed when:

- Loan compliance has been demonstrated
- “Owner” and “Owner’s representative” have certified and approved work in place and GEFA loan compliance has been met. Pay estimates accompanying the Owner’s draw requests must clearly define work in place. A stored material summary should show the value of materials received, placed, and stored during the pay period. Invoices for materials should be included with the pay estimate.
- A signed “Sub-recipient Report of Davis Bacon Compliance” form from the owner is submitted. ***See Attached.**

Final funding will be processed for each construction contract when contract work, including punch-list work, is complete, and GEFA has received a copy of the **Engineer’s certification** that work is complete in conformance with approved contract documents and a copy of the **Contractor’s final pay estimate and final release of lien**. The **Owner’s final loan draw request** must include the **Owner’s certification** that the project is complete and there are no known liens or claims are pending as a result of the project.

CHANGE ORDERS:

A copy of all approved executed change orders between “Owner”, “Owner’s Representative”, and Contractor must be submitted to GEFA for review of concurrence with loan contract.

FEDERAL REQUIREMENTS:

Davis Bacon - Copies of payrolls for the prime contractor and all subcontractors should be included with contractor’s pay requests and submitted to the Owner for its files. (See SRF Supplemental General Conditions or 29 CFR 5.5 for full requirements). The prime Contractor must maintain copies of certified weekly payrolls for itself and for all subcontractors for a period of three years beyond completion. The Owner must verify contractor compliance with Davis Bacon requirements, perform representative labor standards interviews, and provide required reports to GEFA. All records are subject to audit or review. GEFA will periodically spot-check the Owner’s Davis Bacon compliance files.

EEO/DBE requirements of the construction contract will be enforced. Any changes/substitutions of approved subs and all additions must be reported to GEFA. Efforts to include DBE participation in any future subcontracting must be approved by GEFA. Appropriate documentation should be submitted, regardless of the amount of the subcontract. The annual report of MBE/WBE utilization (EPA Form 5700-52) must be received by the 15th of October for the annual reporting period, even if there is no activity to report. Violations will result in ineligibility of related work. ***All required reporting forms are included in the SRF Supplemental General Conditions of the construction contract.***

OSHA - A "competent person", as defined by OSHA as responsible for safety, should be identified on site. OSHA, EEO posters, signage, and wage rates should be posted on site in a location accessible to employees.

American Iron and Steel Requirements – (See AIS Supplemental General Conditions or 29 CFR 5.5 for full requirements). *Manufacturing Certifications must be specific to the project specifying the products used, location of manufacturing, name of project and include the manufacturer’s letterhead and signature. The Owner is required to maintain records for a minimum of 3 years. De Minimus Waiver may not exceed more than 5 percent or 1% of the total cost of the project materials for cumulatively or individually, respectively.*

Questions and comments regarding loan funding of this project may be directed to:

Amanda Carroll Water Resources Division Georgia Environmental Finance Authority 47 Trinity Ave SW Fifth Floor Atlanta, Georgia 30334

(404) 584-1053 (office)

(404) 450-8381 (cell)

acarroll@gefa.ga.gov

CERTIFIED PAYROLL REVIEW CHECKLIST

CONTRACT ID City of CWSRF 00 - 000	PRIME/SUBCONTRACTOR X Construction
GENERAL WAGE DECISION AND DATE GA20080105 09/04/09	PAYROLL ENDING

INSTRUCTIONS: This checklist is to be used in conjunction with projects requiring Davis-Bacon Wage Rates and compliance reviews. All certified payrolls are to be date stamped upon receipt from the prime contractor.

Payroll Information Checklist:

- Contractor's or subcontractor's name and address
- Contract ID numbers (GEFA SRF No.)
- Week ending.
- Project location.

- Employee ID or Last 4 digits of Social Security Number
 - Social Security Number removed
 - Employee's work classification
 - Identification of OJTs, apprentices and program levels (%) on payrolls.
 - Verify that OJT and Apprentice Program documentation is in project files.

- Daily and weekly employee hours worked in each job classification.
 - Daily and weekly employee overtime (or premium) hours worked
 - Total weekly hours worked on all jobs (prevailing and non-prevailing wage).
 - Base rate shown for each employee, overtime (or premium) rate shown when worked.
 - Verify correct wage rates are being paid.
 - Verify overtime is being paid correctly (over 40 hrs/wk, and Time and a half)
 - Week's gross wages
 - Week's itemized deductions.
 - Week's net wages paid

- Compliance statement attached.
 - Method of fringe benefit payment described by checking either box (4)(a) or (4)(b).
 - Fringe benefit package information in file and updated as needed (if 4(a) is checked)
 - Exceptions explanation for fringe benefit (4)(c).
 - Signature.

Compliance Review Checklist (for field reviews):

- Verify work classifications reported are consistent with the work performed.
- Compare payrolls with wage rate interviews when conducted.
- Compare number of employees and hours worked with project documentation.

**STATE REVOLVING FUND SUBRECIPIENT REPORT OF COMPLIANCE WITH
DAVIS-BACON LABOR STANDARDS PROVISIONS
FOR FEDERALLY ASSISTED CONTRACTS**

Owner/Jurisdiction:

SRF Loan No:

Project Description:

This form will be submitted with or prior to the loan recipient's first request for funding of construction costs, prior to final disbursement of funds from the loan, and as requested by the State during the project.

Subrecipient (SRF loan recipient) Statement:

I confirm that to the best of my knowledge and belief that we are in compliance with the requirements of 29 CFR 5.5(a)(1), as referenced in the following requirements of the Davis Bacon Act, USEPA guidance, and the State Revolving Fund grant agreement between USEPA and the State of Georgia.

Signature (Owner/Owner Representative)

Date

USEPA Requirements (from Davis Bacon Act, USEPA guidance, SRF grant agreement):

2. Obtaining Wage Determinations

(a) Subrecipients shall obtain the wage determination for the locality in which a covered activity subject to DB will take place prior to issuing requests for bids, proposals, quotes or other methods for soliciting contracts (solicitation) for activities subject to DB. These wage determinations shall be incorporated into solicitations and any subsequent contracts. Prime contracts must contain a provision requiring that subcontractors follow the wage determination incorporated into the prime contract.

(i) While the solicitation remains open, the subrecipient shall monitor www.wdol.gov weekly to ensure that the wage determination contained in the solicitation remains current. The subrecipients shall amend the solicitation if DOL issues a modification more than 10 days prior to the closing date (i.e. bid opening) for the solicitation. If DOL modifies or supersedes the applicable wage determination less than 10 days prior to the closing date, the subrecipients may request a finding from the State recipient that there is not a reasonable time to notify interested contractors of the modification of the wage determination. The State recipient will provide a report of its findings to the subrecipient.

(ii) If the subrecipient does not award the contract within 90 days of the closure of the solicitation, any modifications or supersedes DOL makes to the wage determination contained in the solicitation shall be effective unless the State recipient, at the request of the subrecipient, obtains an extension of the 90 day period from DOL pursuant to 29 CFR 1.6(c)(3)(iv). The subrecipient shall monitor www.wdol.gov on a weekly basis if it does not award the contract within 90 days of closure of the solicitation to ensure that wage determinations contained in the solicitation remain current.

(b) If the subrecipient carries out activity subject to DB by issuing a task order, work assignment or similar instrument to an existing contractor (ordering instrument) rather than by publishing a solicitation, the subrecipient shall insert the appropriate DOL wage determination from www.wdol.gov into the ordering instrument.

(c) Subrecipients shall review all subcontracts subject to DB entered into by prime contractors to verify that the prime contractor has required its subcontractors to include the applicable wage determinations.

(d) As provided in 29 CFR 1.6(f), DOL may issue a revised wage determination applicable to a subrecipient's contract after the award of a contract or the issuance of an ordering instrument if DOL determines that the subrecipient has failed to incorporate a wage determination or has used a wage

determination that clearly does not apply to the contract or ordering instrument. If this occurs, the subrecipient shall either terminate the contract or ordering instrument and issue a revised solicitation or ordering instrument or incorporate DOL's wage determination retroactive to the beginning of the contract or ordering instrument by change order. The subrecipient's contractor must be compensated for any increases in wages resulting from the use of DOL's revised wage determination.

3. Contract and Subcontract Provisions

(a) (3)(i) As to each payroll copy received, the subrecipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week.

5. Compliance Verification (from Davis Bacon Act, USEPA guidance, SRF grant agreement)

(a). The subrecipient shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(6), all interviews must be conducted in confidence. The subrecipient must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.

(b) The subrecipient shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, the subrecipient should conduct interviews with a representative group of covered employees within two weeks of each contractor or subcontractor's submission of its initial weekly payroll data and two weeks prior to the estimated completion date for the contract or subcontract. Subrecipients must conduct more frequent interviews if the initial interviews or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. Subrecipients shall immediately conduct necessary interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence.

(c). The subrecipient shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The subrecipient shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable the subrecipient should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Subrecipients must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the subrecipient shall verify evidence of fringe benefit plans and payments thereunder by contractors and subcontractors who claim credit for fringe benefit contributions.

(d). The subrecipient shall periodically review contractors and subcontractors use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and

apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item 5(b) and (c) above.

(e) Subrecipients must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at <http://www.dol.gov/esa/contacts/whd/america2.htm>

GEORGIA ENVIRONMENTAL FINANCE AUTHORITY

AMERICAN IRON AND STEEL SPECIAL CONDITIONS AND INFORMATION

For

FEDERALLY ASSISTED STATE REVOLVING LOAN FUND CONSTRUCTION CONTRACTS

March 18, 2014

The Following standard language must be incorporated into construction contract documents and in all solicitations for offers and bids for all construction contracts or subcontracts to be funded, in whole or in part, through the Federally-assisted State Revolving Fund in the State of Georgia for projects subject to the American Iron and Steel requirements.

These Special Conditions shall not relieve the participants in this project of responsibility to meet any requirements of other portions of this construction contract or of other agencies, whether these other requirements are more or less stringent. The requirements in these Special Conditions must be satisfied in order for work to be funded with the State Revolving Fund.

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GENERAL REQUIREMENTS

These Special Conditions are based on guidance provided by the United States Environmental Protection Agency (EPA). Public Law 113-76, the Consolidated Appropriations Act, 2014 (Act), includes an “American Iron and Steel” (AIS) requirement that requires State Revolving Loan Fund (SRF) assistance recipients to use iron and steel products that are produced in the United States for projects in this project. A copy of Section 436 of the Act is found in Appendix 3.

The products and materials subject to these requirements will be defined in Appendix 1 of these special conditions.

The Owner must maintain documentation of compliance with the AIS requirements. The documentation that the Owner maintains will be subject to review and audit by representatives of the state of Georgia, the EPA, the EPA Office of the Inspector General, and other federal authorities.

The Prime Contractor must provide certifications of compliance for all products subject to AIS requirements to the Owner prior to requesting payments for those products. The Owner or the Engineer may require certifications of compliance with submittals and shop drawings for these products as part of the submittal review process.

All manufacturing processes for a covered iron or steel product, as further defined in Appendix 1, must take place in the United States. If a covered product is taken out of the US for any part of the manufacturing process, it becomes foreign source material.

The EPA recommends the use of a step certification process to document the locations of the manufacturing processes involved with the production of steel and iron materials. A step certification is a process under which each handler (supplier, fabricator, manufacturer, processor, etc.) of the iron and steel products certifies that its step in the process was domestically performed. Each time a step in the manufacturing process takes place, the manufacturer delivers its work along with a certification of its origin. A certification should include the name of the manufacturer, the location of the manufacturing facility where the product or process took place (not its headquarters), a description of the product or item being delivered, and a signature by a manufacturer’s responsible party. Attached in Appendix 2 is a sample step certification.

Alternatively, the final manufacturer that delivers the iron or steel product to the worksite, vendor, or contractor, may provide a certification asserting that all manufacturing processes for the product and for its iron and steel components occurred in the United States. The EPA states that additional documentation may be needed if the certification lacks important information and recommends step certification as the best practice. A sample final manufacturer certification is attached in Appendix 2.

Contractor, supplier, and manufacturer records are subject to review and audit by the EPA, its Inspector General, and other federal authorities.

Failure to comply with these requirements may delay, limit, or prevent the disbursement of SRF funds to the Owner. Violations of AIS requirements will require correction by the Contractor as determined by the Owner and Engineer, including replacement of deficient products with compliant products and compensation for costs and other damages that may result. Violations may also subject the Owner, the Contractor, and suppliers to other enforcement actions within the discretion of the EPA and other federal authorities.

The Act permits EPA to issue waivers for a case or category of cases in which EPA finds (1) that applying these requirements would be inconsistent with the public interest; (2) iron and steel products are not produced in the US in sufficient and reasonably available quantities and of a satisfactory quality; or (3) inclusion of iron

and steel products produced in the US will increase the cost of the overall project by more than 25 percent. The Contractor should notify the Owner and Engineer immediately if it finds that a waiver may be required.

By submitting a bid for this project and by executing this construction contract, the Contractor acknowledges to and for the benefit of the Owner and the state of Georgia that it understands that the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund or the Drinking Water State Revolving Fund and that Federal law authorizing these Funds contains provisions 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 and warrants to and for the benefit of the Owner and the state of Georgia 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 Owner or the state of Georgia. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Owner or the state of Georgia to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Owner or the state of Georgia resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the state of Georgia or any damages owed to the state of Georgia by the Owner). The Owner and the Contractor agree that the state of Georgia, as a lender to the Owner for the funding of its project, 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 state of Georgia.

Appendix 1 – Definitions

For purposes of the Clean Water State Revolving Fund (CWSRF) and Drinking Water State Revolving Fund (DWSRF) projects that must comply with the AIS requirement, an iron or steel product is one of the following made primarily of iron or steel that is permanently incorporated into the project:

Lined or unlined pipes or fittings;
Manhole Covers;
Municipal Castings (defined in more detail below);
Hydrants;
Tanks;
Flanges;
Pipe clamps and restraints;
Valves;
Structural steel (defined in more detail below);
Reinforced precast concrete; and
Construction materials (defined in more detail below).

Product primarily of iron or steel: The product must be made of greater than 50% iron or steel, measured by cost. If one of the listed products is not made primarily of iron or steel, United States (US) provenance is not required. If a product is composed of more than 50% iron or steel, but is not listed in Section 436. (a)(2) of the Act, it is not required to be produced in the US. Alternatively, the iron or steel in such a product can be sourced from outside the US.

Steel: An alloy that includes at least 50 percent iron, between .02 and 2 percent carbon, and may include other elements. Other alloys of iron are not required to be produced in the US.

Produced in the United States: Production in the US of the iron or steel products used in the project requires that all manufacturing processes, including application of coatings, must take place in the United States, with the exception of metallurgical processes involving refinement of steel additives. All manufacturing processes includes processes such as melting, refining, forming, rolling, drawing, finishing, fabricating and coating. Further, if a domestic iron and steel product is taken out of the US for any part of the manufacturing process, it becomes foreign source material. However, raw materials such as iron ore, limestone and iron and steel scrap are not covered by the AIS requirement, and the material(s), if any, being applied as a coating are similarly not covered. Non-iron or steel components of an iron and steel product may come from non-US sources. For example, for products such as valves and hydrants, the individual non-iron and steel components do not have to be of domestic origin.

Municipal Castings: Municipal castings are cast iron or steel infrastructure products that are melted and cast. They typically provide access, protection, or housing for components incorporated into utility owned drinking water, storm water, wastewater, and surface infrastructure. They are typically made of grey or ductile iron, or steel. Examples of municipal castings include access hatches, ballast screen, benches, bollards, cast bases, cast iron hinged hatches, cast iron riser rings, catch basin inlets, cleanout/monument boxes, construction covers and frames, curb and corner guards, curb openings, detectable warning plates, downspout shoes, drainage grates, frames & curb inlets, inlets, junction boxes, lampposts, manhole covers, rings & frames, risers, meter boxes, steel hinged hatches, steel riser rings, trash receptacles, tree grates, tree guards, trench grates, and valve boxes.

Structural Steel: Structural steel is rolled flanged shapes, having at least one dimension of their cross-section 3 inches or greater, which are used in the construction of bridges, buildings, ships, railroad rolling

stock, and for numerous other constructional purposes. Such shapes are designated as wide-flange shapes, standard I-beams, channels, angles, tees and zees. Other shapes include H-piles, sheet piling, tie plates, cross ties, and those for other special purposes.

Reinforced Precast Concrete: While reinforced precast concrete may not be at least 50% iron or steel, in this particular case, the reinforcing rebar must be produced in the US and meet the same standards as for any other iron or steel product. Additionally, the casting of the concrete product must take place in the US. If the reinforced concrete is cast at the construction site, the reinforcing rebar is considered to be a construction material and must be produced in the US.

Construction Materials subject to AIS: Construction materials are those articles, materials, or supplies made primarily of iron and steel, that are permanently incorporated into the project, not including mechanical and/or electrical components, equipment and systems. Some of these products may overlap with what is also considered "structural steel". This includes, but is not limited to, the following products: welding rods, wire rod, bar, angles, concrete reinforcing bar, wire, wire cloth, wire rope and cables, tubing, framing, joists, trusses, fasteners, decking, grating, railings, stairs, access ramps, fire escapes, ladders, wall panels, dome structures, roofing, ductwork, surface drains, cable hanging systems, manhole steps, fencing and fence tubing, guardrails, doors, gates, and screens.

Construction Materials not subject to AIS: Mechanical and/or electrical components, equipment and systems are not considered construction materials. The following examples are NOT considered construction materials: gear reducers, drives, mixers, heat exchangers, pumps, motors, blowers/aeration equipment, meters, variable frequency drives (VFDs), valve actuators, controls, supervisory control and data acquisition (SCADA), membrane bioreactor systems, membrane filtration systems, filters, disinfection systems, belt presses, HVAC (excluding ductwork), water heaters, generators, cabinetry and housings, lighting fixtures, electrical conduit, emergency life systems, metal office furniture, shelving, laboratory equipment, and analytical instrumentation.

Items temporarily used during construction, which are removed from the project site upon completion of the project, are not required to be made of U.S. Iron or Steel. For example, trench boxes or scaffolding are not considered construction materials subject to AIS requirements.

Appendix 2 – Sample Certifications Step Certification

The following information is provided as a sample letter of step certification for American Iron and Steel compliance. Documentation must be provided on company letterhead. This is to be provided by each handler (supplier, fabricator, manufacturer, processor, etc.). Each time a step in the manufacturing process takes place, the handler delivers its work along with a certification of its origin.

Date

Company Name
Company Address
City, State Zip

Subject: American Iron and Steel Step Certification for Project (**Insert project name and SRF number**)

I, (company representative), certify that the (melting, bending, coating, galvanizing, cutting, etc.) process for (manufacturing or fabricating) the following products and/or materials shipped or provided for the subject project is in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs.

List of items, products and/or materials:

If any of the above compliance statements change while providing material to this project, we will immediately notify the prime contractor and the engineer.

Signed by company representative

Appendix 2 – Sample Certifications

The following information is provided as a sample letter of the final manufacturer to certify American Iron and Steel compliance for the entire manufacturing process. Documentation must be provided on company letterhead.

Date

Company Name
Company Address
City, State Zip

Subject: American Iron and Steel Certification for Project (Insert project name and SRF number)

I, (company representative), certify that the following products and/or materials shipped/provided to the subject project are in full compliance with the American Iron and Steel requirement of P.L. 113-76 and as mandated in EPA's State Revolving Fund Programs.

List of items, products and/or materials:

If any of the above compliance statements change while providing material to this project, we will immediately notify the prime contractor and the engineer.

Signed by company representative

Appendix 3 – P.L. 113-76, Consolidated Appropriations Act, 2014

The Act states:

Sec. 436. (a)(1) None of the funds made available by a State water pollution control revolving fund as authorized by title VI of the Federal Water Pollution Control Act (33 U.S.C. 1381 et seq.) or made available by a drinking water treatment revolving loan fund as authorized by section 1452 of the Safe Drinking Water Act (42 U.S.C. 300j-12) shall be used for a project for the construction, alteration, maintenance, or repair of a public water system or treatment works unless all of the iron and steel products used in the project are produced in the United States.

(2) In this section, the term “iron and steel products” means the following products made primarily of iron or steel: 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.

(b) Subsection (a) shall not apply in any case or category of cases in which the Administrator of the Environmental Protection Agency (in this section referred to as the “Administrator”) finds that—

(1) applying subsection (a) would be inconsistent with the public interest;

(2) iron and steel products are not produced in the United States in sufficient and reasonably available quantities and of a satisfactory quality; or

(3) inclusion of iron and steel products produced in the United States will increase the cost of the overall project by more than 25 percent.

(c) If the Administrator receives a request for a waiver under this section, the Administrator shall make available to the public on an informal basis a copy of the request and information available to the Administrator concerning the request, and shall allow for informal public input on the request for at least 15 days prior to making a finding based on the request. The Administrator shall make the request and accompanying information available by electronic means, including on the official public Internet Web site of the Environmental Protection Agency.

(d) This section shall be applied in a manner consistent with United States obligations under international agreements.

(e) The Administrator may retain up to 0.25 percent of the funds appropriated in this Act for the Clean and Drinking Water State Revolving Funds for carrying out the provisions described in subsection (a)(1) for management and oversight of the requirements of this section.

(f) This section does not apply with respect to a project if a State agency approves the engineering plans and specifications for the project, in that agency’s capacity to approve such plans and specifications prior to a project requesting bids, prior to the date of the enactment of this Act.

Certification Letter Example

833 Chestnut Street Suite 1200
Chattanooga, TN 37480

Certification of Compliance with American Iron and Steel (AIS) Provisions

November 12, 2014

Subject: ██████████ Construction, Custer Avenue, Lyons, IL

I, ██████████ certify that the following gate valves provided to the ██████████ project in Lyons, IL are in compliance with the American Iron and Steel requirement as mandated in the Environmental Protection Agency's State Revolving Fund Programs and as interpreted by the EPA.

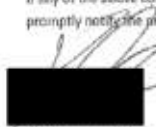
Items, Products and/or Materials:

1. A-2360-19, FL x MJ Resilient Wedge Gate Valve, 6" qty. 1, 8" qty. 1
2. A-2360-23, MJ x MJ Resilient Wedge Gate Valve, 8" qty. 5

The products that are the subject of this certificate were manufactured in Chattanooga, TN.

All gate valve components are cast, machined, assembled and tested in the United States with the exception of fasteners, stem material and two small castings (stuffing box/op nut) which account for less than 10% of the manufacturing cost.

If any of the above compliance statements change while providing material to this project, we will promptly notify the prime contractor or the engineer.


VP Product Management & Marketing

Reference to AIS requirements


Project name/location

Specific items for project

Where the items were manufactured

Signature

Bonus Points for Notary. Not required

 Notarized By: Amy E. Allen
My Commission Expires: 5/27/18

October 12, 2022

Mr. Brent Day
Strack, Inc.
125 Laser Industrial Court
Fairburn, GA 30213
(via e-mail: brentd@strackinc.com)

**RE: Notice to Proceed
West Dallas Collector Sewer Extension – Phase 1
City of Dallas #2020-07
GEFA Loan No. CW2021008
WKD # 20220511.00.AT**

Dear Mr. Day:

On behalf of the City of Dallas you are hereby notified to commence work in accordance with the executed contracts on or before September 19, 2022. Your contract calls for the work to be substantially completed within 280 consecutive calendar days (June 26, 2023) with the date of final payment to be 30 consecutive calendar days thereafter (February 29, 2024). It was noted at the Pre-construction Meeting held on September 13, 2022 that there were schedule concerns for the project and those issues would be discussed at a later date with the City of Dallas to review/approve.

You are requested to acknowledge receipt of the Notice to Proceed of the following page of this letter.

Contact me if you have any questions.

Sincerely,



W.K. Dickson & Co., Inc.

Charles D. Rann, PE
Senior Consultant

Mr. Brent Day
October 12, 2022
Page 2

cc: Brandon Rakestraw, City of Dallas
Mike Jones, PE, WK Dickson & Co., Inc.
Nick McConnell, WK Dickson & Co., Inc.

Receipt of the above Notice to Proceed is hereby acknowledged by Strack, Inc.

Signed:  _____ Date: 10/14/22 _____

Request for Information

Project : **West Dallas Collector**

RFI Number: **003**

Contractor: **Strack, Inc.**

Request Date: **9/28/2022**

Attention: **Charles Rann**

Reference Drawing: **S6 and C19**

Reference Detail: **1/S6 and 1/C19**

Response Requested By: **10/7/2022**

Spec. Section: **NA**

Reason for Request:

- Insufficient Information Alternative Proposal
 Engineering Conflict Other

Action Requested:

- Clarification Approval
 Direction

Probable Effect:

- Increased Cost Increased Time Unknown
 Decreased Cost Decreased Time None

Information Requested:

See attached RFI #4 from Willow.

Contractor Recommended Solution (If Applicable):

N/A

Submitted By: **Brent Day**

- Proceed with Recommended Solution
 Proceed with these Instructions

[See instructions on following page.](#)

REQUEST FOR INFORMATION

Date: 9/20/22

RFI # 4

Willow Construction Inc.
3970 Flint Hill Road
Powder Springs, Georgia 30127
770-222-1555 Fax 770-222-9139

Job: West Dallas Collector

Job No. :2630

FROM: Mitchell Domit

TO: Brent Day, Strack, Inc.

email; BrentD@strackinc.com

INFORMATION NEEDED

Drawing S6 detail 1/S6 gives a wet well invert elevation of 811.33

Drawing C19 detail 1/C19 gives a wet well invert elevation of 809.83

Is the 811.33 elevation that the structural design is based on, correct?

REPLY

Wet well invert elevation shall be 811.33 per Sheet S6. See attached revised Sheets (C19, C20, C21, S2, S6, S7, & S13).

By: _____

Date: _____

2/6/23

THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF CROY ENGINEERING, LLC. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT WRITTEN PERMISSION AND CONSENT.

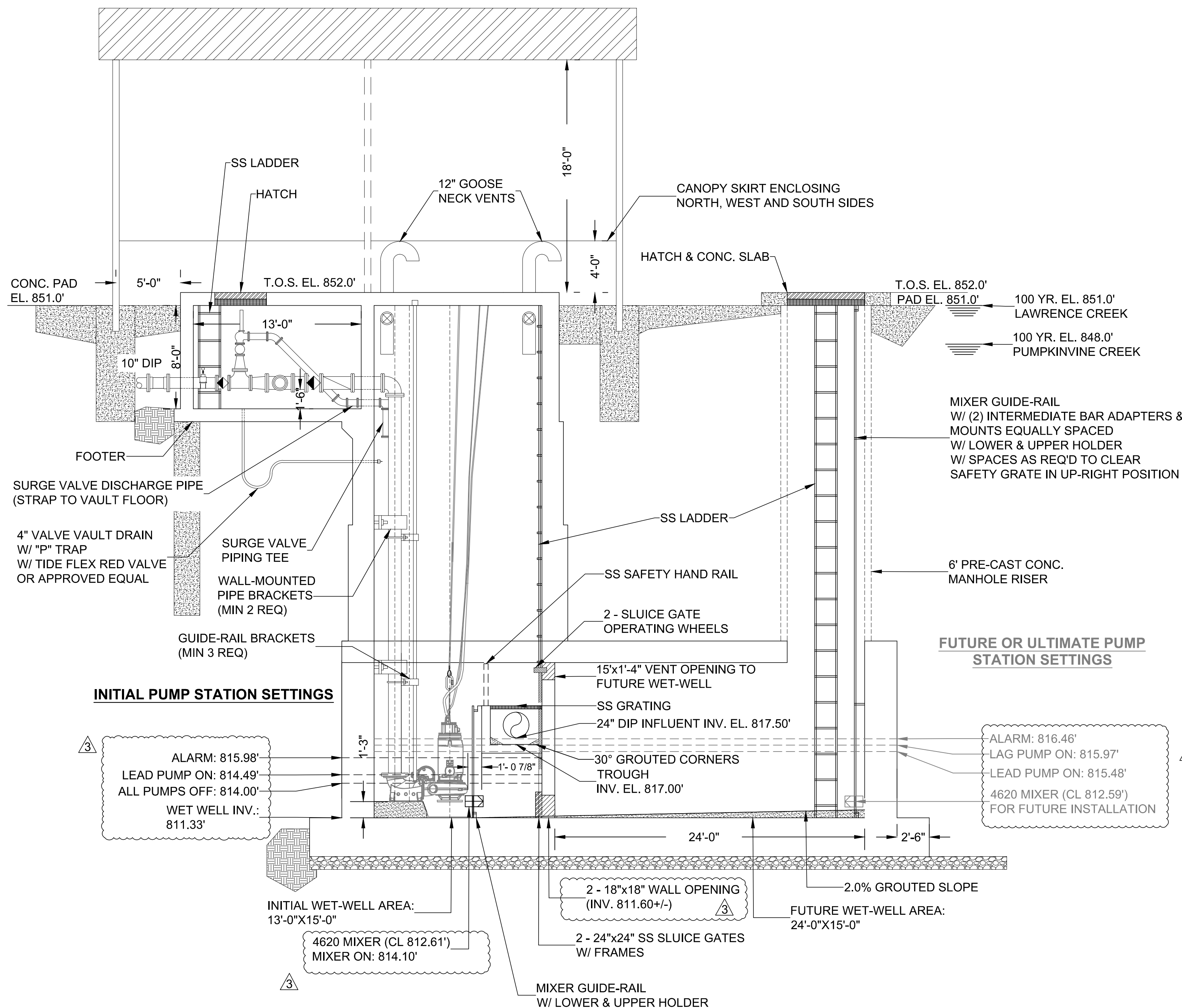
CROY
 N. COBB PKWY., BLDG. 400, SUITE 413
 MARIETTA, GA 30067
 PH (770) 971-5407
 GASOS PER004644
 SCALE AS NOTED
 CROY PRJ. NO. 1919.09
 CROY DWG NO. - N/A

GENERAL NOTES:

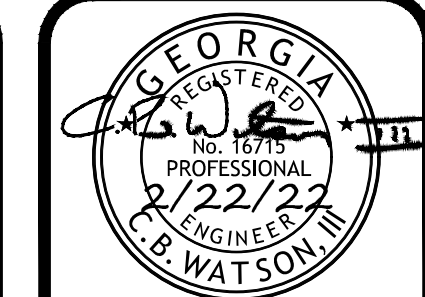
1. THE CONTRACTOR SHALL SUPPLY THE FOLLOWING SPARE PARTS TO THE CITY OF DALLAS: 1-SET UPPER & LOWER SEALS, 1-SET WEAR RINGS, 1-SET UPPER & LOWER BEARINGS, AND 1-SPECIFIED IMPELLER.
 2. THE CONTRACTOR SHALL FURNISH 2 SPARE 15A BREAKERS IN THE CONTROL PANEL AND 3 SPARE FUSES OR FUSIBLE LINKS FOR ANY FUSES OR FUSIBLE LINKS IN THE CONTROL PANEL, ATS, GENERATOR, AND SCADA CABINETS.
 3. THE CONTRACTOR SHALL PROVIDE 2 LEVEL TRANSDUCER LEVEL CONTROL SYSTEMS; 1 PRIMARY LEVEL TRANSDUCER LEVEL CONTROL SYSTEM IN THE INITIAL WET-WELL AREA WITH 1 SET OF FLOOR SWITCHES FOR HIGH WATER & LOW WATER ALARM, AND 1 SECONDARY LEVEL TRANSDUCER LEVEL CONTROL SYSTEM FOR LEVEL MONITORING IN THE FUTURE WET WELL AREA.
 4. UPON INSTALLATION, ALL PUMPS SHALL BE CHECKED BY A MANUFACTURER'S REP. FOR PROPER ROTATION, PUMPING CAPACITY, AMPERAGE DRAWN, LACK OF VIBRATION, AND OTHER CHECKS AS MAY BE DEEMED NECESSARY TO ASSURE PROPER OPERATION.
 5. IN THE PRESENCE OF A REP. OF THE LOCAL GOVERNING DEPT. OR AUTHORITY ALL SUBMERSIBLE PUMPS SHALL BE PULLED OUT OF AND REINSTALLED IN THE WET-WELL TO ASSURE PROPER CLEARANCES FOR EASY REMOVAL OF THE PUMPS FOR MAINTENANCE.
 6. FIXED LIFT STATION WET-WELL ACCESS LADDERS SHALL BE PROVIDED AS SHOWN.
 7. THE CONTRACTOR SHALL FURNISH A 1 YEAR WARRANTY ON THE LIFT STATION AND ALL APPURTENANCES TO THE CITY OF DALLAS.
 8. BEFORE THE FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE THE CITY OF DALLAS 6 SETS OF OPERATION & MAINTENANCE MANUALS AND "AS-BUILT" DRAWINGS TO INCLUDE, AS A MINIMUM, THE FORCEMAIN LAYOUT, AIR/ AIR AND VACUUM RELIEF VALVE LOCATIONS & DETAILS, DETAILED WIRING SCHEMATICS, AND A LIST OF NAMES, ADDRESSES & TELEPHONE NUMBERS OF THE CONTRACTOR, EACH EQUIPMENT REP. & THE DESIGN ENGINEER. OPERATION AND MAINTENANCE MANUAL TO BE BOUND IN A STANDARD 3-RING BINDER AND ORGANIZED WITH DIVIDERS FOR THE ABOVE SPECIFIED INFORMATION.
- START-UP WILL NOT BE SCHEDULED UNTIL THE CITY OF DALLAS RECEIVES FIELD-LOCATED "AS-BUILTS" AND OPERATION & MAINTENANCE MANUALS.**
9. THE CONTRACTOR SHALL PAINT ALL LIFT STATION PIPING WITH A 5 MIL MINIMUM COATING OF TWO-PART EPOXY ENAMEL SUITABLE FOR EXPOSURE TO SEWERAGE. COATING SHALL BE APPLIED OVER AN INTEGRAL, AND MANUFACTURER'S RECOMMENDED PRIMER COATING. NO FINISH COATING SHALL BE APPLIED TO "BARE" METAL.

PUMP STATION NOTES:

1. THE DESIGN AND LAYOUT OF THIS LIFT STATION IS BASED ON SUBMERSIBLE PUMPS MANUFACTURED BY FLYGT CORPORATION.
 - DESIGN PUMPING RATE = 4200 GPM @ 124.0' TDH
 - STATIC HEAD = 78.8'
 - PUMPING IN A PARALLEL 10" AND 12" FORCEMAIN
 - HAZEN-WILLIAMS C = 140
 2. UNDER INITIAL CONDITIONS, THIS PUMP STATION IS DESIGNED FOR SIMPLEX OPERATIONS (i.e. ONE PUMP OPERATING ALONE SHALL BE CAPABLE OF HANDLING THE INITIAL PEAK FLOW(S) WITH THE PUMP MOTOR RUNNING AT 45 Hz AND PUMPING THROUGH A SINGLE 12" FORCEMAIN.
 3. THE INITIAL PUMP CONTROLS SHALL ALLOW FOR:
 - OPERATION OF SEQUENTIAL ALTERNATING STARTS OF EACH OF THE PUMPS AND, IF REQUIRED BY OPERATIONAL CONDITIONS OF THE STATION, THE VARIABLE SPEED MOTOR OPERATIONS CAN SPEED UP ABOVE 45 Hz.,
 - OPERATION OF 1 MIXER IN THE INITIAL WET-WELL.
 - OPERATION OF 1 MOTOR OPERATED PLUG VALVE ON THE 10" FORCEMAIN WILL BE "OPEN-CLOSED-AUTO" HAND CONTROLS AND INDICATOR LIGHTS. THE 10" PLUG VALVE WILL REMAIN IN THE "CLOSED" POSITION DURING INITIAL PUMP STATION OPERATIONS.
 - THE TRIPLEX PUMP IS IN THE INITIAL WET-WELL AS AN EMERGENCY BACK-UP PUMP, BUT WILL OPERATE WITHIN THE NORMAL ROTATION OF THE INITIAL PUMPING REGIME.
 4. THE FUTURE PUMP CONTROLS SHALL ALLOW FOR:
 - OPERATION OF THE FUTURE LIFT STATION (BOTH INITIAL & FUTURE WET-WELL AREA ACTIVE) AS A DUPLEX PUMP STATION AND VARIABLE SPEED MOTOR OPERATION WITH THE PUMPING RATE FOLLOWING THE INFLOW RATE INTO THE STATION ONCE FUTURE PUMP "START" IS CALLED FOR.
 - OPERATION OF 1 MIXER IN THE INITIAL WET-WELL AND OPERATION OF 1 MIXER IN THE FUTURE WET-WELL.
 - OPERATION OF 1 MOTOR OPERATED PLUG VALVE ON THE 10" FORCEMAIN WILL BE "OPEN-CLOSED-AUTO" HAND CONTROLS AND INDICATOR LIGHTS. THE 10" PLUG VALVE POSITION DURING FUTURE PUMP STATION OPERATIONS, WILL BE DETERMINED BY THE OPERATOR AND THE SCADA SYSTEM.
 - THE TRIPLEX PUMP IS IN THE INITIAL WET-WELL AS AN EMERGENCY BACK-UP PUMP, BUT WILL OPERATE WITHIN THE NORMAL ROTATION OF THE INITIAL PUMPING REGIME.
- ADDITIONAL OFFSITE CAPACITY IS NOT PROVIDED IN THE TRIPLEX PUMP DESIGN. THE TRIPLEX DESIGN IS FOR EMERGENCY PUMPING OPERATIONS ONLY.**
5. ALL PUMP STATION PIPING, VALVE PIT PIPING, YARD PIPING TO THE ON-SITE MAG-METERS AND FITTINGS 4" Ø ARE TO BE BLACK IRON WITH 2-PART EPOXY COATING.
 6. VALVES AND FITTINGS IN THE VALVE PIT TO BE PROPERLY ANCHORED TO CONCRETE SUPPORTS WITH METAL STRAPS (1/8" THICK STEEL MINIMUM) OR BASE PIPE FITTINGS.
 7. SEE STRUCTURAL DETAILS FOR ADDITIONAL INFORMATION ON THE STATION LAYOUT AND CONSTRUCTION AND MATERIAL REQUIREMENTS.
 8. LIFT STATION PUMP SIZING BASED ON ITT-FLYGT CORPORATION. SEE FLYGT STANDARD DETAIL SHEET FOR ADDITIONAL PUMP DETAILS.



LIFT STATION SECTION VIEW
 SCALE: 3/16" = 1'-0"



DESIGN: CBW
 DRAWN: PEB
 CHECK: CBW

BAR BELOW IS 1" LONG FOR SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

PROJECT NUMBER	SCALE	DATE	REVISION	DATE
21-002	3/16"=1'-0"	2-18-22		
			ISSUED FOR BID AND PERMITTING	2-22-22
			UPDATED WET WELL DEPTH	2-01-23

EDISON ENGINEERING GROUP
 MUNICIPAL ENVIRONMENTAL-LAND PLANNING
 2203 Charles Hardy Parkway • Dallas, GA 30157
 Office (770) 505-8115

WEST DALLAS COLLECTOR
 SEWER EXTENSION - PHASE I
 LIFT STATION DETAIL &
 SECTION

SHEET NO.
C19

THESE PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED, CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF CROY ENGINEERING, LLC. NOR ARE THEY TO BE ASSIGNED TO ANY PARTY WITHOUT WRITTEN PERMISSION AND CONSENT.

CROY
 N. COBB PKWY., BLDG. 400, SUITE 413
 MARIETTA, GA 30067
 PH: (770) 971-5407
 GASOS PER004644
 SCALE: AS NOTED
 CROY PRJ NO. 1919.09
 CROY DWG NO. - N/A



DESIGN: CBW
 DRAWN: PEB
 CHECK: CBW

BAR BELOW IS 1" LONG FOR SCALES SHOWN ON THIS SHEET. IF NOT 1" LONG ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

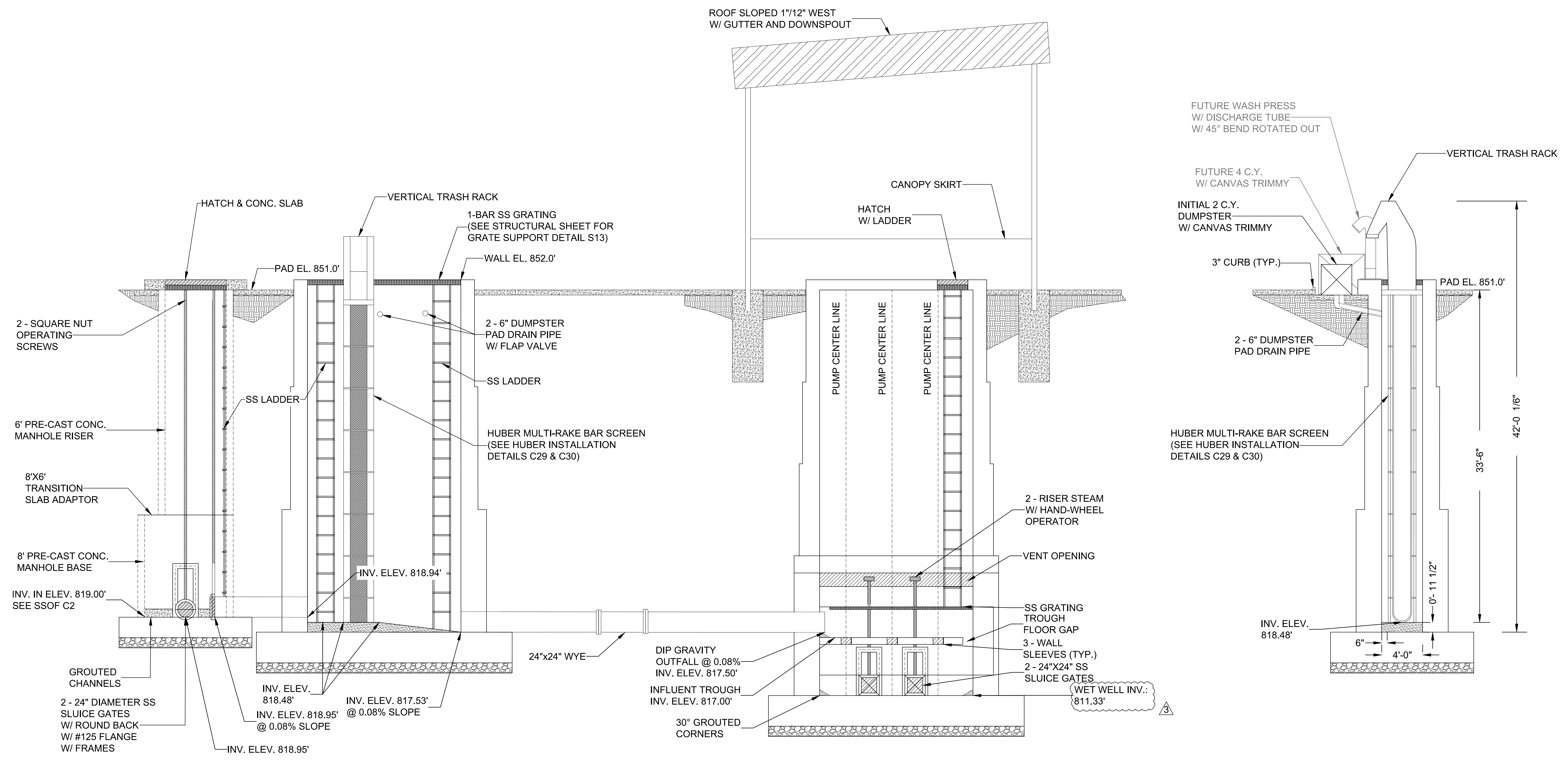
PROJECT NUMBER	SCALE	DATE	REVISION	DATE
21-002	3/16"=1'-0"	2-18-22		2-18-22
			0	2-22-22
			3	2-01-23

EDISON ENGINEERING GROUP
 MUNICIPAL/ENVIRONMENTAL/LAND PLANNING
 2203 Charles Hardy Parkway • Dallas, GA 30157
 Office (770) 505-8115

WEST DALLAS COLLECTOR
 SEWER EXTENSION - PHASE I
 LIFT STATION DETAIL &
 SECTION

SHEET NO.
C20

ROOF SLOPED 1" / 12" WEST
 W/ GUTTER AND DOWNSPOUT



2
 C20
LIFT STATION TWISTED SECTION VIEW
 SCALE: 3/16" = 1'-0"

3
 C20
SCREEN SECTION VIEW
 SCALE: 3/16" = 1'-0"

P:\Municipal\1919 Edison Engineering\1919.011 West Dallas Sewer\Engineering\Design\CNST_PLANS_LS (WW Depth Revision).dwg, 2/6/2023 5:23:42 PM

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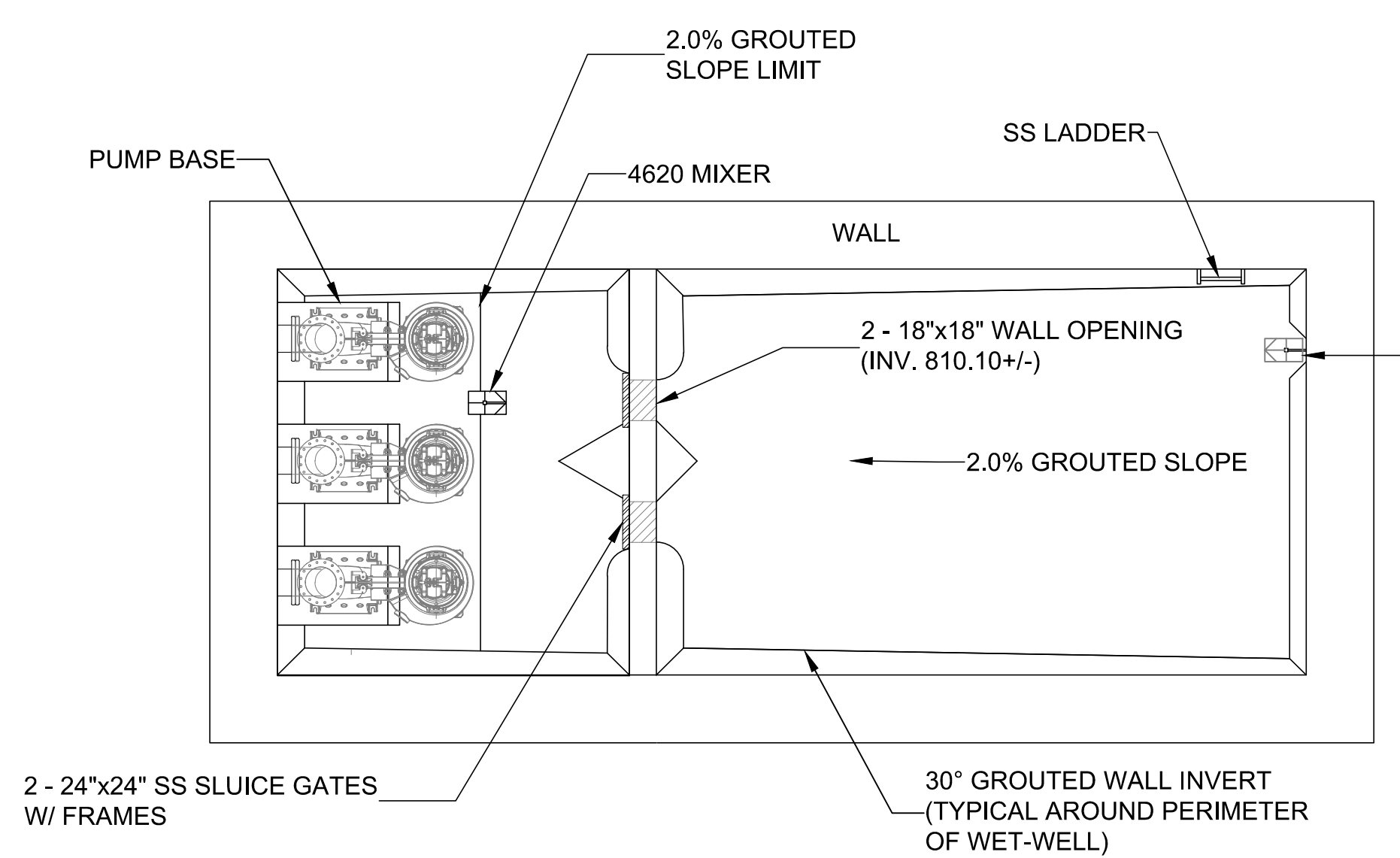
CROY
 N. COBB PKWY., BLDG. 400, SUITE 413
 MARIETTA, GA 30067
 PH: (770) 971-5407
 GASOS PER004644
 SCALE: AS NOTED
 CROY PRJ NO. 1919.09
 CROY DWG NO. - N/A

PROFESSIONAL ENGINEER
 GEORGIA
 No. 16715
 2/22/22
 B. WATSON

DESIGN: CBW
 DRAWN: PEB
 CHECK: CBW

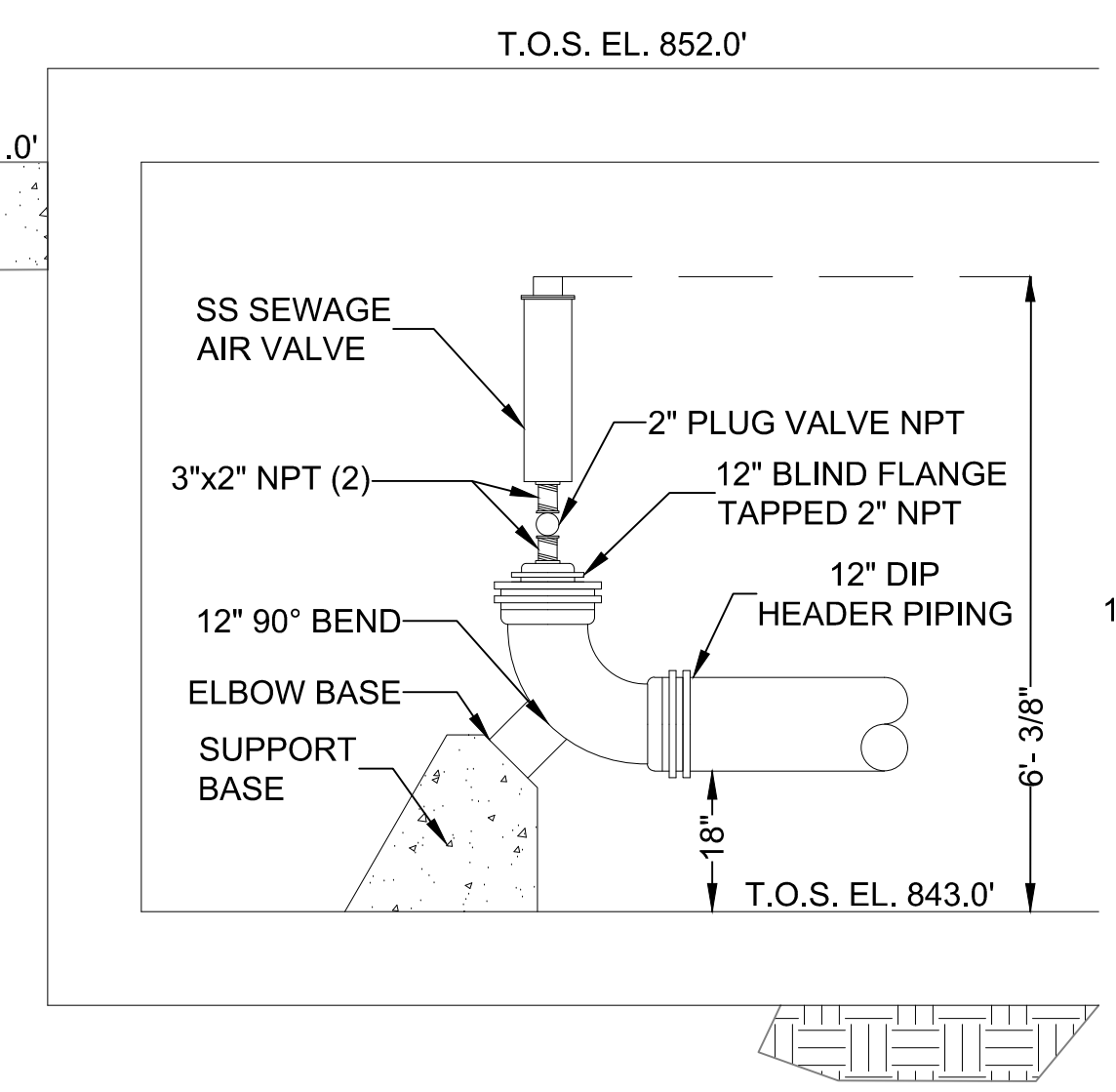
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PROJECT NUMBER	SCALE	DATE	REVISION	DATE
21-002	AS SHOWN	2-18-22		
			ISSUED FOR BID AND PERMITTING	2-22-22
			UPDATED WET WELL DEPTH	2-01-23

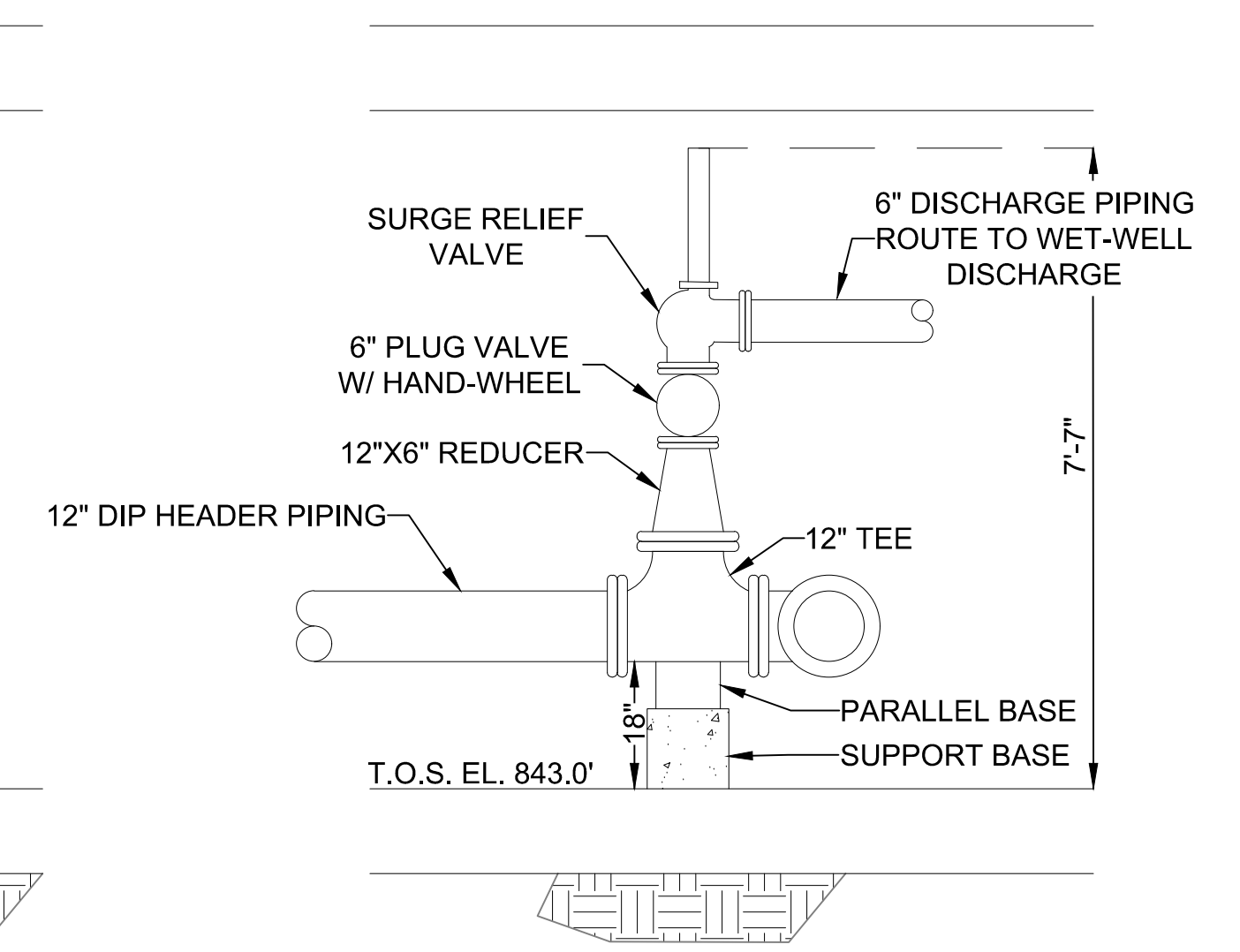


LIFT STATION PLAN VIEW AT ELEV. 814.00'
 SCALE: 3/16" = 1'-0"

4620 MIXER FOR FUTURE INSTALLATION (BY OTHERS; OR NOT IN CONTRACT)



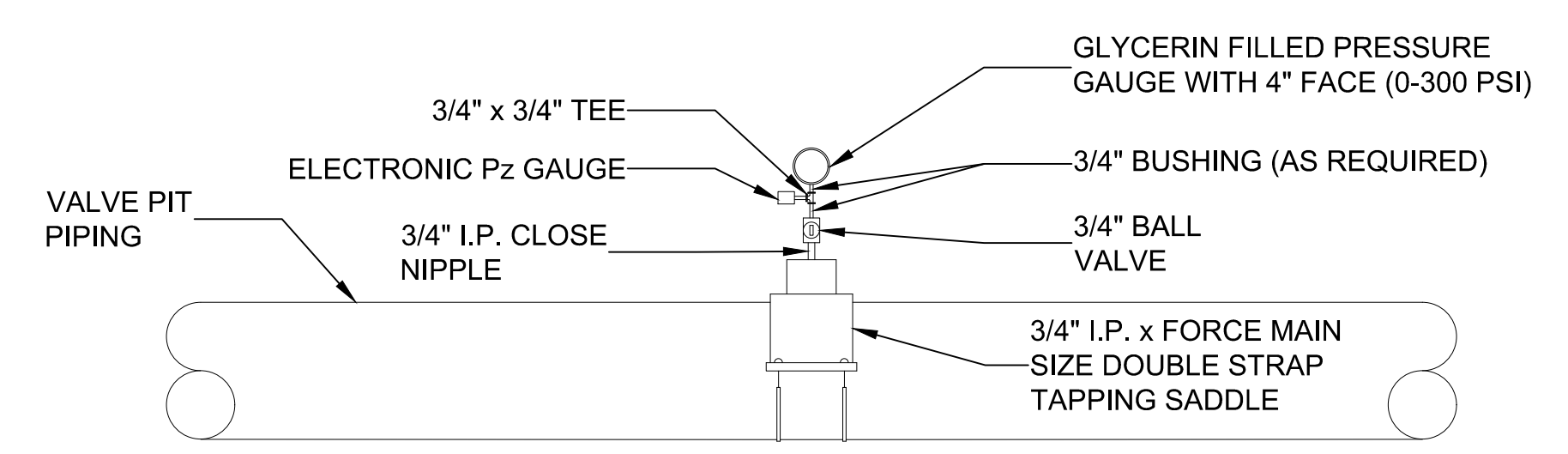
AIR AND VACUUM VALVE ASSEMBLY AT LIFT STATION VALVE VAULT
 SCALE: N.T.S.



SURGE VALVE ASSEMBLY AT LIFT STATION VALVE VAULT
 SCALE: N.T.S.

SEE S1 FOR BASE ELBOW/ TEE CONC. SUPPORT DETAILS.

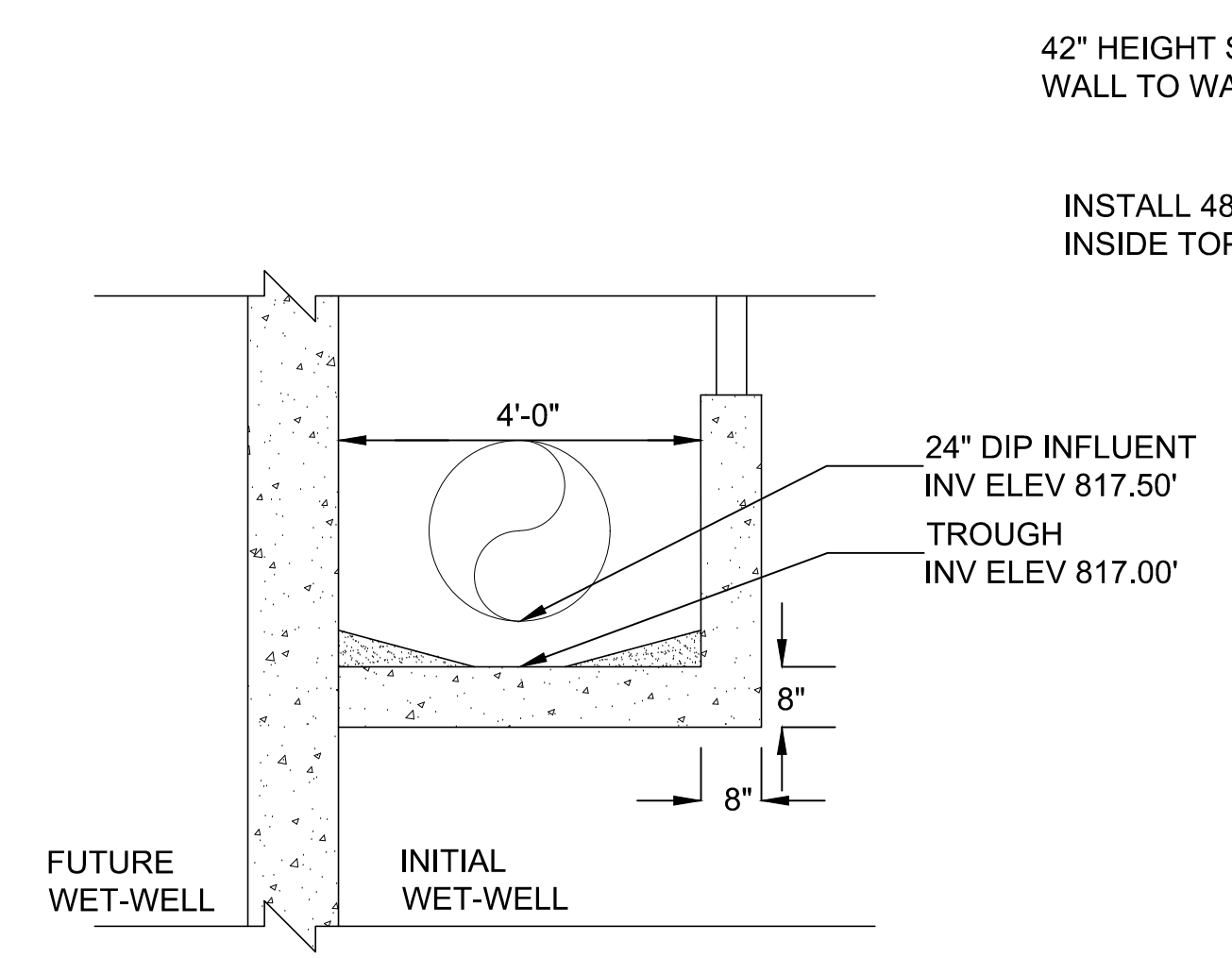
SEE S2 SHEET FOR GRATE SUPPORT DETAILS.



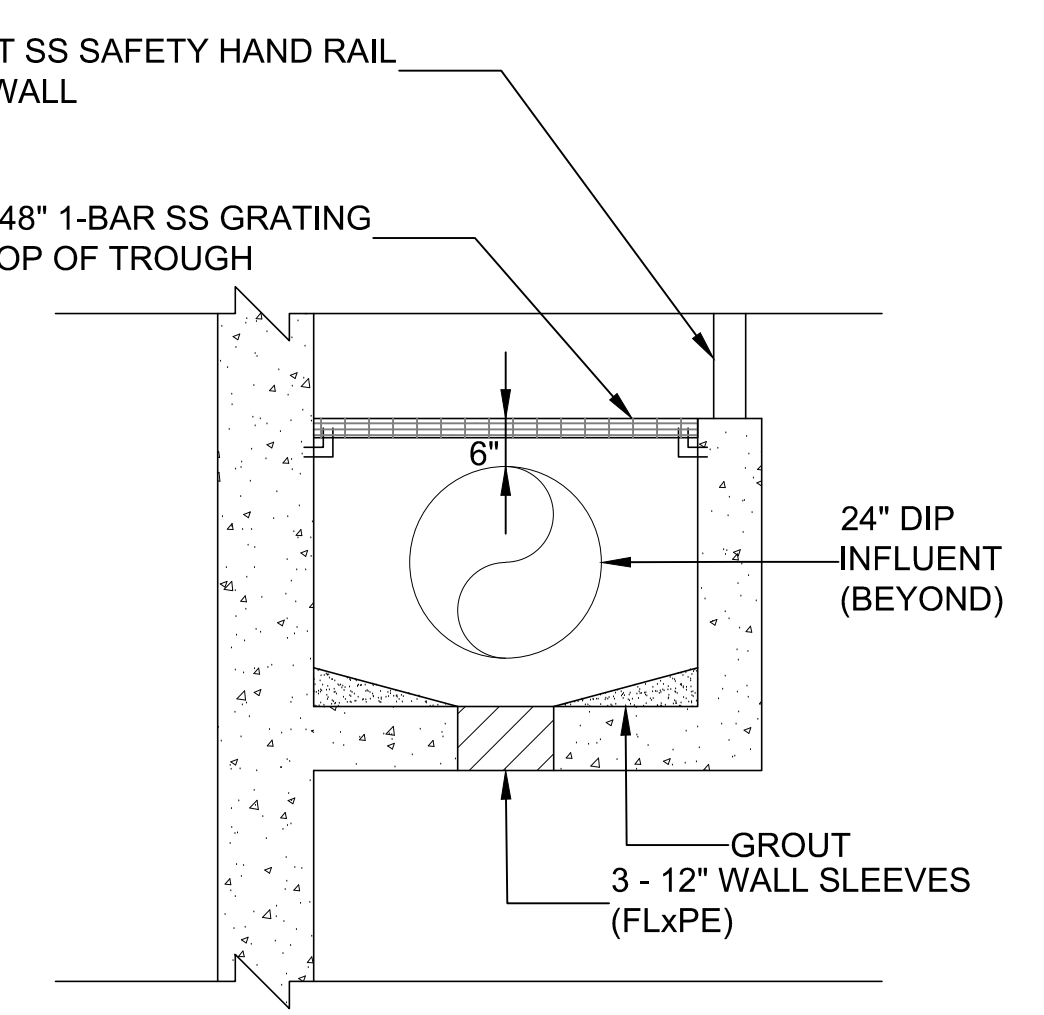
PRESSURE GAUGE DETAIL
 SCALE: N.T.S.

INSTALL AT A 45° ANGLE TO SEE PRESSURE GAUGE FACE FROM TOP OF VAULT.

PRESSURE GAUGE AND ELECTRONIC PRESSURE GAUGE SHALL BE PROVIDED WITH A DIAPHRAGM SEAL AT EACH CONNECTION.



TROUGH ENTRANCE DETAIL
 SCALE: 1/2" = 1'-0"



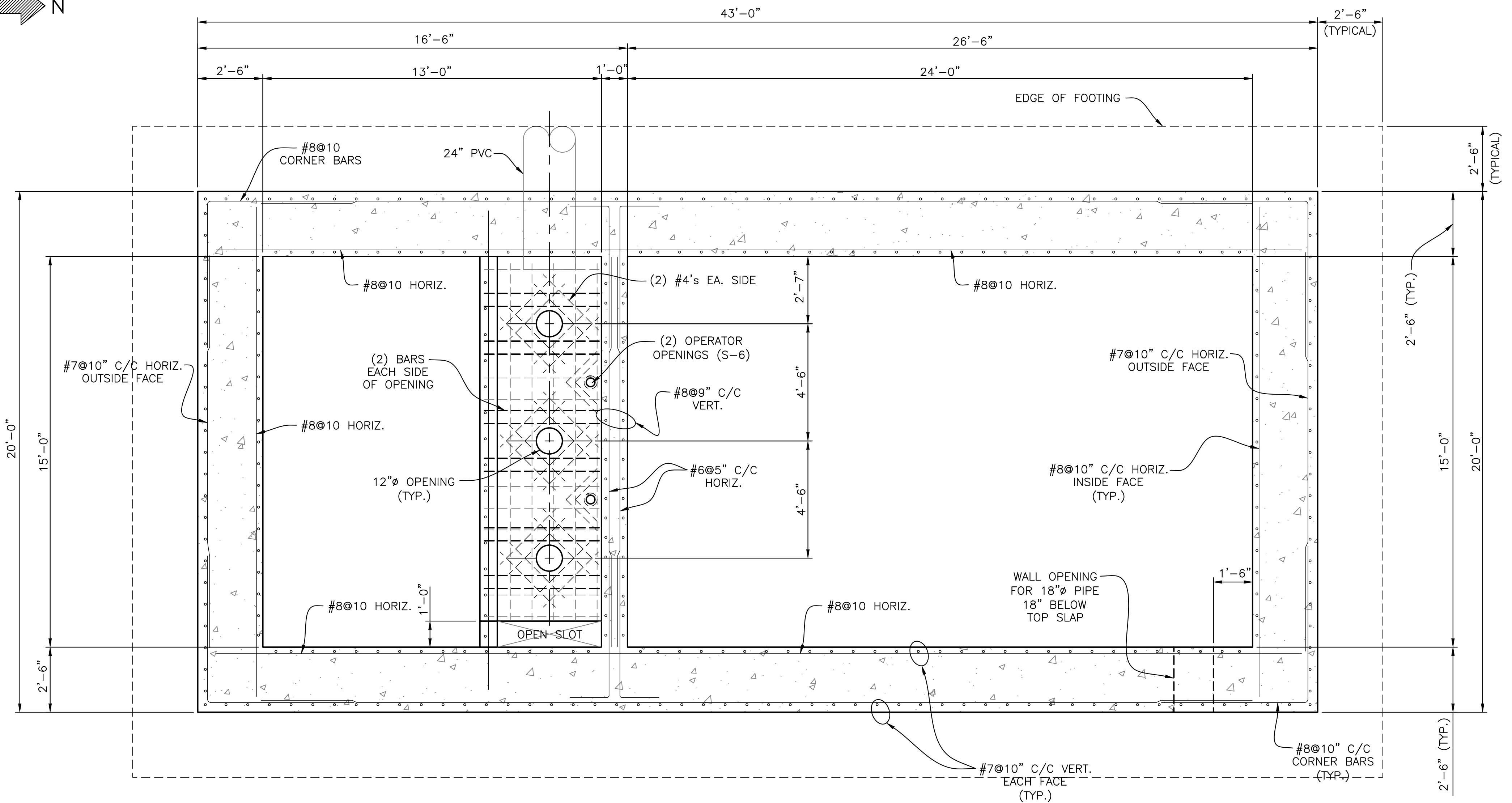
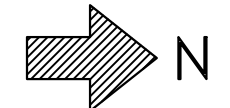
TYPICAL TROUGH SECTION DETAIL
 SCALE: 1/2" = 1'-0"

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WEST DALLAS COLLECTOR SEWER EXTENSION - PHASE I
 LIFT STATION DETAIL & SECTION

SHEET NO.
C21

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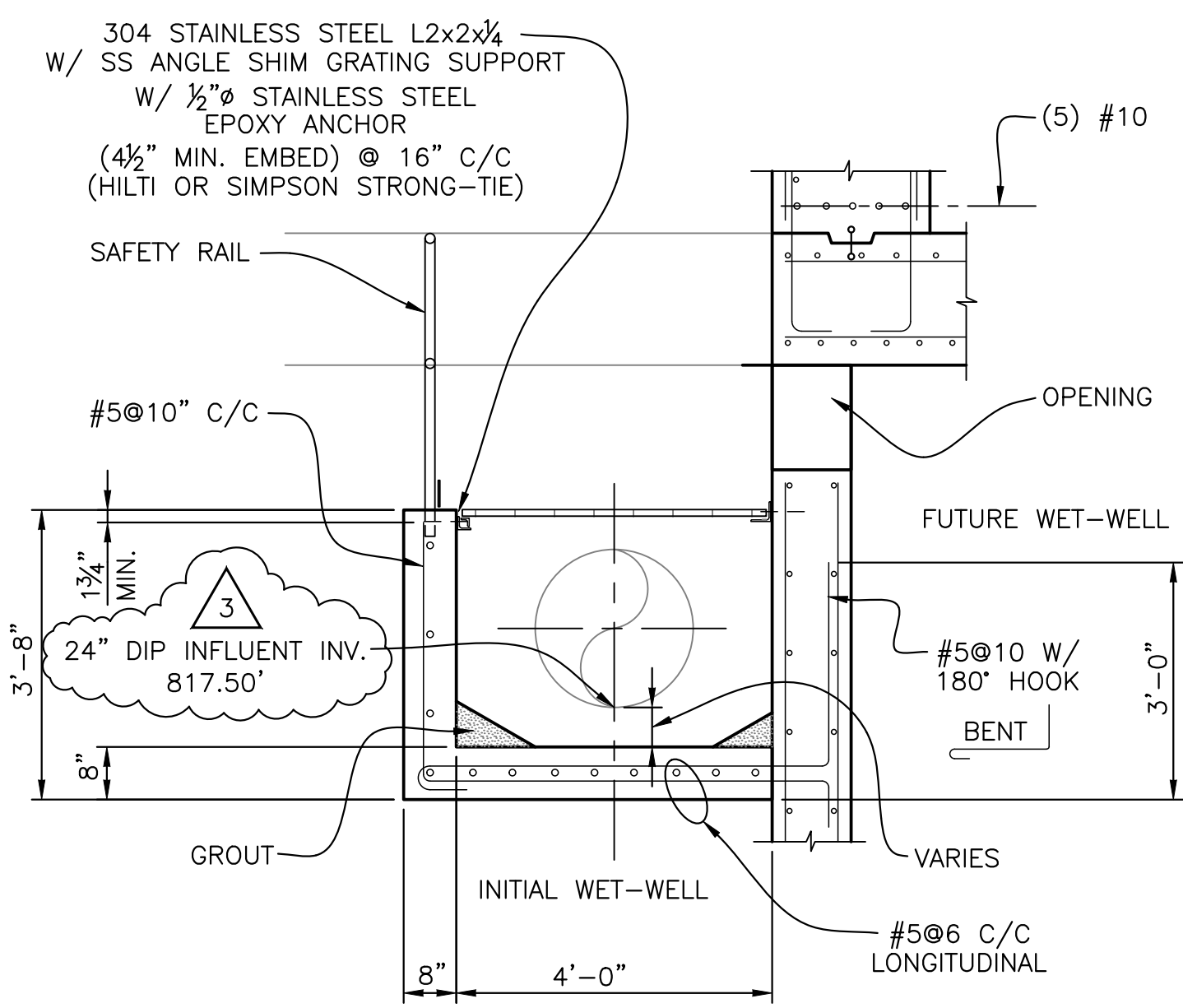


PLAN - LIFT 1
SCALE: 3/8"=1'-0"

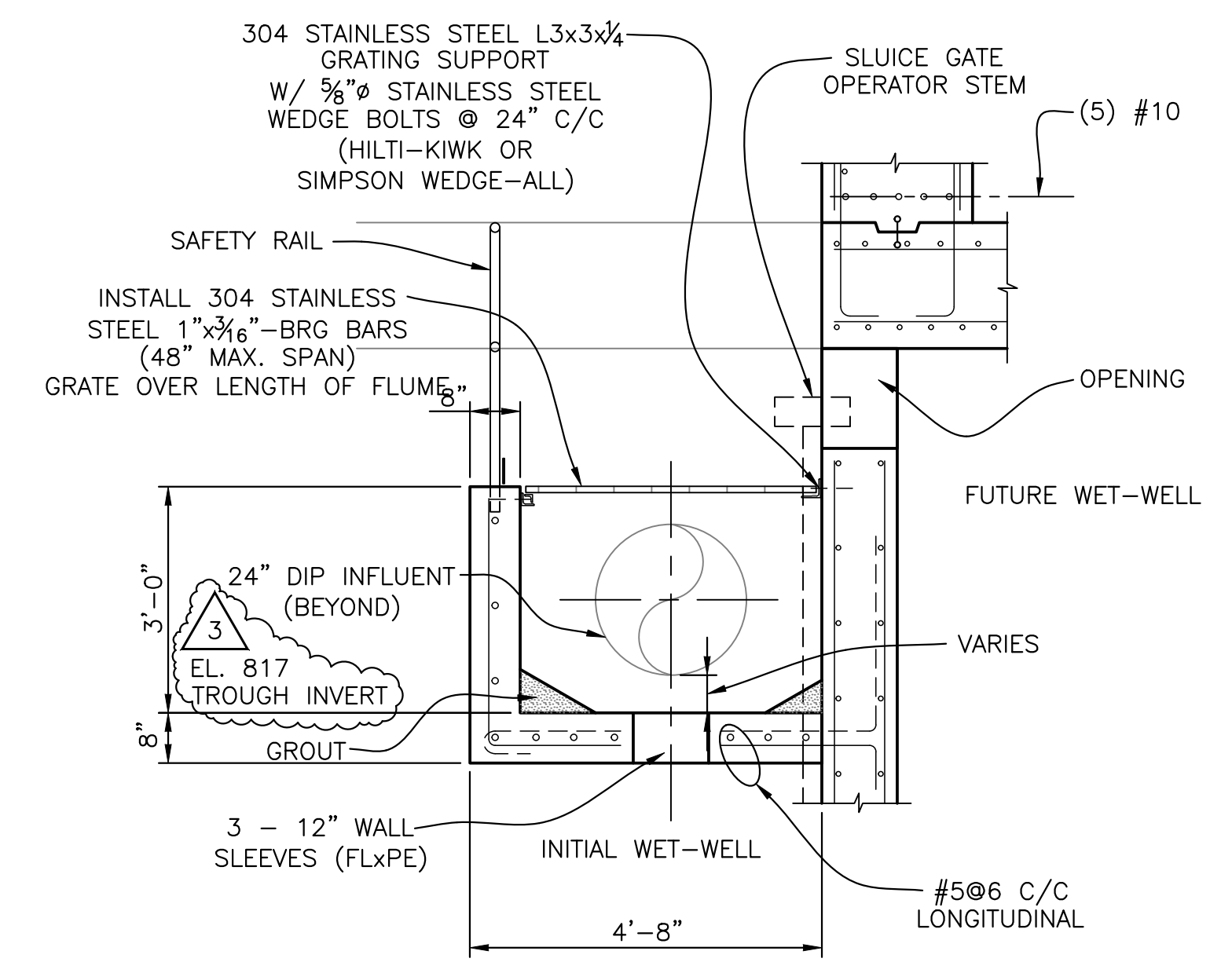
TENSION LAP SPLICE LENGTHS
TABLE 1

BAR SIZE	f'c = 3000 PSI		f'c = 4000 PSI	
	TOP BARS CLASS	OTHER BARS CLASS	TOP BARS CLASS	OTHER BARS CLASS
#3	21	27	18	24
#4	28	36	25	32
#5	36	47	31	41
#6	43	56	37	48
#7	62	81	54	71
#8	71	92	62	80
#9	80	104	70	92
#10	90	117	78	102
#11	100	130	87	114

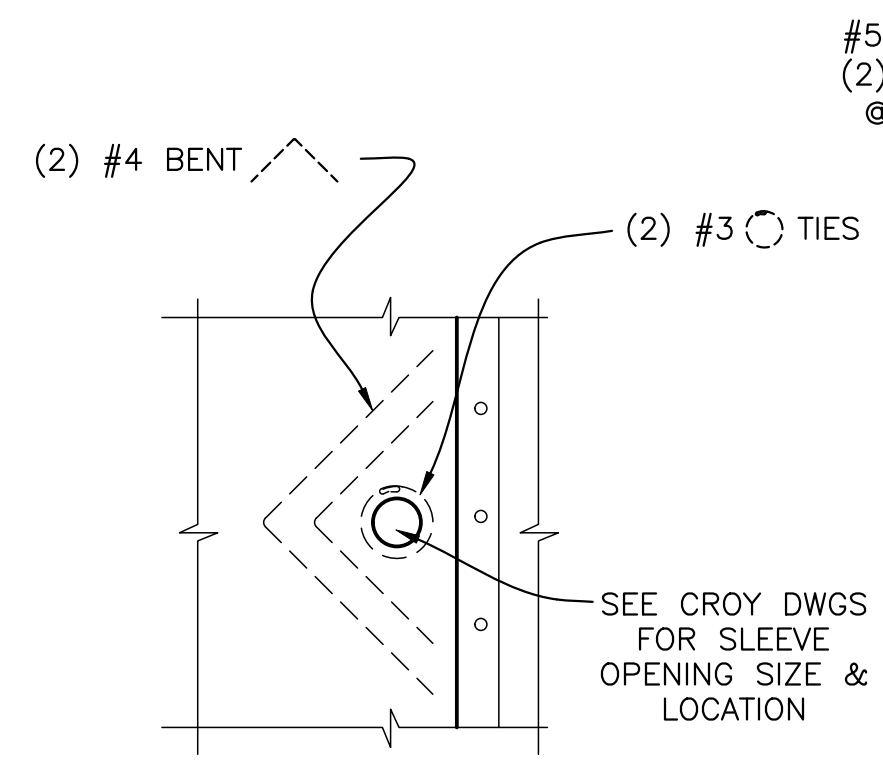
NOTES:
1. CONCRETE NORMAL WEIGHT, Fy = 60 KSI.
2. BARS NOT EPOXY COATED.
3. USE THIS TABLE FOR BEAMS, COLUMNS AND SLABS.
4. TENSION DEVELOPMENT LENGTH - CLASS "A" LAP SPLICE.



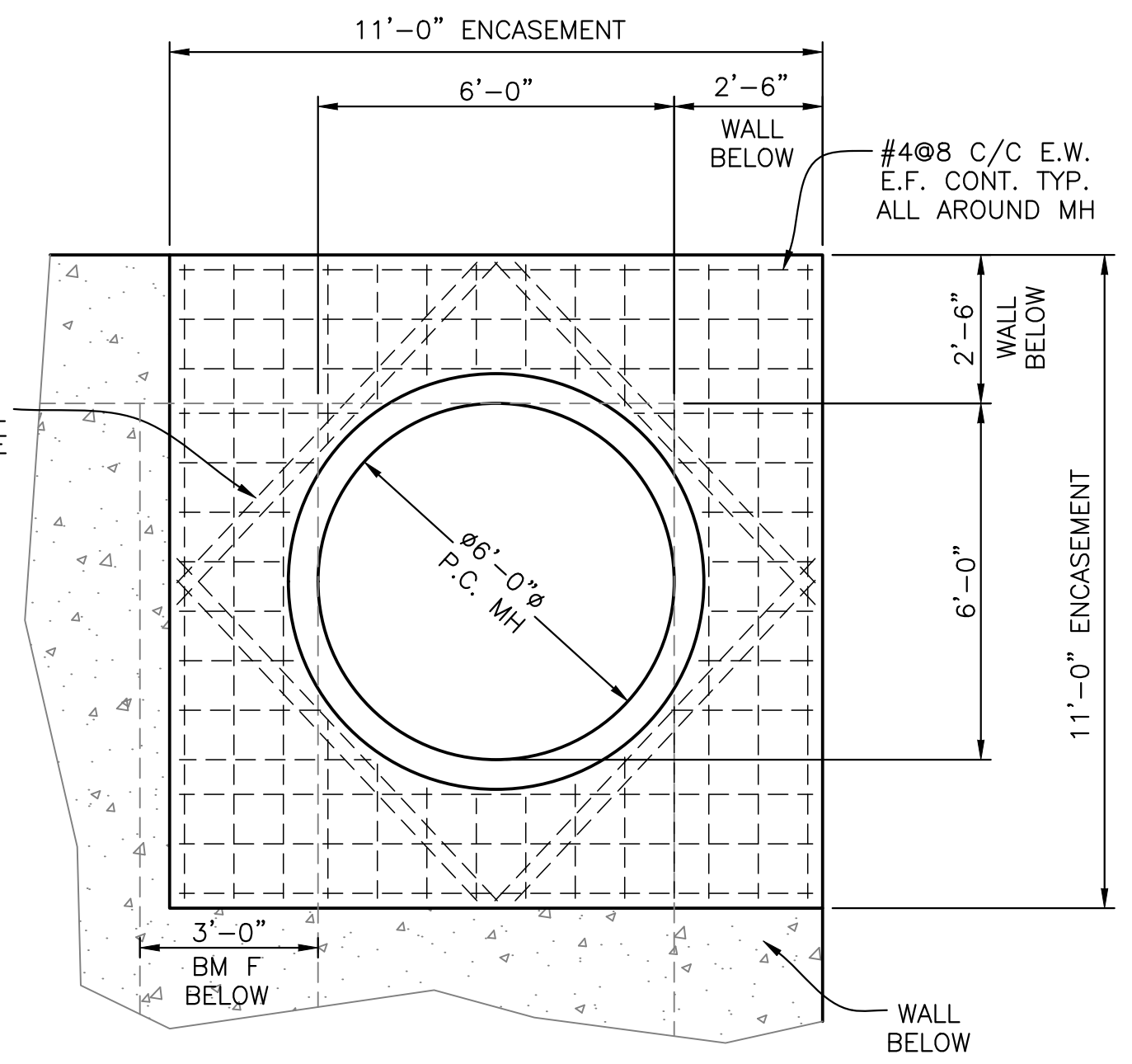
FLUME ENTRANCE DETAIL
SCALE: 1/2"=1'-0"



TYPICAL FLUME DETAIL
SCALE: 1/2"=1'-0"



GATE STEM SLEEVE
SCALE: 3/4"=1'-0"



A S2 ENCASEMENT PLAN
SCALE: 3/8"=1'-0"

LONG & ARNOLD ENG., L.L.C.
Structural Engineers
58 FLINN INDUST. DRIVE
RINGGOLD, GA 30736

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3	UPDATED WET WELL DEPTH	2-01-23

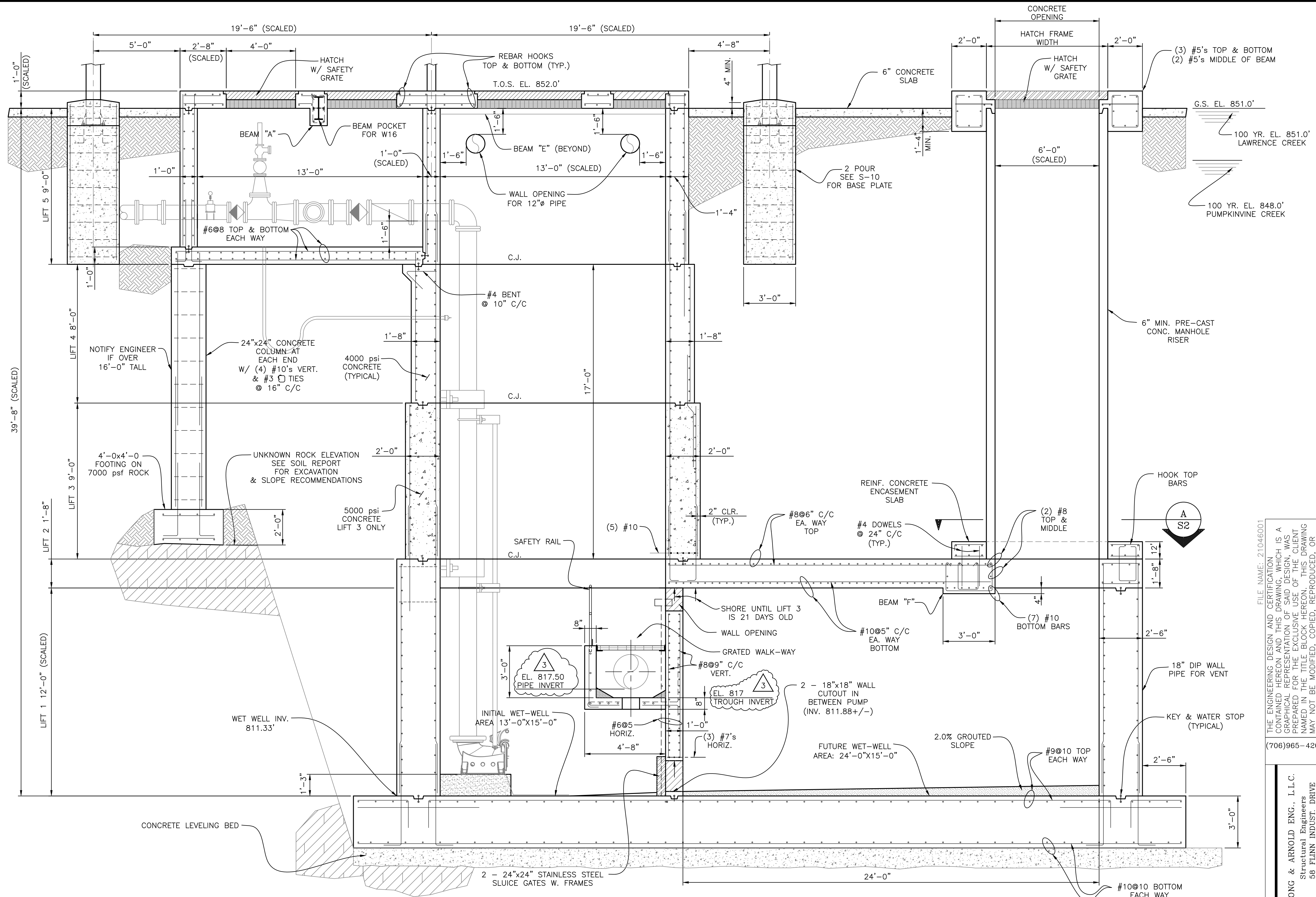
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WEST DALLAS COLLECTOR SEWER EXTENSION - PHASE I
LIFT STATION PLAN & DETAILS

SHEET NO.
S2

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1 SECTION
S6 SCALE: 3/8"=1'-0"

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 Structural Engineers
 58 FLINN INDUST. DRIVE
 RINGGOLD, GA 30736



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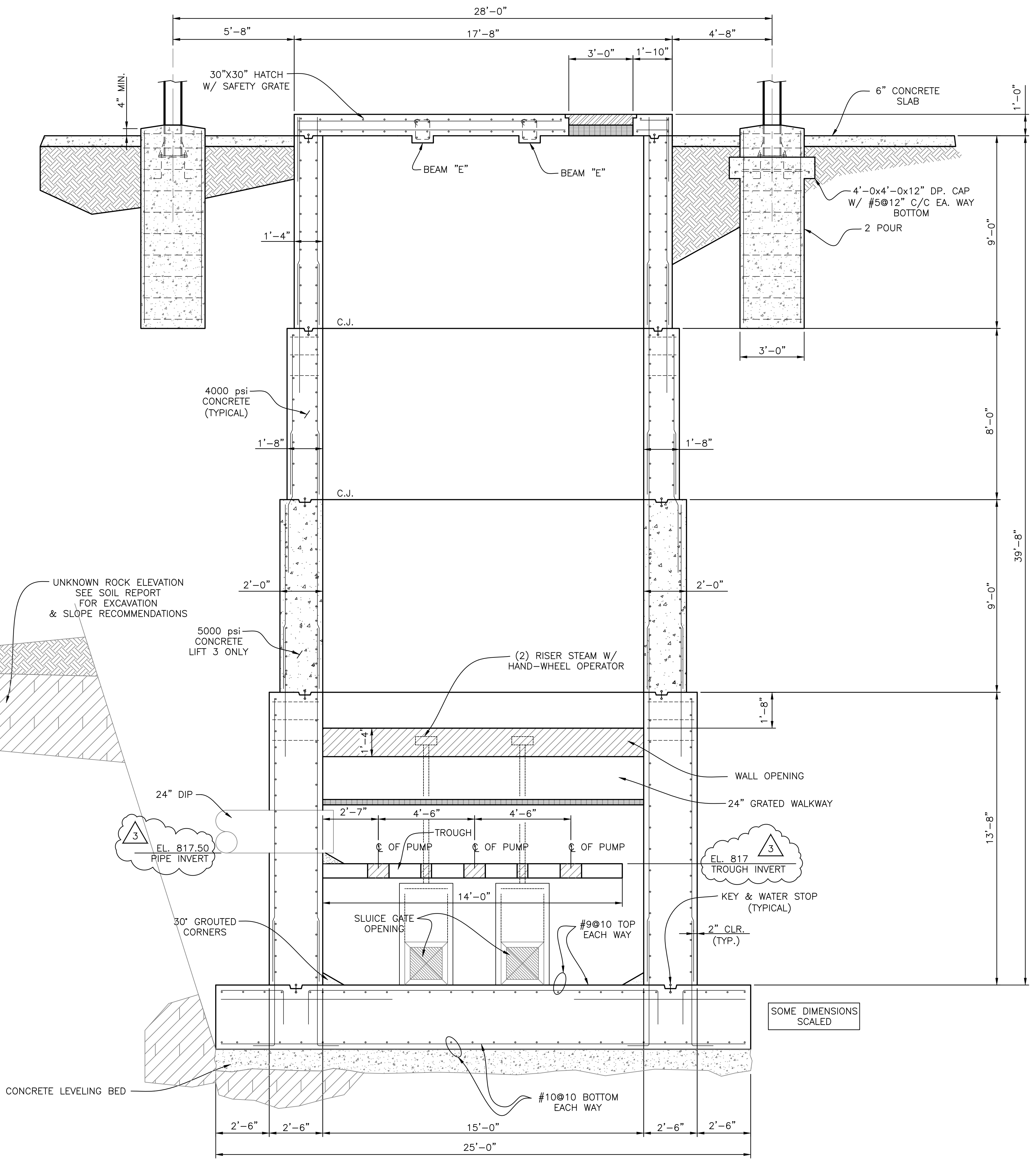
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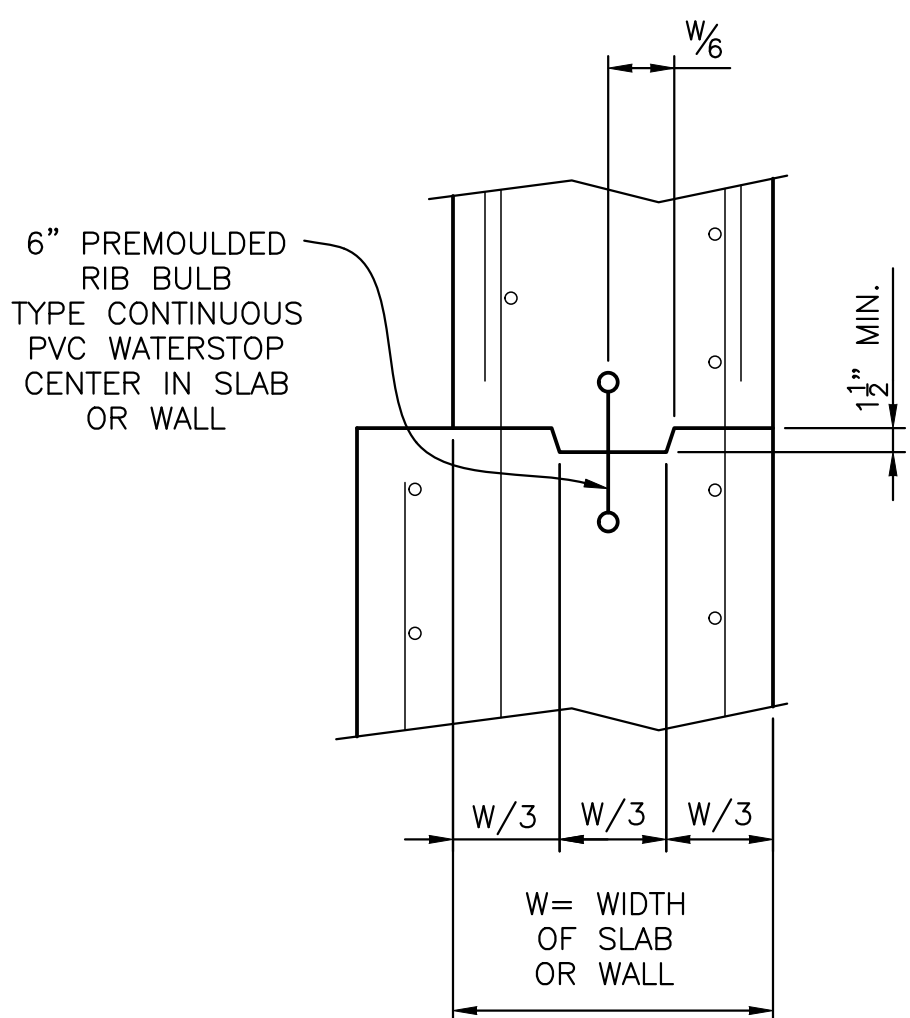
WEST DALLAS COLLECTOR SEWER EXTENSION - PHASE I
LIFT STATION SECTION

SHEET NO.
S6

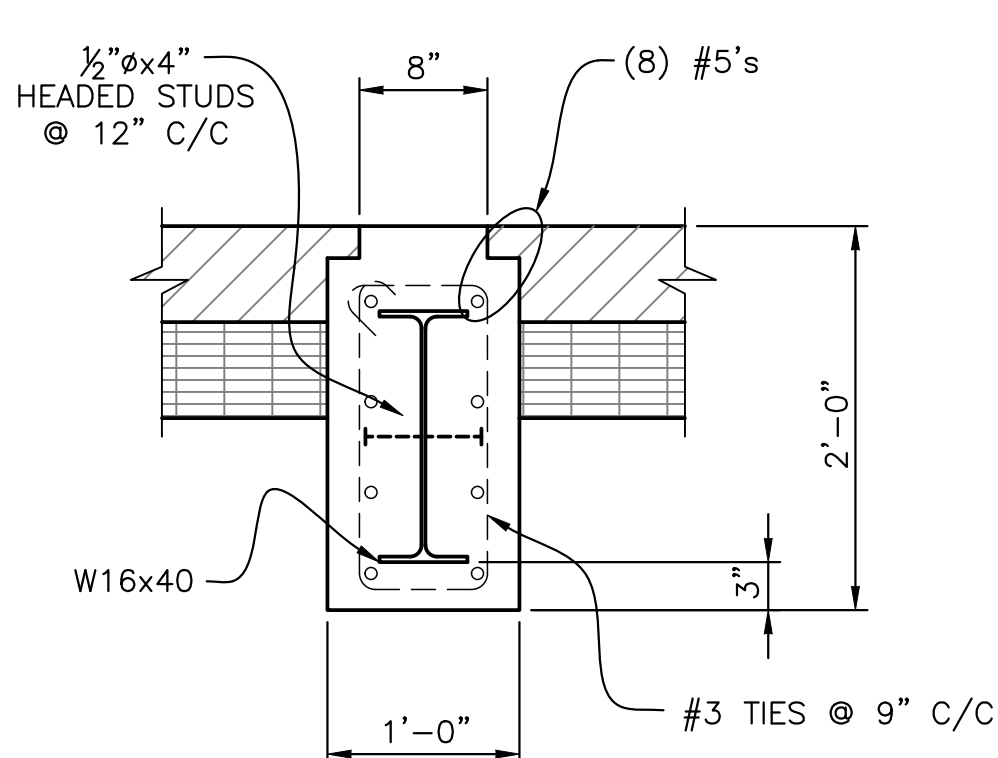
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1 SECTION
S7 SCALE: 3/8"=1'-0"



TYP. KEYED CONSTRUCTION JOINT WITH WATERSTOP DETAIL
SCALE: N.T.S.



2 SECTION (BM A)
S7 SCALE: 1"=1'-0"

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	FILE NAME: 21046001	

S7

SHEET NO.

**WEST DALLAS COLLECTOR
SEWER EXTENSION - PHASE I**

LIFT STATION SECTION

E

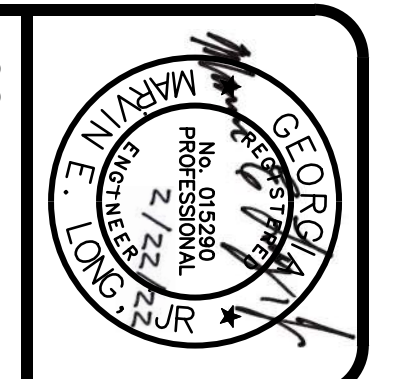
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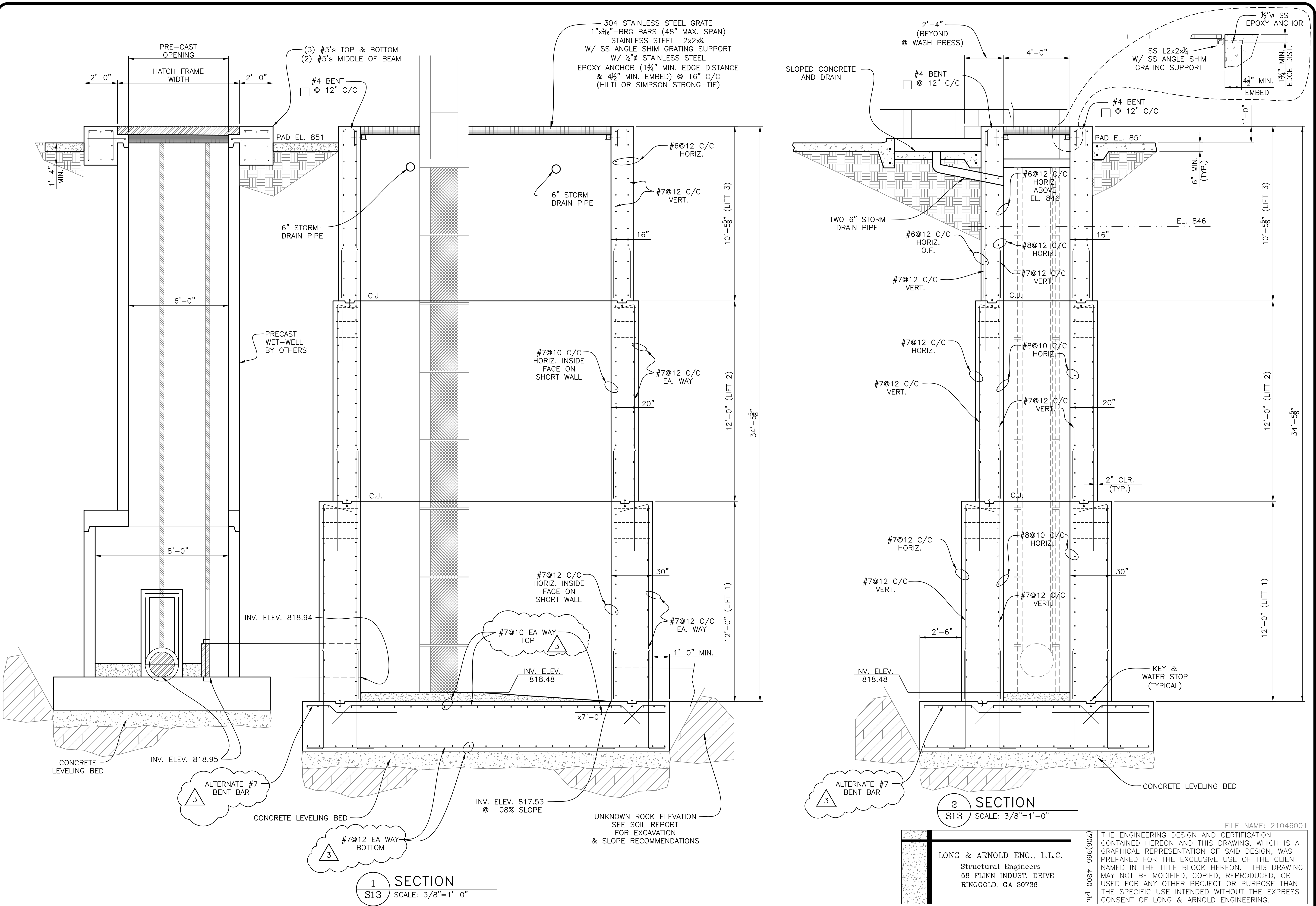
PROJECT NUMBER	SCALE	DATE
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REVISION	DATE	
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3 UPDATED WET WELL DEPTH	2-01-23	

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WEST DALLAS COLLECTOR
 SEWER EXTENSION - PHASE I
 SCREEN FLUME
 SECTIONS

SHEET NO.
S13

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 Structural Engineers
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