The Sewerage & Water Board
OF NEW ORLEANS

625 ST. JOSEPH STREET
NEW ORLEANS, LA 70165
504.529.2837 OR 52.WATER
www.swbno.org

October 12, 2023

Addendum No. 2

Your reference is directed to the Request for Quotation for **2023-SWB-79 – Saltwater Intrusion Emergency 2023 - Algiers Intake Mitigation (Rebid)** for the Sewerage and Water Board of New Orleans proposals that are due on **October 16, 2023,** at **11:00 a.m**. (CST).

This addendum provides for the following:

1. **Answers to questions.** (Pages 2-6)

2. **Clarifications:**
   Algiers Pumping Station #1 is comprised of 3 pumps capable of 15 MGD each. Current operations use 1 pump to provide the required raw water supply to the water treatment plant. In the additional information section of this addendum, the pump curve for one pump is included as attachment.

3. **Specifications:**
   REPLACE PROPOSAL PRICING FORM – with PROPOSAL PRICING FORM v2. Failure to submit revised pricing form will deem your bid submission non-responsive. (Page 7)
   ADD Section 00 52 13 – Agreement. 4.2 **REPLACE** paragraph 4.2 with the following:

   4.2 Days to Achieve Substantial Completion and Final Payment

   4.2.1. The Work will be substantially completed operational by November 30th and remain operational for 90 days. The removal of sheet piling and project ready for final payment in accordance with

Paragraph 14.07 of the General Conditions within 120 calendar days after the date when the Contract Times commence to run.

Remove "DRAFT" watermark from SPECIAL CONDITIONS FOR FEMA COMPLIANCE (2023)

Replace "Special and Technical Provisions – Algiers Intake #1 Emergency Water Supply" Section - in its entirety with the one included. (Pages 8-20)

4. **Drawings:**
   Revise Sheet 1 – Title Sheet: **ADD** "Sheet 13 - Algiers Temporary Laydown Yard" to the index. (Page 21)
   ADD Sheet 2 – Sheet 12: Replace these sheets in their entirety with Sheets 2 - 12 included as an attachment. (Pages 22-32)
   ADD Sheet 13 - Algiers Temporary Laydown Yard (Page 33)

5. **Record drawings:**
   Algiers Intake #1 Cofferdam and Pumping Operations record drawings are included. (Pages 34-81)

6. **Additional Information:**
   - Existing Algiers Intake #1 pump curves – Included (Page 82).
   - LA20230005 – Included (Pages 83-88).

Questions

1. What is the contract duration?
   USACE projects November 30th as the date Algiers will be impacted and bypass pumping operations must be operational by this date. The Contractor can anticipate a Notice to Proceed on or by October 18th. The duration of construction and bypass pumping will be 90 calendar days.

2. Will Builder's Risk Insurance be required?
   No – see Section 0073 00 - Supplementary Conditions – SC-5.06.

3. What is the material specification for the proposed 24" by-pass line?

HDPE – See TECHNICAL PROVISION for WATERLINE. The S&WB will allow a substitute piping material provided it meets the project objectives and the hydraulic requirements are met.

4. Will the cofferdam be a permanent structure or will it have to be removed? If it is to be removed, when will this removal take place?
   The steel pipe piles will remain in place. The steel sheet piles will be removed at the end of the 90 calendar days.

5. If the sheet pile and pipe pile get removed, who does the material belong to? If the Board retains possession, where will it be stored?
   SWBNO. The sheet piles will be stored in the laydown yard.

6. Can the steel sheet piles be used material?
   In accordance with Section EJCDC C-700, paragraph 6.03.B. The pipe piles shall be good quality and new. The S&WB will allow the sheet piles to be used provided they are good quality material.

7. Are there any soil borings that we can review prior to bid?
   Not at this location.

8. Please provide a complete set of record drawings per note on plan sheet 12.
   Included as an attachment with this addendum.

9. Are there any prevailing wages (Davis-Bacon) on this project?
   See SPECIAL CONDITIONS FOR FEMA COMPLIANCE (2023) DAVIS BACON ACT terms and conditions.

10. How wide is the 6" concrete pavement section on the levee that goes under the 24" bypass line?
    The 6" concrete pavement is existing and is 14 feet wide, centered on the existing 42" intake pipe. The proposed 24" bypass line will be adjacent to the existing 6" concrete on the adjacent grassed area.

11. What is the material specification for the pipe floats as required on sheet 11?
    DAE 24" or Nautilus 24" Pipe Floats or approved equal.

12. What is the temporary material to maintain bike path and driveway access?
    See detail included as part of this addendum.

13. Are there any DBE requirements on this project?
See Section 00 47 17 – DISADVANTAGED BUSINESS ENTERPRISE PROGRAM. All vendors/contractors are encouraged to identify and use SWBNO'S certified DBE Vendors to the fullest extent possible in major as well as minor purchases of heavy equipment, hardware supplies, etc.

14. Will the 24" bypass be removed once normal freshwater levels are restored?
Yes, it will be removed at the end of the operational period of 90 days.

15. Is there a take off available here?
- ***4,110 linear feet of 48" pipe piles***
- ***3,920 linear feet of E22 connectors***
- ***10,098 square feet of NZ19 sheet piles***

16. Is used material still acceptable here?
See question 6 above.

17. When would this job need to be completed?
See question 1 above.

18. Is coating needed if the material is temporary?
This will be addressed by addendum. The pipe piles require a coating. The sheet piles do not.

19. The note says it's to remain (the line stop) in the line for the duration of the project, is that accurate and if so how long should we expect to keep it in the line?
Yes – See question 1 above.

20. The note also says stainless steel shop coated half saddle line stop fittings with alloy hardware. This doesn't make sense, you wouldn't likely use a stainless steel saddle to weld onto a carbon steel pipe. You also wouldn't spec alloy hardware on a stainless steel sleeve. I believe they would want a carbon steel shop coated sleeve with alloy hardware
See Technical Provisions – Large Diameter Line Stops – Materials – Sleeve. The intent is to use a carbon steel, A-36 or equal sleeve. Bolts and nuts to be high strength, low alloy steel conforming to AWWA C111. Stainless steel hardware, type 304 may be used as described in this section. Sheet 10, Note 5, has been removed for clarity as part of this Addendum.

21. Are the line contents process water?
River water

22. What is the line pressure for the line stop?
Design line stop system to withstand a minimum of 150 psi.

23. Is domestic material required?
See Section 00 73 00 – SUPPLEMENTARY CONDITIONS, SC-6.03.E. See SPECIAL CONDITIONS FRO FEMA COMPLIANCE (2023) – DOMESTIC PREFERENCES FOR PROCUREMENTS.

24. Is the material taxable?
All materials purchased will be exempt from Louisiana State taxes and Orleans local taxes.

25. We would like to clarify if the demobilization line item needs to include the removal of the cofferdam, pipeline, and any other installed structures. We have reviewed the bid schedule and drawings, but there is no reference to the removal of the cofferdam and pipeline. We want to confirm whether the demobilization line item includes or excludes the removal of structures.
Item 5 – ALGIERS INTAKE #1 COFFERDAM includes removal or the cofferdam and Item 8 – 36" LINE STOP W 24" BYPASS includes removal of the pipeline.

26. How many days does the contractor have to complete the contract from Notice to Proceed to when liquidated damages are assessed?
Addressed in this addendum.

27. What is the design pressure for this system?
The pump curve for the Algiers pumping station is included with this addendum. The design flow is 15 MGD and the total static head is estimated at 30 feet.

28. I didn't see the DBE goal. Will there be a goal for DBE participation? If not, why?
See question 13.

29. What are the funding sources? Any Federal monies? They have requirements.
Federal (FEMA) with a local match.

30. Is everything that is being built also being removed, including line stop that is added to the 36-inch line, and if so, what is the time frame for the removal of all materials once we are given notice to remove? Are we supposed to haul materials that are removed off-site? If so, where are we to haul to?
These questions are answered in the addendum.

31. How do we moor barges that are being supplied to hold water?
The USACE barges will have tug boats, the spud barges should not require mooring and the water supply barge can be moored to the fender protection system in place.

32. Bid docs say 14 mgd and Drawings say 12 mgd. What amount of water are we supposed to be supplying?
The range is 12 MGD to 15MGD.

33. The specified connector E22 is not available. Please see the attached specifications for L8 Connectors (alternate to the E22). Can you please advise if the alternate L8 is acceptable?
L8 connectors are acceptable only if they meet or exceed ASTM A572, Grade 60.

34. The specified sealant is not available. Please see the attached data sheets on the Adeka A30 (Alternate to Sealant). Please advise if the alternate is acceptable.
Yes

35. Will you please provide a spec for the exterior surface coating for pipe and sheet piling? Please see the highlights on the attached image from the plans.
The coating is addressed in this addendum.

36. I need the Flow rate of the Existing 36"….I need to know what the Line Stop may see …as far as Pressure and Flow Rate????
Addressed in this addendum.

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*The changes, additions, and/or deletions included herein are hereby made part of the solicitation documents for **2023-SWB-79 for Request for Quotation for Saltwater Intrusion Emergency 2023 - Algiers Intake Mitigation (Rebid)**, as fully and completely as if the same were set forth therein. The proposer shall be responsible for having knowledge of all addendums issued for this RFQ. Failure to comply with the revisions in this and all addendums may deem your bid submission non-responsive.*

This addendum consists of 89 pages.

End of Addendum

Algiers Intake #1 Cofferdam and Pumping Operations
PROPOSAL PRICING FORM - ADDENDUM #2

TO: **Sewerage and Water Board of New Orleans**
8800 S. Claiborne Ave.
New Orleans, LA 70118

From: _____

BASE SCOPE OF WORK					
ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	EXTENDED PRICE
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1		
2	SURVEY	LUMP SUM	1		
3	FURNISH 48-INCH DIAMETER PIPE PILES WITH E22 CONNECTORS	LINEAR FOOT	4,110		
4	FURNISH NZ19 OR EQUIVALENT SHEET PILES	SQUARE FEET	10,098		
5	ALGIERS INTAKE #1 COFFERDAM	LUMP SUM	1		
6	FURNISHING, MAINTENANCE AND OPERATION OF SPUD BARGE PUMPING AND STANDBY CREW	DAYS	90		
7	CLEARING & GRUBBING (AS NEEDED)	ACRE	1		
8	LAYDOWN YARD AND FENCING	LUMP SUM	1		
TOTAL AMOUNT OF SCOPE OF WORK:					

ALTERNATE 1					
9	36" LINESTOP W 24" BYPASS	LUMP SUM	1		
10	FURNISHING, MAINTENANCE AND OPERATION OF RESERVIOR BARGE PUMPING FOR BYPASS PUMPING OPERATIONS	DAY	90		
TOTAL AMOUNT OF ALTERNATE 1:					

Special and Technical Provisions

Algiers Intake #1 Emergency Water Supply

Due to low river conditions associated with the Mississippi River, saltwater is expected to affect the Algiers Freshwater intake by November 30, 2023. The New Orleans Sewerage and Water Board (SWB) is soliciting proposals to assist the SWB in maintaining a sufficient supply of freshwater to the Algiers #1 intake as salinity within the Mississippi River increases. As such, the SWB has developed a scope of work for a cofferdam around intake #1 with pumping operations to receive fresh water from the United States Army Corps of Engineers supplied barges. This project also includes an alternate to add a 36" line stop downstream of pump station #1 with a 24" bypass connected to pumping operations to receive fresh water from the United States Army Corps of Engineers supplied barges.

The work is generally described as constructing a cofferdam with the storage capacity of approximately 3.6 million gallons; and providing a spud barge with pumps to move 12 to 15 million gallons of fresh water per day from USACE barges and discharge directly into the constructed cofferdam at the intake. The pumping operations will be on a 24-hour/ 7 days per week schedule.

The alternate is generally described as providing a reservoir barge with storage capacity of 1-2 Million Gallons to receive freshwater from USACE barges, a spud barge for the required pumping operations, pumping operations of skid mounted diesel pump(s) with capacity to pump 12 to 15 MGD under normal operating conditions. This pumping operation will suction freshwater from a contractor provided reservoir barge through the (3)12"x8" or (1)30"x24" Pump(s) (or contractor equivalent) to 24" pipe over the levee and to the tie in (Line Stop/Hot Tap) location beyond pump station #1 and then through the existing system to the plant. The line stop operation includes excavation and exposing the 36" Steel Pipe (2" concrete coating), removal of the concrete coating for saddle sizing, seating the saddle, performing the line stop and bypass connection, completion flange and access manhole at end of job. The pumping operations will be on a 24-hour/ 7 days per week schedule.

Algiers Intake #1 must remain in operation at all times. Changes to the existing operation to the full cofferdam must be done in conjunction with West Bank Operations. The Algiers intake facility cannot be out of service for more than 6-8 hours.

The Contractor shall provide complete construction as required to construct all details of the Project in accordance with good practice, applicable codes, S&WB guidelines, and this Proposal. Contractor's attention is called to the requirement to complete the necessary verification of all field elevations and dimensions and notify the Engineer of Record immediately of any discrepancies. The contractor is required to verify the proposed cofferdam layout prior to the start of construction, including identifying underground obstructions that may impact the general layout. The contractor shall account for additional construction material (pipe pile, sheet pipe, structural steel, etc.) that may be required for field adjustments to the general layout. The Contractor shall follow all necessary codes, standards, and requirements used for the development of the pricing for the Proposal.

The Contractor shall include with its proposal all anticipated requested design changes such as substitute material sizes based on availability and lead time. The contractor is required for means and methods of cofferdam construction to complete the highest quality project within the budget and schedule.

The Contractor shall develop and provide a quality control program and an implementation plan to ensure that the completed Project complies with the approved Project criteria.

The Contractor shall specify all tests that are required by the necessary codes and those that are appropriate to achieve compliance with the Contract. The Contractor shall provide timely shop drawing submittal and any required response to requests for additional information regarding the Construction Documents.

SPECIAL PROVISIONS

1.01. PRICING

Provide all labor, materials, and equipment necessary to perform the Work. The Work shall be performed in accordance with these provisions and the Conceptual Drawings or as directed by the Engineer. Quantity calculations, layouts, shop drawings, and construction sequencing of these items shall be provided in the Work Plan. Where the quantity of Work with respect to any item is covered by a unit price, such quantities are estimated quantities to be used when comparing pricing and the right is reserved by the Owner to increase/decrease such quantities as may be necessary to complete the Work and/or remain within the funding limits. In the event of material underruns/overruns, the unit costs will be used to determine payment to the Contractor.

The Work associated with the Pricing Form included herein include the following tasks of the Work:

1. Mobilization and Demobilization of personnel and equipment at or to the Project Site;
2. Performance and administration of Pre & Post Construction Surveys;
3. Furnish 48-Inch Diameter Pipe Piles with E22 Connectors;
4. Furnish NZ19 or Equivalent Sheet Piles;
5. Construction of Cofferdam at Algiers #1 Intake, combination of the following:
    - Pipe piles (48", 0.625" wall thickness) ASTM A572 Gr. 60
    - Sheet piles (NZ19) ASTM A572 Gr. 60
    - Sheet pipe connectors (E22) ASTM A572 Gr. 60
    - Sheet pile interlock sealant
    - Cold tar epoxy-polyamide paint
6. Furnishing, Maintenance and Operation of Standby Crew for Barge Pumping;
7. Clearing & Grubbing (as needed);
8. Laydown yard leveling and fencing;
9. 36" Line stop with 24" Bypass;
10. Furnishing, Maintenance and Operation of Barge Pumping

1.02. PRESERVATION AND RESTORATION OF PROPERTY, MONUMENTS, ETC.

The Contractor shall comply with all applicable laws, ordinances, rules, and regulations of any government agency having jurisdiction over the preservation and protection of public and private property. The Contractor shall install and maintain suitable safeguards and safety precautions during the Work as necessary to prevent damage, injury, or loss to property. This responsibility shall remain with the Contractor until the Work has been completed and accepted. Any damage, injury, or loss to property which is caused by the Contractor or Subcontractors shall be repaired or replaced at the expense of the Contractor.

The Contractor shall protect all land monuments, State and United States benchmarks, geodetic and geological survey monuments, and property markers from disturbance or damage until an authorized agent has witnessed or otherwise referenced their location. The Contractor shall also provide protection for all public and private property including trees, utilities, pipes, conduits, structures, etc. These items shall not be removed unless directed by the Engineer.

The Contractor shall be responsible to completely repair all damages to public or private property due to any act, omission, neglect, or misconduct in the execution of the Work unless it is due to unforeseeable causes beyond the control of and without the fault or negligence of the Contractor, including but not restricted to acts of God, public enemies, or governmental authorities. The damage must be repaired at the expense of the

Contractor before final acceptance of the Work can be granted by the Engineer. If the Contractor fails to repair the damage within forty-eight (48) hours, the Owner may independently proceed with the repairs at the expense of the Contractor by deducting the cost from the Contract. If the Contractor cannot provide for the cost of repairs, the Surety of the Contractor shall be held until all damages, suits, or claims have been settled.

1.03. NOTICE TO MARINERS/AIDS TO NAVIGATION

The Work shall be performed in accordance with the Navigable Waters and Wetlands Subsection 107.09 of the latest edition of the Louisiana Standard Specification for Roads and Bridges and all United States Coast Guard regulations. Navigable waterways shall not be impaired except as allowed by applicable laws or regulations. Excavation of access channels shall not be permitted unless otherwise specified in the Contract Documents. It is the responsibility of the Contractor to select equipment that can navigate from a maintained navigation channel to the Project Site without excavation existing water bottoms unless otherwise specified in the Contract Documents. Should excavation be required for access to the Project Site, the Contractor should perform the minimal amount of excavation to allow for safe passage of the Contractor's equipment during the performance of the Work. All equipment shall remain floating at all times during transit to the Project Site. The Contractor shall obtain NOAA Nautical Charts and/or other charts to become familiar with the water bottom depths in the vicinity of the Project Site.

If Contractor utilizes water-based equipment within the Mississippi River, Aids to Navigation shall be installed according to United States Coast Guard instructions and USCG regulations 33 CFR Part 66. All temporary aids to navigation shall be surveyed after installation. Contractor to maintain record of temporary aids to navigation and shall provide it to Owner if requested.

The Contractor shall contact the Eighth Coastal Region District of the United States Coast Guard at the contact information as soon as practicable prior to placement of any pipe or equipment into the Mississippi River, to provide all necessary information regarding the layout and schedule for the entire dredging operation and to request a Broadcast Notice to Mariners (BNM). The United States Coast Guard shall publish this information in the local notice to mariners. A copy of the original notice and all updates shall be provided to the Engineer and Owner.

U.S. Coast Guard—Eighth District
Marine Information Section
Telephone: 504-671-2118
Email: D8MarineInfo@uscg.mil

The Contractor shall not otherwise remove, modify, obstruct, willfully damage, make fast to or interfere with any existing Aids to Navigation.

1.04. OBSTRUCTION TO NAVIGATION

The Contractor shall minimize all obstructions to navigation in compliance with pertinent U.S. Coast Guard regulations while conducting the Work. The Contractor shall promptly move any floating equipment or marine vessels which obstruct safe passage of other marine vessels. Upon completion of the Work, the Contractor shall remove all marine vessels and other floating equipment such as temporary ranges, buoys, piles, and other marks or objects that are not permanent features of the Work.

1.05. MARINE VESSELS AND MARINE ACTIVITIES

All marine vessels regulated by the USCG shall have the required USCG documentation that is current before

being placed in service. A copy of any USCG Form 835 issued to the vessel in the preceding year shall be made available to the Owner and Engineer and a copy shall be on board the vessel. All officers and crew shall possess valid USCG licenses as required by USCG regulations. These certificates, classifications, and licenses shall be posted in a public area on board each vessel.

All tugboats or other contractor vessels not subject to USCG inspection and certification or not having a current ABS classification shall be inspected in the working mode annually by a marine surveyor accredited by the National Association of Marine Surveyors (NAMS) or the Society of Accredited Marine Surveyors (SAMS) and having at least 5 years' experience in commercial marine plant and equipment. The inspection certificate shall be posted in a public area on board each vessel.

All other plant and support vessels shall be inspected before being placed in service and at least annually by a qualified person. The inspection certificate shall be posted in a public area on board each plant and/or vessel.

1.06. NOTIFICATION OF DISCOVERY OF HISTORICAL OR CULTURAL SITES

If during construction activities the Contractor observes items that may have prehistoric, historical, archeological, or cultural value, the Contractor shall immediately cease all activities that may result in the destruction of these resources and shall prevent its employees from trespassing on, removing, or otherwise damaging such resources. Such observations shall be reported immediately to the Owner and Engineer so that the appropriate authorities may be notified, and a determination made as to their significance and what, if any, special dispositions of the finds should be made. The Contractor shall report any observed unauthorized removal or destruction of such resources by any person to the Owner and Engineer, so the appropriate State of Louisiana authorities can be notified. The Contractor shall not resume Work at the site in question until State authorities have rendered judgment concerning the artifacts of interest.

1.07. ENVIRONMENTAL PROTECTION MEASURES

This section covers prevention of environmental pollution and damage as the result of construction operations under this Contract and for those measures set forth in other technical provisions. Environmental pollution and damage is defined as the presence of chemical, physical, or biological elements or agents which adversely affect human health or welfare, unfavorably alter ecological balances of importance to human life, affect other species of importance to man, or degrade the utility of the environment for aesthetic, cultural and/or historical purposes. The control of environmental pollution and damage requires consideration of air, water, and land, and includes management of visual aesthetics, noise, solid waste, radiant energy and radioactive materials, as well as other pollutants. The environment shall be protected and all natural resources shall be preserved during construction. All Federal, State, and Local laws and regulations shall be complied with during construction.

1.08. ACCIDENT PREVENTION, INVESTIGATIONS, AND REPORTING

The Contractor shall be responsible to develop and maintain all safeguards and safety precautions necessary to prevent damage, injury, or loss throughout the performance of the Work. All accidents at the Project Site shall be investigated by the immediate supervisor of employee(s) involved and reported to the Engineer or Resident Project Representative within one (1) working day. A complete and accurate written report of the accident including estimated lost time days shall be submitted to the Engineer within four (4) calendar days. A follow-up report shall be submitted to the Engineer if the estimated lost time days differ from the actual lost time days.

1.09. PROJECT SITE CLEAN-UP

The Contractor shall keep the Project Site free from accumulations of waste material or trash at all times. All

trash and waste materials shall be removed by the Contractor and disposed off-site in an approved waste disposal facility. In addition, all equipment, tools, and non- conforming work shall also be removed prior to the Work being accepted. No materials shall be placed outside of the Project Site.

1.10. CONTRACTOR'S RESPONSIBILITY FOR WORK

The Contractor shall execute all items covered by the Contract, and shall furnish, unless otherwise definitely provided in the Contract, all materials, implements, machinery, equipment, tools, supplies, transportation, and labor necessary to complete the Work. The Contractor shall pay constant attention to the progress of the Work and shall cooperate with the Engineer in every way possible.

1.11 SCHEDULE OF VALUES

Submit a schedule on EJCDC C-620 within 10 calendar days of notice to proceed. Schedule to include a detailed breakdown of each pricing item.

TECHNICAL PROVISIONS

2.01. GENERAL

A. Except as superseded by these provisions and Documents, the specifications for this project are the *Louisiana Standard Specifications for Roads and Bridges*, 2016 edition, as adopted by the State of Louisiana, Department of Transportation and Development, Office of Highways (LA DOTD). The following is a list of the specification sections from the LA DOTD Standard Specifications, which apply to this project, as amended by the Conceptual Drawings and specifications.

Item	LA DOTD Spec. Section No.
Removal or Relocating Structures and Obstructions	202
Excavation and Embankment	203
Temporary Erosion Control	204
Traffic Maintenance Surfacing	402
Fences	705
General Requirements for Structures	801
Structural Excavation, Backfill and Earth Retaining Systems	802
Piles	804
Structural Metals	807
Painting and Protective Coatings	811
Temporary Works	817
Aggregates	1003
Paints	1008
Signs and Pavement Markings	1015

B. The Basis of Payment under the referenced LA DOTD specifications does not apply on this project. All payment will be on a lump sum or unit price basis, as defined on the proposal form within the following sections.

2.02. LARGE DIAMETER LINE STOPS

A. SUMMARY. Large Diameter Line Stops for isolating existing water mains ranging from 24-inch to 96-inch in diameter. The Contractor shall execute A line stop on 36" steel water transmission main with 2" concrete coating as required by the Contract Documents. The line stop procedure shall be intended as a means of temporarily plugging a pressurized pipeline without disrupting pressure or service upstream of the line stop device. The line stop shall be installed by means of a pressure tap. The entire line stop procedure shall be accomplished without the reduction of pressure in the pipeline below the standard operating pressures. Shutdowns accomplished by line stop procedures may not be drip tight. A satisfactory shut off will be defined as one which allows the work to be accomplished using drainage pumps to dewater excavations if necessary.

B. REFERENCES
   1. ASTM A36 - Standard Specification for Carbon Structural Steel.
   2. ASTM A105 - Standard Specification for Carbon Steel Forgings for Piping Applications.
   3. ASTM A181 - Standard Specification for Carbon Steel Forgings, for General-Purpose Piping.
   4. ASTM A283 - Standard Specification for Low and Intermediate Tensile Strength Carbon Steel Plates.
   5. AWWA C111 - American National Standard for Rubber Gasket Joints for Ductile- Iron Pipe and Fittings for Water.
   6. ASME B16.5 - Pipe Flanges and Flanged Fittings.

C. DEFINITIONS
   1. Large Diameter Line Stop - Plugging mechanism used for isolating sections of existing water line temporarily.
   2. Pivot Head - To be used on a size-on-size tap. Plug head is turned once inside existing pipe.
   3. Folding Head - To be used for a reduced size tap. Plug head is unfolded within existing pipe after being inserted.
   4. Plugged - Adequate flow stoppage to permit the completion of required work.
   5. Completion Plug - After Line Stop is removed completion plug seals outlet and a blind flange is installed.
   6. Line Stop Sleeve - Fitting that goes around existing pipe and to be used to hot tap existing pipe. Line Stop Sleeve to be left in place after removal of Line Stop.

D. SUBMITTALS. Submit qualifications and certificate from manufacturer certifying operators are qualified to operate manufacturer's tapping and Line Stop equipment. Submit qualifications verifying recent successful completion of line stopping operations on large diameter water lines, including diameters and pipe materials required to complete work. Include list of references. Submit shop drawings for approval prior to start of fabrication. Identify procedures required during and/or after tapping procedure for the specified pipe material being tapped. Submit detailed work plan including flow requirements for Line Stop installation and removal. Provide contingency plan for unsuccessful line stop operation and completion, including typical causes and proposed solutions. Submit foundation design for support of Line Stop, signed and sealed by a Professional Engineer registered in State of Louisiana. Submit requirements for flow and pressure in line during tapping, Line Stop installation, line stopping, reduced bypass and Line Stop removal stages of the work. Include anticipated durations of each step. Provide survey coordinates of Line Stop and show on record drawings.

E. QUALITY ASSURANCE. Line stopping shall be completed by a tapping supplier with a substantial record of successful line stop installations. Supplier shall have a minimum of ten years verifiable experience in the installation of line stops. The installation shall be accomplished by personnel skilled and experienced in the required procedures. Prior to ordering materials, the Contractor shall review the Owner's pipe manufacturer's records which will include the make, specification, and age of the pipeline to be stopped.

F. MATERIALS. Selection of Line Stop Sleeve and Line Stop must take into consideration pipe material and existing conditions for project. Conduct welding in accordance with applicable codes and standards. Stress relieve all welds. Clearly mark Line Stop Sleeve and attachments to permit proper alignment in field and to ensure ends are properly matched when installed around pipe.
   1. Line Stop Sleeve:

a. Provide as a minimum sleeve and attachments fabricated in accordance with ASTM A36 or ASTM A283 standards. Provide sleeve which conforms to and adequately reinforces existing pipe to prevent distortion or failure of pipe. Line Stop Sleeve to have fusion bonded epoxy or approved equal. Sleeve and attachments used in hot tapping procedure are to be in compliance with maximum working pressure of system as specified and/or shown on Drawings. Provide flanges manufactured in accordance with ASTM A181, ASTM A105 grade steel, ASME B16.5 in sizes up to 24-inches and MSS-SP 44 in sizes 26-inches and larger.
b. Provide external bolting, studs and nuts consisting of corrosion resistant, high strength, low alloy (AWWA C 111). Denso or approved equal petroleum-based tape coating. As an option, stainless steel 18-8 type 304 bolts, studs and nuts may be used.

2. Pivot Head Line Stop: Pivot Head Line Stop is allowed on steel pipe only.
   a. Plugging machine provided by a size-on-size tapping fitting for 36-inch diameter and below. Tapping Sleeves for Steel Pipe shall be in accordance with AWWA Manual M9. They shall also meet AWWA C301 and C303 Standards pertaining to design, manufacturing quality tests and welders qualifications. Pivot head to include a nitrile or Buna-N O-ring for plugging.
   b. Design Line Stop system to withstand a minimum of 150 psi.
3. Folding Head Line Stop: Plugging machine provided by a reduced size of tapping fitting for 42-inch diameter and larger, in accordance with the ANSI/AWWA C-223 and MSS-SP 124 Standards as applicable. Folding head to include a nitrile or Buna-N O-ring for plugging. Tapping sleeves shall be ANSI/NSF Standard 61 Certified
   a. Design Line Stop system to withstand a minimum of 150 psi.

G. INSTALLATION. Plan Line Stop procedure to minimize impact to the public. Notify Project Manager at least 24 hours in advance of line stopping procedure, including excavation. Do not operate valves. Sewerage and Water Board of New Orleans will handle, at no cost to Contractor/subcontractors, operations involving opening and closing valves. Provide at a minimum 72 hour notice for valve operations. Indicate the required flow needed for proper Line Stop insertion. Conduct Line Stop operations in presence of Project Manager and/or Construction Manager. Continue line stopping work without interruption until Line Stop operation is complete and pipe is plugged.
   1. Pipe Preparation: Thoroughly clean pipe down to factory supplied outside diameter. Carefully inspect pipe, especially at point where tap will take place. Confirm roundness of existing pipe. Do not tap within 4 feet of an existing joint. For a Folding Head Line Stop the diameter of tap should be no greater than 75% of pipe diameter. Cement mortar coating shall be carefully removed within the limits of tapping assembly prior to installing Line Stop Sleeve.
   2. Line Stop Sleeve Installation: Place top half of sleeve with flanged outlet at the 12 o'clock position on pipe. Install sleeve and attachments in accordance with manufacturer's recommendation. Torque bolts in accordance with the manufacturer. Any misalignment in sleeve installation will require removal of sleeve from pipe. Pour concrete foundation around Line Stop Sleeve. Foundation dimensions and materials to be designed by contractor. If existing pipe has concrete mortar coating remove the outer concrete core within opening of Line Stop Sleeve. For PCCP, carefully cut and remove the prestressed wires within the limits of Line Stop Sleeve once concrete foundation is in place. Record type of coating and measured outside diameter of existing pipe on plan sheet of record drawings where line stop is shown. Install gland with O-ring and tighten bolts to provide compression seal between O-ring and steel cylinder.
   3. Pressure Testing: After sleeve is attached and before line tapping procedure begins, pressure test sleeve.
   4. Tap through cylinder and inner mortar lining and retrieve pipe coupon. Remove tapping assembly and mount Line Stop assembly.
   5. If reduced bypass is required per contract drawings, include bypass assembly with Line Stop assembly and connect.
   6. If Line Stop is unsuccessful in adequately reducing existing water flow for purposes of successfully completing proposed work, mechanically clean interior of pipe with line stop head as approved by Project Manager. Do not damage pipe's interior lining during mechanical cleaning.

7. Anticipate water leakage from Line Stop and include cost of water removal in unit price bid for Large Diameter Line Stop work. Coordinate with Construction Manager to reduce pressure, if needed.
8. After connection to pipe or associated work requiring installation of an isolation valve is complete, remove Line Stop equipment from pipe and seal Line Stop Sleeve with Completion Plug and blind flange.
9. Apply external coating to sleeve, flange and water main in accordance with applicable specification for the host pipe material. Unless otherwise directed by Project Manager, provide similar coating to existing pipe's coating.

2.03. WATERLINE

A. References: The standards and documents listed below apply to the materials and practices of these provisions. In the event of a conflict, the requirements of these prevail. Unless otherwise noted, references to documents shall mean the latest published edition of the referenced document in effect at the project pricing receipt date.
   1. ANSI/AWWA C906 Polyethylene (PE) Pressure Pipe and Fittings, 4 In. (100mm) Through 63 In. (1,600), for Water Distribution and Transmission.
   2. PPI Handbook of Polyethylene Pipe – 2009 (2nd edition)
   3. PPI Material Handling Guide for HDPE Pipe and Fittings
   4. PPI TN-38 Bolt Torque for Polyethylene Flanged Joints.
   5. PPI TN-42 Recommended Minimum Training Guidelines for PE Pipe Butt Fusion Joining Operators for Municipal and Industrial Projects
   6. ASTM F714 Standard Specification for Polyethylene (PE) Plastic Pipe (SOR-PR) Based on Outside Diameter
   7. ASTM F905 Standard Practice for Qualification of Polyethylene Saddle-Fused Joints
   8. ASTM F2164 Standard Practice for Field Leak Testing of Polyethylene (PE) Pressure Piping Systems Using Hydrostatic Pressure
   9. ASTM F2206 Standard Specification for Fabricated Fittings of Butt-Fused Polyethylene (PE) Plastic Pipe, Fittings, Sheet Stock, Plate Stock, or Block Stock
   10. ASTM F2620 Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings
   11. ASTM F2880 Standard Specification for Lap-Joint Type Flange Adapters for Polyethylene Pressure Pipe in Nominal Pipe Sizes 314 in. to 65 in.
   12. ASTM F3124 Standard Practice for Data Recording the Procedure Used to Produce Heat Butt Fusion Joints
   13. ASTM D3261 Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing
B. Materials
   1. Resin and Material Requirements. All material shall be manufactured from a PE 4710 resin listed with the Plastic Pipe Institute (PPI) as TR-4. The resin material shall meet the specifications of ASTM 03035 with a minimum cell classification of 445474C. HDPE pipe and fittings shall contain no recycled compounds except that generated in the manufacturer's own plant from resin of the same specification from the same raw material. HDPE products shall be homogeneous throughout and free of visible cracks, holes, foreign inclusions, voids, or other injurious defects.
   2. HDPE Pipe. Pipe shall be made of HDPE material with a minimum material designation code of PE4710 and with a minimum Cell Classification as noted in A. "Resin and Material Requirements". The polyethylene compound shall be suitably protected against degradation by ultraviolet light by means of carbon black of not less than 2 percent. The manufacture of the HDPE resin shall certify the cell classification indicated.
   3. Pipe sizes 3" and large shall have a manufacturing standard of ASTM F714. Dimension Ratio (DR) and Outside Diameter (IPS/DIPS) shall be Ductile Iron equivalent.
   4. Pipe shall meet AWWA C901 (1/2" to 3") or AWWA C906 (4" to 63") and shall be listed as meeting NSF-61.
   5. When required by the owner, pipe shall be color coded for the intended service. The color coding shall be permanently co-extruded stripes on the pipe outside surface as part of the pipe's manufacturing process. Color coding shall be as follows:

a. Sewer - green
b. Water - blue
c. Reclaim - purple

6. HDPE Fittings. Butt Fusion Fittings - Fittings shall be made of HDPE material with a minimum material designation code of PE4710 and with a minimum Cell Classification as noted in 2.01.A. Fittings shall have a minimum pressure rating equal to or greater than the pipe to which they are joined unless otherwise specified on the Conceptual Drawings or accepted by owner/engineer. All fittings shall meet the requirements of AWWA C90 l or C906.
   a. Molded fittings shall comply with the requirements of ASTM D3261.
   b. All fabricated elbows, tees, reducing tees and end caps shall be produced and meet the requirements of ASTM F2206, as manufactured by ISCO Industries, Inc or other approved manufacturer holding an ISO 900 l quality system certificate. Each fitting will be marked per ASTM F2206 section 10 including the nominal size and fitting EDR, which will meet or exceed the pipe DR identified for the project. Fabricated fittings shall be manufactured using the manufacturer's dataLogger to record fusion pressure and temperature, and shall be stamped with unique joint number that corresponds to the joint report. A graphic representation of the temperature and pressure data for all fusion joints made producing fittings shall be maintained for a minimum of 5 years as part of the quality control and will be available upon request of owner. Test results to validate ASTM F2206 section 7.3 and 9 shall be provided to owner or owner's representative upon request.
   c. Socket fittings shall meet ASTM D2683.
7. Electrofusion Fittings - Fittings shall be made of HDPE material with a minimum material designation code of PE4710 and with a minimum Cell Classification as noted in 2.01.A. Electrofusion Fittings shall have a manufacturing standard of ASTM Fl 055. Fittings shall have a minimum pressure rating equal to or greater than the pipe to which they are joined unless otherwise specified on the Conceptual Drawings. For potable water systems, all electrofusion fittings shall have AWWA approval.
8. Bolted Connections - Flanges and MJ Adapters shall be fused onto the pipe and have a minimum pressure rating equal to or greater than the pipe unless otherwise specified on the Conceptual Drawings.
   a. Metallic back-up rings (Van-Stone style lap joint flanges), shall have a radius on the inside diameter of the bore so as to be compatible with HDPE Flanges. Back up rings shall have bolt pattern that will mate with AWWA C207 Class D (generically known as 150 pound patterns).
   b. Flange assemblies shall be assembled and torqued according to PPI TN-38, "Bolt Torque for Polyethylene Flanged Joints."
   c. Where shown on the drawings, 4" and larger transitions to mechanical joint fittings and valves shall be accomplished using a MJ Adapter with kit. The O.1./HDPE mechanical joint adaptor shall consist of an HDPE mechanical joint transition fitting, rubber gasket, a mechanical joint backup drive ring, and Cotten mechanical joint tee bolts.
9. Mechanical Fittings. The use of mechanical coupling and saddles shall be approved by the owner or engineer prior to installation. Mechanical Fittings shall be designed for use and compatible with HDPE pipe, including SS stiffeners when required by manufacturer. Mechanical fittings shall have a pressure rating equal to or greater than the pipe.
10. Fusion Equipment Requirements
    a. Butt fusion equipment must be in satisfactory working order and the hydraulic system must be leak free. Heater plates shall be free from scrapes, gouges, and have a consistent clean coated surface. The pressure gage and thermometer should be checked for accuracy. When requested by the owner, records showing a maintenance service/inspection within 3 months prior to use for this project shall be provided.
    b. Rental Butt Fusion Equipment must be maintained by an Authorized Service and Repair Center.
    c. Electrofusion Processors shall be maintained and calibrated per manufacturer's requirements and recommendations.

11. Approved Suppliers. All Pipe, Fittings, and Fusion Equipment shall be provided by one supplier. Approved suppliers are ISCO Industries, Inc. or approved equal.
12. Pipeline Leaks: The Contractor shall maintain a tight discharge pipeline at all times. The joints shall be so constructed as to preclude spillage and leakage. If leaks occur, they shall be promptly repaired. The Contractor shall notify the Engineer of the leak immediately and provide notice of the leak repair site for visual inspection.

2.04. MOBILIZATION AND DEMOBILIZATION

A. Scope/Description: Mobilization and Demobilization includes all costs necessary to transport personnel, equipment, supplies and incidentals to and from the Project Site, establish offices, buildings, and other facilities necessary for the Work, required insurance, Payment and Performance Bonds, improve and maintain the Staging Area(s) as deemed necessary by Contractor (including coordination with property owner), excavation and backfill of temporary Equipment Access Corridors, and any other pre- construction expenses necessary to perform the Work. Material costs for items listed or subsidiary to the major work items listed on the Pricing Form shall not be included under Mobilization and Demobilization.
B. Measurement and Payment: This item is a Lump Sum Pricing Item therefore does not require specific measurement for payment. Sixty percent (60%) of the Mobilization and Demobilization lump sum price will be paid to Contractor upon complete mobilization to the Project Site. Mobilization will be considered complete upon written notification by the Engineer that one (1) pipe pile or sheet pile section is successfully installed and placed for the cofferdam indicated by the Conceptual Drawings. Contractor may propose an alternate method of determining completion of Mobilization in the Work Plan, but the alternate method must be approved, in writing, by the Engineer. The remaining forty percent (40%) will be paid to Contractor upon final acceptance of the Work and removal of cofferdam, all equipment and unused materials from the project site. Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.05. SURVEY

A. Scope/Description: Contractor shall provide Pre-construction, Post Constructions Surveys along the proposed cofferdam for locations of clearing and grubbing, driveway and utility conflicts, any fenders, temporary Aids to Navigation. A topographic survey shall be performed along the centerlines of the equipment access to the site prior to mobilization of equipment.
    1. Topographic survey equipment shall have a minimum vertical and positional accuracy of two-tenths (0.2) of a foot. A six (6) inch diameter or 4-in. by 4-.in square metal plate shall be attached to the bottom of the survey rod to prevent the rod from sinking below ground level for areas that are wet. In vegetated areas, the survey plate shall rest among living vegetative stems and be supported by soil containing living vegetative roots.
    2. A topographic survey shall be performed along the proposed Cofferdam shown on the Conceptual Drawings prior to mobilization of equipment. Perpendicular transects shall be surveyed at three equal spacing of the proposed cofferdam. Elevations and coordinates shall be recorded along the perpendicular transects at ten (10) foot intervals and at all points of inflection. The surveys should demonstrate the elevations of the pre-construction ground surface.
    3. The Post Construction Surveys shall be used to confirm restoration of ground surface conditions along the Mississippi River and Flood Protection Levee and inclusion of relevant Change Orders, and indicate the As-Built structures and conditions of the Work upon completion of the project. The Post Construction Survey shall show the constructed Bid Items in plan and profile using elevations, coordinates, lines and grades consistent with the Pre- Construction Survey unless stated otherwise. The Post Construction Survey shall also include all pre-construction surveys as well as any field condition and/or formal change order items

properly indicated in red. The Post Construction Survey must document the removal/backfilling of any temporary material dug for equipment access.

4. Horizontal and Vertical Control: Survey data shall reference the North American Datum of 1983 (NAD 83), Louisiana South Zone, U. S. Survey Feet, and the North American Vertical Datum of 1988 (NAVD 88), U. S. Survey Feet Geoid 12B Epoch 2010.00. Horizontal and vertical control shall be established by using the Louisiana State Primary or Secondary monument provided in Appendix C Survey Control Monuments shall be installed as deemed necessary by the Contractor to perform all surveys.

B. Measurement and Payment: This item is a Lump Sum Pricing Item therefore does not require specific measurement for payment. The Contractor shall submit surveys for payment after gaining Acceptance. Sixty percent (60%) of the Contract Price Item will be paid to the Contractor upon Acceptance of the Pre-Construction Survey. The remaining forty percent (40%) will be paid to the Contractor upon Acceptance of the Post Construction Survey. Payment shall be made at the Contract lump sum price for Item No. 2 "Survey" per the schedule listed. Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.06. FURNISH 48 INCH DIAMETER PIPE PILES WITH E22 CONNECTORS

A. Scope of Work: This Work includes fabricate and deliver the necessary 48-inch diameter pipe piles for use in the Algiers Intake #1 Cofferdam. The cofferdam system includes 48"Ø (0.625" wall thickness) pipe piles with intermediary NZ19 sheet piles joined with E22 connectors. Pipe pile and sheet pile connections shall include interlock sealant. Pipe piles shall include coating. All structural pile items shall conform to ASTM A572 Gr. 60.
B. Materials: The materials for the cofferdam shall conform with LADOTD Standard Specifications section 817.02 and 811.03 as indicated on the project drawings.
C. Measurement and Payment: All costs associated to furnish and deliver for the 48-inch diameter pipe piles with the E22 connectors, interlock sealant and coating shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 3 "FURNISH 48-INCH DIAMETER PIPE PILES WITH E22 CONNECTORS". Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.07. FURNISH NZ19 OR EQUIVALENT SHEET PILES

A. Scope of Work: This Work includes fabricate and deliver the necessary NZ19 sheet piles for use in the Algiers Intake #1 Cofferdam. The cofferdam system includes 48"Ø (0.625" wall thickness) pipe piles with intermediary NZ19 sheet piles joined with E22 connectors. Pipe pile and sheet pile connections shall include interlock sealant. Pipe piles shall include coating. All structural pile items shall conform to ASTM A572 Gr. 60.
B. Materials: The materials for the cofferdam shall conform with LADOTD Standard Specifications section 817.02 and as indicated on the project drawings.
C. Measurement and Payment: All costs associated to furnish and deliver for the NZ19 or equivalent sheet piles and interlock sealant shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 4 "FURNISH NZ19 OR EQUIVALENT SHEET PILES". Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.08. ALGIERS INTAKE #1 COFFERDAM

A. Scope of Work: This Work includes design, fabricate, deliver, install, maintain, remove and store the cofferdam system. The cofferdam system includes 48"Ø (0.625" wall thickness) pipe piles with intermediary NZ19 sheet piles joined with E22 connectors. Pipe pile and sheet pile connections shall include interlock

sealant. Pipe piles shall include coating. All structural pile items shall conform to ASTM A572 Gr. 60. The cofferdam shall provide an approximate storage capacity of 3.6 million gallons. The cofferdam must be designed to allow for removal of sheet piles at the intake within a 8-hour notice to allow river flow to the intake. The cofferdam system consists of temporary elements such as walls, supporting structural elements, and water control system.

B. Materials: The materials for the cofferdam shall conform with LADOTD Standard Specifications section 817.02 and 811.03 as indicated on the project drawings.
C. Measurement and Payment: All costs associated with the installation of the cofferdam shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 5 "ALGIERS INTAKE #1 COFFERDAM". Payments shall constitute full compensation for furnishing the all other material not otherwise identified in Bid Item No. 3 "FURNISH 48 INCH DIAMETER PIPE PILES WITH E22 CONNECTORS" or Bid Item No. 4 "FURNISH NZ19 OR EQUIVALENT SHEET PILES", as well as labor, equipment and other incidentals related to this item of the work.

2.09. FURNISHING, MAINTENANCE AND OPERATION OF SPUD BARGE PUMPING AND STANDBY CREW

A. Scope of Work: This Work consists of furnishing and assembling the necessary equipment to receive 12 to 15 million gallons of freshwater from the USACE barges, including the rental of an appropriately sized spud barge as indicated on the Conceptual Drawings. The contractor provided spud barge will act as an intermediate between the USACE freshwater barges and the contractor constructed cofferdam at the intake. Contractor shall assist the USACE Freshwater Supply Contractor as necessary to facilitate the emptying of the USACE supply barges into the Cofferdam. Contractor shall also have the necessary crew and equipment on standby to remove NZ19 sheet piles, as necessary, should low water conditions occur. Contractor shall also supply all necessary fuel, labor, light plants, and backup pumps as necessary to operate and maintain the required flows to the Algiers Water Treatment Plant on a 24-hour/ 7 days per week schedule.
B. Materials: Contractor shall supply pumps and screens as necessary to provide the required freshwater supply to the Algiers Water Treatment Plant.
C. Measurement and Payment: All costs associated with the Maintenance and Operation of Barge Pumping shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 6, "Maintenance and Operation of Barge Pumping and Standby Crew". Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.10. CLEARING AND GRUBBING (AS NEEDED)

A. Scope of Work: Some Clearing and Grubbing of vegetative material may be required for the placement of the cofferdam or necessary barges along the Mississippi River and Flood Protection Levee. This item is as necessary to complete the facilitate the cofferdam installation or the bypass system. Owner or Owner's representative shall be present during the survey of the area to be Clear and Grubbed for payment quantities.
B. Measurement and Payment: All costs associated with Clearing and Grubbing shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 7, "Clearing and Grubbing As Needed".

2.11. 36" LINE STOP W 24" BYPASS

A. Scope of Work: This Work includes furnishing and installing the line stop, completion plug, waterline including all bends, fittings and accessories. This includes any necessary signs, temporary ramps or other items that may be required to maintain operations of the bicycle pathway or drives the waterline crosses. It also includes removal of the bypass at the completion of operations.

B. Materials: The materials for the line stop and waterline shall conform with the technical provisions herein and as indicated on the project drawings.
C. Measurement and Payment: All costs associated with the installation of the 36" Line Stop and waterline shall be paid for at the Contract unit price stated on the Pricing Form for the following item: Item No. 9 "36" LINE STOP W 24" BYPASS". Payment for this item will constitute full compensation for furnishing and installing the line stop, completion plug, waterline including all equipment, tools, labor, excavation, backfill and incidentals.

2.12. FURNISHING, MAINTENANCE AND OPERATION OF RESERVOIR BARGE PUMPING

A. Scope of Work: This Work consists of furnishing a reservoir barge with a minimum volume of 1 million gallons to receive and discharge 12 to 15 million gallons of freshwater from the USACE barges, including the rental of an appropriately sized spud barge as indicated on the Conceptual Drawings. The pumping shall take place on a contractor provided spud barge from the reservoir barge through the 24" Bypass line to the line stop per the drawings. Multiple pumps will be required to pump fresh water from reservoir barge and water from river into the reservoir barge depending on mixing plan furnished by Sewerage and Water Board. Contractor shall also supply all necessary fuel, labor, light plants, and backup pumps as necessary to operate and maintain the required flows to the Algiers Water Treatment Plant on a 24-hour/ 7 days per week schedule.
B. Materials: Contractor shall supply pumps and screens as necessary to provide the required freshwater supply to the Algiers Water Treatment Plant.
C. Measurement and Payment: All costs associated with the Maintenance and Operation of Reservoir Barge Pumping shall be paid for at the Contract unit prices stated on the Pricing Form for the following items: Item No. 10, "Furnishing, Maintenance and Operation of Reservoir Barge Pumping". Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

2.13. LAYDOWN YARD AND FENCING

A. Scope of Work: The Work should include the clearing and leveling of site with the installation of 8 inches leveling sand as needed for leveling and rut repair at the Laydown Area as shown on Conceptual Drawings. Work is also to installation of 9-foot tall chain link fence along with chain link gates as shown on Project Drawings. Material such as fencing and leveling sand should remain onsite after completion of Project. Contractor shall refer to LADOTD Standard Specifications section 705 Fences for additional details.
B. Materials: The materials for the chain link fence shall conform with LADOTD Standard Specifications section 705.02 and as indicated on the project drawings.
C. Measurement and Payment: All costs associated with the construction of Laydown Yard and Fencing shall be paid at the Contract unit prices stated on the Pricing Form for the following items: Item No. 8, "Laydown Yard and Fencing". Payments shall constitute full compensation for furnishing the material, labor, equipment and other incidentals related to this item of the work.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

ENGINEERING DEPARTMENT

MISSISSIPPI RIVER SALTWATER INTRUSION ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATIONS

SITE OR LOCATION PLAN

SHEET No.	TITLE	SHEET No.	TITLE
01	TITLE SHEET		
02	SITE PLAN		
03	PROPOSED COFFERDAM		
04	PROPOSED COFFERDAM ALIGNMENT		
05	ELEVATION AND DETAILS		
06	SECTION AND DETAILS		
07	USACE REVETMENT REPAIR DETAILS		
ALT #1	36" LINE STOP AND PUMPING OPERATIONS		
08	SITE PLAN		
09	OVERALL SCHEMATIC		
10	ENLARGED SCHEMATIC		
11	TYPICAL PROFILE		
12	RECORD DRAWING/PLAN PROFILE		

THIS ACKNOWLEDGES THAT THE ATTACHED DRAWINGS HAVE BEEN RECEIVED BY THE SEWERAGE & WATER BOARD OF NEW ORLEANS AND HEREBY FORWARDED FOR PROCUREMENT. THE SEWERAGE & WATER BOARD OF NEW ORLEANS DOES NOT RELEASE CONSULTANT/DESIGNER FROM ANY LEGAL LIABILITY THAT MAY ARISE FROM THE BOARD'S ACCEPTANCE OR USE OF THE ATTACHED DRAWINGS FOR THEIR INTENDED PURPOSE.

Melvin R. Spooner
GENERAL SUPERINTENDENT
10/05/23

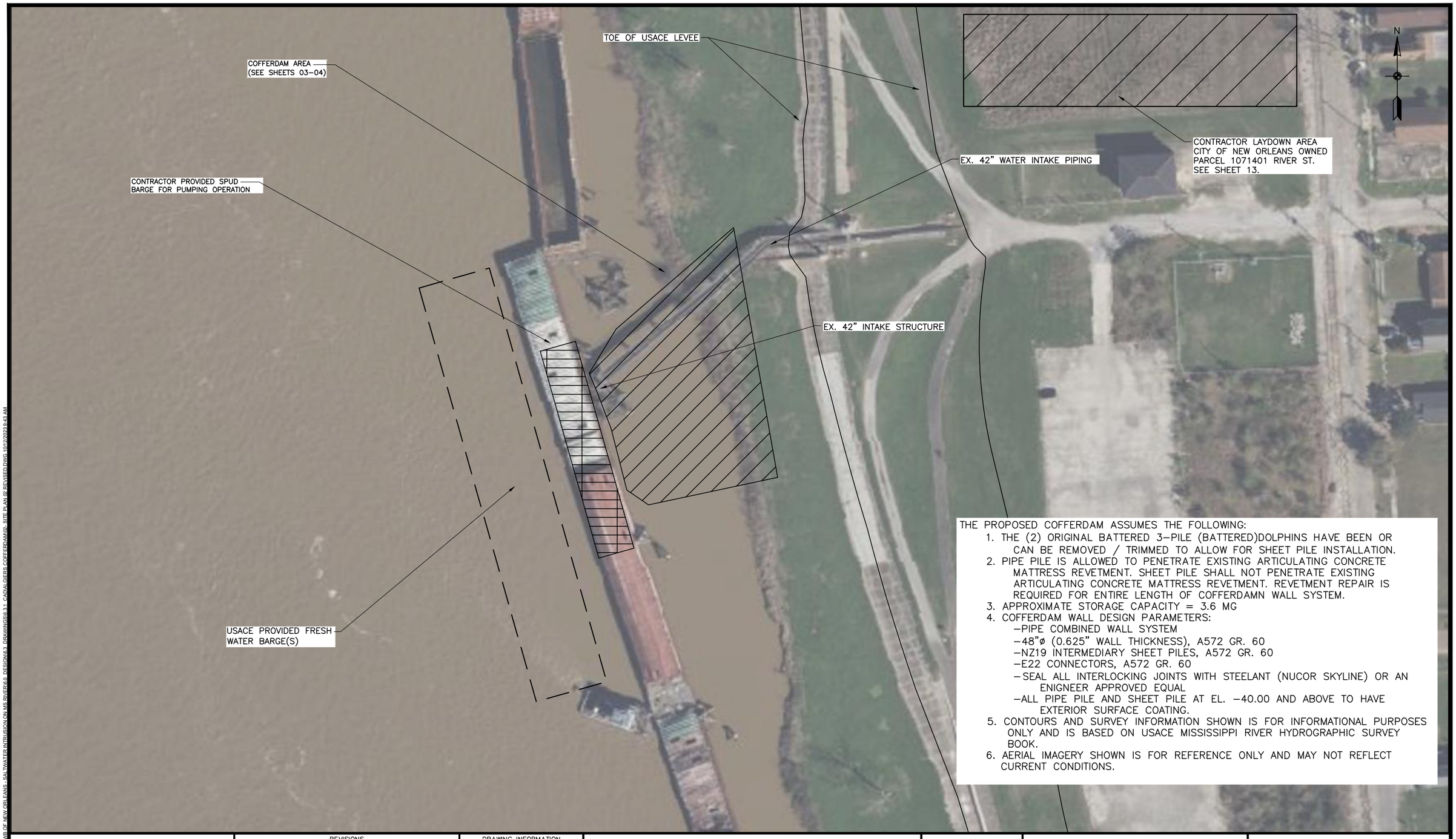
REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

MISSISSIPPI RIVER SALTWATER INTRUSION ALGIERS INTAKE #1

COFFERDAM AND PUMPING OPERATIONS

DR. SG	TITLE SHEET
TRC. DH	
CK. WH	
AP. WDL	DWG. No. **01**
SCALE:	
DATE: 09/29/2023	SET NO. / SHEET NO. 01 OF 12



THE PROPOSED COFFERDAM ASSUMES THE FOLLOWING:

1. THE (2) ORIGINAL BATTERED 3–PILE (BATTERED)DOLPHINS HAVE BEEN OR CAN BE REMOVED / TRIMMED TO ALLOW FOR SHEET PILE INSTALLATION.
2. PIPE PILE IS ALLOWED TO PENETRATE EXISTING ARTICULATING CONCRETE MATTRESS REVETMENT. SHEET PILE SHALL NOT PENETRATE EXISTING ARTICULATING CONCRETE MATTRESS REVETMENT. REVETMENT REPAIR IS REQUIRED FOR ENTIRE LENGTH OF COFFERDAMN WALL SYSTEM.
3. APPROXIMATE STORAGE CAPACITY = 3.6 MG
4. COFFERDAM WALL DESIGN PARAMETERS:
   - –PIPE COMBINED WALL SYSTEM
   - –48"ø (0.625" WALL THICKNESS), A572 GR. 60
   - –NZ19 INTERMEDIARY SHEET PILES, A572 GR. 60
   - –E22 CONNECTORS, A572 GR. 60
   - – SEAL ALL INTERLOCKING JOINTS WITH STEELANT (NUCOR SKYLINE) OR AN ENIGNEER APPROVED EQUAL
   - –ALL PIPE PILE AND SHEET PILE AT EL. –40.00 AND ABOVE TO HAVE EXTERIOR SURFACE COATING.
5. CONTOURS AND SURVEY INFORMATION SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND IS BASED ON USACE MISSISSIPPI RIVER HYDROGRAPHIC SURVEY BOOK.
6. AERIAL IMAGERY SHOWN IS FOR REFERENCE ONLY AND MAY NOT REFLECT CURRENT CONDITIONS.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N–S PROJECT NO.: 18204	
FILENAME:	
SCALE: 1" = 40'	
SURVEYED BY: N/A	
DSGN: DH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: AP	DATE: 10/2023
QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

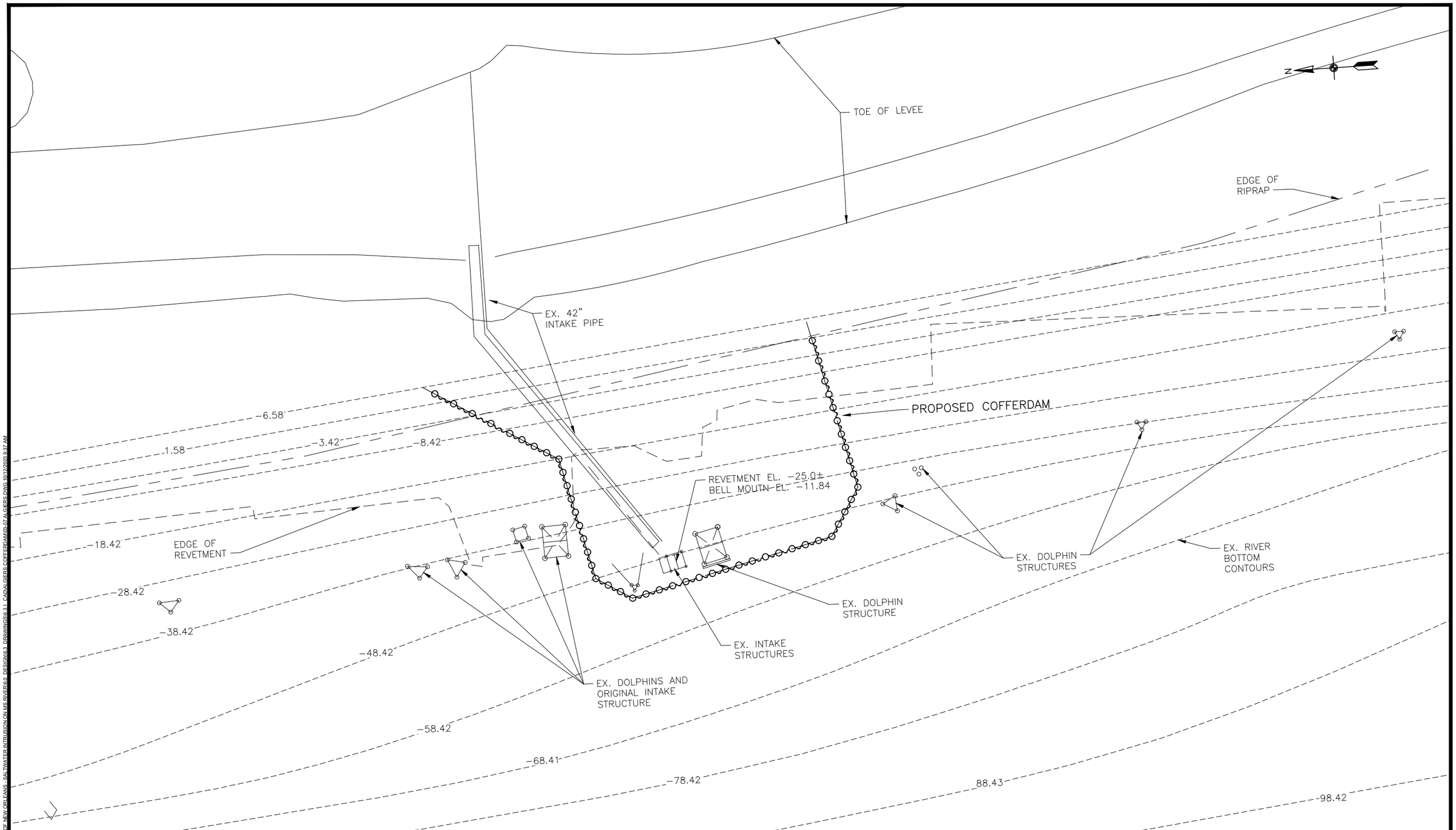
STATE OF LOUISIANA
DAVID J. HEBERT
License No. 30416
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/12/23

NEEL–SCHAFFER
Solutions you can build upon

SITE PLAN

WORKING NUMBER:

SHEET NUMBER: 02



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: DH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: AP	DATE: 10/2023
QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
DAVID J. HEBERT
License No. 30416
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/12/23

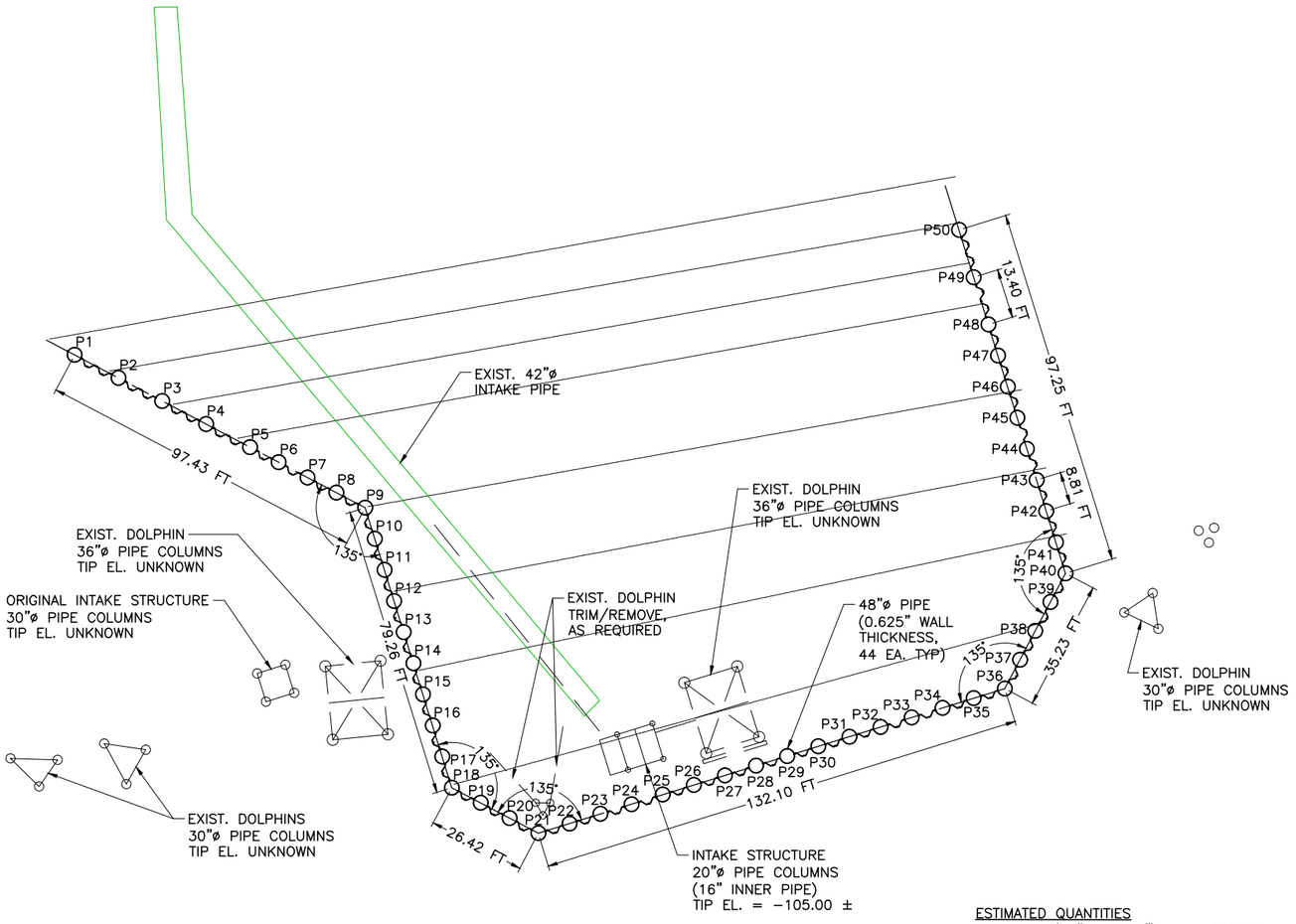
NEEL-SCHAFFER
Solutions you can build upon

PROPOSED COFFERDAM

WORKING NUMBER:

SHEET NUMBER: 03

PIPE PILE SCHEDULE			
PILE	LENGTH (FT)	CUT-OFF EL (FT)	TIP EL (FT)
P1	30.00	9.06	-20.94
P2	30.00	9.06	-20.94
P3	30.00	9.06	-20.94
P4	30.00	9.06	-20.94
P5	60.00	9.06	-50.94
P6	70.00	9.06	-60.94
P7	70.00	9.06	-60.94
P8	70.00	9.06	-60.94
P9	70.00	9.06	-60.94
P10	70.00	9.06	-60.94
P11	80.00	9.06	-70.94
P12	80.00	9.06	-70.94
P13	80.00	9.06	-70.94
P14	90.00	9.06	-80.94
P15	90.00	9.06	-80.94
P16	90.00	9.06	-80.94
P17	100.00	9.06	-90.94
P18	100.00	9.06	-90.94
P19	100.00	9.06	-90.94
P20	100.00	9.06	-90.94
P21	100.00	9.06	-90.94
P22	100.00	9.06	-90.94
P23	100.00	9.06	-90.94
P24	100.00	9.06	-90.94
P25	100.00	9.06	-90.94
P26	100.00	9.06	-90.94
P27	100.00	9.06	-90.94
P28	100.00	9.06	-90.94
P29	100.00	9.06	-90.94
P30	100.00	9.06	-90.94
P31	100.00	9.06	-90.94
P32	100.00	9.06	-90.94
P33	100.00	9.06	-90.94
P34	100.00	9.06	-90.94
P35	100.00	9.06	-90.94
P36	100.00	9.06	-90.94
P37	100.00	9.06	-90.94
P38	100.00	9.06	-90.94
P39	100.00	9.06	-90.94
P40	100.00	9.06	-90.94
P41	90.00	9.06	-80.94
P42	90.00	9.06	-80.94
P43	90.00	9.06	-80.94
P44	80.00	9.06	-70.94
P45	80.00	9.06	-70.94
P46	80.00	9.06	-70.94
P47	70.00	9.06	-60.94
P48	30.00	9.06	-20.94
P49	30.00	9.06	-20.94
P50	30.00	9.06	-20.94
	4,110.00		



COFFERDAM PLAN
SCALE: 1" = 20'

ESTIMATED QUANTITIES

PIPE PILE (48"ø, 0.625")	4,110 FT
CONNECTOR (E22)	3,920 FT
SHEET PILE (NZ19)	10,098 SF

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: DH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: AP	DATE: 10/2023
QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
DAVID J. HEBERT
License No. 30416
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/12/23

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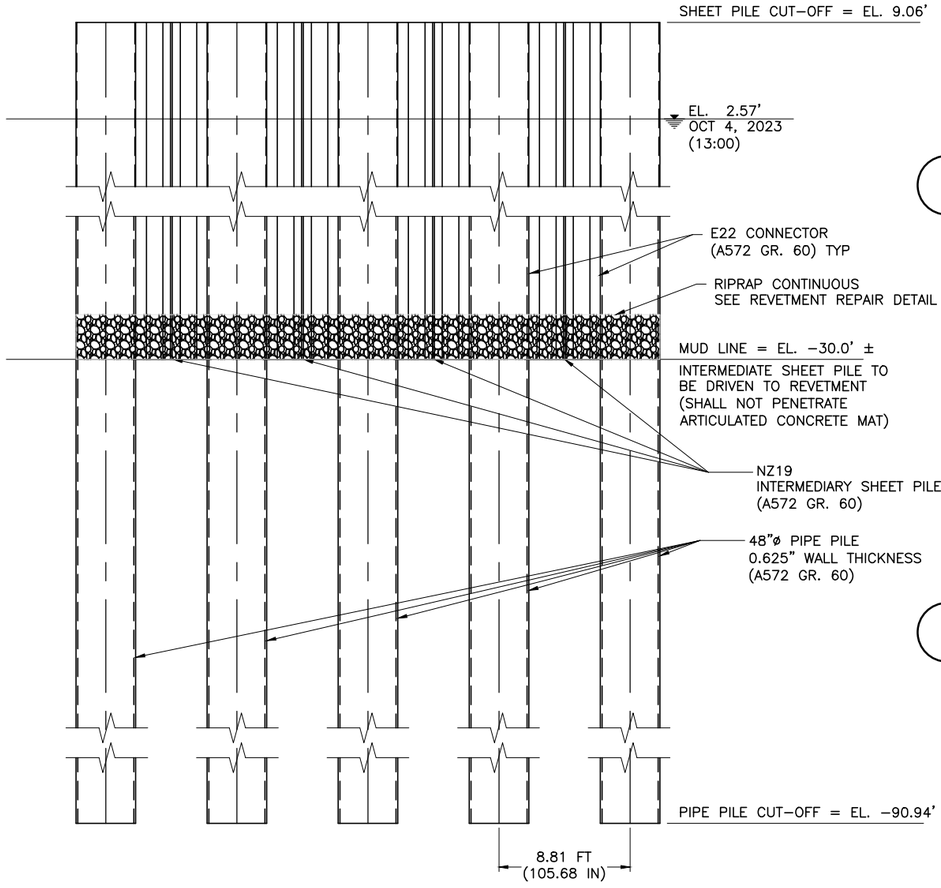
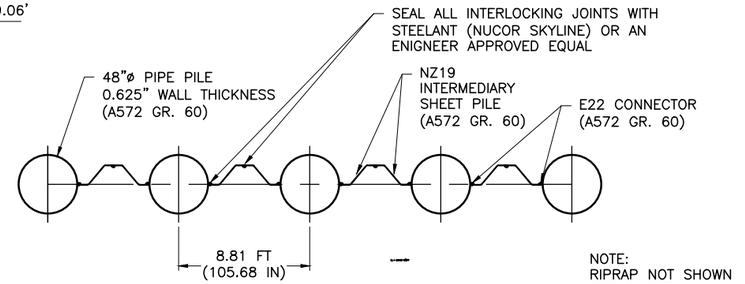
PROPOSED COFFERDAM ALIGNMENT

WORKING NUMBER:

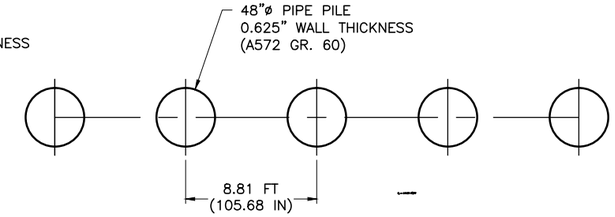
SHEET NUMBER: 04



PIPE COMBINED WALL PARTIAL ELEVATION
(LOOKING EAST)
SCALE: 1" = 5'



PIPE COMBINED WALL PLAN
(ABOVE REVETMENT)
PIPE–Z WITH E22 CONNECTOR SYSTEM



PIPE PILE PLAN
(BELOW REVETMENT)

REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N–S PROJECT NO.: 18204	
				FILENAME:	
				SCALE:	
				SURVEYED BY: N/A	
				DSGN: DH	DATE: 10/2023
				DRWN: SG	DATE: 10/2023
				CHKD: AP	DATE: 10/2023
				QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
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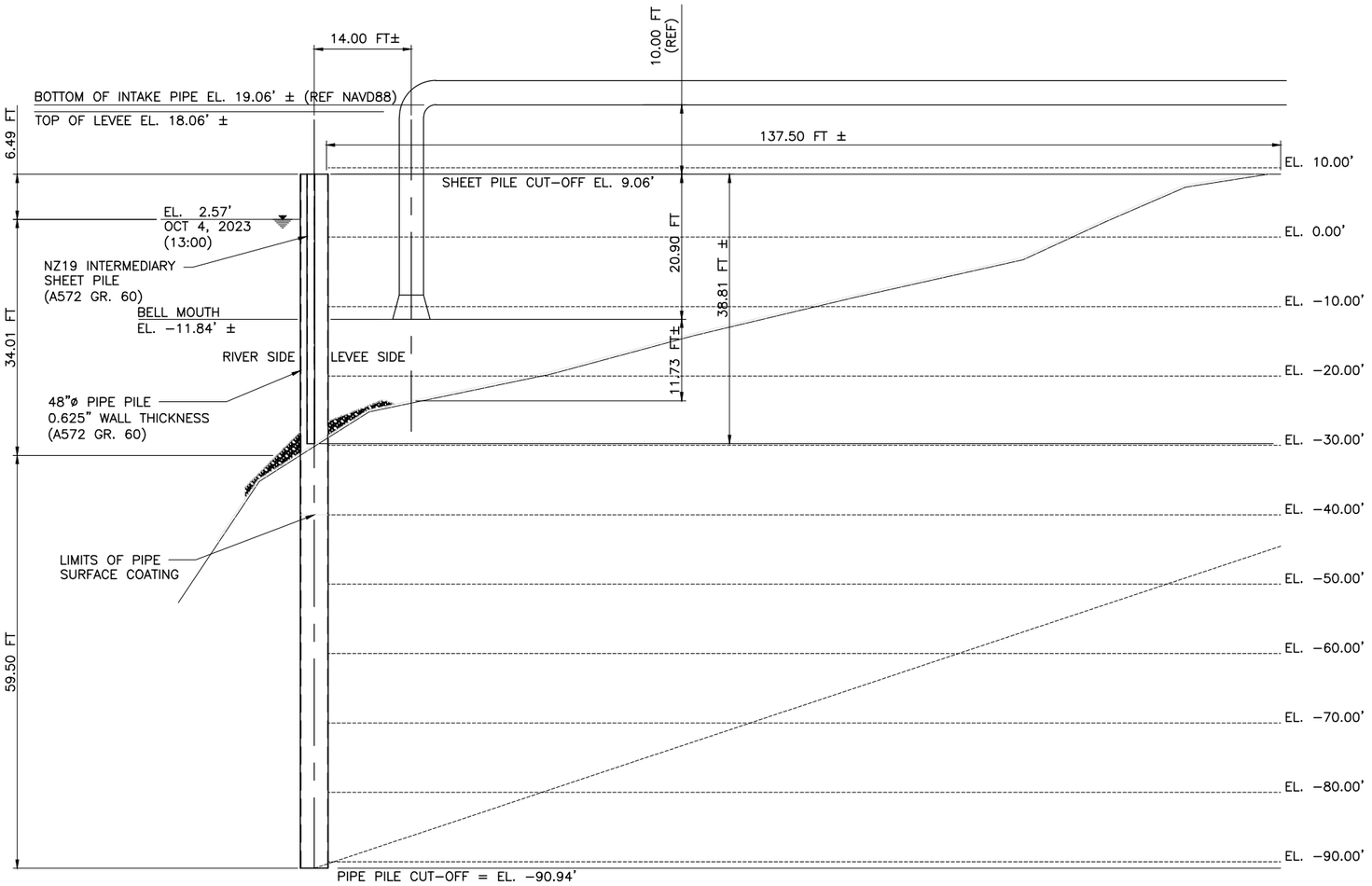
ELEVATION & DETAILS

WORKING NUMBER:

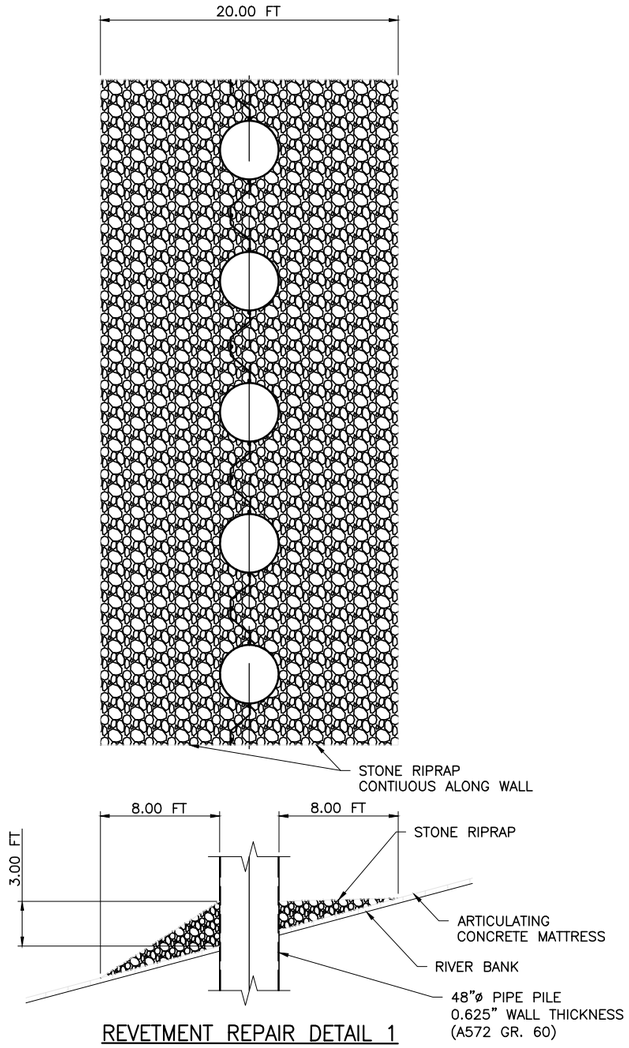
SHEET NUMBER: 05



SECTION

SCALE: 1" – 5'

NOTES:
1. ALL INTERMEDIARY SHEET PILE TO BE DRIVEN TO REVETMENT.
2. INTERMEDIARY SHEET PILE SHALL NOT PENETRATE ARTICULATED CONCRETE MAT.
3. FOR PIPE PILE PENETRATION, SEE REVETMENT REPAIR DETAIL 1.
4. ALL PIPE PILE SHALL INCLUDE EXTERIOR SURFACE COATING (EL. -40.0 OR 10 FEET BELOW MUDLINE/REVETMENT).
5. ALL PIPE PILE AND SHEET PILE CONNECTIONS SHALL INCLUDE INTERLOCK SEALANT.



REVETMENT REPAIR DETAIL 1

SCALE: 1" – 10'

NOTES:

1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40% TO 60% OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.
2. WHEN PENETRATING THE UPPER BANK PAVING IN A REVEMENT AREA WITH PILES, CAISONS AND/OR PILE CLUSTERS, A 10-INCH THICK RIPRAP STONE LAYER SHALL BE PLACED OVER ALL AREAS WHERE THE BANK IS DISTURBED BY DRIVING OPERATIONS.
3. WHEN USING AN ANCHOR CHAIN BUOY SYSTEM, THE ANCHOR CHAIN MUST BE ATTACHED AT THE TOP OF THE PILE TO MINIMIZE REVETMENT DAMAGE.

REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 18204	
				FILENAME:	
				SCALE:	
				SURVEYED BY: N/A	
				DSGN: DH	DATE: 10/2023
				DRWN: SG	DATE: 10/2023
				CHKD: AP	DATE: 10/2023
				QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
DAVID J. HEBERT
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10/12/23

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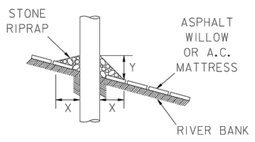
SECTION & DETAILS

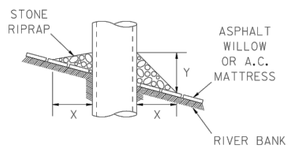
WORKING NUMBER:

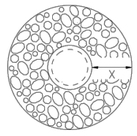
SHEET NUMBER: 06

PILE

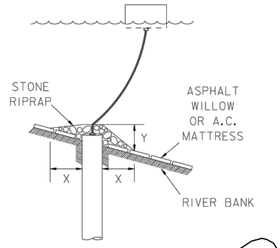


CAISSON

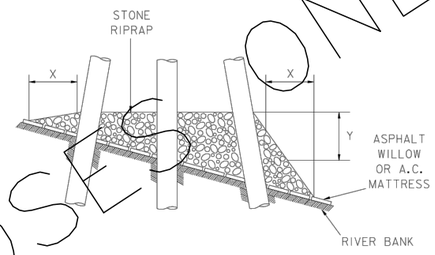


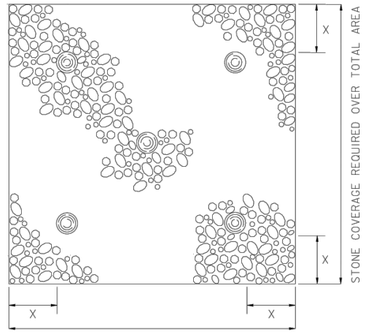


SPUD PILE (BUOY AND ANCHOR CHAIN)



PILE CLUSTER





STONE COVERAGE REQUIRED OVER TOTAL AREA

DEPTH OF WATER IN FEET AT POINT OF PENETRATION AT TIME OF STONE PLACEMENT	DIMENSIONS IN FEET FOR PROTECTION AREA REQUIRED							
	PILE		CAISSON		SPUD PILE (BUOY AND ANCHOR CHAIN)		PILE CLUSTER	
	X	Y	X	Y	X	Y	X	Y
1′ - 10′	3	1.5	5	2			3	1
11′ - 40′	5	2	8	3	7	3	6	2
41′ - 60′	8	3	12	4	12	4	10	3

NOTES:

1. SIZE OF RIPRAP TO VARY BETWEEN 6 POUNDS AND 125 POUNDS WITH 40 PERCENT TO 60 PERCENT OF THE STONE WITHIN THE RANGE OF 25 POUNDS TO 75 POUNDS.
2. WHEN PENETRATING THE UPPER BANK PAVING IN A REVETMENT AREA WITH PILES, CAISSONS AND/OR PILE CLUSTERS, A 10 INCH THICK RIPRAP STONE LAYER SHALL BE PLACED OVER ALL AREAS WHERE THE BANK PAVING IS DISTURBED BY DRIVING OPERATIONS.
3. WHEN USING AN ANCHOR CHAIN AND BUOY SYSTEM, THE ANCHOR CHAIN MUST BE ATTACHED AT THE TOP OF THE PILE TO MINIMIZE REVETMENT DAMAGE.

US Army Corps of Engineers New Orleans District

U. S. ARMY ENGINEER DISTRICT, NEW ORLEANS
CORPS OF ENGINEERS
NEW ORLEANS, LOUISIANA

DESIGNED BY: BER
DRAWN BY: JDM
CHK'D BY:
DATE: 6-15-99
PLOT SCALE: 1=1
PLOT DATE: 6-15-99
DESIGN FILE NAME:

REVISIONS

NO.	DATE	BY	DESCRIPTION

REPAIR PROCEDURES REQUIRED WHEN PENETRATING REVETMENTS WITH PILES, CAISSONS AND/OR PILE CLUSTERS

FILE NUMBER H-18-45204
DWG. 1 OF 1

DRAWING INFORMATION

N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: DH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: AP	DATE: 10/2023
QA/QC: WDL	DATE: 10/2023

ALGIERS INTAKE #1 COFFERDAM AND PUMPING OPERATION

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
DAVID J. HEBERT
License No. 30416
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
10/12/23

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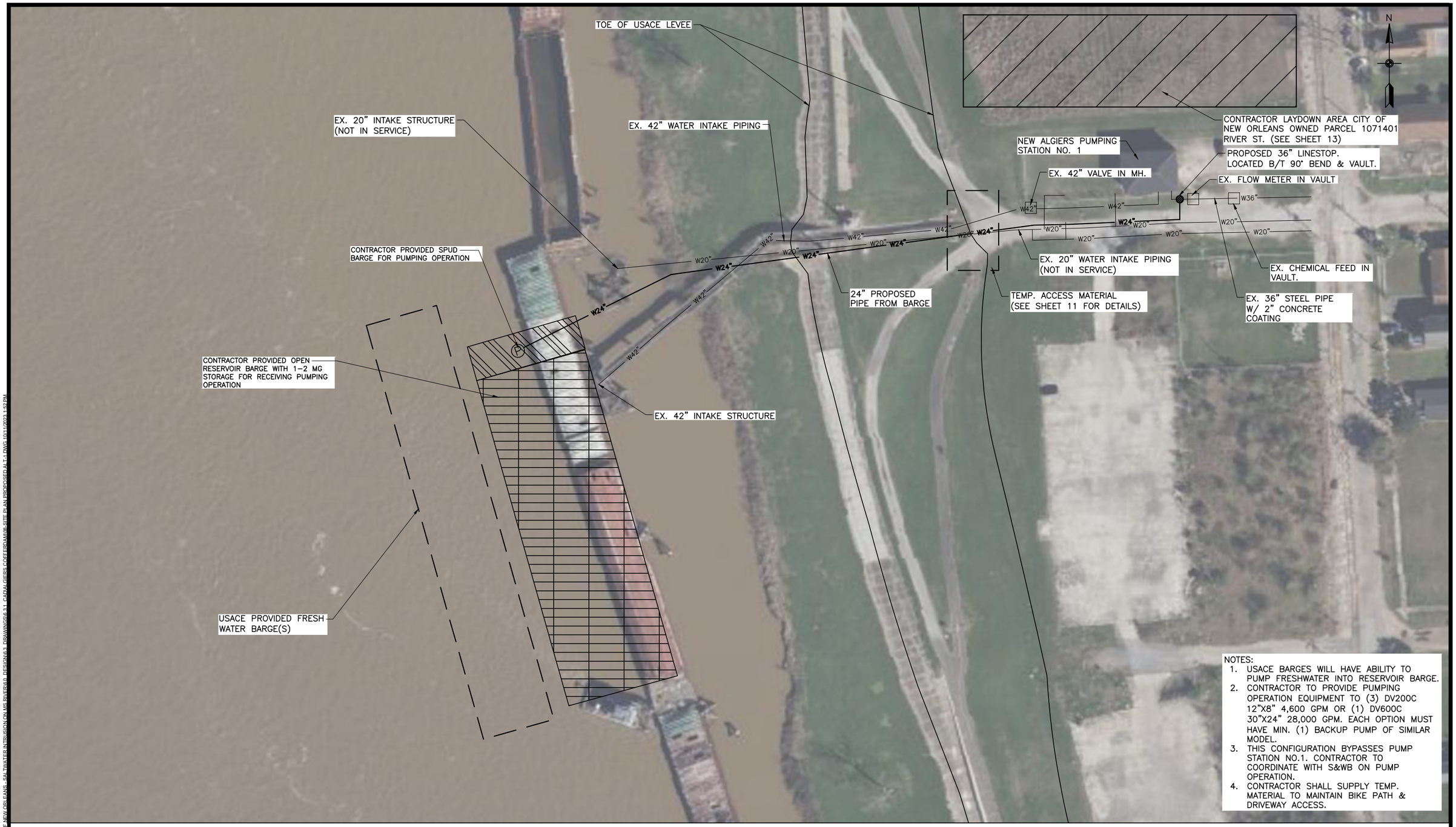
USACE REVETMENT REPAIR DETAILS

WORKING NUMBER:

SHEET NUMBER: 07



NOTES:
1. USACE BARGES WILL HAVE ABILITY TO PUMP FRESHWATER INTO RESERVOIR BARGE.
2. CONTRACTOR TO PROVIDE PUMPING OPERATION EQUIPMENT TO (3) DV200C 12"X8" 4,600 GPM OR (1) DV600C 30"X24" 28,000 GPM. EACH OPTION MUST HAVE MIN. (1) BACKUP PUMP OF SIMILAR MODEL.
3. THIS CONFIGURATION BYPASSES PUMP STATION NO.1. CONTRACTOR TO COORDINATE WITH S&WB ON PUMP OPERATION.
4. CONTRACTOR SHALL SUPPLY TEMP. MATERIAL TO MAINTAIN BIKE PATH & DRIVEWAY ACCESS.

REVISIONS				DRAWING INFORMATION	
NO.	DATE	BY	DESCRIPTION	N-S PROJECT NO.: 18204	
				FILE	
				SCALE: 1"=40'	
				SURVEYED BY: N/A	
				DSGN: WH	DATE: 10/2023
				DRWN: SG	DATE: 10/2023
				CHKD: WDL	DATE: 10/2023
				QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1
36" LINE STOP & PUMPING OPERATIONS
NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
WARREN D. HUGGINS
License. No. 42443
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
10/12/2023

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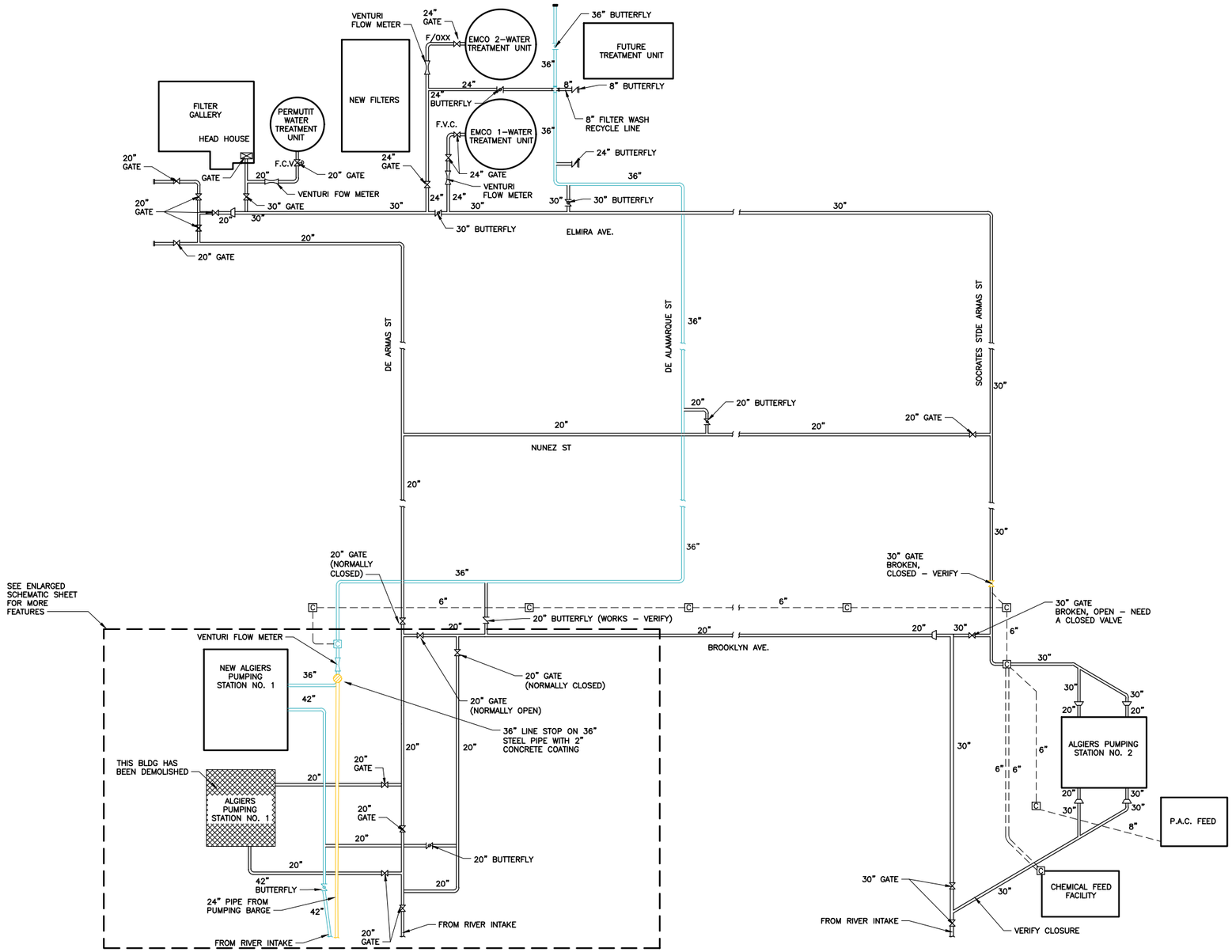
OVERALL SITE PLAN

WORKING NUMBER: 18204

SHEET NUMBER: 08



REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: WH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: WDL	DATE: 10/2023
QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1
36" LINE STOP & PUMPING OPERATIONS

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
WARREN D. HUGGINS
License. No. 42443
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
10/12/2023

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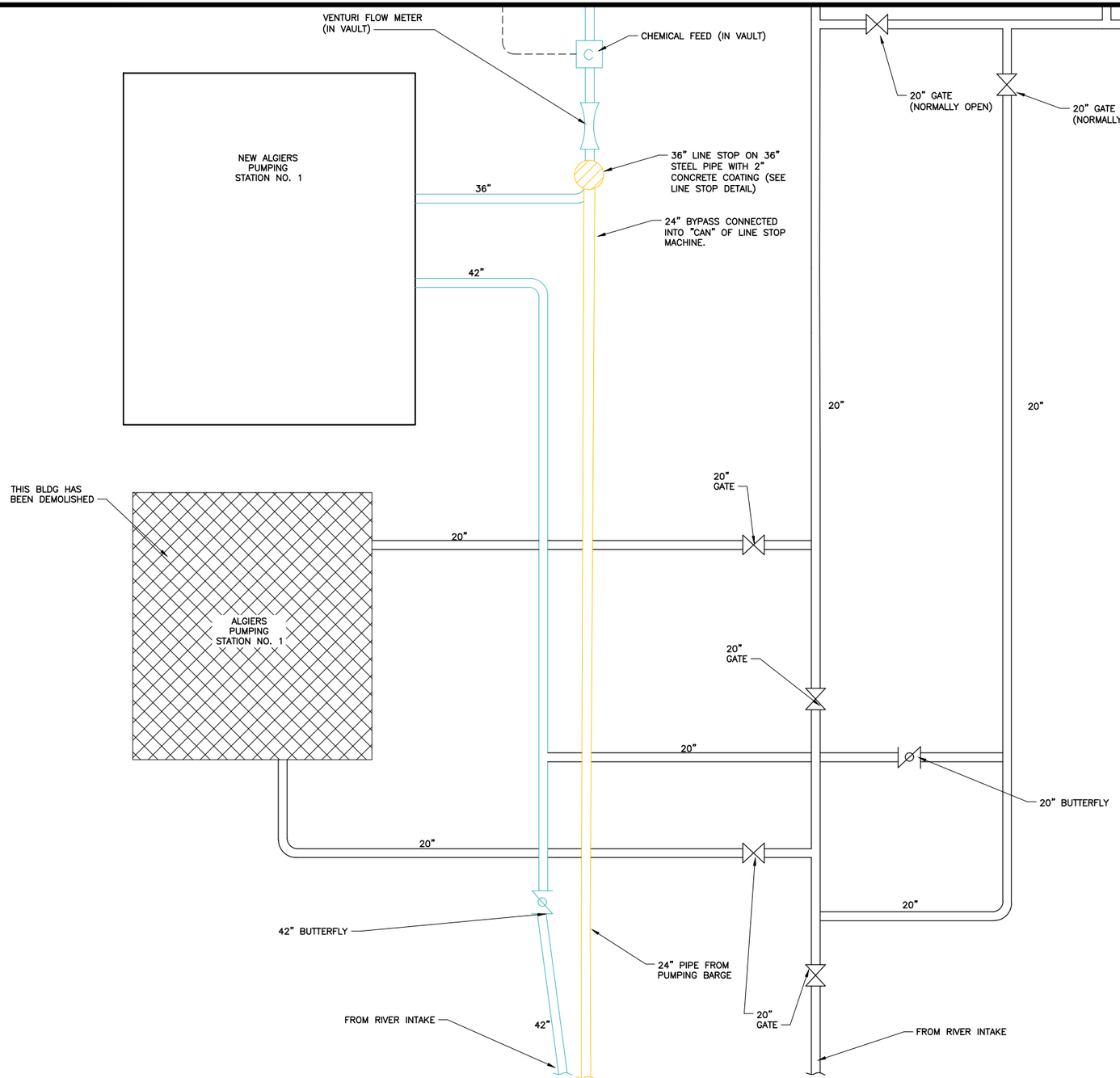
OVERALL SCHEMATIC

WORKING NUMBER: 18204

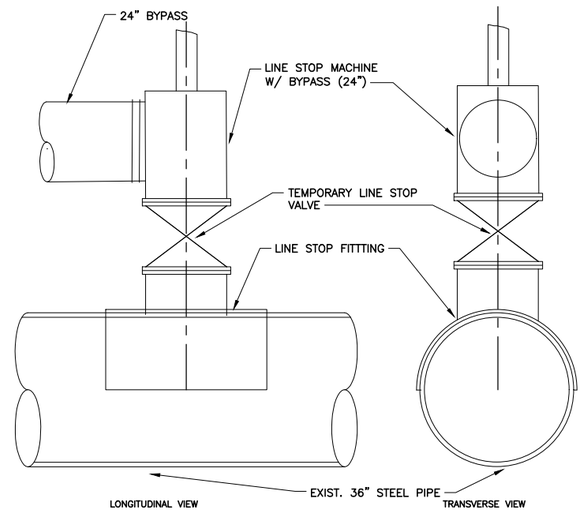
SHEET NUMBER: 09

Y:\PROJECTS\0015000\0018000\18204 SWB OF NEW ORLEANS - SALTWATER INTRUSION ON MS RIVER\8.0 DESIGN\8.3 DRAWINGS\8.3.1 CAD\ALGIERS COFFERDAM\09-10 SCHEMATIC LAYOUT PROPOSED ALT-1.DWG 10/11/2023 12:12 PM



LEGEND:

- ALGIERS INTAKE #1 (CURRENT ROUTE)
- PROPOSED ALTERNATE



LINE STOP DETAIL

NOTE:

1. 36" EX. STEEL PIPE HAS 2" CONCRETE COATING
2. DETAIL SHOWS HALF SADDLE, FULL SADDLE MAY BE REQUIRED DEPENDING ON CONDITION OF STEEL PIPE.
3. EX. STEEL PIPE ORIGINALLY INSTALLED IN 1984.
4. LINE STOP MACHINE TO HAVE CAPABILITIES TO BYPASS 24" PIPE.
5. LINE STOP SHALL REMAIN IN PLACE FOR ENTIRETY OF PROJECT.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: WH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: WDL	DATE: 10/2023
QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1
36" LINE STOP & PUMPING OPERATIONS

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
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10/12/2023

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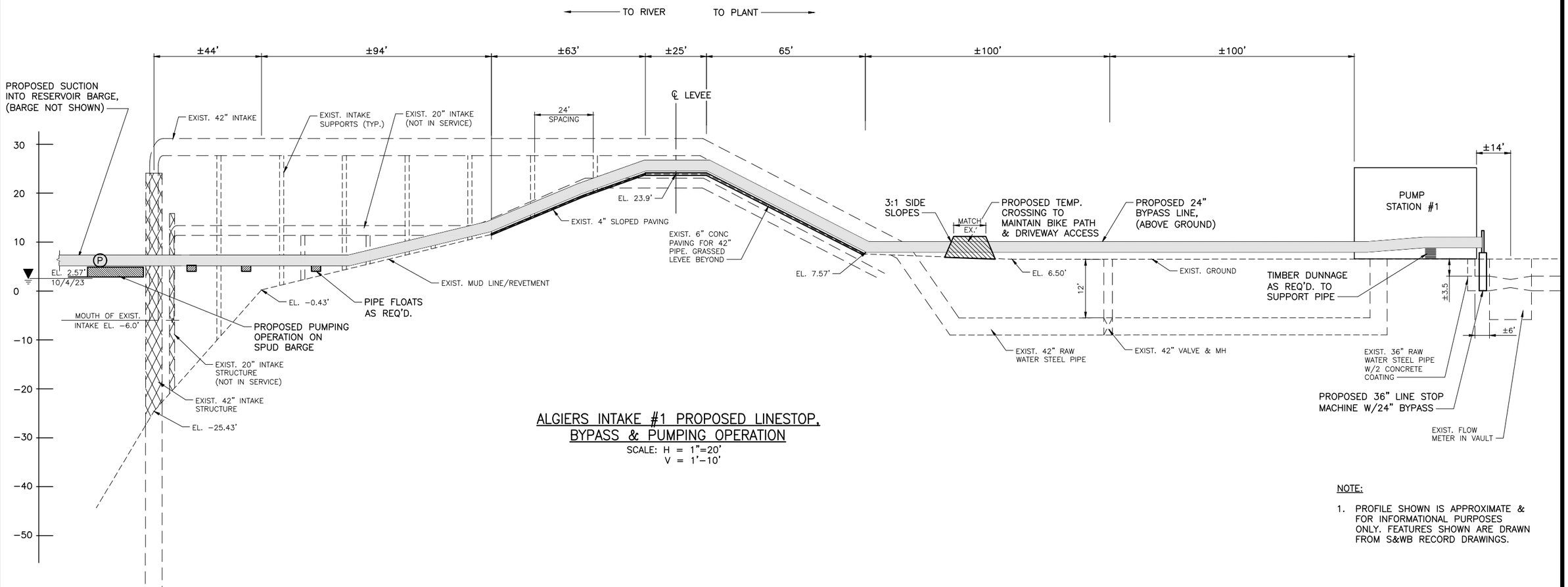
ENLARGED SCHEMATIC

WORKING NUMBER:	SHEET NUMBER:
18204	10

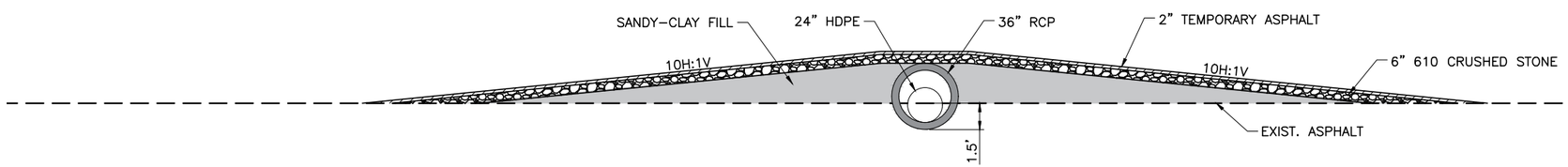


ALGIERS INTAKE #1 PROPOSED LINESTOP, BYPASS & PUMPING OPERATION

SCALE: H = 1"=20'
V = 1'−10'

NOTE:

1. PROFILE SHOWN IS APPROXIMATE & FOR INFORMATIONAL PURPOSES ONLY. FEATURES SHOWN ARE DRAWN FROM S&WB RECORD DRAWINGS.



BIKE PATH DRIVEWAY CROSSING

SCALE: 1/4" = 1'−0"

NOTE:

1. DAMAGE TO ASPHALT PATHWAY TO BE REPAIRED UPON COMPLETION OF PROJECT
2. PLACE W8−1 "BUMP" SIGNS ON EACH SIDE OF TEMPORARY CROSSING. SIGN SHALL BE 18" X 18" AND SET BACK 100'.

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N−S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: WH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: WDL	DATE: 10/2023
QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1 36" LINE STOP & PUMPING OPERATIONS

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
WARREN D. HUGGINS
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10/12/2023

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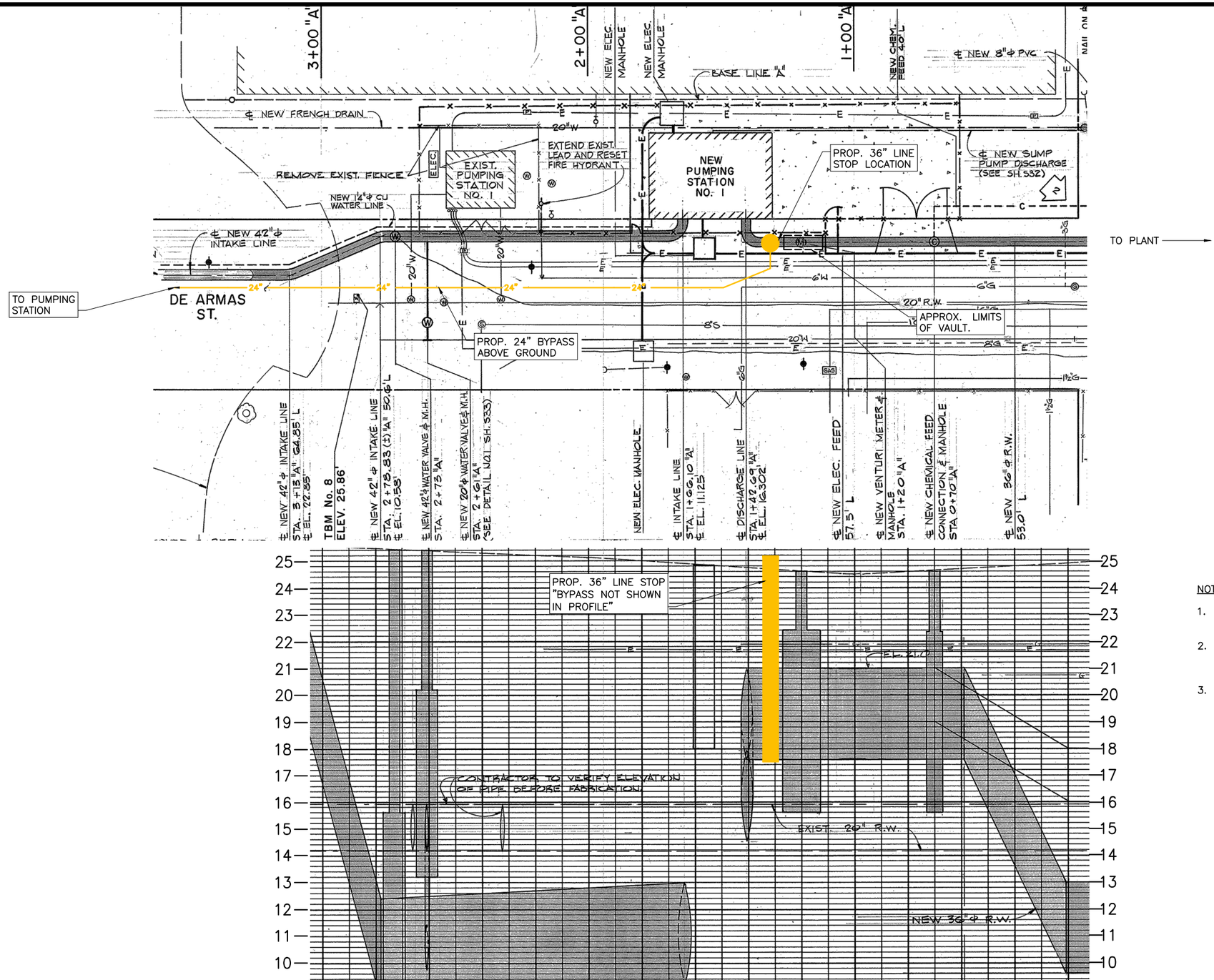
TYPICAL PROFILE

WORKING NUMBER:	SHEET NUMBER:
18204	11

V:\PROJECTS\18204\0000\0100\PS\SWB OF NEW ORLEANS - SOUTHWATER INTRUSION ON MS RIVER\0_0 DESIGN\A_DRAWINGS\A_0.1_CAPACITIES\PROPOSED PROFILE.DWG 10/11/2023 3:58 PM



N

SCALE: 1" = 20'

NOTE:

1. ELEVATION SHOWN ARE IN CAIRO DATUM. SUBTRACT 20.43' FOR MSL.
2. COMPLETE SET OF RECORD DRAWINGS WILL BE MADE AVAILABLE UPON REQUEST FROM CONTRACTOR.
3. REMOVAL OF EX, FENCE MAY BE REQUIRED FOR LINESTOP & RESTORATION OF SITE SHALL CONSIDERED INCIDENTAL TO THE WORK (AT NO DIRECT PAY)

REVISIONS

NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION

N-S PROJECT NO.: 18204	
FILENAME:	
SCALE:	
SURVEYED BY: N/A	
DSGN: WH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: WDL	DATE: 10/2023
QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1
36" LINE STOP & PUMPING OPERATIONS
NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
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10/12/2023

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RECORD DRAWING
PLAN/PROFILE

WORKING NUMBER: 18204

SHEET NUMBER: 12

ALGIERS TEMPORARY LAYDOWN YARD – NOTES

1. INSTALL NEW 9 FOOT CHAIN LINK FENCE ALONG BROOKLYN (ALGIERS INTAKE STATION TO DANA ST OFFSET 32 FEET FROM THE RIVER SIDE STEEL RAIL.
2. INSTALL NEW 9 FOOT CHAIN LINK FENCE ALONG LEVEE OFFSET 30 FEET FROM THE TOE OF THE LEVEE.
3. INSTALL CHAIN LINK GATES IN THREE LOCATIONS AS INDICATED.
4. CONTRACTOR TO IMPORT 8" OF SAND FILL OF MISSISSIPPI RIVER PUMP SAND TO LEVEL SITE.
5. CONTRACTOR SHALL PROVIDE LIGHTING, SECURITY, ETC TO MAINTAIN SITE 24/7 FOR DURATION OF EVENT.
6. SEE RECORD DRAWING 11540–W–20 SHEET S10 FOR TYPICAL FENCING DETAILS

REVISIONS			
NO.	DATE	BY	DESCRIPTION

DRAWING INFORMATION	
N–S PROJECT NO.: 18204	
FILENAME:	
SCALE: 1" = 30'	
SURVEYED BY: N/A	
DSGN: WH	DATE: 10/2023
DRWN: SG	DATE: 10/2023
CHKD: WDL	DATE: 10/2023
QA/QC: AP	DATE: 10/2023

ALGIERS INTAKE #1
36" LINE STOP & PUMPING OPERATIONS

NEW ORLEANS, LOUISIANA

STATE OF LOUISIANA
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10/12/2023

NEEL–SCHAFFER
Solutions you can build upon

ALGIERS TEMPORARY LAYDOWN AREA

WORKING NUMBER: 18204

SHEET NUMBER: 13

AF 12739

MISSISSIPPI RIVER
FLOW

S.& W.B. PROPERTY LINE

EXIST. S. & W. B. RESERVOIR

NEW RIVER INTAKE STRUCTURE & LINE

EXIST. PUMPING STATION NO. 1

MISSOURI PACIFIC R.R.

EXIST. MOORED BARGES

NEW PROTECTION DOLPHINS

USCE ℄
STA. 10+49.24

NEW PUMPING STATION NO. 1

EXIST. N.O.P.S.I. GAS GOVERNOR STATION

EXIST. UNDERGROUND ELECTRICAL DUCT BANK

NEW UNDERGROUND ELECTRICAL DUCT BANK

NEW 36" ϕ DISCHARGE LINE

DIANA ST.

DE ARMAS ST.

LAMARQUE ST.

SOCRATES ST.

BROOKLYN AVE.

TECHE ST.

NUNEZ ST.

VERRET ST.

VALLETTE ST.

BELLEVILLE ST.

PACIFIC AVE.

ELMIRA AVE.

EXIST. STATION "C" WATER TREATMENT PLANT

183 182 181 180 179 178

216 217 218 219 221 222

186 187 188 189 190 191

215 214 213 211 210

2
NEW CHEMICAL FEEDER

EXIST. PUMPING STATION NO. 2

NEW REINFORCED CONC. TANK

NEW P.A.C. BLDG.

EXIST. CHEMICAL STORAGE BLDG.

EL.+20.43'

0'		
10'	CONC. / WOOD	q_u (lbs/sf)
20'		895
30'		1875
		1000
40'		720
50'		935
		335
60'		545
		1110
70'		4830
		3845
80'		2155
	WOOD	
90'		C = 105 Ø = 5
		3665
100'		2500
		2955
110'		1930
		3065

LOG OF BORING
B-1

CLAY SILT SAND

PREDOMINANT TYPE BOLD
MODIFYING TYPE LIGHT

SEE SH. S2 FOR LOCATION

VICINITY MAP
N.T.S.

EXIST. INTAKE STRUCTURE
EXIST. RESERVOIR
EXIST. TREATMENT PLANT
MISSISSIPPI RIVER
FLOW
SITE OF WORK
GREATER NEW ORLEANS BRIDGE
ORLEANS PARISH
JEFFERSON PARISH
N

SECTION NO. / SHEET NO. SECTION IS CUT ON
2-5
S6
SHEET NO. SECTION APPEARS ON

LEGEND

EXIST. RAW WATER LINES (20" & 30")	NEW RAW WATER LINE (42" INTAKE & 36" DISCHARGE)
EXIST. WATER VALVE	NEW TIE WITH VALVE AND MANHOLE
EXIST. ELECTRICAL DUCT BANK	NEW ELECTRICAL DUCT BANK
EXIST. ELECTRICAL MANHOLE	NEW ELECTRICAL MANHOLE
EXIST. CHEMICAL FEEDER	NEW ELECTRICAL MANHOLE ON EXIST. DUCT BANK
	NEW CHEMICAL FEEDER
	NEW CHEMICAL FEEDER MANHOLE

SECTION DESIGNATION

REV.	DATE	DESCRIPTION	BY
2	12/10/84	RELOCATED CHEM. FEED LINE	MFL,JR.
1	11/20/84	RELOCATED INTAKE	MFL,JR.

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Meinrad F. Lang

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

GENERAL LAYOUT

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	MFL Jr-ARC
AP.	
SCALE	1"= 100'
DATE	OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 1

BRUNING 40-22 55857

AF 12739

ACCESS RAMP CURVE DATA

CURVE NO.	RADIUS (FT.)	Δ	CURVE LENGTH (FT.)	CHORD (FT.)
1	120.00	29° 56' 33"	62.71	62.00
2	40.50	34° 28' 14"	24.36	24.00
3	37.65	60° 17' 04"	39.62	37.82
4	100.00	30° 47' 36"	53.10	53.10

ACCESS RAMP CENTERLINE DATA

POINT DESCRIPTION	DISTANCE (FT.)	USCE B/L STATION	⊥ OFFSET FROM USCE B/L (FT.)
① P.O.T.		13 + 52.86	0.00
	152.60		
② P.C.		12 + 10.64	55.32
	32.09		
③ P.I.		11 + 80.73	66.94
	32.09		
④ P.C.		11 + 60.61	91.94
	12.56		
⑤ P.I.		11 + 52.74	101.73
	12.56		
⑥ P.C.		11 + 40.71	105.35
	21.86		
⑦ P.I.		11 + 19.78	111.64
	21.86		
⑧ P.T.		11 + 03.94	96.57
	24.00		
⑨ P.C.		10 + 86.56	80.03
	27.54		
⑩ P.I.		10 + 66.59	61.05
	27.54		
⑪ P.T.		10 + 29.21	52.06
	127.80		
⑫ P.O.T.		9 + 12.49	0.00

EXIST. DOLPHIN

(PROPERTY OF CAPITAL MARINE SUPPLY, INC.)

℄ NEW INTAKE STRUCTURE B/L "A" STA.

℄ EXIST. INTAKE STRUCTURE B/L "A" STA. 6+16.2

INTERSECTION ℄ PILE BENT & EDGE WALKWAY B/L "A" STA.

℄ PILE BENT B/L "A" STA.

SECURITY FENCE & GATE B/L "A" STA. 5+01.41

USCE B/L STA. 13+52.86

AZ 176° 52' 37" N 3° 07' 23" W

APPROX. LEVEE TOE

℄ NEW ACCESS RAMP

HOUSTON

IV ON 3 H

R/W

1-2 S6

EXIST. S. & W.B. RESERVOIR

EXIST. UTILITY POLE (TO BE REMOVED BY OTHERS) B/L "A" STA. 3+42.7 (60.4' L)

℄ PILE BENT B/L "A" STA. 4+63.91

EDGE PAVING B/L "A" STA. 4+84.41

B/L "A" STA. 4+27.86 = USCE B/L STA. 11+09.47

EXIST. VALVE BOX & LINES TO BE REMOVED 4+08.00

℄ 42" ϕ INTAKE PIPE B/L "A" STA. 3+18.00 (64.85' L)

℄ 42" ϕ INTAKE PIPE B/L "A" STA. 2+78.83 ± (50.6' L)

℄ 42" ϕ INTAKE PIPE B/L "A" STA. 1+66.10 (50.6' L)

℄ NEW FRENCH DRAIN (SEE SH. S9 FOR LIMITS)

BASELINE "A"

EXIST. DOLPHINS

SEE MARK 2 SH. S33

USCE B/L STA. 11+55.05

PIPE BARRICADE (TYP.)

R.C. SLOPE PAVING - RUN TO TOE OF LEVEE 26.33' 29'

IV ON 10H

EXIST. PUMPING STATION NO. 1

ELEC.

NEW 14" ϕ CU WATER LINE

NEW PUMPING STATION NO. 1

SEE SHEETS S9 & S41 FOR SITE DETAILS & DIMS.

BORING B-2 SEE SH. S15

℄ NEW SUMP PUMP DISCHARGE (SEE SH. S32)

PROPERTY LINE

NEW 42" ϕ INTAKE PIPE

NEW 36" ϕ DISCHARGE PIPE

DE ARMAS ST.

20" R.W.

6"W

6" G

8"S

8" G

BORING B-1 SEE SH. S1

CITY OF N.O. R/W

NEW PROTECTION DOLPHIN

EXIST. 20" ϕ INTAKE LINE

℄ EXIST. 20" ϕ INTAKE USCE B/L STA. 11+21.72

℄ NEW INTAKE USCE B/L STA. 11+34.72

℄ SECURITY FENCE & GATE

NEW 5' PRECAST CONC. WALKWAY

USCE B/L STA. 10+91.05'

SIDE SLOPE 1V ON 3H

28.0

32.0

30.0

USCE B/L STA. 10+49.24 (P.I.)

℄ NEW ACCESS RAMP

STONE RIP-RAP LEVEE SLOPE PROTECTION

ADDITIONAL 65' R/W

EXIST. DOLPHIN TO REMAIN

℄ NEW INTAKE PROJECTED B/L STA. 10+27.74

N75°07'37"E

EXIST. DOLPHIN TO BE REMOVED

℄ NEW INTAKE STRUCTURE

APPROX. LIMITS OF EXIST. FORESHORE PROTECTION

PROJECTED B/L STA. 10+27.74

AZ 161° 58' 44" N 14° 12' 02" W

USCE LEVEE R/W

2-2 S6

IV ON 10H MIN.

IV ON 3H

APPROX. LIMITS OF EXIST. REVETMENT

NEW PROTECTION DOLPHIN

65' CLEAR

CONC. PAVED LEVEE SLOPE PROTECTION

EXIST. SPAR BARGE

(PROPERTY OF CAPITAL MARINE SUPPLY, INC.)

USCE B/L STA. 9+12.49

US. ARMY CORPS OF ENGRS LEVEE BASELINE

APPROX. TOE OF LEVEE

T.S.M. NO. 8 B/L "A" STA. 2+87.50 (74.2' L)

EL. 25.86' N.E. CORNER WATER VALVE M.H. FRAME

N.O.P.S.I. GAS GOVERNOR STATION

FILL W/ CONC.

FULL PEN. TYP. ALL JOINTS

10.750" O.D. x .5"

6.625" O.D. x .432"

4.5" O.D. x .237"

4#5 T&B

7#5 T&B

3" CLR.

4'-0"

2'-0"

12"

3" CLR. TYP.

1'-0" 1'-10" 11" 3"

4'-0"

PLAN - PIPE BARRICADE

1/2" = 1'-0"

GENERAL NOTES

1) ALL ELEVATIONS SHOWN HEREIN REFER TO CAIRO DATUM. (100.43 FT. CAIRO DATUM = 0.00 FT. M.S.L.)
2) AZIMUTHS ON USCE BASELINE ARE TURNED CLOCKWISE FROM 0° SOUTH.
3) CONTRACTOR COORDINATE CONSTRUCTION SCHEDULE WITH NEW ORLEAN'S SEWERAGE & WATER BOARD FOR RELOCATION OF EXIST. SPAR BARGES AT NEW INTAKE STRUCTURE.
4) CONTRACTOR VERIFY PILE BENT CENTERS AS DRIVEN PRIOR TO FABRICATION OF PRECAST CONC. WALKWAY UNITS.
5) EXCAVATED MATERIAL AT NEW PUMPING STATION NO.1 MAY BE USED FOR LEVEE AND/OR RAMP FILL AS APPLICABLE TO SPECIFICATIONS FOR LEVEE AND RAMP EMBANKMENT. CONTRACTOR TO SECURE OTHER APPROVED BORROW AREAS FOR REMAINDER OF EMBANKMENT CONSTRUCTION AS PER SPECIFICATIONS.
6) CONTRACTOR VERIFY PRECAST CONC. DESIGN SHOWN THESE DWGS. W/ PRECAST CONC. FABRICATOR. ANY REVISIONS MADE TO PRECAST CONC. ELEMENTS SHOWN THESE DWGS, TO BE APPROVED BY ENGINEER PRIOR TO THEIR FABRICATION.
7) CONTRACTOR SHALL REMOVE AND DISPOSE OF EXIST. FENCE AROUND EXIST. STATION NO.1. NEW FENCE AND GATE SHALL BE INSTALLED AS SHOWN AND THE EXTERIOR OF EXIST. STATION NO.1 SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH THE PAINTING SPECIFICATIONS FOR NEW STATION NO.1. EXIST. FENCE SHALL REMAIN AROUND EXIST. STATION NO.1 UNTIL REMOVAL IS NECESSITATED BY THE INSTALLATION OF THE NEW FENCE. THE CONTRACTOR SHALL MAINTAIN SECURITY OF EXIST. STATION NO.1 AT ALL TIMES.
8) CONTRACTOR TO VERIFY PILE BENT CENTERS AS DRIVEN PRIOR TO FABRICATION OF SUCTION PIPING.

NOTE: CONTRACTOR SHALL REMOVE EXIST. FIVE LEGGED DOLPHIN AS NOTED ON THIS DWG. FRONT TWO BATTERED LEGS ARE APPROXIMATELY 16" ϕ PIPE. REAR TWO BATTERED PILES & SINGLE PLUMB PILE ARE APPROXIMATELY 24" ϕ PILE. ALL PIPE ARE FILLED WITH CONC. AND ARE OF UNDETERMINED LENGTH. PILES MUST BE PULLED. ALL REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR. TWO NEW PROTECTION DOLPHINS SHALL BE SET SO AS TO BEAR AGAINST ORIGINAL SPAR BARGE ALIGNMENT.

REV.	DATE	DESCRIPTION	BY
2	7/17/86	RELOCATED FENCE	T.H.
1	11/26/84	RELOCATED INTAKE	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN AT RIVER INTAKE LINE

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Meinrad F. Lang

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	1"= 20'
DATE	OCT. 16, 84

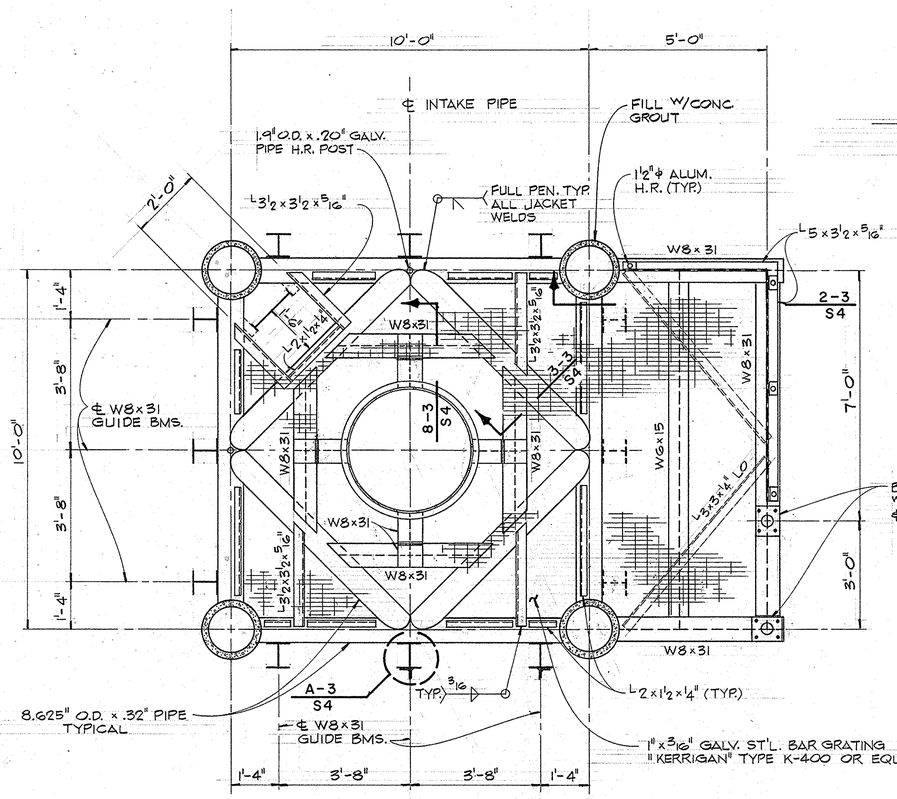
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 2

BRUNING 40-22 56957

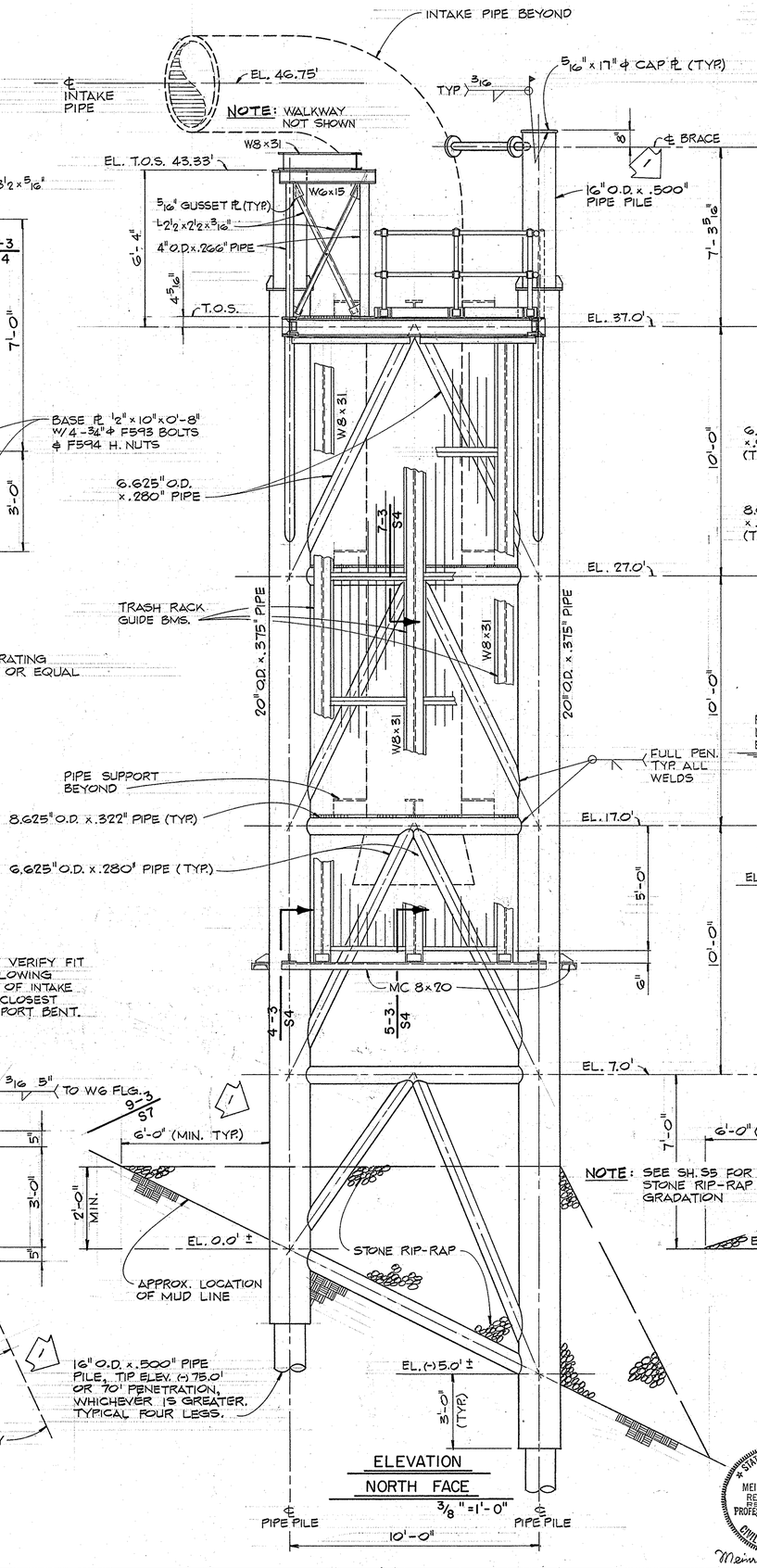
AF 12739



NOTE: HOR. DIAPHRAM FRAMING SIMILAR AT ELEVATIONS 27.0', 17.0', 7.0' & BASE NO LADDER ACCESS OPN'G AT EL. 17.0' FRAMING.

PLAN AT ELEV. 37.36'

½" = 1'-0"

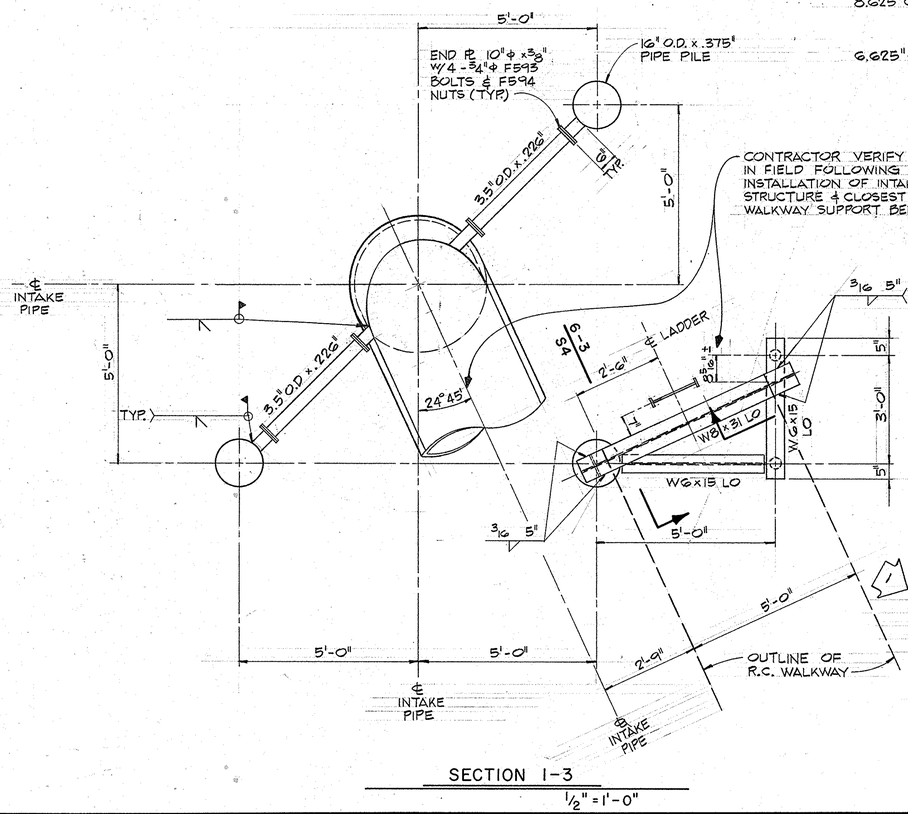


ELEVATION NORTH FACE

3/8" = 1'-0"

ELEVATION EAST FACE

3/8" = 1'-0"



SECTION 1-3

½" = 1'-0"

GENERAL NOTES

1) ALL STRUCTURAL STEEL SHAPES & PLATES USED IN THE WORK SHALL BE ASTM A36 STEEL WITH A MIN. YIELD STRENGTH F_y = 36,000 PSI
2) ALL STRUCTURAL STEEL PIPE USED IN THE WORK SHALL BE ASTM A53, TYPE S, GRADE B, WELDED STEEL PIPE WITH A MIN. YIELD POINT OF 35,000 PSI.
3) ALL STEEL PIPE PILES USED IN THE WORK SHALL BE ASTM A252-77a, GRADE 2 WELDED STEEL PIPE WITH A MIN YIELD POINT OF 35,000 PSI.
4) STEEL PIPE PILES SHALL BE DRIVEN TO A MINIMUM PENETRATION OF 70 FT. BELOW THE MUD LINE OR RIVER BOTTOM.
5) CONCRETE GROUT SHALL ATTAIN A MIN. COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
6) AGGREGATE FOR GROUT SHALL NOT EXCEED ½" IN DIAMETER.
7) ALL EXPOSED STEEL SURFACES OF THE INTAKE STRUCTURE WITH THE EXCEPTION OF GRATINGS, HAND RAILS AND THEIR CONNECTIONS SHALL BE SAND BLASTED AND COATED WITH PORTER PAINT CO.'S "TARSET" TO A MINIMUM THICKNESS OF 12 MILS.

REV.	DATE	DESCRIPTION	BY
1	11/26/84	REVISED JACKET & PILE DIMENSIONS	V.P.M.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

RIVER INTAKE STRUCTURE PLAN & ELEVATIONS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

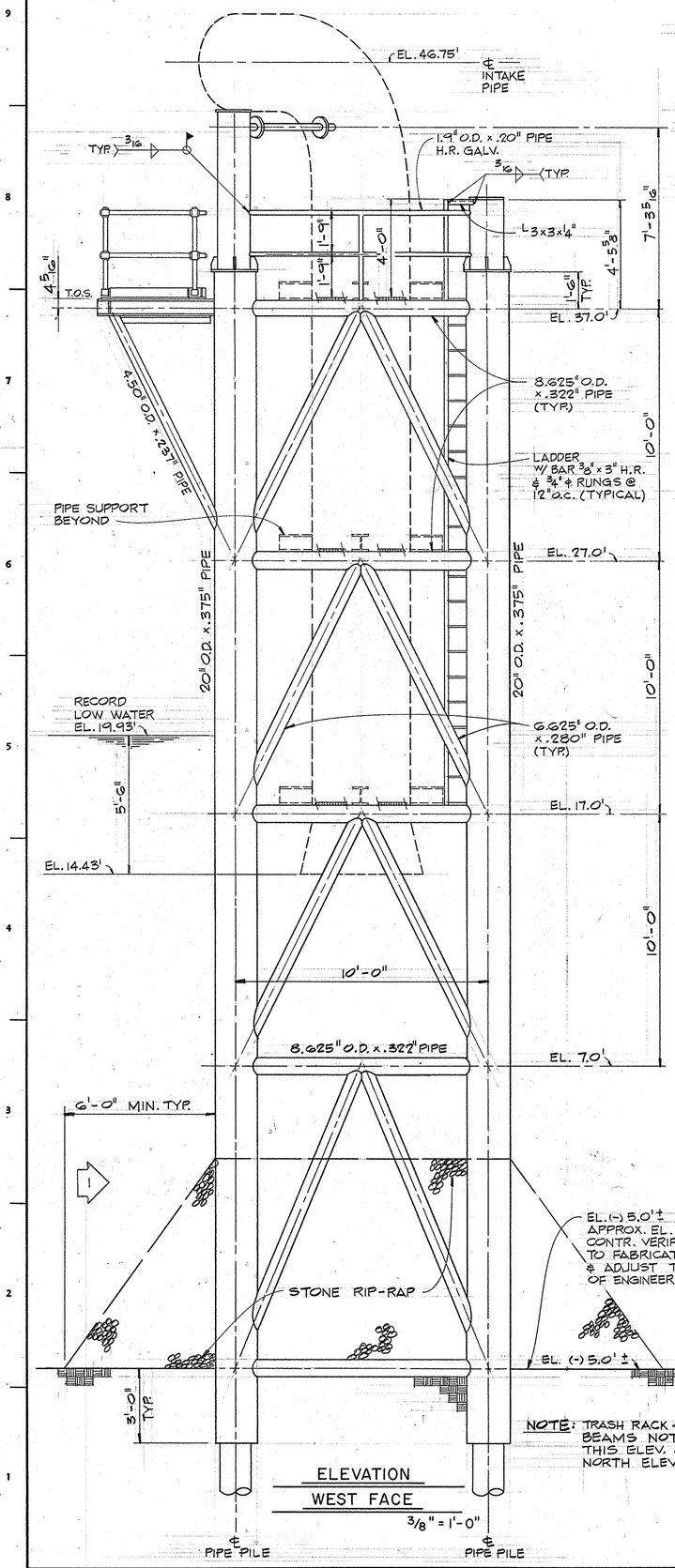
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S3

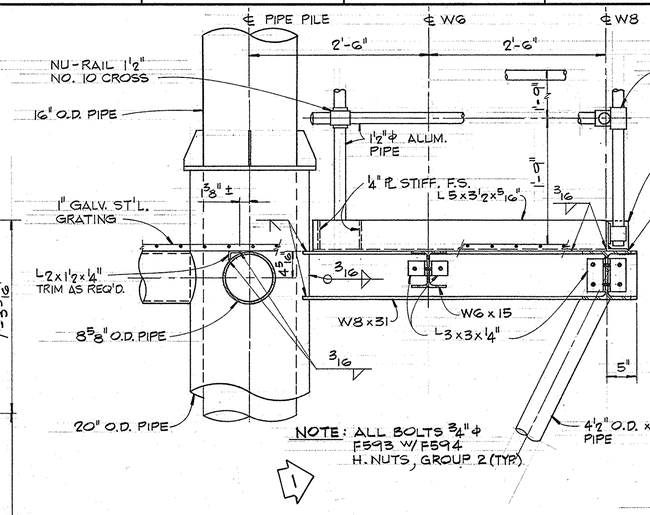
BRUNING 40-22 56957

AF 12739



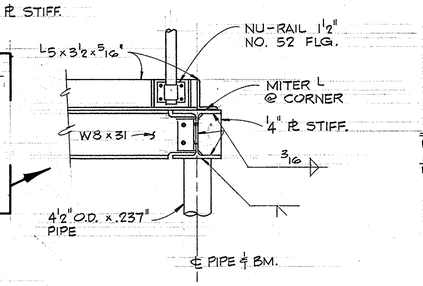
ELEVATION
WEST FACE
3/8" = 1'-0"

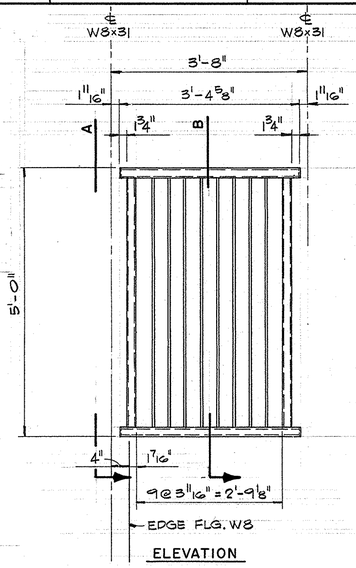
NOTE: TRASH RACK & GUIDE BEAMS NOT SHOWN THIS ELEV. (SEE NORTH ELEVATION)

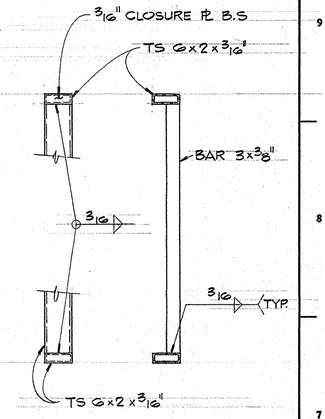


NOTE: ALL BOLTS 3/4" ℄ F593 W/ F594 H. NUTS, GROUP 2 (TYP.)

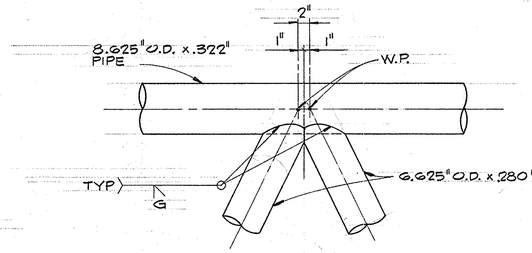
SECTION 2 - 3
1" = 1'-0"





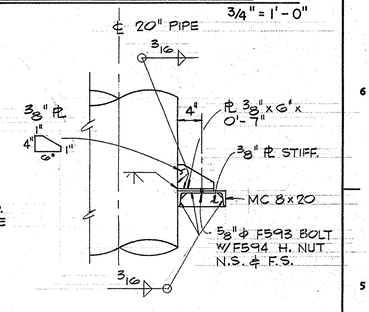


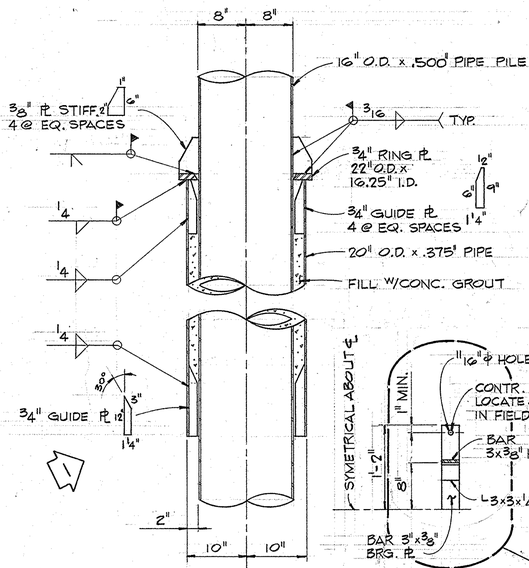
DETAIL "A" DETAIL "B"



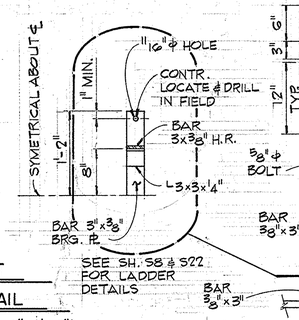
WEB DIAGONAL TO HORIZONTAL MEMBER CONNECTION
1" = 1'-0"

TRASH RACK DETAILS
3/4" = 1'-0"

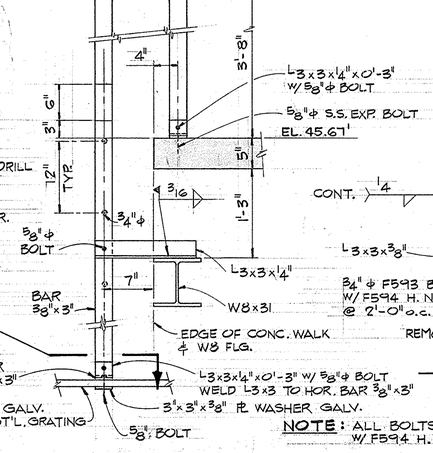




PILE TO JACKET CONNECTION DETAIL
1" = 1'-0"

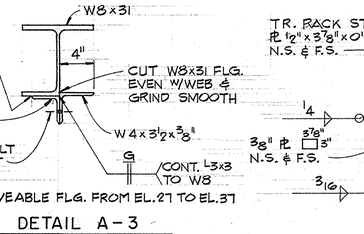


SEE SH. S8 & S22 FOR LADDER DETAILS



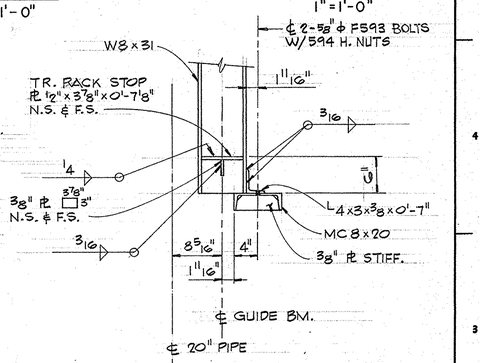
NOTE: ALL BOLTS F593 W/ F594 H. NUTS, GROUP 2 (TYP.)

SECTION 6 - 3
1" = 1'-0"



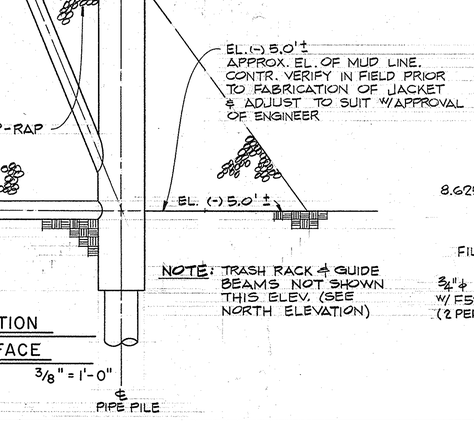
REMOVEABLE FLG. FROM EL. 27 TO EL. 37

DETAIL A - 3
1 1/2" = 1'-0"

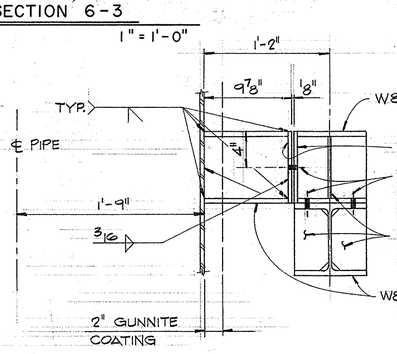


SECTION 4 - 3
1" = 1'-0"

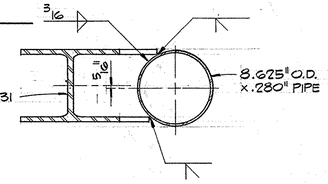
SECTION 5 - 3
1" = 1'-0"



SECTION 7 - 3
1 1/2" = 1'-0"



SECTION 8 - 3
1 1/2" = 1'-0"



SECTION 3 - 3
1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY
1	11/26/84	REVISED JACKET DIMENSIONS	V.P.M.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

RIVER INTAKE STRUCTURE ELEVATION & DETAILS

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
Meinrad F. Lang

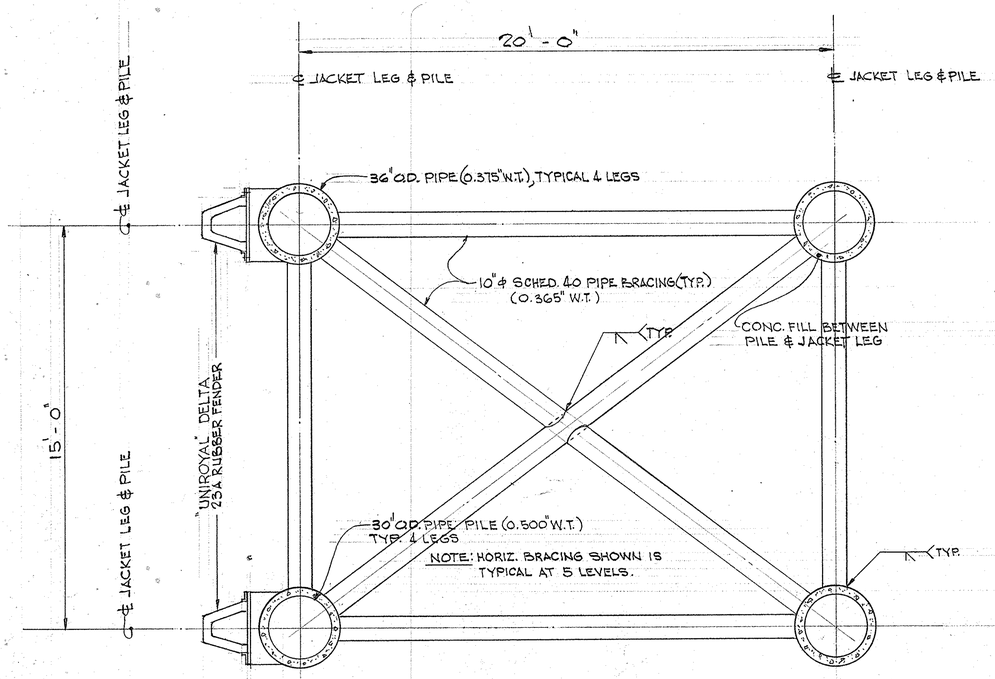
CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM	
TRC.	
CK. ARC	GENERAL SUPERINTENDENT
AP.	
SCALE AS NOTED	DWG. No. 11540-W-2.0
DATE OCT. 16, 84	SET NO. / SHEET NO. S 4

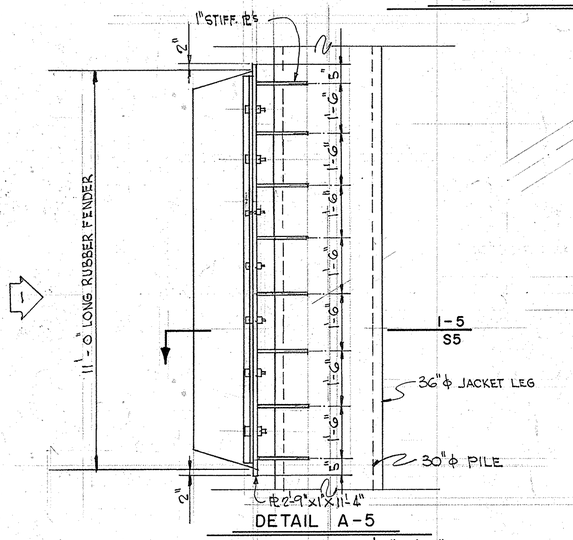
BRUNING 40-22 56957

AF 12739



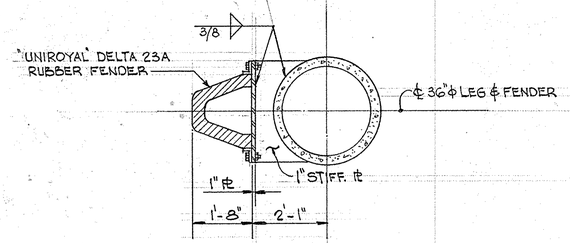
PLAN - PROTECTIVE DOLPHIN

3/8" = 1'-0"



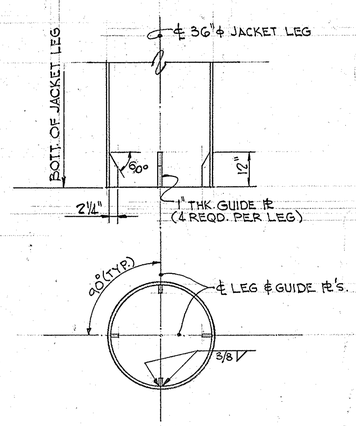
DETAIL A-5

1/2" = 1'-0"



SECTION 1-5

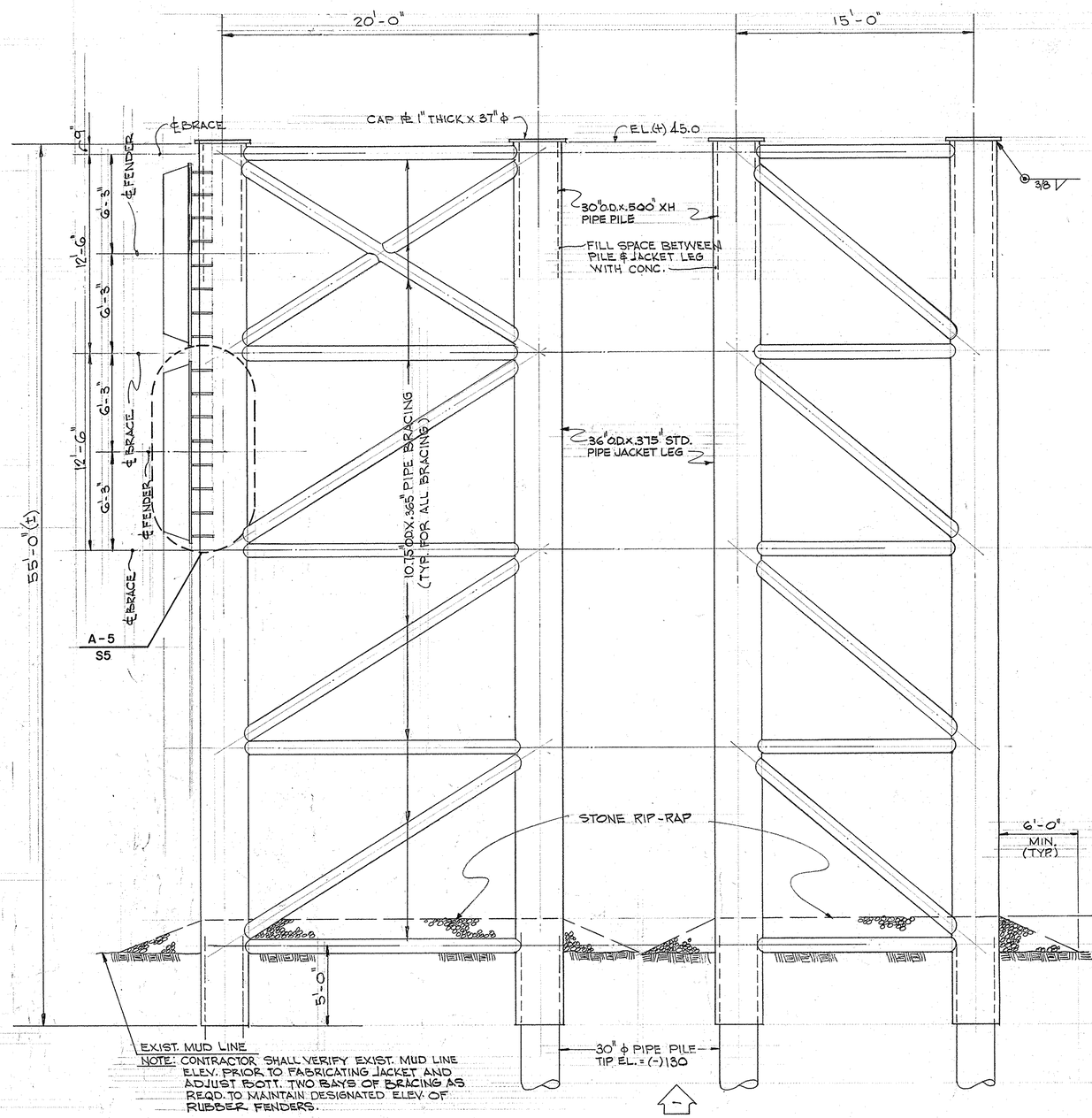
1/2" = 1'-0"



PILE GUIDE DETAIL

1/2" = 1'-0"

NOTE: GENERAL NOTES 1,2,3,5,6 & 7 ON SH. 33 APPLY TO THIS PORTION OF THE WORK AND SHALL BE USED ACCORDINGLY



EAST ELEVATION

(WEST SIMILAR) 1/4" = 1'-0"

SOUTH ELEVATION

(NORTH SIMILAR) 1/4" = 1'-0"

STONE RIP-RAP GRADATION	
STONE WGT. (LBS.)	CUMULATIVE % FINER BY WGT.
400	100
250	70-100
100	50-80
30	32-58
5	15-34
1	2-20
LESS THAN ½" MAX. DIMENSION	0-5

NOTE: 5% OF THE MATERIAL CAN WEIGH MORE THAN 400 LBS. HOWEVER, NO PIECE SHALL WEIGH MORE THAN 500 LBS.

REV.	DATE	DESCRIPTION	BY
1	11/29/82	REVISED FENDERS & PILE TIP EL.	MFL

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

RIVER INTAKE PROTECTION DOLPHINS

STATE OF LOUISIANA — MEINRAD F. LANG, REG. NO. 4318, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	MFL
TRC.	
CK.	MFL
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 81

GENERAL SUPERINTENDENT

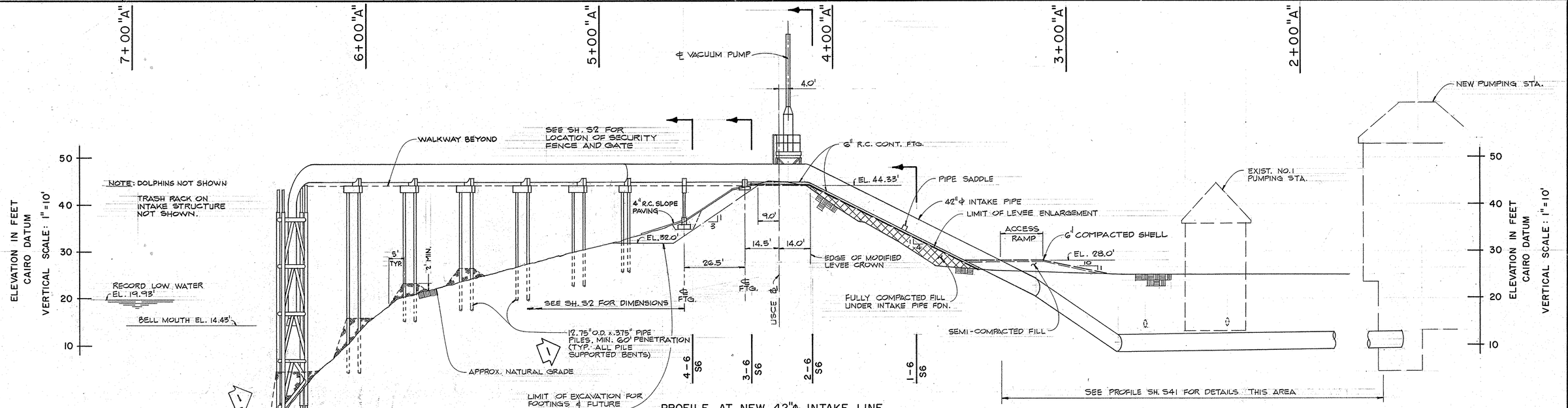
DWG. No. 11540-W-20

SET NO. | SHEET NO. S5

BRUNING 40-22 56957

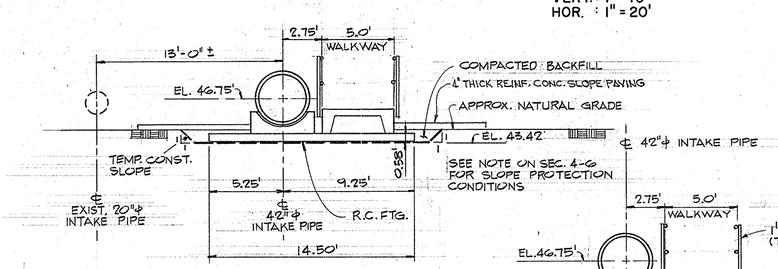
AF 12739

7+00 "A" 6+00 "A" 5+00 "A" 4+00 "A" 3+00 "A" 2+00 "A"



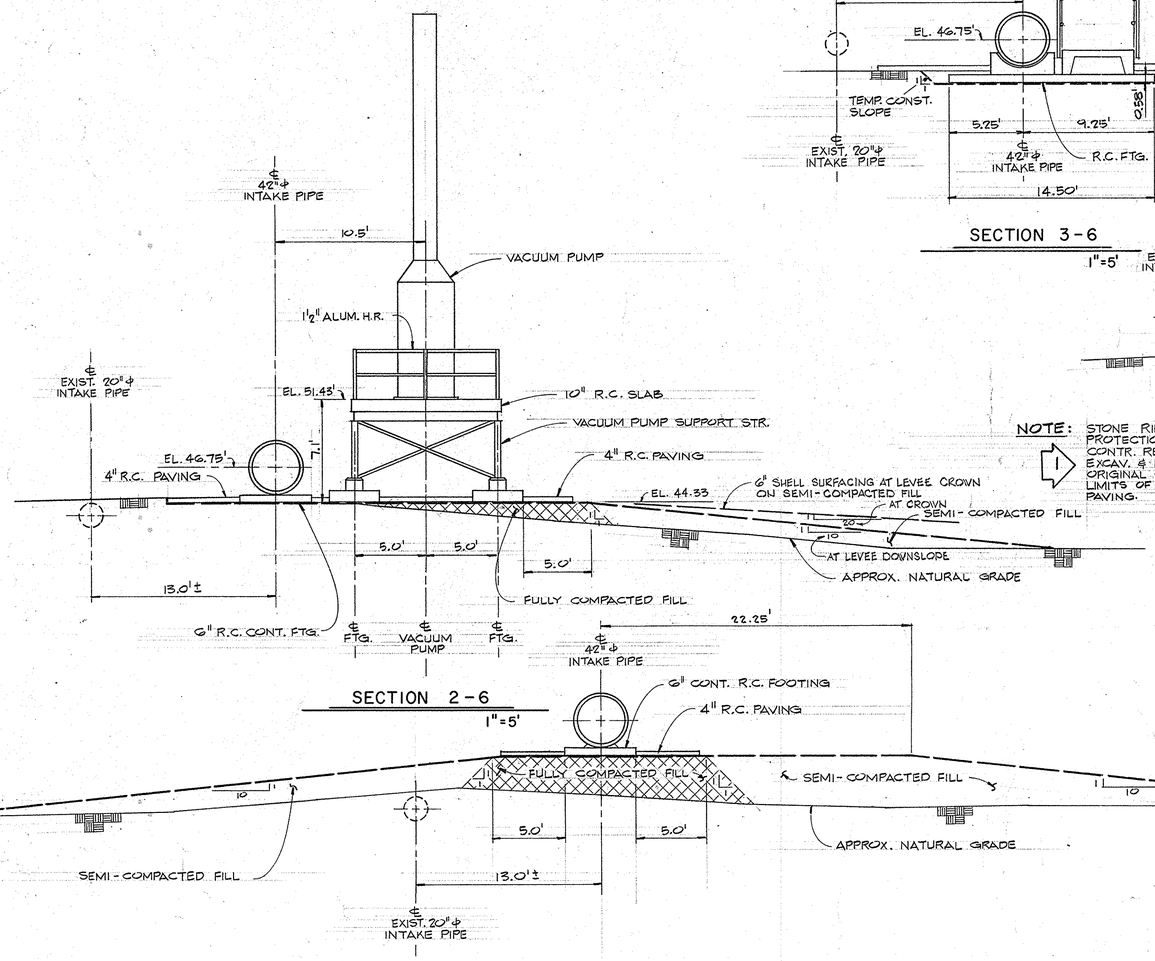
PROFILE AT NEW 42"ϕ INTAKE LINE

VERT.: 1"=10'
HOR. : 1"=20'



SECTION 3-6

1"=5'

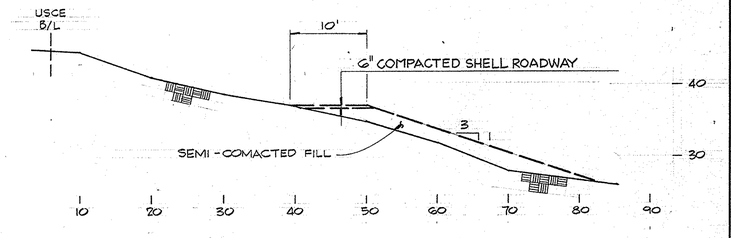


SECTION 2-6

1"=5'

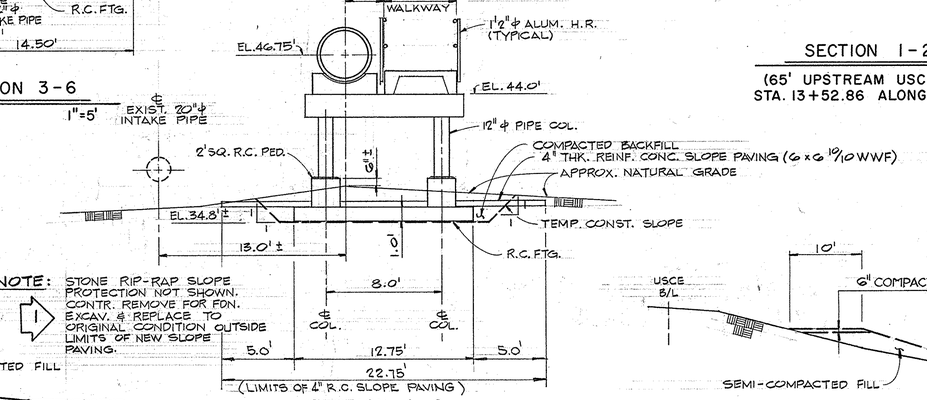
SECTION 1-6

1"=5'



SECTION 1-2

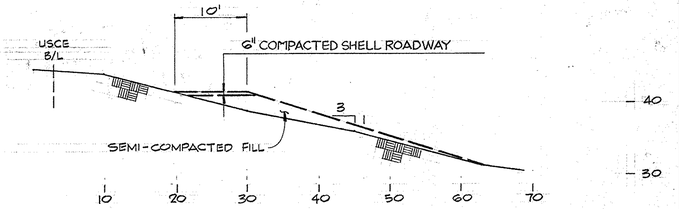
(65' UPSTREAM USCE B/L 1"=10'
STA. 13+52.86 ALONG ℄ RAMP)



SECTION 4-6

1"=5'

NOTE: (1) STONE RIP-RAP SLOPE PROTECTION NOT SHOWN. CONTR. REMOVE FOR FDN. EXCAV. & REPLACE TO ORIGINAL CONDITION OUTSIDE LIMITS OF NEW SLOPE PAVING.



SECTION 2-2

(90' DOWNSTREAM USCE B/L 1"=10'
STA. 9+12.49 ALONG ℄ RAMP)

REV.	DATE	DESCRIPTION	BY
1	11/26/84	RELOCATED INTAKE	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

RIVER INTAKE LINE PROFILE & SECTIONS

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

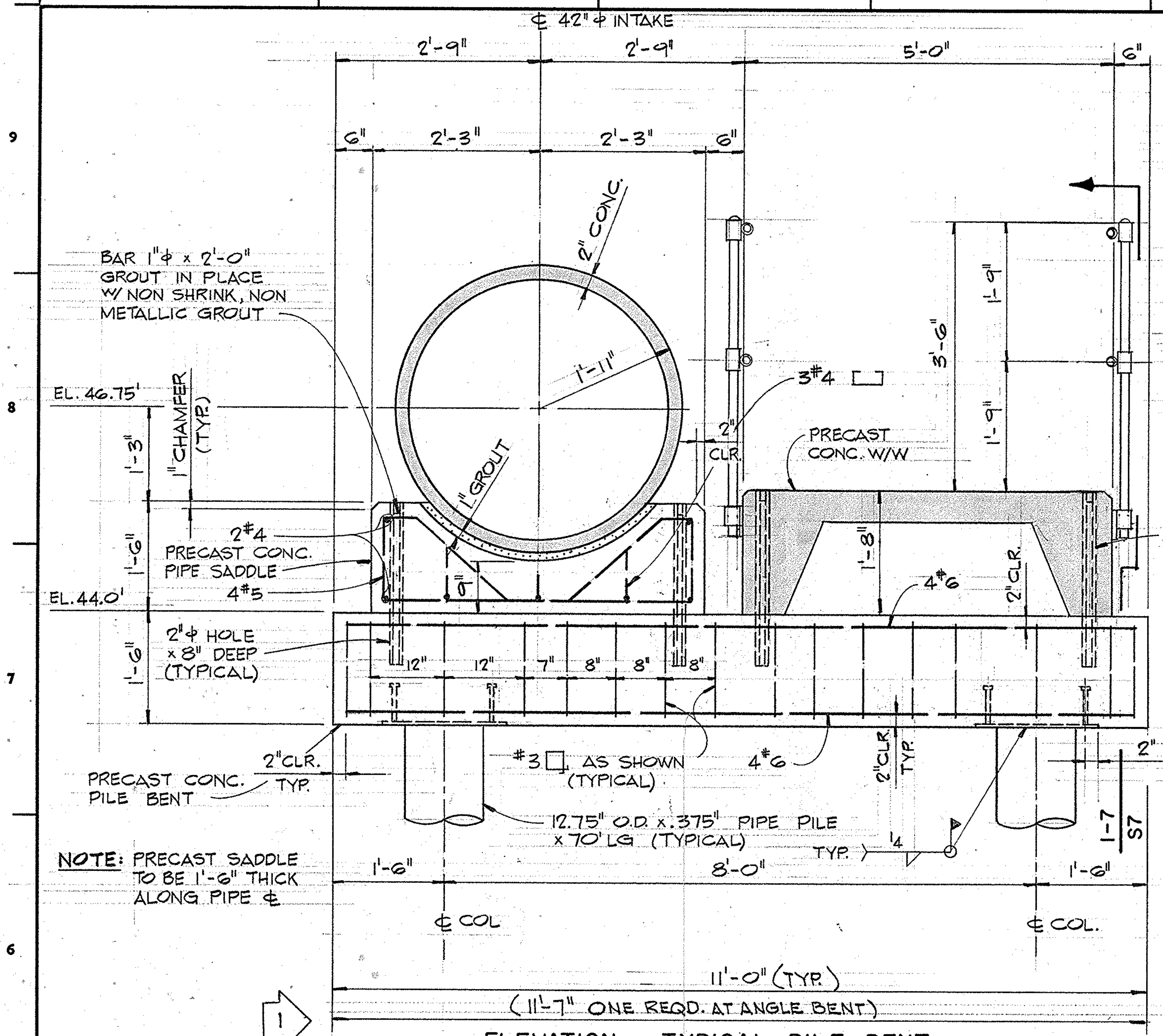
DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO. SHEET NO. S 6

BRUNING-40-22 56857

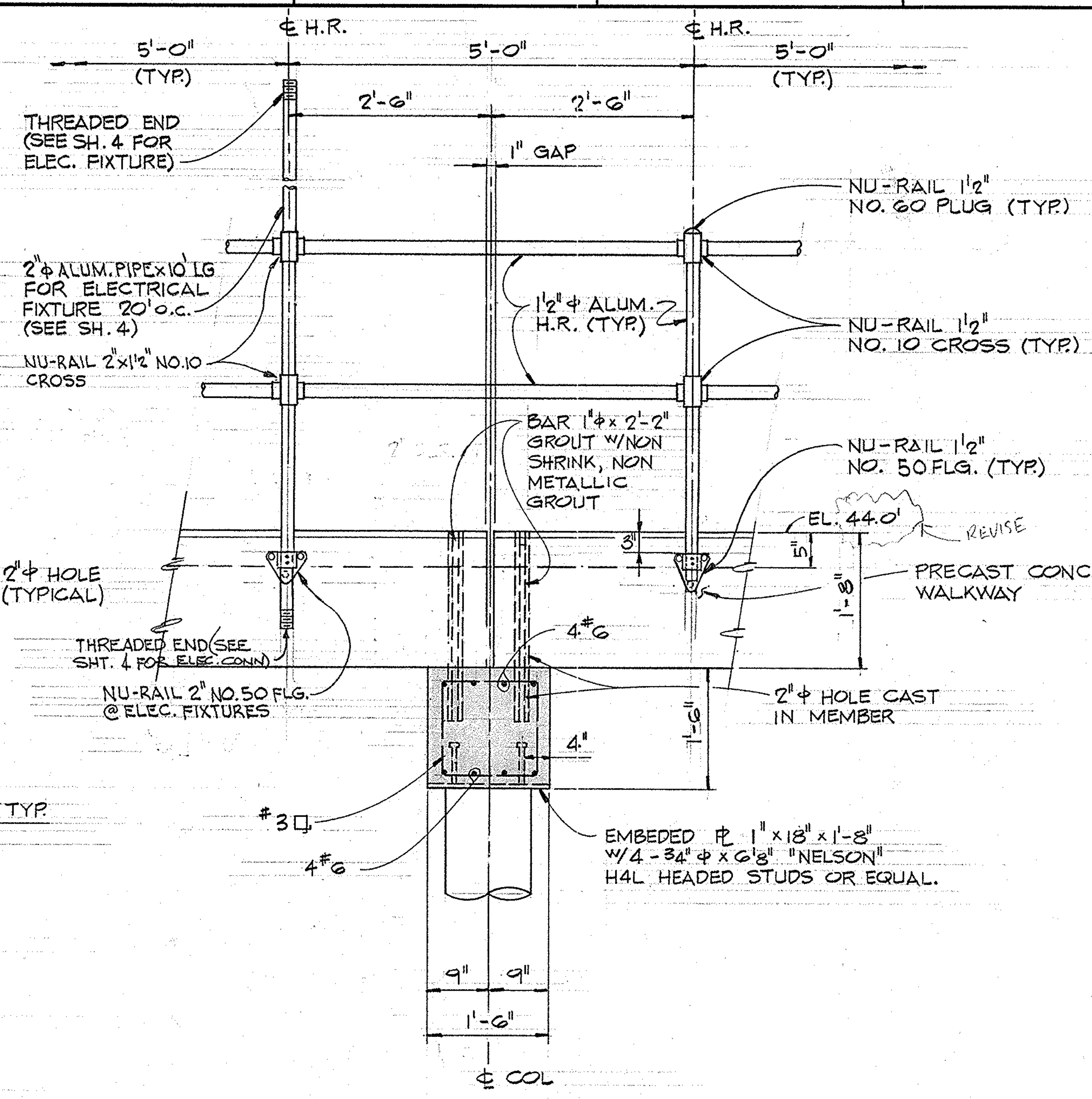
AF 12739



NOTE: PRECAST SADDLE TO BE 1'-6" THICK ALONG PIPE ℄

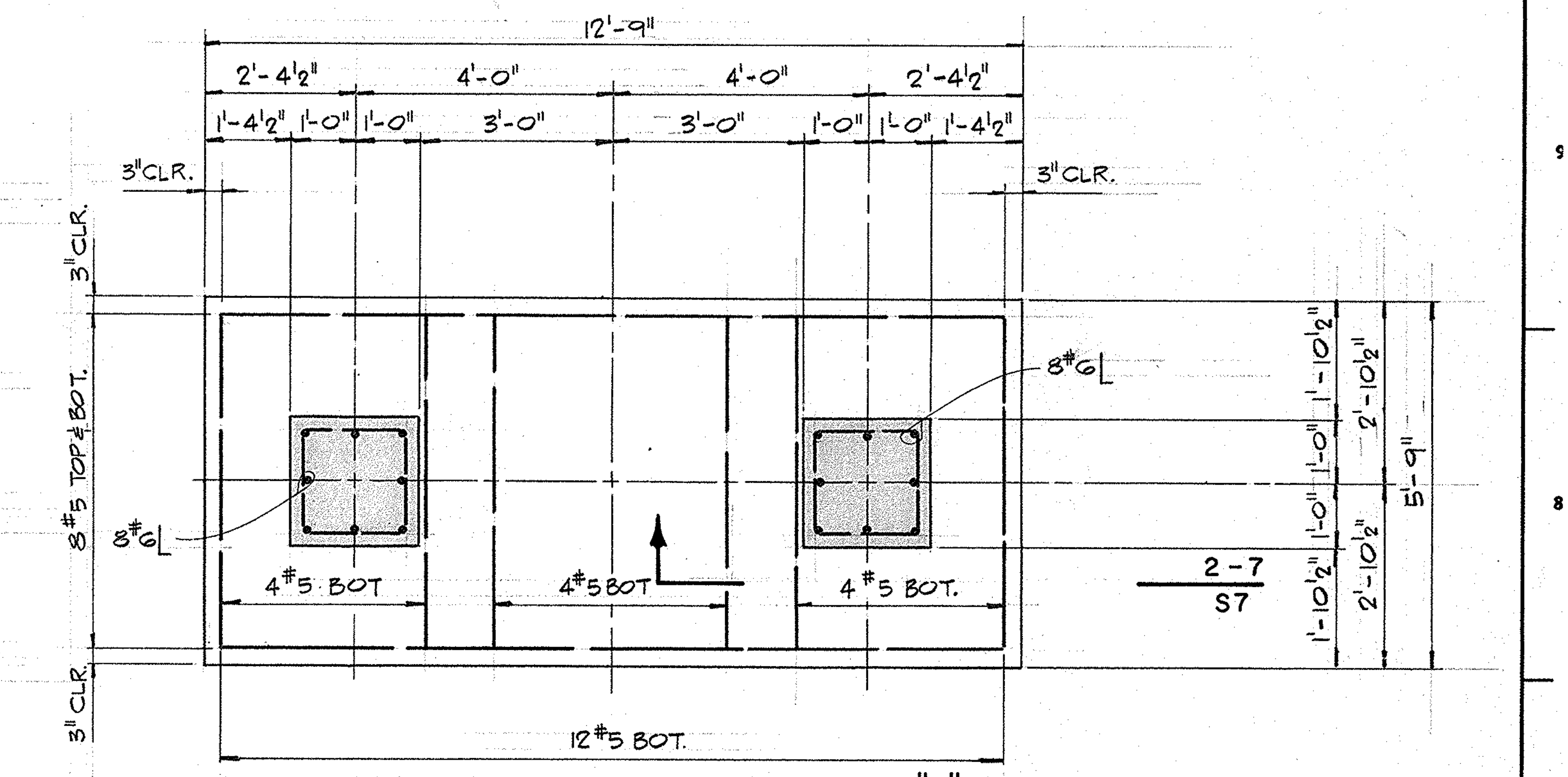
ELEVATION - TYPICAL PILE BENT

3/4" = 1'-0"



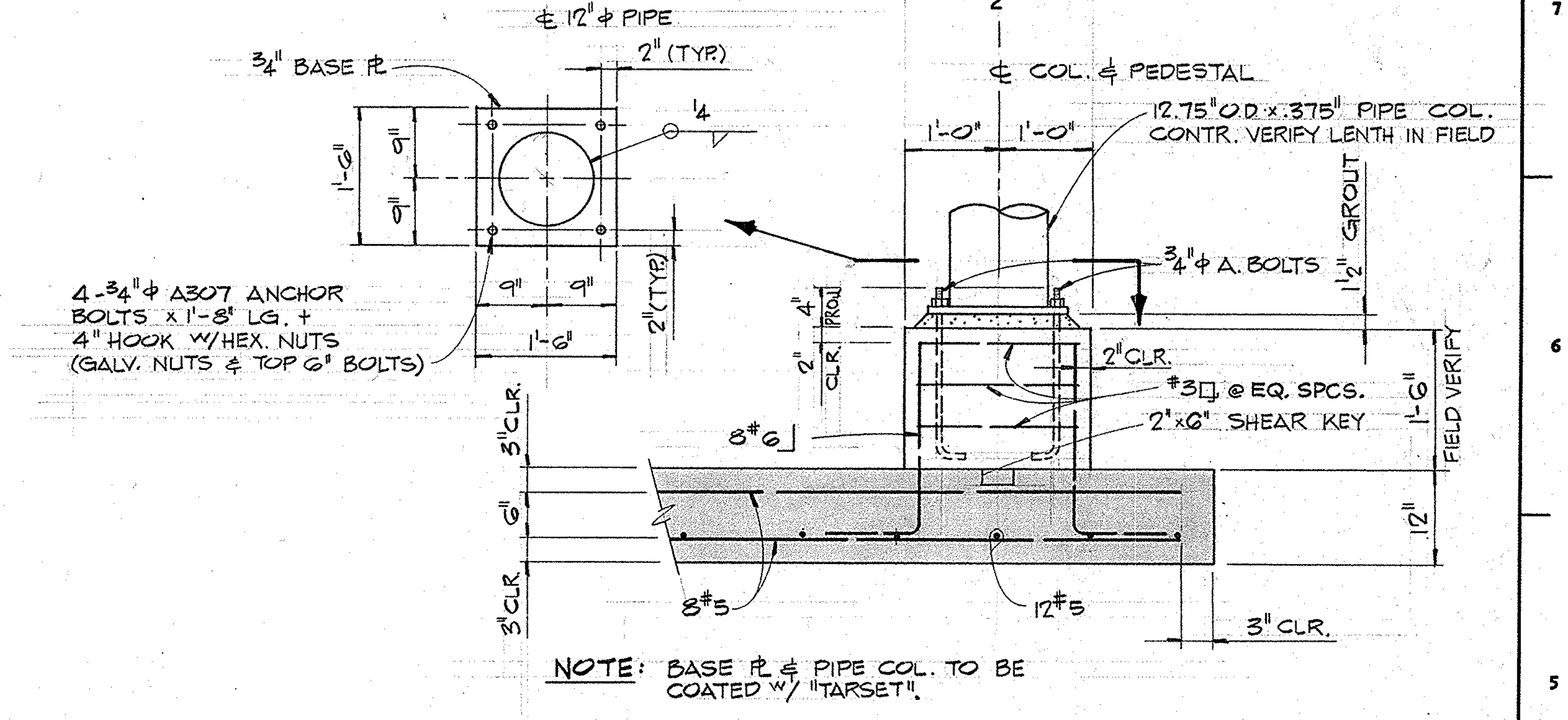
SECTION 1-7

3/4" = 1'-0"



PLAN - FOOTING AT STA. 4 + 63.91 B/L "A"

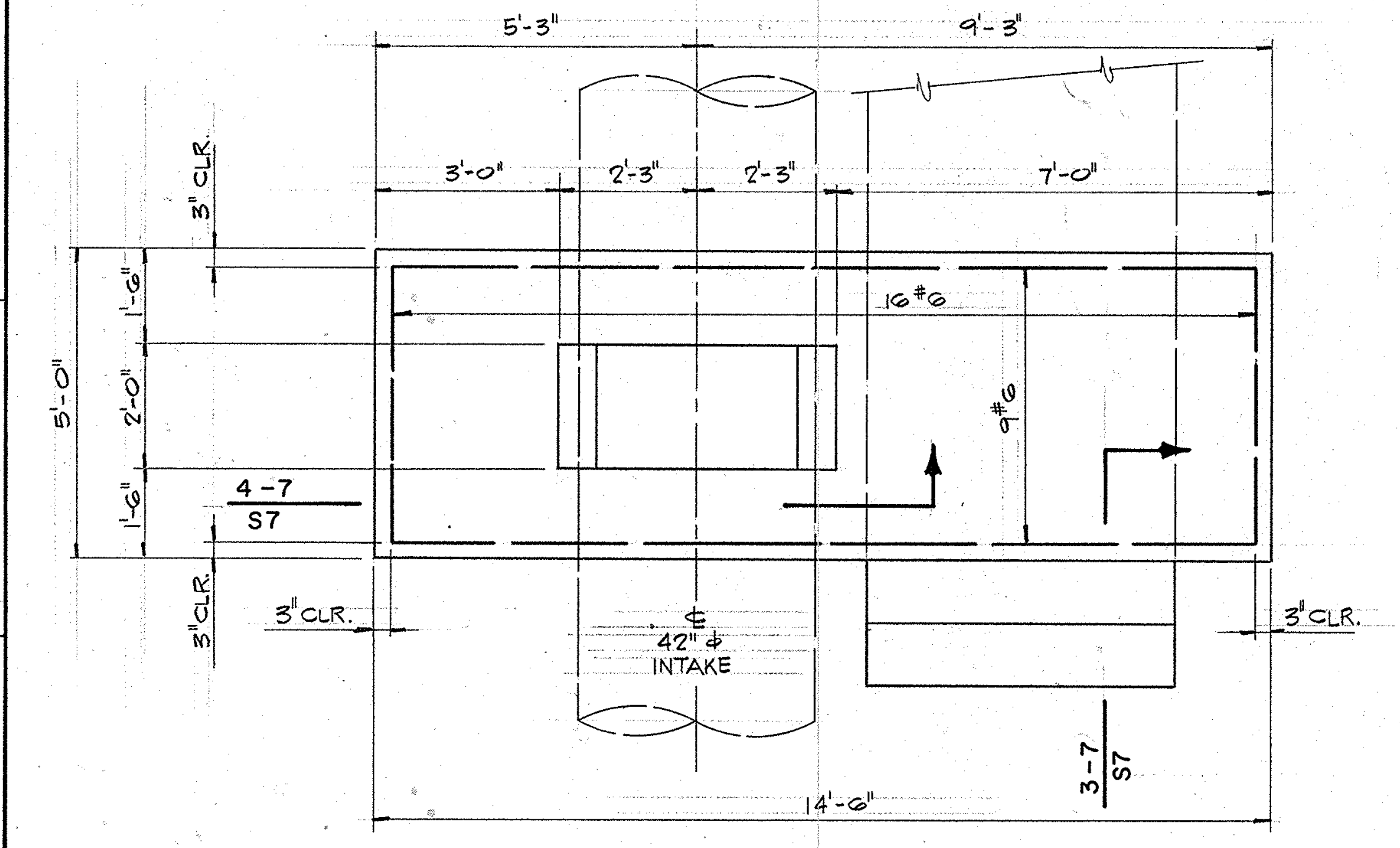
1/2" = 1'-0"



NOTE: BASE ⅊ & PIPE COL. TO BE COATED W/ "TARSET".

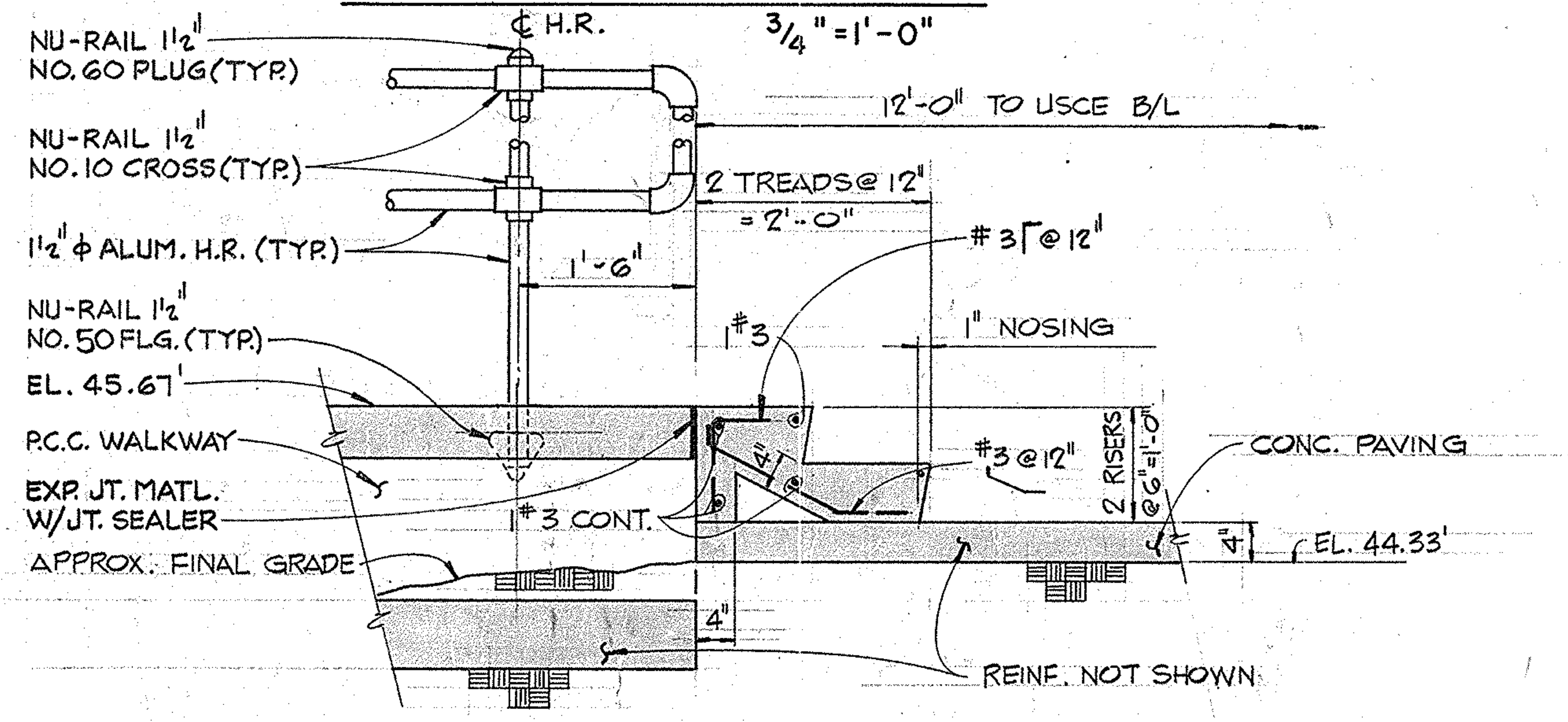
SECTION 2-7

3/4" = 1'-0"



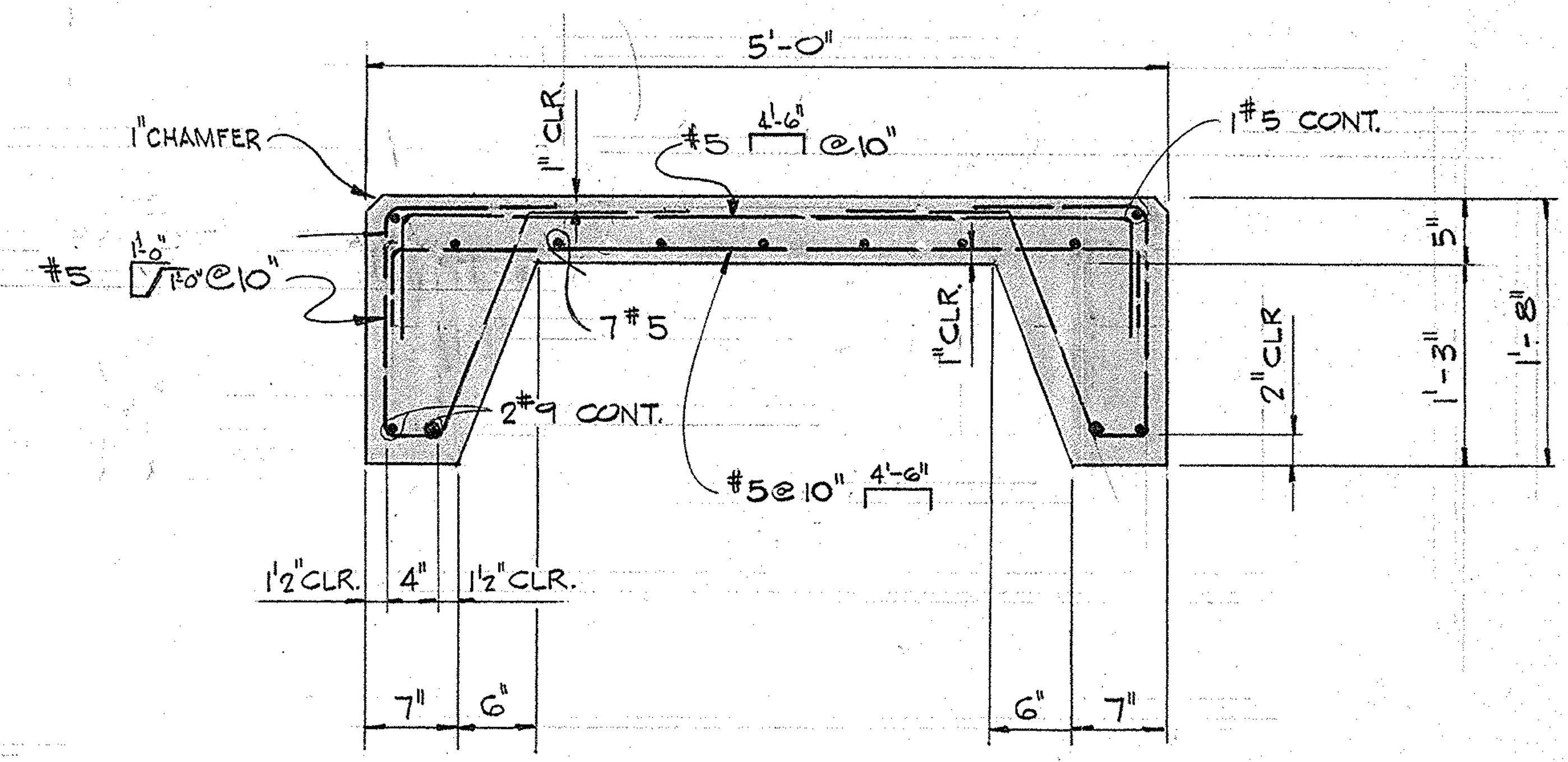
PLAN - FOOTING AT STA. 4 + 37.41 B/L "A"

1/2" = 1'-0"



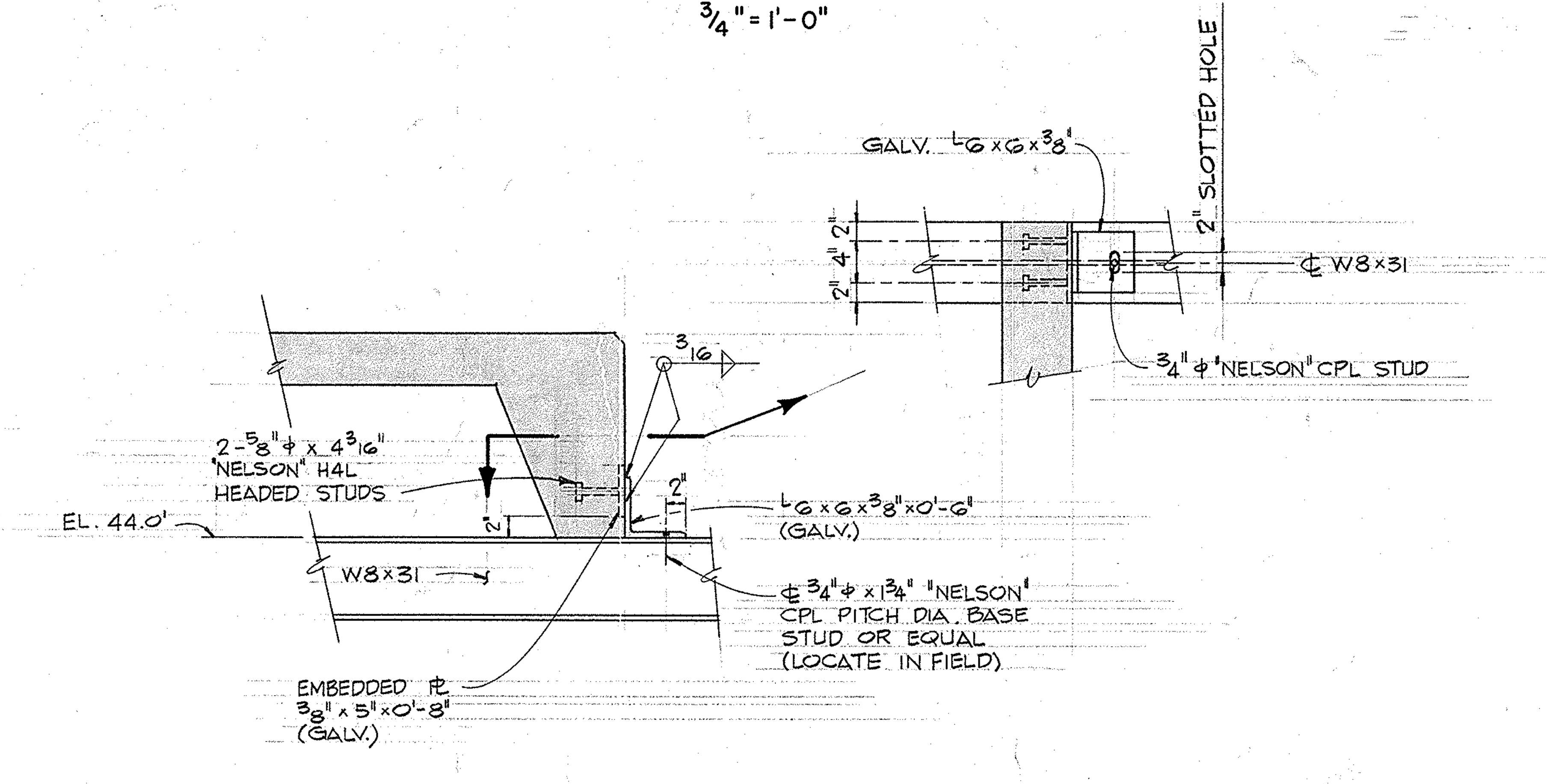
SECTION 3-7

3/4" = 1'-0"



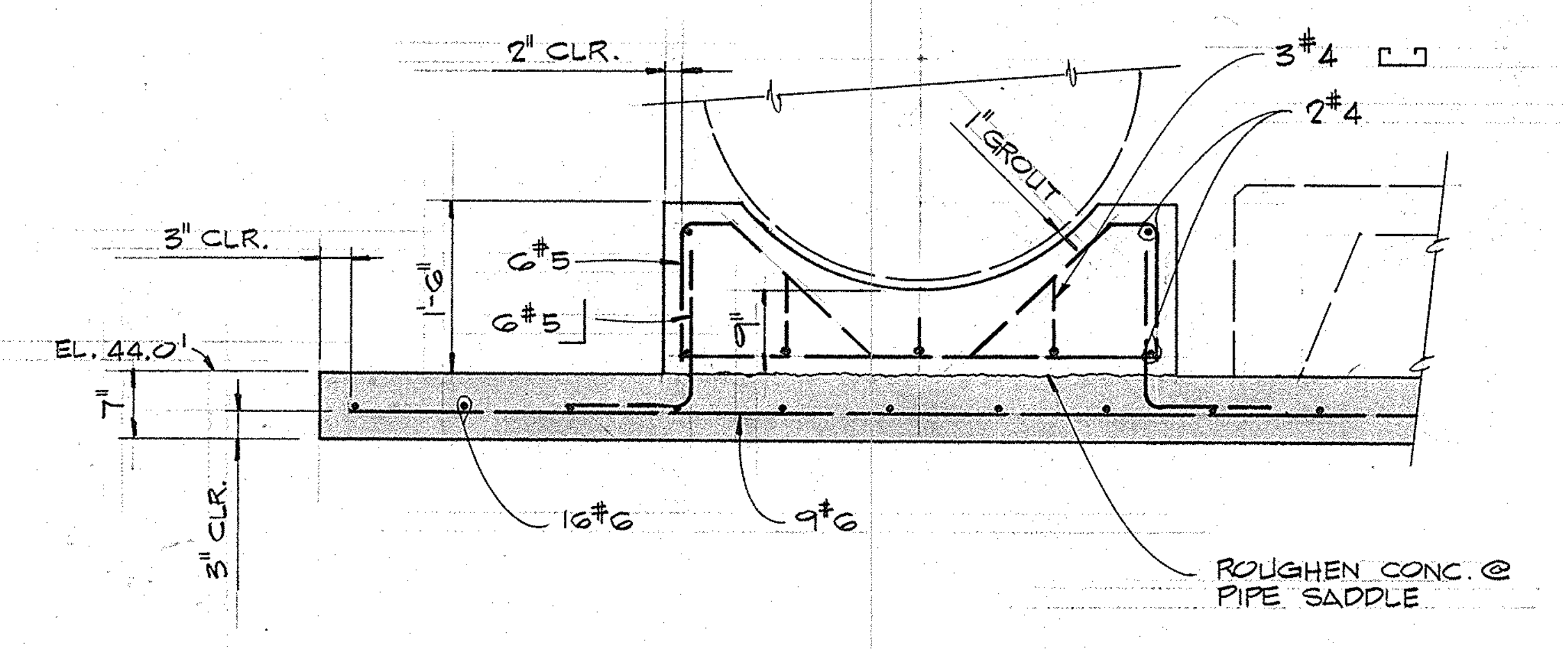
TYPICAL SECTION - PRECAST CONC. WALKWAY

1" = 1'-0"



SECTION 9-3

1" = 1'-0"



SECTION 4-7

3/4" = 1'-0"

REV.	DATE	DESCRIPTION	BY
1	11/26/84	ADDED ANGLE BENT DIMENSION	MFL

MEINRAD F. LANG
REG. No. 4318

Meinrad F. Lang

SEWERAGE AND WATER BOARD
OF NEW ORLEANS

CONSTRUCTION OF NEW
RIVER PUMPING STATION NO. 1,
ALGIERS, LOUISIANA

RIVER INTAKE LINE
MISCELLANEOUS DETAILS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

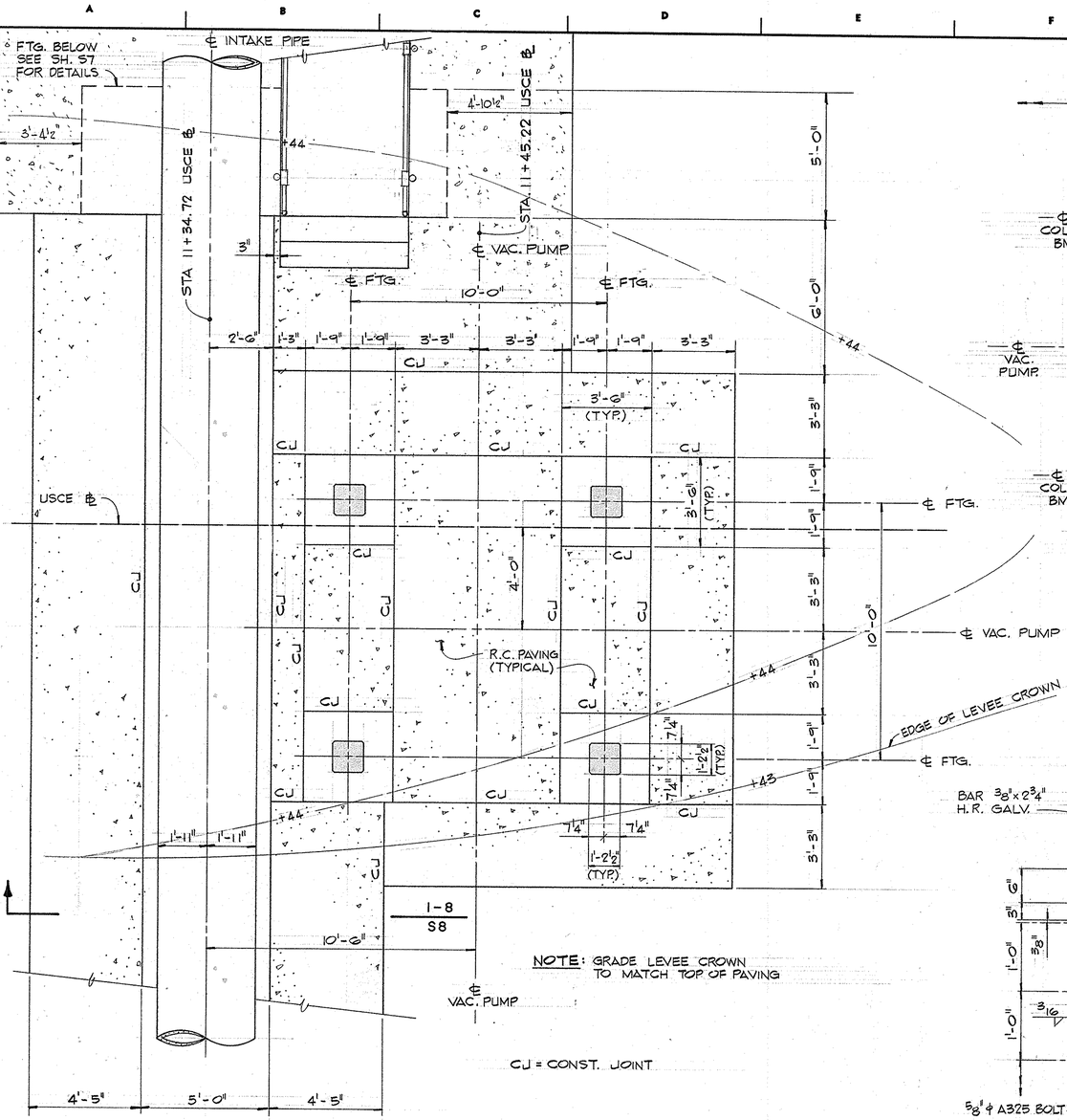
S. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

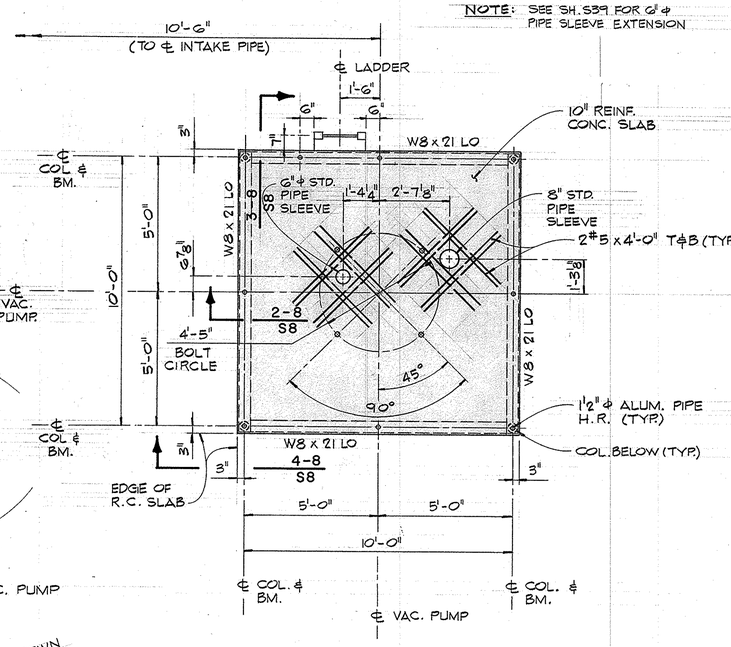
SHEET NO. S 7

AF 12739



VACUUM PUMP STATION FOUNDATION AND SITE PAVING PLAN

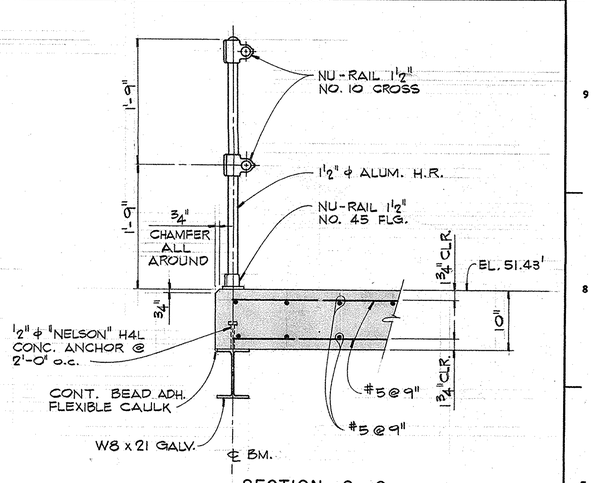
3/8" = 1'-0"



NOTE: SEE SH. S39 FOR 6" ℄ PIPE SLEEVE EXTENSION

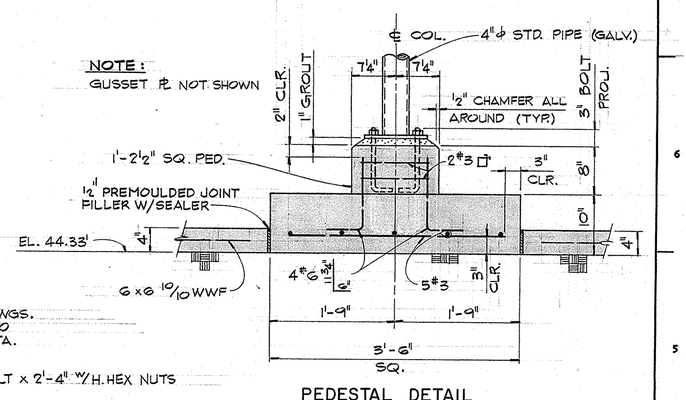
VACUUM PUMP STATION SUPPORT – PLAN

3/8" = 1'-0"



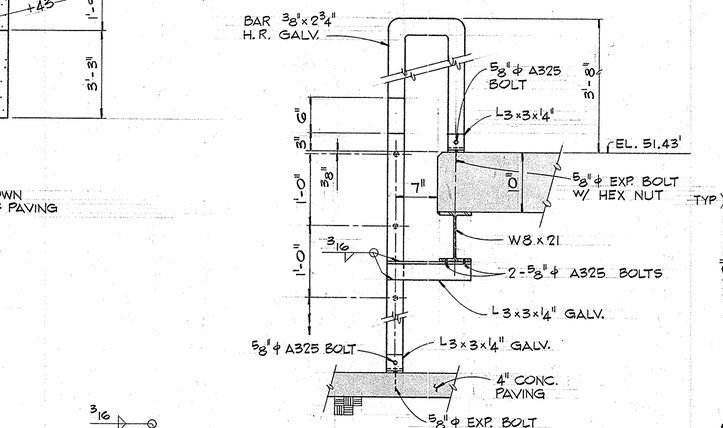
SECTION 2-8

1" = 1'-0"



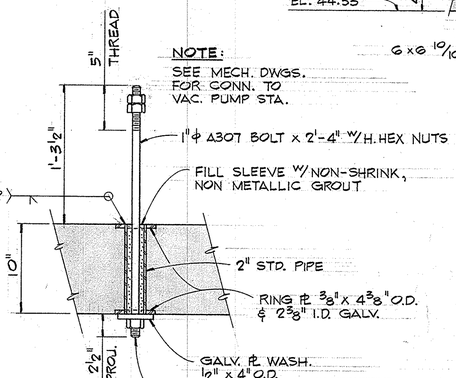
PEDESTAL DETAIL

1" = 1'-0"



SECTION 3-8

1" = 1'-0"



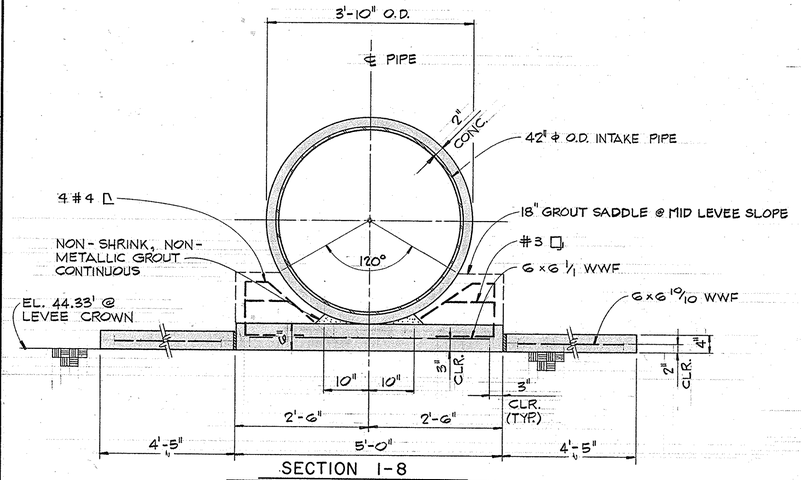
ANCHOR BOLT SLEEVE DETAIL

1½" = 1'-0"

NOTE: GUSSET PL's NOT SHOWN

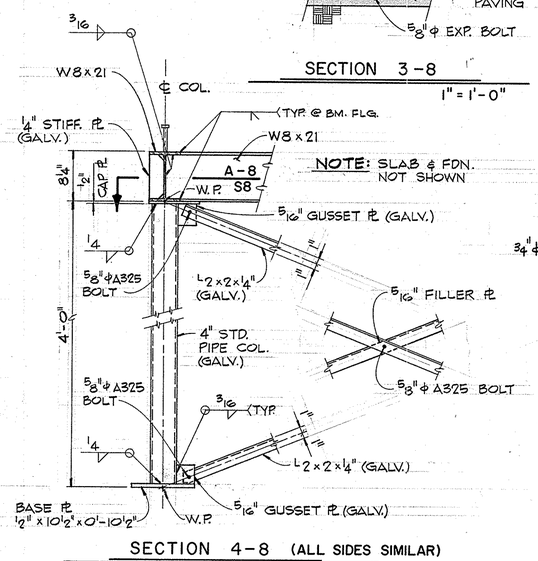
BASE PLATE DETAIL

1½" = 1'-0"



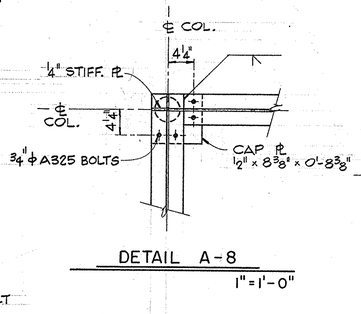
SECTION 1-8

3/4" = 1'-0"



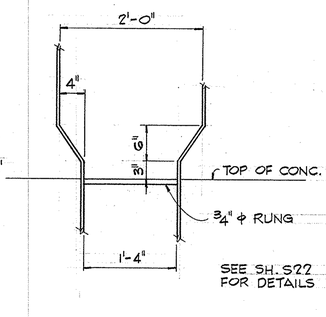
SECTION 4-8 (ALL SIDES SIMILAR)

1" = 1'-0"



DETAIL A-8

1" = 1'-0"



SEE SH. S22 FOR DETAILS

LADDER OPENING DETAIL

1" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP SUPPORT

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

CONTRACT NO. 1113

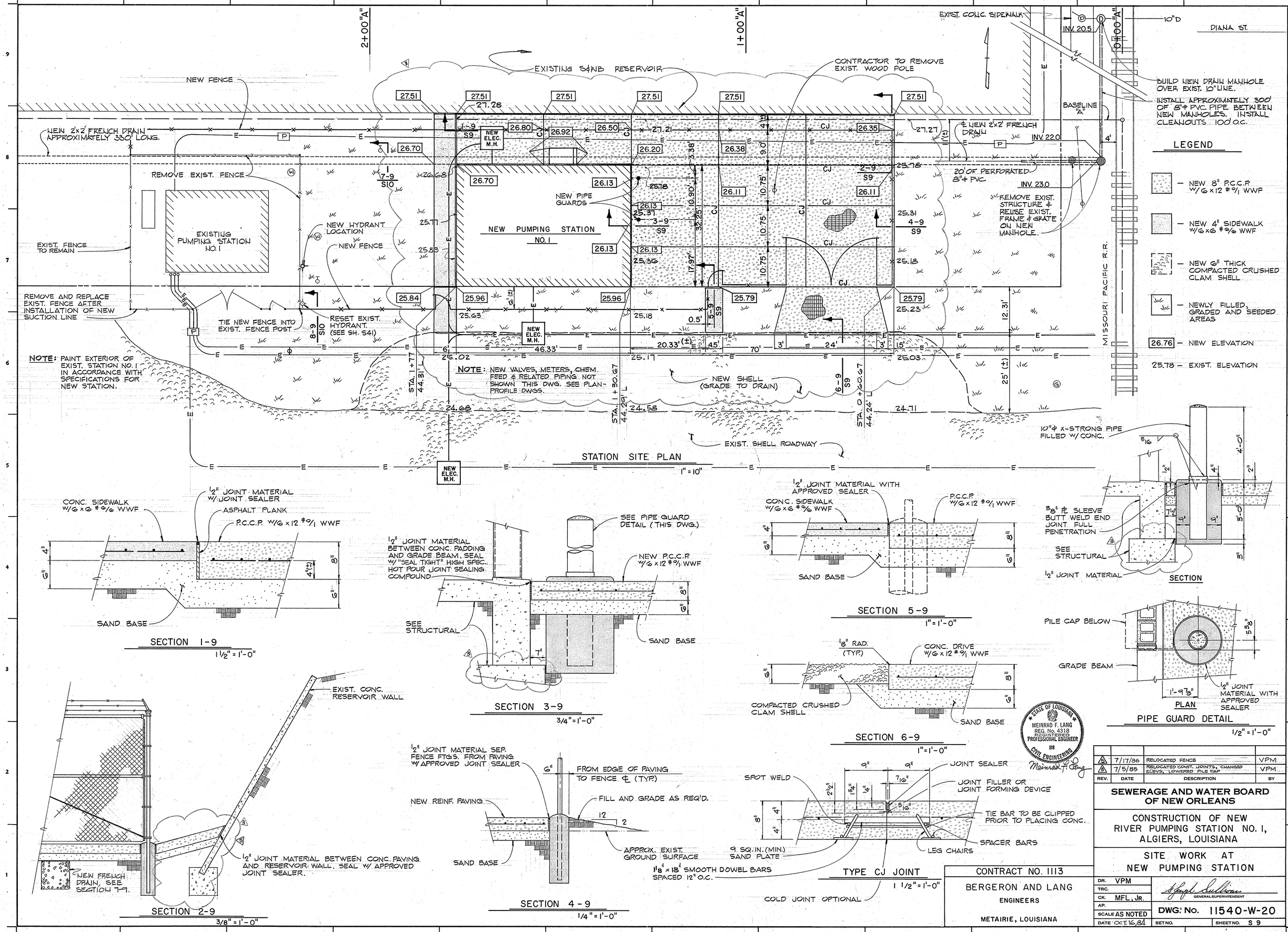
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM	
TRC.	
CK. ARC	
AP.	
SCALE AS NOTED	DWG. No. 11540-W-20
DATE OCT. 16, 84	SET NO. — SHEET NO. S8

GENERAL SUPERINTENDENT

BRUNING 40-22 56957

AF 12739



STATION SITE PLAN
1" = 10'

SECTION 1-9
1 1/2" = 1'-0"

SECTION 3-9
3/4" = 1'-0"

SECTION 5-9
1" = 1'-0"

SECTION

PLAN

PIPE GUARD DETAIL
1/2" = 1'-0"

SECTION 2-9
3/8" = 1'-0"

SECTION 4-9
1/4" = 1'-0"

SECTION 6-9
1" = 1'-0"

TYPE CJ JOINT
1 1/2" = 1'-0"

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

REV.	DATE	DESCRIPTION	BY
3	7/17/86	RELOCATED FENCE	VPM
2	7/5/85	RELOCATED CONST. JOINTS, CHANGED ELEVS., LOWERED PILE CAP	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

SITE WORK AT NEW PUMPING STATION

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	MFL, JR.
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

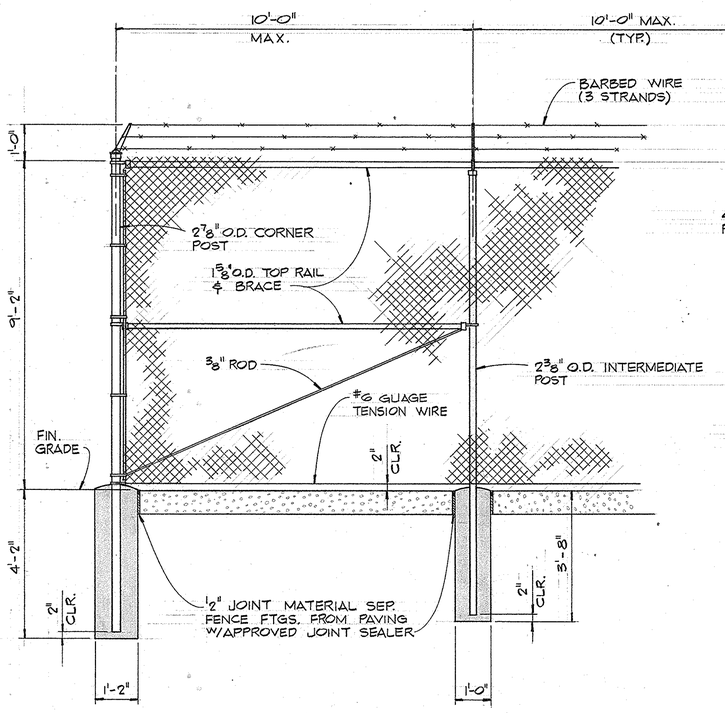
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 9

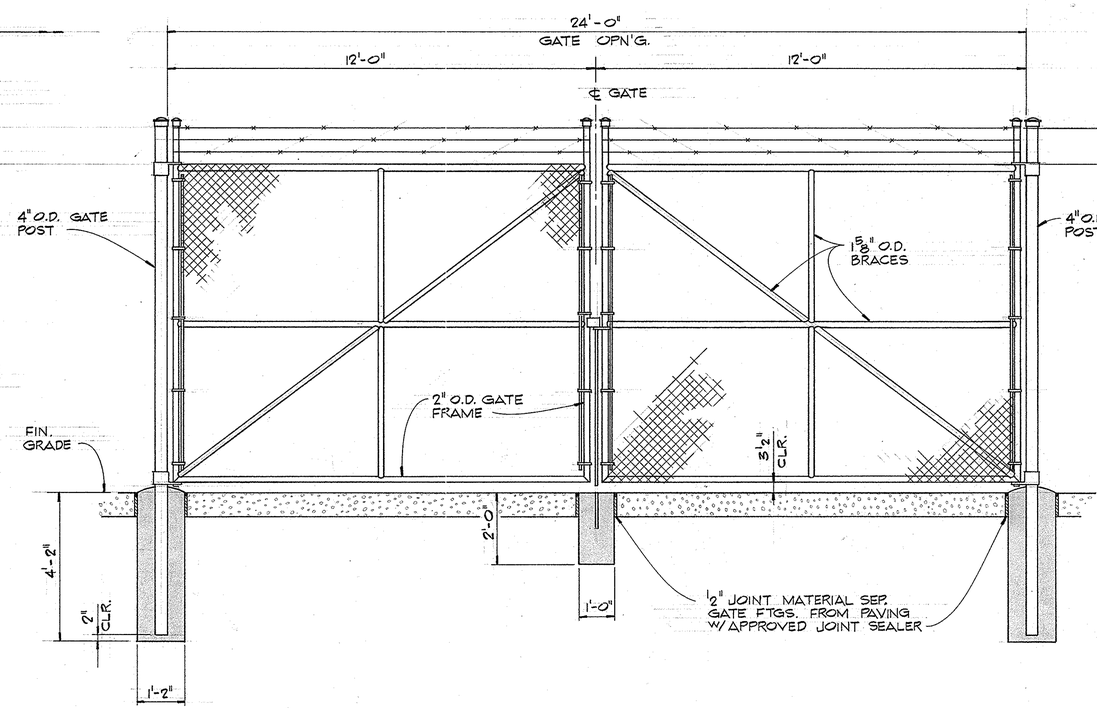
BRUNING 40-22 56957

AF 12739



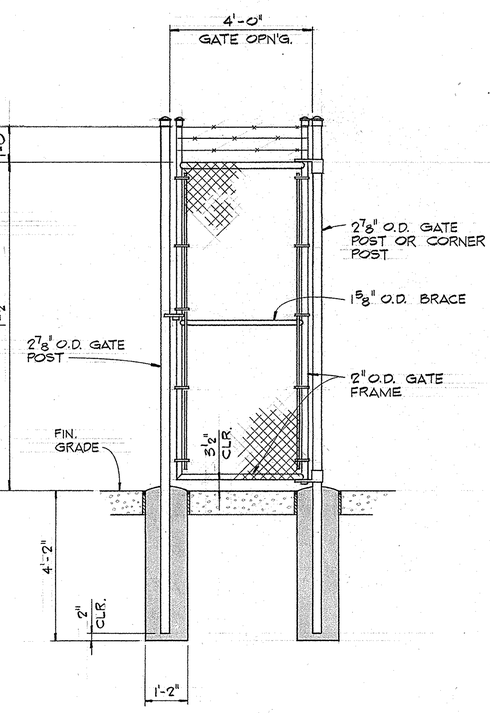
TYPICAL FENCE DETAILS

N.T.S.



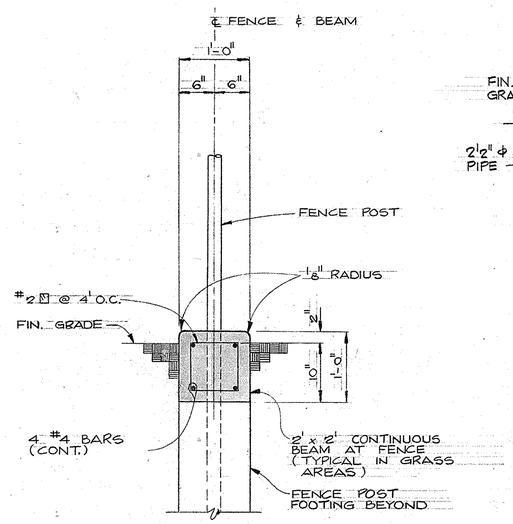
24' SWING GATE DETAILS

1 REQ'D. N.T.S.



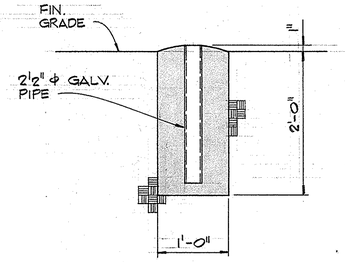
4' GATE DETAILS

2 REQ'D. N.T.S.



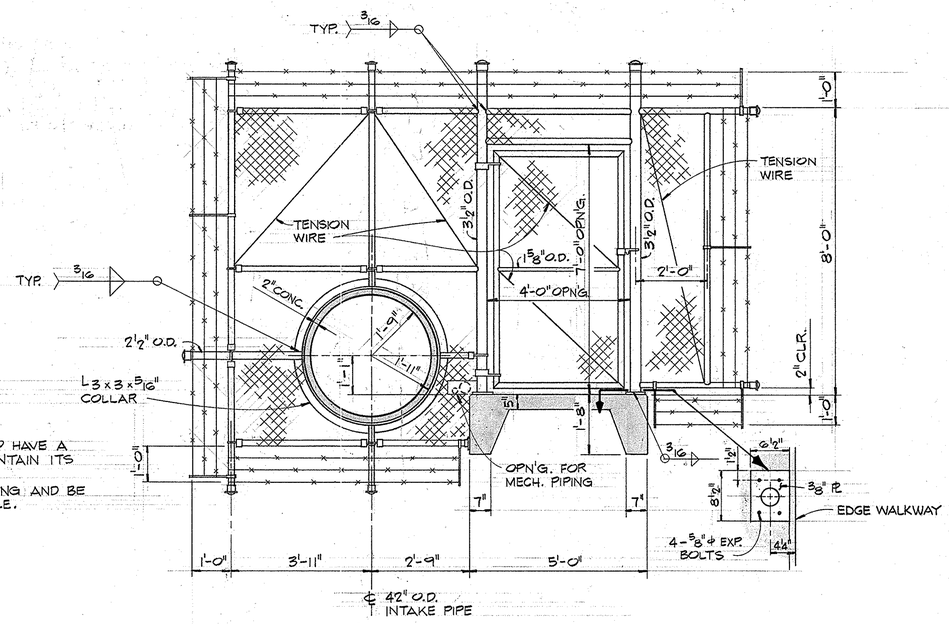
SECTION 8-9

1" = 1'-0"



GATE KEEPER

4 REQ'D. N.T.S.

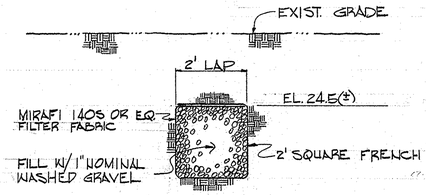


NOTES: 1) ALL GATE LEAVES TO HAVE A 1" ϕ DROP-ROD TO MAINTAIN ITS OPEN POSITION.
2) GATE LEAVES TO SWING AND BE OPEN MAXIMUM ANGLE.

NOTES: 1) ALL FENCE POST SHALL BE 2" O.D. PIPE UNLESS NOTED OTHERWISE.
2) FASTEN L3x3x5/16" COLLAR W/ "NELSON" CPL TYPE THR'D. STUD 2" x 3" CPL. STAINLESS STEEL @ 8 EQ. SPACES. REFILL INSTALLATION HOLES W/ NON-SHRINK, NON-METALLIC, ADHESIVE GROUT.

SECURITY FENCE & GATE AT PIPE - WALKWAY

1/2" = 1'-0"



NOTE: PERFORATED 8" ϕ PVC. PIPE SHALL HAVE 5/8" ϕ HOLES DRILLED 6" O.C. FOUR SIDES, STAGGER HOLES AROUND PIPE. SEE SH. 59 FOR LOCATION.

SECTION 7-9

1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY
2	8/12/86	ADDED SECTION 8-9	T.H.
1	7/17/86	REMOVED FENCING DETAILS	T.H.

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Meinrad F. Lang

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

FENCE DETAILS AND FRENCH DRAIN SECTION

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	MFL, JR.
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

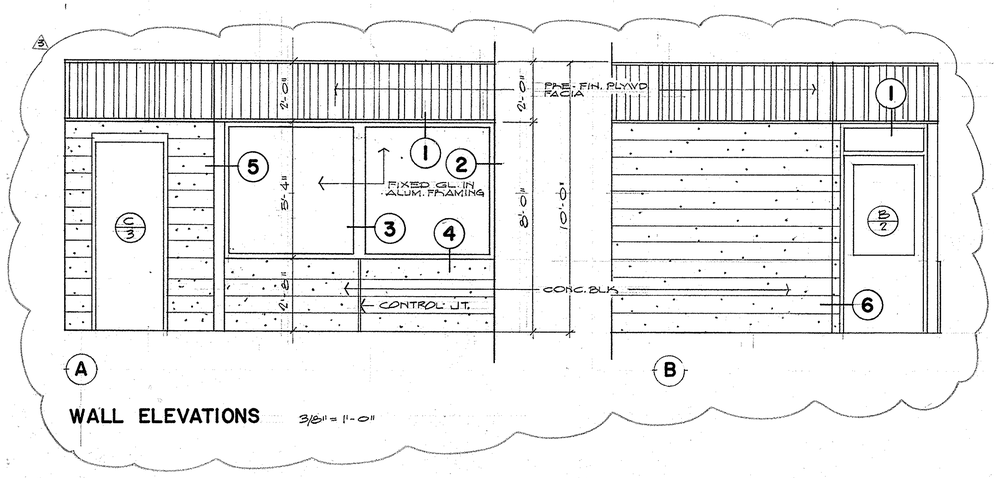
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 10

BRUNING 40-22 56957

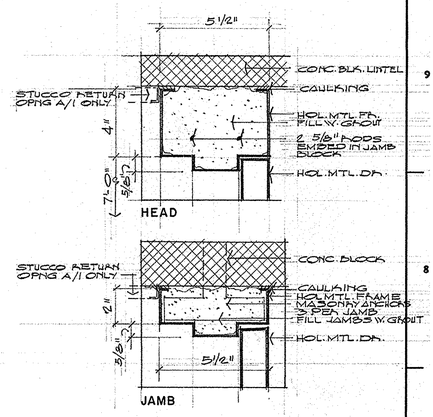
AF 12739



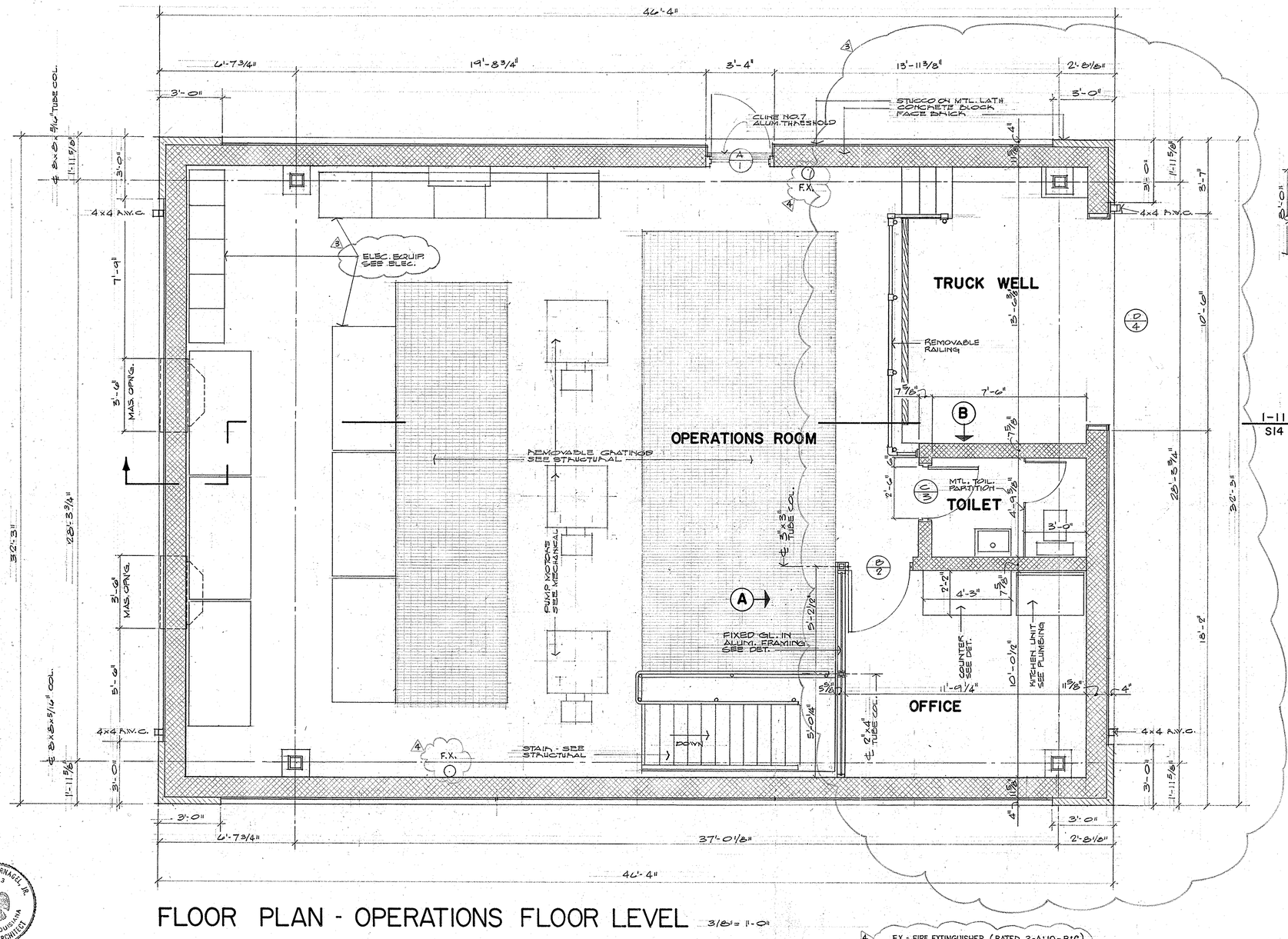
WALL ELEVATIONS 3/8" = 1'-0"

OPENING SCHEDULE

A/1	B/2	C/3	D/4
7'-4" FR. 7'-0" DR.	7'-4" FR. 7'-0" DR.	7'-4" FR. 7'-0" DR.	14'-5 3/4"
3'-0"	3'-0"	2'-6"	8" 10'-0" DR. 8"
HOLLOW METAL DR. IN METAL FRAME	FLUSH ALUM. DR. IN ALUM. FR. - SAFETY GL. VISION PANEL AS SHOWN	FLUSH HOL. MTL. DR. IN MTL. FRAME UNDERCUT BY 3/4"	OVERHEAD ROLLING STL. DOOR

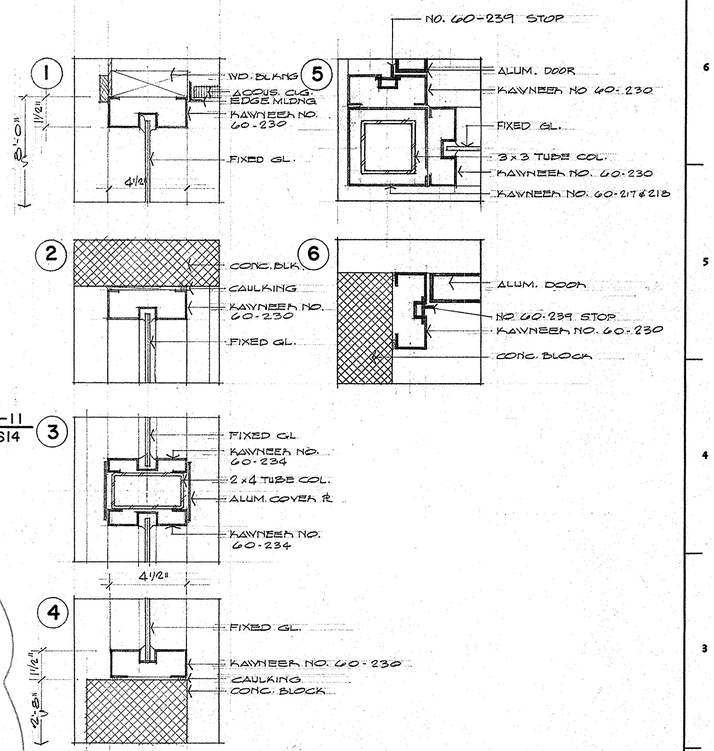


DOOR DETAILS OPNGS. A/1 C/3 3" = 1'-0"



FLOOR PLAN - OPERATIONS FLOOR LEVEL 3/8" = 1'-0"

4 F.X. = FIRE EXTINGUISHER (RATED 2-A:10-B:C)



ALUMINUM FRAMING DETAILS 3" = 1'-0"

REV.	DATE	DESCRIPTION	BY
2	12/22/88	LOCATED FIRE EXTINGUISHERS	J.A.V.
1	7/5/85	RELOCATED OFFICE, TRUCK WELL & ELEC. EQUIP.	V.P.M.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION OPERATIONS FLOOR PLAN

STATE OF LOUISIANA — MEINRAD F. LANG — REG. NO. 4318 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

EDMOND GENDERNAGEL JR. No. 613 — STATE OF LOUISIANA — REGISTERED ARCHITECT

CONTRACT NO. 1113

BERGERON AND LANG ENGINEERS METAIRIE, LOUISIANA

DR. EJB, JR.
TRC.
CK. EJB, JR.-ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

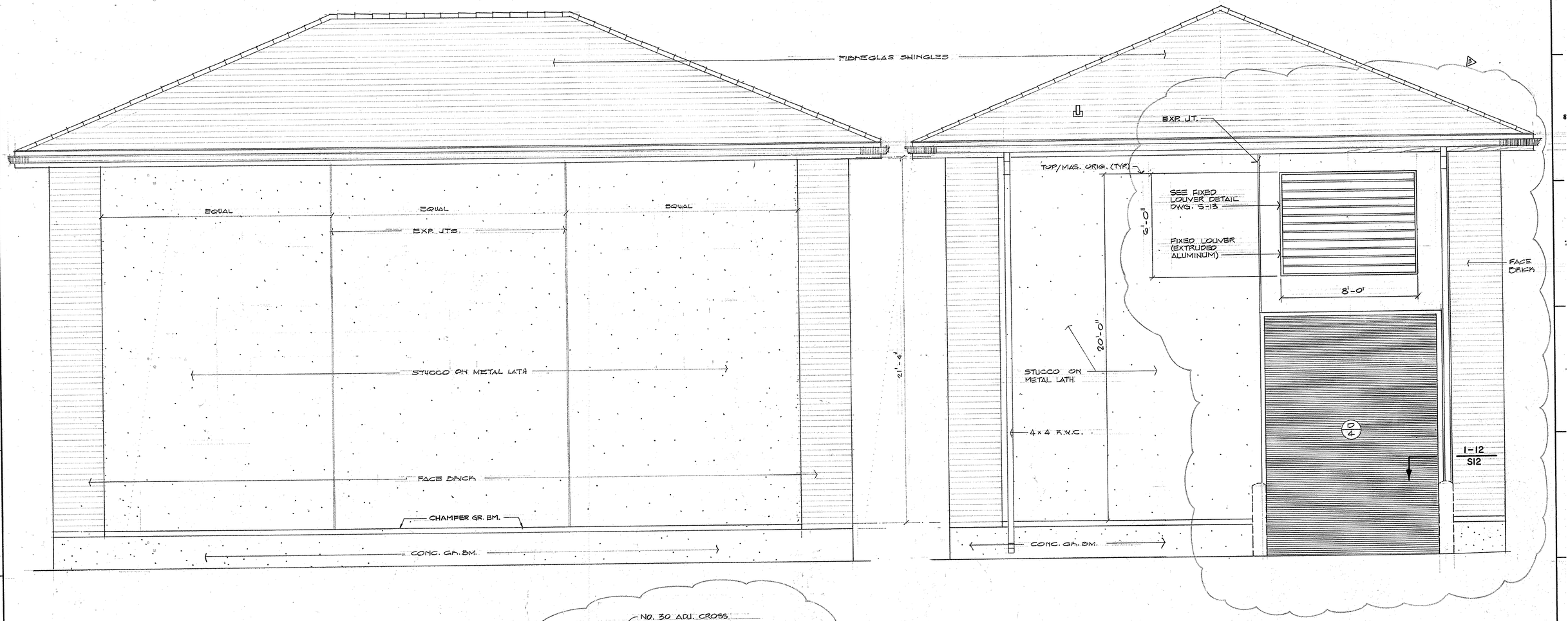
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. SHEET NO. S 11

BRUNING 40-22 56957

AF 12739

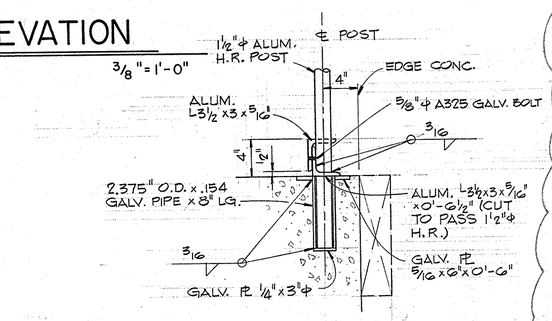


SOUTH ELEVATION

3/8" = 1'-0"

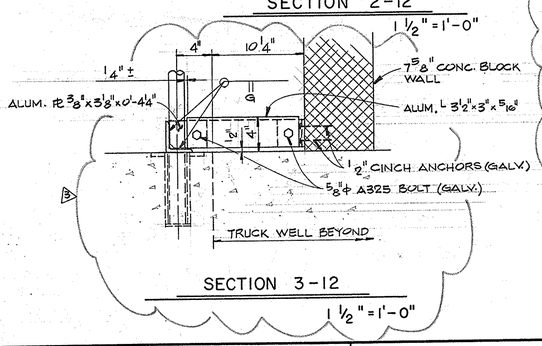
EAST ELEVATION

3/8" = 1'-0"



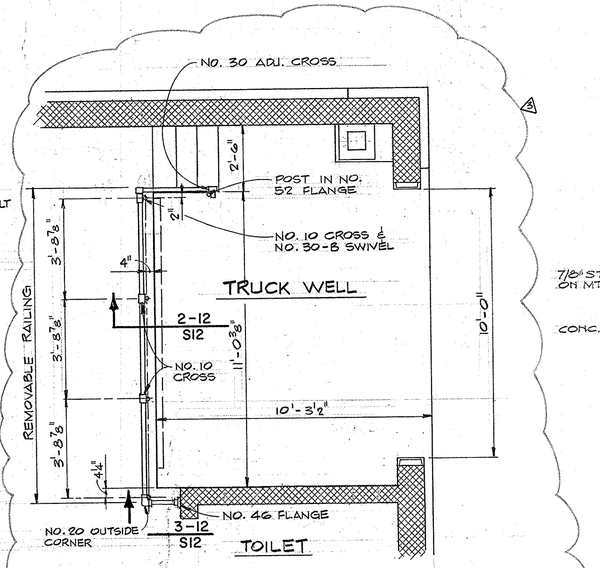
SECTION 2-12

1½" = 1'-0"



SECTION 3-12

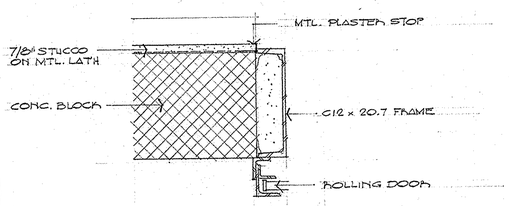
1½" = 1'-0"



NOTES: 1) ALL H.R. CONNECTIONS TO BE 1½" NU-RAIL TYPE.
2) ALL H.R. ℄ POST TO BE 1½"ϕ ALUM PIPE.

HANDRAIL PLAN AT TRUCK WELL

3/8"=1'-0"



SECTION 1-12

1½" = 1'-0"

EDMOND BENDERNAGEL, JR. No. 613 STATE OF LOUISIANA REGISTERED ARCHITECT

STATE OF LOUISIANA MEINRAD F. LANG REG. No. 4318 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Meinrad F. Lang

REV.	DATE	DESCRIPTION	BY
5	7/5/85	RELOCATED TRUCK WELL, LOUVERS & DOOR D-4.	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION ELEVATIONS

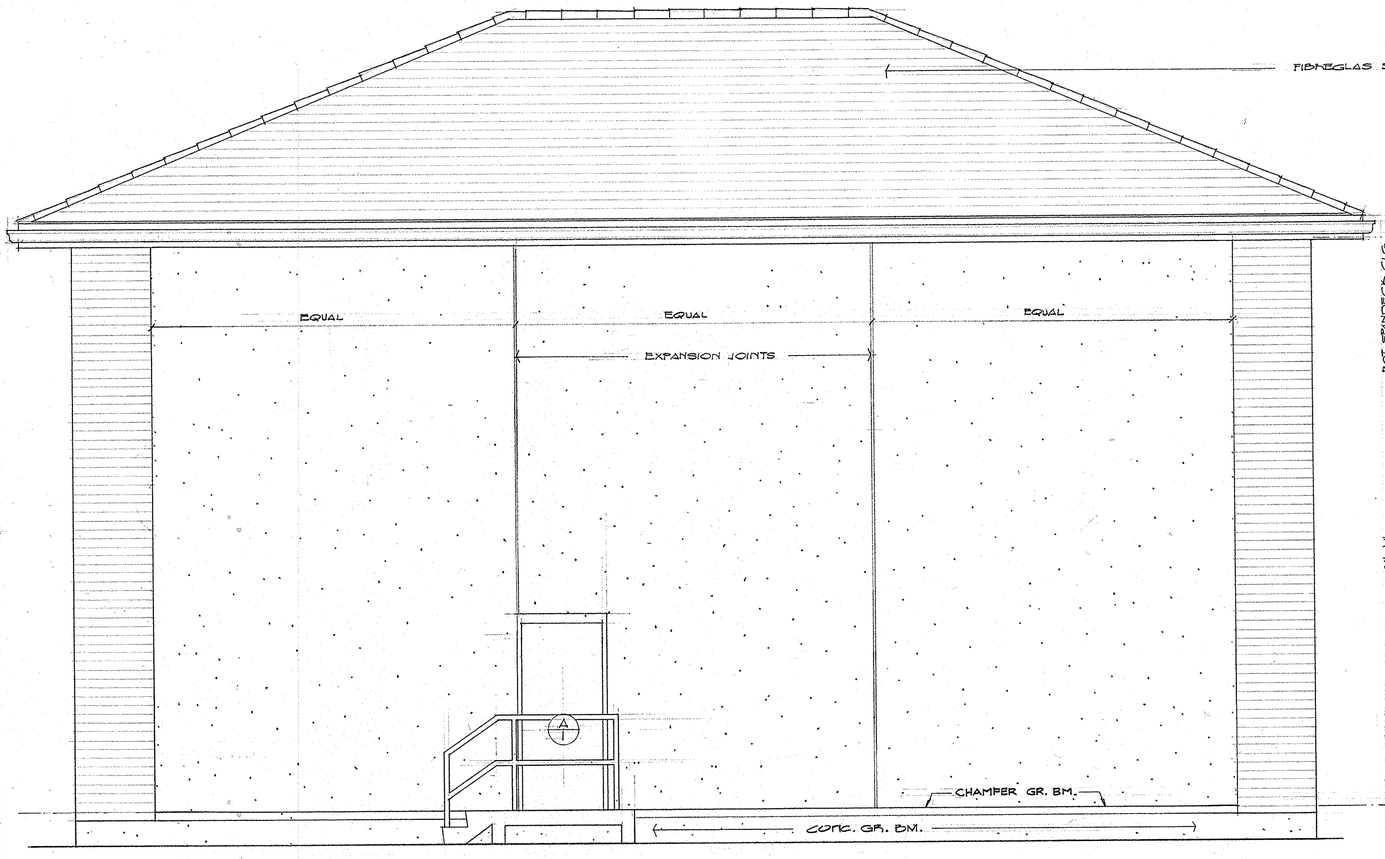
CONTRACT NO. 1113

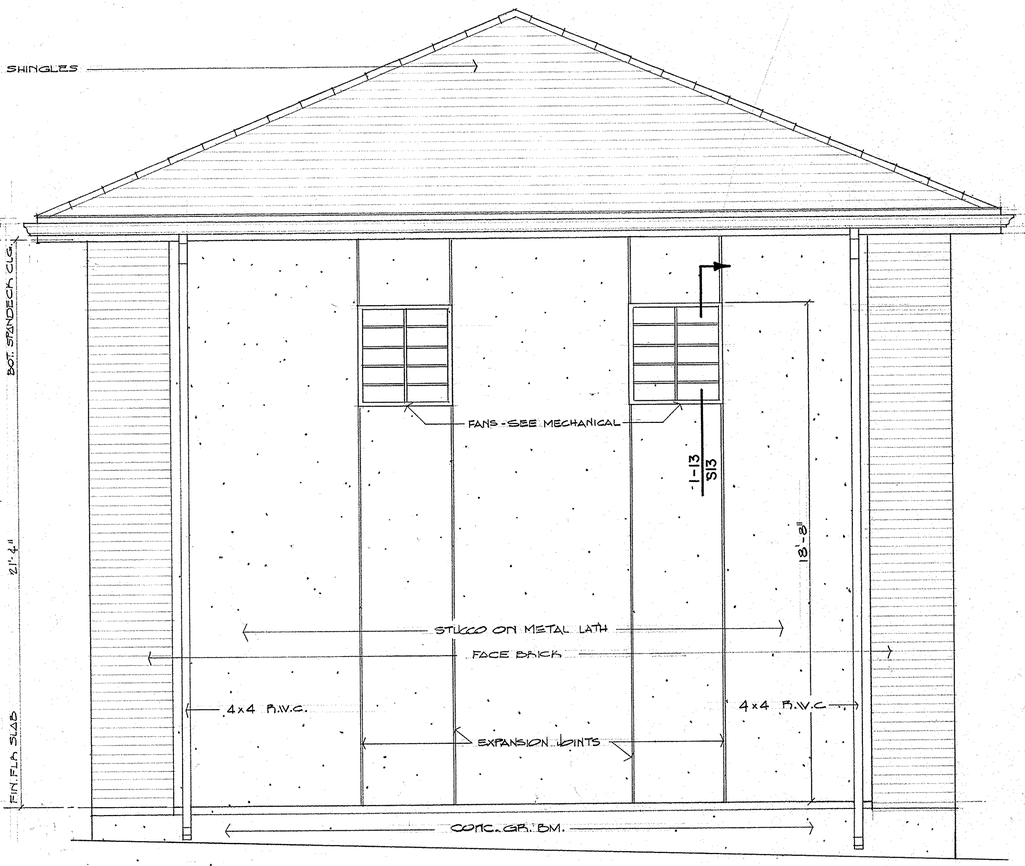
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. EJB, JR.-VPM	
TRC.	
CK. EJB, JR.-ARC	J. Gayle Sullivan GENERAL SUPERINTENDENT
AP.	
SCALE AS NOTED	DWG. No. 11540-W-20
DATE OCT. 16, 84	SET NO. — SHEET NO. S 12

BRUNING 40-22 59557

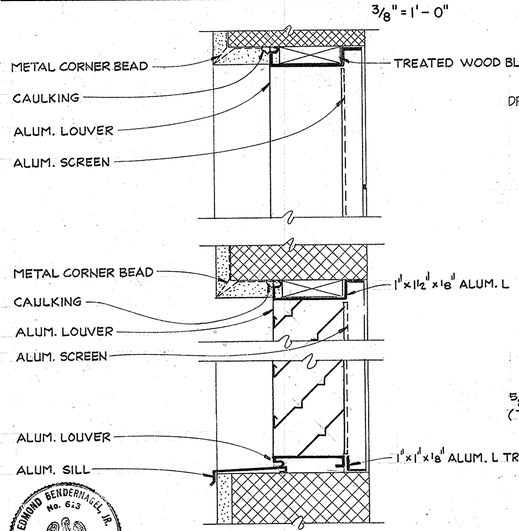
AF 12739





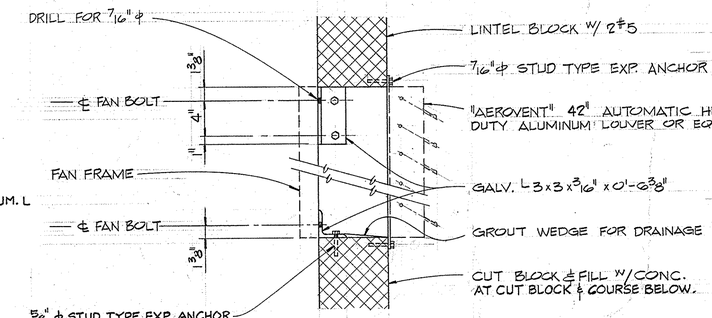
NORTH ELEVATION

3/8" = 1'-0"



FIXED LOUVER DETAIL

3" = 1'-0"

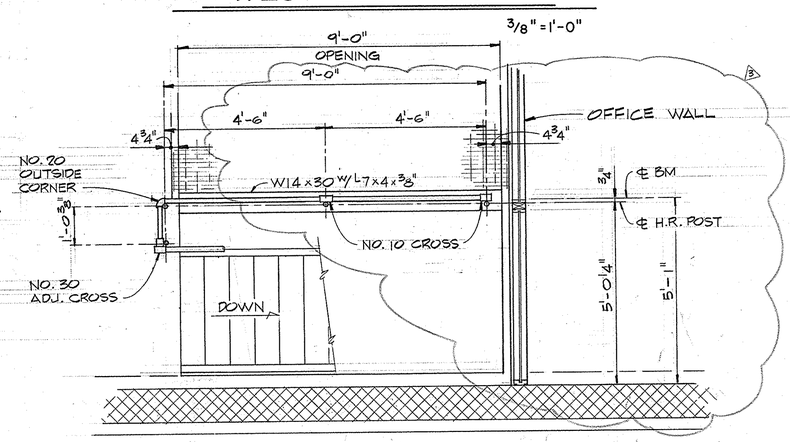


SECTION 1-13

1½" = 1'-0"

WEST ELEVATION

3/8" = 1'-0"



NOTES: 1) ALL POST CONNECTIONS TO CONCRETE W/ NO. 45 FLG.
2) ALL H.R. CONNECTIONS 1½" NU-RAIL TYPE

HANDRAIL PLAN AT STAIRS

½" = 1'-0"

EDMOND BENDERNAGEL, JR. No. 613 STATE OF LOUISIANA REGISTERED ARCHITECT

STATE OF LOUISIANA MEINRAD F. LANG REG. No. 4318 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Meinrad F. Lang

REV.	DATE	DESCRIPTION	BY
2	7/15/85	REVISED HANDRAIL	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION ELEVATIONS

CONTRACT NO. 1113

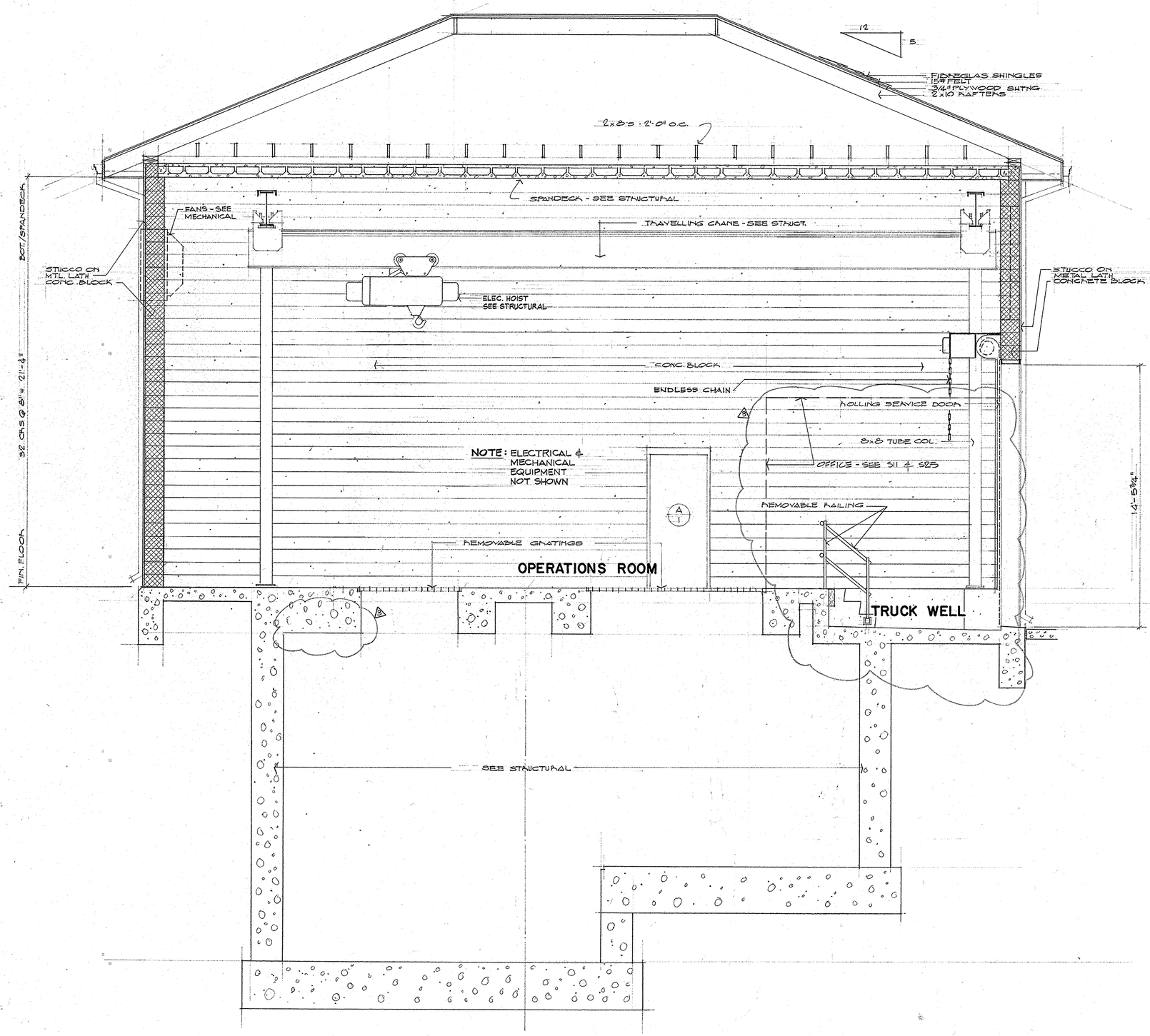
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. EJB, JR.-VPM	
TRC.	
CK. EJB, JR.-ARC	
AP.	
SCALE AS NOTED	DWG. No. 11540-W-20
DATE OCT. 16, 84	SET NO. SHEET NO. S 13

J. Joseph Sullivan
GENERAL SUPERINTENDENT

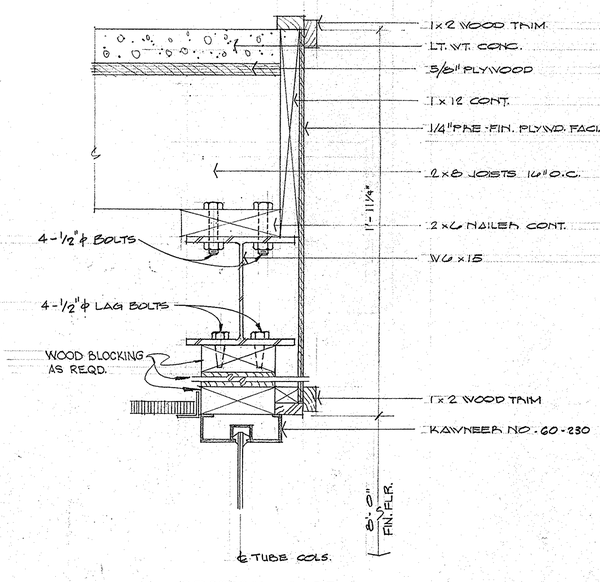
BRUNING 40-22 56857

AF 12739

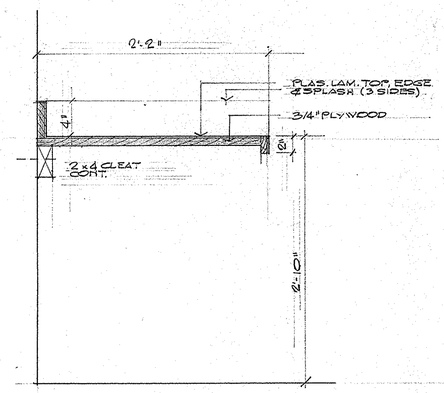


SECTION I-II

3/8" = 1'-0"



SECTION 4-25



SECTION THRU LUNCH COUNTER 1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	RELOCATED OFFICE, WIDENED CONC. BEAM	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION SECTIONS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. EJB, JR.
TRC.
CK. EJB, JR.-ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

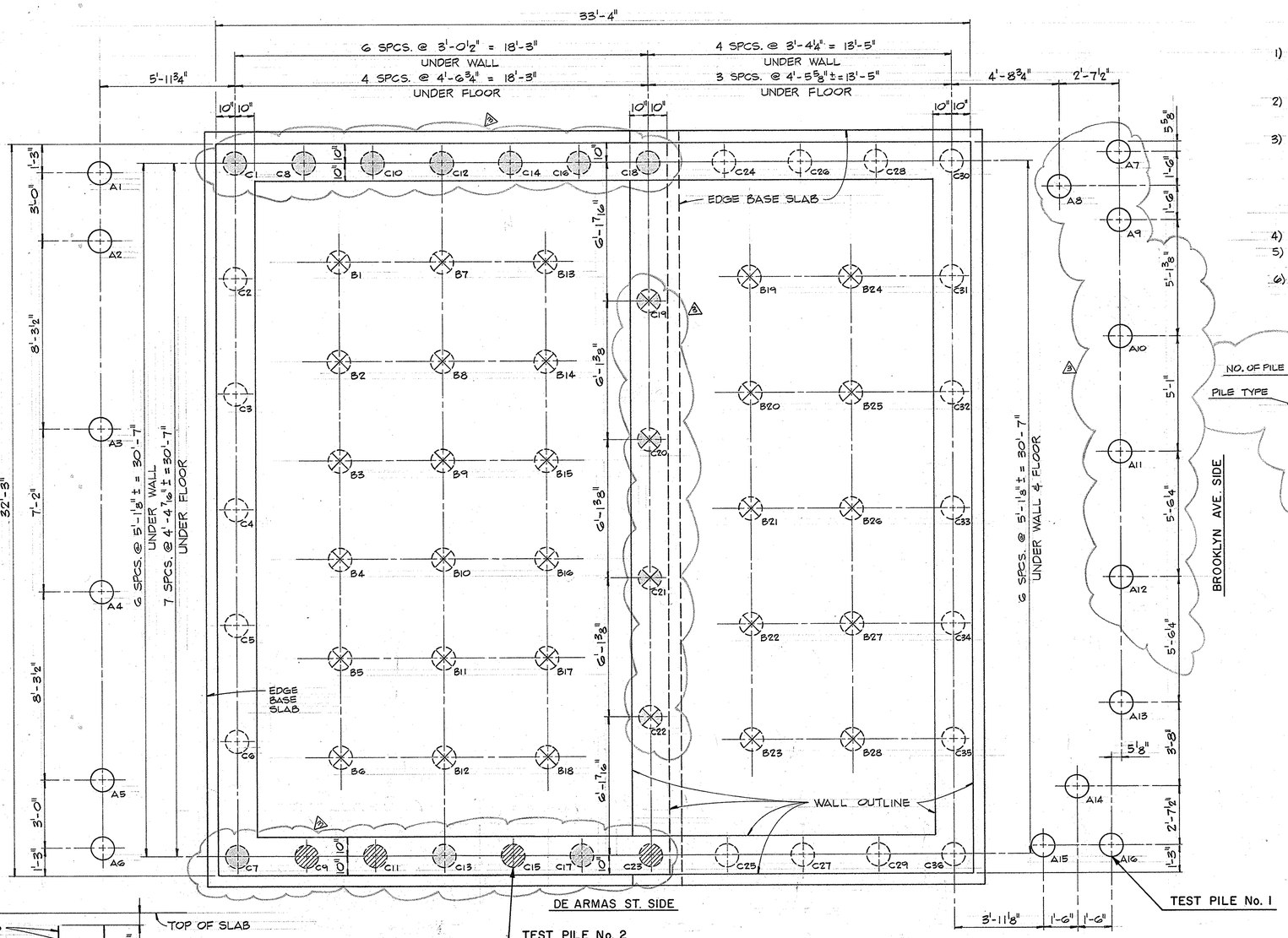
DWG. No. 11540-W-20
SET NO.
SHEET NO. S 14

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

EDMOND GENDERNALIK, JR. No. 613 STATE OF LOUISIANA REGISTERED ARCHITECT

BRUNING 40-22 56957

AF 12739



PILING PLAN

3/8" = 1'-0"

GENERAL NOTES

1) PILING USED IN THE WORK SHALL BE TIMBER, SOUTHERN YELLOW PINE, OR DOUGLAS FIR AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D25-70 FOR END BEARING PILES.
2) PILE TYPES DESIGNATED AS TREATED SHALL BE CREOSOTED IN ACCORDANCE WITH THE PROVISIONS OF AWPA STANDARD C3, LATEST REVISION.
3) TYPES OF PILING USED IN THE WORK SHALL BE AS FOLLOWS:
   - TYPE "A" – 14.5 TONS COMPRESSION, 9.7 TONS UPLIFT
   - TYPE "B" – 15.0 TONS COMPRESSION, 10.0 TONS UPLIFT
   - TYPE "C" – 60' LONG PILES – 16.5 TONS COMPRESSION / 11.0 TONS UPLIFT; 70' LONG PILES – 18.5 TONS COMPRESSION
4) SEE DWG. NO. 52 FOR LOCATION OF BORING B-2.
5) ALL CONCRETE USED IN THE WORK SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28 DAYS.
6) GENERAL NOTES SHOWN AND STATED ON S19 SHALL APPLY TO THIS PART OF THE WORK AND SHALL BE USED ACCORDINGLY.

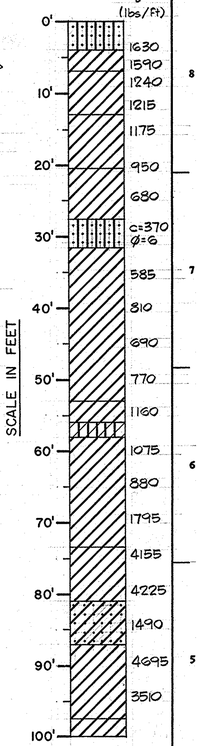
LEGEND

NO. OF PILE / PILE TYPE (e.g. C36)

- ○ – INDICATES 50' LONG TREATED TIMBER PILE
- ⊗ – INDICATES 50' LONG UNTREATED UPLIFT TIMBER PILE
- ◌ – INDICATES 60' LONG UNTREATED TIMBER PILE
- ⊗ – INDICATES 60' LONG UNTREATED UPLIFT TIMBER PILE
- ◍ – INDICATES 70' LONG UNTREATED TIMBER PILE
- ▨ – INDICATES 70' LONG COMPOSITE PILES (60' TIMBER & 10' STEEL AND CONCRETE)

PILE BUTT ELEVATIONS

PILE DESIGNATION	ELEV. (C.D.)
A1 THRU A6, A12 THRU A16	23.42'
A7 THRU A11	22.42'
B1 THRU B6, B8 THRU B12, B14 THRU B18, C1 THRU C11, C20 THRU C23, C13, C15, C17	6.73'
B19 THRU B28, C24 THRU C36	11.86'
B13, C14, C16, C18	4.73'
C19	5.67'
B7	6.40'



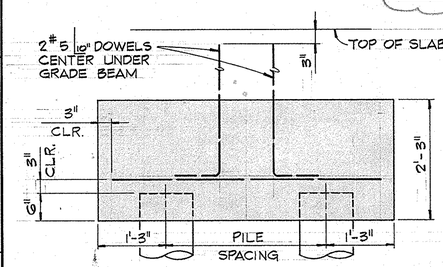
LOG OF BORING B-2

CLAY SILT SAND

PREDOMINANT TYPE BOLD

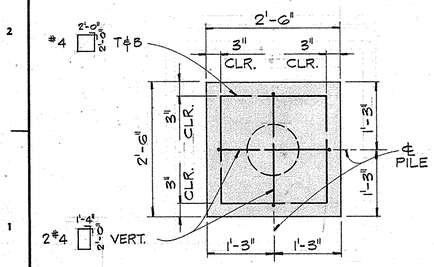
MODIFYING TYPE LIGHT

SEE SH. S2 FOR LOCATION



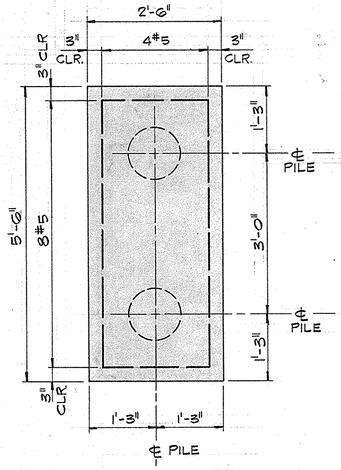
TYPICAL PILE CAP DETAIL

3/4" = 1'-0"



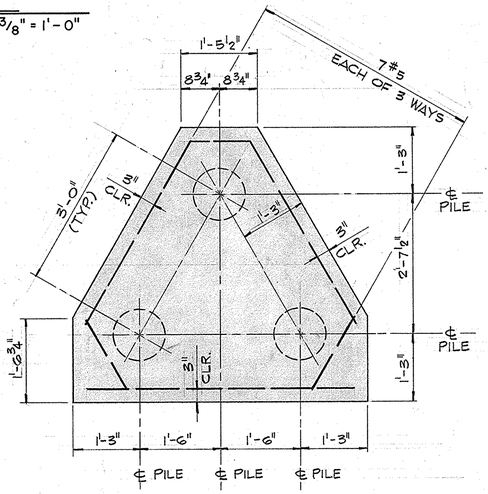
ONE PILE CAP DETAIL

3/4" = 1'-0"



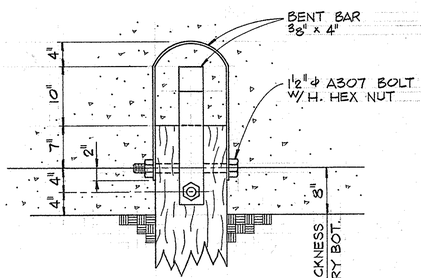
TWO PILE CAP DETAIL

3/4" = 1'-0"



THREE PILE CAP DETAIL

3/4" = 1'-0"



UPLIFT PILE DETAIL

1"=1'-0"

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

REV.	DATE	DESCRIPTION	BY
3	7/5/85	ADDED PILES, CHANGED PILE BUTT ELEVS. & RELOCATED PILES	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION PILING PLAN & DETAILS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

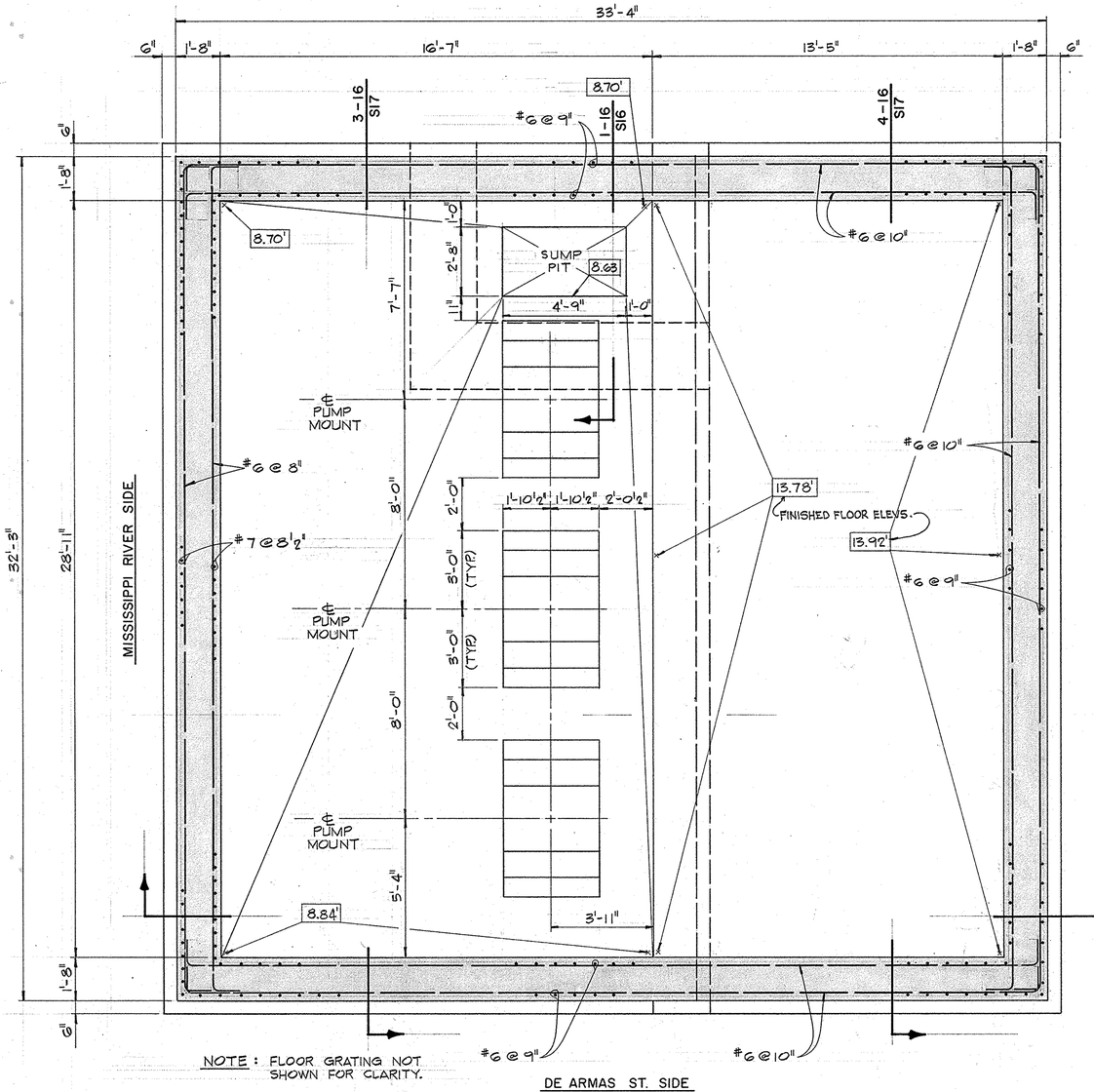
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

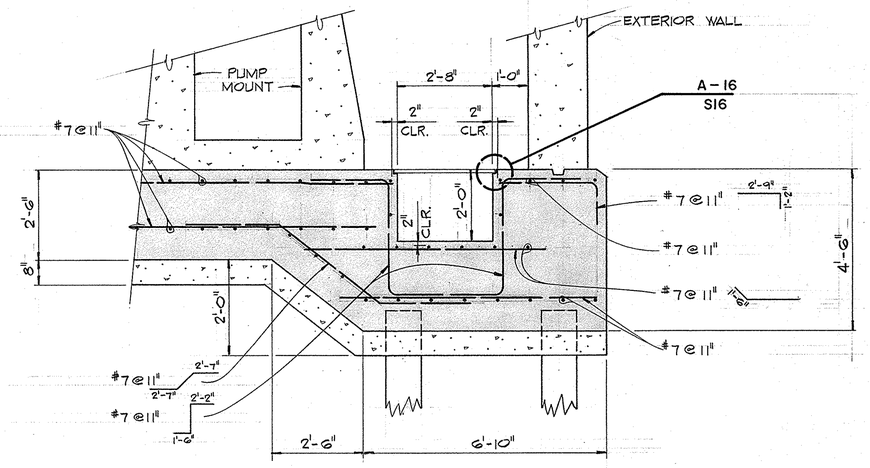
SET NO. | SHEET NO. S 15

BRUNING 40-22 56957

AF 12739



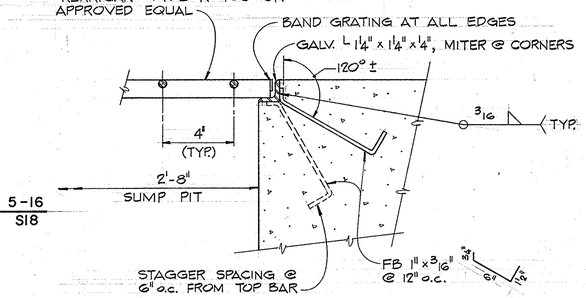
PUMP FLOOR (DRY WELL) – PLAN



SECTION 1-16

1/2" = 1'-0"

NOTE: MODIFY GRATING FOR SUMP TO ALLOW INSTALLATION OF GORMAN-RUPP TURTLE SWITCH ASSEMBLY LS-2. SEE SHEET NO. S31.

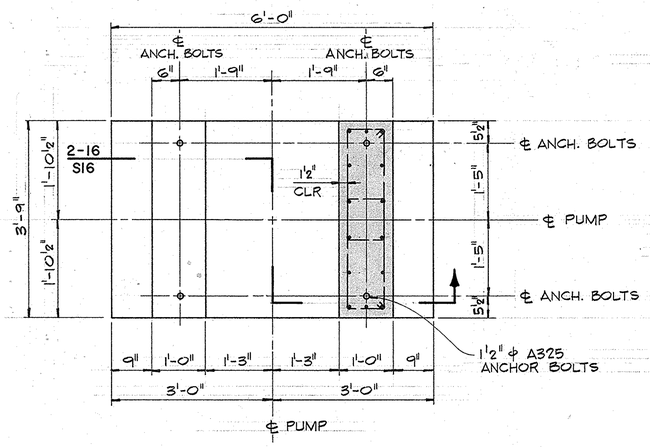


DETAIL A-16

3" = 1'-0"

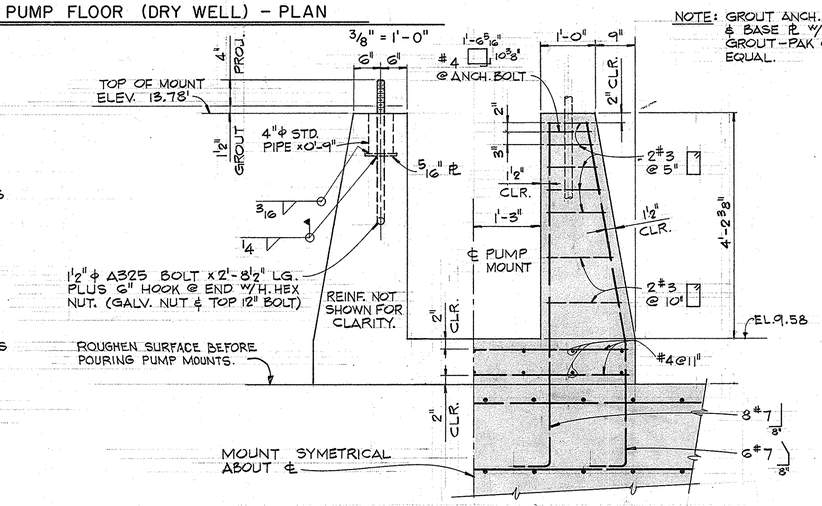
GENERAL NOTES

1. GENERAL NOTES SHOWN AND STATED ON SH. S19 SHALL APPLY TO THIS PART OF THE WORK AND SHALL BE USED ACCORDINGLY.
2. ALL KEYWAYS AT CONSTRUCTION JOINTS SHALL BE TIMBER SOUTHER YELLOW PINE 2 INCH BY 6 INCH MATERIAL. MATERIAL SHALL BE BEVEL CUT ON EACH CONT. SIDE AND WELL OILED TO PROMOTE EASY REMOVAL.



PUMP MOUNT – PLAN

3/4" = 1'-0"



NOTE: GROUT ANCH. BOLTS & BASE PL W/ "SIKADUR" GROUT-PAK OR APPROVED EQUAL.

SECTION 2-16

3/4" = 1'-0"

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING
Meinrad F. Lang

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION DRY WELL PLAN & SECTIONS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

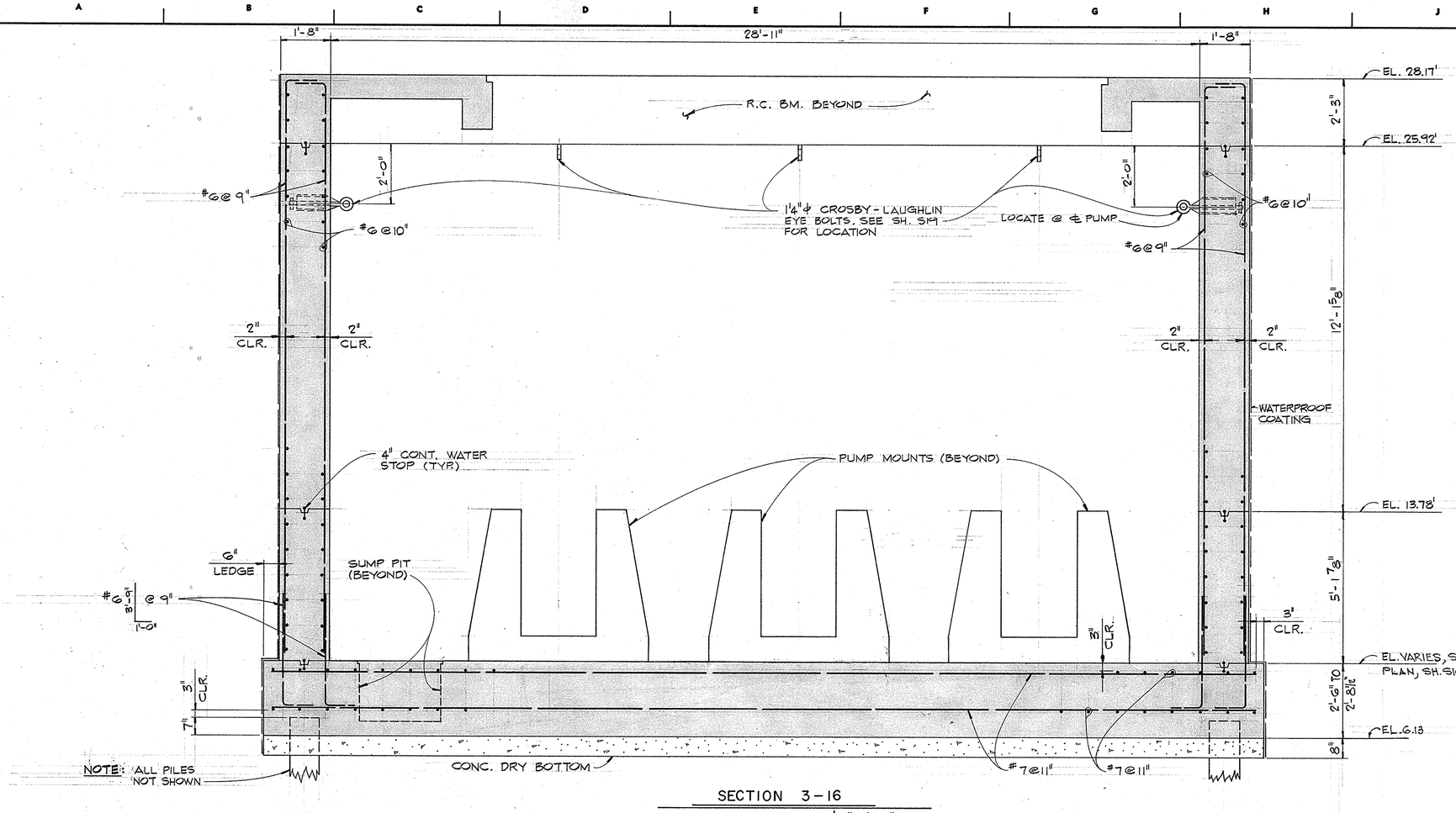
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.
SHEET NO. S 16

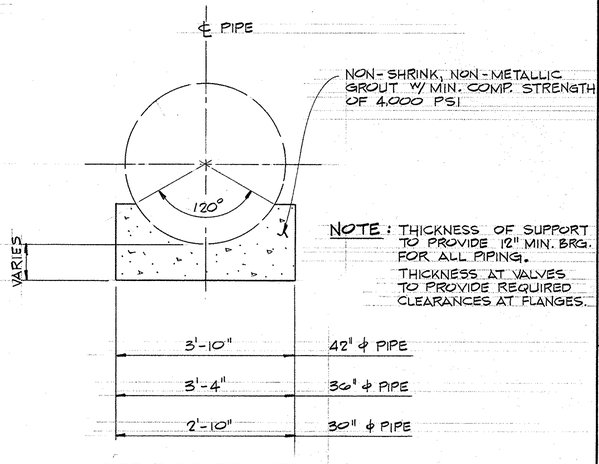
BRUNING 40-22 56957

AF 12739



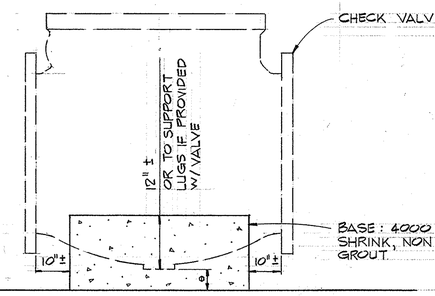
SECTION 3-16

½" = 1'-0"



PIPE SUPPORT DETAIL

(SIMILAR AT BUTTERFLY VALVES) N.T.S.

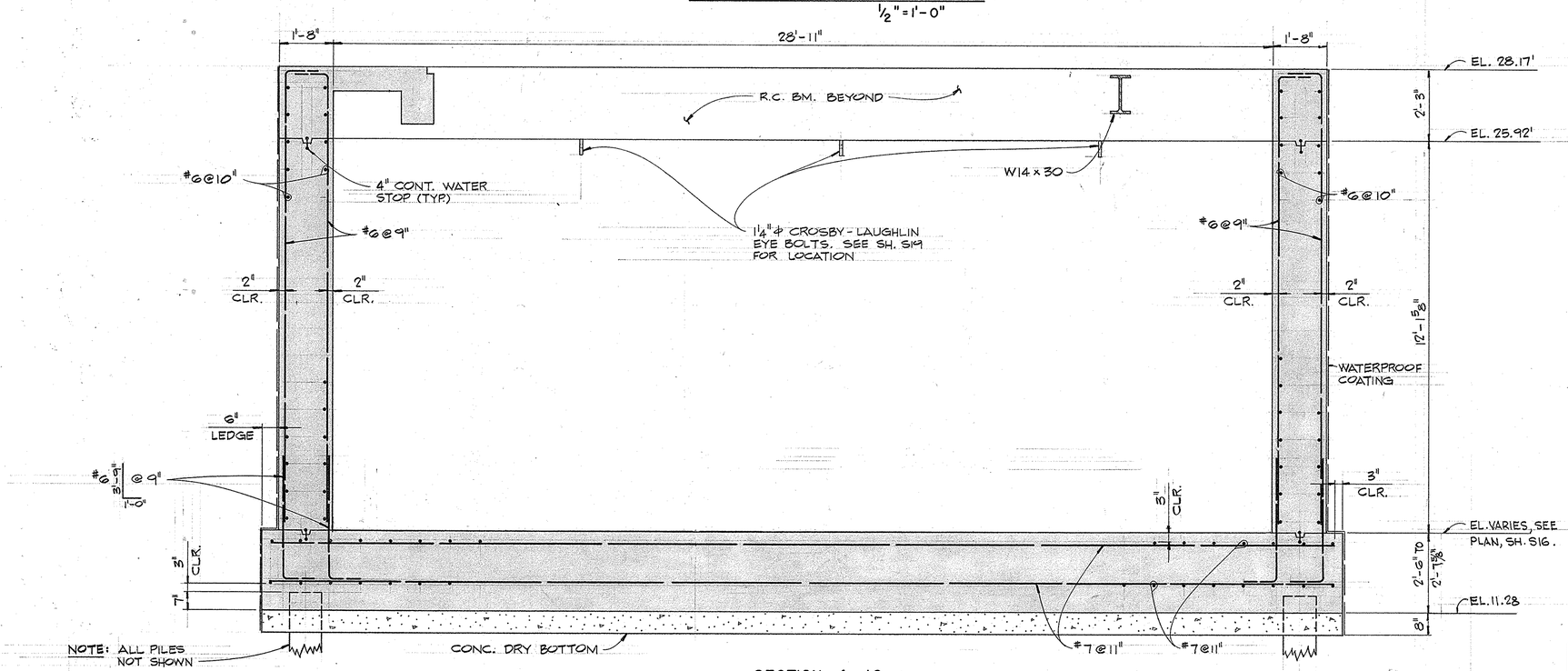


° VARIES W/EQUIP. FURNISHED

NOTE: SUPPORT TO BE 4" WIDER ON EA. SIDE THAN LARGEST DIMENSION OF VALVE

CHECK VALVE SUPPORT DETAIL

N.T.S.



SECTION 4-16

½" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION DRY WELL SECTIONS

STATE OF LOUISIANA — MEINRAD F. LANG, REG. No. 4318, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Meinrad F. Lang

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

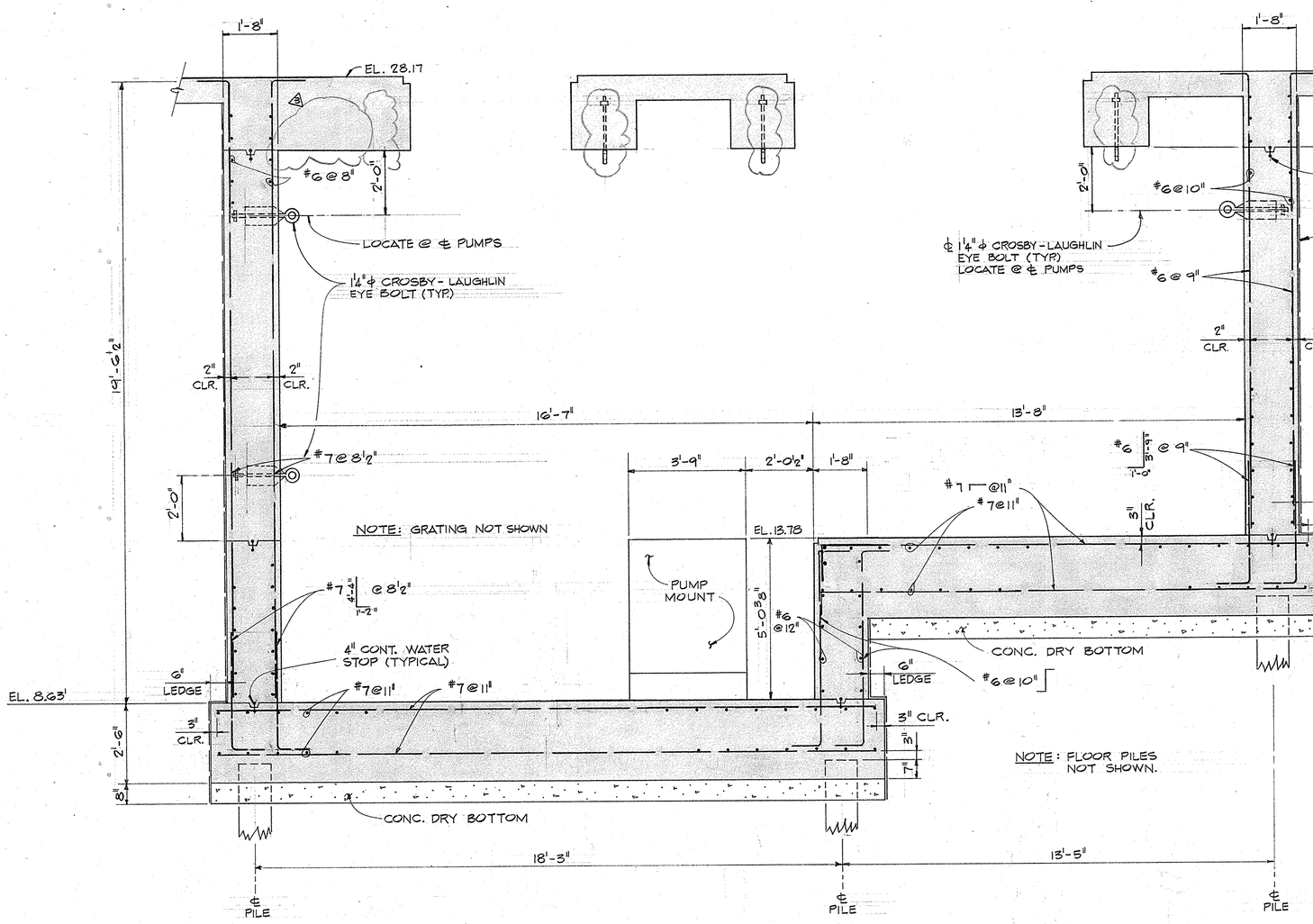
J. Joseph Suckling
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S17

BRUNING 40-22 56957

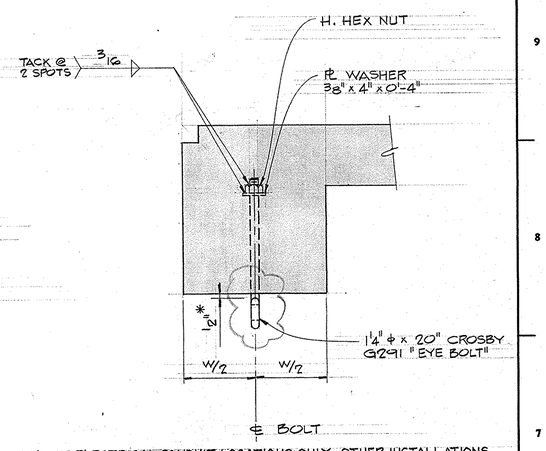
AF 12739



SECTION 5-16

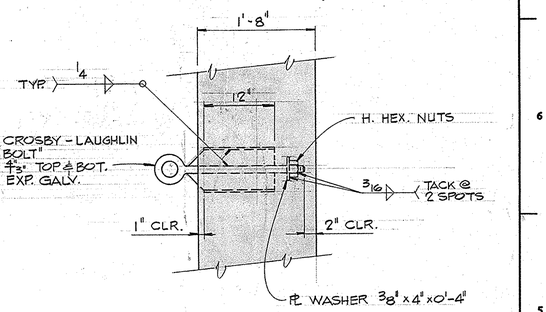
½"=1'-0"

NOTE: FLOOR PILES NOT SHOWN.



* AT ELECTRICAL CONDUIT LOCATIONS ONLY. OTHER INSTALLATIONS TO HAVE BM SOFFIT FLUSH W/OUTER EDGE OF "EYE" RING.

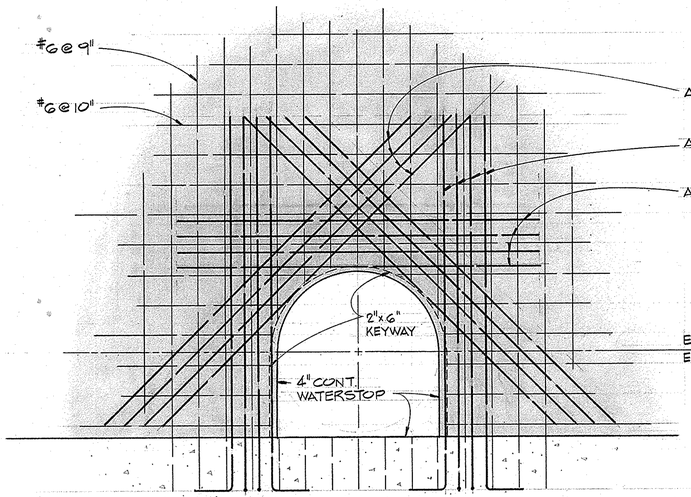
VERTICAL BOLT



HORIZONTAL BOLT

"EYE" BOLT DETAILS

1"=1'-0"



ADD 4#6 x {12'-0" LG. @ 42" ϕ / 11'-6" LG @ 36" ϕ

ADD 4#6 x { 3 @ 1'-0" @ 42" ϕ / 3 @ 1'-0" @ 36" ϕ

ADD 4#6 x {10'-0" LG. @ 42" ϕ / 9'-6" LG. @ 36" ϕ

NOTE: ADDED REINF. SHALL BE SUPPLIED @ EA. FACE OF WALL. ALL ADDED & CUT BARS TO BE 2" CLEAR OF OPN'G.

EL. 16.3021' @ 36" ϕ DISCHARGE
EL. 11.125' @ 42" ϕ INTAKE

REINFORCING DETAIL FOR WALL OPENINGS AT INTAKE & DISCHARGE LINES

½"=1'-0"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	WIDENED CONC. BEAM, DELETED 3 EYE BOLTS & REORIENTED OTHERS	VPM

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
CIVIL ENGINEERING

Meinrad F. Lang

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. I, ALGIERS, LOUISIANA

PUMPING STATION DRY WELL SECTIONS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

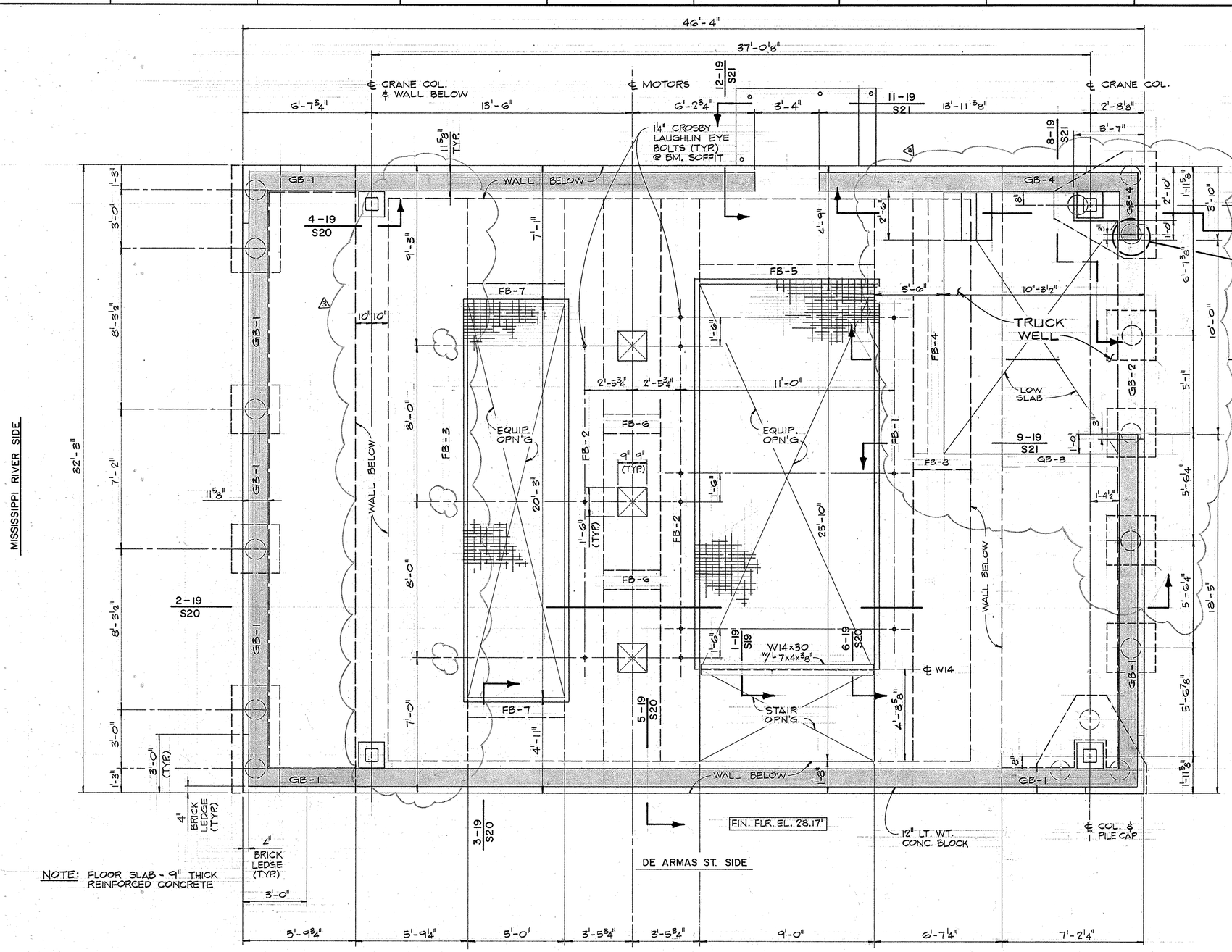
J. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.
SHEET NO. S 18

BRUNING 40-22 56957

AF 12739



NOTE: FLOOR SLAB - 9" THICK REINFORCED CONCRETE

OPERATIONS FLOOR – PLAN

3/8" = 1'-0"

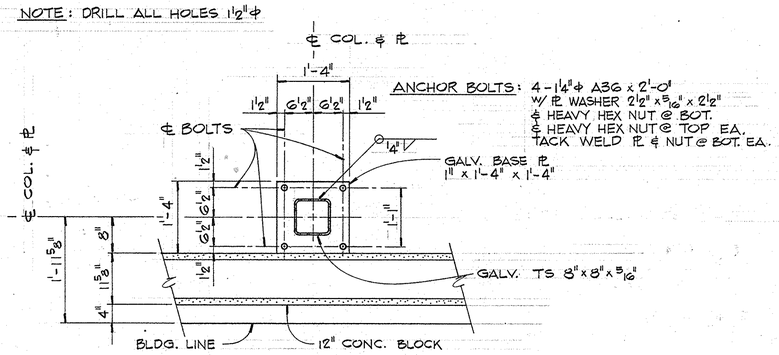
GENERAL NOTES

1) ALL CONCRETE USED IN THE WORK SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS.
2) IF HIGH EARLY STRENGTH CONCRETE IS REQUIRED, IT SHALL BE ATTAINED BY USE OF ACCELLERATING ADMIXTURES OR BY INCREASING THE CEMENT CONTENT OF THE MIX. USE OF EITHER METHOD WILL BE SUBJECT TO THE ENGINEER'S APPROVAL.
3) ALL CONCRETE WORK SHALL BE MECHANICALLY VIBRATED TO INSURE PROPER PLACEMENT.
4) ALL REINFORCING STEEL USED IN THE WORK SHALL CONFORM TO ASTM DESIGNATION A615, GRADE 60 STEEL AND SHALL HAVE A MINIMUM YIELD POINT OF 60,000 PSI.
5) CONSTRUCTION OF ALL REINFORCED CONCRETE WORK SHALL CONFORM TO THE PROVISIONS OF THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AS PUBLISHED BY ACI COMMITTEE 318-77.
6) ALL END HOOKS SHOWN ON REINFORCING STEEL SHALL BE DIMENSIONED AS STD. HOOKS UNLESS NOTED OTHERWISE.
7) ALL STRUCTURAL STEEL SHAPES & PLATES USED IN THE WORK SHALL CONFORM TO THE REQUIRMENTS FOR ASTM A36 STEEL WITH A MIN. YIELD STRENGTH OF 36,000 PSI.
8) ALL STRUCTURAL STEEL PIPE USED IN THE WORK SHALL CONFORM TO THE REQUIRMENTS FOR ASTM A53, TYPE S, GRADE B SEAMLESS STEEL PIPE WITH A MIN. YIELD POINT OF 35,000 PSI.
9) ALL STRUCTURAL STEEL TUBE USED IN THE WORK SHALL CONFORM TO THE REQUIRMENTS FOR ASTM A500, GRADE B SEAMLESS STEEL TUBING WITH A MIN. YIELD STRENGTH OF 46,000 PSI.
10) CONSTRUCTION OF ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE PROVISIONS OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST REVISION.
11) ALL WELDING SHALL CONFORM TO THE PROVISIONS OF AWS-D1.1-83. ALL ELECTRODES USED FOR WELDING STRUCTURAL STEEL SHALL BE E-70XX AND SHALL BE COMPATIBLE WITH THE QUALITY OF THE STEEL JOINED.
12) STRUCTURAL ALUMINUM USED IN THE WORK SHALL BE ALLOY TYPE 6061-T6 AND SHALL CONFORM TO THE REQUIRMENTS OF ASTM B 241 (FOR PIPE), B 308 (FOR SHAPES), AND B 209 (FOR PLATE) ALL WITH A MINIMUM YIELD STRENGTH OF 35,000 PSI.

CONCRETE BEAM SCHEDULE

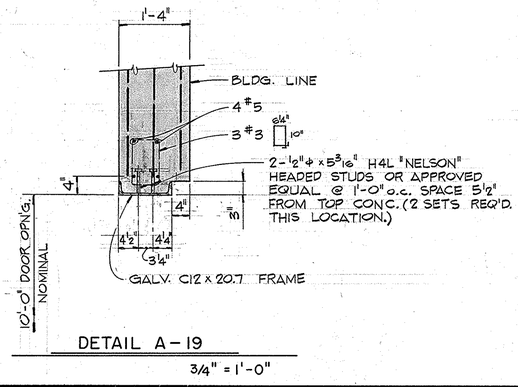
MARK	WIDTH (IN)	DEPTH (IN)	LONGITUDAL BARS BOTTOM	LONGITUDAL BARS TOP	LONGITUDAL BARS OTHER	STIRRUPS No.-SIZE	STIRRUPS SPACING FROM FACE OF SUPPORT
FB-1	24	27	6 #9	6 #8	3 #8 E.S.	30 #3	3@8", REM. @ 12" o.c. MAX.
FB-2	24	27	6 #10	5 #9	1 #4 CONT.	32 #3	6@8", do
FB-3	24	27	5 #10	5 #9	1 #4 CONT.	32 #3	6@8", do
FB-4	10	33	2 #6	2 #4	2 #4 E.S.	13 #3	1@6", do
FB-5	12	21	3 #5	2 #5	——	#3	1@5", 9" o.c. MAX.
FB-6	12	18	2 #4	2 #4	——	#3	1@4", 8" o.c. MAX.
FB-7	12	21	3 #4	2 #4	1 #4 CONT.	#3	1@5", 9" o.c. MAX.
FB-8	10	33	2 #5 BENT	2 #4	2 #5	4 #3	1@6", 1@7 1/2
GB-1	16	36	4 #4	3 #4	——	VARIES #3	1@6, REM @ 12" o.c. MAX.
GB-2	16	24	4 #5	4 #5	——	4 #3	2@6
GB-3	8	33	2 #4	2 #4	2 #3 E.S.	6 #3	1@6, REM @ 12" o.c. MAX.
GB-4	16	48	4 #4	3 #4	——	VARIES #3	1@6, do

NOTE: DRILL ALL HOLES 1 1/2" ϕ



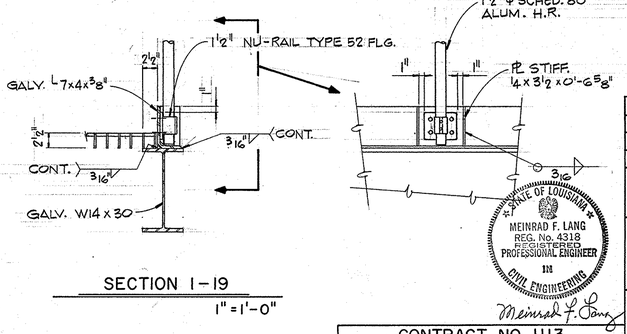
CRANE COL. BASE PL DETAIL

3/4" = 1'-0"



DETAIL A-19

3/4" = 1'-0"



SECTION 1-19

1" = 1'-0"

REV.	DATE	DESCRIPTION	BY
3	7/5/85	RELOCATED TRUCK WELL, ADDED GB-4, DELETED FB-9 & 3 EYE BOLTS	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION OPERATIONS FLOOR FRAMING PLAN

STATE OF LOUISIANA — MEINRAD F. LANG — REG. No. 4318 — REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

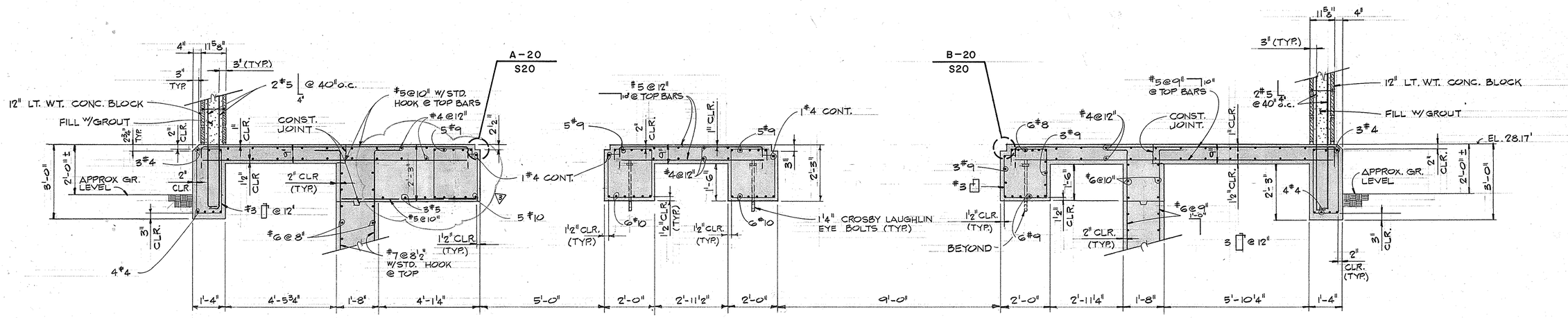
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. SHEET NO. S 19

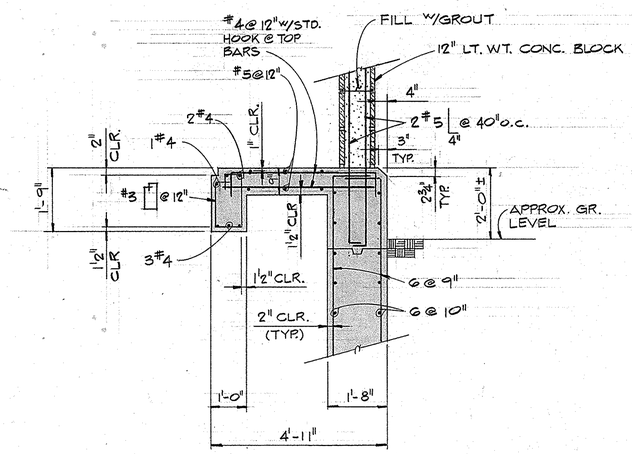
BRUNING 40-22 56957

AF 12739



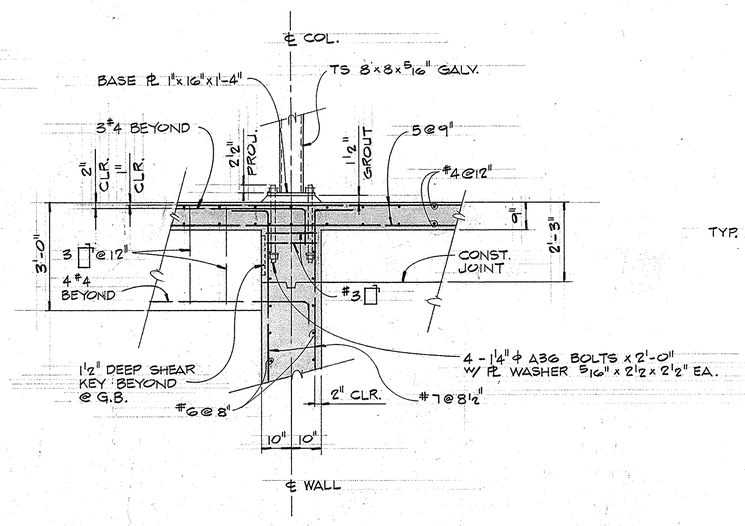
SECTION 2-19

1/2" = 1'-0"



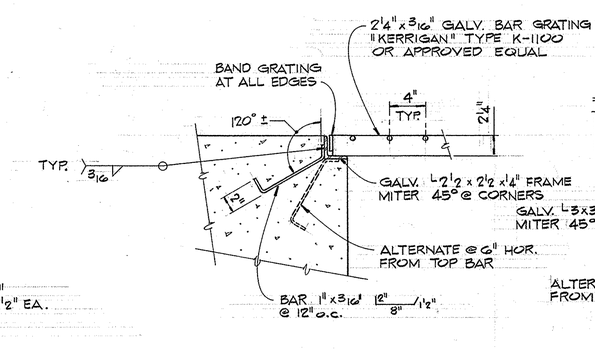
SECTION 3-19

1/2" = 1'-0"



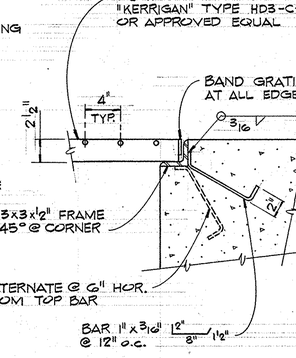
SECTION 4-19

1/2" = 1'-0"



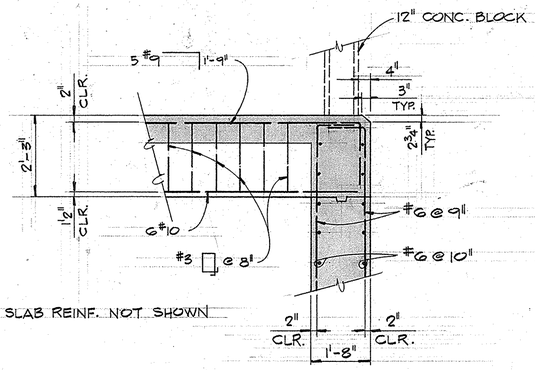
DETAIL A-20

1 1/2" = 1'-0"



DETAIL B-20

1 1/2" = 1'-0"

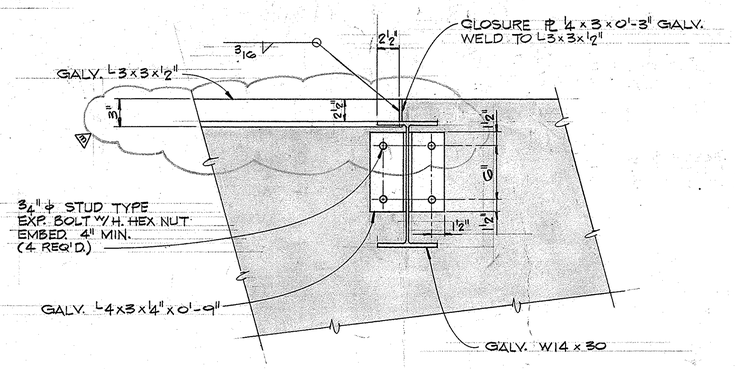


NOTE: SLAB REINF. NOT SHOWN

SECTION 5-19

1/2" = 1'-0"

NOTE: L 7 x 4 @ TOP FLANGE NOT SHOWN



SECTION 6-19

1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY
3	7/5/85	WIDENED CONC. BEAM, RAISED W14x30	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION SECTIONS & DETAILS

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Meinrad F. Lang

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

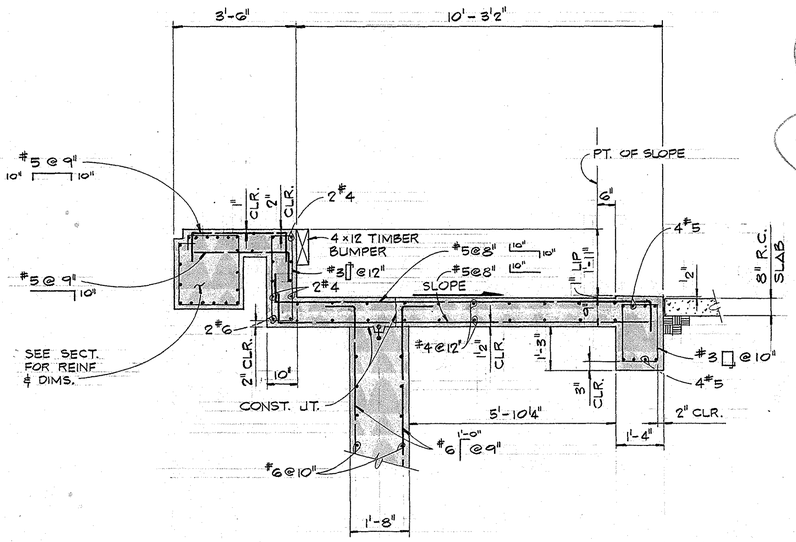
S. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 20

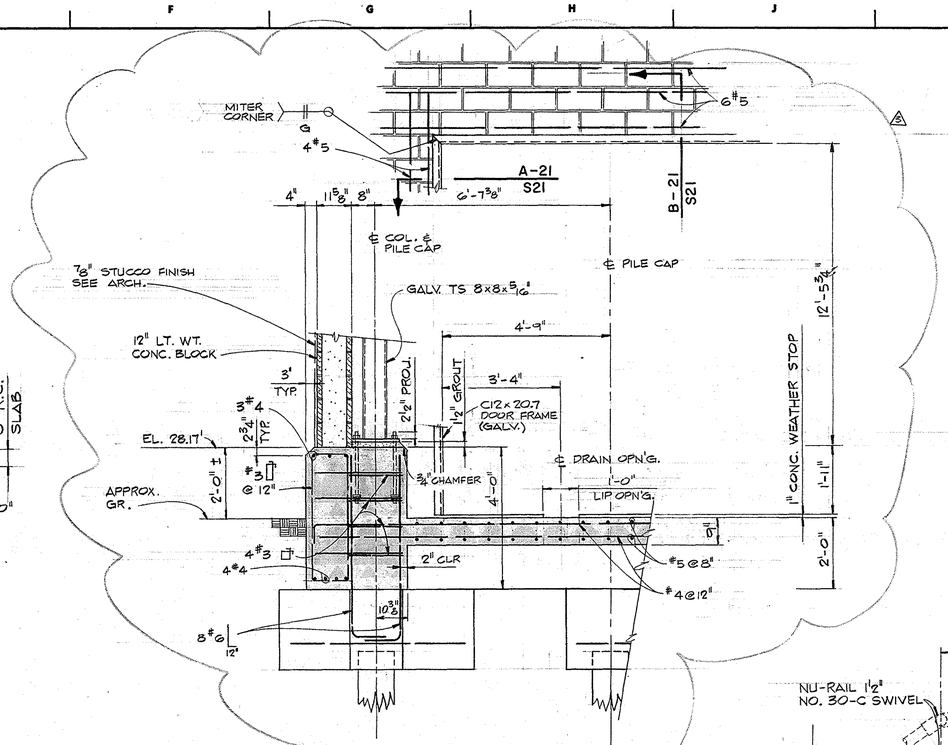
BRUNING 40-22 56957

AF 12739



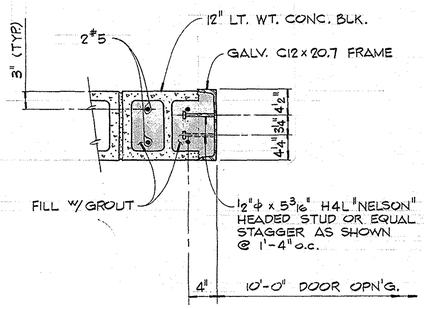
SECTION 7-19

½" = 1'-0"



SECTION 8-19

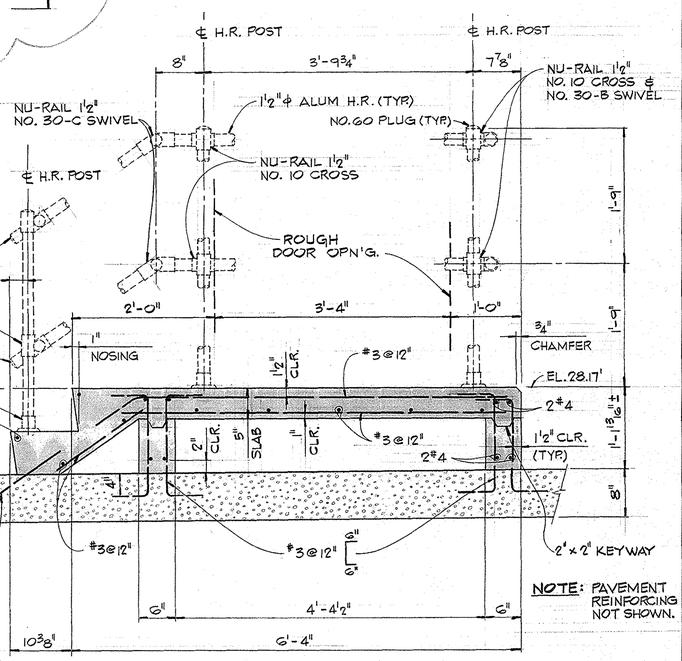
½" = 1'-0"



DETAIL A-21

1" = 1'-0"

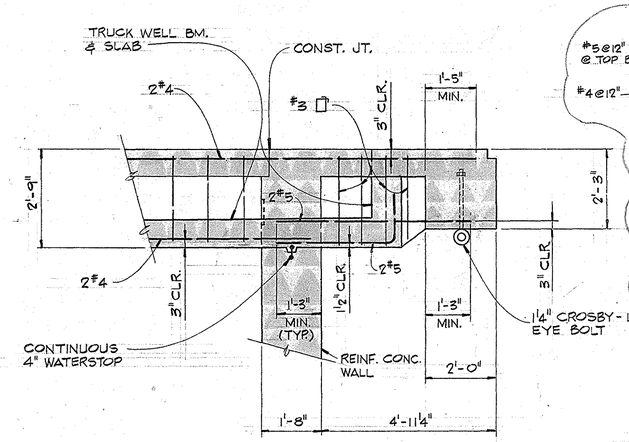
NOTE: OUTSIDE H.R. SHOWN FOR LOCATION



SECTION 11-19

1" = 1'-0"

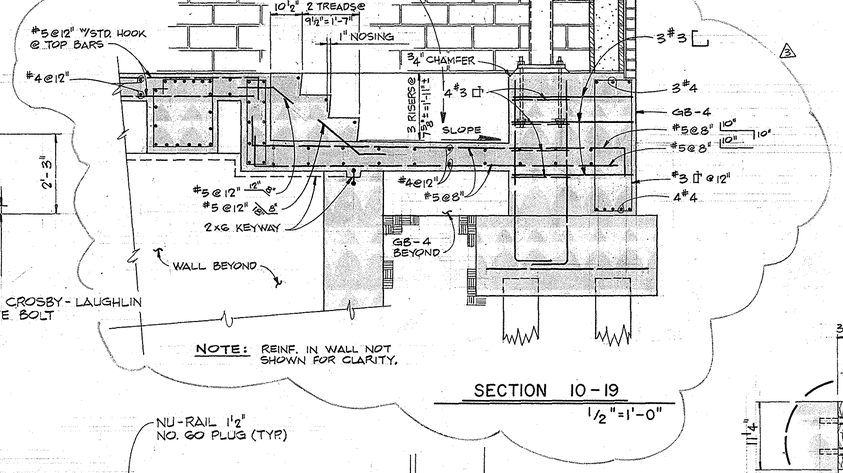
NOTE: PAVEMENT REINFORCING NOT SHOWN.



SECTION 9-19

½" = 1'-0"

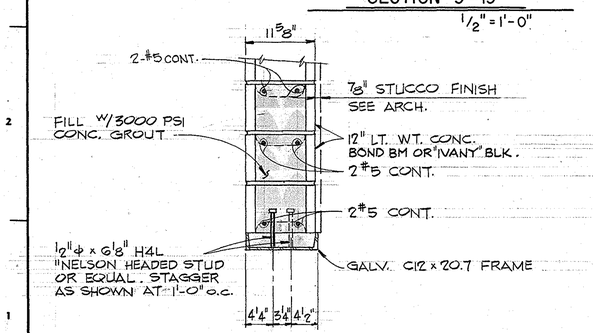
NOTE: REINF. IN WALL, SLAB & FB-1 NOT SHOWN FOR CLARITY.



NOTE: REINF. IN WALL NOT SHOWN FOR CLARITY.

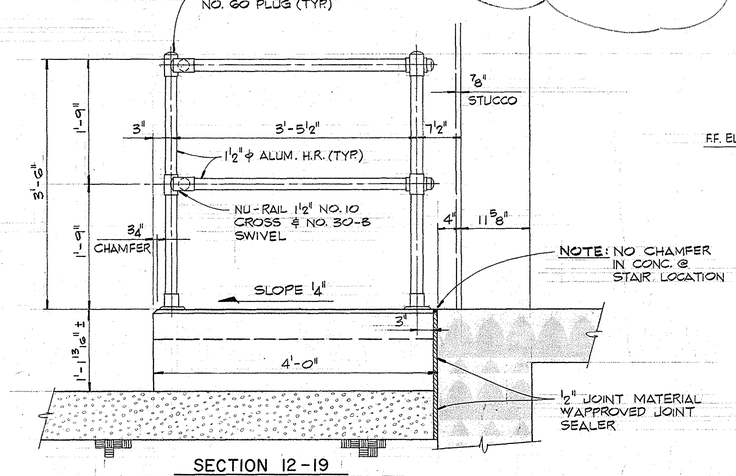
SECTION 10-19

½" = 1'-0"



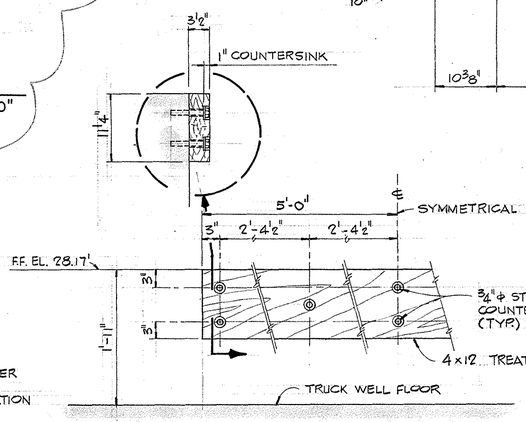
DETAIL B-21

1" = 1'-0"



SECTION 12-19

1" = 1'-0"



TIMBER STOP LOG DETAIL

1" = 1'-0"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	REVISED SECTIONS 8, 9, 10 & 11	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION SECTIONS & DETAILS

STATE OF LOUISIANA — MEINRAD F. LANG, REG. No. 4318, REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

Meinrad F. Lang

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

J. Joseph Sullivan — GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

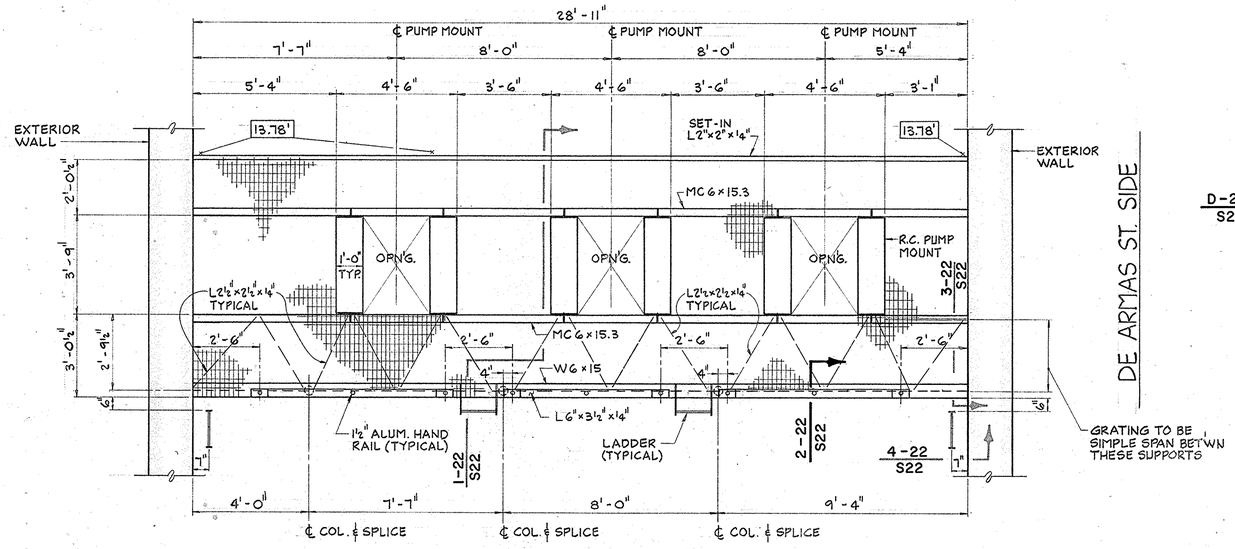
SET NO. — SHEET NO. S 21

BRUNING 40-22 56957

AF 12739

NOTE: ALL STRUCTURAL MEMBERS TO BE HOT-DIPPED GALVANIZED.

GRATING: GALV. 1¾" x ¼" BAR GRATING "KERRIGAN" KHB-175 OR APPROVED EQUAL

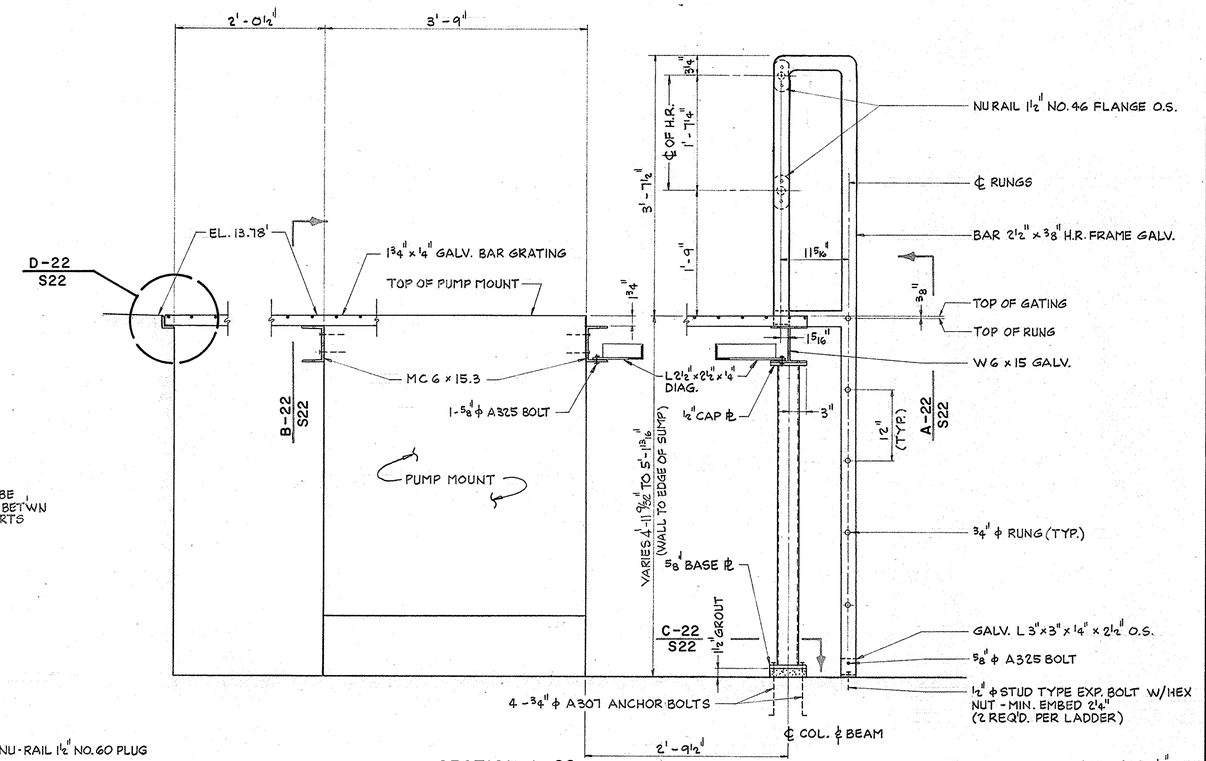


DE ARMAS ST. SIDE

NOTE: ALUM. PIPE H.R. TO BE 6061-T6 TYPE ALLOY W/MIN. ULT. TEN. STRENGTH F_{tu} = 42 ksi

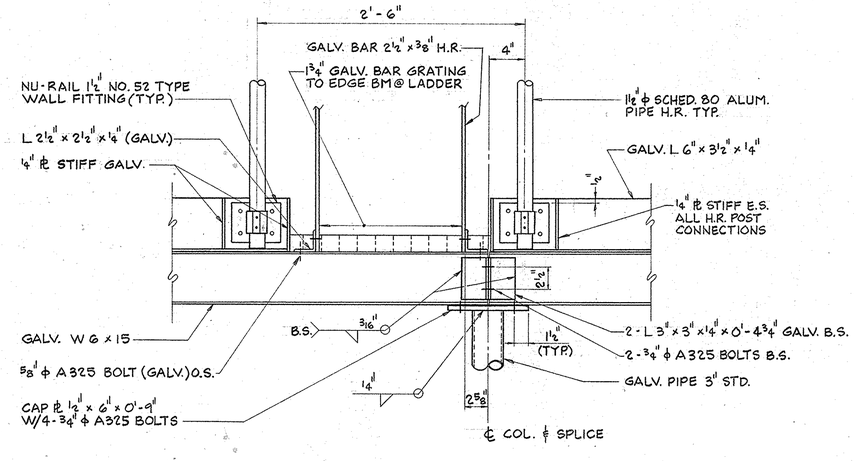
PUMP FLOOR GRATING - FRAMING PLAN

3/8" = 1'-0"



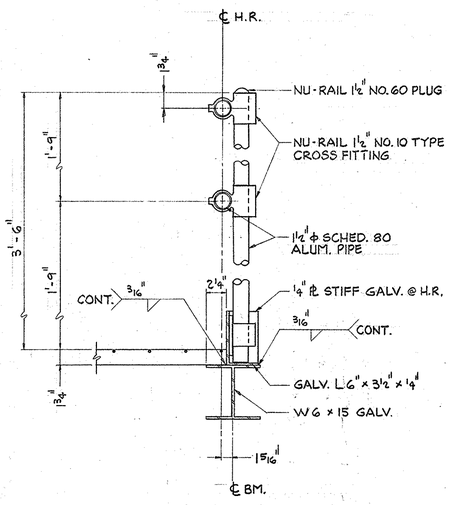
SECTION 1-22

1" = 1'-0"



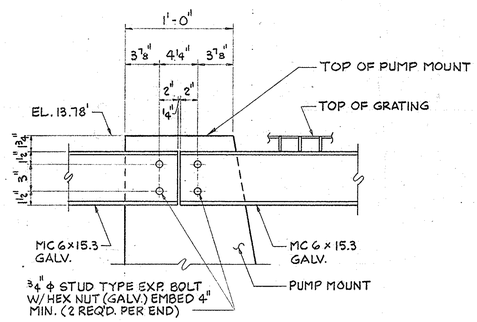
DETAIL A-22

1½" = 1'-0"



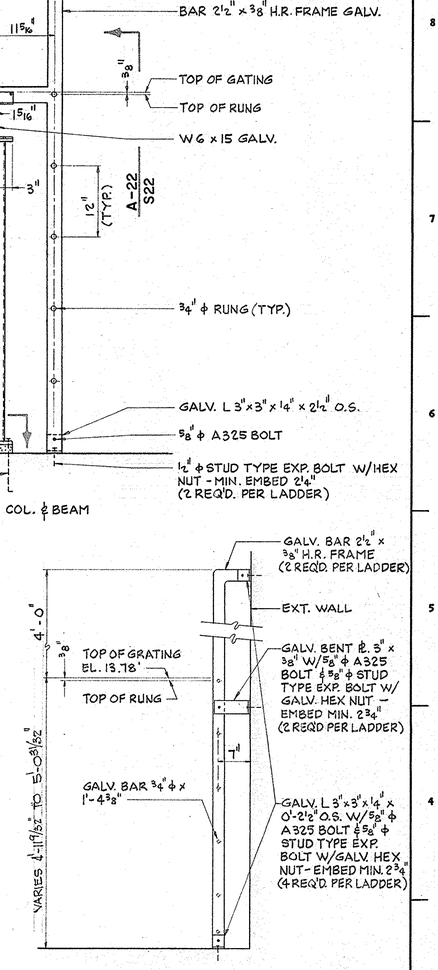
SECTION 2-22

1½" = 1'-0"



DETAIL B-22

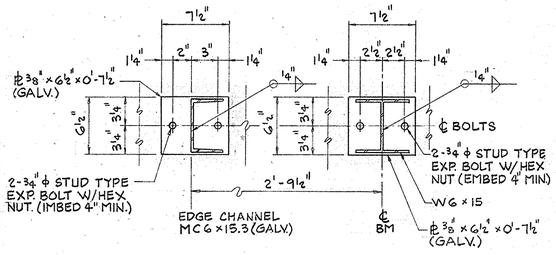
1½" = 1'-0"



SECTION 4-22

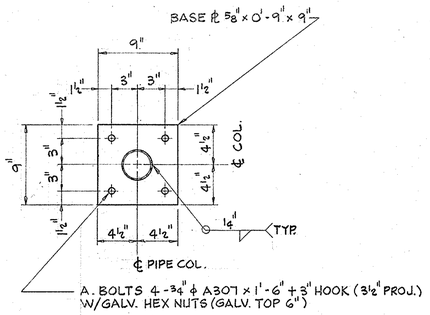
SECTION 10-23 (SIMILAR) ¾" = 1'-0"

CONTR. NOTE: SPACE WALL REINF. THIS AREA TO MISS EXP. ANCHORS



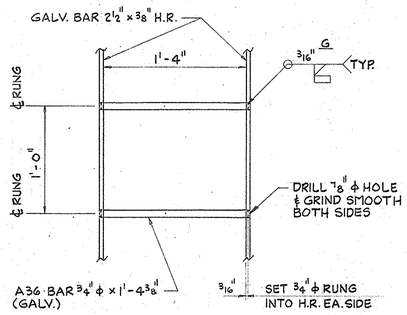
SECTION 3-22

SECTION 8-23 (SIMILAR AT W6x15) 1½" = 1'-0"



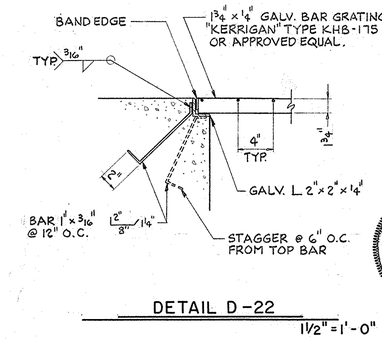
DETAIL C-22

1½" = 1'-0"



LADDER DETAIL

1½" = 1'-0"



DETAIL D-22

1½" = 1'-0"

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
AND
CIVIL ENGINEERING
Meinrad F. Lang

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION
PUMP ACCESS FLOOR FRAMING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

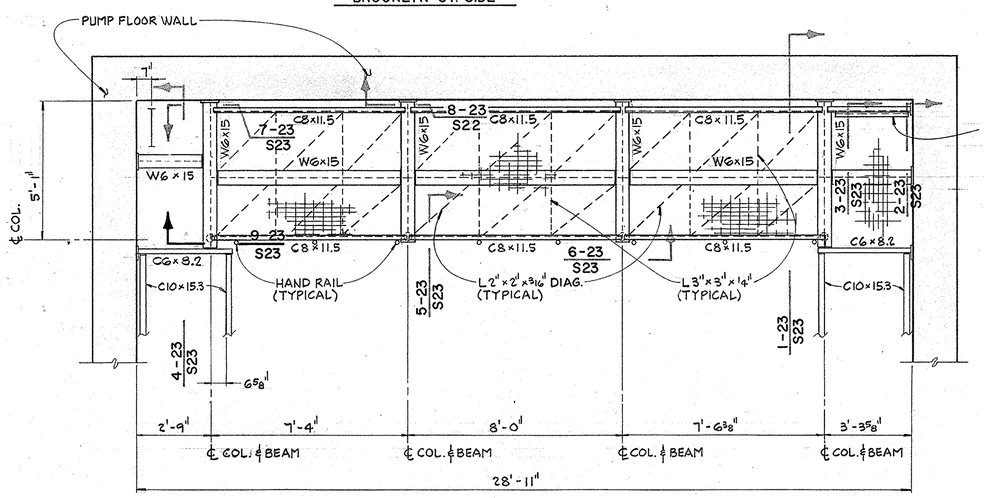
DR. F.T.E.	
TRC.	
CK. ARC	
AP.	
SCALE AS NOTED	DWG. No. 11540-W-20
DATE OCT. 16, 84	SET NO. / SHEET NO. S 22

GENERAL SUPERINTENDENT

BRUNING 40-22 56957

AF 12739

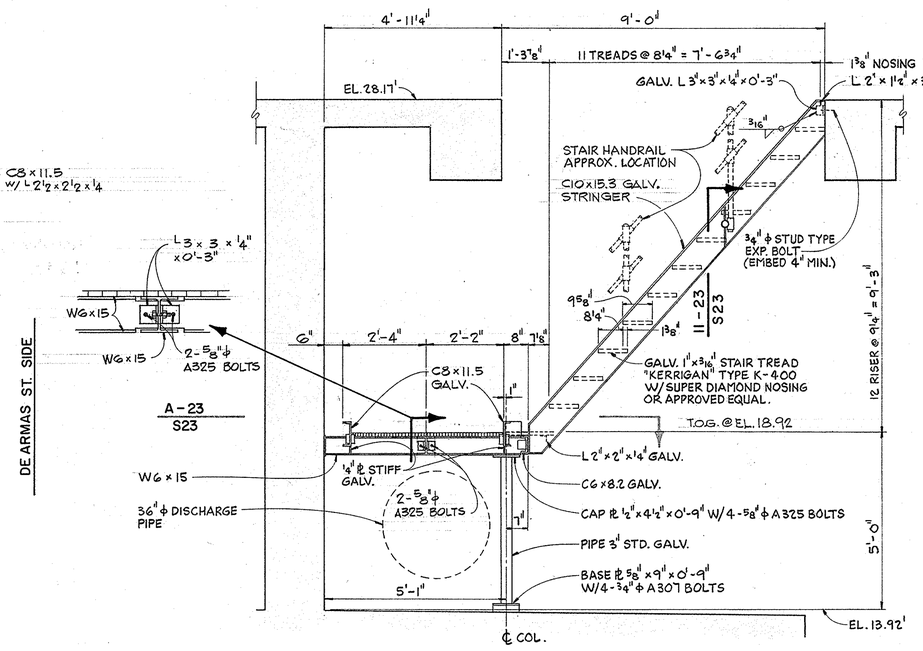
NOTE: ALL STRUCTURAL STEEL ITEMS TO BE HOT DIPPED GALVANIZED



NOTE: ALUM. PIPE H.R. TO BE 6061-T6 TYPE ALLOY W/MIN. ULT. TEN. STRENGTH Ftu = 42 ksi

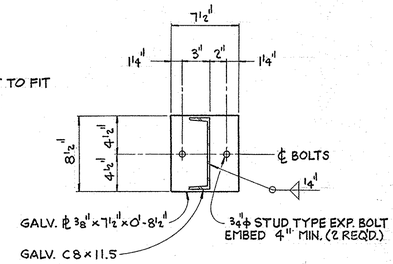
PUMP FLOOR WALKWAY — FRAMING PLAN

3/8" = 1'-0"



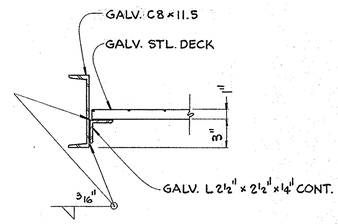
SECTION 1-23

1/2" = 1'-0"



SECTION 2-23

1 1/2" = 1'-0"



SECTION 3-23

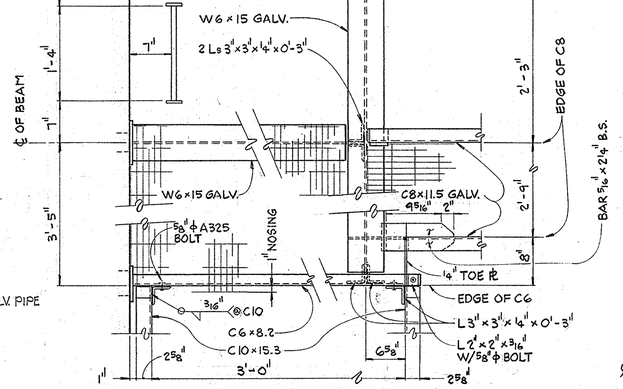
1 1/2" = 1'-0"

DETAIL A-23

1" = 1'-0"

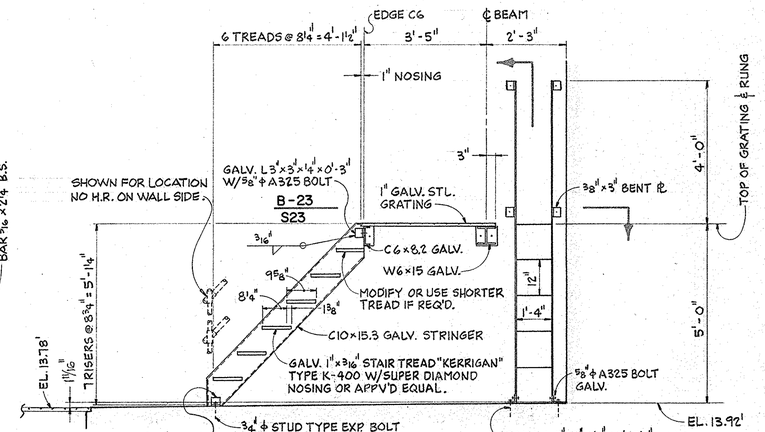
SECTION 11-23

1 1/2" = 1'-0"



DETAIL B-23

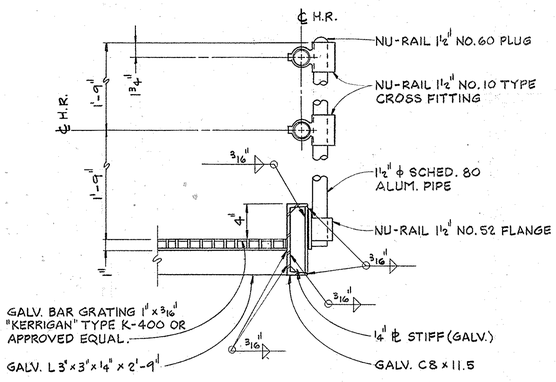
1" = 1'-0"



SECTION 4-23

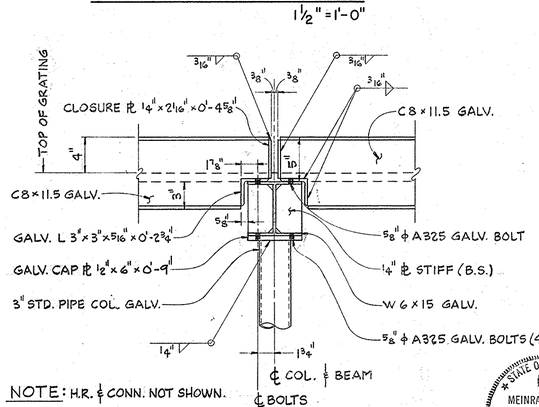
1/2" = 1'-0"

10-23 S22



SECTION 5-23

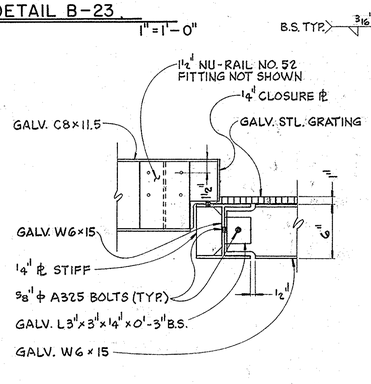
1 1/2" = 1'-0"



NOTE: H.R. & CONN. NOT SHOWN.

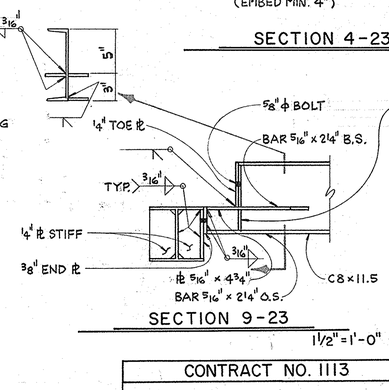
SECTION 6-23

1 1/2" = 1'-0"



SECTION 7-23

1 1/2" = 1'-0"



SECTION 9-23

1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION WALKWAY & STAIR FRAMING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. F.T.E.
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

J. Joseph Guillaume
GENERAL SUPERINTENDENT

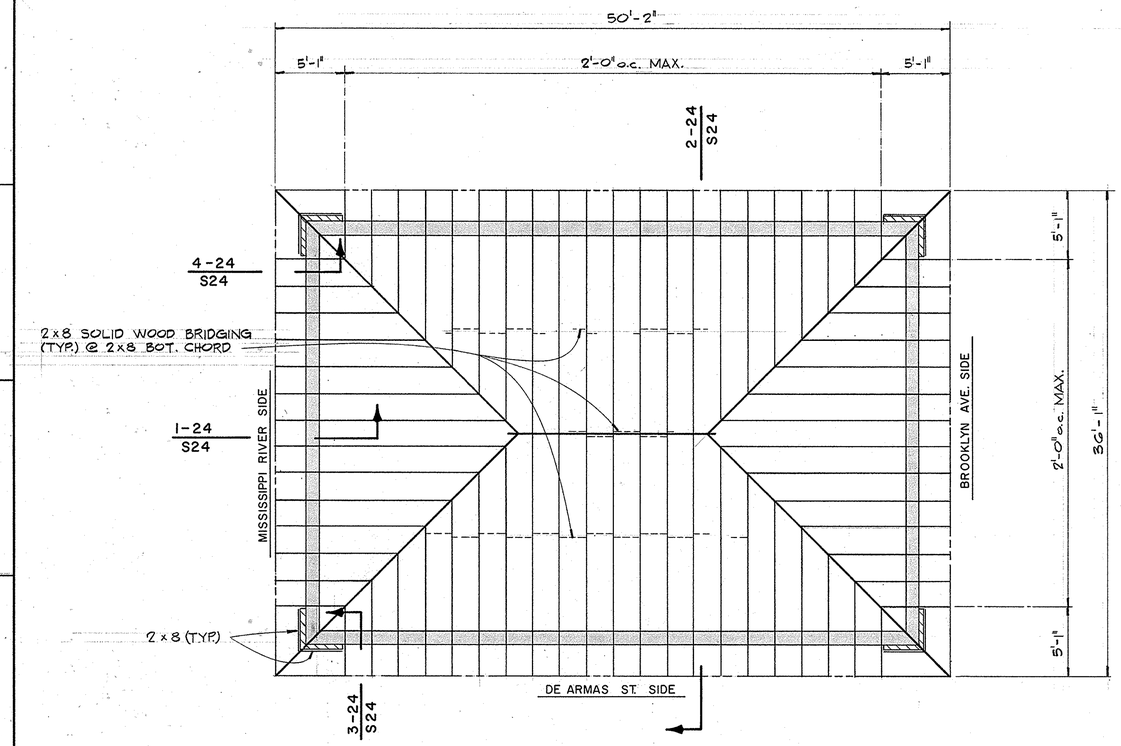
DWG. No. 11540-W-20
SET NO.
SHEET NO. S 23

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Meinrad F. Lang

BRUNING 40-22 56957

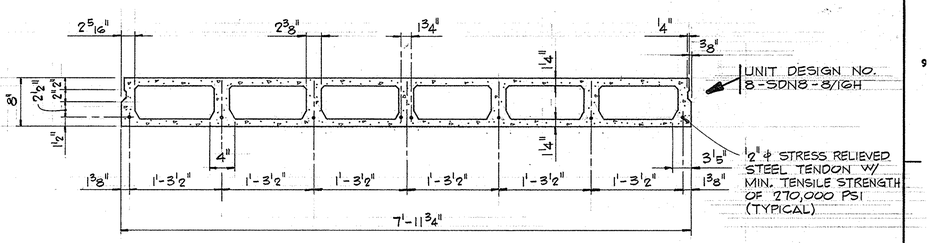
AF 12739



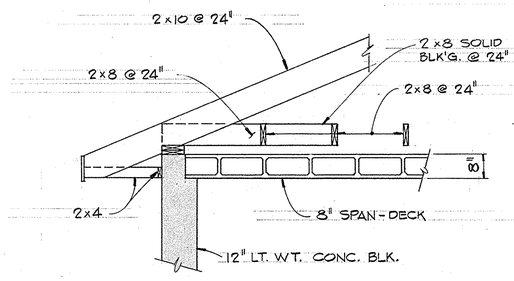
ROOF FRAMING PLAN

3/16" = 1'-0"

NOTE: ALL JOINTS TO BE GROUTED SOLID W/4000 PSI NON-SHRINK GROUT



NOTE: CONCRETE TO BE NORMAL WGT. W/A MIN. COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.

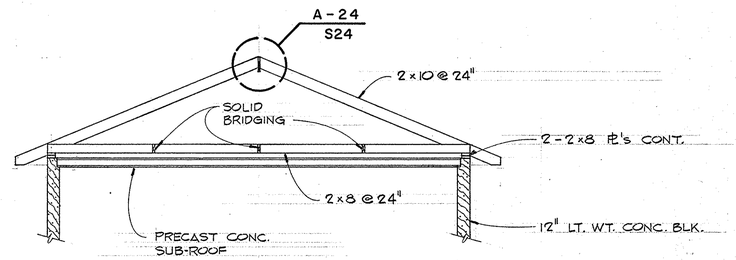


SECTION 1-24

1/2" = 1'-0"

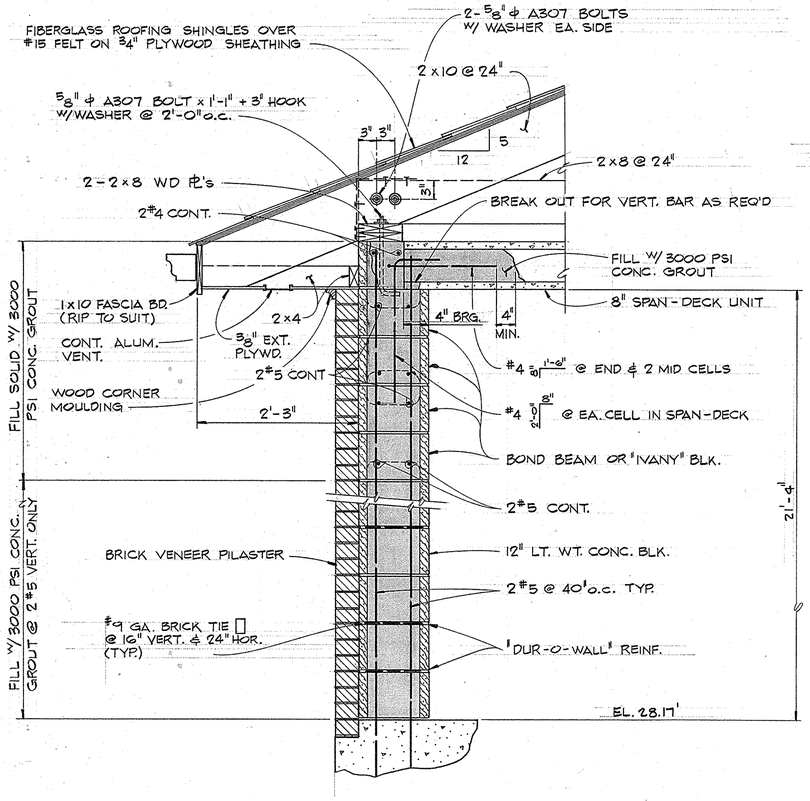
PRECAST CONCRETE SUB-ROOF DETAIL

("SPAN-DECK" — PRECAST, PRESTRESSED CONC. HOLLOW CORE SLAB) 1" = 1'-0"



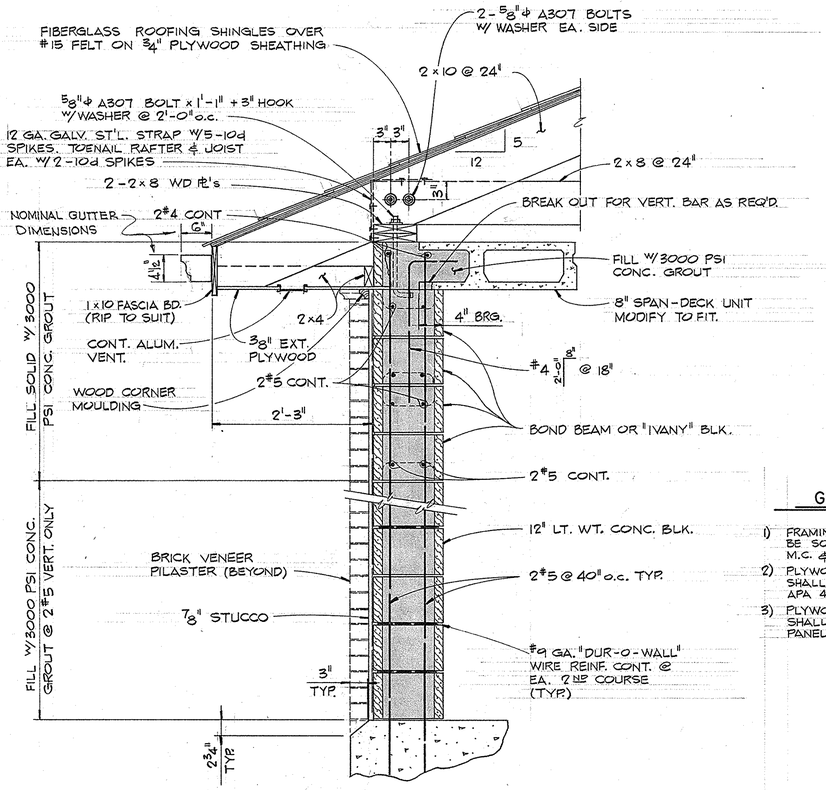
SECTION 2-24

3/16" = 1'-0"



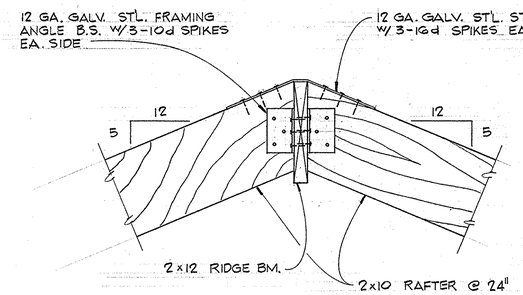
SECTION 3-24

1" = 1'-0"



SECTION 4-24

1" = 1'-0"



DETAIL A-24

1 1/2" = 1'-0"

GENERAL NOTES

1) FRAMING LUMBER USED IN THE WORK SHALL BE SOUTHERN YELLOW PINE NO.1 KD W/15% MAX. M.C. & MIN. MOD. OF ELASTICITY E = 1,900,000 PSI
2) PLYWOOD ROOF SHEATHING USED IN THE WORK SHALL BE ENGINEERED GRADE C-C STRUCTURAL I, EXT. APA 42/20 W/ 3/4" MIN. THICKNESS.
3) PLYWOOD EDGES PERPENDICULAR TO RAFTERS SHALL BE SUPPORTED W/A MIN. OF ONE METAL PANEL CLIP PER RAFTER SPACING

REV.	DATE	DESCRIPTION	BY

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION ROOF FRAMING & WALL DETAILS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 81

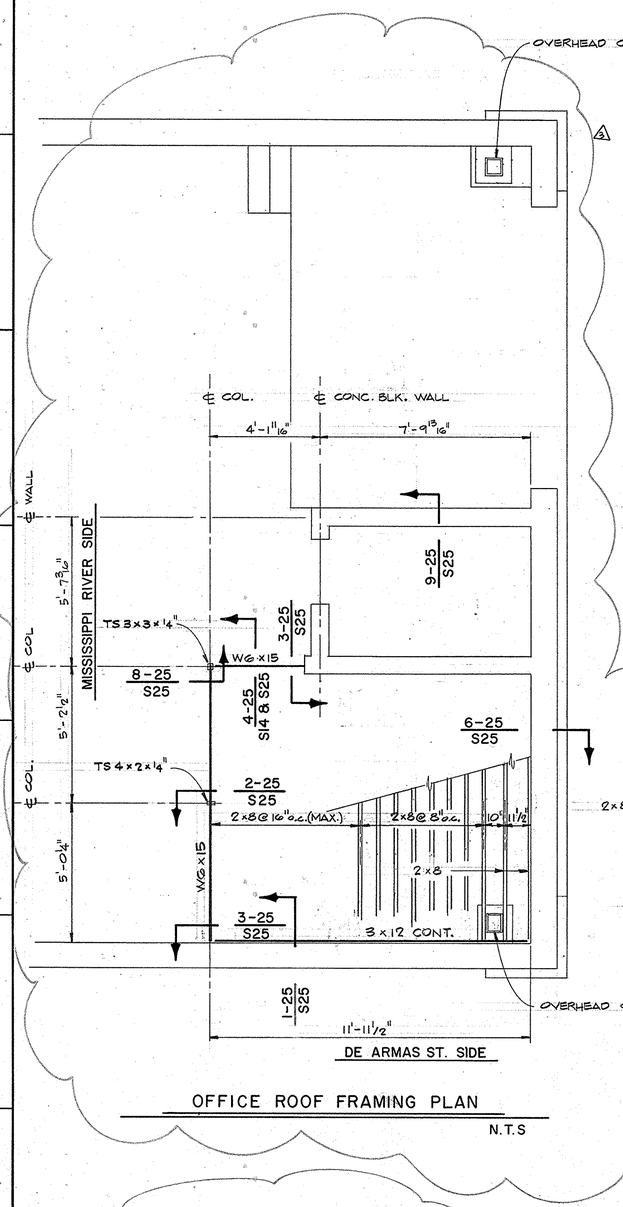
J. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 24

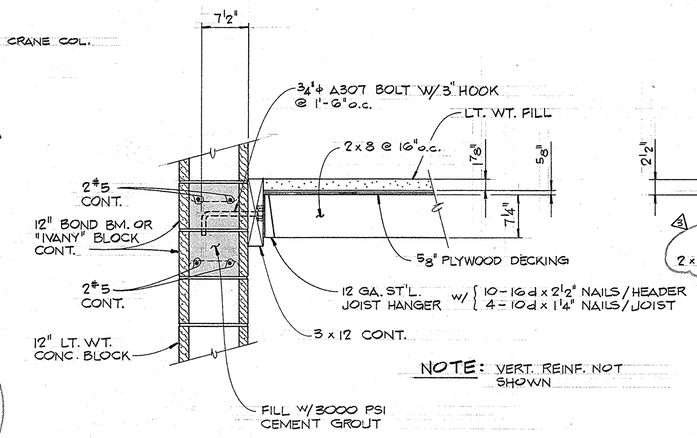
BRUNING 40-22 56957

AF 12739



OFFICE ROOF FRAMING PLAN

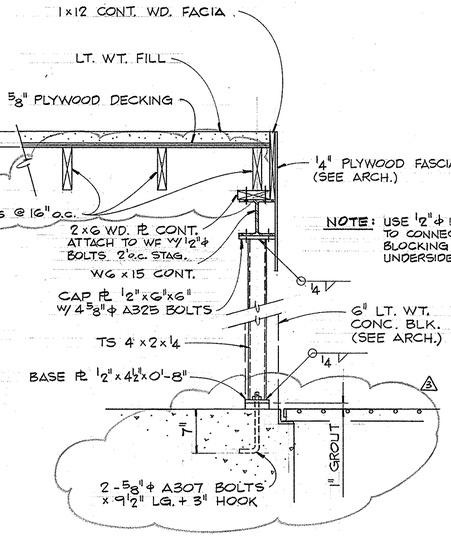
N.T.S



NOTE: VERT. REINF. NOT SHOWN

SECTION 1-25

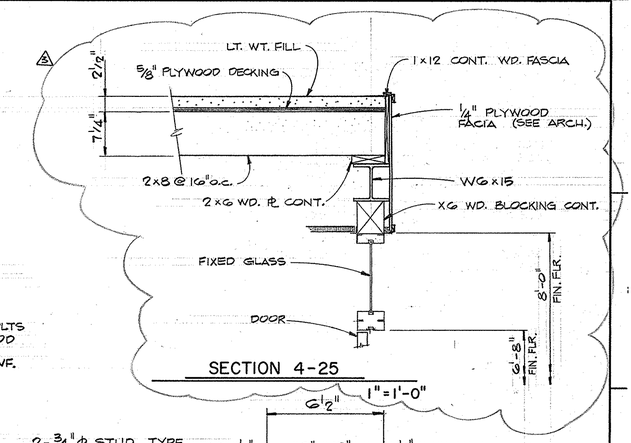
1" = 1'-0"



NOTE: USE 1/2"ϕ LAG BOLTS TO CONNECT WOOD BLOCKING TO UNDERSIDE OF WF.

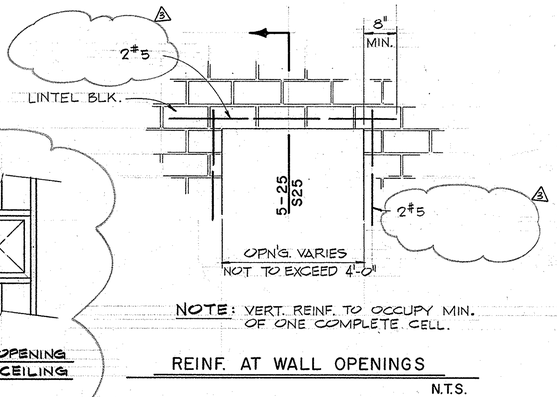
SECTION 2-25

1" = 1'-0"



SECTION 4-25

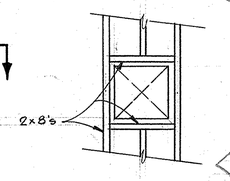
1" = 1'-0"



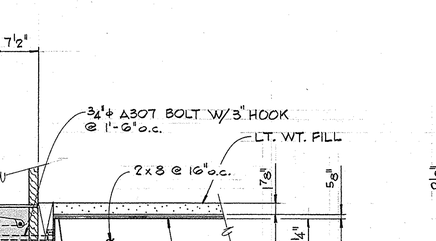
NOTE: VERT. REINF. TO OCCUPY MIN. OF ONE COMPLETE CELL.

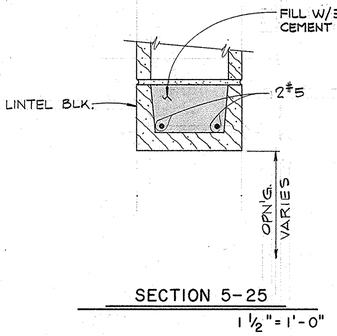
REINF. AT WALL OPENINGS

N.T.S.



TYPICAL OPENING IN OFFICE CEILING

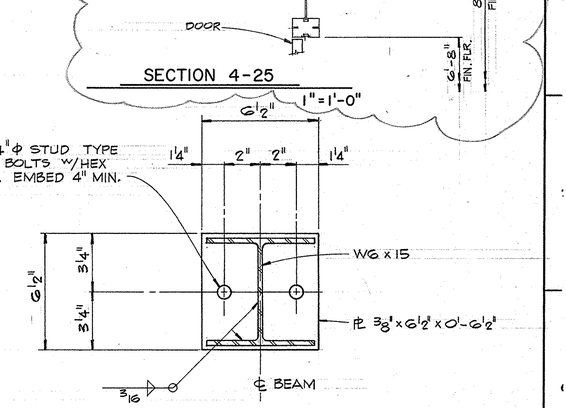




SECTION 5-25

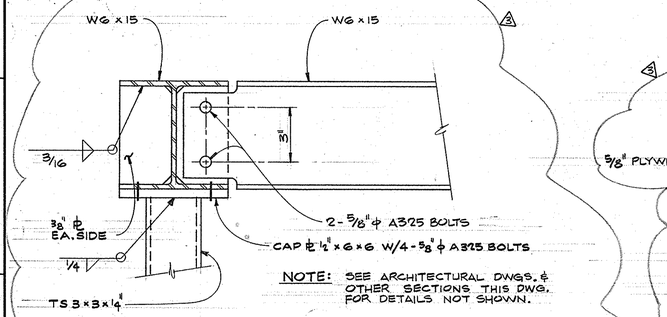
1 1/2" = 1'-0"

NOTE: FILL MASONRY WALL @ BM. CONN. & ONE CELL EA. SIDE W/3000 PSI CONC. GROUT TO FIN. SLAB



SECTION 3-25

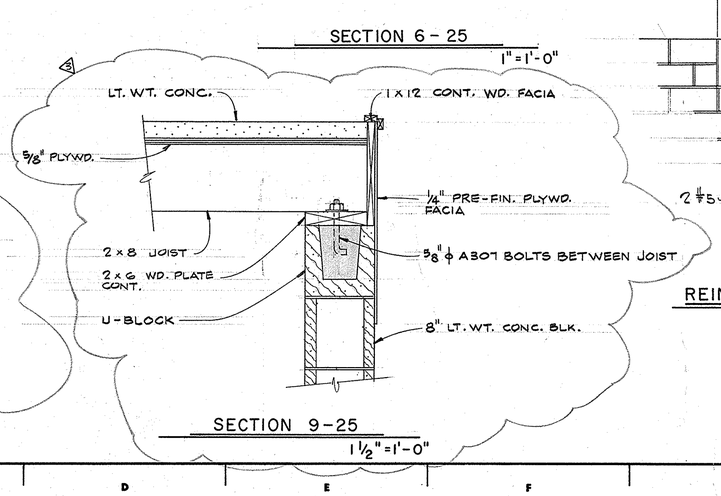
3" = 1'-0"



NOTE: SEE ARCHITECTURAL DWGS. & OTHER SECTIONS THIS DWG. FOR DETAILS NOT SHOWN.

SECTION 8-25

3" = 1'-0"

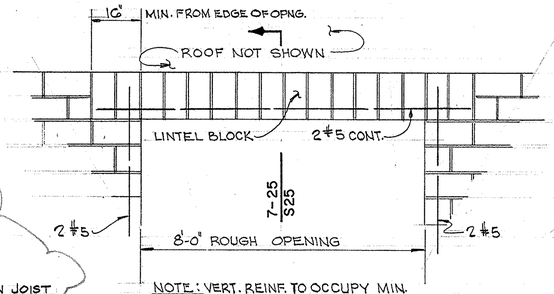


SECTION 9-25

1 1/2" = 1'-0"

SECTION 6-25

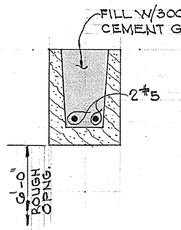
1" = 1'-0"



NOTE: VERT. REINF. TO OCCUPY MIN. OF ONE COMPLETE CELL.

REINFORCING AT LOUVER OPENING

N.T.S.



SECTION 7-25

1" = 1'-0"

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING

REV.	DATE	DESCRIPTION	BY
3	7/5/85	RELOCATED OFFICE, TRUCK WELL & MISC. DETAILS	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION OFFICE FRAMING & MISC. DETAILS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	VPM
TRC.	
CK.	ARC
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

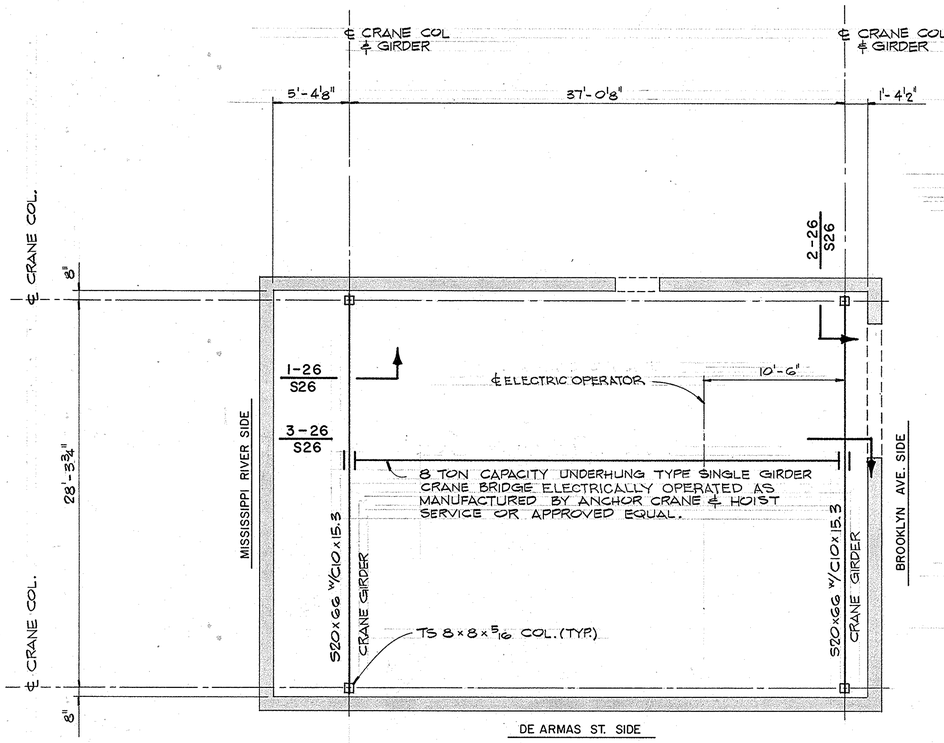
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 25

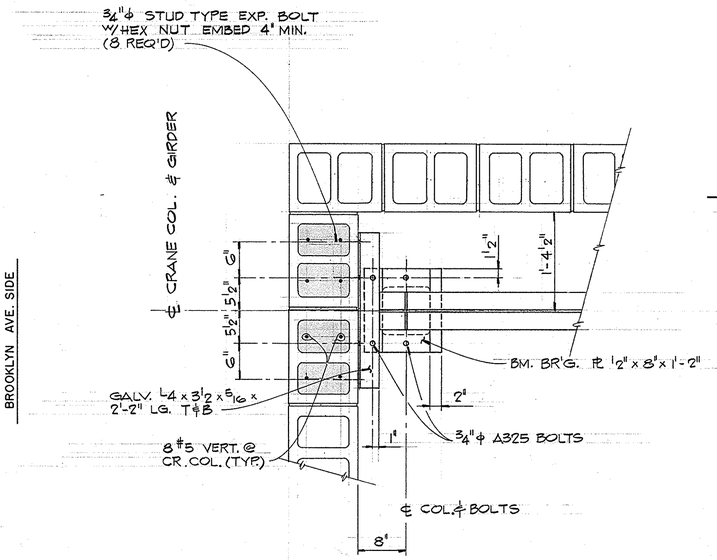
BRUNING 40-22 56957

AF 12739



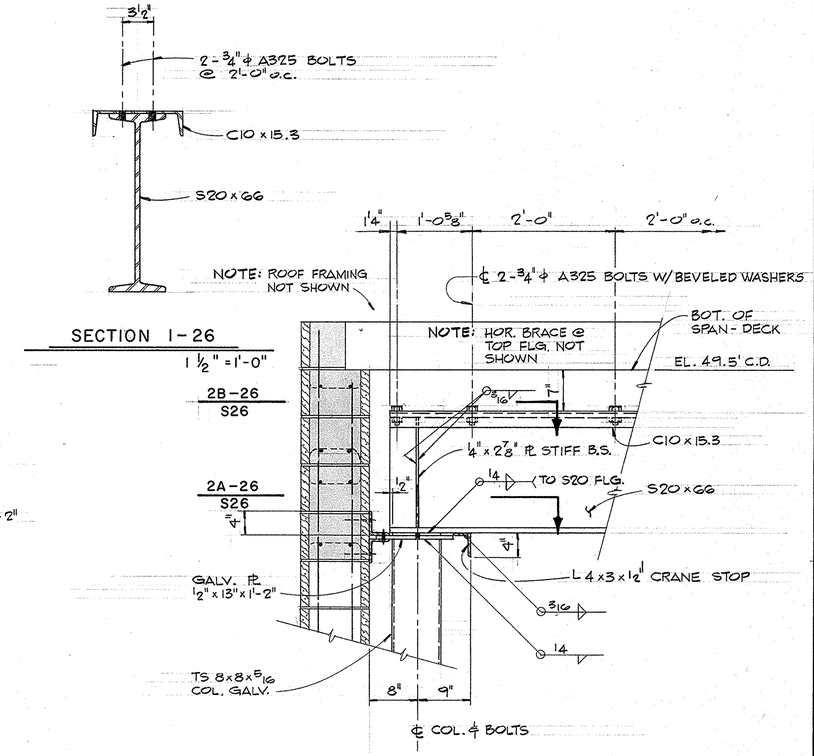
OVERHEAD CRANE FRAMING PLAN

3/4" = 1'-0"



SECTION 2A-26

1" = 1'-0"

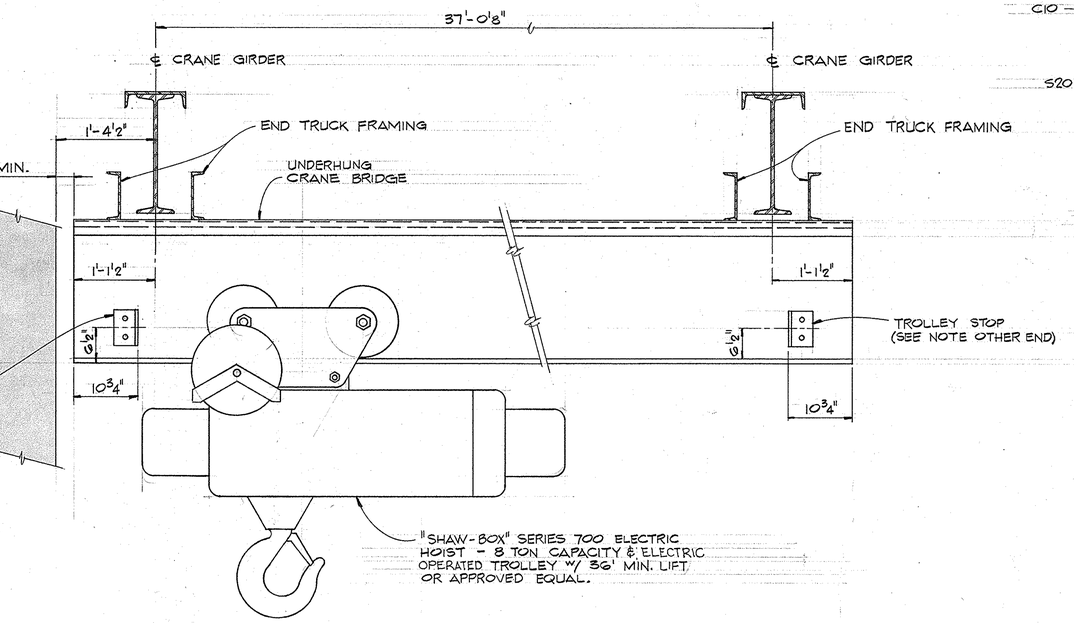


SECTION 1-26

1 1/2" = 1'-0"

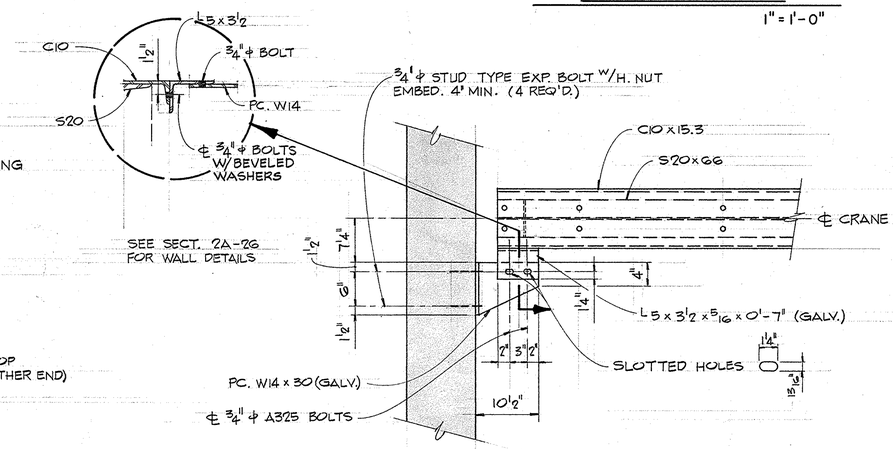
SECTION 2-26

1" = 1'-0"



SECTION 3-26

1" = 1'-0"



SECTION 2B-26

1" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMPING STATION OVERHEAD CRANE DETAILS

STATE OF LOUISIANA
MEINRAD F. LANG
REG. No. 4318
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

Meinrad F. Lang

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. ARC
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

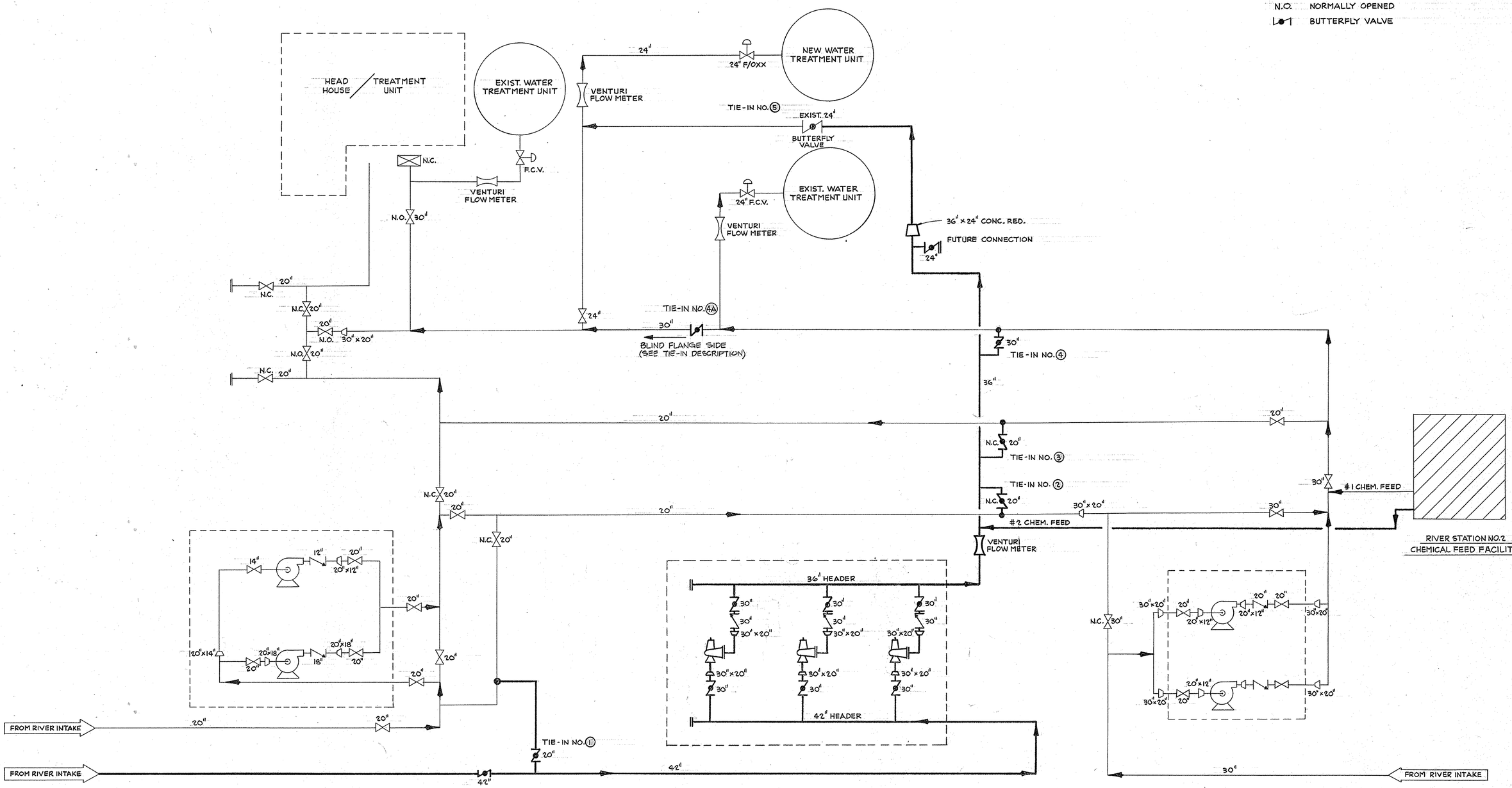
SET NO.
SHEET NO. S 26

BRUNING 40-22 56957

AF 12739

LEGEND

- EXIST. VALVING AND FLOW CAPABILITIES.
- NEW VALVING AND FLOW CAPABILITIES.
- N.C. NORMALLY CLOSED
- N.O. NORMALLY OPENED
- BUTTERFLY VALVE



ALGIERS RIVER PUMPING STATION NO. 1

NEW ALGIERS RIVER PUMPING STATION NO. 1
30 M.G.D. FIRM CAPACITY
45 M.G.D. TOTAL CAPACITY

ALGIERS RIVER PUMPING STATION NO. 2
5 M.G.D. FIRM CAPACITY
10 M.G.D. TOTAL CAPACITY

NOTE: BEFORE ANY TIE-IN WORK IS PERFORMED ON THE EXIST. RAW WATER LINES, CONTRACTOR SHALL INFORM S&WB OPERATIONS IN WRITING AT LEAST 2 WEEKS IN ADVANCE.

TIE-IN DESCRIPTION

TIE-IN NO. 1 - SHALL BE ACCOMPLISHED WITHIN 18 CONSECUTIVE HOURS. EXIST. RIVER PUMPING STATION NO. 1 IS REQUIRED TO BE OUT OF SERVICE WHILE MAKING TIE-IN. CONTACT OPERATIONS FOR APPROPRIATE VALVE CLOSINGS. SEE SHEET NO. S33 FOR TIE-IN DETAILS.

TIE-IN NO. 2 - SHALL BE ACCOMPLISHED WITHIN 36 CONSECUTIVE HOURS. NO EXIST. PUMPING STATION MUST BE OUT OF SERVICE WHILE MAKING TIE-IN. CONTACT OPERATIONS FOR APPROPRIATE VALVE CLOSINGS. SEE SHEET S33 FOR TIE-IN DETAILS.

TIE-IN NO. 3 - SHALL BE ACCOMPLISHED WITHIN 48 CONSECUTIVE HOURS. NO EXIST. PUMPING STATION MUST BE OUT OF SERVICE WHILE MAKING TIE-IN. CONTACT OPERATIONS FOR APPROPRIATE VALVE CLOSINGS. SEE SHEET NO. S33 FOR TIE-IN DETAILS.

TIE-IN NO. 4 & 4A - PHASE I - ONE STATION AND ONE TREATMENT UNIT MUST BE IN SERVICE. THIS PHASE SHALL TAKE NO LONGER THAN 6 CONSECUTIVE HOURS; CUT 30" ϕ LINE AT BOTH TIE-IN 4 & 4A. INSTALL BLIND FLANGE AT TIE-IN 4A. THE REMAINING STATION SHALL THEN BE PLACED BACK IN SERVICE.

PHASE II - BOTH STATIONS MUST BE OPERABLE. THIS PHASE SHALL TAKE NO LONGER THAN 12 CONSECUTIVE HOURS AND SHALL START WITH THE COMPLETION OF PHASE I. INSTALL SECOND FLANGE AT TIE-IN 4A. COMPLETE TIE-IN 4.

PHASE III - ONE STATION AND ONE TREATMENT UNIT MUST BE IN SERVICE. THIS PHASE SHALL TAKE NO LONGER THAN 6 CONSECUTIVE HOURS AND SHALL START WITH THE COMPLETION OF PHASE II. REMOVE BLIND FLANGE AT TIE-IN 4A AND INSTALL VALVE. THE REMAINING STATION SHALL THEN BE PLACED BACK IN SERVICE.

TIE-IN NO. 5 - SHALL BE ACCOMPLISHED WITHIN 24 CONSECUTIVE HOURS. NO EXIST. PUMPING STATION MUST BE OUT OF SERVICE WHILE MAKING TIE-IN. CONTACT OPERATIONS FOR APPROPRIATE VALVE CLOSINGS. SEE SHEET S33 FOR TIE-IN DETAILS.

NOTE: ALL PHASES UNDER TIE-IN NO. 4 & 4A SHALL BE DONE CONSECUTIVELY. TIE-IN NOS. ARE FOR REFERENCING ONLY AND DOES NOT ESTABLISH A SEQUENCE.

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

REV.	DATE	DESCRIPTION	BY
1	11/26/84	REVISED TIE-IN DESCRIPTION	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VALVING & FLOW DIAGRAM

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR.	FTE
TRC.	
CK.	NRP
AP.	
SCALE	NONE
DATE	OCT. 16, 84

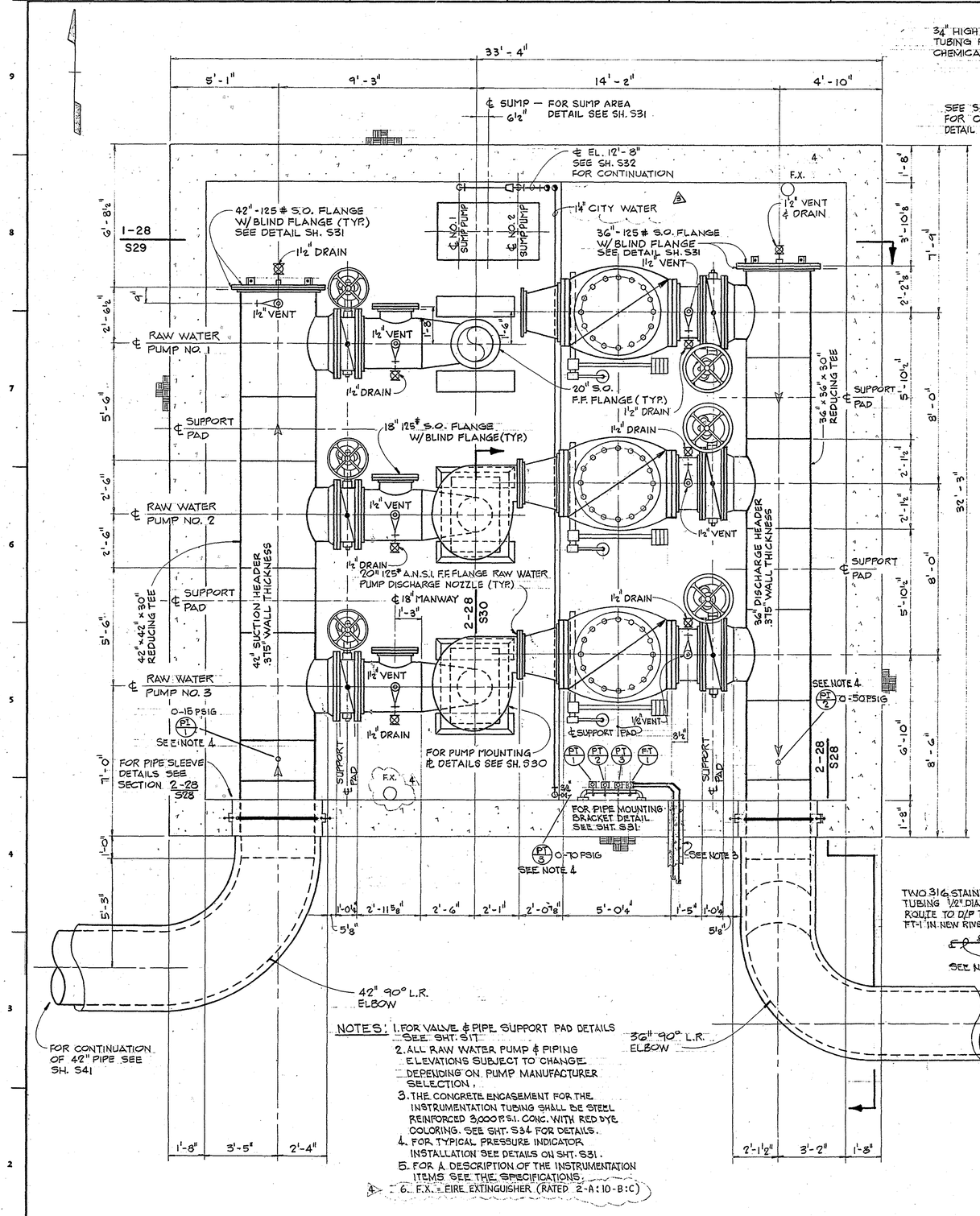
S. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 27

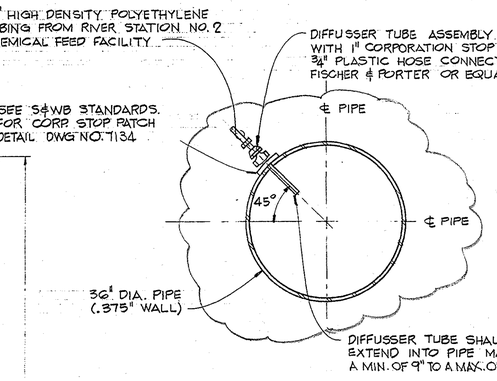
BRUNING 40-22 56957

AF 12739



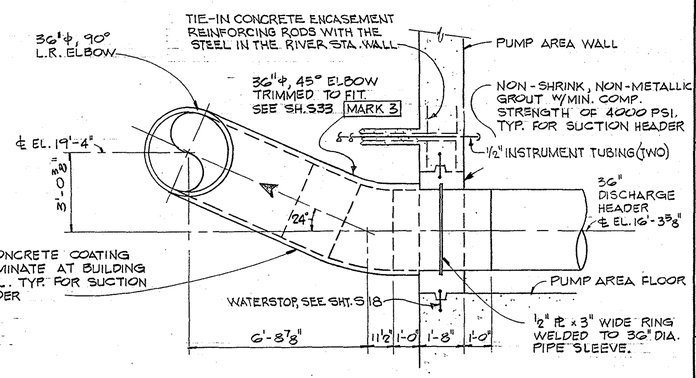
NOTES:
1. FOR VALVE & PIPE SUPPORT PAD DETAILS SEE SHT. S11.
2. ALL RAW WATER PUMP & PIPING ELEVATIONS SUBJECT TO CHANGE DEPENDING ON PUMP MANUFACTURER SELECTION.
3. THE CONCRETE ENCASEMENT FOR THE INSTRUMENTATION TUBING SHALL BE STEEL REINFORCED 3,000 P.S.I. CONC. WITH RED DYE COLORING. SEE SHT. S34 FOR DETAILS.
4. FOR TYPICAL PRESSURE INDICATOR INSTALLATION SEE DETAILS ON SHT. S31.
5. FOR A DESCRIPTION OF THE INSTRUMENTATION ITEMS SEE THE SPECIFICATIONS.
6. F.X. = FIRE EXTINGUISHER (RATED 2-A:10-B:C)

PLAN — STATION AND DISCHARGE PIPING
3/8" = 1'-0"

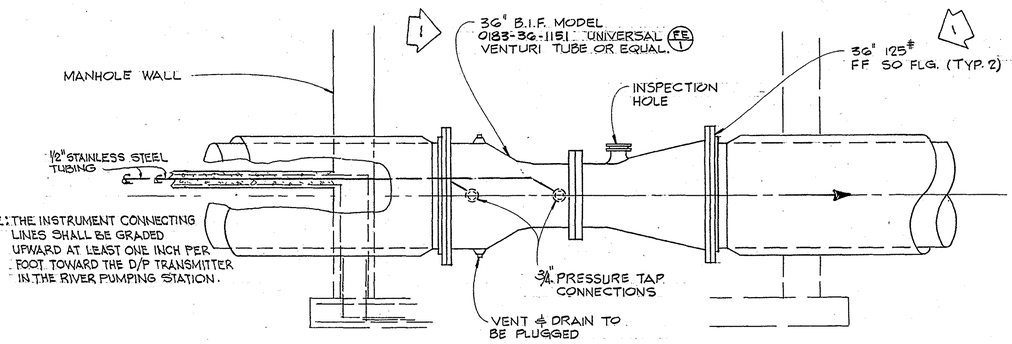


CHEMICAL INJECTION DETAIL
(TYPICAL FOR THREE) 3/4" = 1'-0"

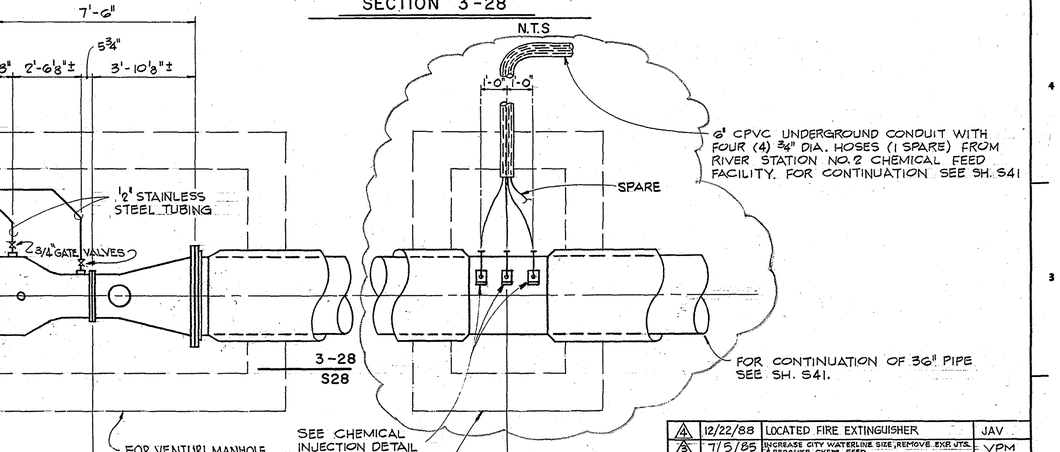
NOTE: 36" PIPE WALL SLEEVE DETAILS SHOWN ARE SIMILAR FOR 42" PIPE WALL PENETRATION ON SUCTION HEADER.



SECTION 2-28
3/8" = 1'-0"



SECTION 3-28



NOTE
AREAS SHOWN CLOUDED ARE INCLUDED IN THE EMERGENCY LETTER BID
DATE: 8-9-01

REV.	DATE	DESCRIPTION	BY
3	12/22/88	LOCATED FIRE EXTINGUISHER	JAV
2	7/5/85	INCREASE CITY WATERLINE SIZE, REMOVE EXP. JTS. & REROUTE CHEM. FEED	VPM
1	11/20/84	CHANGE FLANGE & VENTURI DESIG.	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

STATION PIPING PLAN & DETAILS

STATE OF LOUISIANA — NORMAN R. PRIMA, REG. No. 20049, REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

Norman R. Prima

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

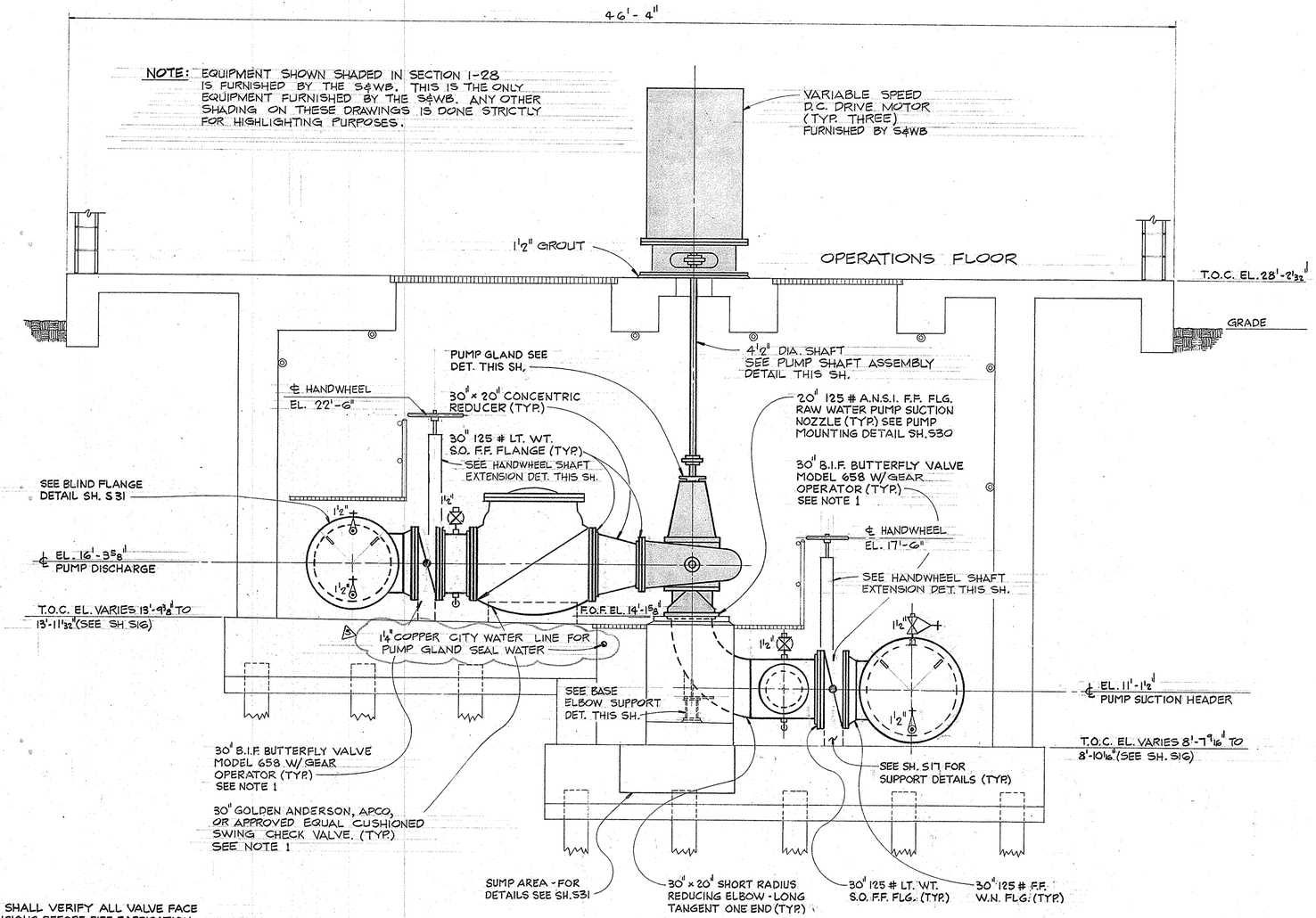
DR. FTE/VPM
TRC.
CK. NRP
AP.
SCALE AS SHOWN
DATE OCT. 16, 84

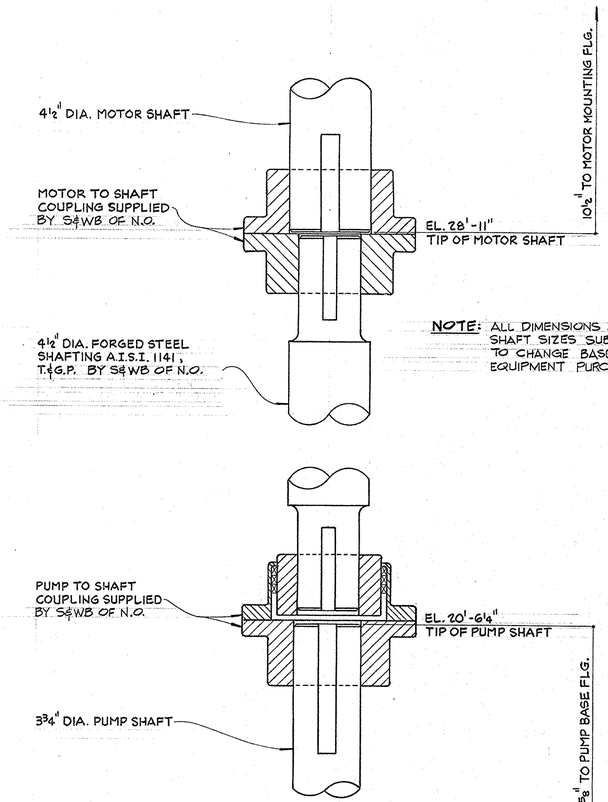
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S28

BRUNING 40-22 56957

AF 12739



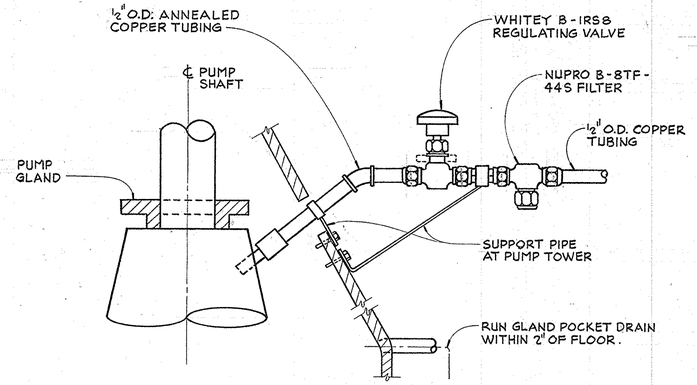


RAW WATER PUMP SHAFT ASSEMBLY

N.T.S.

NOTE:

1. CONTRACTOR SHALL VERIFY ALL VALVE FACE TO FACE DIMENSIONS BEFORE PIPE FABRICATION.
2. ALL SLIP-ON FLG. CONNECTIONS SHALL HAVE A 3/8" SET BACK FROM FACE OF FLANGE.
3. ALL RAW WATER PUMP & PIPING ELEVATIONS SUBJECT TO CHANGE DEPENDING ON PUMP MANUFACTURER SELECTION.

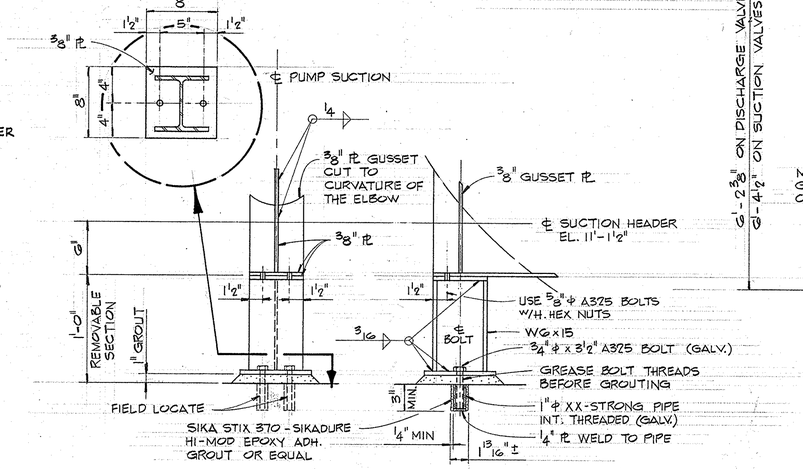


STUFFING BOX DETAIL

(TYPICAL FOR THREE) N.T.S.

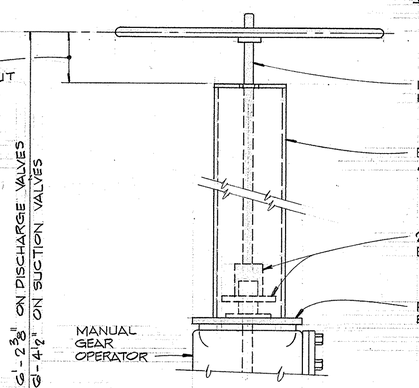
SECTION 1-28

(TYPICAL FOR THREE) 3/8"=1'-0"



BASE ELBOW SUPPORT

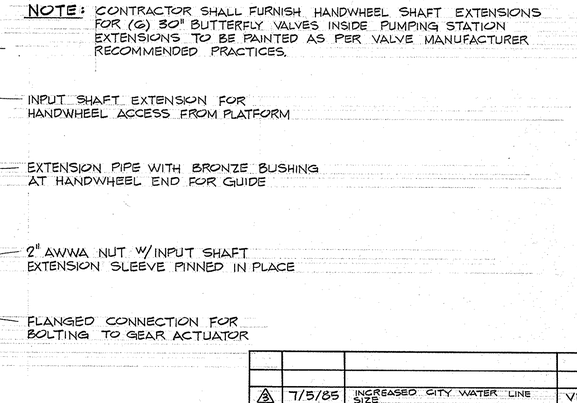
N.T.S.



HANDWHEEL SHAFT EXTENSION

N.T.S.

NOTE: CONTRACTOR SHALL FURNISH HANDWHEEL SHAFT EXTENSIONS FOR (6) 30" BUTTERFLY VALVES INSIDE PUMPING STATION EXTENSIONS TO BE PAINTED AS PER VALVE MANUFACTURER RECOMMENDED PRACTICES.



REV.	DATE	DESCRIPTION	BY
2	7/5/85	INCREASED CITY WATER LINE SIZE	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

STATION PIPING SECTIONS & DETAILS

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

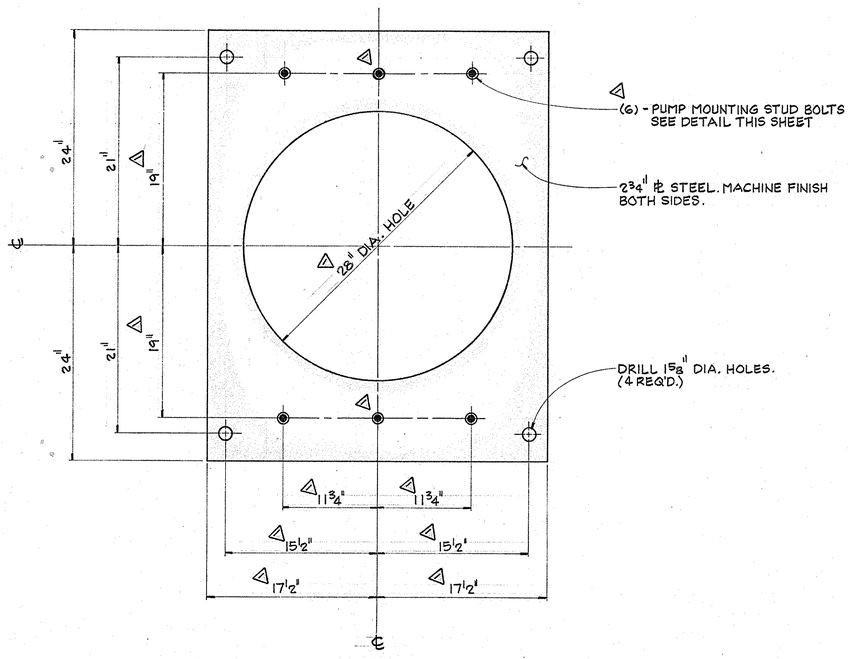
DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S 29

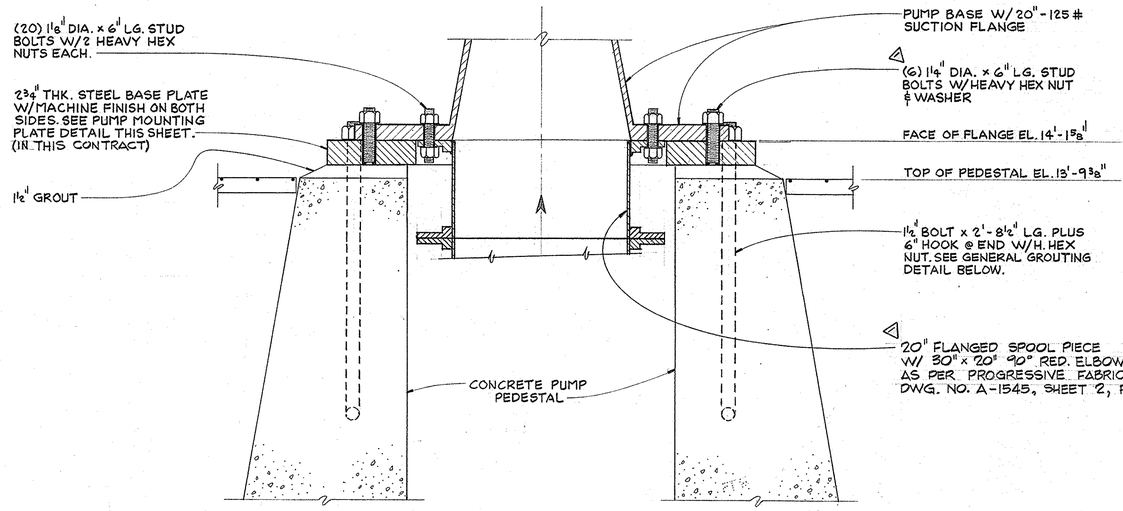
BRUNING-40-22 56957

AF 12739



PUMP MOUNTING PLATE DETAIL

MATL: ASTM A-36 N.T.S.

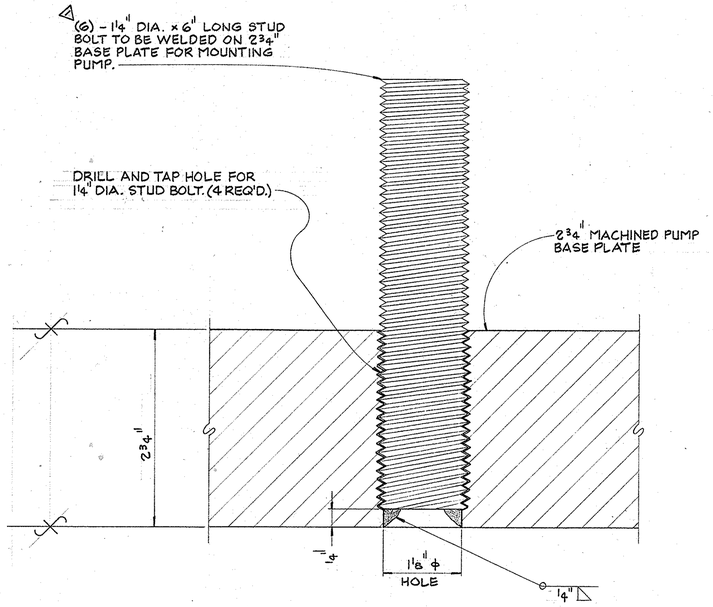


SECTION 2-28

1 1/2" = 1'-0"

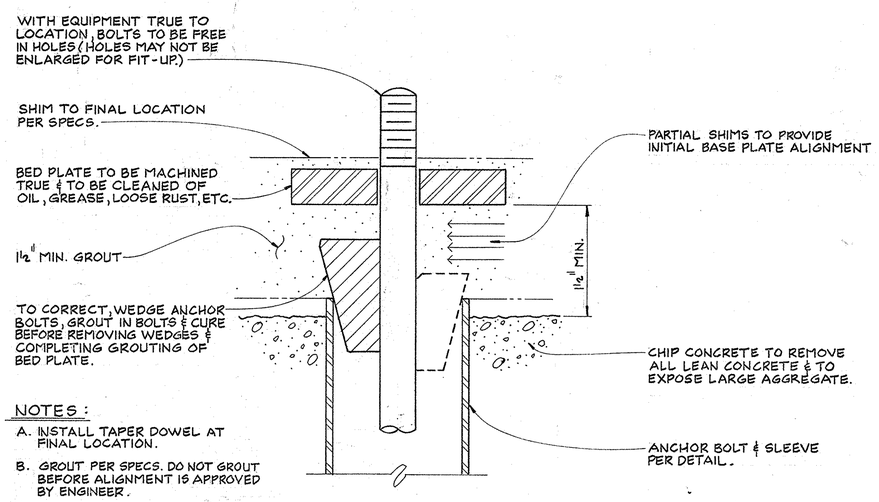
NOTE: 1. PUMP MOUNTING DETAILS SUBJECT TO CHANGE DEPENDING ON PUMP MANUFACTURER SELECTION.

△2. ℄ DISCHARGE @ ELEVATION 16.53'.



PUMP MOUNTING STUD BOLT DETAIL

FULL SCALE



NOTES:

A. INSTALL TAPER DOWEL AT FINAL LOCATION.

B. GROUT PER SPECS. DO NOT GROUT BEFORE ALIGNMENT IS APPROVED BY ENGINEER.

C. GROUT TO BE POSITIVELY APPLIED TO GIVE 100% FILL. APPLY WITH MINIMUM WORKING CONSISTANT WITH THIS.

D. SHIMS TO BE STAINLESS STEEL.

GENERAL GROUTING DETAIL

(TO APPLY TO ALL MACHINERY SETTINGS) N.T.S.

REV.	DATE	DESCRIPTION	BY
△	11/10/86	REVISED PUMP MOUNTING	MFL Jr.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PUMP MOUNT DETAILS

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

Norman R. Prima

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

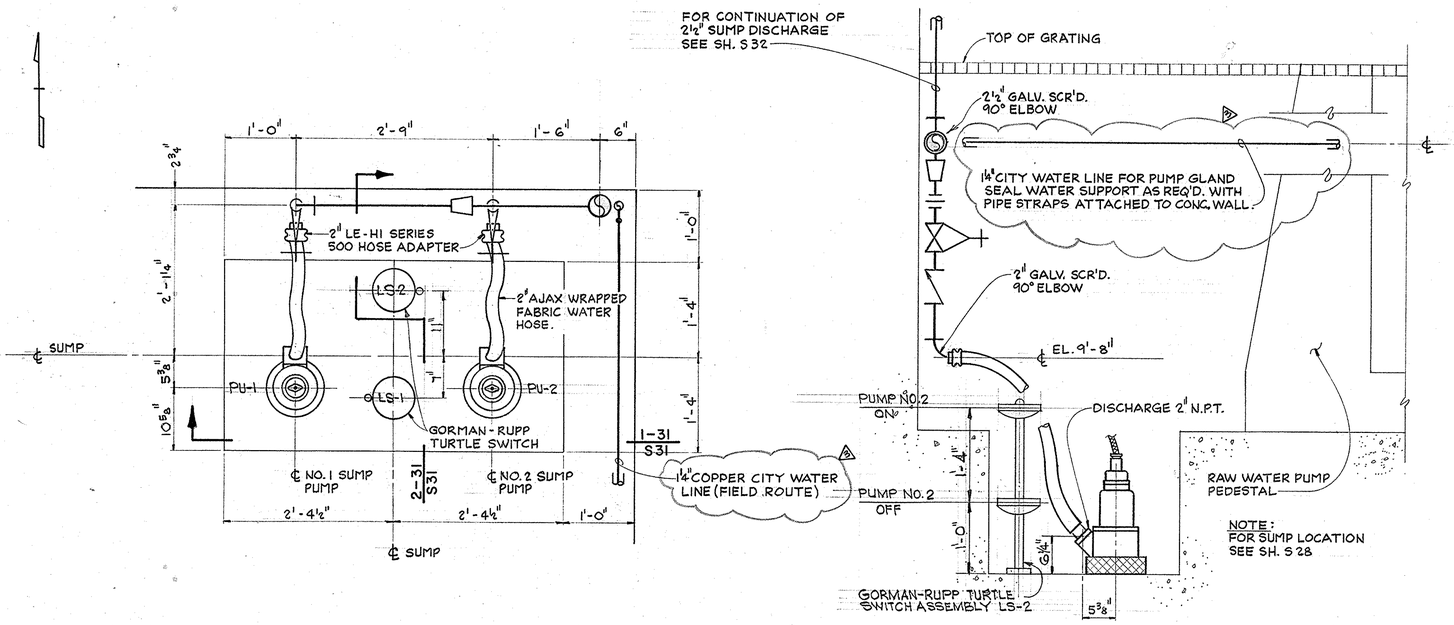
DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84.

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. SHEET NO. S30

BRUNING 40-22 96957

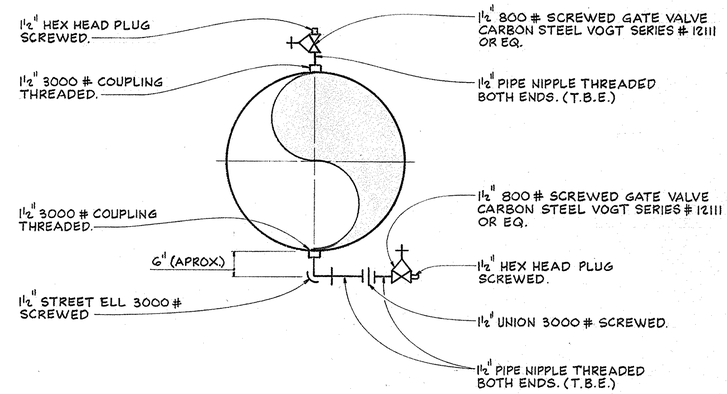


PLAN - SUMP AREA DETAIL

1" = 1'-0"

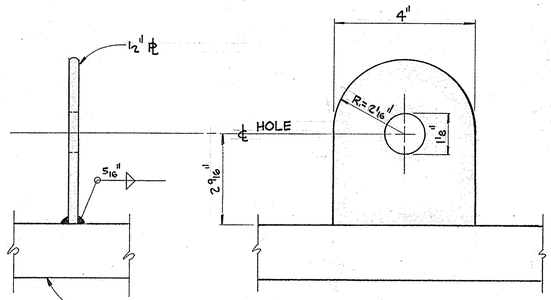
SECTION 2-31

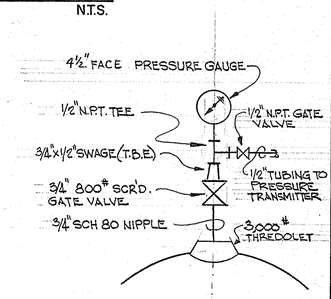
1" = 1'-0"



TYPICAL VENT & DRAIN DETAIL

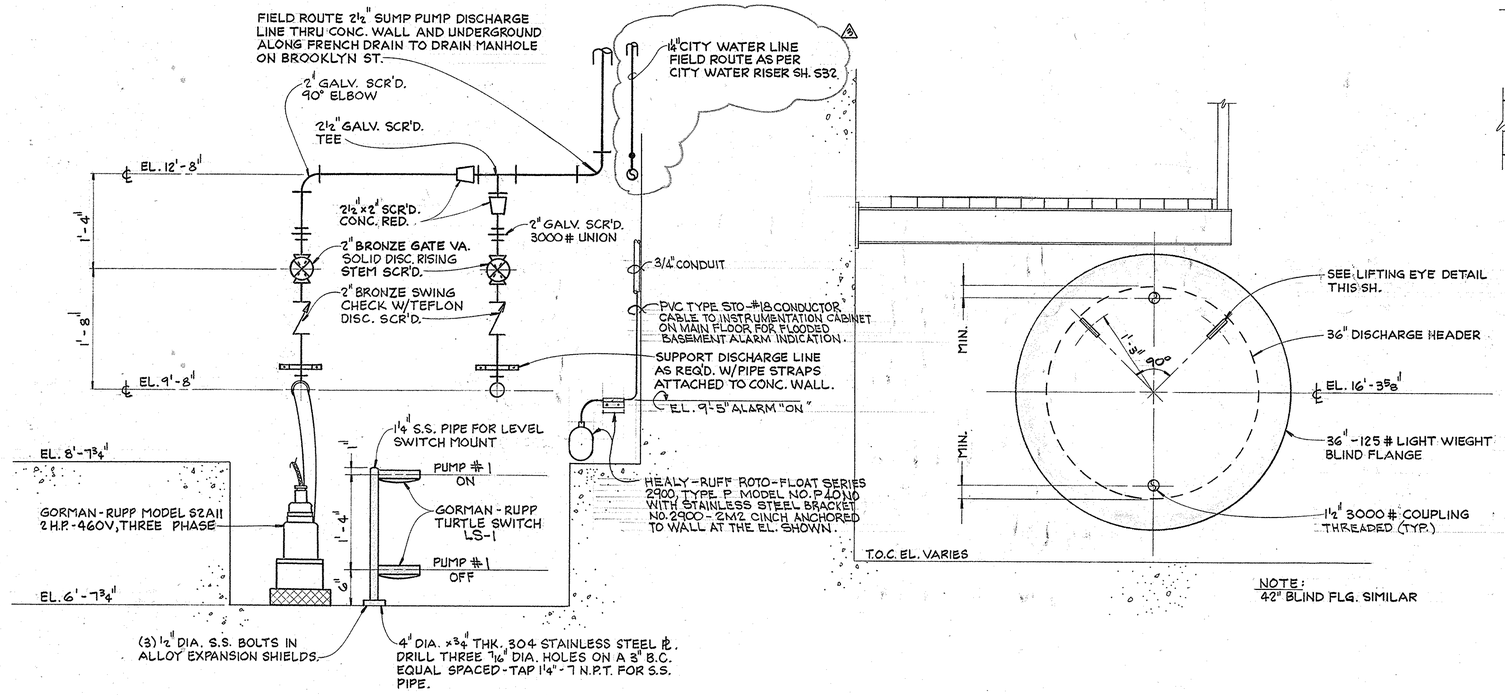
N.T.S.





TYPICAL PRESSURE GAUGE INSTALLATION

N.T.S.



SECTION 1-31

1" = 1'-0"

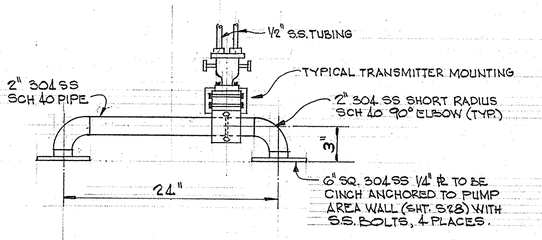
NOTE: 42" BLIND FLG. SIMILAR

BLIND FLANGE DETAIL

1" = 1'-0"

LIFTING EYE DETAIL

N.T.S.



INSTRUMENTATION MOUNTING BRACKET

1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	INCREASED CITY WATER LINE SIZES	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

SUMP PUMP & PIPING DETAILS

STATE OF LOUISIANA — NORMAN R. PRIMA, REG. No. 20049, REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

Norman R. Prima

CONTRACT NO. 1113

BERGERON AND LANG ENGINEERS, METAIRIE, LOUISIANA

DR. F.T.E. | TRC. | CK. NRP | AP. | SCALE AS NOTED | DATE OCT. 16, 84

A. Joseph Sullivan, GENERAL SUPERINTENDENT

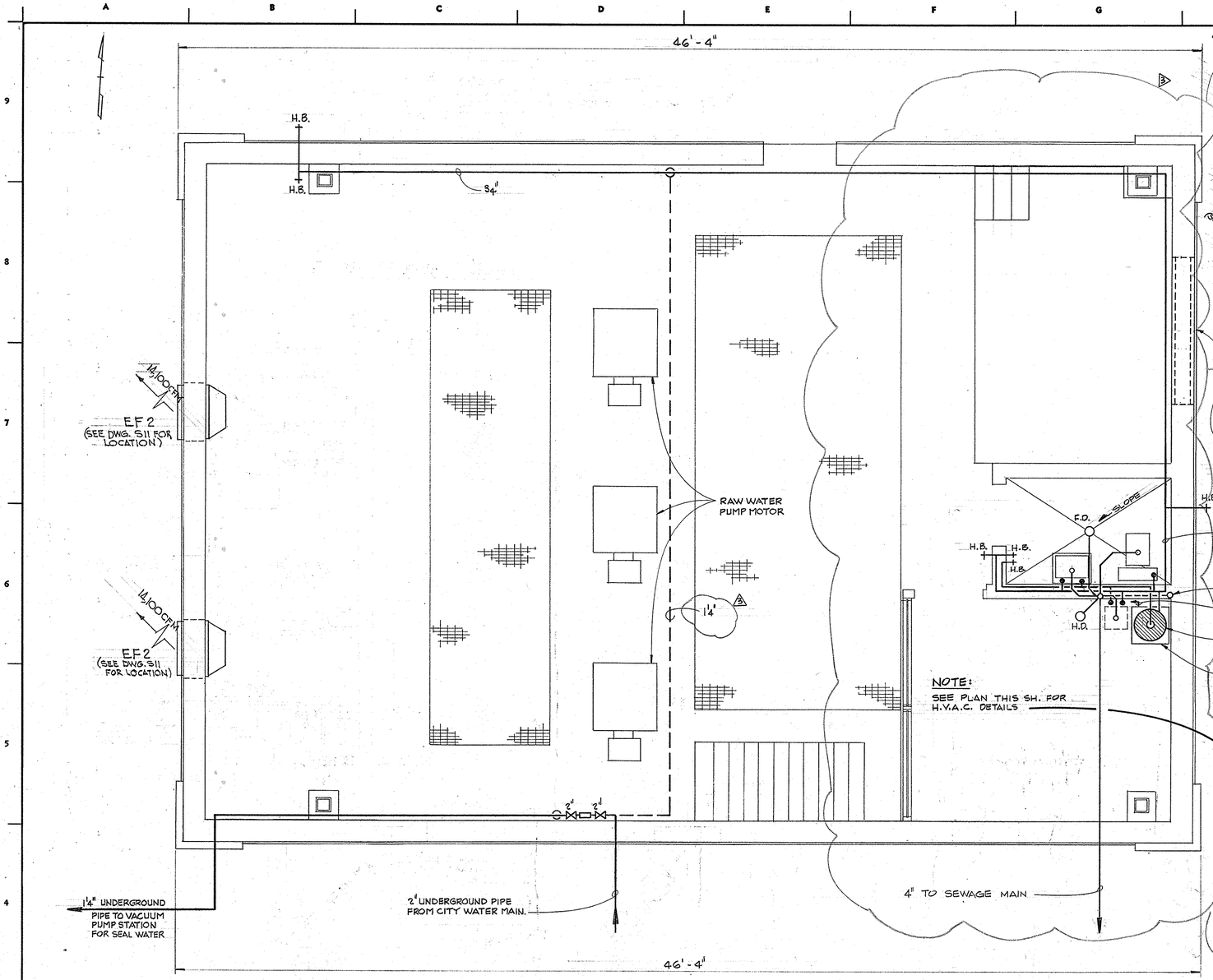
DWG. No. 11540-W-20

SET NO. | SHEET NO. S31

AF 12739

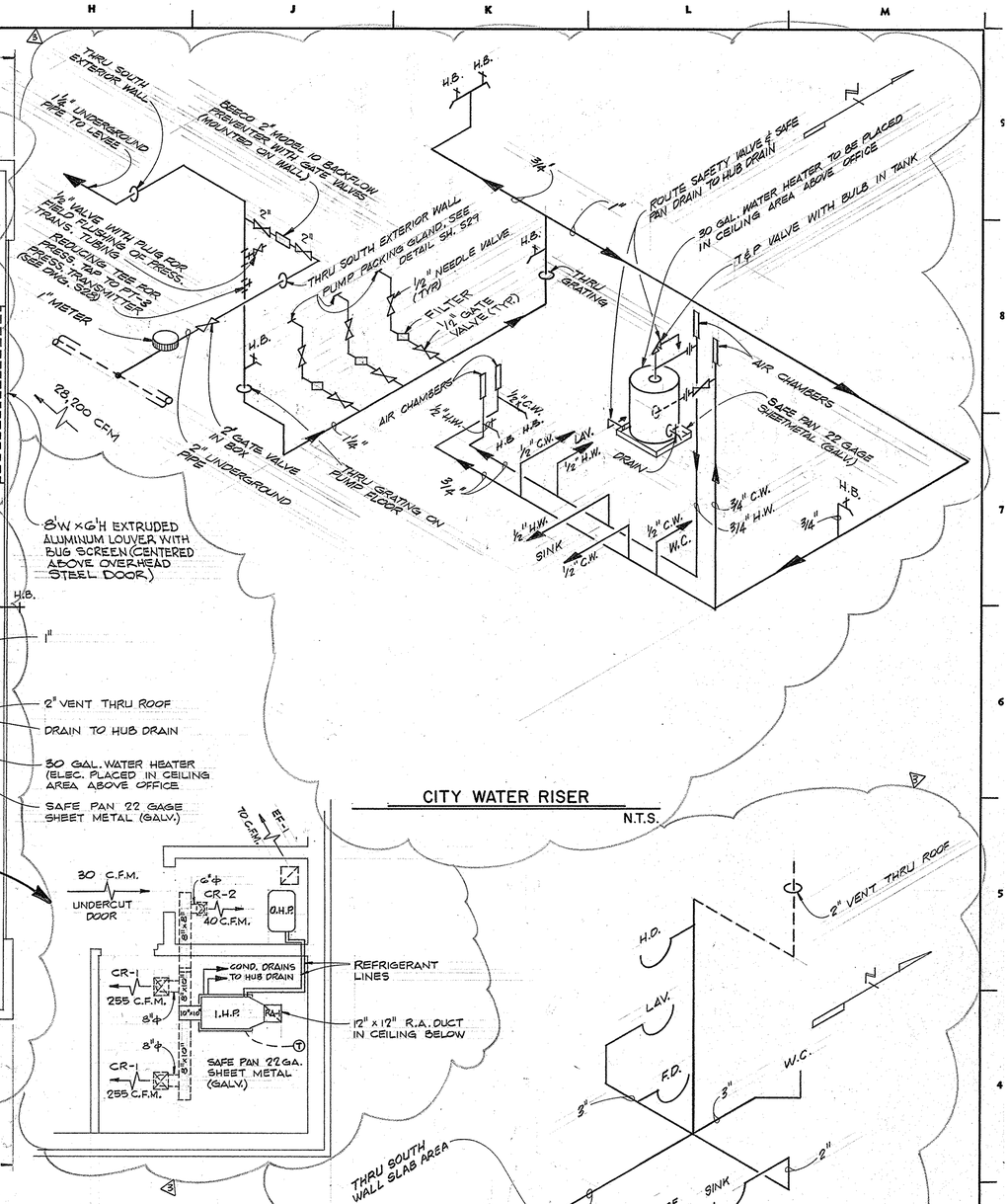
BRUNING 40-22 86957

AF 12739



OPERATIONS FLOOR — MECHANICAL

3/8" = 1'-0"

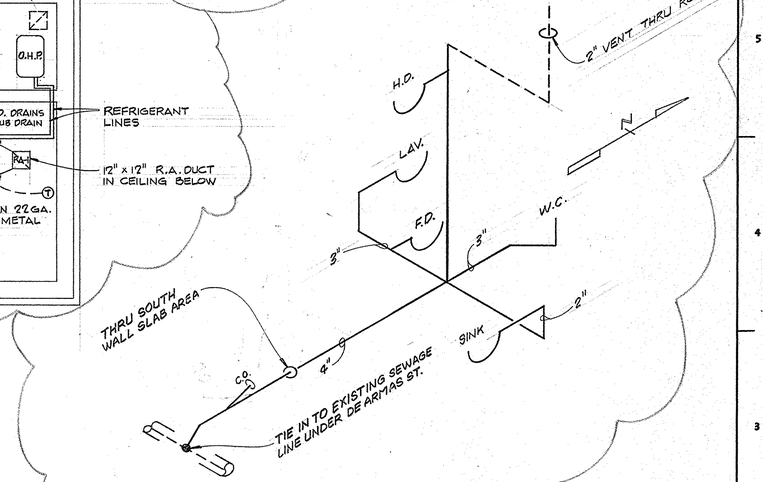


CITY WATER RISER

N.T.S.

8'W x G'H EXTRUDED ALUMINUM LOUVER WITH BUG SCREEN (CENTERED ABOVE OVERHEAD STEEL DOOR)

NOTE:
SEE PLAN THIS SH. FOR H.V.A.C. DETAILS



SANITARY WASTE RISER

N.T.S.

REGISTER & GRILL SCHEDULE

DESIGNATION	QTY.	NECK SIZE	AIR FLOW	MANUFACTURER	DESCRIPTION
RA-1	1	12" SQ.	550 CFM	TITUS MODEL T.X.R. OR EQUAL	PERFORATED PANEL FOR USE IN LAY-IN CEILING.
CR-1	2	8" ϕ	255 CFM	TITUS MODEL T.X.R. OR EQUAL	
CR-2	1	6" ϕ	40 CFM	TITUS MODEL T.X.R. OR EQUAL	

FAN SCHEDULE

DESIGNATION	QTY.	AIR FLOW	STATIC PRESS.	ELECTRIC SERVICE	MANUFACTURER	DESCRIPTION
EF-1	1	70 CFM	N/A	120V/1 ϕ	BROAN MODEL #671 OR EQUAL	BATHROOM CEILING VENTILATOR
EF-2	2	14,100 CFM	1/4"	480V/3 ϕ 1.5 BHP	AEROVENT MODEL #36L422-DDP-1160-1½ OR EQUAL.	36" DIRECT DRIVE PANEL FAN WITH FLUSH MOUNTED SHUTTER

HEAT PUMP COMPONENTS

DESIGNATION	AIR FLOW	ELECTRIC SERVICE	MANUFACTURER	DESCRIPTION
I HP	550 CFM	208 V/1" ϕ	CARRIER MODEL NO. 40AQ018 OR EQ.	INDOOR HEAT PUMP FAN COIL UNIT
O.H.P.	N/A	208 V/1" ϕ	CARRIER MODEL NO. 38CQ015 OR EQ.	OUTDOOR HEAT PUMP UNIT

ABOVE SELECTION E.A.T. 80° F o.a.
BASED ON: 67° F w.e.

AMBIENT 95°F

T.C. 14.7 M.B.H.
S.H.C. 11.3 M.B.H.
K.W. 2.2

REV.	DATE	DESCRIPTION	BY
2	7/5/85	RELOCATED OFFICE & TRUCK WELL INCREASED WATER LINE SIZE	VPM
1	11/26/84	ADDED RED. TEE W/ VALVE	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

H.V.A.C. & PLUMBING DETAILS

These plans and specifications have been prepared by or under (my supervision) close personal supervision and, to the best of (my opinion) knowledge and belief, they comply with all City requirements.

Norman R. Prima

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

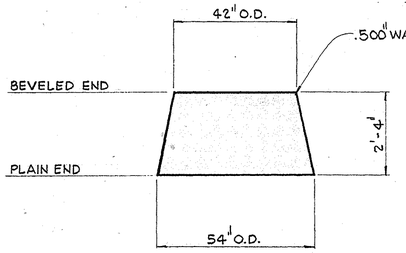
J. Joseph Sullivan
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S 32

BRUNING 40-22 56957

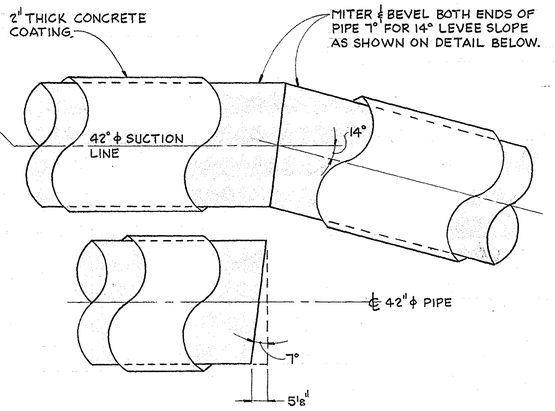
AF 12739

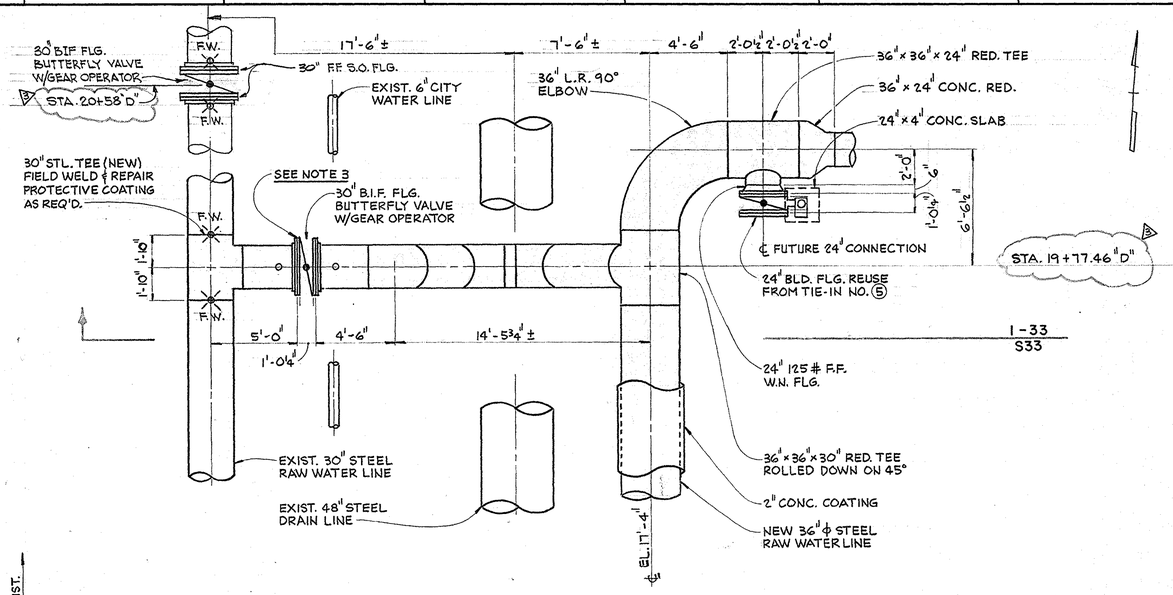
✱ NOTE:
FURNISH MARK NUMBERED FITTINGS W/2" MIN. TK. CONC. COATING.



MARK 1 ✱

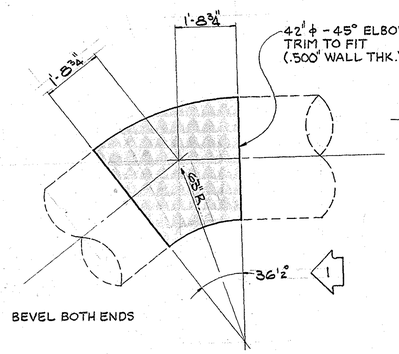
SEE SH. S3 FOR LOCATION





BELL MOUTH DETAIL

(ONE REQ'D.) ½" = 1'-0"

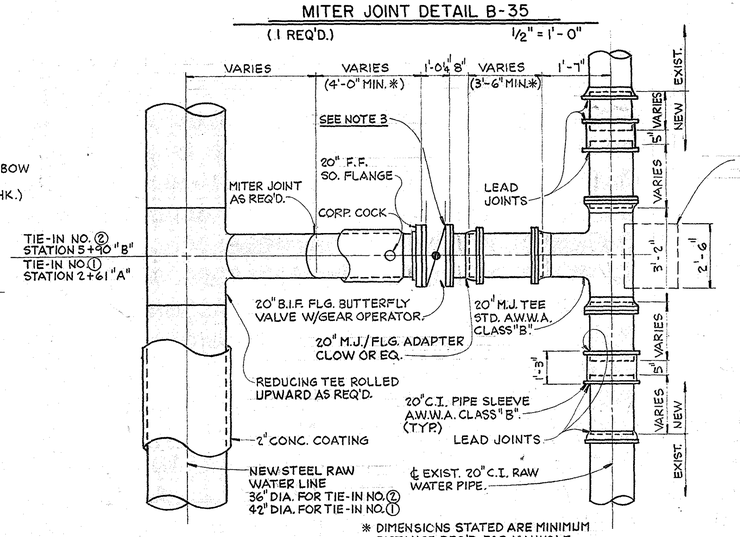


MARK 2 ✱

SEE SH. S-2 FOR LOCATION

MITER JOINT DETAIL B-35

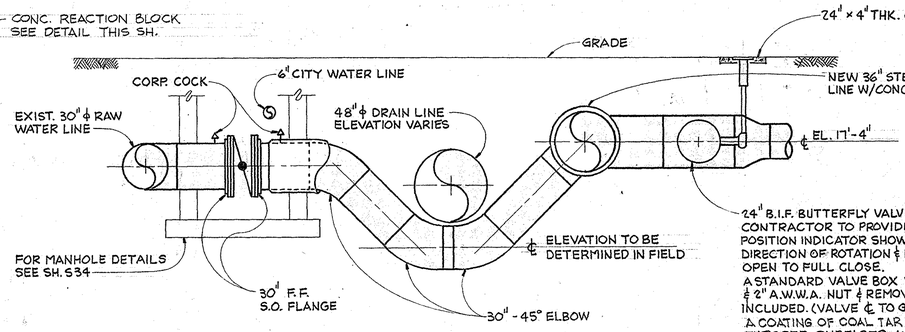
(1 REQ'D.) ½" = 1'-0"



✱ DIMENSIONS STATED ARE MINIMUM DISTANCE REQ'D. FOR MANHOLE PENETRATIONS.

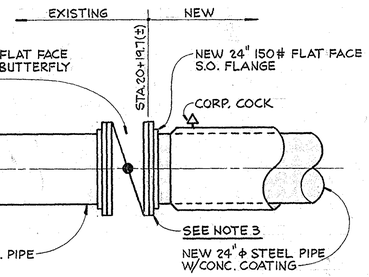
PLAN – TIE-IN DETAIL NO. ④ & ④A

SEE SH. S48 N.T.S.



SECTION I-33

N.T.S.

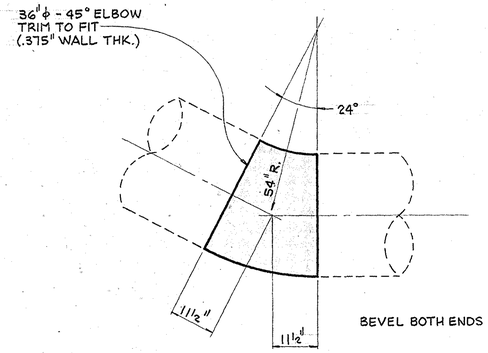


NOTE: REMOVE EXIST. ¼" THK. STL. ℞ BLIND FLG. AND CONNECT NEW 24" STL. PIPE. REUSE BLD. FLG. ON 24" BUTTERFLY VALVE NEAR TIE-IN NO. ④

NOTES:
1. CONTRACTOR TO VERIFY ALL ELEVATIONS AND LOCATIONS OF EXIST. LINES BEFORE NEW PIPE FABRICATION.
2. REFERENCE PLAN-PROFILE SHEETS S-41 THRU S-48 FOR TIE-IN LOCATIONS AND POSSIBLE INTERFERENCES.
3. INSULATING FLANGE KIT TO MATCH PIPE SIZE F.H. MAHONEY OR EQ.
4. BEFORE ANY TIE-IN WORK IS PERFORMED ON THE EXISTING RAW-WATER LINES, CONTRACTOR SHALL INFORM S. & W.B. CHIEF OF OPERATIONS, J.F. BECNEL, IN WRITING AT LEAST TWO WEEKS IN ADVANCE. IF OPERATING CONDITIONS DO NOT PERMIT THE TIE-INS TO BE MADE ON THE INTENDED DATE, A TWO-WEEK DELAY WILL BE REQUIRED AT NO ADDITIONAL COST TO THE BOARD. SEE SHT. S27 FOR TIE-IN DESCRIPTIONS.

TRIM DETAIL

(ONE REQ'D.) ½" = 1'-0"



MARK 3 ✱

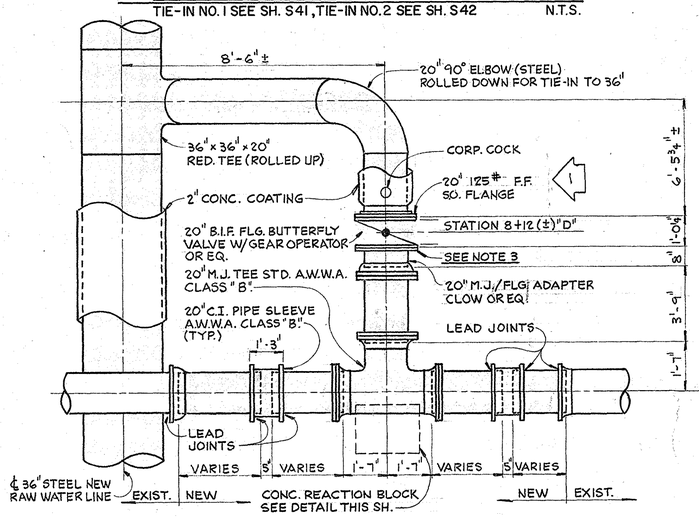
SEE SH. S28 FOR LOCATION

TRIM DETAIL

(ONE REQ'D.) N.T.S.

TYPICAL TIE-IN DETAILS NO.s ① & ②

TIE-IN NO. 1 SEE SH. S41, TIE-IN NO. 2 SEE SH. S42 N.T.S.

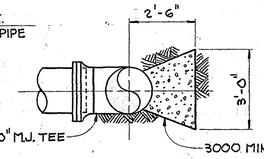


TIE-IN DETAIL NO. ③

SEE SH. S45 N.T.S.

PLANT TIE-IN DETAIL NO. ⑤

SEE SH. S48 ½" = 1'-0"



REACTION BLOCK DETAIL

(3 REQ'D.) N.T.S.

REV.	DATE	DESCRIPTION	BY
2	7/5/85	CHANGED STATIONS	VPM
1	11/26/84	CHANGED FLG'S & MK-2 DETAIL	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PIPING JOINT & TIE-IN DETAILS

STATE OF LOUISIANA — NORMAN R. PRIMA — REG. No. 20049 — REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG ENGINEERS
METAIRIE, LOUISIANA

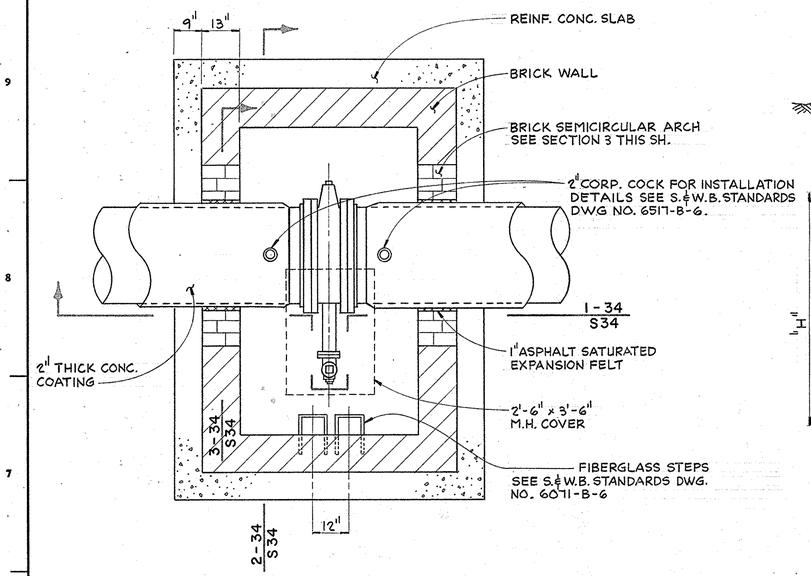
DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S 33

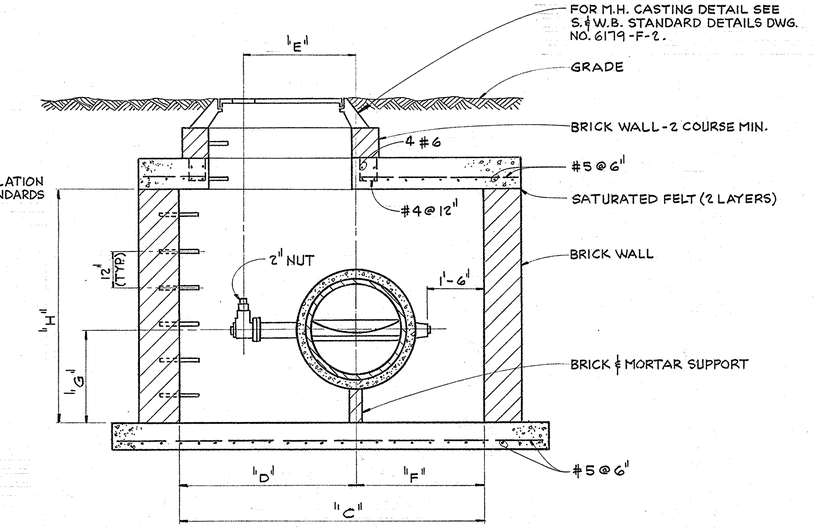
BRUNING 40-22 56957

AF 12739



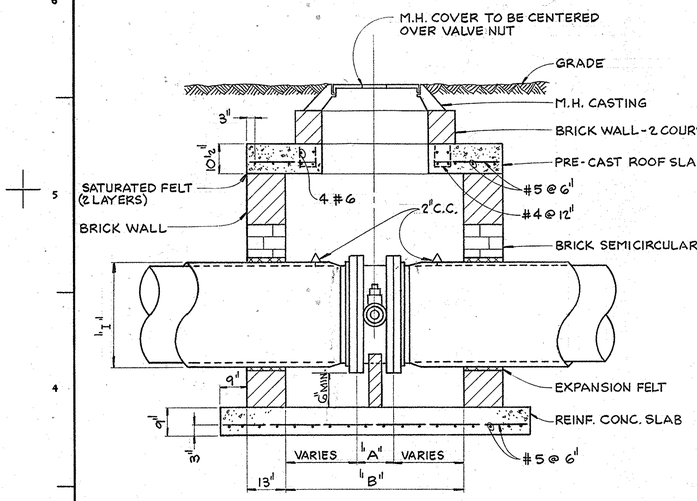
PLAN - BUTTERFLY VALVE MANHOLE

N.T.S.



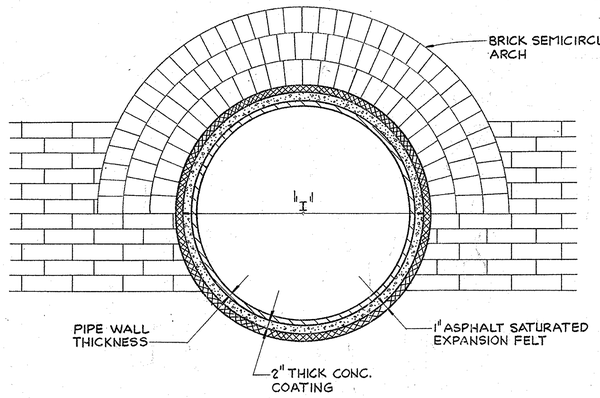
SECTION 2-34

N.T.S.



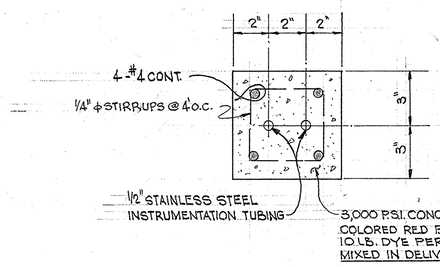
SECTION 1-34

N.T.S.



SECTION 3-34

N.T.S.



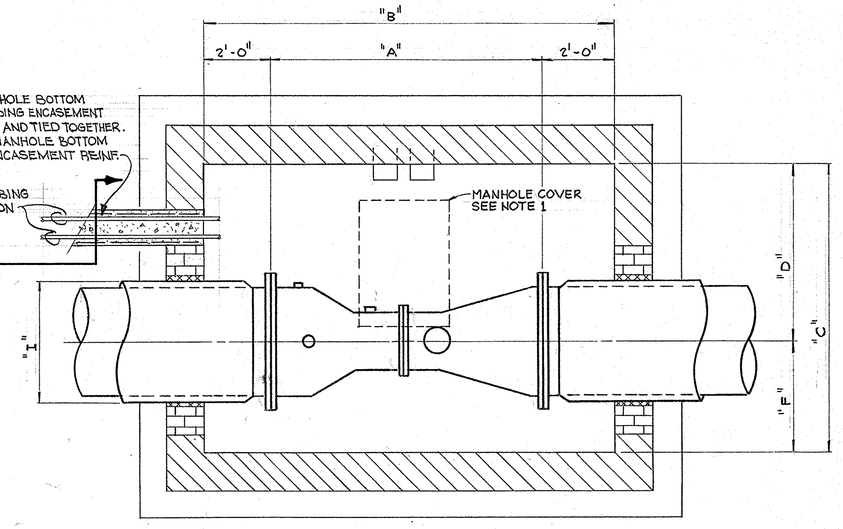
SECTION 4-34

N.T.S.

REINFORCING STEEL IN MANHOLE BOTTOM AND IN INSTRUMENTATION TUBING ENCASEMENT SHALL BE OVERLAPPED 8" AND TIED TOGETHER. INSTALL 4-#4 HOOKS IN MANHOLE BOTTOM TO BE TIED TO TUBING ENCASEMENT REINF.

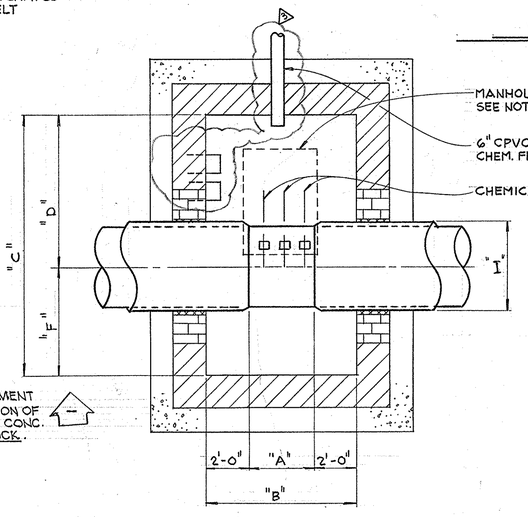
½" STAINLESS STEEL TUBING FROM NEW RIVER STATION

4-34 S34



VENTURI METER MANHOLE

(SEE NOTE 2) N.T.S.



CHEMICAL FEED MANHOLE

(SEE NOTE 2) N.T.S.

BUTTERFLY VALVE MANHOLE DIMENSIONS

VALVE SIZE	A	B	C	D	E	F	G	H	I*	QTY. OF MANHOLES
42"	12"	5'-0"	9'-2"	5'-0"	3'-0 3/8"	4'-2"	3'-3"	8'-0"	46"	1
30"	12"	5'-0"	7'-9"	4'-4"	2'-4"	3'-5"	2'-8"	7'-0"	34"	2
20"	8"	5'-0"	6'-10"	4'-0"	1'-11¼"	2'-10"	2'-2"	7'-0"	24"	2
20"	8"	5'-0"	6'-10"	4'-0"	1'-11¼"	2'-10"	3'-2"	6'-6"	24"	1

CHEMICAL FEED MANHOLE DIMENSIONS

—	3'-0"	7'-0"	8'-0"	5'-0"	SEE NOTE 1	3'-0"	3'-8"	6'-9"	40"	1

VENTURI METER MANHOLE DIMENSIONS

—	7'-6"	11'-6"	8'-0"	5'-0"	SEE NOTE 1	3'-0"	3'-8"	6'-9"	40"	1

NOTE: EXISTING 24" VALVE AT PLANT TIE-IN SHALL REMAIN AS BURIED SERVICE WITH MANUAL VALVE OPERATOR EXTENDING TO GROUND SURFACE VALVE BOX.

* O.D. OF PIPE W/CONC. COATING

NOTES:

1. MANHOLE COVERS SHALL BE POSITIONED OVER LADDER RUNGS FOR EASY ACCESS IN AND OUT OF MANHOLE.
2. ALL CONSTRUCTION DETAILS SHOWN FOR VALVE MANHOLES APPLY TO VENTURI & CHEM. FEED MANHOLES.

REV.	DATE	DESCRIPTION	BY
2	7/5/84	RELOCATED PVC & LADDER RUNGS	VPM
1	11/26/84	SWAPPED "F" & "D" ON CHEMICAL FEED M.H.	MFL

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VALVE, FLOW METER AND CHEM. FEED MANHOLES

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

STATE OF LOUISIANA — NORMAN R. PRIMA, REG. No. 20049, REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

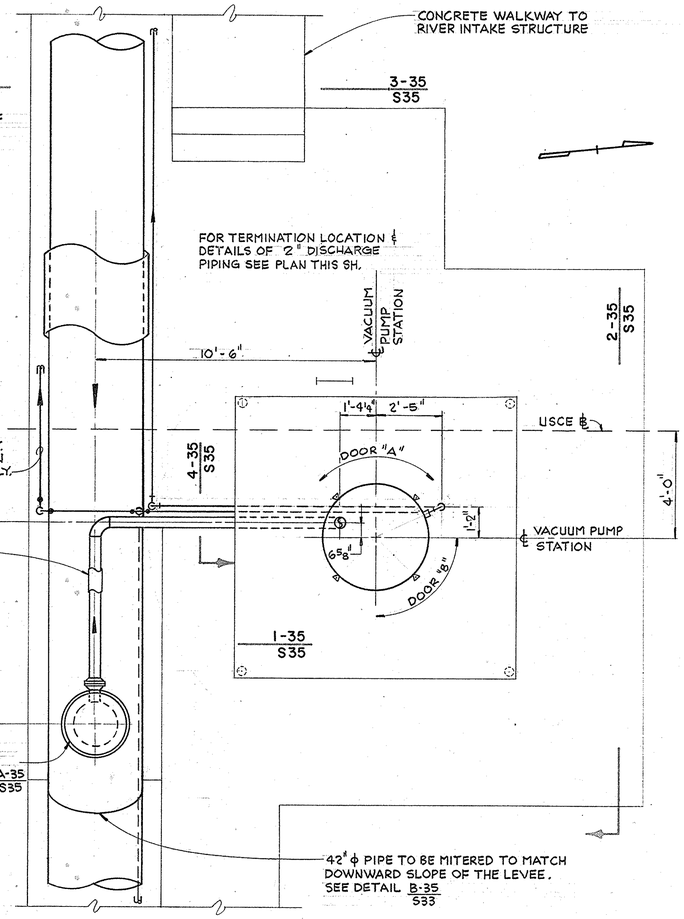
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. SHEET NO. S 34

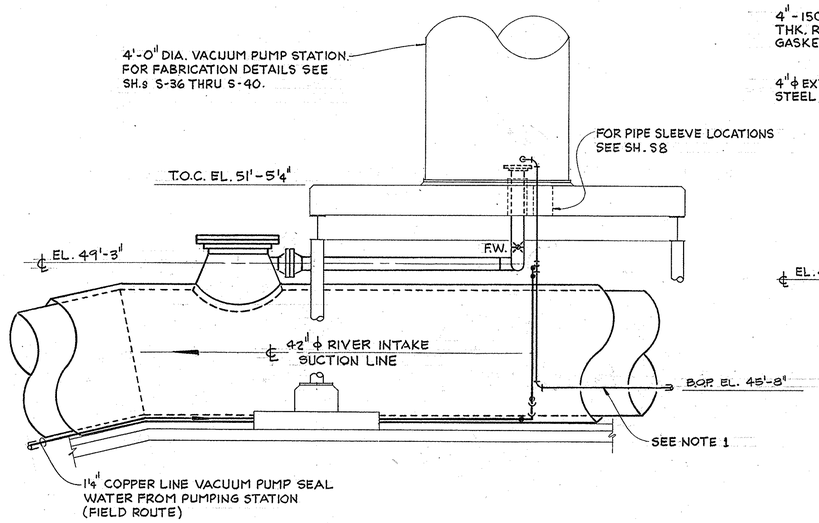
BRUNING 40-22 56857

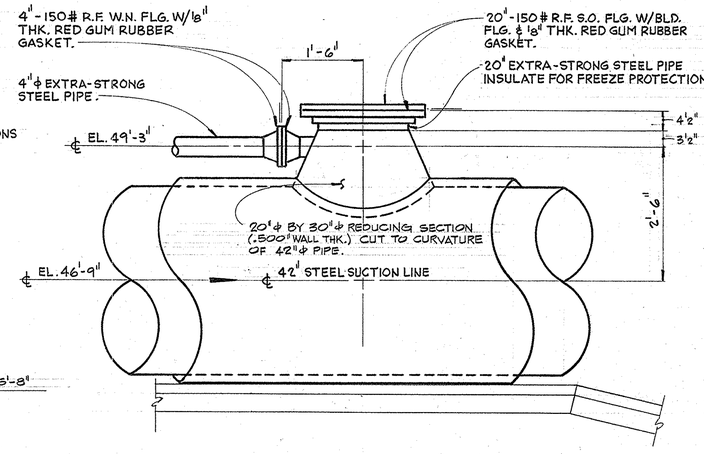
AF 12739



PLAN - VACUUM PUMP STATION PIPING

3/8" = 1'-0"



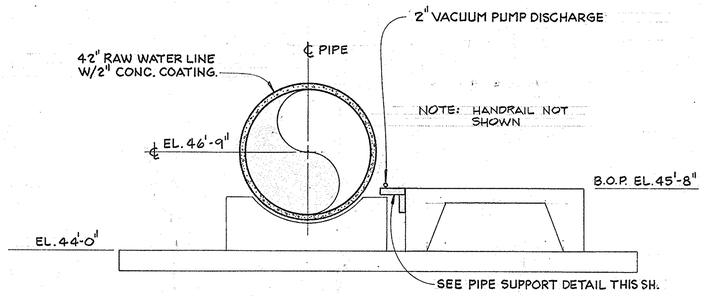


AIR COLLECTION CHAMBER DETAIL A-35

3/4" = 1'-0"

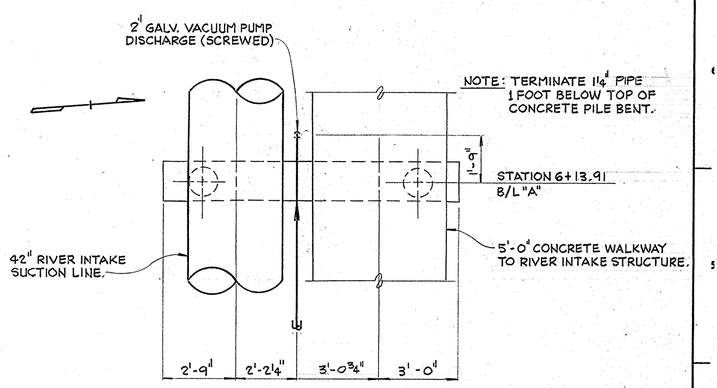
SECTION 2 - 35

1/2" = 1'-0"



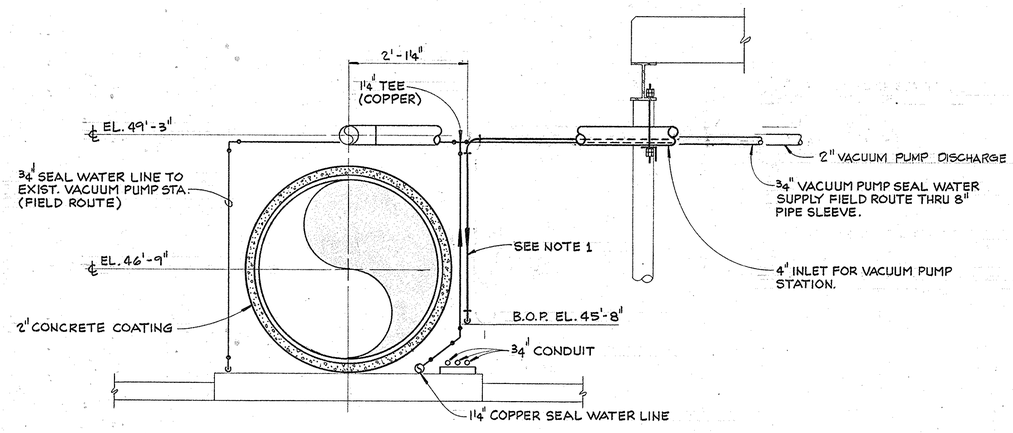
SECTION 3 - 35

1/2" = 1'-0"



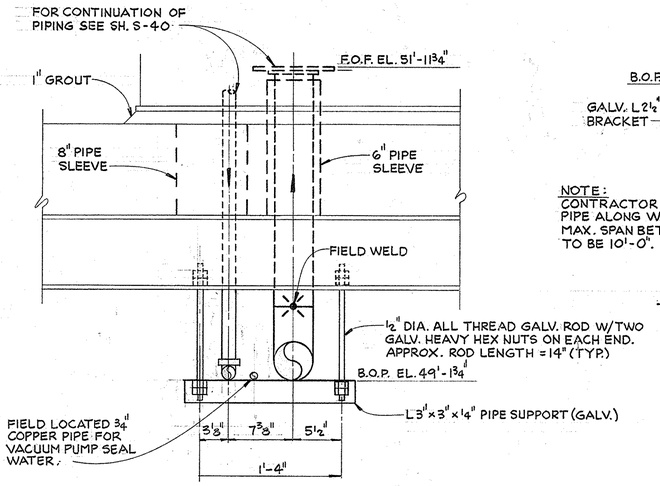
PLAN - DISCHARGE PIPING

3/8" = 1'-0"



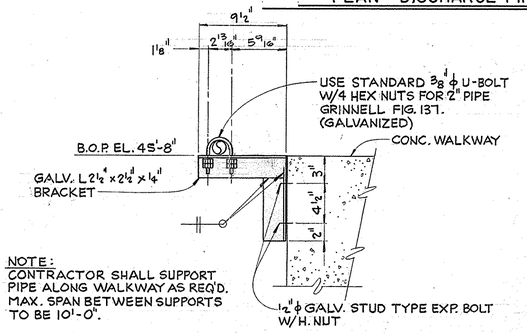
SECTION 1 - 35

3/4" = 1'-0"



SECTION 4 - 35

1½" = 1'-0"



NOTE:
CONTRACTOR SHALL SUPPORT PIPE ALONG WALKWAY AS REQ'D. MAX. SPAN BETWEEN SUPPORTS TO BE 10'-0".

PIPE SUPPORT DETAIL

1½" = 1'-0"

NOTES:

1. INSULATE ALL VACUUM PUMP STATION PIPING AS REQ'D. FOR FREEZE PROTECTION, SEE SPECIFICATIONS.
2. ALL GASKET CONNECTIONS SHALL BE ⅛" THICK RED GUM RUBBER.
3. TO EXECUTE LEVEE WORK, THE EXISTING SEAL WATER LINE TO THE OLD RIVER STATION NO. 1 VACUUM PUMPS WILL HAVE TO BE REMOVED. THEREFORE, A TEMPORARY ¾" SEAL WATER LINE WILL HAVE TO BE CONNECTED TO AVOID INTERRUPTION OF PLANT OPERATIONS UNTIL THE NEW 1¼" LINE CAN BE COMPLETED.
4. CONTRACTOR SHALL NOTIFY THE S & WB IN WRITING AT LEAST 2 WEEKS IN ADVANCE BEFORE ANY TIE-IN WORK IS PERFORMED.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION MISC. EXTERNAL PIPING

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

Norman R. Prima

CONTRACT NO. 1113

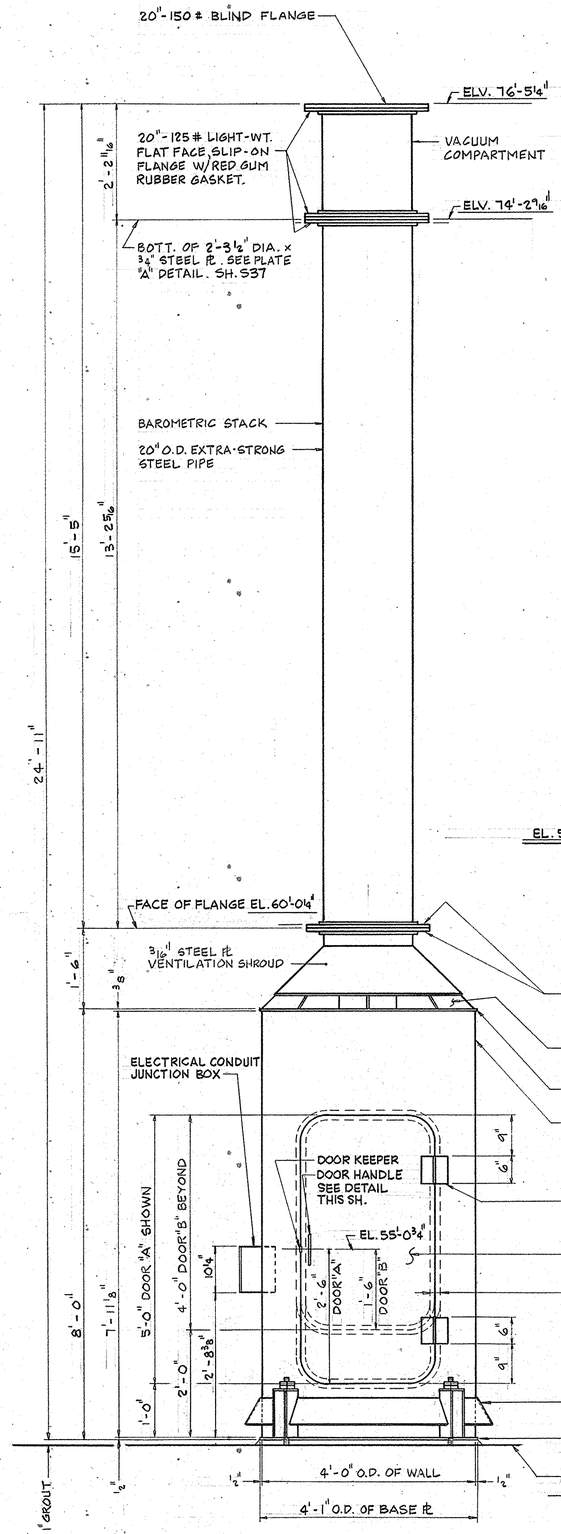
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

S. Joseph Sullivan
GENERAL SUPERINTENDENT

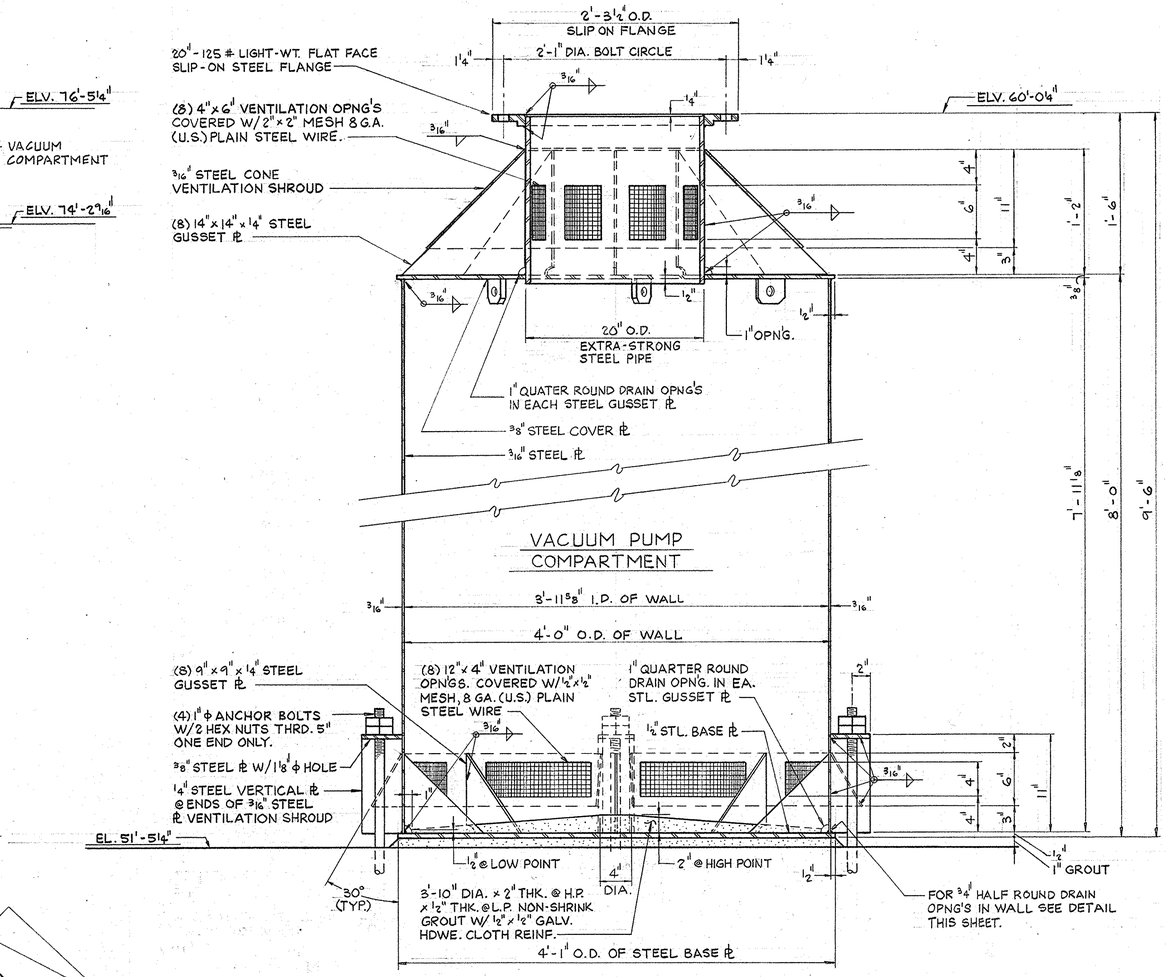
DWG. No. 11540-W-20
SET NO.
SHEET NO. S 35

BRUNING 40-22 56957



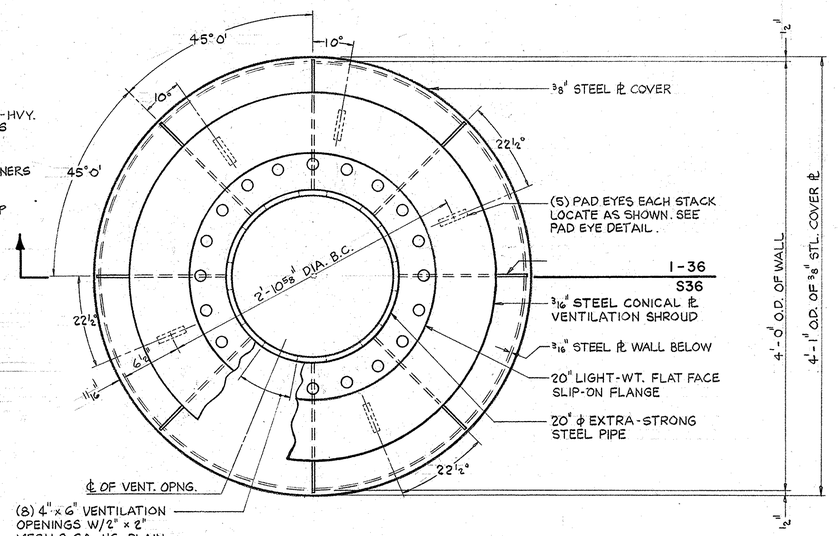
ELEVATION OF BAROMETRIC VACUUM STACK

3/4"=1'-0"



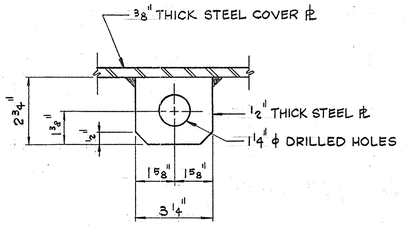
SECTION 1-36

1½"=1'-0"



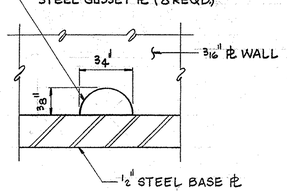
PLAN @ ELEVATION 60'-0¼"

1½"=1'-0"



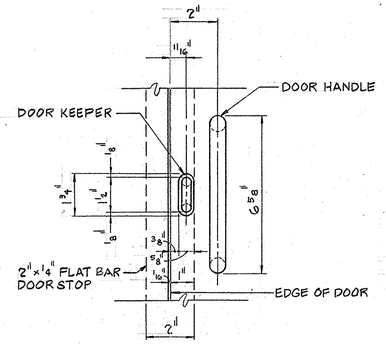
PAD EYE DETAIL

(5 REQ'D.) N.T.S.



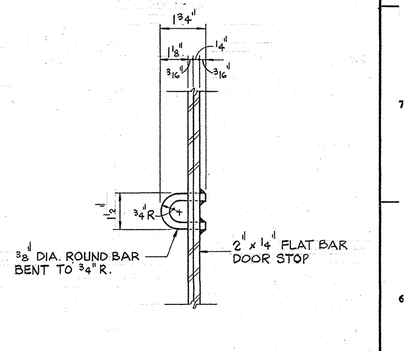
DRAIN OPENING DETAIL

N.T.S.



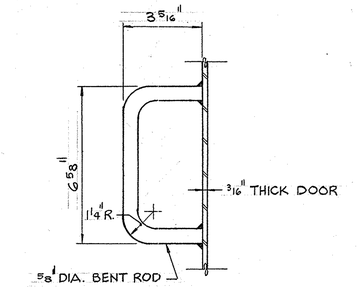
DOOR HANDLE & KEEPER DETAIL

N.T.S.



DOOR KEEPER DETAIL

(2 REQ'D.) N.T.S.



DOOR HANDLE DETAIL

(2 REQ'D.) N.T.S.

NOTE: ALL BOLTS, NUTS, WASHERS, FLANGES, GUSSET PL'S, STL. PIPING, CHANNELS AND BAROMETRIC STACK TO BE HOT-DIPPED GALVANIZED STEEL, EXCEPT BRASS, C.I. COPPER, BRONZE AND STAINLESS STEEL PIPING AND VALES.
ALL GASKETS TO BE ⅛" THICK RED GUM RUBBER.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION ELEVATIONS & DETAILS

STATE OF LOUISIANA — NORMAN R. PRIMA — REG. No. 20049 — REGISTERED PROFESSIONAL ENGINEER — MECHANICAL ENGINEERING

Norman R Prima

CONTRACT NO. 1113

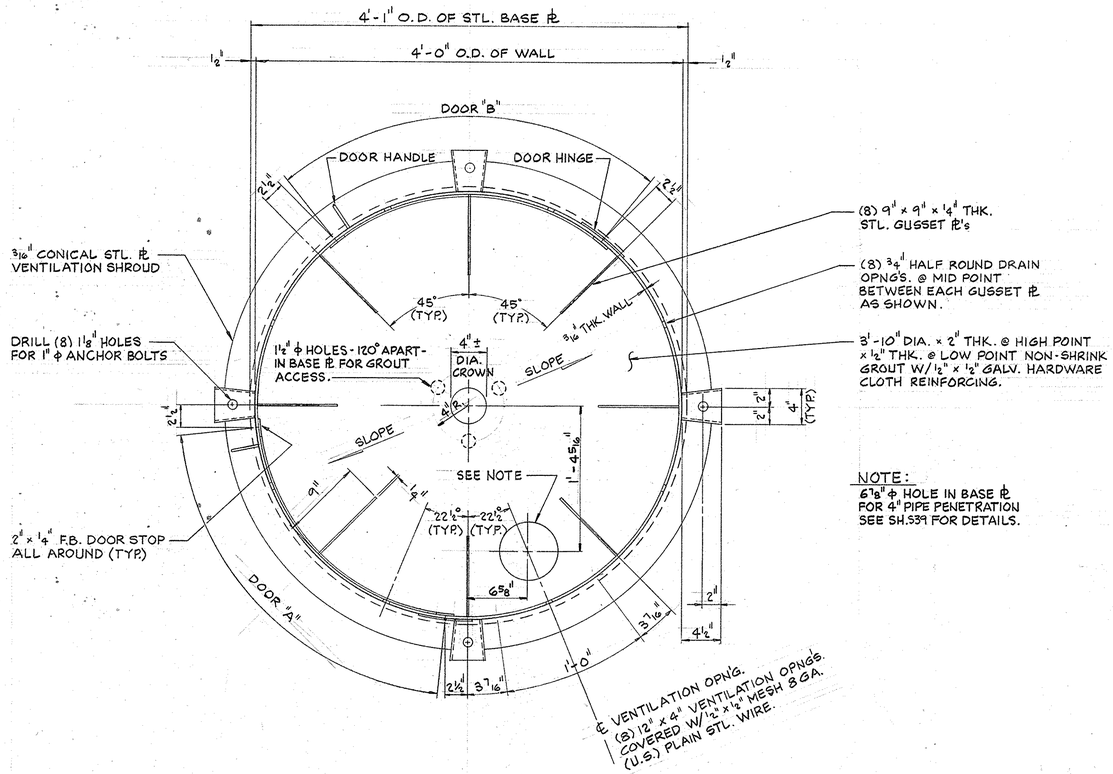
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. FTE
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

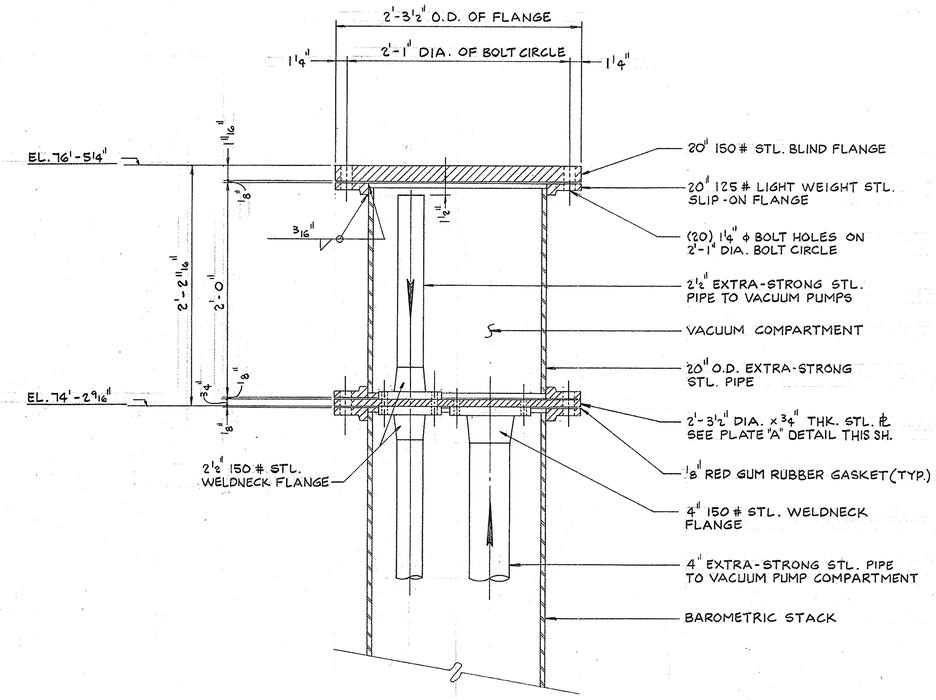
DWG. No. 11540-W-20
SET NO.
SHEET NO. S36

Dietzgen N. O. 1984 "Ageproof"



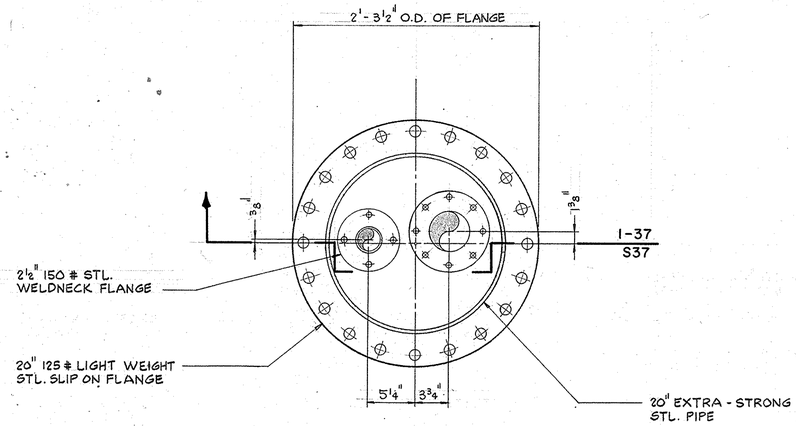
PLAN @ ELEVATION 55'-0 3/4"

1 1/2" = 1'-0"



SECTION 1-37

1 1/2" = 1'-0"



PLAN @ ELEVATION 74'-2 9/16"

1 1/2" = 1'-0"

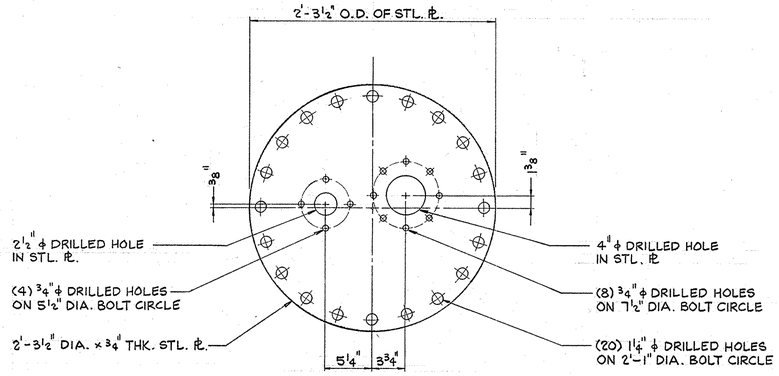


PLATE "A" DETAIL

1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION PLANS & SECTION

STATE OF LOUISIANA — NORMAN R. PRIMA, REG. No. 20049, REGISTERED PROFESSIONAL ENGINEER, MECHANICAL ENGINEERING

Norman R Prima

CONTRACT NO. 1113

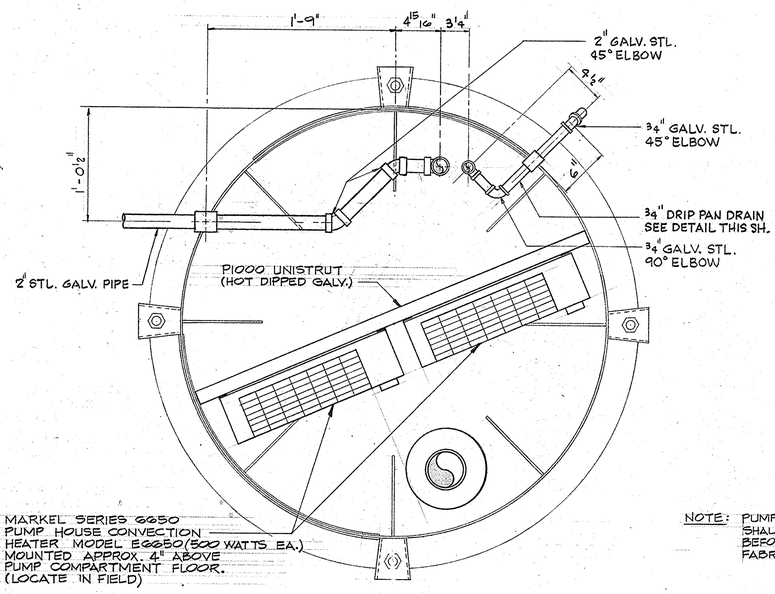
BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. FTE
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

A. Joseph Sullivan
GENERAL SUPERINTENDENT

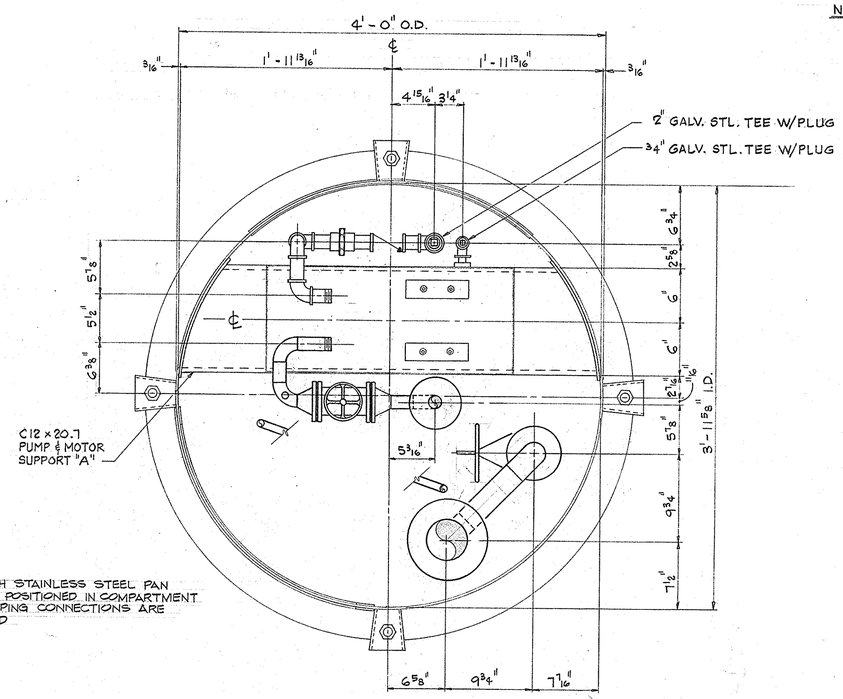
DWG. No. 11540-W-20

SET NO.
SHEET NO. S37



PIPING PLAN @ EL. 53'-8 7/16"

N.T.S

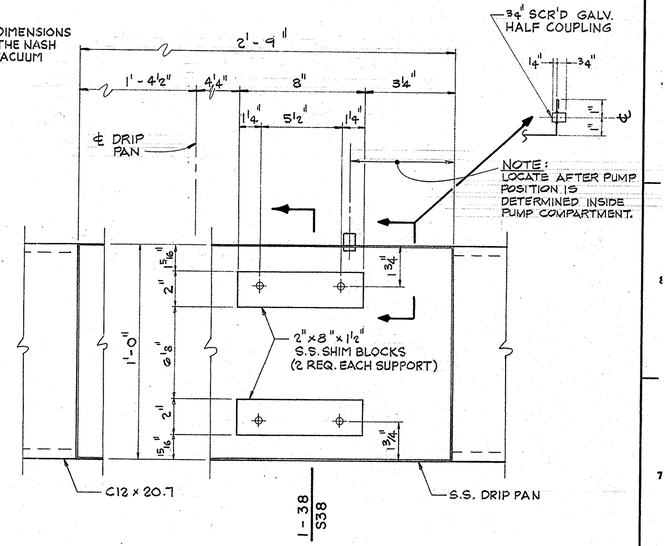


NOTE: PUMP WITH STAINLESS STEEL PAN SHALL BE POSITIONED IN COMPARTMENT BEFORE PIPING CONNECTIONS ARE FABRICATED

PIPING PLAN @ EL. 56'-1 1/4"

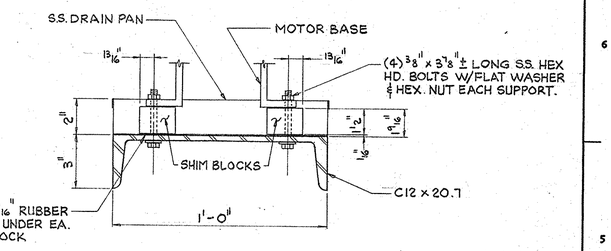
N.T.S.

NOTE: DRIP PAN DIMENSIONS ARE FOR THE NASH MHF-120 VACUUM PUMP.



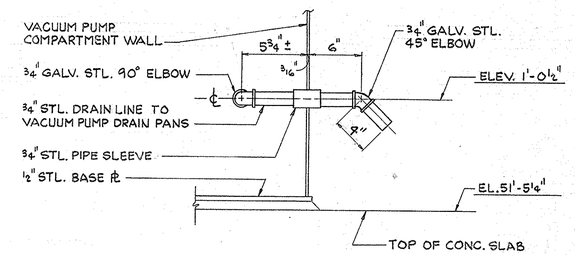
VACUUM PUMP DRIP PAN DETAIL

N.T.S.



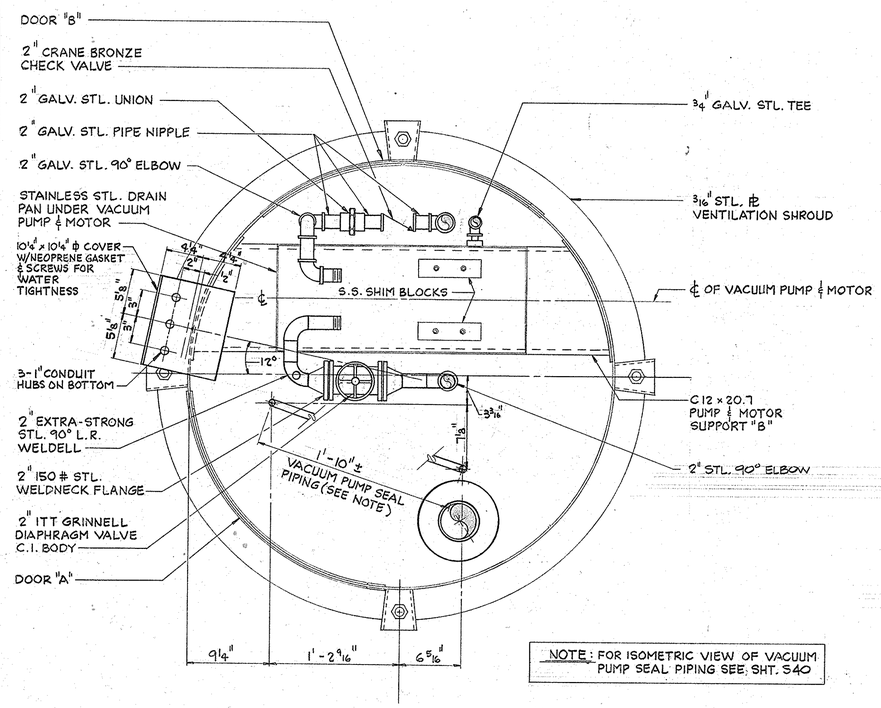
SECTION I-38

N.T.S.



DRIP PAN DRAIN DETAIL

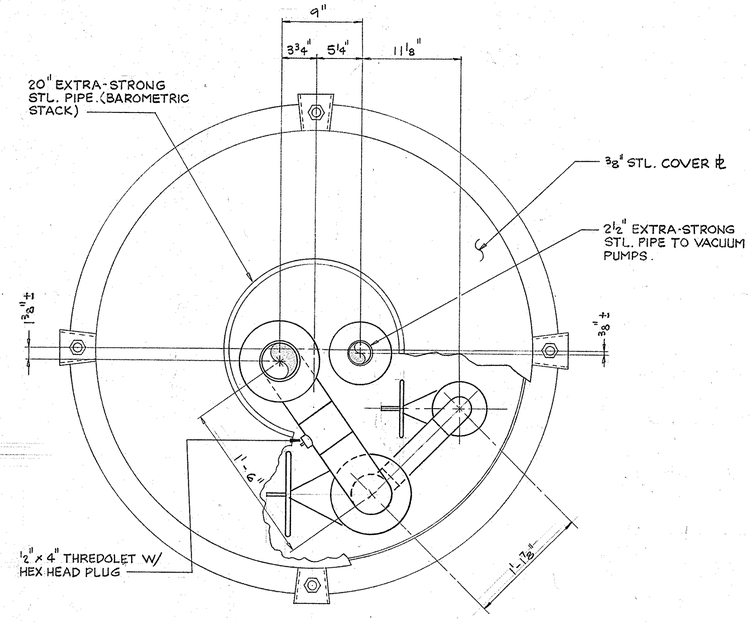
N.T.S.



NOTE: FOR ISOMETRIC VIEW OF VACUUM PUMP SEAL PIPING SEE SHT. S40

PIPING PLAN @ EL. 54'-6 3/4"

N.T.S.



PIPING PLAN @ EL. 59'-6 3/4"

1 1/2" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION PLANS & DETAILS

STATE OF LOUISIANA — NORMAN R. PRIMA REG. No. 20049 REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

Norman R Prima

CONTRACT NO. 1113

BERGERON AND LANG ENGINEERS

METAIRIE, LOUISIANA

DR.	FTE
TRC.	
CK.	NRP
AP.	
SCALE	AS NOTED
DATE	OCT. 16, 84

GENERAL SUPERINTENDENT

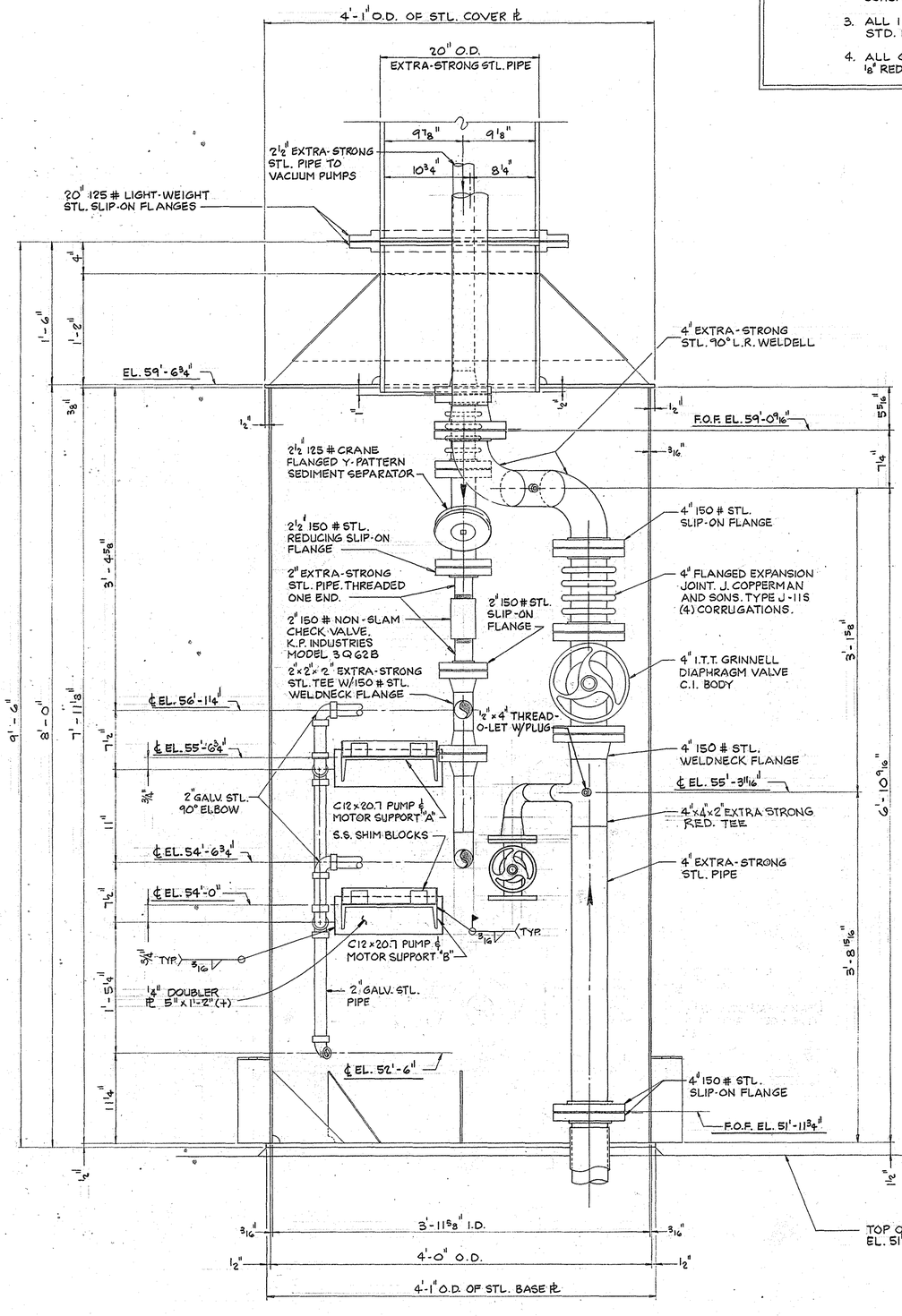
DWG. No. 11540-W-20

SET NO. | SHEET NO. S 38

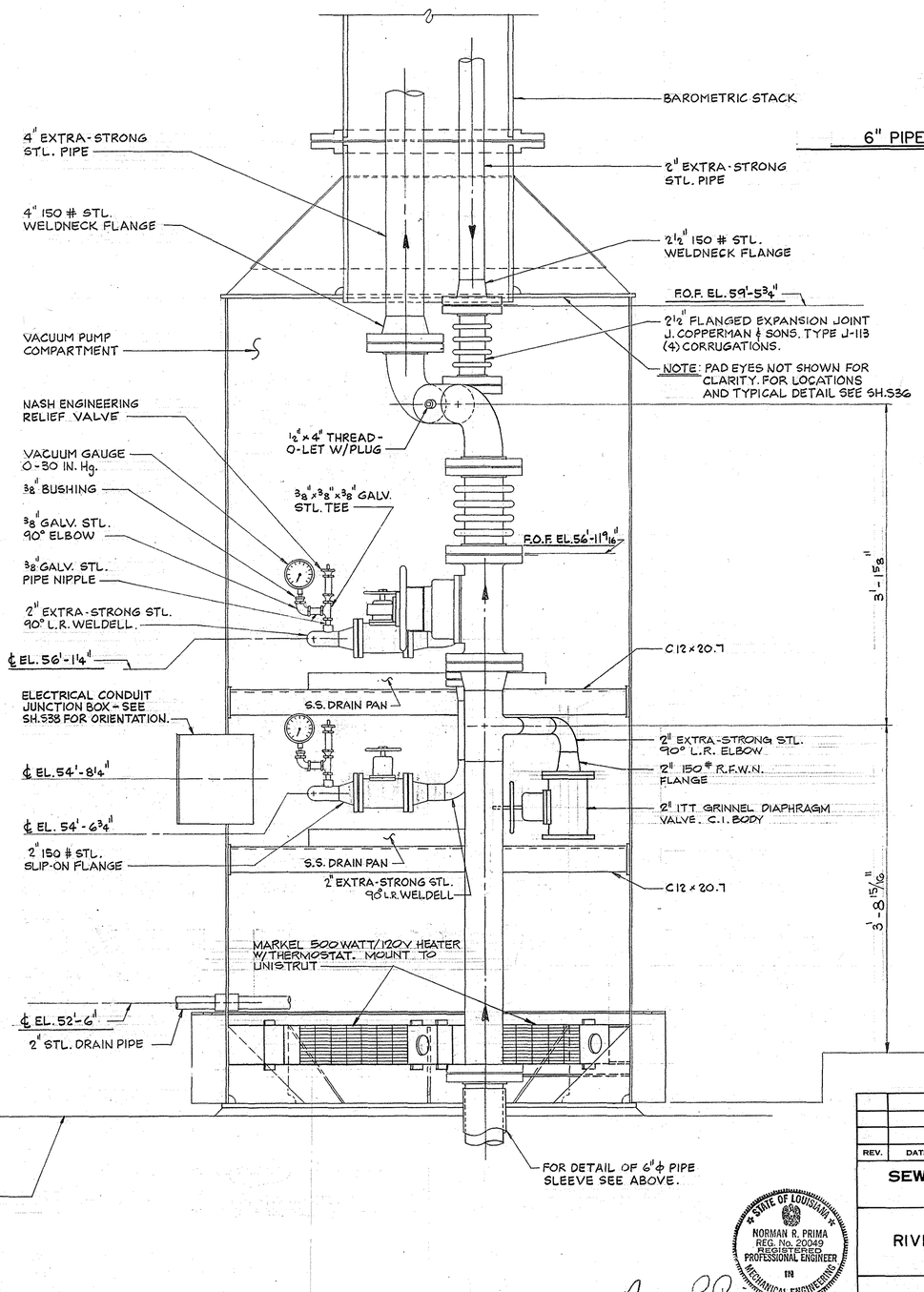
AF 12739

BRUNING 40-22 59857

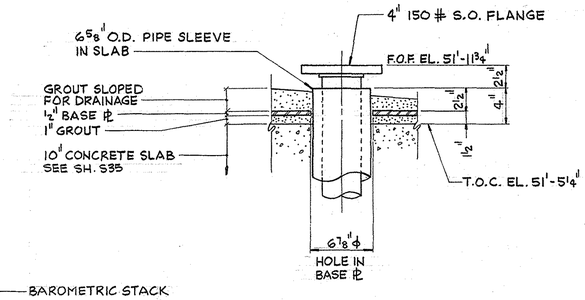
NOTES:
1. VACUUM PUMPS & MOTORS NOT SHOWN FOR CLARITY
2. ½" SEAL WATER PIPING NOT SHOWN FOR CLARITY. SEE PIPING SCHEMATIC ON SHT. S40
3. ALL 1¼" PIPING SHOWN IS STD. PIPE THREADS.
4. ALL GASKETS SHOWN ARE ⅛" RED GUM RUBBER.



ELEVATION OF VACUUM PUMP PIPING
N.T.S.



ELEVATION OF VACUUM PUMP PIPING
N.T.S.



6" PIPE SLEEVE DETAIL
1½" = 1'-0"

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION ELEVATIONS

STATE OF LOUISIANA — NORMAN R. PRIMA REG. No. 20049 REGISTERED PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING

Norman R. Prima

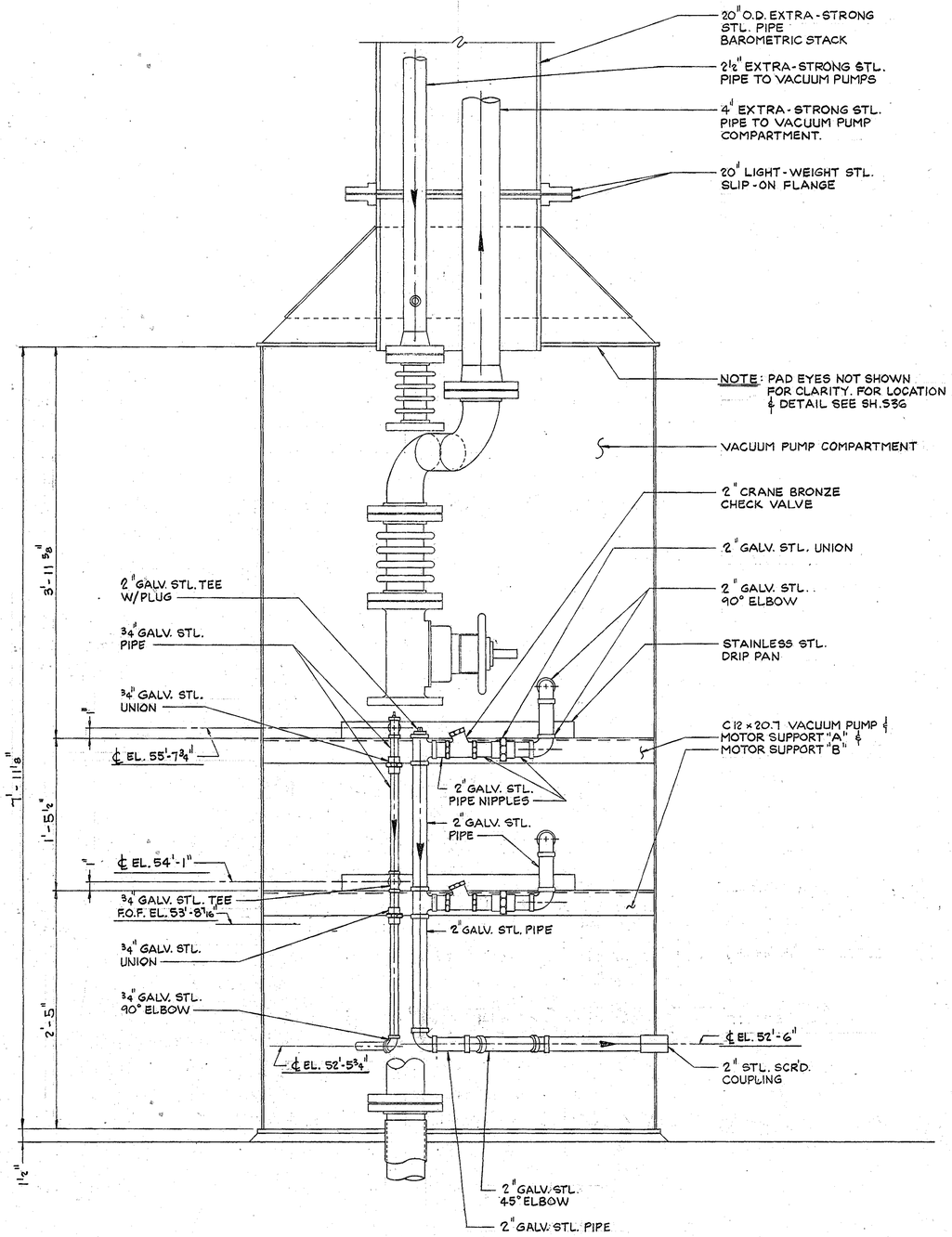
CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. FTE
TRC.
CK. NRP
AP.
SCALE AS NOTED
DATE OCT. 16, 84

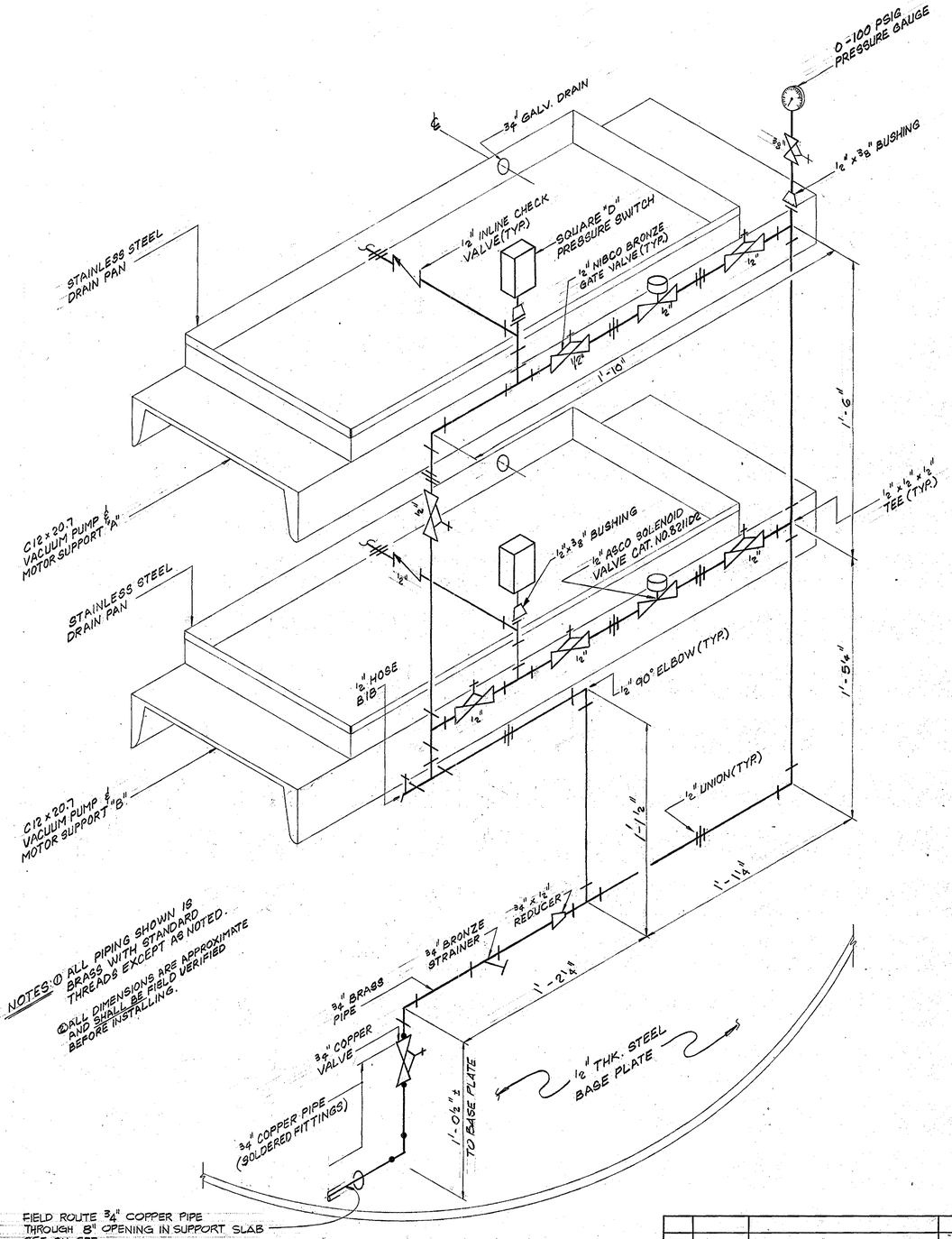
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S 39



ELEVATION OF VACUUM PUMP PIPING

N.T.S.



NOTES: ① ALL PIPING SHOWN IS BRASS WITH STANDARD THREADS & EXCEPT AS NOTED.
② ALL DIMENSIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BEFORE INSTALLING.

VACUUM PUMP SEAL WATER PIPING ISOMETRIC

N.T.S.

REV.	DATE	DESCRIPTION	BY

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

VACUUM PUMP STATION ELEVATION & PIPING ISOMETRIC

STATE OF LOUISIANA
NORMAN R. PRIMA
REG. No. 20049
REGISTERED PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. F.T.E.
TRC.
CK. NRP
AP.
SCALE: AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

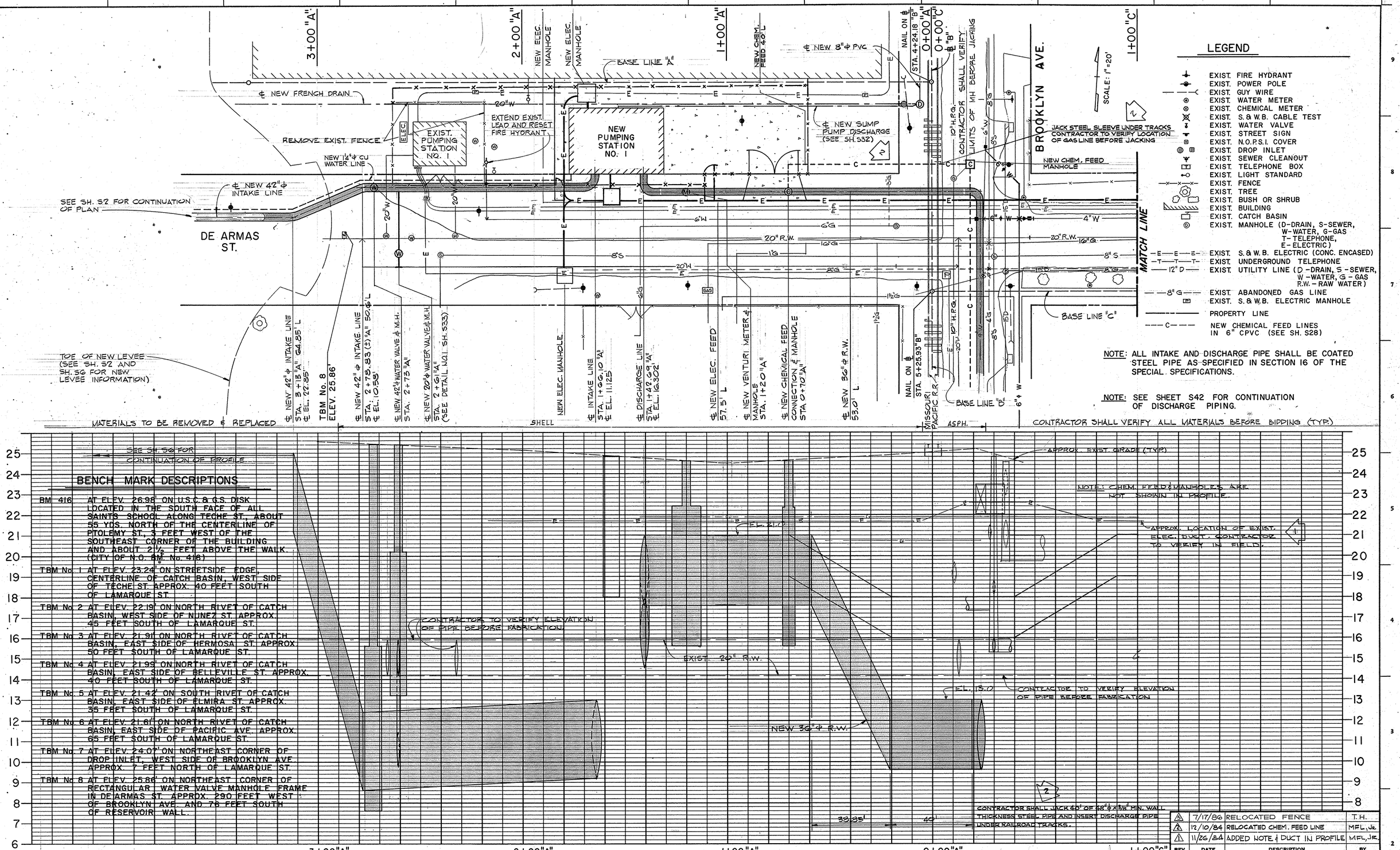
DWG. No. 11540-W-20

SET NO.

SHEET NO. S40

AF 12739

BRUNING 40-22 56957



BENCH MARK DESCRIPTIONS

BM 416 AT ELEV. 26.98' ON U.S.C. & G.S. DISK LOCATED IN THE SOUTH FACE OF ALL SAINTS SCHOOL ALONG TECHE ST., ABOUT 55 YDS. NORTH OF THE CENTERLINE OF PTOLEMY ST., 3 FEET WEST OF THE SOUTHEAST CORNER OF THE BUILDING AND ABOUT 2½ FEET ABOVE THE WALK. (CITY OF N.O. BM No. 416)

TBM No. 1 AT ELEV. 23.24' ON STREETSIDE EDGE, CENTERLINE OF CATCH BASIN, WEST SIDE OF TECHE ST. APPROX. 40 FEET SOUTH OF LAMARQUE ST.

TBM No. 2 AT ELEV. 22.19' ON NORTH RIVET OF CATCH BASIN, WEST SIDE OF NUNEZ ST. APPROX. 45 FEET SOUTH OF LAMARQUE ST.

TBM No. 3 AT ELEV. 21.91' ON NORTH RIVET OF CATCH BASIN, EAST SIDE OF HERMOSA ST. APPROX. 50 FEET SOUTH OF LAMARQUE ST.

TBM No. 4 AT ELEV. 21.99' ON NORTH RIVET OF CATCH BASIN, EAST SIDE OF BELLEVILLE ST. APPROX. 40 FEET SOUTH OF LAMARQUE ST.

TBM No. 5 AT ELEV. 21.42' ON SOUTH RIVET OF CATCH BASIN, EAST SIDE OF ELMIRA ST. APPROX. 35 FEET SOUTH OF LAMARQUE ST.

TBM No. 6 AT ELEV. 21.61' ON NORTH RIVET OF CATCH BASIN, EAST SIDE OF PACIFIC AVE. APPROX. 65 FEET SOUTH OF LAMARQUE ST.

TBM No. 7 AT ELEV. 24.07' ON NORTHEAST CORNER OF DROP INLET, WEST SIDE OF BROOKLYN AVE. APPROX. 7 FEET NORTH OF LAMARQUE ST.

TBM No. 8 AT ELEV. 25.86' ON NORTHEAST CORNER OF RECTANGULAR WATER VALVE MANHOLE FRAME IN DE ARMAS ST. APPROX. 290 FEET WEST OF BROOKLYN AVE. AND 76 FEET SOUTH OF RESERVOIR WALL.

NOTE: CONTRACTOR SHALL VERIFY PLAN LOCATION OF LAMARQUE STREET BOX CULVERT IN A MINIMUM OF FOUR LOCATIONS EVENLY SPACED FROM STATION 11+40 TO 18+70. THIS WORK SHALL BE COORDINATED WITH THE ENGINEER AND WILL BE DONE BEFORE FABRICATION OF THE DISCHARGE PIPE.

NOTE: TOP OF DISCHARGE PIPE ELEVATIONS SHOWN REFER TO TOP OF CONCRETE COATING (TYP.).

REV.	DATE	DESCRIPTION	BY
3	7/17/86	RELOCATED FENCE	T.H.
2	12/10/84	RELOCATED CHEM. FEED LINE	MFL, Jr.
1	11/26/84	ADDED NOTE & DUCT IN PROFILE	MFL, JR.

Metfred F. Lang, Jr. REG. No. 19539 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING — STATE OF LOUISIANA

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE INTAKE & DISCHARGE LINES

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 1984

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20
SET NO.
SHEET NO. S 41

4+00 "B"

REMOVE EXIST. CROSS AND CONNECT NEW SECTION OF 6" Φ W.L. TO EXIST. W/SLEEVE

CUT IN NEW 6"x6"x6" CROSS WITH 6"x4" REDUCER AND SLEEVE

CONTRACTOR TO SET CROSS TO ALLOW APPROPRIATE CONNECTIONS BETWEEN CROSS AND VALVE

℄ NEW 36" Φ R.W. 22.0' L

STA. 4+77.18 "B"

5+00 "B"

NAIL ON ℄ STA. 5+25.93 "B"

BASE LINE "C"

℄ NEW 6" Φ W.L. 42.0' L

DEFLECT NEW CHEM. FEED AROUND MANHOLE

℄ NEW 20" Φ WATER VALVE & M.H. STA. 5+90.0 "B" 16.7' (SEE DETAIL NO2 SH. S33)

6+00 "B"

CONTRACTOR SHALL VERIFY LOCATION OF 6" GAS LINE BEFORE FABRICATION OF DISCHARGE PIPE.

7+00 "B"

REMOVE EXIST. 4" W. FROM NEW TIE-IN TO NEW TIE-IN

NEW CHEM. FEED SHALL PARALLEL NEW DISCHARGE LINE, 5' CENTER TO CENTER

8+00 "B"

℄ NEW 6" Φ WATER LINE STA. 8+52.5 "B" 42.0' L

℄ NEW 36" Φ R.W. 22.5' L STA. 8+52.5 "B"

STA. 8+57.65 "B" BASE LINE "D"

9+00 "B"

45° BEND - 6" CDVC STA. 8+86.8 "B" 3.1' L (2)

CUT IN NEW 6"x6"x6" TEE W/SLEEVES AND TIE NEW 6" LINE INTO EXIST. 6" LINE

10+00 "B"

SCALE: 1" = 20'

NOTE: SEE SHEET S44 FOR CONTINUATION OF DISCHARGE PIPING.

MATCH LINE

BROOKLYN AVE.

BROOKLYN AVE.

DE ARMAS ST.

LAMARQUE ST.

BASE LINE "A"

BASE LINE "B"

NAIL ON ℄ STA. 4+24.18 "B"

TIE NEW 6" WATER LINE TO EXIST. WATER LINE W/45° BEND & SLEEVE STA. 4+56.0 "B"

NEW CHEM. FEED MANHOLE STA. 6+68 "B"

NOTE: NEW CHEMICAL FEED SHALL BE INSTALLED WITH A MINIMUM OF 4' OF COVER.

PULL 4-RG22 TWIN AXIAL CABLES THROUGH ONE SPARE DUCT

NEW CHEM. FEED MANHOLE STA. 8+68 "B" 17.5' L

CUT IN NEW 6"x6"x4" TEE W/SLEEVES AND TIE INTO EXIST. 4" LINE W/SLEEVE

TBM No. 7
ELEV. 24.07'

ASPHALT

MATERIALS TO BE REMOVED & REPLACED

APPROX. LOCATION OF EXIST. ELEC. DUCT AND MANHOLE. CONTRACTOR TO VERIFY IN FIELD.

APPROX. LOCATION OF EXIST. ELEC. DUCT AND MANHOLE. CONTRACTOR TO VERIFY IN FIELD.

CONTRACTOR TO VERIFY PIPE ELEV. BEFORE FABRICATION

EL. 13.0

EL. 20.5

NEW 36" Φ R.W.

EL. 13.0

STA. 8+52.5

APPROX. LOCATION OF EXIST. 20" LINE. CONTRACTOR TO VERIFY IN FIELD BEFORE NEW VALVE INSTALLATION AND FABRICATION.

NOTE: CHEM. FEED MANHOLES ARE NOT SHOWN IN PROFILE.

40'

38.97'

39.33'

10'

4+00 "B" 5+00 "B" 6+00 "B" 7+00 "B" 8+00 "B" 9+00 "B" 10+00 "B"

REV.	DATE	DESCRIPTION	BY
2	12/10/84	RELOCATED CHEM. FEED LINE	MFL, JR.
1	11/26/84	ELEC. DUCT IN PROFILE	MFL, JR.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE DISCHARGE & CHEMICAL LINES

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

SHEET NO. S 42

STATE OF LOUISIANA
Melfonrad F. Lang, Jr.
REG. No. 19539
REGISTERED PROFESSIONAL ENGINEER
IN CIVIL ENGINEERING

BROOKLYN AVE.

MATCH LINE

10+00 "B"

11+00 "B"

12+00 "B"

13+00 "B"

14+00 "B"

NEW CHEM. FEED MANHOLE STA. 10+75.5 "B" CONTRACTOR TO VERIFY LOCATION OF DRAIN AND SEWER BEFORE INSTALLATION OF CHEM. FEED.

NEW CHEM. FEED MANHOLE STA. 12+81.5 "B" 90.15' (LC)

JACK STEEL SLEEVE UNDER TRACKS. CONTRACTOR TO VERIFY LOCATION OF BLDG AND GAS LINES BEFORE JACKING.

BASE LINE "B"

SCALE: 1" = 20'

ELECTRICAL NOTE:

NEW UNDERGROUND CONDUITS FROM EXIST. MANHOLE TO CHEMICAL BLDG. SHALL BE 2" PVC, SCH. 40 ENCASED IN RED CONC. CONDUITS SHALL RISE TO EXPOSED ALUMINUM CONDUIT ABOVE GRADE AND ENTER CHEM. BLDG. THROUGH CORED AND GROUTED HOLES 24" ABOVE GRADE, 48" DOWN RIVER FROM LOWER LEVEL PEDESTRIAN DOOR. INSTALL "LBD" FITTING WHERE CONDUITS PENETRATE WALL. COIL 10' OF EACH RG22 TWIN-AXIAL CABLE INSIDE BLDG. AND SEAL ENDS FOR FUTURE EXTENSION BY OTHERS. ALL CABLES SHALL BE CONTINUOUS FROM THE CHEM. BLDG. TO STATION "C" WITHOUT SPLICES, TAPS OR CONNECTORS.

NOTE: NEW CHEMICAL FEED SHALL BE INSTALLED WITH A MINIMUM OF 4' OF COVER.

PULL 4-RG22 TWIN AXIAL CABLES THROUGH ONE SPARE DUCT

EXIST. ELEC. MANHOLE

SOCRATES ST.

EXIST. CHEM. FEED

NEW CHEM. FEED (PARALLEL EXIST.)

TIE-IN NEW 6" CPVC UNDERGROUND CONDUIT TO CONC. TROUGH AND REPAIR AS REQ'D.

PULL 4-RG22 TWIN AXIAL CABLES IN ONE OF THE NEW 2" CONDUITS. SECOND 2" CONDUIT SHALL BE A SPARE.

2-3" ϕ VACUUM LINES

MATERIALS TO BE REMOVED & REPLACED

ASPHALT

SOD & ASPHALT

30" R.W.

20" R.W.

10" G

8" S

6" G

4" W

4" G

18" D

6" W

PLAN - CHEMICAL FEED BLDG.

1/8" = 1'-0"

RUN ALL FOUR 3¼" ϕ FLEX PIPES LOOSE IN TROUGH BELOW GRATING.

STAIRS

PEDESTRIAN DOOR

COIL UP 25 FT. OF EACH FLEX PIPE HERE FOR FUTURE CHEMICAL PUMP CONNECTIONS BY OTHERS.

SEE S&WB STD. DWG. 6179-F-2 FOR "DETAILS OF WATER MANHOLE CASTING"

EXIST. GRADE

MIN. ONE COURSE OF BRICK

#5@6" O.C. E.W.

BRICK WALLS

PULLING EYES

6" CPVC

6" CPVC

9"

4'-0" SQ.

4' MIN.

#5@6" O.C. E.W.

GRAVEL IN 12" x 12" SUMP

NOTE: ADD TWO #5 BARS FOUR SIDES OF OPENINGS IN MANHOLE SLABS.

NOTE: WATERPROOF MANHOLE WALLS INSIDE & OUT AND INSTALL STEPS ALL IN ACCORDANCE WITH S&WB STANDARDS FOR DRAIN MANHOLES.

CHEMICAL FEED MANHOLE DETAIL

3/8" = 1'-0"

APPROX. LOCATION OF EXIST. ELEC. DUCT. CONTRACTOR TO VERIFY IN FIELD.

CONTRACTOR SHALL JACK 15' OF 16" ϕ STD. STEEL PIPE AT RR CROSSING. INSERT DUCT ASSEMBLY & REINFORCING AND FILL W/CONC.

APPROX. LOCATION OF EXIST. ELEC. DUCT AND MANHOLE. CONTRACTOR TO VERIFY IN FIELD.

CONTRACTOR MUST LOCATE EXIST. UTILITIES BEFORE LAYING NEW DUCT RUN. DEPTH OF NEW DUCT SHALL BE VARIED AS LITTLE AS POSSIBLE. A MINIMUM OF 3' OF COVER SHALL BE MAINTAINED.

10+00 "B" 11+00 "B" 12+00 "B" 13+00 "B" 14+00 "B"

REV.	DATE	DESCRIPTION	BY
2	12/10/84	RELOCATED CHEM. FEED LINE	MFL, JR.
1	11/26/84	ADDED ELEC. DUCT IN PLAN & PROFILE	MFL, JR.

STATE OF LOUISIANA
Meinrad F. Lang, Jr.
REG. No. 19539
REGISTERED PROFESSIONAL ENGR. IN CIVIL ENGINEERING

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE CHEMICAL LINE

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 12, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

SHEET NO. S 43

TBM No. 7
ELEV. 24.07'

STA: 8 + 57.65 "B"

0+00"D"

℄ NEW 36" ϕ R.W. 35.0' R
STA. 0+62.5'

1+00"D"

2+00"D"

3+00"D"

4+00"D"

CROSS CUT ON ℄
STA. 4 + 16.70

℄ NEW 36" ϕ R.W. 35.0' R

5+00"D"

SCALE: 1" = 20'

BASE LINE "D"

LAMARQUE ST.

LAMARQUE ST.

MATCH LINE

BROOKLYN AVE.

TBM No. 1
ELEV. 23.24'

TECHE ST.

ASPHALT

ASPH. ON CONC.

ASPHALT

MATERIALS TO BE REM. & REPLACED

NOTE:
ADJUST OR REPLACE SEWER AND WATER HOUSE CONNECTIONS AS REQ'D. CONTRACTOR SHALL OBTAIN A LIST OF HOUSE CONNECTIONS FROM THE S&WB BEFORE BEGINNING CONSTRUCTION. BEFORE THE DISCHARGE LINE IS FABRICATED THE CONTRACTOR SHALL EXPOSE EACH AFFECTED SEWER HOUSE CONNECTION AT THE SIDEWALK. ELEVATIONS ON EACH CONN. SHALL BE TAKEN TO VERIFY POSITIVE FALL. THIS SHALL BE DONE FOR EACH BLOCK OF NEW DISCHARGE LINE WHERE SINGLE SEWER MAINS EXIST.

APPROX. LOCATION OF EXIST. ELEC. DUCT AND MANHOLE. CONTRACTOR TO VERIFY IN FIELD.

STA. 0+62.5

EL. 5.0

EL. 19.0

EL. 15.0

NEW 36" ϕ R.W.

10' 39.63' 39.63' 80' 39.63'

0+00"D" 1+00"D" 2+00"D" 3+00"D" 4+00"D" 5+00"D"

REV.	DATE	DESCRIPTION	BY
1	11/26/84	ELEC. DUCT IN PROFILE	MFL, JR.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. I, ALGIERS, LOUISIANA

PLAN-PROFILE DISCHARGE LINE

STATE OF LOUISIANA
Meihrad F. Lang, Jr.
REG. No. 19530
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

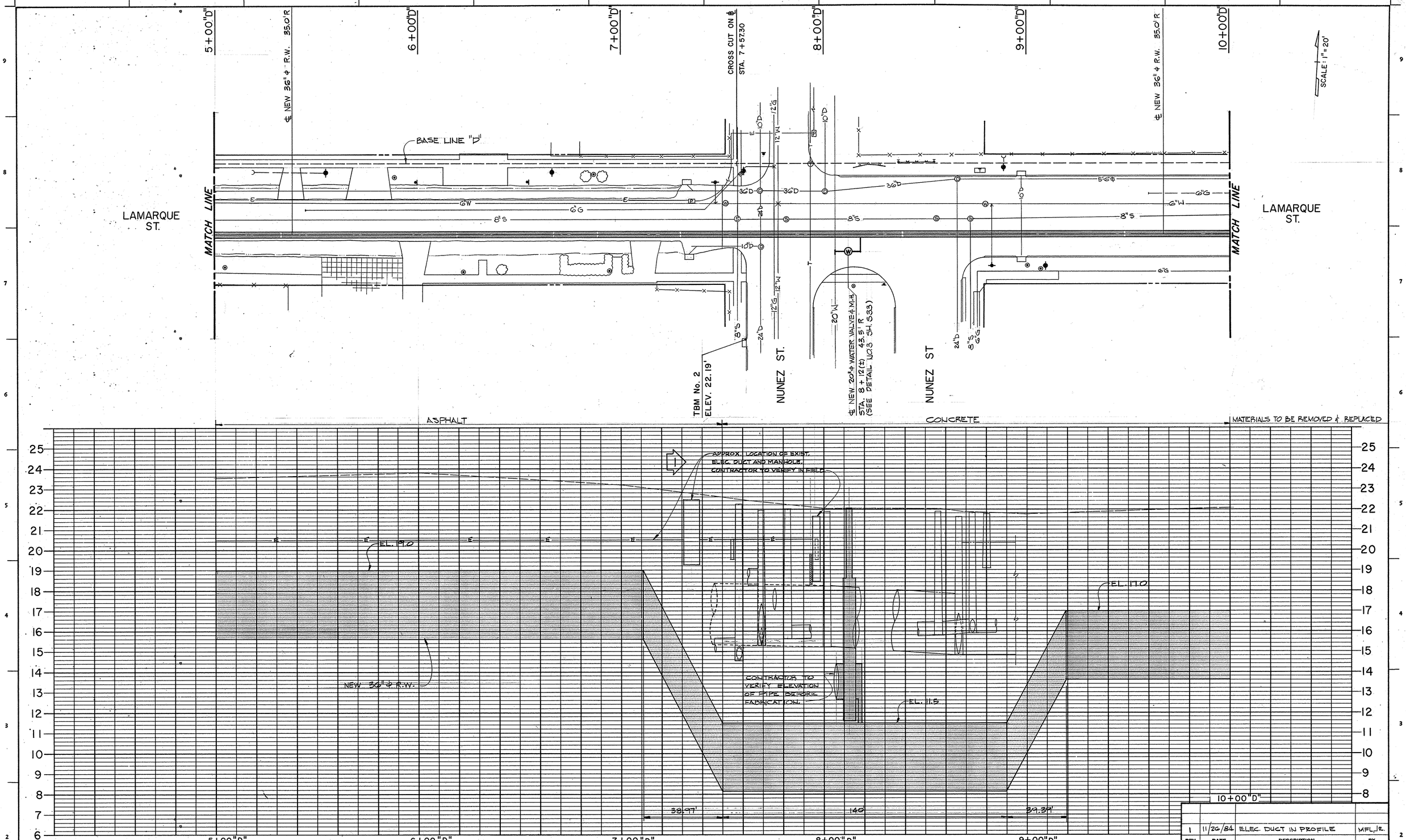
DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

SHEET NO. S 44



REV.	DATE	DESCRIPTION	BY
1	11/20/84	ELEC. DUCT IN PROFILE	MFL,JR.

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE DISCHARGE LINE

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

Mahrad F. Lang, Jr. REG. No. 19 REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING STATE OF LOUISIANA

DR. VPM
TRC.
CK. MFL,JR.
AP.
SCALE AS NOTED
DATE OCT. 16, 84

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 45

10+00"D"

11+00"D"
CROSS CUT ON ℄
STA. 10+98.10

VERRET ST.

STA. 11+47.10
VALLETTE ST.

CROSS CUT ON ℄
STA. 11+75.80

12+00"D"

℄ NEW 36"ϕ R.W. 18.0'R
STA. 11+77.8

13+00"D"

14+00"D"

NOTE: CONTRACTOR SHALL SEE SECTION 5-04 OF THE SPECIAL SPECIFICATIONS FOR SHEETING AND BRACING REQUIREMENTS FOR DISCHARGE PIPE INSTALLATION FROM STA. 11+77.8 TO STA. 18+57.45

℄ NEW 36"ϕ R.W. 22.0'R
STA. 14+56.13

15+00"D"

CROSS CUT ON ℄
STA. 15+03.30

REMOVE & REBUILD EXIST. DRAIN MANHOLES.

PLACE TWO NEW 24"ϕ RCP AT INVERT TO ALLOW MIN. 6' CLEARANCE FROM TOP OF DRAIN TO BOTTOM OF DISCHARGE LINE. BREAK INTO & PATCH EXIST. BOX CULVERT AS REQUIRED.

℄ NEW 36"ϕ R.W. 20.9'R
STA. 16+00.0

16+00"D"

SCALE: 1"= 20'

BASE LINE "D"

LAMARQUE ST.
MATCH LINE

12' BOX CULVERT

LAMARQUE ST.
MATCH LINE

℄ NEW 36"ϕ R.W. 35.0'R
STA. 11+32.01

HERMOSA ST.

TBM No. 3
ELEV. 21.91'

CONC.

ASPH. ON CONC.

6" GAS TO BE OFFSET BY OTHERS.

BELLEVILLE ST.

TBM No. 4
ELEV. 21.99'

CONTRACTOR TO OFFSET 6" WATER LINE AS REQUIRED.

MATERIALS TO BE REMOVED & REPLACED

TELEPHONE DUCT TO BE OFFSET BY OTHERS

EL. 1.10

EL. 1.90

APPROX. LIMITS OF EXIST. 12' BOX CULVERT

STA. 11+32

CONTRACTOR TO VERIFY ELEVATION OF BOTTOM OF BOX BEFORE JACKING FABRICATION.

STA. 11+71.82

NEW 36"ϕ R.W.

39.20' ALONG PIPE

60' ALONG PIPE

CONTRACTOR SHALL JACK THIS SECTION

40'(±)

38.85'

10+00"D" 11+00"D" 12+00"D" 13+00"D" 14+00"D" 15+00"D" 16+00"D"

REV.	DATE	DESCRIPTION	BY

STATE OF LOUISIANA
Meinrad F. Lang, Jr.
REG. No. 19139
REGISTERED PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE DISCHARGE LINE

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 16, 84

A. Joseph Williams
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

SHEET NO. S 46

16+00"D" | 17+00"D" | 18+00"D"

℄ NEW 36" ϕ R.W. 20.9' R
STA. 16+00.0

℄ NEW 36" ϕ R.W. 19.4' R
STA. 18+08.13

CROSS CUT ON ℄
STA. 18+13.40

CROSS CUT ON ℄
STA. 18+56.45

BASE LINE "D"

NOTE: CONTRACTOR SHALL SEE SECTION 5-04 OF THE SPECIAL SPECIFICATIONS FOR SHEETING AND BRACING REQUIREMENTS FOR DISCHARGE PIPE INSTALLATION FROM STA. 11+77.8 TO STA. 18+56.45.

SCALE: 1" = 20'

LAMARQUE ST.

MATCH LINE

LAMARQUE ST.

ELMIRA AVE.

PACIFIC AVE.

TBM No. 5
ELEV. 21.42'

TBM No. 6
ELEV. 21.61'

ASPH. ON CONC.

MATERIALS TO BE REMOVED & REPLACED

CONTRACTOR TO VERIFY ELEVATION OF EXIST. ELECTRICAL DUCT BANK BEFORE FABRICATION.

EL. 19.0

NEW 36" ϕ R.W.

EL. 12.0

NOTE: CONTRACTOR TO VERIFY ELEVATION OF EXIST. PIPES BEFORE FABRICATION.

39.68

16+00"D" | 17+00"D" | 18+00"D"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	CHANGED STATION	VPM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE DISCHARGE LINE

STATE OF LOUISIANA
Milford F. Lang I
REG. No. 1...
PROFESSIONAL ENGR.
CIVIL

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 1984

GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO. | SHEET NO. S 47

ELMIRA AVE.

LAMARQUE ST.

19+00 "D"

20+00 "D"

21+00 "D"

CONTRACTOR SHALL VERIFY LOCATION & ELEVATION OF EXIST. 48" & 6" LINES BEFORE FABRICATION (SEE DETAIL NO4 SH. 533)

℄ NEW 36" Φ R.W. STA. 19+84 5.5' R (SEE DETAIL NO4 SH. 533)

NEW 24" Φ VALVE (SEE DETAIL NO. 4, SH. 533)

℄ NEW 30" Φ VALVE & MANHOLE G STA. 20+56 "D" (SEE DETAIL NO4 SH. 533)

TBM No. 5
ELEV. 21.42'

CROSS CUT ON ℄
STA. 18+13.40

CROSS CUT ON ℄
STA. 18+56.45
℄ NEW 36" Φ R.W.
STA. 18+81.37 9.5' R

℄ NEW 36" Φ R.W.
STA. 19+21 (±) 5.5' R

℄ NEW 24" Φ R.W.
STA. 19+85 11.5 (±)' R

℄ NEW 30" Φ WATER VALVE & M.H.
STA. 19+17.46 16.5' L
(SEE DETAIL NO4 SH. 533)

PLAYGROUND

TIE NEW 24" Φ R.W. TO EXIST. 24" Φ VALVE
STA. 20+19.7 (±) 11.5 (±)' R.
(SEE DETAIL NO 5 SH. 533)

EXIST. 24" Φ R.W.

ROTATE ELBOW AS REQUIRED TO MEET EXIST. VALVE

MATERIALS TO BE REMOVED & REPLACED — SIDEWALK — SOD

SCALE: 1"=20'

APPROX. LOCATION OF EXIST. ELEC. DUCT. CONTRACTOR TO VERIFY IN FIELD.

EL. 19.0

APPROXIMATE LOCATIONS OF EXIST. 24" Φ AND 30" Φ LINES. CONTRACTOR TO VERIFY IN FIELD BEFORE FABRICATION.

43.95

19+00 "D"

20+00 "D"

21+00 "D"

REV.	DATE	DESCRIPTION	BY
2	7/5/85	CHANGED STATIONS	VPM
1	11/20/84	ELEC. DUCT IN PROFILE	MFL, JR.

STATE OF LOUISIANA
Meinrad F. Lang, Jr.
REG. No. 10539
EXPIRES 1985
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SEWERAGE AND WATER BOARD OF NEW ORLEANS

CONSTRUCTION OF NEW RIVER PUMPING STATION NO. 1, ALGIERS, LOUISIANA

PLAN-PROFILE
DISCHARGE LINE

CONTRACT NO. 1113

BERGERON AND LANG
ENGINEERS
METAIRIE, LOUISIANA

DR. VPM
TRC.
CK. MFL, JR.
AP.
SCALE AS NOTED
DATE OCT. 1984

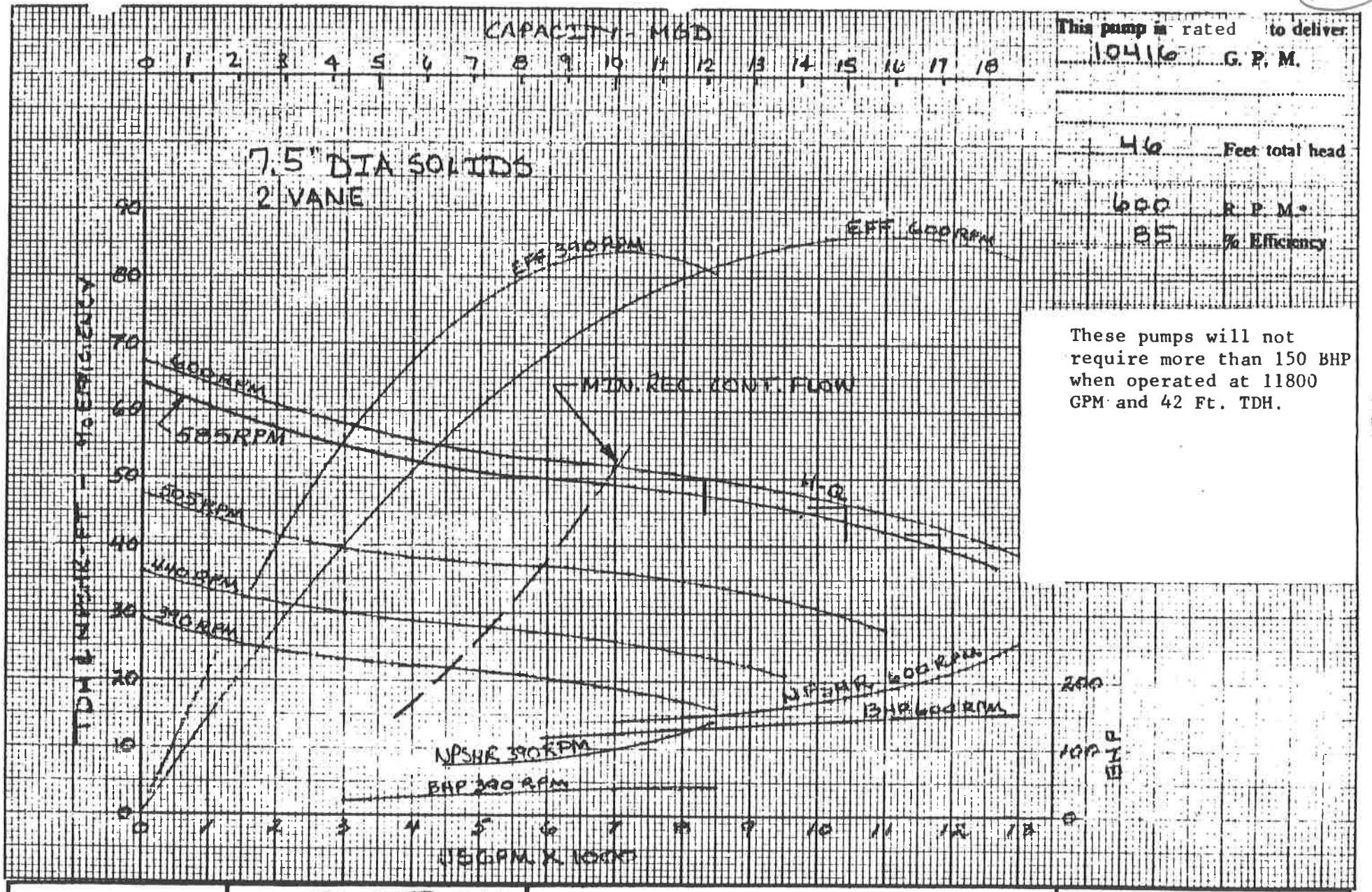
GENERAL SUPERINTENDENT

DWG. No. 11540-W-20

SET NO.

SHEET NO. S 48

(103)



This pump is rated to deliver
10416 G. P. M.

46 Feet total head

600 R. P. M.

85 % Efficiency

These pumps will not require more than 150 BHP when operated at 11800 GPM and 42 Ft. TDH.

Q. No.	SERVICE RAW RIVER WATER	Worthington Group, McGraw-Edison Company	DATE 4-11-85
ORDER NO. ZUS 8347		SIZE AND TYPE 20MN*S24	E REVISED: 11-14-85
DRAWN BY KAL		NEW RIVER PUMP STATION, LA.	225718RR

W-1142 R1

(103)

"General Decision Number: LA20230005 06/30/2023

Superseded General Decision Number: LA20220005

State: Louisiana

Construction Type: Heavy

Counties: Jefferson, Orleans, Plaquemines, St Bernard, St Charles, St James, St John the Baptist and St Tammany Counties in Louisiana.

HEAVY CONSTRUCTION PROJECTS (Includes flood control, water & sewer lines, and water wells. Also includes elevated storage tanks in all listed parishes except Plaquemines and St. James. Excludes industrial construction-chemical processing, power plants, and refineries.)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least $16.20 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2023.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least $12.15 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2023.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at

http://www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/06/2023
1	01/20/2023
2	03/10/2023
3	04/28/2023
4	06/16/2023
5	06/30/2023

CARP0729-001 01/01/2023

	Rates	Fringes
MILLWRIGHT	$ 36.00	13.30

CARP1846-006 07/01/2022

	Rates	Fringes
CARPENTER (formbuilding/formsetting and Piledrivers)	$ 29.09	10.27

ELEC0130-005 12/05/2022

JEFFERSON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES, AND ST. JOHN THE BAPTIST PARISHES

	Rates	Fringes
ELECTRICIAN (including low voltage wiring)	$ 32.75	14.51

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* ELEC1077-002 05/29/2023

ST. TAMMANY PARISH

	Rates	Fringes
ELECTRICIAN (including low voltage wiring)	$ 27.89	3%+9.92

ENGI0406-018 07/01/2009

	Rates	Fringes
OPERATOR: Power Equipment		
Bulldozer	$ 21.26	6.70
Mechanic	$ 23.31	6.70

PLAS0567-003 08/01/2022

JEFFERSON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JOHN THE BAPTIST, and ST. TAMMANY PARISHES

	Rates	Fringes
Cement Mason/Concrete Finisher	$ 30.47	7.97

PLAS0812-003 01/01/2022

ST. JAMES PARISH

	Rates	Fringes
Cement Mason/Concrete Finisher	$ 31.83	5.90

PLUM0060-002 06/05/2023

JEFFERSON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES (Southeastern Portion), ST. JOHN THE BAPTIST, and ST. TAMMANY PARISHES

	Rates	Fringes
Plumbers (excluding pipe laying)	$ 31.70	13.85

PLUM0198-005 12/08/2022

ST. JAMES PARISH (Northwestern Portion)

	Rates	Fringes
PLUMBER (excluding pipe laying)	$ 32.42	16.50

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* SULA2004-007 05/13/2004

	Rates	Fringes
CARPENTER (all other work)	$ 13.75 **	2.60
Laborers:		
Common/Landscape	$ 9.88 **	0.00
Fence	$ 11.24 **	0.00
Flagger	$ 8.58 **	0.00
Mason Tender	$ 7.25 **	0.00
Pipelayer	$ 9.84 **	0.00
PIPEFITTER (excluding pipelaying)	$ 17.52	4.51
Power equipment operators:		
Backhoe/Excavator	$ 14.42 **	0.00
Crane	$ 16.34	3.30
Dragline	$ 16.50	0.00
Front End Loader	$ 13.89 **	0.00
Oiler	$ 10.03 **	0.00
Truck drivers:		
Dump	$ 11.01 **	0.00
Pickup	$ 12.25 **	0.00

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

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** Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 ($16.20) or 13658 ($12.15). Please see the Note at the top of the wage determination for more information.

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

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

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

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and

non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

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

* an existing published wage determination
* a survey underlying a wage determination
* a Wage and Hour Division letter setting forth a position on a wage determination matter
* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

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

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

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

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

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

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

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"