



CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS

Prepared for:

WASTEWATER COLLECTION AND TREATMENT MAINTENANCE/EMERGENCY REPAIRS

PROJECT NO: 2026.17

ST. JOHN THE BAPTIST PARISH, LOUISIANA

July 2026



07-06-26

Prepared By:



DIGITAL ENGINEERING & IMAGING, INC.

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**ST. JOHN THE BAPTIST PARISH
ADVERTISEMENT FOR BIDS
WASTEWATER COLLECTION AND TREATMENT MAINTENANCE
EMERGENCY REPAIRS**

Sealed Bids will be received by St. John the Baptist Parish Purchasing and Procurement Department in St. John the Baptist Parish Government Complex Building, 1811 W. Airline Highway, LaPlace, La. 70068, at the receptionist's desk, or electronically submitted on www.centralbidding.com until **9:45 A.M. Local Time, August 7, 2026.**

Bids shall be addressed to the St. John the Baptist Parish Purchasing and Procurement. Bid envelopes shall be sealed, display the name, address, and Louisiana State Contractor's License Number be clearly marked on the outside of the envelope **"BID 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs."** Any bids received after the specified time and date will not be considered. The sealed bids will be publicly opened and read aloud at **10:00 A.M. Local Time August 7, 2026,** in the St. John the Baptist Parish Government Complex Council Chambers located at 1811 W. Airline Highway, LaPlace, LA 70068.

Bid documents may be viewed on or downloaded from the parish website, www.sjbparish.com; obtained by contacting Peter Montz or Mellissa Levandoske at the above address, phone 985-652-9569, or p.montz@Stjohn-la.gov or m.tassara@Stjohn-la.gov or downloaded and Bids electronically submitted on www.centralbidding.com.

A mandatory Pre-Bid Conference will be held at **1811 W. Airline Highway, LaPlace, LA 70068 on July 30, 2026 at 10:00 A.M. local time.**

Questions and comments regarding this Bid must be submitted in writing to St. John the Baptist Parish, Purchasing & Procurement Department, **ATTN: Peter Montz, 1811 West Airline Highway, LaPlace, LA 70068** or via e-mail to p.montz@Stjohn-la.gov no later than **10:00 A.M. local time on July 31, 2026.**

The Parish reserves the right to accept or reject any and all bid and to waive any irregularities or informalities incidental thereto, and to accept any bid, which the Parish feels serves its best interest. Such action will be in accordance with Title 38 of the Louisiana Revised Statutes.

Any person with disabilities requiring Special Accommodation must contact the St. John the Baptist Parish Council Office at (985) 652-9569 no later than seven (7) days prior to bid opening. Participation by minority and female owned business, as well as businesses located in this Parish, is encouraged.

ST. JOHN THE BAPTIST PARISH COUNCIL

Publish:

July 8, 2026

July 15, 2026

July 22, 2026

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Section 01

Invitation for Bid

Wastewater Collection and Treatment Maintenance Emergency Repairs

SUMMARY OF WORK

The Scope of the contract work is to provide means to perform emergency replacement and repair of existing sewer system lines and structures, other miscellaneous appurtenances and other work incidental thereto to supplement the Parish Utilities Department work crews on day-to-day maintenance and emergency repairs. The project is for high priority jobs dealing with public safety and maintenance of the Parish sewer system and is vital to ensure the citizens of St. John the Baptist Parish have a safe and operational sewer system without unnecessary interruption. These replacements/repairs will be done on an as-needed basis only and no minimum expenditure is guaranteed under this contract. Payment for work performed shall be on a unit price basis. It is intended to issue work orders as needed to perform repairs at various locations in St. John the Baptist Parish.

This contract will be utilized by St. John the Baptist Parish to complete maintenance activities on their sewer system in accordance with the Contract Documents.

This project consists of furnishing all supervision, labor, equipment, materials, and other resources necessary to complete the maintenance work per they pay items indicated the bid form. Contractors submitting bids shall be licensed under LA R.S. 37:2150-2164, Municipal and Public Works Construction.

The BID package includes the following:

1. Public Works Bid Form
2. Bid Bond
3. Corporate Resolution or Certificate of Authority
4. Past Criminal Convictions Attestation*
5. Non-Solicitation and Unemployment Affidavit*
6. Certificate Regarding Debarment*
7. E-Verify Affidavit*
8. Exhibit A – Information for Bidders

*These documents are due to St. John the Baptist Parish within 10 days after bid opening. They are not required to be submitted with the BID.

General Information

1.0 BID PREPARATION

- 1.1 This BID is subject to all applicable state and local laws, including the Louisiana Code of Governmental Ethics.
- 1.2 BID package, associated documents and addenda may be obtained from the design Engineer at Digital Engineering & Imaging, Inc.; 527 West Esplanade Ave., Suite 200; Kenner, LA 70065 or by downloading

from the Parish's website at www.sjbparish.com or Central Bidding at www.centralbidding.com. Electronic BIDS will be accepted only on www.centralbidding.com.

- 1.3 No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally. Written addenda to the BID may be issued to provide clarification, corrections, or to answer questions. Any addenda issued will be emailed to plan holders and posted to the Central Bidding website.
- 1.4 Questions and comments regarding this BID must be submitted in writing to St. John the Baptist Parish, Purchasing & Procurement Department, **ATTN: Peter Montz, 1811 West Airline Highway, LaPlace, LA 70068** or via e-mail to p.montz@stjohn-la.gov no later than **10:00 A.M. Local Time July 31, 2026.**
- 1.5 Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures.
- 1.6 Conditions of Work: Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all materials and labor necessary to carry out the provisions of his contract. Insofar as possible the contractor, in carrying out the work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.
- 1.7 Laws and Regulations: All applicable State laws, municipal ordinances and rules and regulations of authorities having jurisdiction over construction of the project shall apply to the contract throughout and will be deemed to be included in the contract the same as written herein in full.
- 1.8 Subcontractors: The bidder is specifically advised that any person for or other party to whom it is proposed to award a subcontract under this contract must be acceptable to the Owner.
- 1.9 Determination of Unit and Extended Prices: In unit price bids, the total amount bid shall be in the sum of the correct extensions of the unit price bid on each item of work multiplied by the approximate quantity of work shown for the respective item. Each extension shall be carried to one hundredth of a dollar, and the last digit in the extension (or cents' place) shall not be rounded off.
- 1.10 Erasures: The bid submitted must not contain erasures. Any and all interlineations or other corrections shall be suitably authenticated by affixing in the margin immediately opposite the correction the initials of the person or persons signing the bid.
- 1.11 Prices: In the event of a discrepancy between the prices quoted in words and those quoted in figures in the bid, the words shall control. The prices are to include the furnishing of all materials, plant, equipment, tools, and all other facilities, and the performance of all labor and services necessary or proper for the completion of the work except as may be otherwise expressly provided in the contract documents.
- 1.12 Qualifications of Bidder: The Owner may make such investigations deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is responsible and is properly qualified to carry out the obligations of the contract and complete the work contemplated therein. Any conditions placed on a submitted bid shall result in rejection of such bid.

- 1.13 Bid Security: Each bid must be accompanied by cashier's check or certified check of the bidder, or a bid bond, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of 5 percent of the bid made payable to the Owner. Such cashier's checks, certified checks, or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining cashier's checks, certified checks, or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract, or, if no award has been made within 45 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid. Sureties used for obtaining bonds must appear as acceptable on the U.S. Department of the Treasury Circular 570.
- 1.14 Liquidated Damages for Failure to Enter into Contract: The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds within 10 days after he receives notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his bid.

2.0 Submission of BID

- 2.1 Electronic BIDS shall be accepted only on www.centralbidding.com and/or Paper BIDs shall be addressed to St. John the Baptist Parish and delivered to the receptionist located in the St. John the Baptist Parish Government Complex, 1811 West Airline Hwy., LaPlace, LA 70068 no later than **9:45 A.M. local time on August 7, 2026**.
- 2.2 BID package must be submitted in a sealed envelope or package clearly marked with the Bidder's name and address, and **"BID 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs"**.
- 2.3 With the submittal of a Paper BID, please include a copy of the bid on a flash drive.
- 2.4 The Parish will not be responsible for submissions forwarded through the U.S. Postal Service or any delivery service if lost in transit at any time before submission opening, or if hand-delivered to the incorrect location.
- 2.5 BIDs submitted by facsimile (FAX) or e-mail will not be accepted. Any BID received after **9:45 A.M. local time on August 7, 2026** will be deemed unresponsive and will be returned to Company unopened.
- 2.6 Per LA R.S. 38:2212(B)(2), the bidding documents shall require only the following to be submitted by a bidder on a public works project:
- Completed Louisiana Uniform Bid Form
 - Bid Security or Bid Bond
 - Acknowledgement of Addenda
 - Base Bid
 - Alternates
 - Signature of Bidder
 - Name, Title, and Address of Bidder
 - Name of Firm or Joint Venture
 - Corporate Resolution or written evidence of the authority of the person signing the bid
 - Louisiana Contractor's License Number

If the Parish adds any additional requirements for information, unless mandated by State or Federal requirements, they shall be part of the ten day documents submittal package.

3.0 Pre-BID Conference

A mandatory Pre-Bid Conference will be held at **1811 West Airline Highway, LaPlace, LA 70068** on **July 30, 2026 at 10:00 A.M.**

4.0 Opening

BIDs will be opened publicly at **10:00 A.M. local time on August 7, 2026** in the St. John the Baptist Parish Government Building, 1811 W. Airline Highway, LaPlace, LA 70068.

5.0 Public Disclosure

It is understood and agreed upon by the Company in submitting a BID that the Parish has the right to withhold all information regarding this procurement until after contract award, including but not limited to: the number received; competitive technical information; competitive price information; and the Parish's evaluation concerns about competing BIDs. Information releasable after award is subject to the disclosure requirements of the Louisiana Public Records Act. Company specifically waives any claims against Parish related to the disclosure of any materials if made under a public records request.

6.0 Parish Commitment

6.1 The Owner reserves the right to reject any and all bids for just cause; such actions will be in accordance with Title 38 of the Louisiana Revised Statutes. In accordance with R.S. 38:2212 (A)(1)(b), the provisions and requirements stated in the Bidding Documents shall not be waived by any entity.

6.2 The Parish reserves the right to terminate this BID at any time prior to contract execution.

6.3 No prior, current, or post-award verbal conversation or agreement(s) with any officer, agent, or employee of the Parish shall affect or modify any terms or obligations of this BID, or any contract resulting from this procurement.

6.4 The Parish reserves the right to revise any part of the BID by issuing an addendum to the BID at any time in accordance with relevant Louisiana Revised Statutes. Issuance of this BID in no way constitutes a commitment by the Parish to award a contract. The Parish reserves the right to accept or reject, in whole or part, all BIDs submitted, and/or cancel this announcement if it is determined to be in the Parish's best interest. All materials submitted in response to this announcement become the property of the Parish, and selection or rejection of a submittal does not affect this right.

7.0 Late, Modified, or Withdrawn BIDs

7.1 Any BID received after the exact time specified for receipt will not be accepted or opened.

7.2 No modification of a BID will be accepted.

7.3 No bidder may withdraw his/her bid within forty-five (45) days after the actual date of the opening thereof, except as provided under LA. R.S. 38:2214.

8.0 Evaluation and Selection

The Parish Administration will present its recommendation to St. John the Baptist Parish Council for award. This award will be made to the lowest responsive and responsible Bidder. The Parish also reserves the right to reject any and all BIDs.

9.0 Contract Time

The Contract Time will commence at the time specified in such notice to proceed or, if no notice is given, thirty days following the Effective Date of the Agreement with a \$1,000,000 initial cap and a one-year renewal option without price escalation.

10.0 Security for Faithful Performance

Simultaneously with his delivery of the executed contract, the successful bidder shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner. Only those surety companies currently on the U. S. Department of Treasury Financial Management Services list (Circular 570) of approved bonding companies will be accepted. The agent selling the bond must be currently licensed to do business in Louisiana. This will be verified by the Owner.

The successful bidder will be required to file a performance bond in the full amount (100-percent) of the contract price for the full period of the contract and a payment bond in the full amount (100-percent) of the contract price for the full period of the contract.

11.0 Power of Attorney

Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.

12.0 Insurance

Bidder shall obtain, pay for and keep in force, at its own expense, minimum insurance effective in all localities where Consultant/Company may perform the work hereunder, with such carriers as shall be acceptable to Council:

- A. **Statutory Workman's Compensation** covering all state and local requirements and Employer's Liability Insurance covering all persons employed by Consultant/Company in connection with this agreement.

The limits for "A" above shall be not less than:

1. Employer's liability limits of \$1,000,000/\$1,000,000/\$1,000,000
2. Some contracts may require USL&H or maritime coverage. This should be verified with Insurance Department/Legal Dept.
3. No excluded classes of owners/officers or employees shall be allowed on Council's premises.

WAIVER OF SUBROGATION in favor of St. John the Baptist Parish Council should be indicated on certificate.

- B. **Commercial General Liability**, including:

1. Contractual liability assumed by this agreement
2. Owner's and Contractor's Protective Liability (if Contractor is a General Contractor) may be required.
3. Personal and advertising liability
4. Completed operations
5. Medical payments

The limits for "B" above shall not be less than:

1. \$5,000,000 each occurrence limit
2. \$5,000,000 general aggregate limit
3. \$5,000,000 products/completed operations aggregate limit
4. \$1,000,000 personal and advertising injury limit
5. \$50,000 fire damage limit
6. \$5,000 medical expense limit (desirable but not mandatory)

St. John the Baptist Parish Council will be NAMED as additional insured and WAIVER OF SUBROGATION in favor of St. John the Baptist Parish Council should be indicated on certificate.

Some contracts may require Protection and Indemnity coverage. This should be verified with Insurance Department/Legal Dept.

- C. **Comprehensive Automobile Liability** covering all owned, hired and other non-owned vehicles of the Company.

The limits for "C" above shall not be less than:

1. \$500,000 per occurrence for bodily injury and property damage

This insurance shall include for bodily injury and property damage the following coverages:

1. Any automobiles;
2. Owned automobiles;
3. Hired automobiles;
4. Non-owned automobiles.

St. John the Baptist Parish Council will be NAMED as additional insured and WAIVER OF SUBROGATION in favor of St. John the Baptist Parish Council should be included on certificate.

WAIVER OF SUBROGATION in favor of St. John the Baptist Parish Council shall be included on the Certificate.

OTHER SPECIFIC COVERAGE RELATED TO THE TASK BEING PERFORMED MAY BE REQUIRED.

All required insurance certificates shall be submitted to the Director of Purchasing & Procurement prior to commencement of work. Company shall maintain insurance in full force and effect during the entire period of performance of work. All policies must have a thirty (30) day non-cancellation clause giving the Parish thirty (30) days prior written notice in the event a policy is changed or canceled.

- D. **Professional Liability Insurance** covering the Wrongful Acts of those professional firms and individuals performing services for St. John the Baptist Parish. Certain classifications of service providers will be required to provide evidence of Professional Liability Insurance. Examples of these providers include but are not limited to: Professional Engineers, Architects, Land Surveyors, Attorneys, and IT Consultants.

The limits for "D" above shall not be less than: \$1,000,000 CSL

WAIVER OF SUBROGATION in favor of St. John the Baptist Parish Council shall be included on the Certificate.

- ~~E. **Builders All Risk Insurance:** The contractor shall acquire Builders All Risk coverage, which provides all risk coverage for direct physical loss or damage to buildings/contents or structures during the course of construction.~~

- F: Owner's and Contractor's Protective Liability Insurance: Refer to General Conditions Section 5.4.1.7.

13.0 Submittals Required After Bid Opening

Failure of the apparent low bidder to provide the following documentation any later than 10 days after the bid is opened shall be cause to declare the apparent low bidder non-responsive and award the bid to the next lowest bidder. (Pursuant to LA RS 38:2212)

- Past Criminal Convictions of Bidders Attestation
- Non-Solicitation and Unemployment Affidavit
- E-Verify Form
- Certification Regarding Debarment, Suspension, Lobbying, and Other Responsibility Matters

14.0 Invoices / Applications for Payment

Applications for Payment will be processed by St. John the Baptist Parish.

Itemized invoices for payment of these services shall be submitted to the Assistant Director of Utilities for approval prior to routing to Accounts Payable. Construction invoices shall be submitted using the AIA Application and Certification for Payment AIA G702 and AIA G703 forms unless otherwise determined.

St. John the Baptist Parish shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment as recommended by ENGINEER, as provided below. All such payments will be measured by the schedule of values established.

Retainage will NOT be withheld.

Refer to the Contract Documents and provisions under in the General Conditions Article 6 titled "Contractor's Responsibilities" and Article 14 titled "Payments to Contractor and Completion", in addition to any other pertinent provision of the General Conditions, for the requirements associated with the approval of work and completion of all corrective work to the satisfaction of the ENGINEER, submittal and processing of Applications for Payment, and procedures for progress payments and release of final payment, inclusive of CONTRACTOR required deliverables.

15.0 Hold Harmless

To the fullest extent permitted by law, Company shall indemnify, hold harmless, and defend the Parish Council and all of its Agents and Employees, from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of Company.

16.0 Non-Assignability

No Company shall assign any interest in this contract by assignment, transfer, or novation, without prior written consent of the Parish. This provision shall not be construed to prohibit the contractor from assigning his bank, trust company, or other financial institution any money due or to become due from approved contracts without such prior written consent. Notice of any such assignment or transfer shall be furnished promptly to the Parish.

17.0 Exclusions

Pursuant to Louisiana Revised Statute 38:2227, Contractor must certify that he has not been convicted of, or has not entered into a plea of guilty or nolo contendere to public bribery, corrupt influencing, extortion, money laundering or their equivalent Federal crimes. Consultant must further certify that he has not been convicted of, or has not entered into a plea of guilty or nolo contendere to theft, identify theft, theft of a business record, false accounting, issuing worthless checks, bank fraud, forgery; contractors' misapplication of payments, malfeasance in office, or their equivalent Federal crimes within the five (5) years prior to submitting the BID.

18.0 Disclosure

Company must disclose whether it provides services or pays commissions to any employee or elected official of St. John the Baptist Parish. If so, company must disclose to whom services are provided and/or commissions are paid. Both positive and negative responses must be submitted.

19.0 Termination for Cause and Convenience

Bidder acknowledges this contract contains termination provisions including the manner in which termination shall be affected and the basis for settlement. In addition, such provisions shall describe conditions for termination due to fault and for termination due to circumstances outside the bidder's control.

20.0 Severability Clause

If any one or more of the provisions contained in this Agreement shall, for any reasons, be held to be invalid, illegal or unenforceable, in whole or in part, such invalidity, illegality, or unenforceability shall not affect any

other provisions of this Agreement, and in such an event, this Agreement shall be construed as if such invalid, illegal, or unenforceable provisions had never been contained herein.

21.0 Venue

This Agreement shall be governed by the laws of the State of Louisiana. Proper venue for any lawsuit arising under the terms of this Agreement shall be the Fortieth Judicial District Court, St. John the Baptist Parish and any appropriate Appellate therefrom. Bidder hereby agrees and consents to personal and/or in rem jurisdiction of the trial and appropriate Appellate courts.

22.0 Discrimination Clause

The Bidder agrees to abide by the requirements of the following as applicable: Title VI of the Civil Rights Act of 1964 and Title VII of the Civil Rights Act of 1964, as amended by the Equal Employment Opportunity Act of 1972, Federal Executive Order 11246 as amended, the Rehabilitation Act of 1973, as amended, the Vietnam Era Veteran's Readjustment Assistance Act of 1974, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, the Fair Housing Act of 1968 as amended, and Bidder agrees to abide by the requirements of the Americans with Disabilities Act of 1990.

23.0 Suspension and Debarment

(1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

(2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier-covered transaction it enters into.

(3) This certification is a material representation of fact relied upon by the parish. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the PARISH, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

(4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower-tier-covered transactions. a. Standard. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds.

24.0 E-Verify Program

Pursuant to Louisiana Revised Statute 38:2212.10, contractor must certify that it and each individual, firm or corporation associated with it and engaged in the physical performance of services in the State of Louisiana, under a contract with St. John the Baptist Parish has registered with, is participating in, and shall continue to participate in a federal work authorization program designated as such under the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, as amended, which is operated by the United States Department of Homeland Security, known as the "E-Verify" program. Contractor must verify the legal status of all existing and new employees in the State of Louisiana by attesting herein that each is a citizen of the United States or legal aliens as defined by now effective immigration laws of the United States of America.

25.0 Tax Exempt

Pursuant to Louisiana Revised Statute 47:301(8)(c) the St. John the Baptist Parish Government, being a political subdivision, is exempted from sales tax levied by the State. The successful bidder will be issued a Louisiana Department of Revenue form R-1020, designating the Contractor as an agent of St. John the Baptist Parish for the exemption of sales tax.

26.0 Equal Employment Opportunity

During the performance of this contract, the contractor agrees to abide by 41 C.F.R. Part 60-1.4(b).

27.0 Davis Bacon

Not Applicable.

28.0 Copeland Anti-Kickback Act

Not Applicable.

29.0 Contract Work Hours and Safety Standards Act

The regulation at 29 C.F.R. § 5.5(b) provides contract clause language concerning compliance with the Contract Work Hours and Safety Standards Act.

Compliance with the Contract Work Hours and Safety Standards Act.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. The PARISH shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

30.0 Rights to inventions made under a contract or agreement

Not Applicable.

31.0 Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.

2. The contractor agrees to report each violation to the PARISH and understands and agrees that the PARISH will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

32.0 Federal Water Pollution Control Act

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

2. The contractor agrees to report each violation to the PARISH and understands and agrees that the PARISH will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

33.0 Procurement of Recovered Materials

i. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired1. Competitively within a timeframe providing for compliance with the contract performance schedule;

2. Meeting contract performance requirements; or

3. At a reasonable price.

ii. Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>

iii. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act."

34.0 Access to Records

The Contractor agrees to provide the Parish, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts, and transcriptions.

The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.

In compliance with the Disaster Recovery Act of 2018, the Parish and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States

35.0 DHS Seal, Logo and Flags

The contractor shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

36.0 Changes

No additional changes, enhancements, or modifications to any contract resulting from this BID shall be made without the prior approval of PARISH. Any modifications to the provisions of this contract shall be in writing, signed by all parties and approved the required authorities.

Changes to the contract include any change in compensation; beginning/ ending date of the contract; scope of work; and/or Contractor change through the Assignment of Contract process. Any such changes, once approved, will result in the issuance of an amendment to the contract.

Change Orders shall be submitted using the Change Order AIA G701 form unless otherwise determined.

37.0 Compliance with Federal Law, Regulations, and Executive Orders

This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The Contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

38.0 No Obligation by Federal Government

The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

39.0 Program Fraud and False or Fraudulent Statements or Related Acts

The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract.

40.0 Substantial Completion

Substantial Completion shall be granted once the Parish, or its designated design consultant, identifies the project to be at the stage in the progress of the Work when the Work or designated portion thereof is sufficiently complete in accordance with the Contract Documents so that the Owner can occupy or utilize the Work for its intended use. It is the responsibility of the Contractor to notify the Parish, and its designated design consultant, when the Contractor is of the opinion the project is substantially complete. Once determined the Work is identified as substantially complete a Certificate of Substantial Completion AIA G704 or other acceptable will be issued.

41.0. Site Visit: NOT APPLICABLE.

INFORMATION PAGE

Bidder Information Form

Today's Date: _____

Name of Bid: _____

Company Name: _____

Primary Contact Person: _____

Mailing Address: _____

City: _____ **State:** _____ **Zip:** _____

Business Phone: _____

Primary Contact Cell Phone: _____

E-Mail Address: _____

Section 02

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068

(Owner to provide name and address of owner)

BID FOR: St. John the Baptist Parish
2026.17 Wastewater Collection and Treatment
Maintenance Emergency Repairs

(Owner to provide name of project and other identifying information.)

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Digital Engineering & Imaging, Inc. and dated: July 2026.

(Owner to provide name of entity preparing bidding documents.)

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) _____.

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____ Dollars (\$ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars (\$ _____)

Alternate No. 2 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars (\$ _____)

Alternate No. 3 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____ Dollars (\$ _____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER: _____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA UNIFORM PUBLIC WORK BID FORM:

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.

** **A CORPORATE RESOLUTION OR WRITTEN EVIDENCE** of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 6"-10" Gravity Sewer Main (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
1	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 6"-10" Gravity Sewer Main (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
2	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 6"-10" Gravity Sewer Main (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
3	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 6"-10" Gravity Sewer Main (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
4	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 6"-10" Gravity Sewer Main (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
5	50	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 12"-15" Gravity Sewer Main (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
6	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 12"-15" Gravity Sewer Main (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
7	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 12"-15" Gravity Sewer Main (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
8	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 12"-15" Gravity Sewer Main (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
9	100	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 12"-15" Gravity Sewer Main (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
10	50	LF		

DESCRIPTION:	☒ Base Bid or ___ Alt. # ___ Furnish and Install 18"-21" Gravity Sewer Main (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
11	50	LF		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 18"-21" Gravity Sewer Main (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
12	50	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 18"-21" Gravity Sewer Main (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
13	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 18"-21" Gravity Sewer Main (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
14	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 18"-21" Gravity Sewer Main (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
15	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 24"-27" Gravity Sewer Main (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
16	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 24"-27" Gravity Sewer Main (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
17	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 24"-27" Gravity Sewer Main (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
18	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 24"-27" Gravity Sewer Main (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
19	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 24"-27" Gravity Sewer Main (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
20	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 30"-36" Gravity Sewer Main (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
21	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 30"-36" Gravity Sewer Main (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
22	50	LF		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 30"-36" Gravity Sewer Main (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
23	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 30"-36" Gravity Sewer Main (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
24	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Furnish and Install 30"-36" Gravity Sewer Main (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
25	30	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main by Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
26	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main by Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
27	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main by Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
28	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main by Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
29	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main by Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
30	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main Beyond Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
31	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main Beyond Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
32	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 6"-10" Gravity Sewer Main Beyond Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
33	20	LF		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 6"-10" Gravity Sewer Main Beyond Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
34	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 6"-10" Gravity Sewer Main Beyond Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
35	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main by Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
36	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main by Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
37	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main by Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
38	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main by Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
39	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Restore 12"-15" Gravity Sewer Main by Point Repair (Beyond 12' Deep)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
40	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main Beyond Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
41	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Restore 12"-15" Gravity Sewer Main Beyond Point Repair (6' - 8' Deep)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
42	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main Beyond Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
43	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main Beyond Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
44	20	LF		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 12"-15" Gravity Sewer Main Beyond Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
45	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main by Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
46	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main by Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
47	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main by Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
48	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main by Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
49	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main by Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
50	10	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main Beyond Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
51	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main Beyond Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
52	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main Beyond Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
53	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main Beyond Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
54	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 18"-21" Gravity Sewer Main Beyond Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
55	20	LF		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main by Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
56	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main by Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
57	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main by Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
58	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main by Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
59	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main by Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
60	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main Beyond Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
61	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main Beyond Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
62	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main Beyond Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
63	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main Beyond Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
64	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 24"-27" Gravity Sewer Main Beyond Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MLFSURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
65	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main by Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
66	5	EA		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main by Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
67	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main by Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
68	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main by Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
69	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main by Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
70	5	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main Beyond Point Repair (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
71	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main Beyond Point Repair (6' - 8' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
72	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main Beyond Point Repair (8' - 10' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
73	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main Beyond Point Repair (10' - 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
74	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30"-36" Gravity Sewer Main Beyond Point Repair (Beyond 12' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
75	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 4" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
76	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 6" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
77	20	LF		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 8" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
78	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 10" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
79	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 12" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
80	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 14" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
81	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 16" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
82	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 18" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
83	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 20" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
84	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 24" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
85	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install 30" Restrained Joint Force Main Pipe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
86	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 4" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
87	50	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 6" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
88	50	LF		

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UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 8" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
89	50	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 10" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
90	50	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 12" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
91	50	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 14" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
92	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 16" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
93	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 18" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
94	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 20" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
95	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ 24" HDPE Horizontal Directional Drilled Force Main			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
96	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 4" - 8" Force Main Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
97	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 4" - 8" Force Main Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
98	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Restore 4" - 8" Force Main Beyond Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
99	20	LF		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 4" - 8" Force Main Beyond Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
100	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 10" - 14" Force Main Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
101	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 10" - 14" Force Main Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
102	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 10" - 14" Force Main Beyond Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
103	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 10" - 14" Force Main Beyond Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
104	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 16" - 18" Force Main Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
105	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 16" - 18" Force Main Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
106	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 16" - 18" Force Main Beyond Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
107	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 16" - 18" Force Main Beyond Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
108	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 20" - 24" Force Main Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
109	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 20" - 24" Force Main Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
110	1	EA		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 20" - 24" Force Main Beyond Point Repair Any Material (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
111	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 20" - 24" Force Main Beyond Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
112	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30" Force Main Beyond Point Repair Any Material (0'-6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
113	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 30" Force Main Beyond Point Repair Any Material (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
114	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install Ductile Iron Fittings			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
115	2000	LBS		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Welding Repair			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
116	20	FT		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 4" Service Lateral By Point Repair			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
117	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 4" Service Lateral Beyond Point Repair			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
118	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 6" Service Lateral By Point Repair			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
119	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Restore 6" Service Lateral Beyond Point Repair			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
120	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (4"-10")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
121	500	LF		

LOUISIANA UNIFORM PUBLIC WORK BID FORM
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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (12"-15")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
122	500	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (18")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
123	500	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (21"-24")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
124	500	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (27"-30")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
125	500	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Cleaning Sanitary Sewer Lines (36")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
126	500	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of Riser From Sewer Mainline to Service Lateral			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
127	20	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Insertion of Tee for Service Lateral in 6"-12" Sewer Mainlines			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
128	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Insertion of Tee for Service Lateral Above 12" Sewer Mainlines			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
129	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Connection for Service Lateral in Sewer Manhole			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
130	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of New Service Lateral (4") Beyond 10'			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
131	40	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of New Service Lateral (6") Beyond 10'			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
132	40	LF		

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TO: St. John the Baptist Parish
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(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Short Service Connection (0'-30' length) From Sewer Main to Property Line (4")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
133	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Short Service Connection (0'-30' length) From Sewer Main to Property Line (6")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
134	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Medium Service Connection (30'-49' length) From Sewer Main to Property Line (4")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
135	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Medium Service Connection (30'-49' length) From Sewer Main to Property Line (6")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
136	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Long Service Connection (50' or more length) From Sewer Main to Property Line (4")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
137	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Existing Long Service Connection (50' or more length) From Sewer Main to Property Line (6")			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
138	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of 6" Saddle and Install Short Service Lateral (0'-30' Length) from Sewer Main to Property Line			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
139	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of 6" Saddle and Install Medium Service Lateral (30'-49' Length) from Sewer Main to Property Line			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
140	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Installation of 6" Saddle and Install Long Service Lateral (50' or more Length) from Sewer Main to Property Line			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
141	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Internally Trim Protruding Service Connections			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
142	20	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 4" Diameter Emergency Pump Out (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
143	1	EA		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 4" Diameter Emergency Pump Out (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
144	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 6" Diameter Emergency Pump Out (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
145	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 6" Diameter Emergency Pump Out (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
146	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 8" Diameter Emergency Pump Out (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
147	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 8" Diameter Emergency Pump Out (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
148	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 12" Diameter Emergency Pump Out (0' - 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
149	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Install 12" Diameter Emergency Pump Out (Beyond 6' Deep)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
150	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Standard) (Brick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
151	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Standard) (Brick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
152	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter) (Drop) (Brick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
153	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Drop) (Brick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
154	1	VLF		

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UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Standard) (Precast) (Up to 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
155	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Standard) (Precast) (Over 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
156	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Drop) (Precast) (Up to 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
157	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Drop) (Precast) (Over 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
158	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Standard Shallow) (Precast) (Up to 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
159	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Standard) (Fiber Glass) (Up to 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
160	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Standard) (Fiber Glass) (Over 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
161	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 4' Diameter (Drop) (Fiber Glass) (Up to 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
162	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish and Install Sewer Manhole - 6' Diameter (Drop) (Fiber Glass) (Over 6' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
163	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Utility Conflict Manhole (Up to 3' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
164	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Additional Vertical FT HT of Conflict Manhole (Over 3' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
165	1	VLF		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Utility Conflict Box (Up to 5' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
166	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Additional Vertical FT HT of Conflict Box (Over 5' Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
167	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Reset Existing Manhole Rings & Covers			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
168	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Furnish & Install New Manhole Rings & Covers			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
169	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Manhole Adjustment			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
170	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Precast Manhole Wall/Cone			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
171	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Remove and Replace Manhole Wall (Brick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
172	1	VLF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Rehabilitate Manhole Bench/Trough			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
173	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Sewer Debris Disposal Offsite			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
174	100	TON		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Chemical Grout to Fill Voids and Stop Leaks in Structures			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
175	1	GAL		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Sewer Manhole/Wet Well Rehabilitation by Cementitious Lining			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
176	1	SQFT		

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TO: St. John the Baptist Parish
1811 W. Airline Hwy
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(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
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DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Sewer Manhole/Wet Well Rehabilitation by Spray On Epoxy Lining			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
177	1	SQFT		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Sewer Manhole/Wet Well Rehabilitation by Multi-Layered Composite Liner System			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
178	1	SQFT		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Sewer Manhole/Wet Well Rehabilitation by Hybrid Epoxy Liner			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
179	1	SQFT		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Installation of Sewer Cleanout			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
180	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Repair/Adjust Cleanout			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
181	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Air Release Valve Replacement			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
182	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Remove PCC Roadway			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
183	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Place PCC Roadway (7" Thick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
184	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Place PCC Roadway (9" Thick)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
185	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Saw Cut Asphaltic Concrete or PCC (Per Inch Depth)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
186	300	LF/IN		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Remove Asphaltic Concrete Roadway			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
187	200	SY		

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LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Place/Compact 4" Asphaltic Concrete for Temporary Roadway		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
188	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Topping Temporary Asphaltic Concrete Roadway with 2" Wearing Course		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
189	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Place Asphaltic Concrete Roadway		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
190	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Combination Concrete Curb & Gutter (Mountable)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
191	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Combination Concrete Curb & Gutter (Barrier)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
192	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Curb (Mountable)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
193	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Curb (Barrier)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
194	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Driveways (4" Thick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
195	25	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Driveways (6" Thick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
196	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Driveways (6" Thick w/ Wash Gravel to Match)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
197	25	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Driveways (6" Thick w/ Brick to Match)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
198	25	SY		

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UNIT PRICE FORM

TO: St. John the Baptist Parish
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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Concrete Driveways (8" Thick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
199	25	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Stone Driveways (6" Thick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
200	10	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Sidewalks (Concrete) (4" Thick to Match)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
201	100	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Sidewalks (Concrete) (4" Thick w/ Wash Gravel to Match)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
202	25	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Sidewalks (Brick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
203	10	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Sidewalks (Stamped)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
204	10	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Install Handicap Access Ramp at Curb/Street Transition		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
205	50	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Incidental Concrete Paving (Up to 6" Thick)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
206	50	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Remove and Replace Paver Crosswalk		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
207	50	SY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Additional Granular Material		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
208	100	TN		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Additional Granular Material (Labor Only)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
209	10	HR		

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TO: St. John the Baptist Parish
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DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Additional Limestone		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
210	50	TN		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Additional Limestone (Labor Only)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
211	10	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Traffic Control (Flagman)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
212	100	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Traffic Control (Law Enforcement)		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
213	20	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Setup 6" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
214	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Setup 8" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
215	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Setup 10" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
216	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Setup 12" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
217	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Operation of 6" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
218	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Operation of 6" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
219	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Operation of 6" By-Pass Pumping		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
220	1	WK		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 6" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
221	1	MO		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 8" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
222	8	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 8" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
223	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 8" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
224	1	WK		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 8" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
225	1	MO		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 10" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
226	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 10" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
227	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 10" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
228	1	WK		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 10" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
229	1	MO		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 12" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
230	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 12" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
231	1	DAY		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 12" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
232	1	WK		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Operation of 12" By-Pass Pumping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
233	1	MO		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Extension of 6" By-Pass Discharge Force Main Piping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
234	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Extension of 8" By-Pass Discharge Force Main Piping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
235	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Extension of 10" By-Pass Discharge Force Main Piping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
236	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Extension of 12" By-Pass Discharge Force Main Piping			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
237	1	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Exploratory Excavation - Each			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
238	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Exploratory Excavation - Day			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
239	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___	Slab Sodding		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
240	1	SY		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Secure Utility Pole			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
241	1	EA		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ___ Pick-Up Truck - 1/2 Ton			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
242	1	DAY		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Pick-Up Truck 1-Ton			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
243	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Utility Truck			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
244	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Dump Truck - 1 Rear Axle			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
245	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Tandem Axle Dump Truck			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
246	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Welding / Mechanic Truck			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
247	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Welding Truck Complete w/200A Welder and Torch Set			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
248	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Tool Trailer			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
249	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Utility Trailer 6x12 with Ramps Tilt Trailer			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
250	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Backhoe Tractor Loader 1/4 CY			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
251	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Backhoe - CAT 312 Track Excavator			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
252	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Rubber Tire Loader/Backhoe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
253	1	DAY		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 5/8 CY Track Backhoe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
254	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 1 CY Track Backhoe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
255	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 2 CY Track Backhoe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
256	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> 2 CY Rubber Tire Loader/Backhoe			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
257	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Backhoe - D-4 Dozer		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
258	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u>	Vacuum Truck Operation - Daily		
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
259	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Small Gasoline Wacker Plate Approx. 24" x 24"			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
260	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Low Boy			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
261	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Chain Saw			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
262	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> All-Purpose Saw			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
263	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Air Compressor 185 CFM Diesel			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
264	1	DAY		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Welding Machine 300 AMPS			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
265	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Small Tools			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
266	1	DAY		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Foreman			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
267	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Superintendent			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
268	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Laborer			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
269	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Operator			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
270	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Teamster / Truck Driver			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
271	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Carpenter			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
272	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Pipe Layer			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
273	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Pipefitter / Welder			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
274	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or <u> </u> Alt. # <u> </u> Pipefitter / Welder Helper			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
275	1	HR		

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: St. John the Baptist Parish
1811 W. Airline Hwy
Laplace, LA 70068
(Owner to provide name and address of owner)

BID FOR: 2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs
(Owner to provide name and address of owner)

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Electrician			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
276	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Mechanic			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
277	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Additional Temporary Steel Sheeting, Bracing, and Foundation Lumber			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
278	1	MFBF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Additional Temporary Steel Sheeting			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
279	1	SQFT		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Left in Place Steel Sheeting & Bracing			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
280	1	SQFT		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Emergency Smoke Testing			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
281	300	LF		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Surveying Services			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
282	1	HR		

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ Unforeseen Work (THIS ITEM IS NOT TO BE PRICED) (This item shall not be included in the Total Bid Price)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
283	1	JOB	----	\$0.00

DESCRIPTION:	<u> x </u> Base Bid or ___ Alt. # ____ "Emergency" Work (THIS ITEM IS NOT TO BE PRICED) (This item shall not be included in the Total Bid Price)			
REF. NO.	QUANTITY	UNIT OF MEASURE	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
284	1	JOB	----	\$0.00

Section 03

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned, _____

as PRINCIPAL, and _____ as SURETY, are hereby held and firmly bound unto **St. John the Baptist Parish** as OWNER in the penal sum of _____ for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, successors and assigns. Signed, this ____ day of _____, 20____.

The condition of the above obligation is such that whereas the PRINCIPAL has submitted to **St. John the Baptist Parish** a certain BID, attached hereto and hereby made a part hereof to enter into a CONTRACT in writing, for **2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs.**

NOW, THEREFORE,

- (a) If said BID shall be rejected, or
- (b) If said BID shall be accepted and the PRINCIPAL shall execute and deliver a CONTRACT in the FORM OF CONTRACT attachment hereto properly completed in accordance with said BID and shall furnish a BOND for faithful performance of said CONTRACT, and for the payment of all persons performing labor and furnishing materials in connection therewith, and shall in all other respects perform the AGREEMENT created by the acceptance of said BID.

Then this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the SURETY for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The SURETY, for value received, hereby stipulates and agrees that the obligations of said SURETY and its BOND shall be in no way impaired or affected by any extension of the time within which the OWNER may accept such BID; and said SURETY does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the PRINCIPAL and the SURETY have hereunto set their hands and seals, and such of them as are corporations have caused their corporate seals to be hereto affixed and to be signed by their proper officers, the day and year first set forth above.

Principal

Witness

By: _____

Surety

Witness

By: _____

IMPORTANT - SURETY companies executing BONDS must appear on the U.S. Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the project is located.

Section 03.1

CORPORATE RESOLUTION

(Corporations must use and submit their form)

1. The named signatory is the same individual authorized to sign pursuant to the contract language in the appearance clause.
2. An officer listed on the Corporation's Secretary of State listing has certified the Corporate Resolution.
3. The corporate resolution shall not be more than one year old.
4. The company properly grants authority to a named individual to sign on behalf of the company (authority granted by a corporation is granted through its board of directors).
5. Document shall be submitted with the submittal.

CERTIFICATE OF AUTHORITY

(LLC must use and submit their form)

1. The named signatory is the same individual authorized to sign pursuant to the contract language in the appearance clause.
2. An officer listed on the LLC's Secretary of State listing has certified the Certificate of Authority.
3. The Certificate of Authority shall not be more than one year old.
4. The Certificate of Authority is notarized.
5. The company properly grants authority to a named individual to sign on behalf of the company.
6. Document shall be submitted with the submittal.

Section 03.2

PAST CRIMINAL CONVICTIONS OF BIDDERS ATTESTATION (LA. R.S. 38:2227)

STATE OF LOUISIANA

PARISH OF _____

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

I, _____, (Appeared) the owner/authorized representative of

Submitter/ Individual / Legal Entity Name

Appeared, as a Bidder on the herein named Project, does hereby attest that:

A. No sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to, any of the following state crimes or equivalent federal crimes:

- (a) Public bribery (R.S. 14:118)
- (b) Corrupt influencing (R.S. 14:120)

- (c) Extortion (R.S. 14:66)
- (d) Money laundering (R.S. 14:230)

B. For five years prior to the project bid date, no sole proprietor or individual partner, incorporator, director, manager, officer, organizer, or member who has a minimum of a ten percent (10%) ownership in the bidding entity named herein, including any silent or dormant owner or manager, has been convicted of, or has entered a plea of guilty or nolo contendere to any of the following state crimes or equivalent federal crimes, during the solicitation or execution of a contract or bid awarded pursuant to the provisions of Chapter 10 of Title 38 of the Louisiana Revised Statutes:

- (a) Theft (R.S. 14:67)
- (b) Identity Theft (R.S. 14:67.16)
- (c) Theft of business record (R.S. 14:67.20)
- (d) False accounting (R.S. 14:70)
- (e) Submitter's misapplication of payments (R.S. 14:202)

- (f) Bank fraud (R.S. 14:71.1)
- (g) Forgery (R.S. 14:72)
- (h) Issuing worthless checks (R.S.14:71)
- (i) Malfeasance in office (R.S. 14:134)

Name of Bidder

Signature of Authorized Signatory of Bidder

Project Name/Number

Title of Authorized Signatory

SUBSCRIBED AND SWORN BEFORE ME ON THIS _____ DAY OF _____, 20_____.

Notary Signature

Printed Notary Name: _____

Notary/Bar Roll Number: _____

My Commission is For/Expires: _____

Section 03.3

**ST. JOHN THE BAPTIST PARISH
NON-SOLICITATION AND UNEMPLOYMENT AFFIDAVIT**
(Pursuant to La. R.S. 38:2224 and La. R.S. 23:1726(B))

STATE OF _____

PARISH/COUNTY OF _____

Before me, the undersigned authority, came and appeared,

I, _____, the owner/authorized representative of

Company/Individual/Legal Entity Name

who, being first duly sworn, depose and state that I personally and as an authorized representative of the above identified legal person executes this continuing affidavit stating that neither the above named Submitter nor a person acting on its behalf, either directly or indirectly, employed, paid, nor promised any gift, consideration or commission to any person or legal entity to procure or assist in procuring this public contract, other than persons regularly employed by Submitter whose services were in the regular course of their duties for Submitter in connection with the construction, alteration or demolition of a public building or project.

The above named Submitter, if awarded, continually affirms that no part of the contract price received by Submitter was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the affiant whose services were in the regular course of their duties for Submitter.

The above named Submitter hereby attests and certifies that it does not have any unpaid assessment or penalty levied against it regarding unemployment compensation and currently does and will continue to properly classify each employee.

_____ Signature of Authorized Signatory	SUBSCRIBED AND SWORN BEFORE ME ON THIS
_____ Printed Name of Signatory	_____ DAY OF _____ 2020.
_____ Title of Authorized Signatory	_____ Notary Signature
_____ Project Name/Number	Printed Notary Name: _____
	Notary/Bar Roll Number: _____
	My Commission is for/expires on: _____

Submitter verifies that Submitter will collect an affidavit in this form from any approved sub-contractor and forward a copy to: Saint John the Baptist Parish, 1811 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days after contracting with its sub-contractor; however, in no instance shall the affidavit be received after commencement of work by the sub-contractor.

Section 03.4

E-VERIFY AFFIDAVIT

STATE OF LOUISIANA

PARISH OF _____

BEFORE ME, the undersigned Notary Public PERSONALLY CAME AND APPEARED,

I, _____, the owner/authorized representative of

Company/Individual/Legal Entity
Name

who hereby personally and as the authorized representative of the above identified legal person executes this affidavit, as the undersigned Company verification of its current and future compliance with L.S.A. R.S. 38:2212.10, stating affirmatively that it and each individual, firm or corporation associated with it and engaged in the physical performance of services in the State of Louisiana, under a contract with St. John the Baptist Parish has registered with, is participating in, and shall continue to participate in a federal work authorization program designated as such under the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, as amended, which is operated by the United States Department of Homeland Security, known as the "E-Verify" program. The Company hereby verifies the legal status of all existing and new employees in the State of Louisiana by attesting herein that each is a citizen of the United States or legal aliens as defined by now effective immigration laws of the United States of America.

Company shall not assign this Contract or any monies due or to become due hereunder, or subcontract any part of the Work without the prior written consent of St. John the Baptist Parish.

Company verifies that the Company will collect an affidavit in this form from any approved subcontractor and forward a copy to: St. John the Baptist Parish, 1801 West Airline Hwy, LaPlace, Louisiana 70068, no later than five business days of contracting with its subcontractor; however, in no instance shall the affidavit be received after commencement of work by the subcontractor.

Signature of Authorized Signatory

Date E-Verify ID Assigned

Printed Name of Signatory

E-Verify ID

Title of Authorized Signatory

SUBSCRIBED AND SWORN BEFORE ME ON THIS THE DAY OF _____, 20____

Notary Signature

Printed Notary Name: _____

Notary/Bar Roll Number: _____

My Commission is For/Expires: _____

Section 03.5

CERTIFICATION REGARDING LOBBYING



Certification Regarding

Debarment, Suspension, and Other Responsibility Matters Primary Covered Transactions

This certification is required by the regulations implementing Executive Order 12549, Debarment and Suspension, 13 CFR Part 145. The regulations were published as Part VII of the May 26, 1988 *Federal Register* (pages 19160-19211). Copies of the regulations are available from local offices of the U. S. Small Business Administration.

- (1) The prospective primary participant certifies to the best of its knowledge and belief that it and its principals:
- (a) Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or
Voluntarily excluded from covered transactions by any Federal department or agency;
 - (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
 - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
 - (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) Terminated for cause of default.
- (2) Where the Prospective primary participant is unable to certify to any of the statements in this Certification, such prospective primary participant shall attach an explanation to this submittal

Business Name: _____

Date _____ By _____
Name and Title of Authorized Representative

Signature of Authorized Representative

INSTRUCTIONS FOR CERTIFICATION

1. By signing and submitting this submittal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the Prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or agency to which this submittal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "participant," "person," "primary covered transaction," "principal," "submittal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or agency to which this submittal is submitted for assistance in obtaining a copy of those regulations (13 CFR Part 145).
6. The prospective primary participant agrees by submitting this submittal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.
7. The prospective primary participant further agrees by submitting this submittal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered transaction, provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the ineligibility of its principals. Each participant may, but is not required to check the Non-Procurement List
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings
10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

Section 03.6
EXHIBIT A
INFORMATION FOR BIDDERS

1. The Owner may reject any and all bids for just cause; such actions will be in accordance with Title 38 of the Louisiana Revised Statutes. Any bid may be withdrawn prior to the above scheduled time for the opening of bids or authorized postponement thereof. Any bid received after the time and date specified shall not be considered. No bidder may withdraw a bid within 45 days after the actual date of the opening thereof except as provided by law.
2. Preparation of Bid: Each bid must be submitted on the prescribed form. All blank spaces for bid prices must be filled in, in ink or typewritten, in both words and figures.
3. Subcontractors: The bidder is specifically advised that any person for or other party to whom it is proposed to award a subcontract under this contract must be acceptable to the Owner.
4. Determination of Unit and Extended Prices: In unit price bids, the total amount bid shall be in the sum of the correct extensions of the unit price bid on each item of work multiplied by the approximate quantity of work shown for the respective item. Each extension shall be carried to one hundredth of a dollar, and the last digit in the extension (or cents' place) shall not be rounded off.
5. Erasures: The bid submitted must not contain erasures. Any and all interlineations or other corrections shall be suitably authenticated by affixing in the margin immediately opposite the correction the initials of the person or persons signing the bid.
6. Prices: In the event of a discrepancy between the prices quoted in words and those quoted in figures in the bid, the words shall control. The prices are to include the furnishing of all materials, plant, equipment, tools, and all other facilities, and the performance of all labor and services necessary or proper for the completion of the work except as may be otherwise expressly provided in the contract documents.
7. Qualifications of Bidder: The Owner may make such investigations deemed necessary to determine the ability of the bidder to perform the work, and the bidder shall furnish to the Owner all such information and data for this purpose as the Owner may request. The Owner reserves the right to reject any bid if the evidence submitted by, or investigation of, such bidder fails to satisfy the Owner that such bidder is responsible and is properly qualified to carry out the obligations of the contract and complete the work contemplated therein. Any conditions placed on a submitted bid shall result in rejection of such bid.

8. Bid Security: Each bid must be accompanied by cashier's check or certified check of the bidder, or a bid bond, duly executed by the bidder as principal and having as surety thereon a surety company approved by the Owner, in the amount of 5 percent of the bid made payable to the Owner. Such cashier's checks, certified checks, or bid bonds will be returned to all except the three lowest bidders within three days after the opening of bids, and the remaining cashier's checks, certified checks, or bid bonds will be returned promptly after the Owner and the accepted bidder have executed the contract, or, if no award has been made within 45 days after the date of the opening of bids, upon demand of the bidder at any time thereafter, so long as he has not been notified of the acceptance of his bid.

Sureties used for obtaining bonds must appear as acceptable on the U.S. Department of the Treasury Circular 570.

9. Liquidated Damages for Failure to Enter into Contract: The successful bidder, upon his failure or refusal to execute and deliver the contract and bonds within 10 days after he receives notice of the acceptance of his bid, shall forfeit to the Owner, as liquidated damages for such failure or refusal, the security deposited with his bid.
10. Time of Completion: The Contract Time will commence at the time specified in the notice to proceed or, if no notice is given, thirty days following the Effective Date of the Agreement with a \$500,000 initial cap and a one-year renewal option without price escalation.
11. Conditions of Work: Each bidder must inform himself fully of the conditions relating to the construction of the project and the employment of labor thereon. Failure to do so will not relieve a successful bidder of his obligation to furnish all materials and labor necessary to carry out the provisions of his contract. Insofar as possible the contractor, in carrying out the work, must employ such methods or means as will not cause any interruption of or interference with the work of any other contractor.
12. Addenda and Interpretations: No interpretation of the meaning of the plans, specifications or other pre-bid documents will be made to any bidder orally.

All questions should be directed to Peter Montz, Director of Purchasing, 985-359-1037 or email: p.montz@stjohn-la.gov. Any and all such interpretations and any supplemental instructions will be in the form of written addenda to the specifications which, if issued, will be emailed to all bidders.

Failure of any bidder to receive any such addendum or interpretation shall not relieve such bidder from any obligation under his bid as submitted. All addenda so issued shall become part of the contract documents.

QUESTIONS AND COMMENTS MUST BE SUBMITTED NO LATER THAN 10:00 A.M. Local Time on July 31, 2026.

13. Security for Faithful Performance: Simultaneously with his delivery of the executed contract, the successful bidder shall furnish a surety bond or bonds as security for faithful performance of this contract and for the payment of all persons performing labor on the project under this contract and furnishing materials in connection with this contract. The surety on such bond or bonds shall be a duly authorized surety company satisfactory to the Owner. Only those surety companies currently on the U. S. Department of Treasury Financial Management Services list (Circular 570) of approved bonding companies will be accepted. The agent selling the bond must be currently licensed to do business in Louisiana. This will be verified by the Owner.

The successful bidder will be required to file a performance bond in the full amount (100-percent) of the contract price for the full period of the contract and a payment bond in the full amount (100-percent) of the contract price for the full period of the contract.

14. Power of Attorney: Attorneys-in-fact who sign bid bonds or contract bonds must file with each bond a certified and effectively dated copy of their power of attorney.
15. Laws and Regulations: The bidder's attention is directed to the fact that all applicable State laws, municipal ordinances and rules and regulations of authorities having jurisdiction over construction of the project shall apply to the contract throughout and will be deemed to be included in the contract the same as written herein in full.
16. Method of Award: The contract, if awarded, will be awarded to the lowest responsive and responsible bidder.
17. Obligation of Bidder: At the time of the opening of bids, each bidder will be presumed to have read and to be thoroughly familiar with the plans and contract documents (including all addenda). The failure or omission of any bidder to examine any form, instrument or document shall in no way relieve any bidder from any obligation with respect to his bid.
18. Hold Harmless: To the fullest extent permitted by law, Company/Consultant shall indemnify, hold harmless, and defend the Parish Council and all of its Agents and Employees, from and against all claims, damages, losses and expenses, including but not limited to attorney's fees, arising out of or resulting from performance of the work, provided that such claim, damage, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than

the work itself) including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of Company.

19. Non-assignability: No Company/Consultant shall assign any interest in this contract by assignment, transfer, or novation, without prior written consent of the Owner. This provision shall not be construed to prohibit the contractor from assigning his bank, trust company, or other financial institution any money due or to become due from approved contracts without such prior written consent. Notice of any such assignment or transfer shall be furnished promptly to the Parish.
20. Exclusions: Pursuant to Louisiana Revised Statute 38:2227, Company must certify that he has not been convicted of or has not entered into a plea of guilty or nolo contendere to public bribery, corrupt influencing, extortion, money laundering or their equivalent Federal crimes. Consultant must further certify that he has not been convicted of or has not entered into a plea of guilty or nolo contendere to theft, identify theft, theft of a business record, false accounting, issuing worthless checks, bank fraud, forgery, contractors' misapplication of payments, malfeasance in office, or their equivalent Federal crimes within the five (5) years prior to submitting the proposal.
21. Disclosure: Company/Consultant must disclose whether it provides services or pays commissions to any employee or elected official of St. John the Baptist Parish. If so, company must disclose to whom services are provided and/or commissions are paid. Both positive and negative responses must be submitted.
22. E-Verify Program: Pursuant to Louisiana Revised Statute 38:2212.10, contractor must certify that it and each individual, firm or corporation associated with it and engaged in the physical performance of services in the State of Louisiana, under a contract with St. John the Baptist Parish has registered with, is participating in, and shall continue to participate in a federal work authorization program designated as such under the Illegal Immigration Reform and Immigrant Responsibility Act of 1996, as amended, which is operated by the United States Department of Homeland Security, known as the "E-Verify" program. Contractor must verify the legal status of all existing and new employees in the State of Louisiana by attesting herein that each is a citizen of the United States or legal aliens as defined by now effective immigration laws of the United States of America.
23. Invoices / Applications for Payments:

Applications for Payment will be processed by St. John the Baptist Parish.

Itemized invoices for payment of these services shall be submitted to the Purchasing and Procurement Director for approval prior to routing to Accounts Payable. Construction invoices shall be submitted using the AIA Application and Certification for Payment AIA G702 and G703 forms unless otherwise determined.

St. John the Baptist Parish shall make progress payments on account of the Contract Price on the basis of CONTRACTOR's Applications for Payment as recommended by the Owner, as provided below. All such payments will be measured by the schedule of values established.

Retainage will NOT be withheld.

Refer to the Contract Documents and provisions under in the General Conditions Article 6 titled "Contractor's Responsibilities" and Article 14 titled "Payments to Contractor and Completion", in addition to any other pertinent provision of the General Conditions, for the requirements associated with the approval of work and completion of all corrective work to the satisfaction of the ENGINEER, submittal and processing of Applications for Payment, and procedures for progress payments and release of final payment, inclusive of CONTRACTOR required deliverables.

24. Insurance: Bidder shall obtain, pay for, and keep in force, at its own expense, minimum insurance effective in all localities where Consultant/Company may perform the work hereunder, with such carriers as shall be acceptable to Council.

Section 04

AGREEMENT

THIS AGREEMENT, made this _____ day of _____, by and between **St. John the Baptist Parish, LA** herein called "Owner," acting herein through its Parish President, Jaclyn Hotard, and _____, herein after called "Contractor."

WITNESSETH: That for and in consideration of the payments and agreements hereinafter mentioned, to be made and performed by the OWNER, the CONTRACTOR hereby agrees with the OWNER to commence and complete the construction described as follows:

2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs

The Scope of the contract work is to provide means to perform emergency replacement and repair of existing sewer system lines and structures, other miscellaneous appurtenances and other work incidental thereto to supplement the Parish Utilities Department work crews on day-to-day maintenance and emergency repairs. The project is for high priority jobs dealing with public safety and maintenance of the Parish sewer system and is vital to ensure the citizens of St. John the Baptist Parish have a safe and operational sewer system without unnecessary interruption. These replacements/repairs will be done on an as-needed basis only and no minimum expenditure is guaranteed under this contract. Payment for work performed shall be on a unit price basis. It is intended to issue work orders as needed to perform repairs at various locations in St. John the Baptist Parish.

Hereinafter called the project, for the not-to-exceed amount of One Million Dollars (\$1,000,000.00) on an as-needed basis from work orders issued by the Utilities Department and all extra work in connection therewith for each work order, under the terms as stated in the specifications and at his/her (its/their) own proper cost and expense to furnish all the materials, supplies, machinery, equipment, tools, superintendence, labor, insurance, and other accessories and services necessary to complete the said work order in accordance with the specifications and contract documents.

The Contract Time will commence at the time specified in the notice to proceed or, if no notice is given, thirty days following the Effective Date of the Agreement with a \$1,000,000 initial cap and a one-year renewal option without price escalation.

The Contractor hereby agrees to perform work under this contract in accordance with the Federal requirements listed within the specifications.

For any portions of the work funded through a FEMA grant, the Contractor hereby agrees to perform those portions of the work under this contract in accordance with the contract terms for FEMA Public Assistance Grant Funded or Assisted Projects for a non-federal entity (State agency or agency of a political subdivision of the State), which is attached as part of this agreement.

The OWNER will pay to the CONTRACTOR, in the amount and at such times as set forth in the GENERAL CONDITIONS, such amounts as required by the CONTRACT DOCUMENTS.

Contractor's performance of its obligations hereunder shall be excused in the event and during the period that such performance is prevented or rendered unsafe by the following: acts of God; acts of war, riot, accident, flood or sabotage; pandemic, unavailability of fuel or power or materials; judicial or governmental laws, regulations, requirements, orders or actions; injunctions or restraining orders which are ultimately determined to have been wrongfully granted; the failure of any governmental body to issue or grant, or the suspension or revocation of, licenses, permits or other approvals or authorizations necessary for the performance of the services contemplated by this agreement; or national defense requirements.

This AGREEMENT shall be binding upon all parties hereto and their respective heirs, executors, administrators, successors, and assigns.

Signatures Follow on the Next Page.

IN WITNESS WHEREOF, the parties hereto have executed or caused to be executed by their duly authorized officials, this AGREEMENT in three (3) copies each of which shall be deemed an original on the date first above written.

OWNER:

St. John the Baptist Parish

ATTEST:

BY

Signature

BY

Signature

Jaclyn Hotard, Parish President

(Printed Name and Title)

(Printed Name and Title)

CONTRACTOR:

ATTEST:

BY

Signature

BY

Signature

(Printed Name and Title)

(Printed Name and Title)

NOTE: Secretary of the Owner should attest. If Contractor is a corporation, Secretary should attest.

Additional Contract Terms for

FEMA Public Assistance Grant Funded or Assisted Projects for a

Non-Federal Entity (State agency or Agency of a Political Subdivision of a State)

(Updated 6/7/2022)

Termination for Cause

Should the Parish determine that the Contractor has failed to comply with the Agreement's terms, the Parish may terminate the Agreement for cause by giving the Contractor written notice specifying the Contractor's failure. If the Parish determines that the failure is not correctable, then the Agreement shall terminate on the date specified in such notice. If the Parish determines that the failure may be corrected, the Parish shall give a deadline for the Contractor to make the correction. If the Parish determines that the failure is not corrected by the deadline, then the Parish may give additional time for the Contractor to make the corrections or the Parish may notify the Contractor of the Agreement termination date.

Termination for Convenience

Either Party may terminate the Agreement at any time without penalty by giving thirty (30) days written notice to the other Party of such termination or negotiating with the Parties regarding a termination date. Contractor shall be entitled to payment for deliverables in progress, to the extent that the work is acceptable.

Contract Provisions Applicable to Projects Fully or Partially Funded by the FEMA Public Assistance Program (Note: All such terms are also applicable to all appropriate subcontractors):

- a. **Equal Employment Opportunity*** — Except as otherwise provided under 41 CFR Part 60, the Contractor and Subcontractors must comply with 41 CFR 60–1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 CFR 12319, 12935, 3 CFR Part, 1964–1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

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

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

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

(2) The Contractor will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The Contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

(4) The Contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Contractor's commitments under this

section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The Contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, as amended, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The Contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the Contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The Contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the Contractor may request the

United States to enter into such litigation to protect the interests of the United States.

- b. *Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708)*** Where applicable, all contracts and subcontracts in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 C.F.R. Part 5).

Compliance with the Contract Work Hours and Safety Standards Act:

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$26 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. FEMA or the State shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be

determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

c. Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended

If the Contract and Subcontracts are in excess of \$150,000, the Contractor and Subcontractors shall comply with all applicable standards, orders, or regulations issued pursuant to the Clean Air Act (42U.S.C. 7401-7671) and the Federal Water Pollution Control Act as amended (33U.S.C. 1251-1387). Violations shall be reported to Owner and the Federal awarding agency and the Regional Office of the Environmental Protection Agency ("EPA").

Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to the Parish and understands and agrees that the Parish will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

Federal Water Pollution Control Act

1. The Contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.

2. The Contractor agrees to report each violation to the Parish and understands and agrees that the Parish will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.

3. The Contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

d. Debarment and Suspension (Executive Orders 12549 and 12689)

A contract award (see 2 C.F.R. § 180.220) shall not be made to parties listed on the government-wide exclusions in the System for Award Management ("SAM"), in accordance with the OMB guidelines at 2 C.F.R Part 180 that implement Executive Orders 12549 (3 C.F.R. part 1986 Comp., p. 189) and 12689 (3 C.F.R. part 1989 Comp., p. 235), "Debarment and Suspension." SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).

(2) The Contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.

(3) This certification is a material representation of fact relied upon by the Parish. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the Parish, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.

(4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or

proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

e. Byrd Anti-Lobbying Amendment (31 U.S.C. 1352)

Contractors who apply or bid for an award of \$100,000 or more shall file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, officer or employee of Congress, or an employee of a Member of Congress in connection with obtaining any Federal contract, grant, or any other award covered by 31 U.S.C. § 1352. Each tier shall also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

Contractor must complete attached Certification.

f. Procurement of Recovered Materials

- i. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - a) Competitively within a timeframe providing for compliance with the contract performance schedule;
 - b) Meeting contract performance requirements; or c)At a reasonable price.
- ii. Information about this requirement, along with the list of EPA- designated items, is available at EPA’s Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
- iii. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act.”

g. Access to Records

The following access to records requirements apply to this contract:

(1) The Contractor agrees to provide the State, Parish, the FEMA Administrator, the Comptroller General of the United States, or any of their authorized representatives access to any books, documents, papers, and records of the Contractor which are directly pertinent to this contract for the purposes of making

audits, examinations, excerpts, and transcriptions.

(2) The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

(3) The Contractor agrees to provide the FEMA Administrator or his authorized representatives access to construction or other work sites pertaining to the work being completed under the contract.

(4) In compliance with the Disaster Recovery Act of 2018, the Parish and the Contractor acknowledge and agree that no language in this contract is intended to prohibit audits or internal reviews by the FEMA Administrator or the Comptroller General of the United States.

h. DHS Seal, Logo, and Flags

The contractor or its subcontractors shall not use the DHS seal(s), logos, crests, or reproductions of flags or likenesses of DHS agency officials without specific FEMA pre-approval.

i. Compliance with Federal Law, Regulations, and Executive Orders

This is an acknowledgement that FEMA financial assistance will be used to fund all or a portion of the contract. The contractor will comply with all applicable Federal law, regulations, executive orders, FEMA policies, procedures, and directives.

j. No Obligation by Federal Government

The Federal Government is not a party to this contract and is not subject to any obligations or liabilities to the non-Federal entity, contractor, or any other party pertaining to any matter resulting from the contract.

k. Program Fraud and False or Fraudulent Statements or Related Acts

The Contractor acknowledges that 31 U.S.C. Chap. 38 (Administrative Remedies for False Claims and Statements) applies to the Contractor's actions pertaining to this contract.

l. §200.322 Domestic preferences for procurements.

(a) As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section

must be included in all subawards including all contracts and purchase orders for work or products under this award.

(b) For purposes of this section:

(1) “Produced in the United States” means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

(2) “Manufactured products” means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

m. Affirmative Socioeconomic Steps.

If subcontracts are to be let, the prime contractor is required to take all necessary steps identified in 2 C.F.R. § 200.321(b)(1)-(5) to ensure that small and minority businesses, women’s business enterprises, and labor surplus area firms are used when possible.

n. License and Delivery of Works Subject to Copyright and Data Rights.

The Contractor grants to the Parish, a paid-up, royalty-free, nonexclusive, irrevocable, worldwide license in data first produced in the performance of this contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, the Contractor will identify 75 See 17 U.S.C. § 102. Contract Provisions Guide 35 such data and grant to the Parish or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, the Contractor will deliver to the Parish data first produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by the Parish.

o. 200.216 Prohibition on certain telecommunications and video surveillance services or equipment.

(a) Recipients and sub recipients are prohibited from obligating or expending loan or grant funds to:

- 1) Procure or obtain;
- 2) Extend or renew a contract to procure or obtain; or
- 3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - i. For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
 - ii. Telecommunications or video surveillance services provided by such entities or using such equipment.
 - iii. Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(b) In implementing the prohibition under Public Law 115-232, section 889, subsection (f), paragraph (1), heads of executive agencies administering loan, grant, or subsidy programs shall prioritize available funding and technical support to assist affected businesses, institutions and organizations as is reasonably necessary for those affected entities to transition from covered communications equipment and services, to procure replacement equipment and services, and to ensure that communications service to users and customers is sustained.

(c) See Public Law 115-232, section 889 for additional information.

(d) See also § 200.471.

p. Copyright and Data Rights

The Contractor grants to the Parish, a paid-up, royalty-free, nonexclusive, irrevocable, worldwide license in data first produced in the performance of this

contract to reproduce, publish, or otherwise use, including prepare derivative works, distribute copies to the public, and perform publicly and display publicly such data. For data required by the contract but not first produced in the performance of this contract, the Contractor will identify such data and grant to the Parish or acquires on its behalf a license of the same scope as for data first produced in the performance of this contract. Data, as used herein, shall include any work subject to copyright under 17 U.S.C. § 102, for example, any written reports or literary works, software and/or source code, music, choreography, pictures or images, graphics, sculptures, videos, motion pictures or other audiovisual works, sound and/or video recordings, and architectural works. Upon or before the completion of this contract, the Contractor will deliver to the Parish data first produced in the performance of this contract and data required by the contract but not first produced in the performance of this contract in formats acceptable by the Parish.

Section 4.1
PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS: that

(Name of Contractor)

(Address of Contractor)

a _____
(Corporation, Partnership, or Individual)

hereinafter called PRINCIPAL and _____
(Name of Surety)

(Address of Surety)

hereinafter called SURETY, are held and firmly bound unto:

St. John the Baptist Parish
(Name of Owner)

1811 W. Airline Hwy, LaPlace, LA 70068
(Address of Owner)

hereinafter called OWNER and unto all persons, firms, and corporations who or which may furnish labor, or who furnish materials to perform as described under the CONTRACT and to their successors and assigns in the total aggregate penal sum of _____ (\$ _____) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION is such that WHEREAS, the PRINCIPAL entered into a certain CONTRACT with the OWNER, dated the _____ day of _____, 20____, a copy of which is hereto attached and made a part hereof for the construction of:

2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs

NOW, THEREFORE, if the PRINCIPAL shall promptly make payment to all persons, firms, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such CONTRACT and any authorized extensions or modification thereof, including all amounts due for materials, equipment and tools, consumed or used in connection with the construction of such WORK, and for all labor cost incurred in such WORK including that by a SUBCONTRACTOR, and to any mechanic or materialman lienholder whether it acquires its lien by operation of State or Federal law; then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, that in all respects this Bond shall be a statutory bond pursuant to LSA-R.S. 38:2241.

PROVIDED, FURTHER, that the said SURETY for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the CONTRACT or to the WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of this CONTRACT or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that it is expressly agreed that this BOND shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the CONTRACT increasing the CONTRACT PRICE, so as to bind the PRINCIPAL and SURETY to the full and faithful performance of the CONTRACT as so amended. The term "Amendment", wherever used in this BOND and whether referring to this BOND, the CONTRACT or the loan documents shall include any alteration, addition, extension or modification of any character whatsoever. PROVIDED FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in three (3) counterparts, each of which shall be deemed an original, this being the _____ day of _____, 20_____.

ATTEST:

(Principal)

(Principal) Secretary

By _____

(Address)

Witness as to Principal

(Address)

Surety

ATTEST:

Witness as to Surety

By _____
Attorney-in-Fact

(Address)

(Address)

NOTE: Date of BOND must not be prior to date of CONTRACT.

If CONTRACTOR is partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

Section 04.2
PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS: that _____

(Name of Contractor)

(Address of Contractor)

a _____
(Corporation, Partnership, or Individual)

hereinafter called PRINCIPAL and _____
(Name of Surety)

(Address of Surety)

hereinafter called SURETY, are held and firmly bound unto:

St. John the Baptist Parish
(Name of Owner)

1811 W. Airline Hwy, LaPlace, LA 70068
(Address of Owner)

hereinafter called OWNER, in the total aggregate sum of _____ (\$ _____) in
lawful money of the United States, for the payment of which sum well and truly to be made, we bind
ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by
these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the PRINCIPAL entered into a certain
CONTRACT with the OWNER, dated the _____ day of _____, 20____, a copy of which is
hereto attached and made a part hereof for the construction of:

2026.17 Wastewater Collection and Treatment Maintenance Emergency Repairs

NOW, THEREFORE, if the PRINCIPAL shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said CONTRACT during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the SURETY and during the warranty periods, express and/or implied, and if the PRINCIPAL shall satisfy all claims and demands incurred under such CONTRACT, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void, otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said SURETY, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the CONTRACT or to WORK to be performed thereunder or the SPECIFICATIONS accompanying same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the CONTRACT or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that it is expressly agreed that the BOND shall be deemed amended automatically and immediately, without formal and separate amendments hereto, upon amendment to the CONTRACT increasing the CONTRACT PRICE, so as to bind the PRINCIPAL and the SURETY to the full and faithful performance of the CONTRACT as so amended. The term "Amendment", wherever used in this BOND, and whether referring to this BOND, the CONTRACT or any of the Contract Documents shall include any alteration, addition, extension, or modification of any character whatsoever.

IN WITNESS WHEREOF, this instrument is executed in three (3) counterparts, each of which shall be deemed an original, this being the _____ day of _____, 20_____.

ATTEST:

(Principal)

(Principal) Secretary

By _____

(Address)

Witness as to Principal

(Address)

Surety

ATTEST:

Witness as to Surety

By _____
Attorney-in-Fact

(Address)

(Address)

NOTE: Date of BOND must not be prior to date of CONTRACT.

If CONTRACTOR is partnership, all partners should execute BOND.

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.

Section 05

GENERAL CONDITIONS

ARTICLE 1 - Definitions

Wherever used in these General Conditions or in the other Contract Documents, the following terms have the meanings indicated which are applicable to both the singular and plural thereof:

Acceptance, Final Acceptance - The formal action by ENGINEER accepting the Work, or a specified part of the work thereof, as being complete in all respects, or the action by ENGINEER to place the equipment/facilities in operation for continuous utilization for their intended purposes.

Agreement - Refers to the written document signed by the OWNER and CONTRACTOR that is the legal instrument binding the parties to the work. The terms "Agreement" and "Contract" are synonymous.

Application for Payment - The form furnished by CONTRACTOR and approved by ENGINEER for requesting progress payments and an affidavit of CONTRACTOR and its Subcontractors that progress payments theretofore received from OWNER on account of the work have been applied by CONTRACTOR and its Subcontractors to discharge in full all of CONTRACTOR'S and its Subcontractors' obligations stated in the prior Application for Payment, and that the accuracy of the progress reported in the Application for Payment to have been completed by CONTRACTOR or its Subcontractors has been verified by CONTRACTOR. The application for Payment should include all supporting documentation as required by the Contract Documents.

Bid - Refer to definition of Proposal Document in Instructions to Bidders.

Bonds - Bid, performance and payment bonds and other instruments of security.

Change Order - A written order to CONTRACTOR in accordance with the Louisiana Bid Law and approved by OWNER authorizing an alteration, deviation, addition, deletion, and/or revision in the Work, or an adjustment in the Contract Price and/or the Contract Time.

Contract Documents - Those documents itemized herein and as may be further itemized in the Supplementary Conditions. The Agreement, Addenda (which pertain to the Contract Documents), CONTRACTOR's Bid (including documentation accompanying the Bid and any post-bid documentation submitted), the bonds, the General Conditions, Special Contract Provisions, the Technical Provisions, the Drawings as the same are more specifically identified in this Agreement, together with all Modifications issued after the execution of this Agreement shall be part of the Contract Documents.

Contract Price - The moneys payable by OWNER to CONTRACTOR under the Contract Documents as stated in the Agreement (subject to the provisions of paragraph 11.9.1 in the case of Unit Price Work).

Contract Time - The number of days (computed as provided in paragraph 17.2) or the date stated in the Agreement for the completion of the Work.

CONTRACTOR - A person, firm or corporation with whom OWNER has entered into the Agreement for the Work designated under the Contract Documents. The term "CONTRACTOR" shall also mean CONTRACTOR or its authorized representative.

Correction Period - The time during which CONTRACTOR must repair defective work or remove defective work from the site and replace it with non-defective work, all at no cost to the OWNER, pursuant to Paragraph 13.12 of the General Conditions.

Day - A calendar day of twenty-four hours measured from midnight to the next midnight.

Defective - An adjective which when modifying the word Work refers to Work that is unsatisfactory, faulty or deficient, or does not conform to the Contract Documents or does not meet the requirements of any inspection, test, referenced standard or approval referred to in the Contract Documents, or has been damaged prior to ENGINEER'S recommendation of final payment (unless responsibility for the protection thereof has been assumed by OWNER at Substantial Completion in accordance with paragraph 14.8 or 14.10).

Drawings - The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by ENGINEER and are referred to in the Contract Documents. The terms "Drawing" and "Plan" are synonymous, and wherever used in the Contract Documents it should be interpreted according to the definition of "Drawings".

Effective date of the Agreement - The date indicated in the Agreement on which it becomes effective, but if no such date is indicated it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

ENGINEER - The individual, firm or corporation named as ENGINEER in the Supplementary Conditions, who will have the rights and authority assigned to the ENGINEER in the Contract Documents. The term "ENGINEER" means the ENGINEER or its authorized representative. The terms "ENGINEER", "DESIGN ENGINEER", "ARCHITECT" and "ENGINEER/ARCHITECT" are synonymous, and wherever used in the Contract Documents they should be interpreted according to the definition of "ENGINEER".

Field Order - A written order issued by ENGINEER to CONTRACTOR on or after the effective date of the agreement requiring a minor change in work not requiring an adjustment in the Contract Price or Contract Time.

General Requirements – refers to these General Conditions. The terms "General Requirements" and "General Conditions" are synonymous.

Laws and Regulations; Laws or Regulations - Laws, rules, regulations, ordinances, codes and/or orders.

Notice of a Proposed Change - A written document issued on or after the effective date of the agreement initiated by a) OWNER requesting that CONTRACTOR figure the potential effect on Contract Price or time of the proposed change described in the Notice, if the proposed change is to be ordered, or b) CONTRACTOR to notify OWNER that in the CONTRACTOR'S opinion a change has been requested in a Field Order, or pursuant to ENGINEER'S approval of a shop drawings, or a written interpretation or clarification (pursuant to paragraph 9.4). A Notice of a Proposed Change shall not constitute an order to change the work, as no change shall be considered ordered until an appropriate change order, or Work Directive Change is executed by OWNER.

Notice of Award - The written notice by OWNER to the apparent successful Bidder stating that upon compliance by the apparent successful Bidder with the conditions precedent enumerated therein, within the time specified, OWNER will sign and deliver the Agreement.

Notice to Proceed - A written notice given by OWNER to CONTRACTOR (with a copy to ENGINEER) fixing the date on which the Contract Time will commence to run and on which CONTRACTOR shall start to perform CONTRACTOR'S obligation under the Contract Documents.

OWNER – St. John the Baptist Parish Government (SJBPG) which includes all Parish Departments, its elected and appointed officials, Agencies, Councils, Boards and Commissions, Districts, their officers, agents, servants and employees, including volunteers.

Operation, Initiation of - A point in time when OWNER initiates use of the entire work under the project for the purposes that it was planned, designed and built, setting forth commencement of the correction period.

Partial Utilization - Placing a portion of the Work in service for the purpose for which it is intended (or a related purpose) before reaching Substantial Completion for all the Work.

Project - The total construction of which the Work to be provided under the Contract Documents may be the whole, or a part as indicated elsewhere in the Contract Documents.

Shop Drawings - All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for CONTRACTOR to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a Supplier and submitted to CONTRACTOR to illustrate material or equipment for some portion of the Work.

Specifications - Those portions of the Contract Documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative details applicable thereto.

Subcontractor - An individual, partnership, corporation, joint venture, or other combination thereof who has a contract with Contractor to perform any part of the work at the site. The term "Subcontractor" shall also mean any individual, partnership, corporation, joint venture, or other combination thereof who has a contract with another Subcontractor to perform any part of the work at the site.

Substantial Completion - The finishing of the Work, or a specified part of the Work, in accordance with the Contract Documents, to the extent that Owner can use or occupy all or the specified part of the Work for the use for which it is intended without any concurrent Work at the site except as required to complete Punch List items with cumulative value under one percent (1%) of the Contract Price. Prerequisites for Substantial Completion include: (a) all systems have been successfully tested and demonstrated by the CONTRACTOR for their intended use, and (b) the Owner receiving all occupancy certifications and approvals from those State and local Public Entities with jurisdiction.

Special or Supplementary Conditions - Section following General Conditions which amends or supplements the General Conditions and is a part of the Contract Documents and is located in the Book of Contract Documents.

Supplier - A manufacturer, fabricator, supplier, distributor, material man or vendor.

Testing, Pre-operational - All field inspections, installation checks, water tests, performance tests, and necessary corrections required of CONTRACTOR to demonstrate that individual components of the work have been properly erected and found to operate in accordance with the Contract Documents, so that they can be utilized continuously for their intended purposes.

Testing, Start-up - A pre-defined trial period required for achieving Substantial Completion during which CONTRACTOR is to operate the work, or a part specified thereof, under actual and simulated operating conditions and performing as defined in the Contract Documents, for the purposes of a) making such minor adjustments and changes as may be found necessary to comply with the requirements of the Contract Documents, and b) to comply with the final test requirements outlined in the Contract Documents.

Underground Facilities - All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities which have been installed underground to furnish any of the following services or materials; electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

Work - Any and all obligations, duties, responsibilities, labor, materials, equipment, temporary facilities, and incidentals, and the furnishing thereof necessary to complete the construction assigned to, or undertaken by CONTRACTOR, pursuant to the Contract Documents. Also, the completed construction or parts thereof required to be provided under the Contract Documents, including all materials, equipment, and supplies incorporated or to be incorporated in the construction.

Work Directive Change - A written directive to CONTRACTOR, issued on or after the Effective Date of the Agreement and signed by OWNER and recommended by ENGINEER, ordering an addition, deletion or revision in the Work, or

responding to differing or unforeseen physical conditions under which the Work is to be performed as provided in paragraph 4.2 or 4.3 or to emergencies under paragraph 6.20. A Work Directive Change may not change the Contract Price or the Contract Time, but is evidence that the parties expect that the change directed or documented by a Work Directive Change will be incorporated in a subsequently issued Change Order following successful negotiations by the parties as to its effect, if any, on the Contract Price or Contract Time as provided in paragraph 10.2.

ARTICLE 2 - Preliminary Matters

2.1 DELIVERY OF BONDS: When CONTRACTOR delivers the executed Agreements to OWNER, CONTRACTOR shall also deliver to OWNER such Bonds as CONTRACTOR may be required to furnish in accordance with paragraph 5.1.

2.2 COPIES OF DOCUMENTS: OWNER shall furnish to CONTRACTOR up to five copies (unless otherwise provided in the Supplementary Conditions) of the Contract Documents as are reasonably necessary for the execution of the Work. Additional copies will be furnished, upon request, at the cost of reproduction.

2.3 COMMENCEMENT OF CONTRACT TIME; NOTICE TO PROCEED: A Notice to Proceed may be given at any time within thirty days after the effective date of the agreement. However, upon mutual written consent by both parties, the notice to proceed may be extended. The Contract Time will commence at the time specified in such notice to proceed or, if no notice is given, thirty days following the Effective Date of the Agreement.

2.4 STARTING THE PROJECT: CONTRACTOR shall start to perform the Work on the date when the Contract Time commences to run, but no Work shall be done at the site prior to the date on which the Contract Time commences to run, except with the written consent of OWNER.

2.5 BEFORE STARTING CONSTRUCTION: Before undertaking each part of the Work, CONTRACTOR shall (a) study and compare the Contract Documents with each other and against manufacturers, representations, (b) verify dimensions and field measurements, (c) coordinate requirements of dependent Work (location, dimensions, access, fit, completeness, class, codes, etc.), and (d) notify ENGINEER in writing of any conflict, error, omission or deviation from manufacturers' recommendations discovered. CONTRACTOR shall be responsible for any delay and all costs resulting from performing any Work before obtaining a written clarification or interpretation from ENGINEER, if CONTRACTOR had actual knowledge, or should have reasonably known that any such Work (a) involves a conflict, error or omission, or (b) is subject to specific method of installation, performance or test procedure or result which is contrary to the recommendation of the corresponding manufacturer. **Contractor shall also be responsible for locating all property lines and right-of-way lines prior to beginning construction.**

2.6 SCHEDULE SUBMITTALS: Within ten days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), CONTRACTOR shall submit four copies of the following schedules to ENGINEER for review:

2.6.1 An estimated progress schedule indicating the starting and completion dates of the various stages of the Work in accordance with the Contract Documents.

2.6.2 A preliminary schedule of Shop Drawing submissions.

2.6.3 A preliminary schedule of values for all of the Work which will include quantities and prices of items aggregating the Contract Price and will subdivide the Work into component parts in sufficient detail to serve as the basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work which will be confirmed in writing by CONTRACTOR at the time of submission. The Schedule of

Values will be organized along the Divisions, and sub-divisions, of the Technical Specifications.

2.7 INSURANCE CERTIFICATES: Before any Work at the site is started, CONTRACTOR shall deliver to OWNER, with a copy of ENGINEER, certificates (and other evidence of insurance requested by OWNER) which CONTRACTOR is required to purchase and maintain in accordance with paragraphs 5.4, 5.5, and 5.6. Certificates of Insurance must be accompanied by a letter from the Contractor's Insurance Agent certifying that the insurance being provided meets the limits and requirements of the specifications. An explanation of any abbreviations used on the certificates must also be provided.

2.8 PRE-CONSTRUCTION CONFERENCE: Within twenty days after the effective date of the Agreement, but before CONTRACTOR starts the Work at the site, a conference attended by CONTRACTOR, ENGINEER and others as appropriate will be held to discuss the schedules referred to in paragraph 2.6, to discuss procedures for handling Shop Drawings and other submittals and for processing Applications for Payment, and to establish a working understanding among the parties as to the Work.

2.9 FINALIZING SCHEDULES: At least ten days before submission of the first Application for Payment a conference attended by CONTRACTOR, ENGINEER and others as appropriate will be held to finalize the schedules submitted in accordance with paragraph 2.6. The finalized progress schedule will be acceptable to ENGINEER as providing an orderly progression of the Work to completion within the Contract Time, but such acceptance will neither impose on ENGINEER responsibility for the progress or scheduling of the Work nor relieve CONTRACTOR from full responsibility therefore. The finalized schedule of Shop Drawing submissions will be acceptable to ENGINEER as providing a workable arrangement for processing the submissions. The finalized schedule of values will be acceptable to ENGINEER as to form and substance.

ARTICLE 3 - Contract Documents; Intent, Amending, Re-use

3.1 INTENT: The Contract Documents comprise the entire Agreement between OWNER and CONTRACTOR concerning the Work. The Contract Documents are complementary; what is called for by one is binding as if called for by all. The Contract Documents will be construed in accordance with the law of the place of the Project.

3.2 FUNCTIONALLY COMPLETE PROJECT: It is the intent of the Contract Documents to describe a functionally complete Project (or part thereof) to be constructed in accordance with the Contract Documents. Any Work, materials or equipment that may reasonably be inferred from the Contract Documents as being required to produce the intended result will be supplied whether or not specifically called for. When words which have a well known technical or trade meaning are used to describe Work, materials or equipment such words shall be interpreted in accordance with such meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the Laws or Regulations of any governmental authority, whether such reference be specific or be implication, shall mean the latest standard specifications, manual, code or Laws or Regulations in effect at the time of opening of Bids (or, on the effective date of the Agreement if there were no Bids), even though reference may be specifically made to an earlier standard. However, no provision of any referenced standard specifications, manual or code (whether or not specifically incorporated by reference in the Contract Documents) shall be effective to change the duties and responsibilities of OWNER, CONTRACTOR or ENGINEER, or any of their consultants, agents or employees from those set forth in the Contract Documents, nor shall it be effective to assign to ENGINEER, or any of ENGINEER'S consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of subparagraph 9.13.3 or 9.13.4. Clarifications and interpretations of the Contract Documents shall be issued by ENGINEER as provided for in paragraph 9.4. In the event of any conflict between any of these standard specifications, manuals, or codes and any Divisions of the Book of Technical Specifications, the latter requirements shall be binding on Contractor. In the event that two or more standard specifications, manuals, or codes conflict with one another, the requirement ultimately enforced shall be binding on CONTRACTOR. In this event it will be considered that the higher cost requirement has been considered in the

CONTRACTOR'S Bid Proposal and the CONTRACTOR further agrees and acknowledges that compliance with this condition shall not warrant an increase in Contract Price nor Contract Time.

3.3 CONFLICT IN CONTRACT DOCUMENTS: If, during the performance of the Work, CONTRACTOR finds a conflict, error or discrepancy in the Contract Documents, CONTRACTOR shall so report to ENGINEER in writing at once and before proceeding with the Work affected thereby shall obtain a written interpretation or clarification from ENGINEER; however, CONTRACTOR shall not be liable to OWNER or ENGINEER for failure to report any conflict, error or discrepancy in the Contract Documents unless CONTRACTOR had actual knowledge thereof or should reasonably have known thereof. Until interpretation, clarification or instruction is obtained from ENGINEER, any work done by CONTRACTOR (or Subcontractors) after the discovery of such a conflict, error, or discrepancy, which is directly or indirectly affected by same, will be at his own risk and he shall bear all cost arising therefrom.

3.4 AMENDING AND SUPPLEMENTING CONTRACT DOCUMENTS: The Contract Documents may be amended to provide for additions, deletions and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways:

3.4.1 A Change Order (pursuant to paragraph 10.4), or

As indicated in paragraphs 11.2 and 12.1, Contract Price and Contract Time may only be changed by a Change Order.

3.5 WORK DIRECTIVE CHANGE: In addition, the requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by a Work Directive Change required by one or more of the following actions:

3.5.1 A Field Order (pursuant to paragraph 9.5 and 10.7)

3.5.2 ENGINEER'S approval of a Shop Drawing or sample (pursuant to paragraphs 6.24), or

3.5.3 ENGINEER'S written interpretation or clarifications (pursuant to paragraph 9.4)

3.6 RE-USE OF DOCUMENTS: Neither CONTRACTOR nor any Subcontractor or Supplier or other person or organization performing or furnishing any of the Work under a direct or indirect contract with OWNER shall have or acquire any title to or ownership rights in any of the Drawings, Specifications or other documents (or copies of any thereof) prepared by or bearing the seal of ENGINEER; and they shall not re-use any of them on extensions of the Project or any other project without written consent of OWNER and ENGINEER and specific written verification or adaptation by ENGINEER.

3.7 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS:

3.7.1 All figures and dimensions on the drawings and specifications shall be carefully checked by CONTRACTOR, who shall note all conflicts, errors, or discrepancies. CONTRACTOR will be held responsible for any conflict, error, or discrepancy not discovered before the work is executed, unless contractor could not have reasonably known about the conflict, error, or discrepancy. CONTRACTOR shall promptly notify ENGINEER in writing of any discrepancies, errors, or omissions discovered in review of the Contract Documents. ENGINEER will promptly investigate the matter and respond to CONTRACTOR.

3.7.2 In all cases, figured dimensions shall govern over scaled dimensions, but work not dimensioned shall be as directed, and work not particularly shown, identified, sized, or located shall be the same as similar parts that are shown or specified. Further, detail drawings shall govern over general drawings, larger scale details take precedence over smaller scale drawings, change order drawings govern over contract drawings, and contract drawings over shop drawings. Specifications shall govern as to products, execution and workmanship, and drawings shall govern as to locations, dimensions, or quantities to be furnished. Further, in all cases where specifications, notes or details in two drawings conflict, the more restrictive requirement as to quantities, product, execution, workmanship, or performance shall be binding on CONTRACTOR, unless otherwise directed by OWNER.

3.7.3 After the Agreement date, CONTRACTOR shall be furnished with a maximum number of five (5) sets of Plans, Specifications and Addenda in addition to those CONTRACTORS purchased during the bid period. Additional Specifications or Drawings requested by CONTRACTOR will be provided in complete sets and at the expense of CONTRACTOR.

ARTICLE 4 - Availability of Lands; Physical Conditions Reference Points (NOT USED)

ARTICLE 5 - Bonds and Insurance

5.0 ST. JOHN THE BAPTIST PARISH GOVERNMENT, DEFINED.

For the purposes of this Article, the terms "St. John the Baptist Parish Government," "SJBP," and "OWNER" shall include, but may not be limited to, all of the following entities and persons: the St. John the Baptist Parish Government (a political subdivision of the State of Louisiana); the St. John the Baptist Parish Council (the governing body of St. John the Baptist Parish); their elected and appointed officials, all parish departments, districts, agencies, councils, boards, and commissions, officers, agents, servants, employees and volunteers; and the elected and appointed officials, departments, officers, agents, servants, employees and volunteers of those departments, districts, agencies, councils, boards, and commissions.

5.1 PERFORMANCE AND OTHER BONDS

5.1.1 Unless otherwise provided for in the Louisiana Public Bid Law, CONTRACTOR shall furnish performance and payment Bonds, each in an amount at least equal to the Contract Price as security for the faithful performance and payment of all CONTRACTOR'S obligations under the Contract Documents. These Bonds shall remain in effect at least until one year after the date of final payment, except as otherwise provided by Law or Regulation or by the Contract Documents. CONTRACTOR shall also furnish such other Bonds when required by the Supplementary Conditions. All Bonds shall be in the forms prescribed by Law or Regulation or by the Contract Documents and be executed by such Sureties as are named in the current list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Audit Staff Bureau of Accounts, U.S. Treasury Department. All Bonds signed by an agent must be accompanied by a certified copy of such agent's authority.

Any bond prescribed by the contract documents shall be written by a surety or insurance company currently on the U.S. Department of the Treasury Financial Management Service list of approved bonding companies which is published annually in the federal Register, or by a Louisiana domiciled insurance company currently possessing a rating of no less than A- in the latest printing of the A.M. Best's Key Rating Guide, to write individual bonds up to the percent of policyholders' surplus as shown in the A.M. Best's Key Rating Guide.

In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed and approved to do business in the state of Louisiana.

For any public works project, no surety or insurance company shall write a bond which is in excess of the amount indicated as approved by the U.S. Department of the Treasury Financial Management Service list or by a Louisiana domiciled insurance company with an A- rating by A.M. Best up to a limit of ten percent of policyholders' surplus as shown by A.M. Best; companies authorized by this Paragraph who are not on the treasury list shall not write a bond when the penalty exceeds fifteen percent of its capital and surplus, such capital and surplus in the amount by which the company's assets exceed its liabilities as reflected by the most recent financial statements filed by the company with the Department of Insurance.

5.1.2 If the Surety on any Bond or any insurance company providing any insurance overages furnished by CONTRACTOR is declared bankrupt, becomes insolvent, or its right to do business is terminated in any state where any part of the Project is located, or it ceases to meet the requirements of this Article, CONTRACTOR

shall within five (5) days thereafter, substitute another Bond and Surety and/or insurance company, both of which shall be acceptable to OWNER. The OWNER reserves the right to mandate the cessation of all work on the Project until the receipt of evidence of acceptable replacement Bonds and/or insurance.

- 5.1.3 If, at any time during the Contract Period, the CONTRACTOR fails to provide satisfactory evidence of all Bond and insurance requirements or fails to take all corrective action required by the OWNER, the OWNER reserves the right to mandate the cessation of all work on the Project until receipt of acceptable evidence of Bonds and insurance and/or corrective action undertaken.

5.2 INDEMNIFICATION AGREEMENT

To the fullest extent permitted by law, the CONTRACTOR shall protect, defend, indemnify, save and hold harmless the OWNER from and against any and all claims, demands, expense, losses, suits, costs, actions, fines, penalties, and liability, whether actual or alleged, arising out of or resulting from injury, sickness, disease or death to any person or the damage, loss, expense or destruction of any property, including loss of use resulting therefrom, which may occur, be caused by, or in any way result from any actual or alleged act, omission, negligence, misconduct, or strict liability of CONTRACTOR, its agents, its sub-contractors, partners, servants, officers, employees, volunteers, anyone directly or indirectly employed by them, or anyone for whose acts they may be liable, related to the performance or non-performance of the contract herein entered into, including any and all costs, fines, penalties, expense and/or attorney fees, including but not limited to expert witness fees, incurred by the OWNER as a result of any such claims, demands, losses and/or causes of action including any costs associated with the enforcement of this indemnity provision except those arising out of the sole negligence of OWNER. This indemnification does not apply to any strict liability of the St. John the Baptist Parish Government. The CONTRACTOR shall investigate, adjust, settle, contest to resolution, resist claims, handle, respond to, provide defense for and defend any such claims, demands, proceedings, judgments, or suits at its sole expense related thereto, even if such claim, proceeding, judgment, demand or suit is groundless, false or fraudulent.

5.3 POLICIES AND CERTIFICATES

All policies and certificates of insurance of the Contractor/Subcontractor shall contain the following clauses:

- 5.3.1 The Contractor/ Subcontractor's insurer will have no right of recovery or subrogation against the OWNER it being the intention of the parties that the insurance policies so affected shall protect both parties and shall be primary coverage for any and all losses covered by the below described insurance. Contractor's insurers shall waive all rights against the Owner
- 5.3.2 The OWNER shall be named as an additional insured as respects to liability arising out of activities performed by or on behalf of the Contractor: products and completed operations of the Contractor, premises owned, occupied or used by Contractor. The Commercial General Liability Policy shall include ISO Forms CG 20 10 or its equivalent.
- 5.3.3 The insurance companies issuing the policy or policies shall have no recourse against the OWNER for payment of any premiums or for assessments under any form of policy.
- 5.3.4 Any and all deductibles and/or self insured retentions in the below described insurance policies shall be assumed and be for the account of, and shall be borne solely by the Contractor/Subcontractor and at his sole expense without any right of reimbursement from the OWNER, and shall not exceed \$10,000 per policy.

5.4 INSURANCE

The Contractor/Subcontractor, prior to commencing work, shall provide at his own expense, proof to the OWNER of the following insurance coverages required by the contract. Insurance is to be placed with insurance companies authorized to do business and approved in the State of Louisiana with an A.M. Best's rating of no less than A-:VI. This

requirement will be waived for workers' compensation coverage only for those contractors whose workers' compensation coverage is placed with companies who participate in the State of Louisiana Workers' Compensation Assigned Risk Pool or the Louisiana Workers' Compensation Corporation. Policies are to be on an Occurrence basis, Claims Made policies are not acceptable. Contractor shall provide an "All-Risk" Builder's Risk Insurance Policy covering all perils typically found and which shall include coverage for wind damage and flood.

5.4.1 All notices will name the Contractor/Subcontractor and identify the contract number. Insurance coverage specified in the GENERAL CONDITIONS is to be provided by the Contractor with the following minimum limits:

5.4.1.1 Workers' Compensation-Statutory in compliance with the Compensation Law of the State of Louisiana. Employer's liability to be \$1,000,000. Alternate Employer Endorsement in favor of OWNER; Waiver of Subrogation in favor of OWNER; and Thirty (30) days prior written notice of cancellation, non-renewal, and adverse material change to OWNER. The OWNER and the Contractor mutually agree that it is their intention to recognize the OWNER as the statutory employer of the contractor's employees (whether direct employees or statutory employees of the contractor) when any of the contractor's employees are doing work and/or providing service under this agreement.

5.4.1.2 Commercial General Liability Insurance: See Invitation for Bid Section 10.0 Insurance. This insurance shall include products/completed operations, contractual liability, personal injury, and without written prior approval of the OWNER, the Commercial General Liability coverages shall not exclude any standardized coverage included in the basic form or limit any coverages for this project in any way that would prohibit or limit the reporting of any claim, suit and the subsequent defense and indemnity that would normally be provided by the policy. The Certificate of Insurance shall indicate which of the seven (7) coverage requirements below are not included in the policy, if any:

1. Premises - Operations;
2. Broad Form Contractual Liability;
3. Products and Completed Operations;
4. Use of Contractors and Subcontractors;
5. Personal Injury;
6. Broad Form Property Damage;
7. Explosion, Collapse, and Underground (XCU) Coverage

Note: On the certification of insurance, under the description of operations, the following wording is required: THE AGGREGATE LOSS LIMIT APPLIES TO EACH PROJECT, or a copy of ISO form CG2503 (Ed. 11-85) shall be submitted.

Waiver of Subrogation to cover both oral and written contracts in favor of the OWNER and Thirty (30) days notice of cancellation, non-renewal or material change. If unable to provide and grant 30 days notice of cancellation, this should be brought to the attention of the Risk Management Department for approval.

5.4.1.3 Business Automobile Liability Insurance with a combined single limit of \$500,000 per occurrence for bodily injury and property damage. This insurance shall include for bodily injury and property damage the following coverages:

1. Any automobiles;
2. Owned automobiles;
3. Hired automobiles;
4. Non-owned automobiles.

5.4.1.4 An Umbrella Policy may be used to meet minimum requirements.

5.4.1.5 All property losses shall be made payable to and adjusted with OWNER.

5.4.1.6 All policies of insurance shall be approved by contracting OWNER prior to the inception of any work.

5.4.1.7 (OMITTED)

5.4.1.8 If, at any time any of the said policies shall be or become unsatisfactory to OWNER, as to form or substance, or if a company issuing any such policy shall be or become unsatisfactory to OWNER, the Contractor/Subcontractor shall promptly obtain a new policy, submit the same to OWNER for approval and submit a certificate thereof as herein above provided. Upon failure of the Contractor/Subcontractor to furnish, deliver and maintain such insurance as above provided, this contract, at the election of OWNER, may be forthwith declared suspended, discontinued or terminated. Failure of the Contractor/Subcontractor to take out and/or to maintain any required insurance shall not relieve the Contractor/Subcontractor from any liability under the contract, nor shall the insurance requirements be construed to conflict with obligations of the Contractor/Subcontractor concerning indemnification.

5.4.2 Thirty (30) days prior notice of cancellation shall be given to OWNER by registered mail, return receipt requested, on all of the required coverage provided to OWNER in the event of cancellation, non-renewal and/or any changes by insurers with regard to limits, terms or conditions (material changes). All notices will name the Contractor/Subcontractor and identify the contract number.

5.5 INFORMATION TO BIDDERS

RISKS AND INDEMNIFICATIONS ASSUMED BY THE CONTRACTOR. Neither the acceptance the completed work nor payment therefore shall release the Contractor/Subcontractor from his obligations from the insurance requirements or indemnification agreement.

5.5.1 Additional insurance may be required on an individual basis for extra hazardous contracts and specific service agreements. If such additional insurance is required for a specific contract, that requirement will be described in the "Special Conditions" section of the contract specifications.

5.5.1.1 The contractor will acquire builders risk coverage for the full value of the project, or in the case of a renovation, for the full value of the renovation which provides all risk coverage for direct physical loss or damage to buildings/contents or structures during the course of construction. This coverage shall not have a deductible higher than a \$5,000 per occurrence. The deductible is the responsibility of the contractor, and should be taken into consideration when determining contract price.

5.5.2 If any of the insurance requirements are not complied with at their renewal dates, payments to the Contractor/Subcontractor will be withheld until those requirements have been met, or at the option of OWNER, OWNER may pay the Renewal Premium and withhold such payments from any monies due the Contractor/Subcontractor. However, under no circumstances shall OWNER be responsible for the payment or provision of fees to any Broker, Wholesaler, Agent or Producer involved in the placement or renewal of the policy(ies) in question.

5.5.2.1 The contractor shall purchase and maintain boiler and machinery insurance or additional property insurance as may be required by Laws and Regulations which will include the interest of OWNER, Contractor, Subcontractor, Architect and Architect's Consultants (or ENGINEER and Engineer's Consultants) in the work all of whom shall be listed as insured or additional insured parties.

5.5.3 All policies and certificates of insurance SHALL BE APPROVED BY OWNER PRIOR TO THE INITIATION OF ANY WORK. If OWNER has any objection to the coverage afforded by or any other provisions of the insurance required to be purchased and maintained by the Contractor in accordance with the insurance requirements for the work on the basis of non-conformance with the Contract Documents, OWNER shall notify the

Contractor in writing within fifteen (15) days after receipt of the certificates. The Contractor shall provide a written response to OWNER with objections within ten (10) days from the date of the letter request.

5.5.4 Other coverage may be required by OWNER based on specific needs. If such other coverage is required for this contract, that coverage will be described in the "Special Conditions" of the contract specifications.

5.5.6 Contractors Pollution coverage with minimum limits of \$1,000,000.00 naming OWNER as an Additional Insured due to the nature of work being performed.

5.5.7 SUBCONTRACTORS - Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates for each subcontractor. All coverage for subcontractors shall be subject to all of the requirements stated herein for the Contractor.

5.5.8 CERTIFICATE OF INSURANCE AND INDEMNIFICATION AGREEMENT - Contractor shall furnish OWNER with certificates of insurance effecting coverage required. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. THESE CERTIFICATES ARE TO BE RECEIVED AND APPROVED BY OWNER BEFORE WORK COMMENCES, AND THEREAFTER UPON RENEWAL OR REPLACEMENT OF EACH REQUIRED COVERAGE. OWNER reserves the right to require complete, certified copies of all required insurance policies at any time and upon request.

5.5.9 INSURANCE REQUIREMENTS FOR CONTRACTORS - Contractors shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors. The cost of such insurance shall be included in the bid.

5.6 MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

5.6.1 COVERAGE:

5.6.1.1 Insurance Services Office Commercial General Liability coverage ("occurrence form CG 00 01"). "Claims Made" form is unacceptable. The "occurrence form" shall not have "sunset clause".

5.6.1.2 Insurance Services Office form number CA0001 covering Automobile Liability. The policy shall provide coverage for any auto or owned, hired, and non-owned coverage. If an automobile is to be utilized in the execution of this contract, and the vendor/contractor does not own a vehicle, then proof of hired and non-owned coverage is sufficient.

5.6.1.3 Workers' Compensation insurance as required by the Labor Code of the State of Louisiana, including Employers Liability insurance.

5.6.2 MINIMUM LIMITS OF INSURANCE: Contractor shall maintain limits no less than:

5.6.2.1 Commercial General Liability: See Invitation for Bid Section 10.0 Insurance for coverage terms and limits.

5.6.2.2 Automobile Liability: \$500,000 combined single limit per accident, for bodily injury and property damage.

5.6.2.3 Workers' Compensation and Employers Liability: Workers' Compensation limits as required by the Labor Code of the State of Louisiana (Statutory Benefits). Employers Liability limit is to be \$1,000,000.

5.6.3 DEDUCTIBLES AND SELF-INSURED RETENTIONS - Any deductibles or self-insured retentions must be declared to and approved by OWNER. At the option of the OWNER either: The insurer shall reduce or eliminate such deductibles or self-insured retentions as respects OWNER; or the Contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

5.6.4 OTHER INSURANCE PROVISIONS: The policies are to contain, or be endorsed to contain, the following provisions:

5.6.4.1 General Liability and Automobile Liability Coverages

- a) OWNER is to be added as "additional insured" as respects liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor, premises owned, occupied or used by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to OWNER. It is understood that the business auto policy under "Who is an insured" automatically provides liability coverage in favor of OWNER.
- b) Any failure to comply with reporting provisions of the policy shall not affect coverage provided to OWNER.
- c) The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

5.6.4.2 Workers' compensation and Employer's Liability Coverage - The insurer shall agree to waive all rights of subrogation against OWNER for losses arising from work performed by the Contractor for OWNER.

5.6.4.3 All Coverages - Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, non-renewed, voided, canceled thirty (30) days prior written notice by certified mail, return receipt requested to OWNER.

5.6.5 ACCEPTABILITY OF INSURERS - Insurance is to be placed with insurers with A.M. BEST'S RATING OF NO LESS THAN A:VI. This requirement will be waived for workers' compensation coverage only for those contractors whose workers' compensation coverage is placed with companies who participate in the State of Louisiana Workers' Compensation Corporation Assigned Risk Pool or Louisiana Workers' Compensation Corporation.

5.7 PARTIAL UTILIZATION - PROPERTY INSURANCE

If OWNER finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work, such use or occupancy may be accomplished in accordance with paragraph 14.10; provided that no such use or occupancy shall commence before the insurers providing the property insurance have acknowledged notice thereof and in writing effected the changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or allowed to lapse on account of any such partial use of occupancy.

5.8 PRIMARY COVERAGE

OWNER and CONTRACTOR intend that any policies provided in response to paragraphs 5.4.1.2, 5.5.1.1, and 5.5.2.1 shall protect all of the parties insured and provide primary coverage for all losses and damages caused by the perils covered thereby. Accordingly, all such policies shall contain provisions to the effect that in the event of payment of any loss or damage the insurer shall have no rights of recovery against any of the parties named as insured or additional insured, and if the insurers require separate waiver forms to be signed by ENGINEER, engineer's consultant or subcontractor, CONTRACTOR will obtain the same.

ARTICLE 6 - Contractor's Responsibilities

6.1 SUPERVISION: CONTRACTOR shall supervise and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures of construction, but CONTRACTOR shall not be responsible for the negligence of others in the design of construction which is indicated in and required by the Contract Documents. CONTRACTOR shall be responsible to see that the finished Work complies accurately with the Contract Documents.

6.2 CONTRACTOR'S SUPERINTENDENT:

6.2.1 CONTRACTOR shall keep on the Work at all times during its progress a competent resident superintendent, who shall not be replaced without written notice to OWNER and ENGINEER except under extraordinary circumstances. The superintendent will be CONTRACTOR'S representative at the site and shall have authority to act on behalf of CONTRACTOR. All communications given to the superintendent shall be as binding as if given to CONTRACTOR. If OWNER, at any time objects to the superintendent, CONTRACTOR shall provide a replacement superintendent at no increase in Contract Price or Contract Time.

6.2.2 The Superintendent shall, as a minimum, be required to be present at a monthly meeting of the Owner in order to address any applicable questions which may arise during construction of the project and to submit request for consideration and approval of any and all applications for payment. It shall be the Contractor's responsibility to ascertain and verify the time, date and location of said meeting. In the event the Superintendent fails to attend the said meeting, Owner may at his option refrain from approving any outstanding applications for payment until the requirements of this provision are fully complied with.

6.3 WORK HOURS: CONTRACTOR shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. CONTRACTOR shall at all times maintain good discipline and order at the site.

6.3.1 Except in connection with the safety or protection of persons or the work or property at the site or adjacent thereto, and except as otherwise indicated in the Contract Documents, all Work under the project site shall be performed during normal working hours, and CONTRACTOR will not permit overtime Work or the performance of Work on Saturday, Sunday, legal holidays observed by the OWNER, each year, without OWNER'S written consent given after prior written notice to ENGINEER.

6.3.2 Normal working hours shall be defined as CONTRACTOR'S normal eight-hour working period occurring between the hours set forth at the pre-construction conference, or if none are set forth, beginning at 7:00 a.m. and ending at 5:00 p.m., exclusive of Saturdays, Sundays, or legal holidays. Work during other than normal working hours may be scheduled as a regular procedure by CONTRACTOR if he first obtains written permission from OWNER. OWNER shall be entitled to recover costs for overtime inspection related to work done during other than normal working hours.

6.3.3 If CONTRACTOR, after reviewing the Contract Documents, and for his convenience and at no increase in Contract Price, feels that scheduled work during other than normal work hours will be required to complete the work within the Contract Time, CONTRACTOR shall submit a proposed schedule for said work with the construction schedule as described in Paragraph 2.6 of the General Conditions. This schedule will be reviewed for acceptance by OWNER and discussed at the pre-construction conference as described in Paragraph 2.8 of the General Conditions. If the schedule is accepted by OWNER, OWNER will not seek to recover costs for overtime inspection. OWNER'S approval of CONTRACTOR'S schedule will not be considered a basis for a change in the Contract Price. Changes in Contract Price will be resolved in accordance with Article 11 of the General Conditions.

6.3.4 If at any time subsequent to the submission of the construction schedule, an event within the control of CONTRACTOR occurs which, in the opinion of CONTRACTOR, requires him to request approval to schedule Work during other than normal working hours, for his convenience and at no increase in Contract Price, he shall submit at least

three (3) working days in advance of overtime period proposed a revised schedule to ENGINEER. If OWNER accepts the schedule, CONTRACTOR will be notified in writing.

6.3.5 If the work performed during other than normal working hours is not scheduled in accordance with the procedures described above, or if CONTRACTOR'S schedule is not accepted by OWNER, OWNER will invoice CONTRACTOR for the costs of overtime inspection which will include but may not be limited to costs for engineering, administrative expenses and other related costs. In the event CONTRACTOR fails to pay such costs within 30 days after receipt of an invoice from OWNER, the unpaid amount will be deducted from CONTRACTOR'S pay estimates and charged to the Contract.

6.3.6 CONTRACTOR shall light the parts of the work performed during other than normal working hours as required to comply with the Municipality or Agency with jurisdiction.

6.4 MATERIALS, EQUIPMENT AND LABOR: CONTRACTOR shall furnish and assume full responsibility for all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.

6.5 MATERIALS AND EQUIPMENT:

6.5.1 All materials and equipment shall be of good quality and new, except as otherwise provided in the Contract Documents. CONTRACTOR shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable Supplier except as otherwise provided in the Contract Documents; but no provision of any such instructions will be effective to assign to ENGINEER, or any of engineer's consultants, agents or employees, any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of subparagraphs 9.13.3 or 9.13.4.

6.5.1.1 Manufacturer's warranty for all material, products and equipment to be furnished by the CONTRACTOR and to be incorporated into the completed work shall be furnished to the OWNER through the CONTRACTOR.

6.5.1.2 The manufacturer of all materials, products and equipment shall furnish complete information as to any special conditions, or restriction to be applied in the use of these items. Should the manner or method of installation, specified performance or test results as set forth in these specifications be contrary to the manufacturer's recommendations for use of the product, the manufacturer shall at once notify the CONTRACTOR who shall forward same to the ENGINEER for appropriate action. Lack of such notification shall be certification by the CONTRACTOR that specification requirements will be met by the material, products and equipment under project conditions.

6.5.1.3 Data submitted on all equipment shall include complete maintenance instructions and parts lists in sufficient detail to facilitate ordering replacements.

6.5.2 Any equipment proposed for installation by the CONTRACTOR shall meet the intent and provisions of the specifications. All equipment shall be equal in performance to that specified. Performance shall mean equal in quality of construction and materials, efficiency, ease of maintenance, reliability and ability to meet the design parameters on which the specifications are based. Service over the life of the equipment is another factor on which the specification is based and the CONTRACTOR shall provide a written assurance that local service and a manufacturers' representative are currently available to provide service.

6.5.3 It shall be the responsibility of the CONTRACTOR to make certain that any equipment included in his bid meets the above- listed requirements. The CONTRACTOR shall submit to the ENGINEER a list of similar installations by the manufacturer of all major items of equipment to enable ENGINEER to determine their compliance with these drawings and specifications in regard to performance, design, arrangement and capacity. ENGINEER's out-of- pocket expenses to investigate and inspect similar installations of major items of equipment shall be paid by the CONTRACTOR.

6.6 ADJUSTING PROGRESS SCHEDULE: CONTRACTOR shall submit to ENGINEER for acceptance (to the extent indicated in paragraph 2.6.1) adjustments in the progress schedule to reflect the impact thereon of new developments; these will conform generally to the progress schedule then in effect and additionally will comply with any provisions of the General Requirements applicable thereto.

6.7 SUBSTITUTES OR "OR-EQUAL" ITEMS:

6.7.1 CONTRACTOR is to furnish only material and equipment named or specified in the Contract Documents except where the Contract specifically allows for substitutions after the Contract award. Provisions to submit proposals for substitute and "Or Equal" materials and equipment before Bid opening are included in the Instructions to Bidders.

6.7.2 If an item of material or equipment named or specified in the Contract Documents is unavailable after Contract award, CONTRACTOR shall provide prompt written notice to the ENGINEER, and with such notice propose a substitute item with sufficient data to allow ENGINEER's review to determine if the proposed substitute has the essential characteristics of the item named or specified and desired. Any such request for substitution shall be made in sufficient time (including time for ENGINEER's review of the request, OWNER's issuance of a Change Order or Work Directive Change, shop drawing submittal and review, fabrication and delivery of the item, etc.) in advance of the scheduled time for installation of the item to avoid delay to the work. Any cost savings resulting from such substitution shall be credited to the OWNER in a Change Order. Any increased costs resulting from the substitution shall be borne by the CONTRACTOR and the unavailability of the item shall not entitle the CONTRACTOR to an extension of Contract time, unless CONTRACTOR can establish that due to no fault of CONTRACTOR, CONTRACTOR's subcontractors or Suppliers, it was not possible to determine availability of the item before the Contract was awarded.

6.7.3 If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, CONTRACTOR may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to ENGINEER, if CONTRACTOR submits sufficient information to allow ENGINEER to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedure for review by ENGINEER will be similar to that provided in paragraph 6.7.1 as applied by ENGINEER.

6.7.4 ENGINEER will be allowed a reasonable time within which to evaluate each proposed substitute. ENGINEER will be the sole judge of acceptability, and no substitute will be ordered, installed or utilized without ENGINEER'S prior written acceptance which will be evidenced by either a Change Order or an approved Shop Drawing.

6.8 CONCERNING SUBCONTRACTORS, SUPPLIERS AND OTHERS:

6.8.1 CONTRACTOR shall not employ any Subcontractor, Supplier or other person or organization (including those acceptable to OWNER and ENGINEER as indicated in paragraph 6.8.2), whether initially or as a substitute, against whom OWNER or ENGINEER may have reasonable objection as to their responsibility. CONTRACTOR shall not be required to employ any Subcontractor, Supplier or other person or organization to furnish or perform any of the Work against whom CONTRACTOR has reasonable objection.

6.8.2 A Subcontractor or other person or organization identified in CONTRACTOR'S Bid and not objected to in writing by OWNER prior to the execution of the Agreement will be deemed acceptable to OWNER. All other Subcontractors shall be deemed to have been accepted if OWNER does not deliver a written objection thereto within 45 days after CONTRACTOR'S written identification of such Subcontractors. However, if, in accordance with the Louisiana Public Bid Law, OWNER has reasonable objection as to the responsibility of any Subcontractor whether identified in the Bid or subsequently, CONTRACTOR shall submit an acceptable substitute without entitlement to any change in the Contract Price. After acceptance by OWNER of any particular Subcontractor, CONTRACTOR shall make no substitution without written approval of OWNER. No acceptance by OWNER of any such Subcontractor, supplier, or other person or organization shall constitute a waiver of any right of OWNER to reject defective work.

6.9 RESPONSIBILITY OF CONTRACTOR FOR SUBCONTRACTORS AND SUPPLIERS:

6.9.1 CONTRACTOR shall be fully responsible to OWNER and ENGINEER for all acts and omissions of the Subcontractors, Suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract with CONTRACTOR just as CONTRACTOR is responsible for CONTRACTOR'S own acts and omissions. Nothing in the Contract Documents shall create any contractual relationship between OWNER or ENGINEER and any such Subcontractor, Supplier or other person or organization, nor shall it create any obligation on the part of OWNER or ENGINEER to pay or to see to the payment of any moneys due any Subcontractor, Supplier or other person or organization except as may otherwise be required by Laws and Regulations.

6.9.2 The CONTRACTOR shall coordinate the Work of Subcontractors to avoid conflicts and to assure clearances. Shop drawings of various trades shall be compared by CONTRACTOR before submittal to the ENGINEER for approval, to ascertain that the installation proposed does not conflict with the structured support or space requirement. The CONTRACTOR shall have full responsibility for satisfactory coordination and completion of all subcontract items.

6.9.3 The divisions and sections of the Specifications and the identifications of any Drawings shall not control CONTRACTOR in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade. The Divisions of the Specifications are complementary, and anything mentioned or shown in a Division of the Specifications or in a Specific Trade Drawing shall be of like effect as if shown in all Divisions of the Specifications and in all Drawings.

6.9.4 All Work performed for CONTRACTOR by a Subcontractor will be pursuant to an appropriate agreement between CONTRACTOR and the Subcontractor which specifically binds the Subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of OWNER and ENGINEER and contains waiver provisions as required by paragraph 5.8. CONTRACTOR shall pay each Subcontractor a just share of any insurance moneys received by CONTRACTOR on account of losses under policies issued pursuant to paragraphs 5.4.1.2 and 5.5.2.1.

6.10 PATENT FEES AND ROYALTIES: (NOT USED)

6.11 PERMITS: Unless otherwise provided in the Supplementary Conditions, CONTRACTOR shall obtain and pay for all construction permits and licenses including appropriate NPDES/LPDES permits. OWNER shall assist CONTRACTOR, when necessary, in obtaining such permits and licenses. CONTRACTOR shall pay all governmental charges and inspection fees necessary for the prosecution of the Work, which are applicable at the time of opening of Bids, or if there are no Bids on the Effective Date of the Agreement, CONTRACTOR shall pay all charges of utility owners for connections to the Work, and OWNER shall pay all charges of such utility owners for capital costs related thereto such as plant investment fees.

6.12 LAWS AND REGULATIONS:

6.12.1 CONTRACTOR shall give all notices and comply with all Laws and Regulations applicable to furnishing and performance of the Work including appropriate NPDES/LDPES regulations. Except where otherwise expressly required by applicable Laws and Regulations, neither OWNER nor ENGINEER shall be responsible for monitoring CONTRACTOR'S compliance with any Laws or Regulations.

6.12.2 If CONTRACTOR observes that the Specifications or Drawings are at variance with any Laws or Regulations, CONTRACTOR shall give ENGINEER prompt written notice thereof, and any necessary changes will be authorized by one of the methods indicated in paragraph 3.4. If CONTRACTOR performs any Work knowing or having reason to know that it is contrary to such Laws or Regulations, and without such notice to ENGINEER, CONTRACTOR shall bear all costs arising therefrom; however, it shall not be CONTRACTOR'S primary responsibility to make certain that the Specifications and Drawings are in accordance with such Laws and Regulations.

6.13 TAXES: CONTRACTOR shall pay all sales, consumer, use and other similar taxes required to be paid by CONTRACTOR in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

6.14 USE OF PREMISES: CONTRACTOR shall confine construction equipment, the storage of materials and equipment

and the operations of workers to the Project site and land and areas identified in and permitted by the Contract Documents and other land and areas permitted by Laws and Regulations, rights-of-way, permits and easements, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. CONTRACTOR shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof or of any land or areas contiguous thereto, resulting from the performance of the Work. Should any claim be made against OWNER or ENGINEER by any such owner or occupant because of the performance of the Work, CONTRACTOR shall promptly attempt to settle with such other party by agreement or otherwise resolve the claim by arbitration or by law. CONTRACTOR shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold OWNER and ENGINEER harmless from and against all claims, damages, losses and expenses (including, but not limited to, fees of engineers, architects, attorneys and other professionals and court and arbitration costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any such other party against OWNER or ENGINEER to the extent based on a claim arising out of CONTRACTOR'S performance of the Work.

6.15 CLEANING PREMISES: During the progress of the Work, CONTRACTOR shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the work CONTRACTOR shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery, and surplus materials, and shall leave the site clean and ready for occupancy by OWNER. CONTRACTOR shall restore to original condition all property not designated for alteration by the Contract Documents.

6.16 LOADING STRUCTURES: CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall CONTRACTOR subject any part of the Work or adjacent property to stresses or pressures that will endanger it.

6.17 RECORD DOCUMENTS: CONTRACTOR shall maintain in a safe place at the site one record copy of all Drawings, Specifications, Addenda, Change Orders, Work Directive Changes, Field Orders and written interpretations and clarifications (issued pursuant to paragraph 9.4) in good order and annotated to show all changes made during the construction. These record documents together with all approved samples and a counterpart of all approved Shop Drawings will be available to ENGINEER for reference. Upon completion of the Work, these record documents, samples and Shop Drawings will be delivered to ENGINEER for OWNER.

6.18 SAFETY AND PROTECTION: CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

6.18.1 All employees on the Work and other persons and organizations who may be affected thereby;

6.18.2 All the Work and materials and equipment to be incorporated whether in storage on or off the site.

6.18.3 Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and Underground Facilities not designated for removal, relocation or replacement in the course of construction.

CONTRACTOR shall comply with all applicable Laws and Regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. CONTRACTOR shall notify owners of adjacent property and of Underground Facilities and utility owners when prosecution of the Work may affect them and shall cooperate with them in the protection, removal, relocation and replacement of their property. All damage, injury or loss to any property referred to in paragraph 6.18.2 or 6.18.3 caused, directly or indirectly, in whole or in part, by CONTRACTOR, any Subcontractor, Supplier or any other person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, shall be remedied by CONTRACTOR (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of OWNER or ENGINEER or anyone employed by either of them or anyone for whose acts either of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of CONTRACTOR). CONTRACTOR'S duties and responsibilities

for the safety and protection of the Work shall continue until such time as all the Work is completed and ENGINEER has issued a notice to OWNER and CONTRACTOR in accordance with paragraph 14.13 that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

6.19 SAFETY REPRESENTATIVE: CONTRACTOR shall designate a responsible representative at the site whose duty shall be the prevention of accidents. This person shall be CONTRACTOR'S superintendent unless otherwise designated in writing by CONTRACTOR to OWNER.

6.20 EMERGENCIES: In emergencies affecting the safety or protection of persons, the Work, or property at the site or adjacent thereto, CONTRACTOR, without special instruction or authorization from ENGINEER or OWNER, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give ENGINEER prompt written notice if any significant changes in the Work or variations from the Contract Documents have been caused thereby. If ENGINEER determines that a change in the Contract Documents is required because of the action taken in response to an emergency, a Work Directive Change or Change Order will be issued to document the consequences of the changes or variations.

6.21 SHOP DRAWINGS: After checking and verifying all field measurements, CONTRACTOR shall submit to ENGINEER for review and approval in accordance with the accepted schedule of Shop Drawing submissions (see paragraph 2.9), five copies of all Shop Drawings, unless otherwise indicated in the Supplemental Conditions, which will bear a stamp or specific written indication that CONTRACTOR has satisfied CONTRACTOR's responsibilities under the Contract Documents with respect to the review of the submission. All submissions will be identified as ENGINEER may require. The data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specific performance and design criteria, materials and similar data to enable ENGINEER to review the information as required.

6.22 SAMPLES: CONTRACTOR shall also submit to ENGINEER for review and acceptance with such promptness as to cause no delay in Work, all samples required by the Contract Documents. All samples will have been checked by and accompanied by a specific written indication that CONTRACTOR has satisfied CONTRACTOR'S responsibilities under the Contract Documents with respect to the review of the submission and will be identified clearly as to material, Supplier, pertinent data such as catalog numbers and the use for which intended.

6.23 SHOP DRAWINGS AND SAMPLES SUBMISSION REQUIREMENTS:

6.23.1 Before submission of each Shop Drawing or sample, CONTRACTOR shall have determined and verified all quantities, dimensions, specific performance criteria, installation requirements, materials, catalog numbers and similar data with respect thereto and reviewed or coordinated each Shop Drawing or sample with other Shop Drawings and samples and with the requirements of the Work and the Contract Documents.

6.23.2 At the time of each submission, CONTRACTOR shall give ENGINEER specific written notice of each variation that the Shop Drawings or samples may have from the requirements of the Contract Documents, and, in addition, shall cause a specific notation to be made on each Shop Drawing submitted to ENGINEER for review and acceptance of each such variation.

6.24 ENGINEER'S REVIEW OF SHOP DRAWINGS AND SAMPLES:

6.24.1 ENGINEER will review and approve with reasonable promptness Shop Drawings and samples, but ENGINEER'S review and approval will be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents and shall not extend to means, methods, sequences, techniques or procedures of construction or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions. CONTRACTOR shall make any corrections required by ENGINEER and shall return the required number of corrected copies of Shop Drawings and submit as required new samples for review and approval. CONTRACTOR shall direct specific attention in writing to revisions other than the corrections called for by ENGINEER on previous submittals.

6.24.2 After his first review and comments on the Shop Drawings and samples the ENGINEER will either give his

approval in accordance with the provisions of paragraphs 6.24.1, or request changes and corrections as noted. The CONTRACTOR shall then make changes and corrections noted and return them to the ENGINEER. If the Shop Drawings and samples are then acceptable, the ENGINEER will return them to the CONTRACTOR, as approved. However, if further revisions are required, ENGINEER'S cost and expenses of further review shall be paid by the CONTRACTOR.

6.24.3 ENGINEER's review and approval of Shop Drawings or samples shall not relieve CONTRACTOR from responsibility for any variation from the requirements of the Contract Documents unless CONTRACTOR has in writing called ENGINEER'S attention to such variation at the time of submission as required by paragraph 6.23.2 and ENGINEER has given written approval of each such variation by a specific written notation thereof incorporated in or accompanying the Shop Drawing or sample approval; nor will any approval by ENGINEER relieve CONTRACTOR from responsibility for errors or omissions in the Shop Drawings or from responsibility for having complied with the provisions of paragraph 6.23.1 and 6.23.2.

6.24.4 Where a Shop Drawing or sample is required by the Specifications, any related Work performed prior to ENGINEER'S review and approval of the pertinent submission will be the sole expense and responsibility of CONTRACTOR.

6.25 CONTINUING THE WORK: CONTRACTOR shall carry on the work and adhere to the progress schedule during all disputes or disagreements with OWNER. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted by paragraph 15.5 or as CONTRACTOR and OWNER may otherwise agree in writing.

6.26 INDEMNIFICATION:

6.26.1 To the fullest extent permitted by law, the CONTRACTOR shall protect, defend, indemnify, save and hold harmless the OWNER, including all Parish Departments, its elected and appointed officials, Agencies, Councils, Boards and Commissions, Districts, their officers, agents, servants and employees, including volunteers, from and against any and all claims, demands, expense, losses, suits, costs, actions, fines, penalties, actions, and liability, whether actual or alleged, arising out of or resulting from injury, sickness, disease or death to any person or the damage, loss, expense or destruction of any property, including loss of use resulting therefrom, which may occur, be caused by, or in any way resulting from any actual or alleged act, omission, negligence, misconduct, or strict liability of CONTRACTOR, its agents, its sub-contractors, partners, servants, officers employees, volunteers, anyone directly or indirectly employed by them or anyone for whose acts they may be liable, related to the performance or non-performance of the contract herein entered into, including any and all costs, fines, penalties, expense and/or attorney fees, including but not limited to expert witness fees, incurred by the OWNER, all Parish Departments, its elected and appointed officials, Agencies, Councils, Districts, Boards and Commissions, their officers, agents, servants and employees, including volunteers, as a result of any such claims, demands and/or causes of action except those arising out of the.... solenegligence of the OWNER, all Parish Departments, its elected and appointed officials, Districts, Agencies, Councils Boards and Commissions, their officers, agents servants and employees, including volunteers. The CONTRACTOR shall investigate, adjust, settle, contest to resolution, resist claims, handle, respond to, provide defense for and defend any such claims, demands, proceedings, judgments, or suits at its sole expense related thereto, even if such claim, proceeding, judgment, demand or suite is groundless, false or fraudulent.

6.26.2 In any and all claims against OWNER or ENGINEER or any of their consultants, agents or employees by any employee of CONTRACTOR, any Subcontractor, any person or organization directly or indirectly employed by any of them to perform or furnish any of the Work or anyone for whose acts any of them may be liable, the indemnification obligation under this paragraph 6.26 shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for CONTRACTOR or any such Subcontractor or other person or organization under workers' or workmen's compensation acts, disability benefit acts or other employee benefit acts.

6.26.3 The obligations of CONTRACTOR under this paragraph 6.26 shall not extend to the liability of ENGINEER, his agents or employees arising out of the preparation or approval of maps, drawings, opinions, reports, surveys, Change Orders, designs or Specifications.

6.27 PROJECT MEETINGS: CONTRACTOR, along with appropriate Subcontractors, shall attend project meetings

requested by OWNER for the purpose of discussing and resolving matters concerning the various elements of the work.

6.28 CONTRACTOR shall perform all work under this Agreement as an independent contractor and shall not be considered as an agent, employee, or servant of OWNER, nor shall CONTRACTOR'S subcontractors, employee's agents or servants, be considered to be agents, employees, or servants of OWNER.

6.29 QUALITY CONTROL:

6.29.1 CONTRACTOR shall establish a quality control system, narrative in style, to perform sufficient supervision, inspection and testing of all items of work including that of his Subcontractors to insure conformance to applicable Specifications and Drawings with respect to the material, workmanship, construction, finish, functional performance and identification. CONTRACTOR'S quality control system will specifically include the surveillance of the tests required in the technical provisions of the Specifications. A person shall be placed in charge of the CONTRACTOR'S quality control system and that person shall be other than the CONTRACTOR'S superintendent.

6.29.2 CONTRACTOR'S quality control will specifically include the checking, approval and coordination of all Shop Drawings, the ascertaining of the compliance of all items with specification requirements and the tests required in the technical provisions of the specifications, a procedure for preparing non-conformance reports, and completing a Daily Quality Control Report.

6.29.3 CONTRACTOR has the sole responsibility for compliance of the construction with the requirements of the Drawings and Specifications and the quality control system shall be such that this compliance is assured.

6.29.4 The quality control person shall, in the presence of the OWNER'S, check all contractor established elevations, the location of all underground pipelines and electrical conduits before covering begins, all reinforcing steel before pouring concrete, and any other item which cannot be located and inspected when work is complete. Data obtained shall be recorded by the quality control person on the record documents.

6.29.5 Within ten days after the date of the Agreement, CONTRACTOR shall furnish ENGINEER a quality control plan which shall include the name and experience record of the person in charge, procedures, instructions and reports to be used.

6.29.6 The form of Quality Control Daily Report is shown in Exhibit "B". This form shall be completed by the CONTRACTOR and each sub-contractor. This daily report shall include complete information as to personnel and equipment being utilized on the project along with a summary of work activities, (i.e., footage of various pipe laid, piles driven, equipment installed etc.) for each days work. These daily reports shall be included with CONTRACTOR'S monthly application for payment. The application for payment will be considered incomplete and will not be processed without inclusion of the Quality Control Daily Reports.

ARTICLE 7 - Other Work

7.1 RELATED WORK AT SITE: OWNER may perform other work related to the Project at the site by OWNER'S own forces, have other work performed by utility owners or let other direct contracts which shall contain General Conditions similar to these. If the fact that such other work is to be performed was not noted in the Contract Documents, written notice thereof will be given to CONTRACTOR prior to starting any such other work.

7.2 ACCESS TO THE SITE: CONTRACTOR shall afford each utility owner and other contractor who is a party to such a direct contract (or OWNER, if OWNER is performing the additional work with OWNER'S employees) proper and safe access to the site and a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such work, and shall properly connect and coordinate the Work with theirs. CONTRACTOR shall do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work. CONTRACTOR shall not endanger any work of others by cutting, excavating or otherwise altering their work and will only cut or alter their work with the written consent of ENGINEER and the others whose work will be affected.

7.3 ACCEPTANCE OF THE WORK OF OTHERS: If any part of CONTRACTOR'S Work depends for proper execution or results upon the work of any such other CONTRACTOR or utility owner (or OWNER), CONTRACTOR shall inspect and promptly report to ENGINEER in writing any delays, defects or deficiencies in such work that render it unsuitable for such proper execution and results. CONTRACTOR'S failure so to report shall constitute an acceptance of the other work as fit and proper for integration with CONTRACTOR'S Work except for latent or non-apparent defects and deficiencies in the other work.

7.4 COORDINATION:

7.4.1 Whenever Work to be performed by CONTRACTOR is dependent upon the work of other parties, CONTRACTOR shall coordinate that Work with the dependent work to the same extent that CONTRACTOR is required to coordinate dependent Subcontractor Work. Installation of Work by CONTRACTOR, directly or through a Subcontractor, in any given area, shall constitute acceptance by CONTRACTOR (including the Subcontractor) of all previously placed dependent work.

7.4.2 If OWNER contracts with other parties for other work, ENGINEER will have the authority and responsibility for coordinating activities of CONTRACTOR and those parties, unless another person or organization with specific authority and responsibility for coordination of the CONTRACTOR and those other parties is expressly designated in the Supplementary Conditions or at the pre-construction conference.

7.4.3 If OWNER contracts with other parties for other work, CONTRACTOR shall be responsible for cooperating with ENGINEER fully in the coordination of CONTRACTOR's Submittals with dependent Submittals of those other parties whose work in any way relates or depends upon the Work, or visa versa. When submitted to ENGINEER any such coordinated Submittal of CONTRACTOR shall identify by specific notation, within or attached to that Submittal, each and every item of interface with the other work.

7.5 MUTUAL DUTIES AND RESPONSIBILITIES:

7.5.1 If CONTRACTOR causes damage to the work or property of others, or if a claim arising out of CONTRACTOR's execution of Work is made by another party against CONTRACTOR, OWNER, or ENGINEER, CONTRACTOR shall promptly attempt to settle with that party by agreement or otherwise resolve the claim. CONTRACTOR shall defend, indemnify and hold harmless OWNER, ENGINEER and others as provided in paragraph 5.2, from and against all claims arising out of or resulting from damage by CONTRACTOR to the work or property of others or from CONTRACTOR's execution of the Work.

7.5.2 If another party causes damage to Work or property of CONTRACTOR, or if the performance of other work results in any claim by CONTRACTOR, CONTRACTOR shall promptly attempt to settle with that party by agreement or otherwise resolve the claim. CONTRACTOR shall not begin any action against OWNER or ENGINEER, their consultants, agents or any of their directors, officers, shareholders, agents or employees, or others indemnified as provided in paragraph 5.0, or permit any action against them to be maintained in CONTRACTOR's name or for CONTRACTOR's benefit before any court or tribunal, which action seeks to impose any liability or recover any damages from OWNER or ENGINEER for such claim.

7.5.3 Except as excluded in paragraph 7.5.4, if any party performing other work causes suspension of Work resulting in unreasonable delay under the circumstances, and if, upon a request from CONTRACTOR, OWNER concludes that any such delay requires a change in Contract Price or Contract Time, OWNER shall, pursuant to Articles 10 through 12, authorize such a change in Contract Price or Contract Time, or both.

7.5.4 If a party performing other work is granted an extension in a contract time only (based on unreasonable delay under circumstances not caused in whole or in part by acts or omissions of that party, OWNER, ENGINEER or OWNER's representative on that other work), and if, upon a request from CONTRACTOR, OWNER concludes that the extension granted to the other work requires a change in a coterminous Contract Time in the Contract Documents, OWNER shall authorize the necessary change in Contract Time only.

7.6 CONTRACTOR'S RESPONSIBILITY FOR OWNER COSTS: If CONTRACTOR becomes involved in settling or otherwise resolving claims with other persons performing other work arising out of events covered under paragraphs 7.5.1 or 7.5.2, or because of any other similar controversy, including damage to the Work or other work or a dispute about responsibility for clean-up or any other issue, neither OWNER, ENGINEER, nor any of their consultants, agents nor any of their directors, officers, stockholders nor employees will be involved in any way in such actions (except if subpoenaed). If OWNER incurs costs contrary to the provisions of this Article, CONTRACTOR shall reimburse those costs to the OWNER.

ARTICLE 8 - Owner's Responsibilities

8.1 Written communications from OWNER to CONTRACTOR will generally be issued through ENGINEER. If the need arises to issue written communication directly, a copy will be issued concurrently to ENGINEER. Written communications from CONTRACTOR to OWNER shall be issued to ENGINEER (and include two (2) copies for OWNER); from Subcontractor or Suppliers shall be issued through CONTRACTOR.

8.2 In case of termination of the employment of ENGINEER, OWNER shall appoint another ENGINEER whose status under the Contract Documents shall be that of the former ENGINEER. Any dispute in connection with such appointment shall be subject to the provisions of Article 16.

8.3 OWNER shall furnish the data required of OWNER under the Contract Documents promptly and shall make payments to CONTRACTOR promptly after they are due as provided in paragraphs 14.4 and 14.13.

8.4 OWNER'S duties in respect to providing lands and easements and providing engineering surveys to establish reference points are set forth in paragraphs 4.1 and 4.4. Paragraph 4.2 refers to OWNER'S identifying and making available to CONTRACTOR copies of reports of explorations and tests of subsurface conditions at the site and in existing structures which have been utilized by ENGINEER in preparing the Drawings and Specifications.

8.5 OWNER is obligated to execute Change Orders, either unilateral or negotiated, in OWNER's sole discretion, covering necessary changes in the work.

8.6 OWNER'S responsibility in respect to certain inspections, tests and approvals is set forth in paragraph 13.4.

8.7 In connection with OWNER'S right to stop Work or suspend Work, see paragraphs 13.10 and 15.1. Paragraph 15.2 deals with OWNER'S right to terminate services of CONTRACTOR under certain circumstances.

ARTICLE 9 - Engineer's Status during Construction

9.1 OWNER'S REPRESENTATIVE: The OWNER will provide an OWNER'S representative during the construction period. The duties and responsibilities and the limitations of authority of OWNER'S representative during construction are set forth in the Contract Documents and shall not be extended without written consent of OWNER.

9.2 VISITS TO SITE: In addition to the OWNER's representative, ENGINEER will make visits to the site at intervals appropriate to the various stages of construction to observe the progress and quality of the executed Work and to determine, in general, if the Work is proceeding in accordance with the Contract Documents. Neither the OWNER's representative nor the ENGINEER will be required to make exhaustive or continuous on-site inspections to check the quality or quantity of the Work. ENGINEER'S efforts will be directed toward providing for OWNER a greater degree of confidence that the completed Work will conform to the Contract Documents. On the basis of such visits and on-site observations as an experienced and qualified design professional, ENGINEER will keep OWNER informed of the progress of the Work and will endeavor to guard OWNER against defects and deficiencies in the Work.

9.4 CLARIFICATIONS AND INTERPRETATIONS: ENGINEER will issue with reasonable promptness such written

clarification of interpretations of the requirements of the Contract Documents (in the form of Drawings or otherwise) as ENGINEER may determine necessary, which shall be consistent with or reasonably inferable from the overall intent of the Contract Documents. If CONTRACTOR believes that a written clarification or interpretation justifies an increase in the Contract Price or Contract Time, CONTRACTOR may make a claim therefore as provided in Article 11 or Article 12 of the General Conditions.

9.5 AUTHORIZED VARIATIONS IN WORK:

9.5.1 ENGINEER may authorize minor variations in the Work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Time and are consistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order and will be binding on OWNER, and also on CONTRACTOR who shall perform the Work involved promptly. If CONTRACTOR believes that a Field Order justifies an increase in the Contract Price or an extension of the Contract Time and the parties are unable to agree as to the amount or extent thereof, CONTRACTOR may make a claim therefore as provided in Article 11 or 12.

9.5.2 ENGINEER shall prepare change orders at OWNER'S request, and when required by the contract documents, ENGINEER shall set the price and/or time adjustments he deems reasonable.

9.6 REJECTING DEFECTIVE WORK: ENGINEER, based on its observations, reports of resident engineer(s) will have authority to disapprove or reject Work at any time during the construction of the Work, which does not conform to the Contract Documents. ENGINEER will also have authority to require special inspection or testing of the work as provided in Paragraph 13.9, whether or not the Work is fabricated, installed, or completed. When CONTRACTOR has been notified by ENGINEER of disapproval or rejection of non-conforming Work, CONTRACTOR shall take immediate action to correct same.

9.7 SHOP DRAWINGS: In connection with ENGINEER'S responsibility for Shop Drawings and samples, see paragraphs 6.21 through 6.25, inclusive.

9.8 CHANGE ORDERS: In connection with ENGINEER'S responsibilities for Change Orders, see Articles 10, 11 and 12.

9.9 PAYMENTS: In connection with ENGINEER'S responsibilities in respect of Applications for Payment, etc., see Article 14.

9.10 DETERMINATIONS FOR UNIT PRICES: ENGINEER will determine the actual quantities and classifications of unit price work performed by CONTRACTOR. Engineer will review with CONTRACTOR ENGINEER's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application of Payment or otherwise). ENGINEER's written decision will be final and binding on CONTRACTOR, unless within ten days after the date of any such decision, CONTRACTOR delivers to the ENGINEER and OWNER written notice of intention to appeal the ENGINEER's decision.

9.11 DECISIONS ON DISPUTES: ENGINEER will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. Claims, disputes and other matters relating to the acceptability of the Work or the interpretation of the requirements of the Contract Documents pertaining to the performance and furnishing of the Work and claims under Articles 11 and 12 in respect of changes in the Contract Price or Contract Time will be referred initially to ENGINEER in writing with a request for a formal decision in accordance with this paragraph, which ENGINEER will render in writing within a reasonable time. Written notice of each such claim, dispute and other matter shall be delivered by the claimant to ENGINEER and the other party to the Agreement promptly (but in no event later than thirty days) after the occurrence of the event giving rise thereto, and written supporting data will be submitted to ENGINEER and the other party within sixty days of after such occurrence unless ENGINEER allows an additional period of time to ascertain more accurate data in support of the claim.

9.12 When functioning as interpreter and judge under paragraphs 9.10 and 9.11, ENGINEER will not show partiality to OWNER or CONTRACTOR and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity. The rendering of a decision by ENGINEER pursuant to paragraph 9.10 and 9.11 with respect to any

such claim, dispute or other matter (except any which have been waived by the making or acceptance of final payment as provided in paragraph 14.16) will be a condition precedent to any exercise by OWNER or CONTRACTOR of such rights or remedies as either may otherwise have under the Contract Documents or by Laws or Regulations in respect of any such claim, dispute or other matter.

9.13 LIMITATIONS ON ENGINEER'S RESPONSIBILITIES:

9.13.1 Neither ENGINEER'S authority to act under this Article 9 or elsewhere in the Contract Documents nor any decision made by ENGINEER in good faith either to exercise or not exercise such authority shall give rise to any duty or responsibility of ENGINEER to CONTRACTOR, any Subcontractor, any Supplier, or any other person or organization performing any of the Work, or to any surety for any of them.

9.13.2 Whenever in the Contract Documents the terms "as ordered", "as directed", "as required", "as allowed", "as approved", or terms of like effect or import are used, or the adjectives "reasonable", "suitable", "acceptable", "proper" or "satisfactory" or adjectives of like effect or import are used to describe requirement, direction, review or judgment of ENGINEER as to the Work, it is intended that such requirement, direction, review or judgment will be solely to evaluate the Work for compliance with the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective shall not be effective to assign to ENGINEER any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility contrary to the provisions of paragraph 9.13.3 or 9.13.4.

9.13.3 ENGINEER will not be responsible for CONTRACTOR'S means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, and ENGINEER will not be responsible for CONTRACTOR'S failure to perform or furnish the Work in accordance with the Contract Documents.

9.13.4 ENGINEER will not be responsible for the acts or omissions of CONTRACTOR or of any Subcontractor, any Supplier, or of any other person or organization performing or furnishing any of the Work.

ARTICLE 10 - Changes in the Work

Without invalidating the Agreement and without notice to any surety, OWNER may, at any time or from time to time, order additions, deletions or revisions in the Work; these will be authorized by a Change Order, Field Order, or a Work Directive Change. Upon receipt of any such document, CONTRACTOR shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

10.1 CHANGE ORDERS: Change Orders shall be submitted using the Change Order AIA G701 form unless otherwise determined. Change orders may be issued by OWNER in one of the following manners:

10.1.1 Bilateral change order: Type of order issued to CONTRACTOR when OWNER and CONTRACTOR have agreed on the price and time adjustment made necessary by the particular change order.

10.1.2 Unilateral change order: Type of order issued to CONTRACTOR when OWNER and CONTRACTOR cannot agree on the price and/or time adjustment necessitated by the particular change order, within the scope of the project. The OWNER will issue the unilateral change order setting forth such price and/or time adjustments that ENGINEER shall deem reasonable. Any dispute in connection with the issuance of a unilateral change order shall be subject to the provisions of paragraph 9.11 and Article 16.

10.2 CHANGE ORDER CLAIM: If OWNER and CONTRACTOR are unable to agree as to the extent, if any, of an increase or decrease in the Contract Price or an extension or shortening of the Contract Time that should be allowed as a result of a Work Directive Change or Change Order, a claim may be made therefore as provided in Article 11 or Article 12.

10.3 CONTRACTOR shall not be entitled to an increase in the Contract Price or an extension of the Contract Time with respect to any Work performed that is not required by the Contract Documents as amended, modified and supplemented as provided in paragraphs 3.4 and 3.5, except in the case of an emergency as provided in paragraph 6.20 and except in the case of uncovering Work as provided in paragraph 13.9.

10.4 OWNER and CONTRACTOR shall execute appropriate Change Orders covering:

10.4.1 Changes in the Work which are ordered by OWNER pursuant to Article 10, are required because of acceptance of defective Work under paragraph 13.13 or correcting defective Work under paragraph 13.14 or are agreed to by the parties;

10.4.2 Changes in the Contract Price or Contract Time which are agreed to by the parties; and

10.4.3 Changes in the Contract Price or Contract Time which embody the substance of any written decision rendered by ENGINEER pursuant to paragraph 9.11; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, CONTRACTOR shall carry on the Work and adhere to the progress schedule as provided in paragraph 6.25.

10.5 If notice of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Time) is required by the provisions of any Bond to be given to a surety, the giving of any such notice will be CONTRACTOR'S responsibility, and the amount of each applicable Bond will be adjusted accordingly.

10.6 WRITTEN PROPOSALS: At any time ENGINEER may request a quotation from CONTRACTOR for a proposed change in the Work. Within 15 calendar days after receipt of a Notice of a Proposed Change, unless otherwise indicated in the Notice, CONTRACTOR shall submit a written and detailed proposal for an increase or decrease in the Contract Price or Contract Time corresponding to the proposed change. The proposal shall include an itemized estimate of all costs and time for performance that will result directly or indirectly from the proposed change. Unless otherwise directed, itemized estimates shall be in accordance with the requirements of Articles 11 and 12 and in sufficient detail to reasonably permit an analysis by ENGINEER of all material, labor, equipment, subcontract, and overhead costs and fees and shall cover all aspects of the work involved in the change, whether such was deleted, added, changed, or impacted. Any amount claimed for subcontracts shall be similarly supported. Itemized schedule adjustments shall be in sufficient detail to permit an analysis of impact. Notwithstanding the request for quotation, CONTRACTOR shall carry on the Work and maintain the progress schedule. Delays in the submittal of the written and detailed quotation will not constitute a basis for an increase in contract time.

10.7 FIELD ORDER: ENGINEER may authorize minor changes in the Work not involving an adjustment in the Contract Price or the Contract Time, which are consistent with the overall intent of the Contract Documents. These may be accomplished by a Field Order or in the approval of a shop drawing or sample, and shall be binding on CONTRACTOR. CONTRACTOR shall proceed with the performance of the changes in the Work so authorized by ENGINEER unless CONTRACTOR believes that such Field Order or approved shop drawing or sample entitles him to a change in the Contract Price or Time, or both, in which case CONTRACTOR shall give ENGINEER a written Notice of a Proposed Change thereof along with supporting documentation within 3 days of receipt of the Field Order or the approved shop drawing or sample and prior to commencing work. CONTRACTOR shall document the basis for the change in Contract Price or Time in accordance with paragraph 10.6 and the requirements of Article 11 and Article 12. Request for a Change Order to adjust Contract Price or Time arising out of a Field Order or an approved shop drawing will not be considered without the attachment thereto of a copy of the referenced Field Order or approved shop drawing. No claim by CONTRACTOR will be allowed if The Notice of a Proposed Change is submitted after Work on the Field Order or the approved shop drawing or sample has commenced, or after Final Payment under this Agreement.

10.8 CONTRACTOR'S ACCEPTANCE OF A CHANGE ORDER: The increase or decrease in Contract Price or Contract Time, or both stated in a Change Order signed by CONTRACTOR shall unequivocally comprise the total price and/or time adjustment due or owed for the Work or changes defined in the Change Order. By executing a Change Order,

CONTRACTOR acknowledges and agrees that the stipulated increases or decreases in Contract Price and/or time represent full compensation for all increases or decreases in the cost of or the time required to perform the entire Work under the contract arising directly or indirectly from the change, including the costs and delays associated with the interruption of schedules, extended overheads, delay, loss of momentum, acceleration to overcome delays and loss of momentum, and cumulative impacts or ripple effect on all other non-affected work under this contract. Such signing of a Change Order constitutes full and mutual accord and satisfaction for the adjustment in Contract Price or time as a result of increases or decreases in costs and time of performance caused directly and indirectly from the change, subject to the current scope of the Work as set forth in the Contract Documents. Acceptance of this waiver constitutes an agreement between OWNER and CONTRACTOR that the Change Order represents an equitable adjustment to the Contract, and that CONTRACTOR will waive all rights to file a claim on the Change Order after it is properly executed by OWNER and CONTRACTOR

10.9 If upon the review of any proposal or claim submitted by CONTRACTOR, ENGINEER or OWNER determines that an adjustment or that no adjustment in Contract Price or Contract Time is justified under the Contract documents, that determination shall be final and binding on CONTRACTOR unless CONTRACTOR files a subsequent written notice of claim in the form of a Notice of Proposed Change in accordance with Articles 11 and 12, referencing the disputed determination, and CONTRACTOR furnishes any additional supporting data requested by ENGINEER or OWNER.

ARTICLE 11 - Change of Contract Price

11.1 The Contract Price constitutes the total compensation (subject to authorized adjustments) payable to CONTRACTOR for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by CONTRACTOR shall be at his expense without change in the Contract Price.

11.2 The Contract Price may only be changed by a Change Order CONTRACTOR shall notify ENGINEER by means of a Written Notice of a Proposed Change within fifteen days, or earlier if so required elsewhere in the Contract Documents, of the occurrence of an event which CONTRACTOR believes entitles him to a change in the Contract Price. Supporting data shall be delivered within fifteen days of such notice or within thirty days of such occurrence, whichever is later, unless OWNER allows an additional period of time to ascertain accurate cost data. CONTRACTOR must prove that additional costs were necessarily incurred which meet the criteria set forth in Paragraph 10.4, despite CONTRACTOR'S reasonable, prudent, and diligent efforts to prevent such costs. Failure of CONTRACTOR to comply with the time requirements for written Notice of a Proposed Change or for submittal of supporting data shall be considered to be a waiver by CONTRACTOR of any claim for an addition to the Contract Price.

11.3 The value of any Work covered by a Change Order or of any claim for an increase or decrease in the Contract Price shall be determined in one of the following ways:

11.3.1 LUMP SUM PRICES INCLUDED IN THE CONTRACT: Where the Work involved is covered by lump sum prices included in the Proposal Documents, Schedule of Contract Items and Unit Price; the Contract Price shall be adjusted by the lump sum prices.

11.3.4 NEGOTIATED LUMP SUM: If the Contract Price is adjusted on the basis of an agreed to Lump Sum, and the costs are estimated in accordance with this Article 11.

11.3.5 COST OF THE WORK: If OWNER and CONTRACTOR cannot agree that any of the methods described in 11.3.1, 11.3.2, 11.3.3 or 11.3.4 above are appropriate for the proposed work, OWNER may direct CONTRACTOR to proceed on the basis of actual costs in accordance with Article 11.

11.3.6 UNILATERAL CHANGE ORDER: If OWNER and CONTRACTOR cannot agree on the price and/or time adjustment necessitated by the particular proposed change order, the OWNER may issue a unilateral change order setting forth such price and/or time adjustments that ENGINEER shall deem reasonable.

11.4 COST OF THE WORK: The term Cost of the Work means the sum of all costs necessarily incurred and paid by the CONTRACTOR in the proper performance of the Work. Except as otherwise may be agreed to in writing by OWNER,

such costs shall be in amounts no higher than those prevailing in the locality of the Project, shall include only the following items and shall not include any of the costs itemized in paragraph 11.5:

11.4.1 The Cost of the Work involved includes payroll costs for CONTRACTOR's craft labor, including foremen, assigned to the site and engaged in furnishing and incorporating materials or equipment in the Work involved. Labor work hours shall not exceed current "Means open Shop Building Construction Cost data" applicable to the work involved. Payroll costs shall include wages and may include those labor burdens expressly certified in advance by a duly authorized financial representative of CONTRACTOR and so approved by OWNER, Examples of labor burdens include social security, unemployment taxes, worker's compensation, health and retirement benefits, vacation and holiday pay. When determining actual payroll costs under paragraph 11.3.5: (a) contemporaneously, daily time sheets certified by CONTRACTOR and verified by ENGINEER along with certified payroll records shall be valid records; (b) after-the-fact daily time sheets shall be valid only if they expressly correlate to the Work involved, and if recorded at that time and used for payroll.

11.4.2 The Cost of the Work involved includes payments by CONTRACTOR to Suppliers for material and equipment used in the Work involved, including transportation, storage and necessary Suppliers' field services. All trade discounts, rebates and refunds and all returns from sale of surplus items shall accrue to OWNER, and CONTRACTOR shall make provisions so that they may be obtained. If required by OWNER, CONTRACTOR shall obtain bids for designated materials or equipment and nominate at least two (2) Suppliers for selection by OWNER. When determining actual Supplier costs, invoices segregating items associated with the Work involved shall be the record upon which to base actual costs.

11.4.3 The Cost of the work involved includes payments made by the CONTRACTOR to Subcontractor for the Work involved performed by the Subcontractor. The methods for calculating Subcontractors' costs shall be the same as for CONTRACTOR costs, except that the term Subcontractor shall replace the term "CONTRACTOR", context permitting. If OWNER requires, CONTRACTOR shall obtain detailed competitive sub-bids and nominate at least two (2) Subcontractors for the performance of any work involved for selection by OWNER.

11.4.3.1 All subcontracts shall be subject to the other provisions of the Contract Documents insofar as applicable.

11.4.4 Construction Equipment Costs: The Cost of the work involved includes costs for individual construction equipment with replacement value in excess of \$1,000,000. Transportation, loading and unloading, installation, dismantling and removal costs shall be allowed only if prior consent is obtained from ENGINEER, and if equipment is, or was, transported to the site solely for the Work involved. Shipping costs will be allowed if the equipment requires the use of a carrier, and provided the travel distance does not exceed that for equipment in St. John the Baptist Parish. When multiple attachments are used, only the highest cost attachment shall be recoverable. Equipment costs shall cease when the equipment is no longer needed for the Work involved. Payroll costs for labor operating the equipment are as specified in paragraph 11.4.1. Equipment costs shall be computed using the same accounting and estimating rules and prices, whether related to added or deleted Work.

11.4.4.1 When determining actual construction equipment costs under paragraph 11.3.5: (a) contemporaneously, daily logs of the equipment, operators and actual usage, verified by ENGINEER, shall be the valid records; (b) after-the-fact, such daily records shall be valid only if developed when the Work involved was performed and used for accounting purposes.

11.4.4.2 Rented or owned equipment at the site, idled solely by actions of OWNER or ENGINEER, shall be paid at the rates for rented equipment, or based on fifty percent (50%) of the rates for owned equipment, respectively, provided that the idle period exceeds that normally experienced for such equipment and occurs during normal working hours.

11.4.4.3 Rented or Leased Construction Equipment: Construction equipment rented or leased from third parties shall be priced using either the specific rates negotiated between OWNER and CONTRACTOR (based on the actual rental or lease agreements), or in the event that no agreement is reached, using those rates listed in the Rental Rate "Blue Book" published by Dataquest, Inc. for the region covering the New Orleans metropolitan area

and applicable to the equipment (model number and year), but in no event shall the rate exceed those issued by local equipment rental companies within St. John the Baptist Parish. The equipment rate for second or third shift Work shall not exceed fifty percent (50%) of the base rate. Operating costs shall not exceed the hourly operation rate in the Blue Book. Hourly rates for equipment previously in use on the work for at least a month shall be based on the monthly rate divided by 176 hours. Equipment previously in use for only one week or not previously in use at the site shall not be invoiced to OWNER at rates higher than the following schedule of equipment use and payment category: applicable to equipment listed in the Rental Rate "Blue Book"

Less than 8 hours	Hourly Rate
1 day but less than 7 days	Daily Rate
1 week but less than 30 days	Weekly Rate
30 days or more (when in use)	Monthly Rate

11.4.4.4 Owned Construction Equipment: Construction equipment Owned by CONTRACTOR, or rented or leased from lessors associated with or owned by CONTRACTOR, shall be priced using either the specific rates negotiated between OWNER and CONTRACTOR (based on rates consistent with CONTRACTOR's normal accounting practices), or in the event that no agreement is reached, using the rates listed in the "Contractor's Equipment Cost Guide" published by Dataquest, Inc. for the region covering the New Orleans metropolitan area, but in no event shall the equipment ownership costs exceed rental rates of local equipment rental companies within St. John the Baptist Parish and operating costs shall not exceed the hourly operation rate in the Blue Book. For multiple shifts, rates shall not exceed the shift Work adjustments recommended in the "Contractor's Equipment Cost Guide".

11.4.5 Supplemental costs including the following:

11.4.5.1 The proportion of necessary transportation, travel and subsistence expenses of CONTRACTOR'S employees incurred in discharge of duties connected with the Work.

11.4.5.2 Costs of field supplies and purchase costs (less market value if not consumed) of tools individually valued at less than \$1,000 that are not owned by the workers, if CONTRACTOR provides an itemized list of the field supplies and tools required for the performance of the Work involved; however, no such costs shall be allowed over 4% of the labor costs under paragraph 11.4.1, excluding burdens, unless CONTRACTOR furnishes detailed data sufficient to allow verification that a higher percentage is appropriate for the work involved.

11.4.5.3 Sales, consumer, use or similar taxes related to the Work, and for which CONTRACTOR is liable, imposed by Laws and Regulations.

11.4.5.4 Deposits lost for causes other than negligence of CONTRACTOR, any Subcontractor or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

11.4.5.5 Losses and damages (and related expenses), not compensated by insurance or otherwise, to the Work or otherwise sustained by CONTRACTOR in connection with the performance and furnishing of the Work, provided they have resulted from causes other than the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of OWNER. No such losses, damages and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's Fee. If, however, any such loss or damage requires reconstruction and CONTRACTOR is placed in charge thereof, CONTRACTOR shall be paid for services a fee proportionate to that stated in paragraph 11.6.2.

11.4.5.6 The costs of utilities, fuel and sanitary facilities at the site.

11.4.5.7 Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressage and similar petty cash items in connection with the Work.

11.4.5.8 Cost of premiums for additional Bonds and insurance required because of changes in the Work.

11.5 The term Cost of the Work shall not include any of the following:

11.5.1 Payroll costs and other compensation of CONTRACTOR'S officers, executives, principals (of partnership and sole proprietorships), general managers, engineers, architects, estimators, lawyers, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks and other personnel employed by CONTRACTOR whether at the site or in his principal or a branch office for general administration of the Work, all of which are to be considered administrative costs covered by the Contractor's Fee.

11.5.2 Expenses of CONTRACTOR'S principal and branch offices other than CONTRACTOR'S office at the site.

11.5.3 Any part of CONTRACTOR'S capital expenses, including interest on CONTRACTOR'S capital employed for the Work and charges against CONTRACTOR for delinquent payments.

11.5.4 Cost of premiums for all Bonds and for all insurance whether or not CONTRACTOR is required by the Contract Documents to purchase and maintain the same (except for the cost of premiums covered by subparagraph 11.4.4.9 above).

11.5.5 Costs due to the negligence of CONTRACTOR, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied and making good any damage to property.

11.5.6 Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in paragraph 11.4.

11.5.7 Attorney's Fees and/or Court Costs.

11.5.8 Costs or fees of consultants retained or utilized by CONTRACTOR, or his agents, for the purpose of making or filing a claim against OWNER, pursuing litigation or defending any claim and/or dispute.

11.5.9 CONTRACTOR shall not be allowed to include as part of the Cost of the Work involved any construction equipment or supplemental costs that cannot be shown to increase on account of, or are not directly attributable to, the performance of the Work involved. Payroll costs for the full time resident superintendent included within the requirements of paragraph 6.2.1 are but one example of such costs.

11.6 CONTRACTOR'S FEE: The CONTRACTOR'S fee allowed to CONTRACTOR for overhead and profit shall be determined by negotiations. The objective of negotiations shall be the exercise of sound business judgment including a fair and reasonable profit based on assumptions of risk, exposure to weather, size of the change, percent of subcontracted work, equipment requirements, and time of performance. In no case, however, shall the fee for overhead and profit exceed the following percentages of the various portions of the Cost of the Work:

11.6.1 For costs incurred under paragraphs 11.4.1 and 11.4.2, the CONTRACTOR'S fee shall not exceed 15%;

11.6.2 For costs incurred under paragraph 11.4.3, and for work performed by a CONTRACTOR'S Subcontractor, the CONTRACTOR'S fee shall not exceed 10% and the Subcontractor's fee shall not exceed 15%; for costs incurred under paragraph 11.4.3, and Work performed by a Subcontractor's Subcontractor, the CONTRACTOR'S and the Subcontractor's fee shall not exceed 5% and 5%, and the Subcontractor's fee shall not exceed 15%.

11.6.3 No fee shall be payable on the basis of costs itemized under paragraphs 11.4.4 and 11.5.

11.6.4 The amount of credit to be allowed by CONTRACTOR to OWNER for any such a change which results in a net decrease in cost will be the amount of the actual net decrease plus a deduction in CONTRACTOR'S fee in accordance

with the following:

11.6.5 When both additions and credits are involved in one change, and the additions exceed the credits, the adjustment in CONTRACTOR'S fee shall be computed on the amount by which the additions exceed the credits, except that no adjustments shall be allowed on the costs developed in accordance with paragraph 11.3.1;

11.6.6 When both additions and credits are involved in one change, and the credits exceed the additions, CONTRACTOR will be allowed to retain fee on the amount by which the credits exceed the additions, except that no adjustment shall be allowed on the costs developed in accordance with paragraph 11.3.1 or 11.3.2.

11.7 Whenever the cost of any Work is to be determined pursuant to paragraph 11.4 or 11.5, CONTRACTOR will submit in form acceptable to ENGINEER an itemized cost breakdown together with supporting data.

11.8 Bidders shall submit the included Louisiana Uniform Public Work Bid Form with bid. Each bid item shall be its own Item unit price or "Lump Sum" unit price, whichever applicable. Upon receipt of contract, the Contractor shall provide an itemized Schedule of Values.

11.9 UNIT PRICE WORK: (NOT USED)

ARTICLE 12: Change of Contract Time

12.1 The Contract Time may only be changed by a Change Order. Any claim or request for an extension in the Contract Time shall be based on a written Notice of a Proposed Change delivered to ENGINEER within seven days, or earlier if so required in the Contract Documents, of the occurrence of the event giving rise to the request or claim. Supporting data as to the extent of the request or claim shall be delivered within fifteen days of such Notice, or within twenty-two days of the event giving rise to the occurrence, whichever is later, unless ENGINEER allows an additional period of time to ascertain more accurate data. CONTRACTOR must prove that extensions to the Contract Time have materialized which meet the combined criteria set forth in paragraph 12.2 below and Official Progress Schedules of the General Requirements, despite CONTRACTOR'S reasonable, prudent, and diligent efforts to prevent or overcome such delays. Failure of CONTRACTOR to comply with the time requirements for written Notice or for submittal of supporting data shall be considered to be a waiver by CONTRACTOR of any claim for an extension in the Contract Time.

12.2 The Contract Time will be extended in an amount equal to the time lost due to delays beyond the control and without the fault of CONTRACTOR, and which CONTRACTOR could not have guarded against, if a claim is made therefore as provided in Paragraph 12.1 and is substantiated to the satisfaction of OWNER. Such delays may include, but not limited to, unusually severe weather, sink holes, archaeological finds, acts of God, acts of the public enemy, acts of OWNER in either its sovereign or contractual capacity, furnishing of lands, right-of-way or easements by OWNER, acts of another CONTRACTOR in the performance of a Contract with OWNER, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, or delays of Subcontractors or Suppliers at any tier arising from causes other than normal weather beyond the control and without the fault or negligence of both CONTRACTOR and such Subcontractors and Suppliers; and further provided that

12.2.1 The Contract Time is extended only to the extent that the delay is unreasonable under the Contract, which is the extent the delays set forth in paragraph 12.2 above exceed the Total Float Time available in the Official Schedule and extend completion of the Work, or specified part of the work, beyond the corresponding Contract Time.

12.3 If upon evaluation of CONTRACTOR's analysis, OWNER justifies an extension in Contract Time under paragraph 12.1 through 12.3 for delay not caused in whole or in part by acts or omissions within the control of OWNER or ENGINEER, the OWNER shall authorize the necessary change in Contract Time only.

12.4 COMPENSABLE DELAY:

12.4.1 Unless otherwise excluded in the Contract Documents, an extension in Contract Time may be combined with an increase in Contract Price to the extent the delay was not concurrent with CONTRACTOR delay, was caused in whole or in part by acts or omissions within the control of OWNER or ENGINEER and is due to one of the following: Underground

Facilities that are not shown (i.e., previously unknown); an emergency; objection, for OWNER's convince, to a Subcontractor, historic resources, uncovering of work not found to be defective under paragraph 13.9; delay under paragraph 7.5.3 or any other suspension of Work; changes in the Work; differing site conditions; and variation in quantities.

12.4.2 Changes in Contract Price for extensions in Contract Time may include increase in the Cost of the Work, as provided in Article 11, related to the extension in Contract Time, but shall exclude costs that are unaffected or do not relate to the extension in Contract Time, such as: (a) operating costs of construction equipment assigned to the Work on a continuous basis but primarily used in the furnishing and incorporating of materials/equipment into the Work, (b) operating costs and owned/rental costs of construction equipment used solely in the furnishing and incorporating of materials/equipment into the Work (crane used for specific lifts, concrete pump used for specific pours, etc.), and fully paid site facilities, tools, etc.

12.4.3 If a delay meeting the conditions of paragraph 12.4.1 delays Substantial completion of the Work beyond the Contract Time for Substantial Completion, OWNER shall negotiate with CONTRACTOR the reimbursement of an amount to cover administrative costs (under paragraphs 11.5.1 through 11.5.4) that will be or were unabsorbed prior to the expiration date of that contract Time. Reimbursement shall be based on the lesser of (a) five percent (5%) times that portion of the Contract Price remaining un-billed, less retainage, prior to the expiration of that Contract Time, or (b) the product of that un-billed portion of the Contract Price times the (companywide) ratio of CONTRACTOR's administrative costs to billings, or (c) that amount derived by an application of the Eichleay formula.

12.4.4 CONTRACTOR shall not recover from OWNER (a) acceleration costs incurred to overcome delays which warrant extensions in Contract Time but exclude changes in Contract Price, (b) escalation costs for any part of the Work not delayed beyond the Late Dates in the Official Schedule, or (c) delay costs not expressly allowed in this Article.

ARTICLE 13 - Warranty and Guarantee; Tests and Inspections: Correction, Removal or Acceptance of Defective Work

13.1 WARRANTY AND GUARANTEE: CONTRACTOR warrants and guarantees to OWNER and ENGINEER that all Work will be in accordance with the Contract Documents and will not be defective. Prompt notice of observed defects shall be given to CONTRACTOR. All defective Work, whether or not in place, may be rejected, corrected or accepted as provided in this Article 13.

13.1.1 The obligations of CONTRACTOR under this Paragraph 13.1 shall be in addition to and not in limitation of any obligation imposed upon him by special guarantees required by the Contract Documents or otherwise prescribed by law.

13.1.2 In special circumstances where a particular item of equipment or part of the Work reaches Substantial Completion upon successful performance of Pre-operational Testing, and notwithstanding anything in the Contract Documents to the contrary, CONTRACTOR shall maintain the particular item of equipment or part of the Work in good order and in proper working condition during the period between Substantial Completion and Initiation of Operation, and for such maintenance CONTRACTOR shall receive no adjustment to the Contract Price.

13.1.3 The warranty or guarantee provided by CONTRACTOR under Paragraph 13.1 of the General Conditions shall remain in full effect throughout the period from the date of Initiation of Operation of the entire work to the end of the Correction Period (as that term is defined in these General Conditions).

13.2 ACCESS TO WORK: ENGINEER and ENGINEER's representatives, other representatives of OWNER, testing agencies and governmental agencies with jurisdictional interests will have access to the Work at reasonable times for their observation, inspection and testing. CONTRACTOR shall provide proper and safe conditions for such access.

13.3 NOTICE OF TESTS AND INSPECTIONS: CONTRACTOR shall give ENGINEER timely notice of readiness of the Work for all required inspections, tests or approvals.

13.4 TESTS AND INSPECTIONS: If any laws or regulations of any public body having jurisdiction requires any Work (or part thereof) to specifically be inspected, tested or approved, CONTRACTOR shall assume full responsibility therefore, pay all costs in connection therewith and furnish ENGINEER the required certificates of inspection, testing or approval. CONTRACTOR shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with OWNER'S or ENGINEER's acceptance of a Supplier of materials or equipment proposed to be incorporated in the Work, or of materials or equipment submitted for approval to CONTRACTOR'S purchase thereof for incorporation in the work.

13.4.1 All construction testing and certifications required under the Specifications shall be performed by Certified Technicians from an Independent Testing Laboratory.

13.4.2 The Testing Laboratory shall submit to the ENGINEER three copies and to the CONTRACTOR one copy, of all applicable test data, certifications and reports as required. All required test data and material certifications for each respective item of work must be submitted to the ENGINEER prior to application for payment. Any applications not accompanied by required test data and/or certifications shall be recommended for payment at an amount not to exceed 50% of contract until cost of required test data and certifications are submitted and subsequently approved.

13.4.3 Upon completion of the project and prior to substantial completion, the testing laboratory shall certify that all testing and certification requirements of the specification have been satisfactorily met.

13.4.4 The CONTRACTOR is cautioned to provide termination provisions in its sub-agreement with the testing laboratory. In the event that the testing services prove not up to recognized standards, the ENGINEER reserves the right to withdraw his approval and require another laboratory be furnished by the CONTRACTOR at no increase in Contract Price.

13.5 All inspections, tests or approvals other than those required by laws or regulations of any public body having jurisdiction shall be performed by organizations acceptable to OWNER

13.6 If any Work (including the work of others) that is to be inspected, tested or approved is covered without written concurrence of ENGINEER, it must, if requested by ENGINEER, be uncovered for observation. Such uncovering shall be at CONTRACTOR'S expense unless CONTRACTOR has given ENGINEER timely notice of CONTRACTOR'S intention to cover the same and ENGINEER has not acted with reasonable promptness in response to such notice.

13.7 Neither observations by ENGINEER nor inspections, tests or approvals by others shall relieve CONTRACTOR from CONTRACTOR'S obligations to perform the Work in accordance with the Contract Documents.

13.8 UNCOVERING WORK: If any Work is covered contrary to the written request of ENGINEER, it must, if requested by ENGINEER, be uncovered for ENGINEER'S observation and replaced at CONTRACTOR'S expense.

13.9 PAYMENT FOR UNCOVERING WORK: If ENGINEER considers it necessary or advisable that covered Work be observed by ENGINEER or inspected or tested by others, CONTRACTOR, at ENGINEER'S request, shall uncover, expose or otherwise make available for observation, inspection or testing as ENGINEER may require, that portion of the Work in question, furnishing all necessary labor, material and equipment. If it is found that such work is defective, CONTRACTOR shall bear all direct, indirect and consequential costs of such uncovering, exposure, observation, inspection and testing, and of satisfactory reconstruction, (including but not limited to fees and charges of Engineers, Architects, Attorneys and other professionals), and OWNER shall be entitled to an appropriate decrease in the Contract Price, if the parties are unable to agree as to the amount thereof, may make a claim therefore as provided in Article 11. If, however, such Work is not found to be defective, CONTRACTOR shall be allowed an increase in the Contract Price of an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction; and, if the parties are unable to agree as to the amount or extent thereof, CONTRACTOR may make a claim therefore as provided in Articles 11 and 12.

13.10 OWNER MAY STOP THE WORK: If the Work is defective, or CONTRACTOR fails to supply sufficient skilled workmen or suitable materials or equipment, or fails to furnish or perform the Work in such a way that the completed Work will

conform to the Contract Documents, OWNER may order CONTRACTOR to stop the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of OWNER to stop the Work shall not give rise to any duty on the part of OWNER to exercise this right for the benefit of CONTRACTOR or any other party. In the event the OWNER stops the work pursuant to this paragraph 13.10, CONTRACTOR shall not be entitled to delay damages, including without limitation, demands for extended job site overhead, home office overhead, cumulative impacts, loss of productivity and efficiency, learning curve impacts, equipment down time and/or interest penalties, occasioned directly or indirectly by the stop work order.

13.11 CORRECTION OR REMOVAL OF DEFECTIVE WORK: If required by ENGINEER, CONTRACTOR shall promptly, as directed, either correct all defective Work, whether or not fabricated, installed or completed, or, if the Work has been rejected by ENGINEER, remove it from the site and replace it with non-defective Work. CONTRACTOR shall bear all direct, indirect and consequential costs of such correction or removal (including but not limited to fees and charges of engineers, architects, attorneys and other professionals, and court costs) made necessary thereby. CONTRACTOR shall not be entitled to time extension of the Contract Time for correction or removal of defective work.

13.12 ONE YEAR CORRECTION PERIOD: If within the period from the date of Substantial Completion of a particular item of equipment or a designated part of the work to one year after the date of Initiation of Operation for the Project, the particular item of equipment or designated part of the work is found to be defective, CONTRACTOR shall promptly, without an adjustment in Contract Price and in accordance with ENGINEER'S written instructions, either correct such defective Work, or if it has been rejected by ENGINEER, remove it from the site and replace it with non-defective work. If CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, OWNER may have the defective Work corrected or the rejected Work removed and replaced, and all direct, indirect and consequential costs of such removal and replacement, (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) will be paid by CONTRACTOR.

13.12.1 Subject to the conditions set forth in paragraphs 13.1.2 and 13.1.3 and the adjustments described in Subparagraphs 13.12.2, below, the Correction Period shall be one year.

13.12.2 Unless another date is indicated in the Contract Documents the date the Work is Substantially Complete shall be the date for Initiation of Operation to occur. However, OWNER may at its sole option advance or delay the date for Initiation of Operation, and CONTRACTOR'S obligations to extend warranties and guarantees in accordance with paragraph 13.1.2 and 13.1.3 or to maintain the Work in accordance with paragraph 13.1.2 until then shall remain absolute. Applicable Change Orders shall be executed by the parties to adjust the Contract Price, as appropriate.

13.12.3 CONTRACTOR'S responsibilities under the paragraph 13.12, including sub-paragraphs, are in addition to, not in lieu of, all other obligations imposed by these contract documents, or imposed by applicable State laws.

13.13 ACCEPTANCE OF DEFECTIVE WORK: If, instead of requiring correction or removal and replacement of defective Work, OWNER (and, prior to ENGINEER'S recommendations of final payment, also ENGINEER) prefers to accept it, OWNER may do so. CONTRACTOR shall bear all direct, indirect and consequential costs attributable to OWNER'S evaluation of and determination to accept such defective Work (such costs to be approved by ENGINEER as to reasonableness and to include but not be limited to fees and charges of engineers, architects, attorneys and other professionals). If any such acceptance occurs prior to ENGINEER'S recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, OWNER may make a claim therefore as provided in Article 11. If the acceptance occurs after such recommendation, an appropriate amount will be paid by CONTRACTOR to OWNER.

13.14 OWNER MAY CORRECT DEFECTIVE WORK: If CONTRACTOR fails within a reasonable time after written notice of ENGINEER to proceed to correct and to correct defective Work or to remove and replace rejected Work as required by ENGINEER in accordance with paragraph 13.11, or if CONTRACTOR fails to perform the Work in accordance with the Contract Documents, or if CONTRACTOR fails to comply with any other provision of the Contract Documents, OWNER may, after seven days' written notice to CONTRACTOR, correct and remedy any such deficiency. In exercising the rights and remedies under this paragraph OWNER shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, OWNER may exclude CONTRACTOR from all or part of the site, take possession of all or part of the Work, and suspend CONTRACTOR'S services related thereto, take possession of CONTRACTOR'S tools, appliances,

construction equipment and machinery at the site and incorporate in the Work all materials and equipment stored at the site or for which OWNER has paid CONTRACTOR but which are stored elsewhere. CONTRACTOR shall allow OWNER, OWNER'S representatives, agents and employees such access to the site as may be necessary to enable OWNER to exercise the rights and remedies under this paragraph. All direct, indirect and consequential costs of OWNER in exercising such rights and remedies shall be charged against CONTRACTOR in an amount approved as to reasonableness by ENGINEER, and a Change Order shall be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and OWNER shall be entitled to an appropriate decrease in the Contract Price, and, if the parties are unable to agree as to the amount thereof, OWNER may make a claim therefore as provided in Article 11. Such direct, indirect and consequential costs will include but not be limited to fees and charges of engineers, architects, attorneys and other professionals, all court and arbitration costs and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of CONTRACTOR'S defective Work. CONTRACTOR shall not be allowed an extension of the Contract Time because of any delay in performance of the Work attributable to the exercise by OWNER of OWNER'S rights and remedies hereunder.

ARTICLE 14 - Payments to Contractor and Completion

14.1 SCHEDULE OF VALUES: The schedule of values established as provided in paragraph 2.9 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to ENGINEER. Progress payments on account of Unit Price Work will be based on the number of units completed.

14.2 APPLICATION FOR PROGRESS PAYMENT: At least seven days before each progress payment falls due (but not more often than once a month), CONTRACTOR shall submit to ENGINEER for review an Application for Payment filled out and signed by CONTRACTOR covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents and also as ENGINEER may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by such data, satisfactory to OWNER, as will establish OWNER'S title to the material and equipment and protect OWNER'S interest therein, including applicable insurance. Only major items of material and equipment to be incorporated in the project will be eligible for payment. These items must be easily accountable by the ENGINEER. Payment for these materials will be invoice prices for the material, submitted with the request for payment, which price shall not exceed the appropriate portion of the contract items in which such materials are to be incorporated. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

14.2.1 Notwithstanding any other provisions of these contract documents to the contrary, OWNER is under no duty or obligation whatsoever to any Subcontractor, laborer or other party to ensure that payments due and owing by CONTRACTOR to any of them are or will be made. Such parties shall rely only on CONTRACTOR'S surety bonds for remedy of nonpayment by CONTRACTOR.

14.3 CONTRACTOR'S WARRANTY OF TITLE: CONTRACTOR warrants and guarantees that title to all Work, materials and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to OWNER no later than the time of payment free and clear of all Liens.

14.4 REVIEW OF APPLICATIONS FOR PROGRESS PAYMENT: ENGINEER will, within ten days after receipt of each application for Payment, either indicate in writing a recommendation of payment and present the Application to OWNER, or return the Application to CONTRACTOR indicating in writing ENGINEER'S reasons for refusing to recommend payment. In the latter case, CONTRACTOR may make the necessary corrections and re-submit the Application. Forty-five (45) days after presentation of the Application for Payment with ENGINEER'S recommendation, the amount recommended will (subject to the provisions of the last sentence of paragraph 14.7) become due and when due will be paid by OWNER to CONTRACTOR.

14.5 ENGINEER'S recommendation of any payment requested in an Application for Payment will constitute a representation by ENGINEER to OWNER, based on ENGINEER'S on-site observations of the Work in progress as an experienced and qualified design professional and on ENGINEER'S review of the Application for Payment and the

accompanying data and schedules that the Work has progressed to the point indicated; that, to the best of ENGINEER'S knowledge, information and belief, the quality of the Work is in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under paragraph 9.10, and to any other qualifications stated in the recommendation); and that CONTRACTOR is entitled to payment of the amount recommended. However, by recommending any such payment ENGINEER will not thereby be deemed to have represented that exhaustive or continuous on-site inspections have been made to check the quality or quantity of the Work beyond the responsibilities specifically assigned to ENGINEER in the Contract Documents or that there may not be other matters or issues between the parties that might entitle CONTRACTOR to be paid additionally by OWNER or OWNER to withhold payment to CONTRACTOR.

14.6 ENGINEER'S recommendation of final payment will constitute an additional representation by ENGINEER to OWNER that the conditions precedent to CONTRACTOR'S being entitled to final payment as set forth in paragraph 14.13 have been fulfilled.

14.7 ENGINEER may refuse to recommend the whole or any part of any payment if, in ENGINEER'S opinion, it would be incorrect to make such representations to OWNER. ENGINEER may also refuse to recommend any such payment, or, because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify and such payment previously recommended, to such extent as may be necessary in ENGINEER'S opinion to protect OWNER from loss because:

14.7.1 the Work is defective, or completed Work has been damaged requiring correction or replacement,

14.7.2 the Contract Price has been reduced by Change Order,

14.7.3 OWNER has been required to correct defective Work or complete Work in accordance with paragraph 13.14, or

14.7.4 of ENGINEER'S actual knowledge of the occurrence of any of the events enumerated in paragraphs 15.2.1 through 15.2.9 inclusive.

14.7.5 OWNER may refuse to make payment of the full amount recommended by ENGINEER because claims have been made against OWNER, or OWNER has claims against CONTRACTOR including but not limited to liquidated damages for anticipated or actual late completion, on account of CONTRACTOR'S performance or furnishing of the Work, or Liens have been filed in connection with the Work or there are other items entitling OWNER to a set-off against the amount recommended, but OWNER must give CONTRACTOR prompt written notice (with a copy to ENGINEER) stating the reasons for such action.

14.8 SUBSTANTIAL COMPLETION: When CONTRACTOR considers the entire Work ready for its intended use CONTRACTOR shall notify OWNER and ENGINEER in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR as incomplete) and request that ENGINEER issue a certificate of Substantial Completion. Within a reasonable time thereafter, OWNER, CONTRACTOR and ENGINEER shall make an inspection of the Work to determine the status of completion. If ENGINEER does not consider the Work substantially complete, ENGINEER will notify CONTRACTOR in writing giving the reason therefore. If ENGINEER considers the Work substantially complete, ENGINEER will prepare and deliver to OWNER a tentative certificate of Substantial Completion, which shall fix the date of substantial completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. OWNER shall have seven days after receipt of the tentative certificate during which he may make written objection to ENGINEER as to any provisions of the certificate or attached list. If, after considering such objections, ENGINEER concludes that the Work is not substantially complete, ENGINEER will within twenty-eight days after submission of the tentative certificate to OWNER notify CONTRACTOR in writing, stating his reasons. If after consideration of OWNER'S objections, ENGINEER considers the WORK substantially complete, ENGINEER will within said twenty-eight days execute and deliver to OWNER and CONTRACTOR a definitive certificate of Substantial Completion (with a revised tentative list of items to be complete or corrected) reflecting such changes from the tentative certificate as ENGINEER believes justified after consideration of any objections from OWNER. At the time of delivery of the tentative certificate of Substantial Completion, ENGINEER will deliver to OWNER and CONTRACTOR a

written recommendation as to division of responsibilities pending final payment between OWNER and CONTRACTOR with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties. Unless OWNER and CONTRACTOR agree otherwise in writing and so inform ENGINEER prior to ENGINEER'S issuing the definitive certificate of Substantial Completion ENGINEER'S aforesaid recommendation will be binding on OWNER and CONTRACTOR until final payment. Once determined the Work is identified as substantially complete a Certificate of Substantial Completion AIA G704 or other acceptable form will be issued.

14.9 EXCLUSION OF CONTRACTOR FROM SITE: OWNER shall have the right to exclude CONTRACTOR from the Work after the date of Substantial Completion, but OWNER shall allow CONTRACTOR reasonable access to complete or correct items on the tentative list.

14.10 PARTIAL UTILIZATION: Use by OWNER of any finished part of the Work, which has specifically been identified in the Contract Documents, or which OWNER, ENGINEER and CONTRACTOR agree constitutes a separately functioning and usable part of the Work that can be used by OWNER without significant interference with CONTRACTOR'S performance of the remainder of the Work, may be accomplished prior to Substantial Completion of all the Work subject to the following:

14.10.1 OWNER at any time may request CONTRACTOR in writing to permit OWNER to use any such part of the Work which OWNER believes to be ready for its intended use and substantially complete. If CONTRACTOR agrees, CONTRACTOR will certify to OWNER and ENGINEER that said part of the Work is substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. CONTRACTOR at any time may notify OWNER and ENGINEER in writing that CONTRACTOR considers any such part of the Work ready for its intended use and substantially complete and request ENGINEER to issue a certificate of Substantial Completion for that part of the Work. Within a reasonable time after either such request, OWNER, CONTRACTOR and ENGINEER shall make an inspection of that part of the Work to determine its status of completion. If ENGINEER does not consider that part of the Work to be substantially complete, ENGINEER will notify OWNER and CONTRACTOR in writing giving the reasons therefore. If ENGINEER considers that part of the Work to be substantially complete, the provisions of paragraphs 14.8 and 14.9 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.

14.10.2 OWNER may at any time request CONTRACTOR in writing to permit OWNER to take over operation of any such part of the Work although it is not substantially complete. A copy of such request will be sent to ENGINEER and within a reasonable time thereafter OWNER, CONTRACTOR and ENGINEER shall make an inspection of that part of the Work to determine its status of completion and will prepare a list of the items remaining to be completed or corrected thereon before final payment. If CONTRACTOR does not object in writing to OWNER and ENGINEER that such part of the Work is not ready for separate operation by OWNER, ENGINEER will finalize the list of items to be completed or corrected and will deliver such list to OWNER and CONTRACTOR together with a written recommendation as to the division of responsibilities pending final payment between OWNER and CONTRACTOR with respect to security, operation, safety, maintenance, utilities, insurance, warranties and guarantees for that part of the Work which will become binding upon OWNER and CONTRACTOR at the time when OWNER takes over such operation (unless they shall have otherwise agreed in writing and so informed ENGINEER). During such operation and prior to Substantial Completion of such part of the Work OWNER, shall allow CONTRACTOR reasonable access to complete or correct items on said list and to complete other related Work.

14.10.3 No occupancy or separate operation of part of the Work will be accomplished prior to compliance with the requirements of paragraph 5.7 in respect of property insurance.

14.11 LIEN PERIOD: Within twenty-one (21) days of the receipt of the definitive Certificate of Substantial Completion from ENGINEER, OWNER shall adopt and record a Resolution of Acceptance with the Recorder of Mortgages of the Parish in which the Agreement has been recorded. The recording of this Resolution of Acceptance shall commence a lien period of not less than forty-five (45) consecutive calendar days, during which period the retainage will be withheld by OWNER. After the said lien period, CONTRACTOR shall be responsible for obtaining from the Recorder of Mortgages a Certificate that the Agreement at the end of said forty-five day period, is clear of all liens, privileges, judgments or

encumbrances of any nature whatsoever, which certificate he shall submit with his application for final payment to ENGINEER.

14.12 FINAL INSPECTION: Upon written notice from CONTRACTOR that the entire Work or an agreed portion thereof is complete, ENGINEER will make a final inspection with OWNER and CONTRACTOR and will notify CONTRACTOR in writing of the particulars in which this inspection reveals that the Work is incomplete or defective. CONTRACTOR shall immediately take such measures as are necessary to remedy such deficiencies.

14.13 FINAL APPLICATION FOR PAYMENT: After CONTRACTOR has completed all such corrections to the satisfaction of the ENGINEER, and delivered four (4) sets of all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, marked-up record documents (as provided in paragraph 6.17) and other documents, all as required by the Contract Documents, and after ENGINEER has indicated that the Work is acceptable (subject to the provisions of paragraph 14.17), CONTRACTOR may make application for final payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to OWNER) of all Liens arising out of or filed in connection with the Work. In lieu thereof and as approved by OWNER, CONTRACTOR may furnish receipts or releases in full; an affidavit of CONTRACTOR that the releases and receipts include all labor, services, material and equipment for which a Lien could be filed, and that all payrolls, material and equipment bills, and other indebtedness connected with the Work for which OWNER or OWNER'S property might in any way be responsible, have been paid or otherwise satisfied; and consent of the surety, if any, to final payment. If any Subcontractor or Supplier fails to furnish a release or receipt in full, CONTRACTOR may furnish a Bond or other collateral satisfactory to OWNER to indemnify OWNER against any Lien.

14.13.1 Notwithstanding any provision of the Contract Documents to the contrary, OWNER shall not be deemed to have accepted the work or to have waived claims against CONTRACTOR as provided in Paragraph 14.16 until (i) Initiation of Operation and (ii) payment of all remaining amount of the Contract Price.

14.13.2 As a condition to payment of all remaining portions of the Contract Price of the Unit Price Agreement, CONTRACTOR shall perform all Startup Testing and shall notify ENGINEER that the work is ready for final inspection. Such Startup Testing and notice to ENGINEER may be accomplished only after CONTRACTOR delivers written notice of the expected date of Initiation of Operation.

14.13.3 The requirements and provisions of Paragraphs 14.11, 14.12, and 14.13 of the General Conditions shall apply to payment of the remaining Contract Price pursuant to the *Unit Price Agreement*, as well to *final payment under the Unit Price Agreement*.

14.14 FINAL PAYMENT AND ACCEPTANCE: If, on the basis of ENGINEER'S observation of the Work during construction and final inspection, and ENGINEER'S review of the final Application for Payment and accompanying documentation - all as required by the Contract Documents, ENGINEER is satisfied that the Work has been completed and CONTRACTOR'S other obligations under the Contract Documents have been fulfilled, ENGINEER will, within ten days after receipt of the Final Application for Payment, indicate in writing ENGINEER'S recommendation of payment and present the Application to OWNER for payment. Thereupon ENGINEER will give written notice to OWNER and CONTRACTOR that the Work is acceptable subject to the provisions of paragraph 14.17. Otherwise, ENGINEER will return the Application to CONTRACTOR, indicating in writing the reasons for refusing to recommend final payment, in which case CONTRACTOR shall make the necessary corrections and re-submit the Application. Thirty days after presentation to OWNER of the Application and accompanying documentation, in appropriate form and substance, and with ENGINEER'S recommendation and notice of acceptability, the amount recommended by ENGINEER will become due and will be paid by OWNER to CONTRACTOR.

14.15 If, through no fault of CONTRACTOR, final completion of the Work is significantly delayed and if ENGINEER so confirms, OWNER shall, upon receipt of CONTRACTOR'S final Application for Payment and recommendation of ENGINEER, and without terminating the Agreement, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by OWNER for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if Bonds have been furnished as required in paragraph 5.1,

the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by CONTRACTOR to ENGINEER with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

14.16 CONTRACTOR'S CONTINUING OBLIGATION: CONTRACTOR'S obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. Neither recommendation of any progress or final payment by ENGINEER, nor the issuance of a certificate of Substantial Completion, nor any payment by OWNER to CONTRACTOR under the Contract Documents, nor any use or occupancy of the Work or any part thereof by OWNER, nor any act of acceptance by OWNER nor any failure to do so, nor any review and approval of Shop Drawing or sample submission, nor the issuance of a notice of acceptability by ENGINEER pursuant to paragraph 14.14, nor any correction of defective Work by OWNER will constitute an acceptance of Work not in accordance with the Contract Documents or a release of CONTRACTOR'S obligation to perform the Work in accordance with the Contract Documents (except as provided in paragraph 14.17).

14.17 WAIVER OF CLAIMS: The making and acceptance of any final payment will constitute:

14.17.1 A waiver of all claims by OWNER against CONTRACTOR, except claims previously made in writing and still unsettled, or claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to paragraph 14.12 or from failure to comply with the Contract Documents or the terms of any special guarantees specified herein; however, it will not constitute a waiver by OWNER of any rights in respect of CONTRACTOR'S continuing obligations under the Contract Documents; and

14.17.2 a waiver of all claims by CONTRACTOR against OWNER other than those previously made in writing and still unsettled.

ARTICLE 15 - Suspension of Work and Termination

15.1 OWNER MAY SUSPEND WORK: OWNER may, at any time and without cause, suspend the Work or any portion thereof by notice in writing to CONTRACTOR and ENGINEER which will fix the date on which Work shall be resumed. CONTRACTOR shall resume the Work on the date so fixed. CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension if CONTRACTOR makes an approved claim therefore as provided in Articles 11 and 12. If OWNER stops work under Paragraph 13.10 or suspends CONTRACTOR'S services under paragraph 13.14, or suspends the work or any portion thereof because of CONTRACTOR'S failure to prosecute the Work without endangering persons and property, CONTRACTOR shall be entitled to no extension of Contract Time or increase in Contract Price.

15.2 OWNER MAY TERMINATE: OWNER may terminate CONTRACTOR's services for cause upon the occurrence of any one or more of the following events:

15.2.1 If CONTRACTOR commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereafter in effect, or if CONTRACTOR takes any equivalent or similar action by filing a petition otherwise under any other federal or state law in effect at such time relating to the bankruptcy or insolvency;

15.2.2 If a petition is filed against CONTRACTOR under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against CONTRACTOR under any other federal or state law in effect at the time relating to bankruptcy or insolvency;

15.2.3 If CONTRACTOR makes a general assignment for the benefit of creditors;

15.2.4 If a trustee, receiver, custodian or agent of CONTRACTOR is appointed under applicable law or under contract, whose appointment or authority to take charge of property of CONTRACTOR is for the purpose of enforcing a Lien against such property or for the purpose of general administration of such property for the benefit of CONTRACTOR'S creditors;

15.2.5 If CONTRACTOR admits in writing an inability to pay its debts generally as they become due;

15.2.6 If CONTRACTOR persistently fails to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the progress schedule established under paragraph 2.9 as revised from time to time);

15.2.7 If CONTRACTOR disregards Laws or Regulations of any public body having jurisdiction;

15.2.8 If CONTRACTOR disregards the authority of ENGINEER; or

15.2.9 If CONTRACTOR otherwise violates in any substantial way any provisions of the Contract Documents;

In such case, CONTRACTOR shall not be entitled to receive any further payment beyond an amount equal to the value of the Work actually completed and the value of materials and equipment not incorporated in the Work but delivered and suitably stored, less the aggregate of payments previously made. If the direct and indirect costs of completing the Work exceed the unpaid balance of the Contract Price, CONTRACTOR shall pay the difference to OWNER. Such costs incurred by OWNER shall be incorporated in a Change Order, but in finishing the Work, OWNER shall not be required to obtain the lowest figure for the work performed. CONTRACTOR'S obligations to pay the difference between such costs and such unpaid balance shall survive termination of the Agreement.

15.3 Where CONTRACTOR'S services have been so terminated by OWNER, the termination will not affect any rights or remedies of OWNER against CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due CONTRACTOR by OWNER will not release CONTRACTOR from liability.

15.4 TERMINATION FOR CONVENIENCE: Upon seven days' written notice to CONTRACTOR and ENGINEER, OWNER may, without cause and without prejudice to any other right or remedy, elect to abandon the Work and terminate the Agreement.

15.4.1 In any termination for convenience, CONTRACTOR shall be paid for (a) Work completed, in accordance with the Contract Documents, before receipt of the notice of termination, and (b) reasonable termination settlement costs for commitments that have become firm before the termination. CONTRACTOR shall not be paid any anticipated and unrealized supplemental costs, administrative expenses and profit for uncompleted Work. If no agreement can be reached as to reasonable termination costs, OWNER and CONTRACTOR shall follow the provisions in federal regulation FAR 52.249-2, found in 48 CFR Part 52.

15.4.2 Upon termination for convenience, OWNER shall have full power and authority to take possession of the Work, assume any sub-agreements with Subcontractors and Suppliers that OWNER selects, and prosecute the Work to completion by contract or as OWNER may deem expedient.

15.4.3 If after notice of termination of the services of CONTRACTOR for cause, it is determined that CONTRACTOR was not in default, the termination shall be deemed to have been for the convenience of OWNER. In such event, CONTRACTOR may recover from OWNER payment for Work completed and reasonable termination costs as provided in paragraph 15.4.1.

15.5 CONTRACTOR MAY STOP WORK OR TERMINATE: If, through no act or fault of CONTRACTOR, the Work is suspended for a period of more than ninety days by OWNER or ENGINEER fails to act on any Application for Payment within sixty days after it is submitted, or OWNER fails for sixty days to pay CONTRACTOR any sum finally determined to be due, then CONTRACTOR may, upon seven days' written notice to OWNER and ENGINEER, terminate the Agreement and recover from OWNER payment for all Work executed and any expense sustained plus reasonable termination expenses. In addition and in lieu of terminating the Agreement, if ENGINEER has failed to act on an Application for Payment or OWNER has failed to make any payment as aforesaid, CONTRACTOR may upon seven days' written notice to OWNER and ENGINEER stop the Work until payment of all amounts then due. The provisions of this paragraph shall not relieve CONTRACTOR of his obligations under paragraph 6.29 to carry on the Work in accordance with the progress schedule and without delay during disputes and disagreements with OWNER.

ARTICLE 16 - Dispute Resolution

16.1 Subject to the conditions set forth in subparagraphs 16.2, 16.2.1 and 16.2.2 hereof, all claims, disputes and other matters and questions arising out of or relating to the Contract Documents or the breach thereof, except claims waived by the making and accepting of final payment as provided in Section 14.17, shall be decided by arbitration between the parties. This agreement to arbitrate shall be specifically enforceable under the Louisiana Arbitration Act and the award rendered by the arbitrators shall be final and a judgment may be entered thereon in the State District Court for the Parish of St. John the Baptist, State of Louisiana.

16.2 Any arbitration provided for hereunder will be conducted in accordance with the Construction Arbitration Rules of the American Arbitration Association (AAA), subject to the following:

16.2.1 OWNER shall not be compelled to arbitrate any dispute without its express consent given in writing after demand is made for arbitration.

16.2.2 Arbitration shall be conducted in St. John the Baptist Parish, Louisiana and the laws of the State of Louisiana shall be controlling as to matters of law.

16.3 Subject to any recognized privilege, discovery shall be available to each party to the arbitration as it would be available in the District Court for the Parish of St. John the Baptist under the provisions of the LA Code of Civil Procedure in effect at the time of demand for arbitration. Notices, time periods and other procedural matters shall be governed by the rules that apply in Louisiana District Courts which shall be enforced by the AAA in the same manner as in the Louisiana District Court.

16.4 A pre-hearing conference shall be held not sooner than sixty (60) days after the filing of the answer, at which time a pre-hearing summary shall be filed by each party, setting forth all claims and counterclaims with specificity, all witnesses expected to be called at the hearing, all documents proposed to be introduced, and all items of claimed damages including dollar amounts therefore.

16.5 All discovery and amendments to the pre-hearing summary shall be concluded thirty (30) days prior to the arbitration date. Failure on the part of the CONTRACTOR to provide the foregoing discovery and disclosure shall render any claim supported by witnesses or documents not so disclosed null, void and waived.

16.6 In the event of any arbitration demanded and agreed to by the OWNER, each party shall select an arbitrator and the two so selected shall select a third from a panel proposed by the AAA. In the event that the two cannot agree upon an neutral arbitrator from the AAA list within thirty (30) days, then the third arbitrator shall be designated by the AAA.

16.7 In the event OWNER so elects, CONTRACTOR shall be required to participate in a consolidated arbitration to include the ENGINEER.

16.8 The arbitrators shall render a written decision, with conclusions of law and findings of fact, breaking down the items of any award on the claim or counterclaim in sufficient detail to enable OWNER to seek any grant reimbursement as may be available.

16.9 Notwithstanding anything else in the Contract Documents to the contrary, the CONTRACTOR shall carry on the work and maintain its progress during litigation or any arbitration proceedings, and OWNER shall continue to perform and pay as otherwise required by the Contract Documents.

16.10 In the event OWNER elects not to arbitrate one or more disputes, the dispute or disputes which the OWNER elects not to arbitrate shall be decided under the laws of the State of Louisiana in the 40th Judicial District Court in and for the Parish of St. John the Baptist, State of Louisiana.

16.11 In the event OWNER is required to defend itself against any claim for delay, the OWNER shall be entitled to recover costs, including without limitation, administrative costs, attorneys' fees and court costs, from the party causing the delay.

ARTICLE 17 - Miscellaneous

17.1 GIVING NOTICE: Whenever any provisions of the Contract Documents requires the giving of written notice, it shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

17.2 COMPUTATION OF TIME:

17.2.1 When any period of time is referred to in the Contract Documents by days, it shall be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

17.2.2 A calendar day of twenty-four hours measured from midnight to the next midnight shall constitute a day.

17.3 UTILIZATION OF LOCAL LABOR (STATE RESIDENTS): Contractor shall make every effort to use local labor to the fullest extent possible.

17.4 GENERAL: Should OWNER or CONTRACTOR suffer injury or damage to person or property because of any error, omission or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, claim will be made in writing to the other party within a reasonable time of the first observance of such injury or damage. The provisions of this paragraph

17.3 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitations or repose.

17.5 DUTIES AND OBLIGATIONS: The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto, and, in particular but without limitation, the warranties, guarantees and obligations imposed upon CONTRACTOR by paragraphs 6.26, 13.1, 13.12, 13.14, 14.3 and 15.2 and all of the rights and remedies available to OWNER and ENGINEER thereunder, are in addition to, and shall not be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee or by other provisions of the Contract Documents, and the provisions of this paragraph shall be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right and remedy to which they apply. All representations, warranties and guarantees made in the Contract Documents will survive final payment and termination or completion of this Agreement. Also, the obligation of CONTRACTOR to maintain the Work until Initiation of Operation shall survive final payment and termination and completion of this Agreement.

Section 06

SPECIAL CONTRACT PROVISIONS

PART 1 – SUPPLEMENTARY CONDITIONS (DAILY EMERGENCY WORK)

1.01 SCOPE OF CONTRACT WORK

The purpose of this contract is to provide means to perform emergency replacement and repair of existing sanitary sewer lines and work incidental thereto to supplement existing Sewer Department work crews on day-to-day maintenance and emergency repairs. The project is for high priority jobs dealing with public safety and maintenance of the Parish sewer system and is vital to ensure the citizens of St. John the Baptist Parish have a safe and operational sewer system without unnecessary interruption. These replacements/repairs will be done on an as-needed basis only and no minimum expenditure is guaranteed under this contract. Payment for work performed shall be on a unit price basis. Actual quantities used may fall below or exceed the estimated quantities listed on the bid form. It is intended to issue work orders or work directives as needed to perform repairs at various locations throughout St. John the Baptist Parish. The St. John Utilities Department will provide the use of the property located at **900 Woodland Dr. Laplace, LA 70068** for the convenience of the contractor. The contractor on a regular basis shall maintain this property for the duration of the contract. The grass/weeds shall be cut, stock material shall be stacked above ground and away from any spoil material, spoil material shall be removed on a regular basis, mud/debris shall be cleaned from trucks prior to leaving yard and entering Woodland Drive. In the event that these conditions are not being met, St. John the Baptist Parish shall reserve the right to bring in outside forces to complete the necessary work and charge the contractor. Any damage resulting from the actions of the contractor shall be restored to its pre-existing or better condition at no additional cost. In the event that these conditions are not being met, St. John the Baptist Parish shall reserve the right to bring in outside forces to complete the necessary work and charge the contractor. All work under this contract must conform to the contract documents, specifications, and typical details of this bid package and conform with all applicable regulatory agency guidelines & requirements.

The contractor is made aware that, because of the nature of this contract, it may be necessary to make repairs on an emergency 24 hours. seven (7) day a week, at night, weekends, and holidays. Any work done after 4:30 p.m., weekends, and holidays, will be considered premium time and will be paid at an additional one half (1/2) hour for every labor hour worked. There will be no premium time for equipment. The contractor must have two (2) assigned current employees, one primary and one backup, on a 24-hour basis available to coordinate work initiation. The contact information for the assigned personnel shall be provided to the Parish and maintained throughout the entire length of the contract. The Parish has the right to request personnel be replaced.

In the event work is halted during an assigned weekday job as a result of the contractor's responsibility, i.e., equipment failure, lack of necessary equipment, insufficient crew size, etc., and later resumed, premium labor time for work done after 4:30 p.m. will be reduced by the amount of time work was halted.

The Contractor will furnish all the labor and equipment required to perform the scope of work for this project in accordance with the plans/details, specifications, and contract documents and for any other unforeseen and/or emergency work authorized by the Owner. The Owner may provide the Contractor with certain materials for use with this project, such as pipes, valves, fittings, sleeves, meters, valve boxes, fire hydrants. etc., with the exception of material required for HDPE pipe installation. It is anticipated the Contractor will need to furnish, at a minimum, the materials listed below as may be required to perform the work included in this project. Items not anticipated to be furnished by the Owner and to be furnished by the Contractor may include the following:

- temporary & permanent sheeting & bracing;
- structural concrete for paved surfaces, manholes, valve pads and other structure foundations/slabs;
- asphaltic concrete; prime/tack coat; paving bedding and base materials;
- temporary & permanent pavement striping & markings; traffic control devices;
- granular material and other backfill materials;
- steel reinforcement, including wire mesh, rebar/dowels, dowel sleeves, baskets, pins, etc.;
- concrete paving reinforcing fibers; lumber & accessories for form work;
- gravel;
- pavers of any type;
- bricks;
- mortar;
- landscaping items, including shrubs/plants, slab sodding, seeding, fertilizer, mulch, etc.;
- joint materials; grout; caulk; sealants;
- ductile iron fittings;
- steel hatches;
- ADA truncated domes;
- engineering fabrics, including geotextile & geogrid;
- timber for pipe trench supports;
- bollards; and
- saw blades.

For Owner supplied materials, only a sufficient quantity required for the current intended work will be provided at a time. The Contractor will be responsible for coordinating with the Parish as to availability of materials and to arrange for pickup at the Parish staging area / yard. This does not relieve the Contractor of his responsibility to maintain and to be able to furnish a sufficient quantity of materials needed to perform the typical type of work included in the project. The Contractor shall not be allowed to pull materials from the Parish warehouse or storage facilities. Repair materials that are needed for a job and are not available in Parish stocks at the time of repair and are not included as bid items may be furnished by the Parish through regular or emergency Parish requisitions and/or may be furnished by the contractor at his actual face value cost. These third-party invoices shall be attached to the contractor's billing invoice for payment.

The actual face value cost for Contractor supplied materials shall cover the manufacturer's cost (or supplier's cost) plus shipment cost by others, subject to Parish approval. The overall reimbursed cost should be prorated on a unit cost, or a percentage

basis, based on the actual quantity utilized for the actual work performed. Invoices shall be submitted to the Parish prior to payment. This contract is a labor-intensive type of contract; therefore, contractors should consider all matters of labor and overhead and build in the necessary overhead and profit into the bid prices for each bid item indicated. The cost of any incidental drayage between the local supply vendor and the job site and any restocking charges will not be considered for reimbursement. The Contractor is encouraged to carry any necessary insurance to cover any losses resulting from the theft of equipment, materials, tools, and other supplies.

The successful low bidder must have a minimum of one (1) certified welder and one (1) certified pipe fitter. Parish approved sub-contracted employees are permissible for welding/pipe fitting services. One employee can provide welding and pipe fitting services if certified in both disciplines. The bidder must submit a list of proposed welder/pipe fitters with relevant certifications with the required 10-day documents. Said welders/pipe fitters must have previous experience repairing, welding, and fitting pipe types typically utilized for water facilities and systems.

All bidders wishing to use the services of sub-contractors must submit a list of all subcontractors for approval by the Parish prior to the performance of any work under the terms of this contract. Subcontractor license & certification documentation, and/or past performance experience, for the services to be provided by their personnel shall be provided upon request by the Parish prior to the performance of any work by said subcontractor.

The contractor must have the ability and resources to fabricate fittings (i.e., PCCP, ductile iron) for repair of water mains. This fabrication will lessen down time when these fittings cannot be purchased and delivered from a supply house in an emergency situation. The maximum allowable time will be 24 hours.

1.02 LOUISIANA LICENSE REQUIREMENTS

The State of Louisiana regulations require that any prospective bidder on construction contracts of \$50,000.00 or greater possess the proper Louisiana contractor's license before he will be allowed to acquire copies of bidding documents in accordance with LAR.S.37:2150 et seq. This required license category is **Municipal and Public Works Construction**.

The successful contractor performing services under the terms of the contract shall, by entering said contract, waive jurisdiction and venue and submit to the jurisdiction of the district courts for St. John the Baptist Parish, regardless of the contractor's residence or domicile.

1.03 FAMILIARIZATION WITH THE WORK

Before submitting his bid, each prospective bidder shall familiarize himself with the work, local labor conditions and all laws, regulations and other factors affecting performance of the work. He shall carefully correlate his observations with the requirements of the contract documents and otherwise satisfy himself of the expense and difficulties for performance of the work. The submission of a bid will constitute a representation of

compliance by the bidder. There will be no subsequent financial adjustment for lack of such familiarization.

1.04 PRE-BID CONFERENCE

All prospective bidders are invited to attend the mandatory pre-bid conference which will be held at 10:00 A.M. local time on July 30, 2026 in the St. John the Baptist Parish Government Building at 1811 W. Airline Hwy. LaPlace, LA 70068. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.

1.05 CONTRACT TIME

The Contract Time will commence at the time specified in the notice to proceed with a \$1,000,000.00 initial cap and a one-year renewal option without price escalation.

If St. John the Baptist Parish has not entered a new contract for the same scope of work prior to the initial one-year term expiration from the date of execution of the Agreement then this contract shall be automatically extended for one (1) additional year.

1.06 SUBCONTRACTOR QUALIFICATIONS

The contractor may complete his bid by utilization of subcontractors; however, no payment will be made by St. John the Baptist Parish to the subcontractor for any work performed under the terms of this contract. The contractor assumes all responsibility for the work performed by his subcontractor(s). Any subcontractor utilized must have prior experience and be properly licensed and certified for the services to be performed for their respective portions of the work. Under the terms of this contract, the combined subcontractor effort shall be limited to a maximum of twenty-five percent (25%) of total work performed, unless otherwise determined. The maximum total percentage of work performed by all subcontractors, however, must remain less than fifty (50%) percent in aggregate. Additionally, all subcontract work shall be governed by all provisions of this contract.

The prime bidder shall submit the following information with bid:

- A. **A designation of the work to be performed with his own forces.**
- B. **A list of names of the subcontractors proposed by the contractor for work to be performed under the terms of this contract.**

Prior to the award of the contract the contract administrator will notify the bidder if St. John, after due consideration and investigation, has reasonable and substantial objection to any person or organization on the successful contractor's list of proposed subcontractors. The bidder will then be allowed to submit substitute subcontractor/subcontractors acceptable to St. John the Baptist Parish. Subcontractor license & certification documentation, and/or

past performance experience, shall be provided upon request by the Parish prior to the performance of any work by said subcontractor.

1.07 WORK SCHEDULING

Because of the nature of this contract, it may be necessary for the contractor to respond to emergencies (i.e., "emergency" work) immediately upon notification and be on site within one (1) hour of notice / call out. For "emergency" work, labor and equipment charges will begin for crew(s)/personnel upon notification for "emergency" work. For all other authorized "unforeseen", "non-emergency" work, not covered by other contract items of work and requirements, labor and equipment charges shall not commence until the adequate personnel and equipment is on site to begin repairs. Labor premium time will be paid at an additional one half (1/2) hour for every labor hour worked outside of normal work hours (Mon.-Fri. 7:00 a.m. to 4:30 p.m.), including work on weekends and holidays, and will end upon completion of the repair, or at the time specific crews/personnel are no longer needed for the remaining work. There will be no premium time for equipment. No travel time will be reimbursed for "non-emergency" work.

A "work order" shall constitute successfully completing one authorized repair location, inclusive of performing all work items associated with the required pay items and other incidentals.

The contractor will be issued work orders or directives to proceed with a "point repair" or other items of work and at that time be furnished with the approximate location and general description of the work to be done. This will be done through a daily "issuance report" emailed and/or verbally communicated to the primary point of contact for the contractor by a Parish representative with issuance report to follow.

The work orders shall be prioritized, and work shall commence as follows: "emergency" work and then other issued work orders or directives in the order of receipt, or as directed by the Parish. Emergency response work will be directed by Utilities Department personnel. Emergency work orders or directives shall commence immediately, and the Contractor shall respond to the site of an emergency within one (1) hour to secure the location and address any potential environmental hazards and public health and safety concerns. The Contractor shall begin working on the repairs for emergency situations within twenty-four (24) hours of the emergency situation notification, or as directed by the Assistant Director of the Utilities Department or his designated Representative. Work is to continue by the Contractor as required until the repair is complete (beyond normal working hours if required), or until such time as agreed upon by designated Utilities Department Representative that the emergency repair has reached a stabilized situation, which would allow for work to temporarily cease, and recommence for final completion during normal working hours. All other non-emergency work orders or directives issued shall be responded to within 48 hours of issuance, or as otherwise directed by the Parish.

Failure of the contractor to meet the above time constraints will result in the following:

- A. Have the work performed by others and back charged to the contractor: or
- B. Persistent failure of the contractor to meet the response deadlines (3 occurrences or more) may lead to contract termination. Notification of deficient

performance will be by certified mail.

The failure of St. John the Baptist Parish to assert a breach for the failure of the contractor to perform at any time shall not be construed to be a waiver of St. John the Baptist Parish's rights hereunder.

Each work order will be designated by a specific work order number. All correspondence, billing, etc., shall reflect that work order number.

The contractor shall furnish the Parish a weekly log in spread sheet form indicating the following: work order number, date work order received, work location (street address), scheduled start date, actual start date, actual repair completion date, actual restoration completion date, and cost. This log shall be provided with all submitted invoices and all project progress meetings, or as otherwise requested. Progress meetings will be periodically held among representatives of the contractor and St. John the Baptist Parish personnel to allow the Parish to monitor progress and coordinate activities related to this contract.

If the contractor does not diligently proceed with the work, then the issuance of additional work orders will be withheld.

1.08 WORK ON PRIVATE PROPERTY

The contractor shall be aware that his work will be performed adjacent to private property. The contractor shall avoid use of private property by both personnel, equipment, spoil, etc. unless permission is obtained by property owner. The contractor shall notify by door tags, prior to the start of work in the area, all property owners adjacent to and along the route of construction. The door tag shall include names and telephone numbers for key personnel so that property owners can report problems. These contact telephone numbers shall be given so that appropriate personnel can be contacted 24 hours a day, seven (7) days a week.

1.09 NOTIFICATION OF WORK INTENDED

The contractor shall make every attempt to notify all adjacent property owners of his intended work. Under no circumstances shall the water service be interrupted without first notifying all affected users. In the event that an "emergency closure" is required, contractor shall provide personnel to begin notification while closure is underway. Contractor shall notify all water customers when water is being shut off by door hangers or verbal contact. Prior to shut off appropriate Parish personnel shall be notified by contractor. Regular Business Hours are Monday through Friday 7:00 AM to 4:30 PM. For after hours, holidays, and weekends- contact Reed Alexander – Assistant Utilities Director, Brandon Duhe or Mark Cox.

1.10 SITE CONDITION SURVEY

The contractor shall conduct a thorough survey of the entire job route. This survey should

be adequate as to ascertain pre-construction/repair and post-construction/repair conditions of all public and private property within and adjacent to the construction/repair limits. Site photographs shall be taken prior to and after completion of construction/repair project. Sufficient photographs shall be provided by the contractor and submitted to the Parish to resolve any damage claims which may arise due to the construction/repair of this project. Lack of pre-repair photos could result in claims having to be paid totally by the contractor. All costs associated with this survey shall be paid by the contractor.

1.11 QUALIFICATIONS OF BIDDERS

Bidders must have a practical knowledge of the particular work and shall have all labor and equipment necessary to satisfactorily complete the work orders and available personnel who possess the required licenses and other certifications.

1.12 COMMENCEMENT OF WORK

The Contract Time will commence at the time specified in the notice to proceed with a \$1,000,000.00 initial cap and a one-year renewal option without price escalation.

~~1.13 PUBLIC CONTRACT LAW (NOT APPLICABLE)~~

~~Pursuant to LSA R.S. 38:2248 (Public Contract Law), owner shall retain the following percentages of each progress payment until payment is due under the terms and conditions governing substantial completion or final payment.~~

Contract Amount	Retainage
\$0 - \$499,999.99	10%
\$500,000.00 or greater	5%

1.14 INVOICES

Invoices must be submitted for payment and the invoice shall reflect all work that is 100% completed. There will be no payment or partial payment for work in progress. All invoices submitted for payment must have a description of all work performed as directed by Parish issued work orders as well as all restoration work complete submitted with all "original" paperwork attached i.e., associated work orders; weekly logs; material vendor quote / invoice with quantity, material prices & associated shipping charges; labor logs with personnel labor categories, hourly burdened labor rate & number of hours; equipment logs with rates & number of hours; pre-&post construction photographs; etc. (Refer to Article 11 in the General Conditions section regarding equipment rates.) The contractor shall provide draft invoices for completed work orders and directives to the Parish for review and approval. Construction invoices shall be submitted using the AIA Application and Certification for Payment AIA G702 and AIAG703 forms unless otherwise determined. These invoices are to be completed by the prime contractor and approved by the Parish for

payment. Invoices shall be provided on a monthly basis at a minimum or as otherwise agreed upon. Invoices shall reflect all the work numbers associated with work being billed.

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SECTION 01 20 20
MEASUREMENT AND PAYMENT

PART 1 – GENERAL

A. Refer to Bid Form

- B. Payment shall include all compensation to be received by the Contractor for furnishing all tools, equipment, supplies, and manufactured articles, and for all labors, operations, and incidentals appurtenant to complete the work being described, as necessary to complete the various items of the work all in accordance with the requirement of the Contract Documents, including all costs of compliance with the regulations of public agencies having jurisdiction. The Contractor is hereby on notice that no separate payment will be made for any item not specifically called out, but that is required to properly complete the project.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

PART 4 – MEASUREMENT AND PAYMENT

4.01. Items 1-25: Furnish and Install Gravity Sewer Main

A. MEASUREMENT:

Measurement for Furnishing & Installing Gravity Sewer Main will be made per linear foot of Polyvinyl chloride or vinyl (PVC) pipe installed. The measurement will be based upon the size and depth of the sewer line. Depth of repair is determined by averaging the invert elevation of the sewer line at the upstream and downstream manholes of the repair.

- B. PAYMENT: Payment of this item shall include all materials, labor, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, bedding, furnishing, and installing of pipe, cleaning, testing, backfilling, removal and disposal of excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

Surface restoration shall be paid under separate bid items.

4.02. Items 26-75: Restore Gravity Sewer Main by Point Repair or Beyond Point Repair

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A. MEASUREMENT:

Measurement for Restoring Gravity Sewer Main by Point Repair will be made per each. Measurement for Restoring Gravity Sewer Main Beyond Point Repair will be made per linear feet. The measurement will be based upon the depth of the repair and the applicable size of the gravity main. Depth of repair is determined by averaging the invert elevation of the sewer line at the upstream and downstream manholes of the repair.

B. PAYMENT:

A gravity sewer main "Point Repair" consists of exposing and repairing at any one location a specific length of Polyvinyl chloride vinyl (PVC) gravity sewer main on per each basis. A "Point Repair" of a gravity sewer main up to 8 feet in depth shall be paid for at the specified length of 10 linear feet. For depths exceeding 8 feet, the pay length for repair shall be paid for at the specific length of 10 linear feet.

Exposing and repairing in excess of the initial specified length for a "Point Repair" as determined by the depth of repair of the sewer main shall be paid under the applicable size and pay item for "Beyond Point Repair" for each linear feet of repair in excess of the initial specified length paid for as a "Point Repair".

Payment for this pay item shall include all materials, labor, grout, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, bedding, furnishing and installing of pipe, cleaning, testing, backfilling, removal and disposal of excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

Surface restoration shall be paid under separate bid items.

4.03. Items 76-86: Furnish and Install Restrained Joint Force Main Pipe

A. MEASUREMENT:

Measurement for Furnishing & Installing Restrained Joint Force Main Pipe. Polyvinyl chloride vinyl (PVC) or ductile iron, in the various specified sizes will be made per linear feet of pipe once furnished, installed, backfilled, tested, and accepted. Measurement will be in linear feet along the centerline of pipe. All joint restraints shall be placed as directed by the Owner or Project Manager and shall be considered incidental to the unit price bid for this pay item.

B. PAYMENT:

Payment for this item shall include all materials, labor, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, bedding, furnishing, and installing of pipe, restrained joints, backfilling, cleaning, testing, removal and disposal of

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excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

Surface restoration shall be paid under separate bid items.

4.04. Items 87-96: HDPE Horizontal Directional Drilled Force Main

A. MEASUREMENT:

Measurement for Horizontal Directional Drilled Force Main using High Density Polyethylene Pipe (HDPE in the various specified sizes will be made per linear feet of pipe once furnished, installed, backfilled, tested, and accepted. Measurement will be in linear feet measured between centerlines of drilling pits for the line segments replaced.

B. PAYMENT:

Payment for this item shall include all materials, labor, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, necessary insertion pits, furnishing and installing of pipe, cleaning, pre-&post- installation video inspection, fusing of pipe, tie-in to existing force mains or structures, backfilling, removal and disposal of excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

Surface restoration shall be paid under separate bid items.

4.05. Items 97-114: Restore Force Main Point Repair or Beyond Point Repair Any Material

A. MEASUREMENT:

Measurement for Restoring Sewer Force Main by Point Repair will be made per each. Measurement for Restoring Sewer Force Main Beyond Point Repair will be made per linear feet. The measurement will be based upon the depth of the repair and the applicable size of the force main. Depth of repair is determined by measuring from top of ground to the invert elevation of the sewer line repair.

B. PAYMENT:

A sewer force main "Point Repair" consists of exposing and repairing at any one location a specific length of Polyvinyl chloride vinyl (PVC), Ductile Iron, or other approved pipe type sewer force main on a per each basis. A "Point Repair" of a sewer force main up to 6 feet in depth shall be paid for at the specified length of 10 linear feet. For depths exceeding 6 feet, the pay length for repair shall be paid for at the specific length of 16 linear feet.

Exposing and repairing in excess of the initial specified length for a "Point Repair" as determined by the depth of repair of the sewer main shall be paid under the applicable

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size and pay item for "Beyond Point Repair" for each linear feet of repair in excess of the initial specified length paid for as a "Point Repair".

Payment for this item shall include all materials, labor, grout, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, bedding, furnishing, and installing of pipe, clamps or couplings, cleaning, testing, backfilling, removal and disposal of excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

Surface restoration shall be paid under separate bid items.

4.06. Item 115: Ductile Iron Fittings

A. MEASUREMENT:

The measurement of all ductile iron fittings will be by the pounds (LB) installed. The actual weight of ductile iron fittings, incorporated in the "point repair" will be measured.

B. PAYMENT:

Payment for this item shall include all labor, equipment, material, and incidentals, including hauling and properly installing fittings, necessary to complete this item of work as specified herein.

4.07. Item 116: Welding Repair

A. MEASUREMENT:

The measurement of welding repairs will be by the linear foot at the rate of the bid amount per FT. The per-foot price shall be paid by the length of the completed weld, which will include any number of "top" passes required to complete the weld.

B. PAYMENT:

Payment of welding repairs shall be paid for at the unit bid price. Payment for this item shall include all labor, equipment, and materials required completing the welding repairs. Payment for welding repairs will be over and above the cost of a "point repair".

4.08. Items 117-120: Restore 4" or 6" Service Lateral by Point Repair or Beyond Point Repair

A. MEASUREMENT:

Measurement for Restoring 4" or 6" Service Lateral by Point Repair will be made per each. Measurement for payment for Restoring 4" or 6" Service Lateral Beyond Point Repair will be made per linear feet. Measurement will be based upon the depth of the

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repair and the applicable size of the sewer service lateral. The depth of repair is determined by averaging the invert elevation of the sewer service lateral line at the upstream and downstream termination points of the repair.

B. PAYMENT:

The actual quantity paid will be based upon the depth of the repair and the applicable size of the sewer service lateral. The depth of repair is determined by averaging the invert elevation of the sewer service lateral line at the upstream and downstream termination points of the repair. A sewer service lateral "Point Repair" consists of exposing and repairing at any one location a specific length of Polyvinyl chloride vinyl (PVC) service lateral on per each basis. A "Point Repair" of a sewer service lateral up to 8 feet in depth shall be paid for at the specified length of 10 linear feet. For depths exceeding 8 feet, the pay length for repair shall be paid for at the specific length of 16 linear feet

Exposing and repairing in excess of the specified length for a "Point Repair" of a 4- inch or 6-inch service lateral line at the same location shall be paid for under the pay item for "Beyond Point Repair" for each linear foot of repair in excess of the initial specified length paid for as a "Point Repair".

Payment for this item shall include all materials, labor, grout, equipment, and related work items including mobilization and demobilization, excavation, dewatering, foundation lumber, sheeting and bracing which shall be left in place, bedding, furnishing, and installing of pipe, cleaning, testing, backfilling, removal and disposal of excess materials and debris from the site of work, traffic control, and all other incidentals necessary to perform the work.

4.09. Items 121-126: Cleaning Sanitary Sewer Lines

A. MEASUREMENT:

Measurement for payment of cleaning sanitary sewer pipe, including associated manholes shall be made per linear feet, with measurement being made between centerlines of consecutive manholes for the line segments and manholes successfully cleaned. This is intended to be utilized to clean existing pipe segments as needed and authorized by the Owner not associated with other items work. If the amount debris and/or a blockage requires more than one pass, one additional pass from the opposite direction can performed upon Owner approval. The additional pass will be measured and paid at the same unit price bid.

B. PAYMENT:

Payment for cleaning sanitary sewer lines, including associated manholes shall be paid at the unit bid price for various pipe sizes without regard to pipe type. Payment for this item shall include all labor, materials, equipment, and incidentals necessary to complete this item of work as specified herein. The costs for the mobilization and

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operation of a vacuum truck shall be included in the price bid for this work.

Note: Any pre-&post- cleaning of new and repaired sewer pipes shall be considered incidental and included in the cost of the respective bid pay items. Refer to the Sewer Debris Disposal item for the disposal of sewer debris.

4.10. Item 127: Installation of Riser from Sewer Mainline to Service Lateral

A. MEASUREMENT:

The measurement for installation of riser for sewer service laterals will be by the linear foot basis of riser installed, utilizing new material, unless noted different elsewhere.

B. PAYMENT:

Payment for installed risers from the mainline will be paid at the unit bid price. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of riser for sewer house connection complete in accordance with the specifications.

4.11. Items 128-129: Insertion of Tee for Service Lateral in 6"-12" Sewer Mainlines and Above 12" Sewer Mainlines

A. MEASUREMENT:

Measurement for payment for each insertion of a "Tee" in the mainline sewer will include all labor, materials, and equipment for its proper installation. Payment will be made per each "Tee".

B. PAYMENT:

The payment for this item shall include labor, equipment, materials, and incidentals necessary to complete this item of work as specified herein. This item of work is intended to compensate the contractor for the replacement of a "Tee" when a sewer service lateral falls within the limits of a mainline sewer point repair. This item of work will include the replacement of up to ten (10) linear feet of the sewer services lateral and ten (10) linear feet of mainline.

4.12. Item 130: Connection for Service Lateral in Sewer Manhole

A. MEASUREMENT:

Measurement for payment for each service lateral in a sewer manhole shall include all labor, materials, and equipment for its proper installation. Payment will be made per each.

B. PAYMENT:

The payment for this item shall include labor, equipment, materials, and incidentals necessary to complete this item of work as specified herein. This item of work is intended to compensate

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the contractor for coring a hole into a sewer manhole and installing a sewer service lateral connection in a sewer manhole. This item of work will include the replacement of up to ten (10) linear feet of the sewer service lateral.

4.13. Items 131-132: Installation of New Service Lateral (4" or 6") Beyond 10'

A. MEASUREMENT:

Measurement for payment for Installing a New Service Line Beyond 10' will be made per linear feet.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete the installation. This item of work is intended to compensate the contractor when a new service line installation goes beyond the initial 10'. Payment will be made per linear feet based on unit price bid.

4.14. Items 133-134: Remove and Replace Existing Short Service Connection (0'-30' length) From Sewer Main to Property Line (4" or 6")

A. MEASUREMENT:

Measurement for payment for this item will include excavating the sewer main to locate tap and renew service from the tap to the property line using the existing tee and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete removal and replacement the existing service line using the existing tee from sewer main to the property line. Payment will be based off renewing short service (0'-30' length) and size service line based on the unit bid price.

4.15. Items 135-136: Remove and Replace Existing Medium Service Connection (30'-49' length) From Sewer Main to Property Line (4" or 6")

A. MEASUREMENT:

Measurement for payment for this item will include excavating the sewer main to locate tap and renew service from the tap to the property line using the existing tee and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete removal and replacement the existing service line using the existing tee from sewer main to the property line. Payment will be based off renewing long service (30'-49' length) and size service line based on the unit price bid.

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4.16. Items 137-138: Remove and Replace Existing Long Service Connection (50' or more length) From Sewer Main to Property Line (4" or 6")

A. MEASUREMENT:

Measurement for payment for this item will include excavating the sewer main to locate tap and renew service from the tap to the property line using the existing tee and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete removal and replacement the existing service line using the existing tee from sewer main to the property line. Payment will be based off renewing long service (50' or more length) and size service line based on the unit price bid.

4.17. Items 139: Installation of 6" Saddle and Install Short Service Lateral (0' -30' Length) From Sewer Main to Property Line

A. MEASUREMENT:

Measurement for payment for this item will include installation of a 6" saddle in sewer main and short service lateral (0'-30' length) installation from sewer main to property line will include all labor, materials, and equipment for its proper installation and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete installation of a 6" saddle in sewer main and short service lateral (0'-30' length) installation from sewer main to property line. Payment will be based off unit price bid on a per each basis.

4.18. Items 140: Installation of 6" Saddle and Install Medium Service Lateral (30'-49' Length) From Sewer Main to Property Line

A. MEASUREMENT:

Measurement for payment for this item will include installation of a 6" saddle in sewer main and medium service lateral (30'-49' length) installation from sewer main to property line will include all labor, materials, and equipment for its proper installation and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete installation of a 6" saddle in sewer main and

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medium service lateral (30'-49' length) installation from sewer main to property line.
Payment will be based off unit price bid on a per each basis.

4.19. Items 141: Installation of 6" Saddle and Install Long Service Lateral (50' or more Length)
From Sewer Main to Property Line

A. MEASUREMENT:

Measurement for payment for this item will include installation of a 6" saddle in sewer main and long service lateral (50' or more length) installation from sewer main to property line will include all labor, materials, and equipment for its proper installation and will be made on a per each basis.

B. PAYMENT:

The payment for this item shall include all labor, equipment, and material, other than owner furnished required to complete installation of a 6" saddle in sewer main and long service lateral (50' or more length) installation from sewer main to property line.

4.20. Item 142: Internally Trim Protruding Service Connections

A. MEASUREMENT:

Measurement for payment of Removal of Protruding Taps by Internal Cutting will be made per each tap cutting performed.

B. PAYMENT:

Payment for this item shall include all labor, materials, and equipment necessary to complete this item of work, as specified herein, and shall include all costs associated with internal cutting & removal of protruding taps.

4.21. Items 143-150: Install Emergency Pump Out

A. MEASUREMENT:

Measurement for the installation of emergency pump outs shall be per each.

B. PAYMENT:

Payment for this item shall include all materials, labor, equipment, and all other incidentals necessary to install emergency pump outs per the typical details.

4.22. Items 151-163: Furnish and Install Sewer Manholes

A. MEASUREMENT:

The measurement to Furnish and Install Sewer Manholes, including rebuilding existing manhole structures in entirety, will be made by the vertical linear foot, or portion thereof, based on manhole type, measured from the invert of the deepest line to the top of casting,

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for 4 feet or 6 feet diameter manholes.

B. PAYMENT:

The vertical linear feet of manholes constructed will be paid at the unit bid price. Payment for this item shall include all testing, labor, equipment, materials, and incidentals, including, but not limited to, temporary sheeting & bracing, excavation, backfill, top slabs, foundation, reinforcement, bedding, brick/mortar, joints, gaskets, boots, filter cloth wrap, drop pipe and fittings, bench/trough, castings, risers and cones, grout, waterproofing, and finishing, etc. necessary to complete a new or completely rebuilt manhole installation as specified. If roadway removal and replacement are required, they will be paid under separate items.

4.23. Items 164: Utility Conflict Manhole (Up to 3' Depth)

A. MEASUREMENT:

The measurement for installation of utility conflict manhole will be on a per each basis of actual number of manholes installed.

B. PAYMENT:

Payment for the actual number of utility conflict manholes installed will be paid for at the unit price. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of utility conflict manholes complete in accordance with the typical detail.

4.24. Items 165: Additional Vertical FT HT of Conflict Manhole (Over 3' Depth)

A. MEASUREMENT:

The measurement for additional vertical linear feet height of conflict manhole above 3-foot depth will be by the vertical linear feet of conflict manhole installed greater than 3-foot depth.

B. PAYMENT:

Payment for the actual quantity of conflict manhole installed, as measured above 3-foot depth will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of utility conflict manhole complete in accordance with the typical detail.

4.25. Items 166: Utility Conflict Box (Up to 5' Depth)

A. MEASUREMENT:

The measurement for installation of utility conflict box will be on a per each basis of actual number installed.

B. PAYMENT:

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Payment for the actual number of utility conflict boxes installed will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of utility conflict box complete in accordance with the typical detail.

4.26. Items 167: Additional Vertical FT HT of Conflict Manhole (Over 5' Depth)

A. MEASUREMENT:

The measurement for additional vertical linear feet height of conflict box above 5-foot depth will be by the vertical linear feet of conflict box installed greater than 5-foot depth.

B. PAYMENT:

Payment for the actual quantity of conflict box installed, as measured above 5-foot depth will be paid for at the unit price bid. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of utility conflict box complete in accordance with the typical detail.

4.27. Item 168: Reset Existing Manhole Rings & Covers

A. MEASUREMENT:

The measurement for Resetting Existing Manhole Rings & Covers will be per each location at the unit price bid.

B. PAYMENT:

Payment shall include cleaning & resetting existing manhole cover & frame/ring, grouting/sealing and any other material, labor, equipment, and incidentals necessary to complete this item.

4.28. Item 169: Furnish & Install New Manhole Rings & Covers

A. MEASUREMENT:

The measurement to Furnish & Install New Manhole Rings & Covers will be made per each location at the unit bid price.

B. PAYMENT:

Payment for this item shall include new manhole cover & frame/ring, grouting/sealing and any other material, labor, equipment, and incidentals necessary to complete this item. If roadway removal and replacement are required, they will be paid under separate items.

4.29. Item 170: Manhole Adjustment

A. MEASUREMENT:

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The measurement for Manhole Adjustment will be made per each adjustment basis based on an elevation adjustment up to one (1) foot in either direction.

B. PAYMENT:

Payment for this item shall include all labor, equipment, and materials, and other incidentals necessary to locate, excavate, and adjust the manhole to proper grade, including the resetting the existing cover & frame utilizing riser rings, brick/mortar, and/or grout to the desired elevation. This adjustment may be either an increase or decrease in the existing manhole casting elevation and will not exceed one (1) foot in either direction. If roadway removal and replacement are required, they will be paid under separate items.

4.30. Item 171: Remove and Replace Precast Concrete Manhole Wall/Cone

A. MEASUREMENT:

The measurement to Remove & Replace Precast Concrete Manhole Wall/Cone will be made per vertical linear feet, or portion thereof, per the applicable pay item.

B. PAYMENT:

Payment for this item shall include all testing, labor, equipment, materials, including, but not limited to, temporary sheeting & bracing, excavation, backfill, reinforcement, filter cloth, gaskets, boots, reinforcement, resetting existing manhole castings, grout, repair line connections, etc. and other incidentals to complete the manhole wall/cone installation. Precast manhole chimney restoration work will be paid per vertical linear feet under the Remove & Replace Manhole Wall (Brick) pay item. If roadway removal and replacement are required, they will be paid under separate items. If required, work associated to rehabilitation of manhole bench/troughs, furnishing & installing new manhole rings & covers, and manholes adjustments will be paid under the respective pay item unit bid prices.

4.31. Item 172: Remove & Replace Manhole Wall (Brick)

A. MEASUREMENT:

The measurement to Remove & Replace Manhole Wall (Brick) will be made per vertical linear feet, or portion thereof.

B. PAYMENT:

Payment for this item shall include all labor, equipment, and materials including, but not limited to, temporary sheeting and bracing, excavation, backfill, filter cloth, resetting existing manhole castings, brick, mortar, grout, finishing, repair line connections, etc., and other incidentals to complete the manhole wall installation. If roadway removal and replacement are required, they will be paid under separate items. If required, work associated to rehabilitation of manhole bench/troughs, furnishing and installing new

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manhole rings and covers, and manholes adjustments will be paid under the respective pay item unit price bid.

4.32. Item 173: Rehabilitate Manhole Bench/Trough

A. MEASUREMENT:

The measurement to Rehabilitate Manhole Bench/Trough will be made per each location as specified by Work Order and/or as directed by the Project Manager.

B. PAYMENT:

Payment for this item shall include all labor, equipment, materials, tools, and other incidentals necessary to completely rebuild a bench and invert within an existing sanitary sewer manhole. The unit price bid shall also include all cleaning and preparatory work, protection of existing equipment and piping, and confined space entry.

4.33. Item 174: Sewer Debris Disposal Offsite

A. MEASUREMENT:

Measurement for payment of sewer debris disposal will not be measured for payment if disposed of at a Parish identified facility / plant. If a Parish identified facility / plant is not available for the disposal of sewerage debris, sewer debris disposal will be measured per ton of debris disposed of at an Owner approved landfill facility.

B. PAYMENT:

Payment for sewer debris disposal will be at no direct cost if disposed of at a Parish identified facility / plant. If a Parish identified facility / plant is not available for the disposal of sewerage debris, sewer debris disposal will be made at the unit bid price per ton of debris disposed under the Sewer Debris Disposal Offsite pay item. Payment for this item shall include all labor, materials, and equipment necessary to complete this item of work, as specified herein, for the disposal of removed sewer debris.

4.34. Item 175: Chemical Grout to Fill Voids and Stop Leaks in Structures

A. MEASUREMENT:

The measurement for Chemical Grout to Fill Voids and Stop Leaks in Structures will be by the gallon injected into void or leak, measured by metering the amount of chemical grout pumped for injection.

B. PAYMENT:

Payment for the actual quantity of gallons injected, will be paid for at the unit price bid. Payment for this item shall include all labor, equipment, material, and incidentals necessary to complete this item of work.

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4.35. Item 176: Sewer Manhole/Wet Well Rehabilitation by Cementitious Lining

A. MEASUREMENT:

The measurement for rehabilitation of sewer manholes or wet wells by cementitious lining will be per square foot.

B. PAYMENT:

Payment for rehabilitated manholes or wet wells will be paid for at the unit price bid. Payment for this item shall include all materials, labor, grout, equipment, and related work items to rehabilitate a manhole or wet well. Locating, uncovering, cleaning the manholes or wet wells, pre-&post photographic documentation, plugging or blocking incoming pipes, patching or plugging leaking joints and voids, hydraulic plug where needed, surface preparation, application & finishing of mortar lining, curing, testing and inspection, cleanup, and other incidentals. Photographic documentation must be submitted prior to requesting payment.

4.36. Item 177: Sewer Manhole/Wet Well Rehabilitation by Spray On Epoxy Lining

A. MEASUREMENT:

The measurement for rehabilitation of sewer manholes or wet wells by spray on epoxy lining will be per square foot.

B. PAYMENT:

Payment for rehabilitated manholes or wet wells will be for at the unit price bid. Payment for this item shall include all materials, labor, grout, equipment, and related work items to rehabilitate a manhole or wet well. Locating, uncovering, cleaning the manholes or wet wells, pre-& post photographic documentation, plugging or blocking incoming pipes, patching or plugging leaking joints and voids, hydraulic plug where needed, surface preparation, installation of liner, restoration of bench & trough, curing, testing and inspection, cleanup, and all other incidentals. Photographic documentation must be submitted prior to requesting monthly payment.

4.37. Item 178: Sewer Manhole/Wet Well Rehabilitation by Multi-Layered Composite Liner System

A. MEASUREMENT:

The measurement for rehabilitation of sewer manholes or wet wells by panel liner system will be per square feet.

B. PAYMENT:

Payment for rehabilitated manholes or wet wells will be paid for at the unit price bid. Payment for this item shall include all materials, labor, equipment, and related work items to rehabilitate a manhole or wet well. Locating, uncovering, cleaning the manholes or wet

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wells, pre-&post photographic documentation, plugging or blocking incoming pipes, patching or plugging leaking joints and voids, hydraulic plug where needed, surface preparation, preparation of forms and benches, installation of anchoring, application of prime coat, moisture barrier, surfacer/rigid system, & final corrosion barrier, curing, testing and inspection, cleanup, and other incidentals. Photographic documentation must be submitted prior to requesting payment.

4.38. Item 179: Sewer Manhole/Wet Well Rehabilitation by Hybrid Epoxy Liner

A. MEASUREMENT:

The measurement for rehabilitation of sewer manholes or wet wells by hybrid epoxy mortar liner will be per square feet.

B. PAYMENT:

Payment for rehabilitated manholes or wet wells will be for at the unit price bid. Payment for this item shall include all materials, labor, grout, equipment, and related work items to rehabilitate a manhole or wet well. Locating, uncovering, cleaning the manholes or wet wells, pre-& post photographic documentation, plugging or blocking incoming pipes, patching or plugging leaking joints and voids, hydraulic plug where needed, surface preparation, installation of liner, restoration of bench & trough, curing, testing and inspection, cleanup, and all other incidentals. Photographic documentation must be submitted prior to requesting monthly payment.

4.39. Item 180: Installation of Sewer Cleanout

A. MEASUREMENT:

The measurement for installation of a “typical” sewer cleanout will be made on a per each basis.

B. PAYMENT:

Payment for the actual number of sewer cleanouts installed will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, and incidental items necessary for the installation of sewer cleanouts complete in accordance with the typical details. A sewer cleanout assembly shall include furnishing and installing the wye, riser pipe, cleanout cap or plug, cover, concrete collar, excavation, dewatering, and backfill compacted to the final surface grading.

4.40. Item 181: Repair/Adjust Cleanout

A. MEASUREMENT:

The measurement for repair/adjust cleanout will be made on a per each basis.

B. PAYMENT:

Payment for the actual number of sewer cleanouts repaired/adjusted will be paid at the

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unit price bid. Payment for this item shall include all labor, equipment, materials, and incidental items necessary to complete the work in accordance with the typical details.

4.41. Item 182: Air Release Valve Replacement

A. MEASUREMENT:

Measurement for Air Release Valve (ARV) Replacement will be made on a per each basis.

B. PAYMENT:

Payment for this item shall include for all labor, materials, equipment, and incidentals required to remove and replace air release valves.

4.42. Item 183: Remove PCC Roadway

A. MEASUREMENT:

The measurement for removal of Portland cement concrete (PCC) roadway will be by the square yard all thicknesses. Measurement will be made from back-to-back of curbs.

B. PAYMENT:

Payment for the actual quantity of applicable roadway removed shall be paid for at the unit price bid. Payment for this item shall include all labor, equipment, materials, if required, and incidental necessary to complete the applicable item of work.

4.43. Item 184-185: Place PCC Roadway (7"-9" Thick)

A. MEASUREMENT:

The measurement for placement of Portland cement concrete roadway will be by the square yard for seven (7) and nine (9) inch thickness. Measurement will be made from back-to-back of curbs.

B. PAYMENT:

Payment for the actual quantity of applicable roadway placed shall be paid for at the unit price bid. Payment for this item shall include all labor, equipment, materials, wire mesh, if required, replacement of signing and other incidentals necessary to complete the applicable item of work.

4.44. Item 186: Saw Cut Asphaltic Concrete or PCC (Per Inch Depth)

A. MEASUREMENT:

Measurement for saw cut asphaltic concrete or PCC concrete (per inch of depth) machine saw cuts in concrete. Pavement shall be measured per the linear feet of cut per inch of the depths.

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B. PAYMENT:

Payment for this item shall include all cost associated with this equipment, including all labor materials, charges and saw blades.

4.45. Item 187: Remove Asphaltic Concrete Roadway

A. MEASUREMENT:

The measurement for removal of asphaltic concrete roadway will be per the square yard. Measurement will be made from cut to cut of pavement.

B. PAYMENT:

Payment for the actual quantity of asphaltic roadway removed within the authorized pay limit as unit price bid. Payment for this item shall include all labor, equipment, materials, and incidentals necessary to complete the item of work.

4.46. Item 188: Place/Compact 4" Asphaltic Concrete for Temporary Roadway

A. MEASUREMENT:

The measurement for payment to place/compact 4" of asphaltic concrete for temporary roadway shall be per the square yard of asphaltic concrete placed.

B. PAYMENT:

Payment for placement of 4" of compacted asphaltic concrete shall be paid at the unit price bid. Payment for this item shall include all labor, equipment, and incidentals to complete this work.

4.47. Item 189: Topping Temporary Asphaltic Concrete Roadway with 2" Wearing Course

A. MEASUREMENT:

The measurement for payment to top temporary asphaltic concrete roadway with a 2" wearing course shall be per the square yards of wearing course material placed.

B. PAYMENT:

Payment for topping temporary asphaltic concrete roadway with 2" wearing will be paid at the unit price bid. Payment for this item shall include all labor, equipment, and incidentals to complete this work.

4.48. Item 190: Place Asphaltic Concrete Roadway

A. MEASUREMENT:

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The measurement to place asphaltic concrete roadway shall be by the square yard. Measurement shall be made from cut to cut of pavement. All excavated area to be "straight cut" prior to placement of any asphaltic concrete roadway replacement.

B. PAYMENT:

Payment for the actual quantity of asphaltic roadway placed will be paid for at the unit bid price. Payment for this item shall include all labor, equipment, materials, and incidental necessary to complete the item of work. Should the thickness of the existing asphalt pavement exceed the six inches (6") asphalt concrete minimum thickness, the contractor shall match the existing pavement. Payment for the additional thickness satisfactorily placed will be prorated based upon the unit price bid for this item of work. For each additional inch of thickness satisfactorily placed beyond six inches (6"), the contractor will be paid for additional one-sixth (1/6) of the unit price of pay item.

4.49. Items 191-194: Remove and Replace Combination Concrete Curb and Gutter and Remove and Replace Concrete Curb

A. MEASUREMENT:

The measurement for Remove and Replace Combination Curb and Gutter and Remove and Replace Concrete Curb will be made per linear feet, along the face of the curb.

B. PAYMENT:

Payment for the actual quantity of concrete curb, gutter, and concrete curb removed and/or replaced will be paid at the applicable unit bid price. Payment for this item shall include all testing, labor, equipment, materials, including, but not limited to, excavation, backfill, forms, joints, dowels, letter markings for house connections, cleaning, disposal of removed & excess material, and any other incidentals necessary to complete the applicable item of work.

4.50. Items 195-199: Remove and Replace Concrete Driveways

A. MEASUREMENT:

The measurement for Remove and Replace Concrete Driveways will be made per square yard.

B. PAYMENT:

The actual quantity of driveway removed and replaced will be paid at the applicable unit bid price. Payment for this item shall include all labor, equipment, materials, including, but not limited to, excavation, backfill, forms, surface material (concrete, wash gravel, brick, stone, etc.), joints, dowels, wire mesh (if existing), saw-cutting, cleaning, disposal of removed & excess material, and any other incidentals necessary to complete the applicable item of work.

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4.51. Item 200: Remove and Replace Stone Driveway (6" Thick)

A. MEASUREMENT:

The measurement for Remove and Replace Stone Driveway (6" Thick) will be made per square yard.

B. PAYMENT:

The actual quantity of driveway removed and replaced will be paid at the applicable unit bid price. Payment for this item shall include all labor, equipment, materials, including, but not limited to, excavation, backfill, forms, surface material (stone, etc.), cleaning, disposal of removed & excess material, and any other incidentals necessary to complete the applicable item of work.

4.52. Items 201-204: Remove and Replace Sidewalks

A. MEASUREMENT:

The measurement for Remove and Replace Sidewalks will be made per square yard.

B. PAYMENT:

Payment for the actual quantity of sidewalk removed and replaced will be paid at the applicable unit price bid. Payment for this item shall include all labor, equipment, and materials, including, but not limited to, excavation, backfill, forms, surface material (concrete, wash gravel, brick, stone, etc.), joints, dowels, wire mesh (if existing), saw-cutting, cleaning, disposal of removed & excess material, and any other incidentals necessary to complete the applicable item of work.

4.53. Item 205: Install Handicap Access Ramp at Curb/Street Transition

A. MEASUREMENT:

The measurement for the Installation of Handicap Access Ramp at Curb/Street Transition will be made per square yard of surface area formed and/or tooled, within the limits of ramp and curb transitions.

B. PAYMENT:

Payment for the actual surface area of sidewalk/curb formed and tooled to meet all applicable regulatory requirements will be paid at the unit price bid. Payment for this item shall include all labor and any materials or special tools/forms to complete the work in accordance with all regulatory requirements. NOTE, This bid item is intended to compensate for the extra labor involved in forming access ramps. This item does not include the cost for concrete replacement (for sidewalk and curb). Those items will be paid for under the respective applicable bid items.

4.54. Item 206: Remove and Replace Incidental Concrete Paving (Up to 6" Thick)

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A. MEASUREMENT:

The measurement for Remove and Replace Incidental Concrete Paving will be made per square yard.

B. PAYMENT:

Payment for the actual quantity of incidental concrete paving removed and replaced will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, including, but not limited to, excavation, backfill, forms, joints, dowels, wire mesh (if existing), saw-cutting, cleaning, disposal of removed & excess material, and any other incidentals necessary to complete the applicable item of work as specified.

4.55. Item 207: Remove and Replace Paver Crosswalk

A. MEASUREMENT:

The measurement for Remove and Replace Paver Crosswalk will be made per square yard.

B. PAYMENT:

Payment for the actual quantity paver crosswalk section removed and replaced will be paid at the applicable unit price bid. Payment for this item shall include all labor, equipment, materials, including, but not limited to, All labor, material, equipment, and other incidental costs associated with the removal, excavation, clay pavers & bedding sand, joints, concrete base, base material, backfill, reinforcement, engineering fabrics, saw-cutting; cleaning; disposal of removed & excess materials, etc. shall be included in the respective bid item., and any other incidentals necessary to complete the applicable item of work as specified.

4.56. Item 208: Additional Granular Material

A. MEASUREMENT:

The measurement for Additional Granular Material will be made per ton.

B. PAYMENT:

Where specific site conditions dictate, and at the discretion and direction of the Project Manager, the use of additional granular material (pumped river sand), above that specifically required by the Contract, when directed, will be supplied and placed. The additional granular material shall be placed in lifts and compacted in accordance with the Parish Details and specifications, or as otherwise specified. Payment for the actual quantity of additional granular material supplied and placed, when directed, will be paid at the unit bid price. Payment for this item shall include all labor, equipment, materials, and other incidentals to perform the work.

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4.57. Item 209: Additional Granular Material (Labor Only)

A. MEASUREMENT:

The measurement for Additional Granular Material (Labor Only) will be made per hour.

B. PAYMENT:

Where specific site conditions dictate, and at the discretion and direction of the Project Manager, the use of additional granular material (pumped river sand), above that specifically required by the Contract, when directed, owner supplied materials will be placed. The additional granular material shall be placed in lifts and compacted in accordance with the Parish Details and specifications, or as otherwise specified. Payment for the actual quantity of additional granular material placed, when directed, will be paid at the unit price bid. Payment for this item shall include all labor, equipment, and other incidentals to perform the work. Materials will be owner-furnished.

4.58. Item 210: Additional Limestone

A. MEASUREMENT:

The measurement for Additional Limestone will be made per ton.

B. PAYMENT:

Where specific site conditions dictate, and at the discretion and direction of the Project Manager, the use of additional limestone above that specifically required by the Contract, when directed will be supplied and placed. The additional limestone shall be placed in lifts and compacted in accordance with the Parish Details and specifications, or as otherwise specified. Payment for the actual quantity of additional limestone supplied and placed, when directed, will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, and other incidentals to perform the work.

4.59. Item 211: Additional Limestone (Labor Only)

A. MEASUREMENT:

The measurement for Additional Limestone (Labor Only) will be made per hour.

B. PAYMENT:

Where specific site conditions dictate, and at the discretion and direction of the Project Manager, the use of additional limestone above that is specifically required by the Contract, when directed, owner supplied materials will be placed. The additional limestone shall be placed in lifts and compacted in accordance with the Parish Details and specifications, or as otherwise specified. Payment for the actual quantity of additional limestone placed, when directed, will be paid at the unit price bid. Payment for this item shall include all labor, equipment, and other incidentals to perform the work. Materials will be owner-furnished.

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4.60. Items 212-213: Traffic Control

A. MEASUREMENT:

Measurement for payment of Traffic Control by flagman or law enforcement will be per hour.

B. PAYMENT:

In high traffic volume areas & other instances the assessment work cannot be safely performed, flagman or law enforcement services can be utilized as needed upon approval by the Owner. When flagman or law enforcement services are utilized the Contractor shall be compensated on an hourly basis.

Payment will be made per hour at the unit price bid. Payment for this item shall include all labor, materials, equipment and other incidentals to perform this work. All costs associated with the development and implementation of site- specific traffic control device plans, traffic control device set-up & removal, including cones, signs, & other necessary devices, etc., and traffic control device operation & maintenance are considered incidental to the other work and provided at no additional cost to the Owner.

4.61. Items 214-237: Set-up and Operation of By-Pass Pumping

A. MEASUREMENT:

Separate measurement will be made per the by-pass pumping set-up and operation of by-pass pumping made per applicable pump size bid items. These items are in addition to the minimum required by-pass pumping of other bid items and will only be allowed upon prior approval of the Project Manager and/or Director of Utilities. Each by-pass pumping set-up will be measured separately and made per each by-pass pumping set-up and subsequent removal; and shall include all level controls; installation of up to 100 feet of discharge force main, up to 60 feet of suction piping; and a full tank of fuel. By-pass pumping for 4" by-pass pumps & under will not be measured for payment.

If additional by-pass pumping discharge force main is required to reach the designated discharge point, this additional by-pass pumping discharge force main will be measured by the linear foot and be paid at the appropriate "Extension of Force Main" unit bid item for the pump size.

Operation of by-pass pumping will be measured for the operation of each size of by-pass pump bid, and will be paid in accordance with the following schedule,

1 Day (DAY) = 24 hours

1 Week (WK) = 3 days through 7 days

1 Month (MO) = 21 days through 31 days

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B. PAYMENT:

Payment for set-up of the by-pass pumping will be paid at the unit bid price per each based on the pump size required. This item will only be used for by-pass pumping beyond the minimum requirements of other bid items. Payment for the operation of each size by-pass pump shall be paid at the daily, weekly, or monthly unit bid prices. Payment for operation of by-pass pumping will constitute full payment for the day-to-day operation of each pump, including fueling and daily checks on operation. Payment for the extension of discharge force main beyond the minimum required length to be provided will be paid per linear foot.

4.62. Item 238: Exploratory Excavation – Each

A. MEASUREMENT:

The measurement for Exploratory Excavation will be per each.

B. PAYMENT:

Where specific site conditions dictate, exploratory excavation shall be used for determining subsurface conditions. Payment under this item also shall cover all excavation not specifically required by the Contract and for which no pay item exists. The actual time spent of extra material excavated, as directed by the Engineer, will be paid at the unit price bid. Payment for this item shall include furnishing labor, equipment, and material to excavate and dispose of the excavated material.

4.63. Item 239: Exploratory Excavation – Day

A. MEASUREMENT:

The measurement for Exploratory Excavation will be per each day spent excavating.

B. PAYMENT:

Where specific site conditions dictate, exploratory excavation shall be used for determining subsurface conditions. Payment under this item also shall cover all excavation not specifically required by the Contract and for which no pay item exists. The actual time spent of extra material excavated, as directed by the Engineer, will be paid at the unit price bid. Payment for this item shall include furnishing labor, equipment, and material to excavate and dispose of the excavated material. (Note, If the exploratory excavation takes less the 4 hours, the contractor shall be paid based on half of the day rate unit price bid.)

4.64. Item 240: Slab Sodding

A. MEASUREMENT:

The measurement for Slab Sodding will be made per square yard of finished surface, after all conditions of the specifications have been met.

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B. PAYMENT:

Payment for the actual quantity of slab sodding satisfactorily placed will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, including, but not limited to, topsoil, fertilizer, water, etc., and other incidentals necessary to perform the work. It is the Contractor's responsibility to continue to water and maintain the slab sodding until the completion of the project.

4.65. Item 241: Secure Utility Pole

A. MEASUREMENT:

The measurement for securing utility pole will be made per each pole secured during performance of other work.

B. PAYMENT:

The actual quantity for securing utility poles will be paid at the unit price bid. Payment for this item shall include all labor, equipment, materials, and other incidentals necessary to perform the work.

4.66. Item 242: Pick-Up Truck – ½ Ton

A. MEASUREMENT:

The measurement for a ½ ton pickup truck will be on a per day basis.

B. PAYMENT:

The payment for a ½ ton pickup truck will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.67. Item 243: Pick-Up Truck – 1-Ton

A. MEASUREMENT:

The measurement for a 1-ton pickup truck will be on a per day basis.

B. PAYMENT:

The payment for a 1-ton pickup truck will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.68. Item 244: Utility Truck

A. MEASUREMENT:

The measurement for a utility truck will be on a per day basis.

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B. PAYMENT:

The payment for a utility truck will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.69. Item 245: Dump Truck – 1 Rear Axle

A. MEASUREMENT:

The measurement for a 1 rear axle dump truck – rear axle will be on a per day basis.

B. PAYMENT:

The payment for a 1 rear dump truck – rear axle will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.70. Item 246: Tandem Axle Dump Truck

A. MEASUREMENT:

The measurement for a tandem axle dump truck – rear axle will be on a per day basis.

B. PAYMENT:

The payment for a tandem axle dump truck will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.71. Item 247: Welding / Mechanic Truck

A. MEASUREMENT:

The measurement for a welding / mechanic truck will be on a per day basis.

B. PAYMENT:

The payment for a welding / mechanic truck will be made at the contract unit price bid per day the truck is utilized on site.. The “welder” is not covered by this pay item and should be paid for under the applicable item.

4.72. Item 248: Welding Truck Complete w/200A Welder and Torch Set

A. MEASUREMENT:

The measurement for a welding truck complete with 200A welder and torch set will be on a per day basis.

B. PAYMENT:

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The payment for a welding truck complete with 200A welder and torch set will be made at the contract unit price bid per day the truck is utilized on site.. The “welder” is not covered by this pay item and should be paid for under the applicable item.

4.73. Item 249: Tool Trailer

A. MEASUREMENT:

The measurement for a tool trailer will be on a per day basis.

B. PAYMENT:

The payment for a tool trailer will be made at the contract unit price bid per day the trailer is utilized on site.

4.74. Item 250: Utility Trailer 6x12 with Ramps Tilt Tailer

A. MEASUREMENT:

The measurement for a utility trailer will be on a per day basis.

B. PAYMENT:

The payment for a utility trailer will be made at the contract unit price bid per day the trailer is utilized on site.

4.75. Item 251: Backhoe Tractor Loader 1/4 CY

A. MEASUREMENT:

The measurement for a backhoe tractor loader ¼ cubic yard will be on a per day basis.

B. PAYMENT:

The payment for a backhoe tractor loader ¼ cubic yard will be made at the contract unit price bid per day the backhoe tractor loader is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.76. Item 252: Backhoe - CAT 312 Track Excavator

A. MEASUREMENT:

The measurement for a backhoe CAT 312 track excavator will be on a per day basis.

B. PAYMENT:

The payment for a backhoe CAT 312 track excavator will be made at the contract unit price bid per day the backhoe track excavator is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.77. Item 253: Rubber Tire Loader/Backhoe

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A. MEASUREMENT:

The measurement for a rubber tire loader/backhoe will be on a per day basis.

B. PAYMENT:

The payment for a rubber tire loader/backhoe will be made at the contract unit price bid per day the rubber tire loader/backhoe is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.78. Item 254: 5/8 CY Track Backhoe

A. MEASUREMENT:

The measurement for a 5/8 CY track backhoe will be on a per day basis.

B. PAYMENT:

The payment for a 5/8 CY track backhoe will be made at the contract unit price bid per day the 5/8 CY track backhoe is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.79. Item 255: 1 CY Track Backhoe

A. MEASUREMENT:

The measurement for a 1 CY track backhoe will be on a per day basis.

B. PAYMENT:

The payment for a 1 CY track backhoe will be made at the contract unit price bid per day the 1 CY track backhoe is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.80. Item 256: 2 CY Track Backhoe

A. MEASUREMENT:

The measurement for a 2 CY track backhoe will be on a per day basis.

B. PAYMENT:

The payment for a 2 CY track backhoe will be made at the contract unit price bid per day the 2 CY track backhoe is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.81. Item 257: 2 CY Rubber Tire Loader/Backhoe

A. MEASUREMENT:

The measurement for a 2 CY rubber tire loader/backhoe will be on a per day basis.

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B. PAYMENT:

The payment for a 2 CY rubber tire loader/backhoe will be made at the contract unit price bid per day the rubber tire loader/backhoe is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.82. Item 258: Backhoe - D-4 Dozer

A. MEASUREMENT:

The measurement for a D-4 Dozer will be on a per day basis.

B. PAYMENT:

The payment for a D-4 dozer will be made at the contract unit price bid per day the dozer is utilized on site. The “operator” is not covered by this pay item and should be paid for under the applicable item.

4.83. Item 259: Vacuum Truck Operation – Daily

A. MEASUREMENT:

Measurement for Vacuum Truck Operation will be made on a daily basis to utilize the vacuum truck at a location as indicated by the Owner. This is intended to be utilized to clean existing structures as needed and authorized by the Owner not associated with other items work.

B. PAYMENT:

Payment for Vacuum Truck Operation for this item shall include all labor, material, equipment, and incidentals required to operate the vacuum truck on a daily basis. Any cost associated with mobilization and operator shall be considered incidental to this pay item.

Note: Any pre-&post- cleaning of new and rehabilitated sewer structures (i.e.: manholes: wet wells: dry pits: etc.) and new and repaired sewer pipes shall be considered incidental and included in the cost of the respective bid pay items. Refer to the Sewer Debris Disposal item for the disposal of sewer debris.

4.84. Item 260: Small Gasoline Wacker Plate Approx. 24" x 24"

A. MEASUREMENT:

The measurement for a small gasoline wacker plate will be on a per day basis.

B. PAYMENT:

The payment for a small gasoline wacker plate will be made at the contract unit price bid per day the small gasoline wacker plate is utilized on site. The “laborer” is not covered

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by this pay item and should be paid for under the applicable item.

4.85. Item 261: Low Boy

A. MEASUREMENT:

The measurement for a low boy will be on a per day basis.

B. PAYMENT:

The payment for a low boy will be made at the contract unit price bid per day the truck is utilized on site. The “truck driver” is not covered by this pay item and should be paid for under the applicable item.

4.86. Item 262: Chain Saw

A. MEASUREMENT:

The measurement for a chain saw will be on a per day basis.

B. PAYMENT:

The payment for a chain saw will be made at the contract unit price bid per day the saw is utilized on site. The “laborer” is not covered by this pay item and should be paid for under the applicable item.

4.87. Item 263: All-Purpose Saw

A. MEASUREMENT:

The measurement for an all-purpose saw will be on a per day basis.

B. PAYMENT:

The payment for an all-purpose saw will be made at the contract unit price bid per day the saw is utilized on site. The “laborer” is not covered by this pay item and should be paid for under the applicable item.

4.88. Item 264: Air Compressor 185 CFM Diesel

A. MEASUREMENT:

The measurement for a diesel air compressor capable of providing 185 cubic feet per minute shall be on a day-to-day basis.

B. PAYMENT:

The payment for a diesel air compressor capable of providing 185 cubic feet per minute will be made at the contract unit price bid per day the air compressor is utilized on site.

4.89. Item 265: Welding Machine 300 Amps

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A. MEASUREMENT:

The measurement for a 300 Amp welding machine will be on a per day basis.

B. PAYMENT:

The payment for a 300 Amp welding machine will be made at the contract unit price bid per day the saw is utilized on site. The “welder” is not covered by this pay item and should be paid for under the applicable item.

4.90. Item 266: Small Tools

A. MEASUREMENT:

The measurement for “small tools” will be on a per day basis.

B. PAYMENT:

The payment for “small tools” will be made at the contract unit price bid per day the “small tools” are utilized on site. The unit price bid per day for "small tools" shall include the cost to supply, maintain, and operate any and all miscellaneous hand tools or other tools not covered by other bid items.

4.91. Item 267: Foreman

A. MEASUREMENT:

The measurement for a foreman will be per hour the foreman is working on site.

B. PAYMENT:

The payment for a foreman will be made at the contract unit price bid per hour the foreman is on site working. Contractor will be required to submit list of employees with titles.

4.92. Item 268: Superintendent

A. MEASUREMENT:

The measurement for a superintendent will be per hour the superintendent is working on site.

B. PAYMENT:

The payment for a superintendent will be made at the contract unit price bid per hour the superintendent is on site working. Contractor will be required to submit list of employees with titles.

4.93. Item 269: Laborer

A. MEASUREMENT:

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The measurement for a laborer will be per hour the laborer is working on site.

A. PAYMENT:

The payment for a laborer will be made at the contract unit price bid per hour the laborer is on site working. Contractor will be required to submit list of employees with titles.

4.94. Item 270: Operator

A. MEASUREMENT:

The measurement for an operator will be per hour the operator is working on site.

B. PAYMENT:

The payment for an operator will be made at the contract unit price bid per hour the operator is on site working. Contractor will be required to submit list of employees with titles.

4.95. Item 271: Teamster / Truck Driver

A. MEASUREMENT:

The measurement for a teamster / truck driver will be per hour the teamster / truck driver is working on site.

B. PAYMENT:

The payment for a teamster / truck driver will be made at the contract unit price bid per hour the teamster / truck driver is on site working. Contractor will be required to submit list of employees with titles.

4.96. Item 272: Carpenter

A. MEASUREMENT:

The measurement for a carpenter will be per hour the carpenter is working on site.

B. PAYMENT:

The payment for a carpenter will be made at the contract unit price bid per hour the carpenter is on site working. Contractor will be required to submit list of employees with titles.

4.97. Item 273: Pipe Layer

A. MEASUREMENT:

The measurement for a pipe layer will be per hour the pipe layer is working on site.

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B. PAYMENT:

The payment for a pipe layer will be made at the contract unit price bid per hour the pipe layer is on site working. Contractor will be required to submit list of employees with titles.

4.98. Item 274: Pipefitter / Welder

A. MEASUREMENT:

The measurement for a pipefitter / welder will be per hour the pipefitter / welder is working on site.

B. PAYMENT:

The payment for a pipefitter / welder will be made at the contract unit price bid per hour the pipefitter / welder is on site working. Contractor will be required to submit list of employees with titles.

4.99. Item 275: Pipefitter / Welder Helper

A. MEASUREMENT:

The measurement for a pipefitter / welder helper will be per hour the pipefitter / welder helper is working on site.

B. PAYMENT:

The payment for a pipefitter / welder helper will be made at the contract unit price bid per hour the pipefitter / welder helper is on site working. Contractor will be required to submit list of employees with titles.

4.100. Item 276: Electrician

A. MEASUREMENT:

The measurement for an electrician will be per hour the electrician is working on site.

B. PAYMENT:

The payment for an electrician will be made at the contract unit price bid per hour the electrician is on site working. Contractor will be required to submit list of employees with titles.

4.101. Item 277: Mechanic

A. MEASUREMENT:

The measurement for a mechanic will be per hour the mechanic is working on site.

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B. PAYMENT:

The payment for a mechanic will be made at the contract unit price bid per hour the mechanic is on site working. Contractor will be required to submit list of employees with titles.

4.102. Item 278: Additional Timber Sheeting, Bracing, and Foundation Lumber

A. MEASUREMENT:

The measurement for payment of additional sheeting, bracing, and foundation lumber not covered by contract requirements and when directed by the Owner's Representative or Engineer will be by the 1000-foot board measure (MFBF) or portion thereof. Measurement will be to the nearest 0.25 MFBF.

B. PAYMENT:

Where specific site conditions dictate and at the discretion and direction of the Owner's Representative or Engineer, the use of additional sheeting, bracing, and foundation lumber, above required, will be supplied, and placed as directed. All sheeting, bracing and foundation lumber supplied and placed shall be left in place unless otherwise specified or directed. The actual quantity of additional lumber supplied and placed shall be paid for at the unit price bid and this price and payment for this item shall include all labor, equipment, and materials to complete the additional work.

The costs associated with the installation of sheeting, bracing, and foundation lumber for the primary items of work to which it is associated, including but not limited to the installation, restoration, or point repair of sewer mains and lateral services; and/or as needed for jack or bore pits shall not be measured separately for direct payment but shall be included in the applicable unit price bid. The work associated with the installation of additional sheeting, bracing, and foundation lumber shall be installed and billed only if authorized in writing in advance by the designated Utilities Department Representative. Written correspondence from the Parish directing use of this item shall be included as backup to the invoice.

4.103. Item 279: Additional Temporary Steel Sheeting

A. MEASUREMENT:

The measurement for payment for additional temporary steel sheeting and bracing will be by the square foot.

B. PAYMENT:

The quantity of additional temporary steel sheeting and bracing furnished and installed shall be paid for at the unit price bid and this payment shall constitute full compensation for furnishing all labor, equipment, materials, and all other incidental work to complete installation.

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The costs associated with the installation of steel sheeting and bracing for the primary items of work to which it is associated, including but not limited to the installation, restoration, or point repair of sewer lines; and/or as needed for jack or bore pits shall not be measured separately for direct payment but shall be included in the applicable unit bid price. The work associated with the installation of additional temporary steel sheeting and bracing, and foundation lumber shall be installed and billed only if authorized in writing in advance by the designated Utilities Department Representative. Written correspondence from the Parish directing use of this item shall be included as backup to the invoice.

4.104. Item 280: Left in Place Steel Sheeting & Bracing

A. MEASUREMENT:

The measurement for payment for left in-place steel sheeting and bracing will be by the square foot.

B. PAYMENT:

Where specific site conditions dictate, upon prior authorization in writing by the designated Utilities Department Representative, steel sheeting and bracing required to perform the scope of work may be left in place. The quantity of in-place steel sheeting and bracing furnished and installed shall be paid for at the unit price bid and this payment shall constitute full compensation for furnishing all labor equipment, materials, and all other incidental work to complete the installation. Written correspondence from the Parish directing use of this item shall be included as backup to the invoice.

4.105. Item 281: Emergency Smoke Testing

A. MEASUREMENT:

Measurement for payment of Emergency Smoke Testing will be made for the actual linear footage of pipe smoke tested. This item will be used only on an emergency basis declared by the Owner and/or Engineer only.

B. PAYMENT:

Payment for Emergency Smoke Testing will be made for the actual linear footage of pipe smoke tested as directed by the Owner and/or Engineer. Payment shall constitute full compensation for all labor, materials, and equipment necessary to complete this item of work, as specified herein, and shall include all costs associated with the procedures and materials necessary to produce the results in the form, format and of the quality specified in the smoke testing section, including the preparation and delivery of the smoke testing field data and reports. No payment will be made for smoke testing performed to determine if a sewer line point repair is acceptable upon completion and shall be considered incidental to the sewer line repair.

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4.106. Item 282: Survey Services

- A. MEASUREMENT: Measurement for survey services will be paid on an hourly basis for actual work performed.
- B. PAYMENT: Payment for Survey Services will be made on an hourly basis as directed by the Owner and/or Engineer. Payment for this item shall include all labor, materials, and equipment necessary to complete this item of work.

4.107. Item 283: Unforeseen Work

A. MEASUREMENT:

Where specific site conditions dictate and at the discretion and direction of the Director of the Utilities Department, other unforeseen work may be required. The measurement for payment of unforeseen work not covered by other contract items of work and requirements, and NOT deemed an “emergency”, will be made per Job. For unforeseen work encountered or identified during other construction activities, the Contractor shall provide a specific price proposal for the unforeseen work identifying the location & scope of work to be performed for review and approval by the Director of the Utilities Department before any work shall begin.

B. PAYMENT:

Payment will be made only if approved and directed to proceed by the Parish to perform the unforeseen work not specifically covered by other contract items of work and requirements contained elsewhere in the Contract Documents. The actual quantity of unforeseen work shall be paid for at the “Job” price quoted and approved by the Director of the Utilities Department and payment for this item shall include all labor, equipment, and materials (if not supplied by the Parish or included in the contract) as needed to accomplish the unforeseen work. The price proposal submitted shall include sufficient backup to allow for the Parish and Project Manager to review the proposed cost for reasonableness based on the scope and extent of the work and existing site conditions. Backup may include, but not limited to, an equipment log indicating the estimated time, hourly or daily rate, and type of equipment required; a labor log indicating the estimated time, hourly rate, and personnel classifications required; and unmarked vendor material quotes or invoices for materials not supplied by the Parish or otherwise included in the Contract. When applicable the Contractor proposal pricing shall be based on the specific established equipment and labor rates included in the Contract, or subsequently established for prior work of similar nature & size.

Refer to other provisions in these specifications for equipment rates.

The Contractor shall provide, in the backup, third-party vendor quotes or invoices with the initial estimated amount of required materials to be provided by the Contractor. The

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same shall be included in the contractor's billing invoice for payment. The cost of any incidental drayage between the local supplier and the job site will not be considered for payment.

The Parish reserves the right to adjust the total amount reimbursed for unforeseen work based on the actual final verified quantities of utilized labor, equipment, and materials for successfully performed work.

4.108. Item 284: "Emergency" Work

A. MEASUREMENT:

Where specific site conditions dictate and at the discretion and direction of the Director of the Utilities Department: other "emergency" work may be required. The measurement for payment of "emergency" work will be made on an as incurred basis for bid items 239 through 274. The cost of materials used in the performance of "emergency" work: if not otherwise covered by existing bid items: or supplied by St. John Parish: will be measured for payment based on the actual invoice cost per unit billed to him without any mark-ups. These third-party invoices shall be included in the contractor's billing invoice for payment. The cost of any incidental drayage between the local supplier and the job site will not be considered for payment.

B. PAYMENT:

Payment for "emergency" work will be made only if approved and directed to proceed by the Parish to perform "emergency" work not specifically covered by other contract items of work and requirements contained elsewhere in the Contract. The actual quantities of "emergency" work shall be paid for based on the actual labor: equipment: and materials: not supplied by the Parish or included in the Contract: required to accomplish the unforeseen "emergency" work. Payment will be made in accordance with the hourly or daily rates bid for labor and equipment bid items 239 through 274 in addition to the other applicable standard bid items.

Equipment rates for unforeseen and/or "emergency" work shall not exceed the rates in the Rental Rate "Blue Book" published by Dataquest, Inc., the Equipment Watch Rental Rate Blue Book by Randall Reilly (AED Green Book), or industry adopted publication and will be paid as follows:

Day Rate = AED daily rate. (One Day (DY) = 8 hours up to 24 hours) Hourly
Rate = Day Rate divided by 8 (if < 8 hours)

The unit price bid per day for "Small Tools" shall include the cost to supply, maintain, and operate any and all miscellaneous hand tools or other tools not covered by other bid items.

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Labor costs shall be paid at the bid hourly unit rate based on the specific utilized personnel classification.

Refer to the Special Contract Provisions Section 06 regarding work scheduling: unforeseen & “emergency” work response times: performance requirements: and equipment and labor requirements & charges for invoicing / reimbursement. There will be no premium time for equipment. Premium labor charges for “emergency” work and after-hours work will be as specified in the Special Contract Provisions Section 06: or as otherwise mutually agreed upon.

The cost of materials used in the performance of unforeseen & “emergency” work: if not otherwise covered by existing bid pay items: or supplied by the Parish: will be paid based on the actual quantity used as measured in the field at the actual invoice cost billed to the Contractor. The Contractor shall not cover any authorized unforeseen & “emergency” work prior to confirming the quantities used with the Owner’s Representative. If covered the Contractor may be required to expose the area at his expense to measure and determine the actual quantities of materials used. The Contractor will be required to furnish the actual material invoice cost billed to him without any marks-ups. Any shipment: delivery: and handling cost will be reimbursed based on a percentage of the actual materials used for the work. These third-party invoices shall be included in the contractor’s billing invoice for payment. The cost of any incidental drayage between the local supplier and the job site will not be considered for pay.

If specific bid pay items for equipment and labor are not included in the Contract: The Contractor will be paid on the actual equipment and labor utilized subjected to confirmation of “reasonable” rates based on the criteria specified elsewhere in these specifications: or widely accepted governmental or industry standards.

(End of Section)

SECTION 01 32 33
CONSTRUCTION PHOTOGRAPHS

PART 1 – GENERAL

Contractor shall be responsible for the production of construction photographs, as provided herein.

PART 2 – PRODUCTS

All photographs shall be digital and produced by a competent photographer. Digital photos shall be submitted in “jpg format” with the description of view, date taken, work order number, and address. A compact disk or thumb drive shall be turned in with each payment of the work performed during that pay period.

PART 3 – EXECUTION

Minimum of four (4) digital photographs (minimum of two pre-construction, two-post construction) of pertinent features shall be taken at each repair location. The same view taken at pre-construction is to be re-photographed after restoration is completed and submitted with Contractor's application for payment. Payment will not be approved for restoration work if photographs are not submitted with the pay request. The number of photographs noted is a "minimum", and depending on site conditions, it may be prudent to take as many photographs as necessary to document pre-existing conditions. The Contractor is required to photograph the pre-existing conditions from the most advantageous angle possible. The intent of this section is to have detailed photographs from as many different angles as required to adequately document the pre-existing conditions. All photographs must contain a date & time stamp. Pre and post construction photographs is considered incidental to the work.

(End of Section)

SECTION 01 35 00
EMERGENCY SEWER SYSTEM REPAIRS

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. During the course of this Emergency Maintenance / Repair Contract, it may become necessary for the Owner to order emergency sewer system repair work. The work required, in most instances, will be covered by applicable repair unit price bid items. However, some emergency repair work and portions of repair work may not be covered by a unit price bid item. The exact nature of the emergency work that may be encountered during this contract cannot be established by the Owner beforehand.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION

3.01 WORK ORDER / ISSUANCE REPORT

- A. The emergency work will be issued to the contractor through a work order or directive, which may be in the form a daily “issuance report” electronic message, directly from the Parish Utilities Department. The Contractor shall have someone “on call” to monitor messages and/or phone calls from the Parish 24 hours per day.

3.02 TIME TO COMMENCE AND COMPLETE REPAIRS

- A. Upon notification of required emergency repairs, the Contractor shall respond to the site of an emergency within one (1) hour to secure the location and address any potential environmental hazards and public health and safety concerns. The Contractor shall begin working on the repairs for emergency situations within twenty-four (24) hours of the emergency situation notification, or as directed by the Owner’s Representative. Work is to continue by the Contractor as required until the repair is complete (beyond normal working hours if required), or until such time as agreed upon by Owner or Owner’s Representative that the emergency repair has reached a stabilized situation, which would allow for work to temporarily cease, and recommence for final completion during normal working hours. Refer to Section 06 Special Contract Provisions for additional information and requirements regarding “emergency” work.

3.03 TIME TO COMPLETE RESTORATION

- A. The area affected by emergency repair operations will be restored within forty-five (45) days, or as otherwise agreed due to unforeseen conditions or situations beyond the control of the Contractor.

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NOTE: If any provisions in Section 06 Special Contract Provisions” conflict with these specifications the more stringent shall apply, unless otherwise mutually agreed upon by the Contractor and the director of the Parish Utilities Department.

(End of Section)

SECTION 01 41 00
REGULATORY REQUIREMENTS

PART 1 – GENERAL

The Contractor shall be responsible for obtaining any necessary licenses and permits, and/or complying with any applicable Federal, State, and Municipal laws, codes, and regulations, in connection with the completion of the work, as well as applicable fees, without additional expense to the Owner. This shall include any fees for locating underground utilities by either the utility company or any other service. All work performed under this contract shall be in accordance with the appropriate section of the LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (2026 Edition and its latest revision) as well as all St. John the Baptist Parish Department of Utilities directives and guidelines. All sewer work shall confirm to the requirements and codes of the Louisiana Department of Health and the Louisiana Department of Environmental Quality and other applicable federal, state, and local codes and regulations.

The Contractor shall take proper safety and health precautions to protect the work, workers, the Public, and the property of others. The Contractor will be responsible for all materials delivered. The Owner will not provide any temporary storage facility or staging area for materials and/or equipment. All coordination and permissions to store equipment and/or materials must be made by the Contractor. Compliance with regulatory requirements is considered incidental to the work.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

(End of Section)

SECTION 01 45 29
TESTING LABORATORY SERVICES

PART 1 – GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Owner will employ and pay for the services of an Independent Testing Laboratory to perform specified testing, or upon recommendation of the Owner's Representative. This shall include re-testing for confirmation of compliance of re- worked areas; however, the Owner shall deduct the cost of all retests from compensation due to the Contractor.
- B. Contractor shall cooperate with the laboratory to facilitate the execution of its required services.
- C. Employment of the laboratory shall in no way relieve Contractor's obligations to perform the Work of the Contract.

1.02 LABORATORY DUTIES

- A. Cooperate with Owner's Representative and Contractor; provide qualified personnel after due notice.
- B. Perform specified inspections, sampling, and testing of materials, and methods of construction:
 - 1. Comply with specified standards.
 - 2. Ascertain compliance of materials with requirements of Contract Documents.
- C. Promptly notify Owner's Representative and Contractor of observed irregularities or deficiencies of work or products.
- D. Promptly submit two (2) copies of written report of each test and inspection to Owner's Representative.

Each report shall include:

- 1. Date issued.
- 2. Project title and number.
- 3. Testing laboratory name, address, and telephone number.
- 4. Name and signature of laboratory inspector.

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5. Date and time of sampling or inspection.
6. Record of temperature and weather conditions.
7. Date of test.
8. Identification of product and specification section.
9. Location of sample or test in the Project.
10. Type of inspection or test.
11. Results of test and compliance with Contract Documents.
12. Interpretation of tests as results, when requested by Owner's Representative.

E. Limitations of Authority of Testing Laboratory

Laboratory is not authorized to:

1. Release, revoke, alter, or increase requirements of Contract Documents.
2. Approve or accept any portion of the work.
3. Perform any duties of the Contractor.

1.03 CONTRACTOR'S RESPONSIBILITIES

- A. Cooperate with laboratory personnel, provide access to work site(s), and to manufacturer's operations.
- B. Secure and deliver to the laboratory (when requested by Owner's Representative), adequate quantities of representational samples of materials proposed to be used, and which require testing.
- C. Provide to the laboratory the preliminary design mix proposed to be used for concrete, and other material list mixes, which require control by the testing laboratory.
- D. Furnish copies of product test reports, as required.
- E. Furnish incidental labor and facilities:
 1. To provide access to Work Sites to be tested.
 2. To obtain and handle samples at the Project site or at the source of the product to be tested.
 3. To facilitate inspections and tests.
 4. For storage and curing of test samples.
- F. Notify laboratory sufficiently in advance of operations to allow for laboratory assignment of personnel and scheduling of tests.

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1. When tests or inspections cannot be performed after such notice, the Contractor will be responsible to reimburse the Owner for laboratory personnel and travel expenses incurred due to Contractor's negligence.
 2. Contractor will be responsible for all re-testing as a result of test failures.
- G. Make arrangements with the laboratory and pay for additional samples and tests required for Contractor's convenience.
- H. Contractor to pay for all retesting as a result of test failure.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

(End of Section)

SECTION 01 55 26
TRAFFIC REGULATIONS AND CONTROL

PART 1 – GENERAL

1.01 REQUIREMENTS

- A. The Contractor shall be responsible for the safe and expeditious movement of traffic through construction zones. A construction zone is defined as the immediate area of actual construction, which interferes with the driving or walking public.
- B. Traffic Control: The necessary precautions shall include, but not be limited to: proper construction warning signs, signals, lighting devices, markings, barricades, channelization, and hand signaling devices (flagging operation). See typical details included in this set of specifications. The Contractor shall be responsible for installation and maintenance of all devices and requirements for the duration of the construction period.
- C. All work shall be performed in accordance with Louisiana DOTD standard specification 2026, or its latest revision. In addition to items shown on the plans, traffic control devices shall be in accordance with the MUTCD.
- D. The Contractor shall be responsible for removal, relocation, or replacement of any traffic control device in the construction area which exists as part of the normal pre- construction traffic control scheme. Any such actions shall be performed by the Contractor, under the supervision of the Department of Engineering, Traffic Engineering Division, and in accordance with the Specifications, unless otherwise specified.
- E. The Contractor will consult with Owner's Representative and the St. John the Baptist Parish Utilities Department immediately on any vehicular or pedestrian safety or efficiency problem incurred as a result of construction of the project.
- F. The Contractor is responsible for daily monitoring of traffic control devices and must make appropriate changes to correspond to conditions.
- G. The St. John the Baptist Parish Utilities Department must receive a road closure at least ten (10) days before the actual closure, unless it is an emergency. Contractor shall work with the Owner's Representative to help fill out the Road Closure Form for submittal to the Public Information Office.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION (NOT USED)

(End of Section)

SECTION 01 62 00
PRODUCT OPTIONS

PART 1 – GENERAL

In accordance with Louisiana Public Contract Statute (LSA R.S. 38:2211-2296), these Contract Documents include provisions for use of equivalent materials and equipment. Requests for review of equivalency shall be submitted in accordance with the General Conditions and the submittals section in other specification sections.

Other manufacturer's products will be accepted, provided sufficient information is submitted to allow the Owner's Representative to determine that the proposed products are equivalent to those named. Such items shall be submitted for review by the procedures set forth in the submittals section in other specification sections.

Whenever the names of proprietary products or the names of particular manufacturer's or vendors are used, it shall be understood that the words "or approved equal" following the enumeration, if not specifically stated, are implied.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

(End of Section)

SECTION 02 55 00
PIPELINE POINT REPAIR

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. This section specifies the “point repair” of host pipelines. The term "point repair" shall refer to construction required to correct a problem or defective pipe at a specified location which cannot be corrected by other means. The Contractor shall be responsible for repairing the pipeline where required point repairs have been identified by the Owner and/or required to perform other required work approved by the Owner. Pipeline repairs in known locations will be typically identified and issued by Work Order or Work Directive. If a necessary point repair location is identified during the construction activities for other work the Owner will provide direction to the Contractor. No point repair work shall commence unless through an issued Owner approved Work Order or Directive.
- B. The work shall include verifying the location of the point repair through CCTV or person-entry inspection of the pipeline, locating all interfering utilities, excavation, dewatering, pipe repairs or replacement, reconnecting sewer services, backfilling, temporary flow bypassing, sewer dewatering, dewatering, well pointing, and traffic control. Pavement restoration, including pavement base material, shall be paid under the respective pay items.

1.02 QUALITY CONTROL

- A. The Contractor shall perform all work in a safe, efficient, and orderly manner and shall comply with all safety requirements of OSHA and standard good construction practices. Proper implements, tools, and facilities shall be provided and used for the safe and convenient performance of the work. All pipe and fittings shall be lowered carefully into the trench by means of a backhoe, track hoe, slings, or other suitable OSHA approved tools or equipment, in such a manner as to prevent damage to materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped into the trench. The trench should be dewatered prior to installation of the pipe.
- B. All pipe fittings and other appurtenances shall be examined carefully for damage and other defects immediately upon installation. Defective materials shall be marked and held for inspection by the Owner’s Representative, who may prescribe corrective repairs or reject the materials.
- C. Trench boxes, sheeting, bracing, and shoring shall be used in all conditions required for the safety of workers and as dictated by field conditions where tight working conditions or obstructions limit trench widths. All sheeting, bracing, and shoring shall be the sole

responsibility of the Contractor and shall be in conformance with all OSHA, and other federal, state and/or local requirements.

- D. The Contractor shall employ well pointing and/or other methods of dewatering at their expense when ground water is encountered on the job or the work site becomes wet from rain or surface water runoff.
- E. All lumps, blisters, and excessive coating shall be removed from the socket and plain ends of each pipe, and the outside of the plain end and the inside of the bell shall be wiped clean and dry and be free from dirt, sand, grit, or any foreign material before the pipe is laid.
- F. The Contractor shall maintain the operation of the wastewater collection system during repair operations. This work shall include plugging isolated line segments, bypass pumping of wastewater around areas being repaired, and related work.
- G. Foreign material shall be prevented from entering the pipe while it is being placed in the trench. During laying operations, no debris, tools, clothing, or other materials shall be placed in the pipe.
- H. The Contractor shall maintain public vehicular and pedestrian traffic around and through the job site. Ingress and egress to properties adjacent to the work shall be maintained at all times, except when the Contractor is laying pipe in a trench across a driveway. The Contractor shall not allow spoil and debris from the work to interfere with surface water drainage.
- I. As each length of pipe is placed in the trench, the joint shall be assembled and the pipe brought to correct line and grade. The pipe shall be secured in place with approved backfill material
- J. The Contractor shall promptly repair any damage to public or private property caused by the work, at no additional cost to the Owner.
- K. The Contractor shall immediately notify the Owner in writing of any conflicts encountered with existing utilities or private facilities.
- L. At the time when pipe laying is not in progress, the open ends of pipe shall be closed by a watertight plug or other approved means. When practical, the plug shall remain in place until the trench is pumped completely dry. Care must be taken to prevent pipe flotation should the trench fill with water.
- M. The Contractor will be authorized to perform repairs at specific locations as directed by the Owner. The Contractor shall excavate damaged facilities in the presence of the Owner's representative, and after inspection of the damage the Owner will specify or confirm the method of repair and rehabilitation.

- N. Rubber gaskets that are not to be installed immediately shall be stored in a cool dark place.
- O. No other pipe or material of any kind shall be placed inside of a pipe or fitting after any required coating has been applied.

PART 2 – PRODUCTS

- A. Material for repair, reconstruction, or replacement of damaged pipeline facilities shall include, but not necessarily be limited to pipe wye branches, bends, tees, fittings, other related appurtenances, bedding materials, fabrics, and other miscellaneous materials. Material specifications are as follows:

1. Sewer Pipe & Fittings

- a. PVC, Ductile Iron, or HDPE sewer pipe and fittings, and any lining and/or coatings, shall be as set forth in the respective section of these specifications. All pipe and fittings shall be made of the best materials and shall be free of cracks or other imperfections that will, in the judgment of the Owner's Representative, render them unsuitable for use. Curved pipes or bends, branches, tees, and plugs shall be equal in all essential respects to the straight pipe of the same diameter.
- b. All sewer pipe couplings / connections to manholes and plain end pipe or dissimilar pipe not sized to join to form a watertight connection shall be made with a Fernco connector or coupling, or an approved equal. In the event no clamp, connector, or coupling is available for the application at hand the Contractor shall propose another suitable method and means to provide a watertight connection.
- c. When repairing / replacing sewer main pipe segments the existing pipe to be restored shall be removed and replaced to a point to allow for a watertight connection to be furnished to sound pipe. The existing pipe shall be saw cut / removed to provide for a smooth, straight surface. If within three (3') feet of an existing joint, the repair segment may be extended to the existing joint upon approval. The Owner's Representative will determine the type or pipe and limits of the point repair.

2. Pipe Trenching, Bedding & Backfill Materials For Sewer Pipe Point Repairs

- a. For sewer pipe point repair locations, the pipe trench, including bracing, sheeting, and shoring; bedding; backfill; etc. shall be as set forth in the respective section of these specifications

3. Exterior Joint Sealing Materials

- a. Filler material for sealing open joints from the exterior of the pipe shall consist of an approved joint sealing compound and hemp rope or other durable material approved by the Owner. The joint sealing compound shall be a non-toxic bituminous

plastic cement compound that can be applied with a trowel, caulking gun or similar tools. The compound shall exhibit good adhesive properties, resist shrinkage, and be manufactured especially for sealing sewer pipe joints.

PART 3 – EXECUTION

3.01 PIPE INSTALLATION

- A. Pipe storage, handling, and installation, etc. shall be performed in accordance with the other respective sections of these specifications, and per the manufacturer requirements.

3.02 SEWER LATERAL CONNECTIONS

- A. All sewer connections shall be identified in the field prior to performing a pipe point repair. Existing house connections / service laterals shall be reconnected immediately after pipe point repairs are complete at no direct payment. Refer to the appropriate specification section for any service laterals to be replaced as authorized by the Owner.

3.03 NOTIFICATION OF WORK

- A. The installation Contractor shall make every effort to maintain sewer service and positive drainage throughout the duration of the work.
- B. A public notification program shall be implemented, and shall as a minimum, require the Contractor to be responsible for contacting each home or business connected to the sanitary sewer and informing them of the work to be conducted, and when the sewer will be off-line. The Contractor shall notify all residents affected by this construction at least 48 hours prior to any service disruption affecting their service connection. The Contractor shall also provide the following:
 - 1. Written notice to be delivered to each home or business one week prior to the beginning of work being conducted on the section, and a local telephone number of the Contractor they can call to discuss the project or any potential problems. Written notification and delivery shall be performed at no direct pay.
 - 2. Personal contact with any home or business, that cannot be reconnected within the time stated in the written notice.
- C. The Contractor shall submit a copy of the door hanger/letter to the Owner and Project Manager for approval before the start of construction activities.

3.04 SEWER BYPASSING AND DEWATERING

- A. When required by the process, the Contractor shall bypass the sewer flow around the work and dewater the work area. The Contractor will be required to submit, for approval

by the Owner, a detailed plan of the method the Contractor proposes to maintain the existing flow during construction for each repair site. The plan must include a provision for handling the existing peak flow by pumping or bypassing. If pumping is used, an identical standby pump(s) shall be on site in the event of failure of the primary pump(s). Refer to the Bypass Pumping specification section.

- B. If, at any time during construction, effluent from the existing sewer is not fully contained by the bypass system, gravity service will be restored and work shall be suspended until the problem is resolved to the satisfaction of the Owner's Representative. Sewer system overflows will not be tolerated. Any fines associated with overflows, caused by the Contractor's work imposed on the Owner, will be paid by the Contractor. Payment for this work shall be included in the unit prices bid.
- C. The Contractor shall perform all pumping and bailing necessary to maintain excavation in a dry state during the work. When the Contractor desires to use well pointing, the Contractor shall demonstrate to the Owner that the trench side slopes and trench bottom cannot be held stable and well pointing is necessary for proper installation of the pipe. Dewatering shall be provided at no direct cost to the Owner but shall be absorbed in the unit price of other items of work.

3.05 INSPECTION AND CLEANING

- A. After completion of each required point repair on a line segment, but prior to backfilling, the repaired section will be isolated by plugging the other sewers in the upstream and downstream manholes. Smoke testing shall then be performed on that section of sewer pipe for a minimum period of 5 minutes in the presence of the Owner's Representative. It is the Contractor's responsibility to notify the Owner's Representative when testing will be performed. Refer to the Smoke Testing specification section. If after 5 minutes, no smoke emerges from the repaired section, then the repair shall be deemed to have passed the test. If the section of sewer fails the test, the leak shall be repaired and retested as specified. Any repairs required, as a result of a test failure, will be accomplished by the Contractor at no expense to the Owner. After the pipe is field inspected and smoke tested, the Contractor shall perform sewer cleaning. The smoke testing and pipe cleaning shall be considered incidental to the work and included in the respective pipe bursting pay item.

(End of Section)

SECTION 02 61 50
DUCTILE IRON PIPE FITTINGS

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment, and incidentals required and install ductile iron pipe, and ductile iron fittings for installation as needed to complete the emergency sewer system maintenance and repair work per issued Work Orders or Directives, and/or as directed and authorized by the Owner or the Owner's Representatives.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 312300: Earth Excavation and Backfill in Trenches
- B. Typical details.

1.03 SUBMITTALS

- A. The Contractor shall submit to the Engineer, within ten days prior to shipment of material to the job site, a list of materials to be furnished, the names of the suppliers and the date of delivery of materials to the site. Certified mill tests shall be furnished for metal products.
- B. The Contractor shall submit and shall comply with the recommendations of the pipe manufacturer for handling, storing, and installing pipe and fittings.
- C. The Contractor shall submit the pipe manufacturer's certification of compliance with the specifications.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Ductile iron pipe shall conform to ANSI A21.51 and AWWA C151. Thickness of pipe shall be Class 51 for 8" diameter and smaller, class 52 for 10" diameter and larger.
- B. Restrained joints shall be provided for buried locations. Restrained joint pipe and fittings for 12" and smaller diameter pipe shall be "Mechanical Joint with Retainer Gland" as manufactured by American Cast Iron Pipe Company, "Lok-Tyton" or "TR FLEX" as manufactured by U.S. Pipe Company, "Super-Lock" as manufactured by Clow Corporation, or equal. Restrained joint pipe and fittings for 14" and larger diameter pipe shall be "Lok- Fast" as manufactured by American Cast Iron Pipe Company, "Lok-Tyte"

as manufactured by U.S. Pipe Company, "Super-Lock" as manufactured by Clow Corporation, or equal. Where bolts are required, they shall be stainless steel.

- C. Fittings shall meet the requirements of ANSI/AWWA C110. Rubber gaskets shall conform to ANSI A21.11 for mechanical joints.

D. Coatings

1. Interior Ceramic Epoxy Lining

- a. Except as otherwise indicated, interior surfaces of ductile iron pipe, fittings, and specials shall be cleaned and lined in the shop or by certified coating manufacturer installer with a an epoxy lining meeting all the performance characteristics of Protecto 401, Tnemec Series 431, Permox CTF or approved equal. During the lining operation and thereafter, the pipe shall be maintained in a round condition by suitable bracing or strutting. The lining equipment shall be of a type that has been used successfully for similar work. Every precaution shall be taken to prevent damage to the lining. Pipe shall only be handled from the exterior. No interior handling forks, rods, ropes, straps or other handling means shall be allowed within the pipe. If lining is damaged or found defective at the Site, the damaged or unsatisfactory portions shall be replaced with lining conforming to these Specifications as well as native to the shop applied coating at the expense of the Contractor.
 - i. Material: Novalec epoxy, polyamine ceramic epoxy or amine cured novolac epoxy containing a minimum of 20 percent by volume ceramic quartz pigment meeting all the performance characteristics of Protecto 401, Tnemec Series 431, Permox CTF or approved equal coating system. Certification of test results for coating system shall be provided.
 - ii. Surface Preparation: The surface shall be prepared in strict accordance with the coating system manufacturer's procedures.
 - iii. Application: Coating system shall be factory applied by the ductile iron pipe and fitting manufacturer or a firm certified by the coating system manufacturer in the application the lining system.
 - iv. Lining Thickness: Pipe and fittings shall receive 40 mils, minimum dry film thickness of coating.
 - v. Inspection: Pipe and fitting lining shall be checked for thickness using a magnetic film thickness gauge using the method outlined SSPCPA-2 Film Thickness Rating. Interior lining of pipe and fittings shall be tested for pinholes with a non-destructive 2,500-volt test. Any defects found shall be repaired prior to shipment.

2. Exterior Coating of Pipe

- a. Exterior Coating of Exposed Piping: The exterior surfaces of pipe which will be exposed to the weather or above ground and not subject to immersion or corrosive gases shall be thoroughly cleaned and then given a coating of:
 - i. Two (2) coats of Epoxy Polyamide and a final coat of Cycloaliphatic Amine Epoxy conforming to the below requirements:
 - ii. Surface Preparation for Cast Iron & Ductile Iron: Clean as required to remove all soluble surface contaminants. Abrasive blast all surfaces to be coated in accordance with NAPF 500-03-04 to remove all insoluble surface contaminants and to achieve a minimum surface profile of 1.5 mils

		Dry Film-Mils
1st Coat:	Epoxy-Polyamide Primer	5.0 - 6.0
2nd Coat:	Epoxy-Polyamide Primer	5.0 - 6.0
3rd Coat	Aliphatic Acrylic Polyurethane	5.0 - 6.0

- b. All surface preparation and materials shall be applied in accordance with manufacturer's instructions.
 - i. Exterior Coating of Exposed Piping subject to Immersion or Corrosive Gases: The exterior surfaces of pipe which will be exposed inside structures, immersed or subject to corrosive gases shall be thoroughly cleaned and then coated with:
 1. Prime coat of Polyamidoamine Epoxy Primer and two (2) topcoats of Cycloaliphatic Amine Epoxy conforming to the below requirements:

Surface Preparation for Cast Iron & Ductile Iron: Clean as required to remove all soluble surface contaminants. Abrasive blast all surfaces to be coated in accordance with NAPF 500-03-04 to remove all insoluble surface contaminants and to achieve a minimum surface profile of 1.5 mils

		Dry Film-Mils
1st Coat:	Epoxy-Polyamide Primer	5.0 - 6.0
2nd Coat:	Epoxy-Polyamide Primer	5.0 - 6.0
3rd Coat	Aliphatic Acrylic Polyurethane	5.0 - 6.0

2. All surface preparation and materials shall be applied in accordance with manufacturer's instructions.
- c. Exterior Coating of Buried Piping: The exterior coating shall be an asphaltic coating approximately 1-mil thick.

- d. Buried Piping Polyethylene Sleeve: Sleeves shall conform to the requirements of AWWA C105, and shall be a tubular 8-mil thick linear low-density film. Color shall be black.

2.02 PIPE REJECTION

- A. Should any Ductile or metal pipe arrive on site with a non-approved coating for its intended environment, the coating shall be completely removed and coated, or the pipe material shall be replaced at the expense of the contractor.

2.03 IDENTIFICATION

- A. Each length of pipe and each fitting shall be marked with the name of manufacturer, size and class. All gaskets shall be marked with the name of manufacturer, size, and proper insertion direction.

2.04 MANHOLE AND WET WELL CONNECTIONS

- A. Pipe stubs for all manhole and wet well connections shall not exceed two (2) feet in length. Caps shall be furnished where required.

PART 3 – EXECUTION

3.01 LAYING DUCTILE IRON PIPE AND FITTINGS

- A. All buried piping shall be installed in accordance with recommendations of the pipe manufacturer and as specified herein.
- B. Care shall be taken in handling, storage, and installation of pipe and fittings to prevent injury to the pipe or coatings. All pipe and fittings shall be examined before laying, and no piece shall be installed which is found to be defective. All damage to the pipe coatings shall be repaired according to the manufacturer's recommendations.
- C. All pipe and fittings shall be kept clean and shall be thoroughly cleaned before laying.
- D. Pipe shall be laid to lines and grades shown on the drawings with bedding and backfill as shown on the drawings and as specified in Section 31 23 00. Blocking under the pipe will not be permitted.
- E. When laying is not in progress, including lunch time, the open ends of the pipe shall be closed by watertight plug or other approved means.
- F. Under no circumstances shall the pipe or accessories be dropped into the trench.

3.02 TESTING

- A. All force mains shall be field tested. The Contractor shall supply all labor, equipment, material, gages, pumps, and incidentals required for testing.
- B. The test pressure shall be 50 psig unless noted otherwise. The test pressure shall be measured at the highest point along the test section.
- C. Testing shall be conducted after backfilling has been completed and before placement of permanent surface.
- D. Testing procedure shall be as follows:
 - 1. Fill line slowly with water. Maintain flow velocity less than two feet (2') per second.
 - 2. Expel air completely from the line during filling and again before applying test pressure. Air shall be expelled by means of taps at points of highest elevation.
 - 3. Apply test pressure. Measure the quantity of water that must be pumped into the line to maintain pressure within 5 psi of the test pressure for a period of two (2) hours. This quantity is defined as leakage.
 - 4. Carefully examine any exposed pipe, fittings, and joints during the test.
- E. Allowable leakage: No pipe installation will be accepted if the leakage is greater than that determined by the following formula:

$$L = \frac{SDP^{1/2}}{133200}$$

L = Loss Gal/hr.

S = Length of pipe tested, in feet

D = Nominal diameter in inches

P = Average test pressure

- F. If any test of pipe laid discloses leakage greater than that allowed, the Contractor shall, at his own expense, locate and repair the cause of leakage and retest the line.
- G. All visible leaks are to be repaired regardless of the amount of leakage.
- H. All costs associated with testing procedure shall be the responsibility of the Contractor and included in the respective pay items.

3.03 CLEANING

At the conclusion of the work, the Contractor shall thoroughly clean all of the new pipelines

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by flushing with water or other means to remove all dirt, stones, pieces of wood, or other material which may have entered during the construction period. Debris cleaned from the lines shall be removed from the job site. If, after this cleaning, any obstructions remain, they shall be removed.

(End of Section)

SECTION 02 62 20
POLYVINYL CHLORIDE PIPE

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The Contractor shall furnish and install the polyvinyl chloride (PVC) pipe along with labor, materials (including fittings), equipment, and other incidentals necessary for installation as needed to complete the emergency sewer system maintenance and repair work per issued Work Orders or Directives, and/or as directed and authorized by the Owner or the Owner's Representatives.

1.02 REFERENCES

- A. ASTM D1784 Specification for Rigid Poly(Vinyl Chloride) (PVC) Compounds and Chlorinated Poly(Vinyl Chloride) (CPVC) Compounds
- B. ASTM D1785 Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120
- C. ASTM F441 Specification for Chlorinated Poly(Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80
- D. ASTM F477 Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipe
- E. ASTM F1674 Standard Test Method for Joint Restraint Products for Use with PVC Pipe
- F. AWWA C-900 (PVC) Pressure Pipe and Fabricated Fittings, 4 inches through 60 inches
- G. AWWA C-905 Polyvinyl Chloride (PVC) Water Transmission Pipe, Nominal Diameters 14 In. through 48 In. for Water Transmission and Distribution
- H. Typical Details.

1.03 SUBMITTALS

- A. The Contractor shall submit to the Engineer, within ten days prior to shipment of material to the job site, a list of materials to be furnished, the names of the suppliers and the date of delivery of materials to the site. Certified mill tests shall be furnished for metal products
- B. The Contractor shall submit and shall comply with the recommendations of the pipe manufacturer for handling, storing, and installing pipe and fittings.

- C. The Contractor shall submit the pipe manufacturer's certification of compliance with the specifications.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Pipe:

1. All polyvinyl chloride (PVC) pipe shall be extruded from PVC meeting the requirements of cell classification 12454-B as defined in ASTM D1784.
2. All polyvinyl chloride (PVC) pressure pipe 4 inches through 60 inches in diameter shall meet AWWA C-900, DR18.
3. All polyvinyl chloride (PVC) pipe used to transport raw sewage, treated sewage, sludge, etc., by gravity shall be SDR 26 PVC pipe. Polyvinyl chloride (PVC) pipe in diameters of 4 inches through 15 inches shall meet all requirements of ASTM D3034. Polyvinyl chloride (PVC) pipe in diameters of 18 inches through 36 inches shall meet all requirements of ASTM F679 latest revision or approved equal.
4. All polyvinyl chloride (PVC) pipe used to transport raw sewage, treated sewage, sludge, etc., under pressure shall have a SDR rating of 25 for diameters up to and including 16 inches. The pipe shall have a minimum pressure rating of 165 psi, and compatible for use with cast iron joints and fittings. Polyvinyl chloride (PVC) pipe used to transport raw sewage, treated sewage, sludge, etc., in diameters of 18 inches through 36 inches shall have a SDR rating of 26. Polyvinyl chloride (PVC) pipe in diameters of 4 inches through 60 inches shall meet all requirements of AWWA C-900 specifications.

B. Fitting and Specials:

1. The polyvinyl chloride fitting used in conjunction with Schedule 80 and SDR 25 polyvinyl chloride (PVC) pipe shall be in accordance with all applicable sections of ASTM Specifications.
2. PVC fittings in chlorine solution service shall be Schedule 80, suitable for outdoor installation.
3. The strength class of the fitting shall be not less than the strength of any adjoining pipe.
4. No polyvinyl chloride (PVC) pipe fitting will be allowed on PVC pipe 4 inches are larger used to transport raw sewage, treated sewage, sludge, etc., under pressure.

All bends shall be ductile iron fittings meeting the requirements of specification section 02 61 50.

C. Joints:

1. The pipe shall have integral bell elastomeric, gasketed joints in accordance with ASTM F477. The gaskets shall be inserted into the pipe bell at the factory prior to shipment. Joints for gravity sewer pipe shall be in accordance with ASTM D3212. Joints for C900 PVC shall be in accordance with ASTM 3139.
2. All "O" rings furnished as part of any fitting, union, etc., conveying chloride solution shall be suitable for chlorine solution service.

D. Restrained Joints:

1. Polyvinyl chloride (PVC) pipe shall be restrained using the Series 1100 PV or 1100 HV MEGALUG mechanical joint thrust restraint as manufactured by EBAA Iron, Inc. or approved equal.
2. The EBAA Iron Series 1100 PV or 1100 HV MEGALUG assembly shall be cast completely of closely controlled ductile iron conforming to ASTM A536, latest revision, and furnished with silicone bronze IFI 140 Grade 655 bolts. All glands and bolts shall be coated with two (2) coats of coal tar epoxy, Koppers 300-M Bitumastic or approved equal, with a minimum dry film thickness of eight (8) mils per coat.
3. Both types of restraining glands shall be wrapped with an eight (8) mil thick polyethylene tube for additional protection. The polyethylene wrap shall extend a minimum of two (2') feet in either direction from the gland and secured on the end with circumferential turns of tape.
4. All restrained joints shall be inspected at the job site after installation. Field touch-up and repair if needed shall be made by the Contractor under the supervision and inspection of a representative of the coating supplier.

PART 3 – EXECUTION

3.01 LAYING POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

- A. PVC pipe shall be laid in accordance with the instructions of the manufacturer, as shown on the typical details, and as specified herein. As soon as the excavation is completed to normal grade, the Contractor shall immediately place bedding in the trench. Then, the pipe shall be firmly bedded to conform with all the pipe installation according to the requirements of the typical details, or as otherwise specified.
- B. The Contractor shall use care in handling and installing pipe and fittings. Storage of pipe

on the job site shall be done in accordance with the pipe manufacturer's recommendation and with approval of the Owner's Representative. Under no circumstances shall pipe or fittings be dropped, either into the trench, or during unloading. The interior of the pipe shall be kept clean of oil, dirt, and foreign matter, and the machined ends and couplings shall be wiped clean immediately prior to joining.

- C. The Contractor shall use a PVC pipe cutter where necessary to cut and machine all PVC pipe in the field. A "full insertion mark" shall be provided on each field-cut pipe end. Field-cut pipe shall be beveled with a beveling tool made especially for plastic pipe. Bevels shall be in accordance with the manufacturer's requirements.
- D. Each length of pipe and each fitting shall be marked with the nominal size, the SDR designation, the name of the manufacturer or his trademark, and the date of manufacture.
- E. Rubber gaskets shall be marked with manufacturer's identification sizes and proper insertion direction.
- F. The interior of the pipe and the jointing seal shall be free from sand, dirt, and trash before installing in the line. Extreme care must be taken to keep the bells of the pipe free from dirt and rocks so joints may be properly assembled without over stressing the bells. The jointing of the pipe shall be done in strict accordance with the pipe manufacturer's instructions, and shall be done entirely in the trench.
- G. Each time the work is halted for more than one (1) hour, the ends of the pipe shall be closed to prevent foreign material from entering the pipe either by watertight plug or other approved means.

3.02 TESTING AND INSPECTION

- A. All pipe and fittings shall be subjected to a rigid inspection after delivery to the site and before being placed in the work. Any piece found defective by such field inspection will be rejected and shall be immediately removed from the premises.
- B. Sewer Force Mains shall be tested to a pressure of 50% above the normal operating pressure or to 100 psi whichever is greater. This pressure shall be maintained for a period of 2 hours with no discernible pressure loss. Leaks shall be repaired by removing and replacing defective segments. The pressure test must be performed under the supervision of the Parish Utilities Department's representative. Only after the satisfactory pressure testing is completed can the segments be tied into the existing sewer force main or manhole. Under no circumstances will the Contractor be allowed to make a tie-in to the existing sewer system without direct supervision of the Parish Utilities Department.
- C. Gravity Sewer lines shall be low pressure air tested in accordance with ASTM F 1417.
- D. All costs associated with the testing procedure shall be the responsibility of the Contractor and included in the respective pay items.

3.03 CLEANING

At the conclusion of the work, the Contractor shall thoroughly clean all of the new pipelines by flushing with water or other means to remove all dirt, stones, pieces of wood, or other material which may have entered during the construction period. Debris cleaned from the lines shall be removed from the job site. If, after this cleaning, any obstructions remain, they shall be removed.

(End of Section)

SECTION 02 62 30
HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment and incidentals required and install high density polyethylene (HDPE) pipe and fittings for installation as needed to complete the emergency sewer system maintenance and repair work per issued Work Orders or Directives, and/or as directed and authorized by the Owner or the Owner's Representatives.

1.02 RELATED WORK

- A. Section 31 23 00: Earth Excavation and Backfill in Trenches
- B. Typical Details

1.03 SUBMITTALS

- A. Submit to the Engineer, in accordance with contract documents, the following information:
 - 1. List of materials to be furnished, the names of the suppliers and the date of delivery of materials to the site.
 - 2. The origin of the resin to be used in the manufacturing of the pipe including the supplier's name and production plant, as well as brand name and number.
 - 3. Documentation from the resin's manufacturer showing results of the following tests for resin identification:
 - a. Melt Flow Index – ASTM D1238
 - b. Density – ASTM D1505
 - 4. Manufacturer quality control manual describing implementation of quality control procedures during pipe manufacturing process.
 - 5. Pipe manufacturer's certification of compliance with this Section.
 - 6. Manufacturer's recommendations for handling, storing and installing pipe and fittings.
 - 7. For each shipment of pipe of manufacturer's certification that the pipe was manufactured from the same resins identified above.

8. Name, address and telephone number for manufacturer and distributor.

1.04 REFERENCE STANDARDS

A. American Society for Testing and Materials (ASTM)

1. ASTM D1238 – Standard Method for Flow Rates Thermoplastics by Extrusion Plastometer.
2. ASTM D1248 – Standard Specification for Polyethylene Plastic Molding and Extrusion Materials.
3. ASTM D1505 – Standard Test Method for Density of Plastics by the Density- Gradient Technique.
4. ASTM D1603 – Standard Test Method for Carbon Black in Olefin Plastics.
5. ASTM D2657 – Standard Practice for Heat-Joining Polyethylene Pipe and Fittings.
6. ASTM D2837 – Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials.
7. ASTM D3350 – Standard Specifications for Polyethylene Plastic Pipe and Fittings Materials.
8. ASTM F593 – Standard Specifications for Stainless Steel Bolts, Hex Cap Screws, and Studs.
9. ASTM F714 – Standard Specifications for Polyethylene (PE) Plastic Pipe (SDR- PR) Based on Outside Diameter.

B. American National Standards Institute (ANSI)

1. ANSI B16.1 – Grey Iron Fittings and Flanged Fittings.
2. ANSI B16.21 – Non-Metallic Flat Gaskets for Pipe Flanges.

- C. Where reference is made to one of the above standards, the revision in effect at the time of bid opening shall apply.

1.05 QUALITY ASSURANCE

- A. All HDPE pipe and fittings shall be manufactured by a single manufacturer who is fully experienced, reputable and qualified in the manufacture of the polyethylene pipe to be furnished. All HDPE pipe and fittings shall be supplied by a single distributor who is fully experienced, reputable, and qualified with the distribution of the pipe to be furnished. The pipe shall be designed, constructed, and installed in accordance with the best practices and methods and shall comply with these specifications.
- B. All HDPE pipe to be installed under this Contract may be inspected at the factory for compliance with this Section by an independent testing laboratory provided by the Owner. The manufacturer's cooperation shall be required in these inspections. The cost of these plant inspections of all pipe approved for this Contract, plus the cost of inspection of a

reasonable amount of disapproved pipe, will be borne by the Owner.

- C. Inspection of the pipe may also be made by the Engineer or other representatives of the Owner after delivery. The pipe shall be subject to rejection at any time on account of failure to meet any of the specified requirements, even though pipes may have been accepted as satisfactory at the place of manufacture. Pipe rejected after delivery shall be marked for identification and shall immediately be removed from the job.

D. Resin Evaluation

1. All incoming resin shall be sampled for conformance testing against test results supplied by the resin manufacturer. Samples shall be taken from the top and bottom of each compartment from every hopper car received. The following conformance tests shall be performed on the sample:
 - a. Melt Flow Index – ASTM D1238
 - b. Density – ASTM D1505
 - c. The results of these tests shall become part of the manufacturer's permanent quality control records.

E. Finished Product Evaluation

1. Each length of pipe produced shall be checked by production staff for the items listed below. The results of all measurements shall be recorded on production sheets that become part of the manufacturer's permanent records.
 - a. Pipe in process shall be checked visually, inside and out for cosmetic defects, (grooves, pits, hollows, etc.).
 - b. Pipe outside diameter shall be measured using a suitable periphery tape to ensure conformation with ASTM F714.
 - c. Pipe wall thickness shall be measured at 12 equally spaced locations around the circumference at both ends of the pipe to ensure conformance with ASTM F714.
 - d. Pipe length shall be measured.
 - e. Pipe marking shall be examined and checked for accuracy.
 - f. Pipe ends shall be checked to ensure they are out square and clean.
 - g. Subject inside surface to a "reverse and test" to ensure the pipe is free of oxidation (brittleness).

F. Stress Regression Testing

1. The polyethylene pipe manufacturer shall provide certification that stress regression testing has been performed on the specific polyethylene resin being utilized in the manufacture of this product. This stress regression testing shall have been done in accordance with ASTM D2837 and the manufacturer shall provide a product supplying a minimum Hydrostatic Design Basis (HDB) of 1600 psi as determined in accordance with ASTM D2837.

1.06 WARRANTY

- A. The pipe manufacturer shall provide a warranty against manufacturing defects of material and workmanship for a period of ten years after the final acceptance of the project by the Owner. The manufacturer shall replace, at no additional cost to the Owner, any defective pipe material within the warranty period.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Pipe

1. HDPE pipe is a flexible conduit and shall be designed to transfer imposed loads to the surrounding embedment medium. The pipe and fittings shall be free from all defects including indentations, delaminations, cracks, bubbles, pinholes, inclusions or occlusions which, due to their nature, degree, or extent, detrimentally affect the strength and serviceability of the pipe. Any pipe or fittings with such defects that, in the judgment of the Engineer, will affect the strength and serviceability shall be repaired or rejected.
2. HDPE pipe resins shall be high molecular weight, high-density polyethylene with a cell classification number of 345444C in accordance with ASTM D3350. Pipe materials shall meet the requirements of Type III, Class C, Category 5, Grade P34 as defined in ASTM D1248, with a standard grade rating of 1600 psi at 73 degrees F and have a PPI recommended designation of PE 3408. Clean rework material generated by the manufacturer's own production may be used so long as the pipe or fittings produced meet all the requirements of this Section.
3. Polyethylene pipe shall be as manufactured by Chevron Phillips Chemical Company LP Performance Pipe; CSR Polypipe; US Fusion LLC or equal.
4. The polyethylene compound shall be suitably protected against degradation by ultraviolet light as required by ASTM D1603.
5. The pipe shall have the nominal dimensions shown on the Drawings and shall conform to the dimension requirements of the ductile iron pipe sizing system. The pipe shall meet the dimension requirements of Standard Dimension Ratio (SDR) 11.
6. All polyethylene pipe shall meet the requirements of ASTM F714.
7. The pipe shall be joined with burr, heat fusion joints. All joints shall be made in strict compliance with the manufacturer's recommendations.
8. Pipe shall be furnished in standard laying lengths not exceeding 50 ft.

9. All high-density polyethylene pipe and fittings shall be made from the same resin.
10. Fittings shall be fully pressure rated to match the pipe SDR pressure rating. All fittings shall be molded or fabricated by the manufacturer.

B. TRACING WIRE

1. All non-metallic pipe shall be marked with an electronic tracer wire and a detector tape. Tracer wire shall be laid directly over the pipe and shall terminate in valve boxes or pipeline markers. Detector tape shall be placed in the trench during backfilling and shall be placed about 12 inches from the top of the ground.
2. Tracer wire used with PVC or PE pipe shall be 14-gauge single strand copper with THWN coating for buried service. Splices in the tracer wire shall be made using a waterproof mechanical splice kit specifically designated for underground connections to electrical or telephone wiring. Splice connection methods shall be approved by the Engineer prior to use.
3. Detector tape shall be color coded, foil backed and printed with the marking "WARNING/CAUTION WASTEWATER LINE BURIED BELOW." Detector tape shall be laid in the trench while backfilling and shall be placed about 12 inches from the top of the ground.

2.02 PIPE IDENTIFICATION

- A. The following shall be continuously indent printed on the pipe or spaced at intervals not exceeding 5-ft:
 1. Name and/or trademark of the pipe manufacturer.
 2. Nominal pipe size.
 3. Standard dimension ratio.
 4. The letters PE followed by the polyethylene grade in accordance with ASTM D1248, followed by the hydrostatic design basis in 100's of psi, e.g., PE 3408.
 5. Manufacturing standard reference, e.g., ASTM F714.
 6. A production code from which the date and place of manufacture can be determined.

PART 3 – EXECUTION

3.01 HANDLING

- A. Handling and laying of pipe and fittings shall be in accordance with the manufacturer's instruction and as specified herein.
- B. Pipes shall be stored on clean level ground, preferably turf or sand, free of sharp objects that could damage the pipe. Stacking of the polyethylene pipe shall be limited to a height that will not cause excessive deformation of the bottom layers of pipes under anticipated temperature conditions. Where necessary, due to ground conditions, the pipe shall be stored on wooden sleepers, spaced suitably and of such width as not to allow deformation of the pipe at the point of contact with the sleeper or between supports.
- C. Care shall be taken in loading, transporting, and unloading to prevent injury to the pipe. The handling of the pipe shall be in such a manner that the pipe is not damaged by dragging it over sharp and cutting objects. Ropes, fabric, or rubber protected slings and straps shall be used when handling pipes. Chains, cables or hooks inserted into the pipe ends shall not be used. Two slings spread apart shall be used for lifting each length of pipe. Slings shall not be positioned at butt-fused joints. Pipe or fittings shall not be dropped.
- D. All pipe or fittings shall be examined before laying and no piece shall be installed which is found to be defective. The maximum allowable depths of cuts, scratches or gouges on the exterior of the pipe are 10 percent of wall thickness. The interior pipe surface shall be free of cuts, gouges or scratches. Any damage to the pipe shall be repaired as directed by the Engineer. If any defective pipe section is discovered after it has been laid, it shall be removed completely and the ends of the pipeline rejoined, at the Contractor's expense.

3.02 LAYING PIPE AND FITTINGS

- A. All pipe and fittings shall be thoroughly cleaned before laying, shall be kept clean until they are used in the work and when laid, shall conform to the lines and grades shown on the Drawings.
- B. All pipe shall be sound and clean before laying (or hanging). Good alignment shall be preserved in laying. The deflection shall not exceed that recommended by the manufacturer.
- C. When laying is not in progress, including during lunchtime, the open ends of the pipe shall be closed by watertight plugs or other approved means. All plugs shall be OD fitting plugs. No plugs will be allowed that require insertion of the plug into the pipe.
- D. When cutting pipe is required, the cutting shall be done by machine, leaving a smooth cut at right angles to the axis of the pipe.
- E. The pipe shall be joined by the method of thermal butt fusion, as outlined in ASTM D2657. All joints shall be made in strict compliance with the manufacturer's recommendations by a factory qualified joining technician as designated by the pipe manufacturer with a

minimum of three years' experience with the fusion equipment to be used.

- F. Fittings shall be connected to HDPE pipe in accordance with manufacturer's recommendations.
- G. Flanged connections shall consist of the following:
 - 1. A high density polyethylene flange adapter, made by the manufacturer from the same resin as the pipe, and fully pressure rated to match the pipe SDR pressure rating, thermally butt-fused to the stub end of the pipe.
 - 2. A stainless steel back-up ring (conforming to ANSI B16.1) fitted to the polyethylene flange adapter and shaped as necessary to suit the outside dimension of the pipe.
 - 3. A full-face neoprene gasket, conforming to ANSI B16.21.
 - 4. Corrosion resistant bolts and nuts of Type 316 stainless steel as specified in ASTM F593. Bolts shall be tightened alternatively and evenly to the manufacturer's specified torques. After installation a bitumastic coating shall be applied to bolts and nuts.
 - 5. Contractor shall refer to pipe manufacturer's requirements for appropriate bolting procedure.
- H. Where polyethylene pipe is connected to valves, where the inside pipe diameter is smaller than the diameter of the valve disk, HDPE valve spacers shall be placed between the flanges of the valve and pipe. Valve spacers shall be manufactured by the HDPE pipe manufacturer and shall meet the same requirements as the HDPE pipe and fittings. Valve spacers shall be installed as recommended by the manufacturer. Care shall be taken to ensure that the valve disk can turn easily without coming into contact with valve spacers or pipe wall, and to ensure that no leakage will occur at the spacer.
- I. Mechanical connections of HDPE pipe to Ductile Iron or PVC piping, mechanical joint fittings, or valves shall be through a self-restraining, fusible mechanical joint adaptor with an integral, internal stainless-steel insert. Mechanical joint adaptor shall be of the same SDR rating as the pipe. A separate, loose insert will not be allowed.

3.03 TESTING

- A. Contractor shall supply all labor, equipment, material, gauges, pumps, meters, and incidentals required for testing. Pressure test each non-potable water force main upon completion of laying the pipe. SFM lines shall be tested to 100 psi.
- B. All costs associated with testing procedure shall be the responsibility of the Contractor and included in the respective pay items.

3.04 CLEANING

- A. At the conclusion of the work, the Contractor shall thoroughly clean all of the new pipelines by flushing with water or other means to remove all dirt, stones, pieces of wood, or other material which may have entered during the construction period. Debris cleaned from the lines shall be removed from the job site. If, after this cleaning, any obstructions remain, they shall be removed.

(End of Section)

SECTION 02 70 00
SEWER FORCE MAINS

PART 1 - GENERAL

1.01 RELATED ITEMS SPECIFIED ELSEWHERE

- A. Earth Excavation and Backfill in Trenches specification section
- B. Ductile Iron Pipe and Fittings specification section
- C. Polyvinyl Chloride (PVC) Pipe specification section
- D. High Density Polyethylene Pipe and Fittings specification section

1.02 DESCRIPTION

- A. Under this section of the specifications, the Contractor shall furnish all labor, materials, tools and equipment necessary for the installation of sewer force main and restrained force main as needed to complete the emergency sewer system maintenance and repair work per issued Work Orders or Directives, and/or as directed and authorized by the Owner or the Owner's Representatives. Other items also contained in this section of the specifications include joint restrainers, casing pipe and PVC, ductile iron, and HDPE pipe. All work is to be done in accordance with the typical details and project specifications, and in accordance with manufacturers' recommendations.

1.03 PRODUCT DELIVERY, HANDLING AND STORAGE

- A. The equipment specified herein shall be packaged and shipped in a manner that shall adequately protect the equipment from damage. Upon receipt of the equipment and materials by the Contractor, the equipment and materials shall be stored in a location within the Contractor's staging area remote from possible damage. If any equipment or materials are damaged, lost or stolen at any time prior to acceptance of the project, it shall be replaced at the Contractor's expense.

PART 2 - PRODUCTS

2.01 DUCTILE IRON PIPE AND FITTINGS

- A. Ductile iron pipe and fittings shall be as specified in other sections of these specifications.

2.02 POLYVINYL CHLORIDE (PVC) PIPE

- A. PVC pipe shall be as specified in other sections of these specifications.

2.03 HIGH DENSITY POLYETHYLENE (HDPE) PIPE

- A. HDPE pipe shall be as specified in other sections of these specifications.

2.04 JOINT RESTRAINERS

- A. Ductile Iron fittings for pipe joint restrainers shall be as specified in other sections of these specifications.

PART 3 - EXECUTION

3.01 GENERAL

A. Excavation and Backfill

Excavation, backfill and compaction required for the installation of the force main shall comply with the requirements of other sections of these specifications.

B. Advance Trench Excavation

1. The Contractor shall excavate the sewer force main trench adequately in advance of any pipe installation as to uncover potential conflicts with the sewer force main. Should conflicts arise the Contractor shall deflect the force main above or below the conflicting utility or house connection.
2. Where the length of force main being installed is less than 50', the Contractor shall excavate the entire length of the trench. In the event of a conflict, the Contractor shall deflect the force main above or below the conflicting utility or house connection or install a vertical offset in the force main.
3. The Contractor, prior to the end of each working day, shall backfill the open trench to grade. In addition, the contractor is to block the end of the open pipe to prevent access to the interior of the pipe of varmints, animals, etc.

C. Restrained Joints

1. The force mains shall be restrained as shown on the typical details, or as directed by the Owner / Owner's Representative. The encased force main installations shall be fully restrained. Restraining shall be accomplished by use of ductile iron restrainer glands as required in the Ductile Iron Pipe and Fittings specification section. Thrust block restraints shall not be allowed unless otherwise directed.

D. Pipe Installation and Testing

1. All laying and jointing and all testing for defects and for leakage shall be performed in the presence of the Owner and shall be subject to its approval before acceptance.

All materials found during the progress to have defects will be rejected and the Contractor shall promptly remove such defective material from the site of the work.

3.02 PIPE INSTALLATION (FORCE MAIN)

- A. The installation of force main pipe shall be strictly in accordance with the manufacturer's technical data and instructions. Proper implements, tools and facilities shall be provided and used by the Contractor for the safe and convenient prosecution of the work. All pipe, fittings and appurtenances shall be carefully lowered into the trench piece by piece by means of a derrick, ropes or other suitable tools or equipment in such a manner as to prevent damage to materials and protective coatings and linings. Under no circumstances shall materials be dropped or dumped into the trenches.
- B. All pipe, fittings, and appurtenance shall be inspected for defects and cracks prior to being lowered into the trench.
- C. The outside of the spigot, the inside of the bell, and any couplings used shall be brushed and wiped clean and dry and free from all foreign matter before the pipe is joined.
- D. Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line. If the pipe laying crew cannot put the pipe into the trench and in place without getting earth into it, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is to be made to the adjacent pipe. During the laying operations, no debris, tools, clothing, or other material shall be placed in the pipe.
- E. After placing a length of pipe in the trench, the spigot end shall be centered in the bell and the pipe forced home and brought to correct line and grade. Bedding and backfill material and compaction requirements shall comply with the other applicable sections of these specifications. Precautions shall be taken to prevent dirt from entering the joint space.
- F. At times when pipe laying is not in progress, the open ends of pipe shall be closed by a watertight plug or other means approved by the Owner. This provision shall apply during the noon hour (lunch period) as well as overnight. If water is in the trench, the seal shall remain in place until the trench is pumped completely dry.
- G. Cutting of pipes for inserting fittings or closure pieces shall be done in a neat and workmanlike manner in accordance with instructions of the pipe manufacturer and without damage to the pipe.
- H. The Contractor shall install restrained ductile iron fittings (mechanical joint with retainer glands) at locations where piping alignment adjustments (vertical and horizontal) are required. Restrained ductile iron fittings shall conform to the section pertaining to Ductile Iron Pipe and Fittings of these specifications.

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- I. The sewer force main shall be pressure tested in accordance with the "Testing" requirements included in the other applicable sections of these specifications.

(End of Section)

SECTION 02 76 00
DIRECTIONAL DRILLING

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. The work covered by this section of the Specifications consists of plant, labor, equipment, and materials, and of performing all operations in connection with the installation of high-density polyethylene (HDPE) pipe by the use of the horizontal directional drilling method complete. The work shall be done in strict accordance with this and other applicable sections of the specifications, all applicable typical details, and subject to the terms and conditions of the contract.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 02 62 30 HDPE Pipe & Fittings.

1.03 QUALITY ASSURANCE

- A. HDPE pipe jointing shall be performed by personnel trained in the use of joint fusion recommended methods for pipe liner connections. Personnel directly involved with installing the pipe shall receive training in the proper methods for handling, inserting, trimming, and finishing the pipe.

1.04 SUBMITTALS

- A. The Contractors shall develop a summary work plan report and proposed profile drawing(s) for the installation by directional drilling. The summary report should include the proposed staging area(s), fusing/laydown area(s), traffic impacts, resident access impacts, pedestrian impacts, boring and receiving pit locations, fracking control procedures and anticipated schedule(s). The Contractor's proposed work plan and profile drawing shall be subject to review and written approval by the Owner. The profile drawing and drilling work plan shall be submitted to the Owner & Project Manager at least fourteen (14) days prior to start the construction. It will be the Contractor's responsibility to determine the entry pilot hole and exit location within the permitted locations as approved by the Owner's Representative. It will be the Contractor's responsibility to determine the staging, laydown, and fusing areas, subject to Owner approval.
- B. Shop drawings, catalog data and manufacturer's technical data showing complete information on material composition, physical properties and dimensions of pipe fittings shall be submitted. Include manufacturer's recommendation for handling, storage, and repair of pipe fittings if damaged.

- C. Contractor shall submit calculations showing design of pipe wall strength based on amount of pull back required for the pipe installation. The pull back force shall not exceed 50% of the pipe tensile strength. The radius of bending shall not exceed the requirements in the table below. The pipe shall be designed for a minimum of 1.25 times the specified pressure.

HDPE Pipe SDR	Minimum Long Term Cold Bending Radius of HDPE
9 or less	20 X pipe OD
11, 13.5	25 X pipe OD
17, 21	27 X pipe OD
26	34 X pipe OD
32.5	42 X pipe OD
41	52 X pipe OD
Fitting or flange present	100 X pipe OD

PART 2 - PRODUCTS

2.01 POLYETHYLENE PIPE

- A. The wall thickness shall be designed by the Contractor, and approved by the Owner's Representative.
- B. The wall thickness of the pipe shall be in accordance with table A above, but in no case less than wall thickness Class SDR11.

2.02 TRACER WIRE AND SYSTEM

- A. All products shall be Copperhead or approved equal and color coded per APWA utility standard markings. System shall be installed per manufacturer's recommendations.
- B. HDPE insulated #12 AWG extra high strength copper clad steel conductor with a break load of 1100 lbs. min. and direct bury rated.
- C. Connectors shall be subsurface dielectric and silicone filled. Taped connectors are prohibited.
- D. Test Stations and termination points shall be subsurface heavy duty rated with connection lids and encapsulated magnet.
- E. Magnesium anode grounding rods.

PART 3 – EXECUTION

3.01 LAUNCHING AND RECEIVING PITS

- A. The approximate locations of all expected launching and receiving pits to be per the submitted Owner approved Contractor work plan and profile drawing. The actual number and location of the pits shall be decided by the Contractor and approved by the Owner prior to excavation.
- B. Launching and receiving pits shall be backfilled and the surrounding area restored in accordance with the appropriate sections of these specifications.

3.02 UTILITY COORDINATOR

- A. Before any excavation is done for any purpose, it will be the responsibility of the Contractor to check with the various utility companies and determine the location of their facilities. Any necessary temporary construction easements and/or right-of-way areas will be arranged by the Contractor at no cost to the Owner.

3.03 DIRECTIONAL DRILLED REQUIREMENTS

- A. The pilot hole shall be drilled along the path shown on the approved plan and profile drawing. The pilot hole tolerances are as follows:
 - 1. Elevation: +0 feet, -5 feet
 - 2. Alignment: + or – 5 feet.
 - 3. Entry Point Location: The pilot hole shall initially penetrate the ground surface area at the exact location shown on the approved drawings or otherwise approved by the Owner in the field.
 - 4. Exit Point Location: The pilot hole shall finally penetrate the ground surface within + or – 5 feet of the alignment shown on the drawing and with +15 feet and –0 feet of the length shown on the drawings.
 - 5. Depth of directionally drilled force main shall be a minimum of 4 feet and not exceed 25 feet without written approval of the Owner.
- B. The Contractor shall at all times provide and maintain instrumentation which will accurately locate the pilot hole (both horizontal and vertical displacement points), measure drill sting axial and torsional loads, and measure drilling fluid discharge rate and pressure. The Owner / Owner's Representative will have access to these instruments and their readings at all times during the drilling and pull back operations. A final "as built" plan and profile shall be submitted to the Owner within five (5) days after completing the pull back. The Contractor shall also furnish a copy of the drilling plan at this time.

- C. Pre-reaming operations shall be conducted at the discretion of the Contractor. All provisions of these specifications relating to simultaneous reaming and pulling back operations shall also pertain to pre-reaming operations.
- D. The maximum allowable tensile load imposed on the pull section shall not exceed 90% of the product of the specified minimum yield strength of the pipe and the area of the pipe section, or the requirements as specified herein.
- E. A swivel shall be used to connect the pull section to the assembly to minimize torsional stress imposed on the section.
- F. The pull back section of the pipeline shall be supported as it proceeds during pull back so that it moves freely and the pipe is not damaged.
- G. The pull back section shall be installed in the reamed hole in such a manner that external pressures are minimized. Any damage to the pipe resulting from external pressure during installation shall be the responsibility of the Contractor.
- H. Buoyancy modification shall be used at the discretion of the Contractor. Any buoyancy modification procedure proposed for use shall be submitted to the Owner for approval. No procedure shall be used that has not been approved by the Owner. The Contractor is responsible for any damage to the pull section resulting from buoyancy modification.

3.04 DRILLING FLUIDS AND WATER

- A. All drilling fluids, mud or other chemicals used by Contractor must be submitted to Owner for approval. No fluid will be approved or utilized that does not comply with permit requirements and environmental regulations.
- B. The Contractor shall ensure all drilling fluids and waste are disposed in a manner acceptable to all local, state and federal agencies.

3.05 FRACTURING DAMAGE

- A. The Contractor shall be responsible for any damage to pipes, utilities, pavements, sidewalks, driveways, landscaping, canal banks, manholes, parking lots, and private areas and facilities that may be caused by fracturing, drilling, reaming, swabbing and pulling operations.

3.06 FRACTURING AND RETURN LOSS CONTROL AND REMEDIATION

- A. In the event that a drilling fluid fracture (frac out), inadvertent returns or returns loss occurs during HDD operations, Contractor shall cease operations; notify Owner and all appropriate regulatory agencies. HDD Operations shall not continue until the Owner is satisfied and the Contractor has appropriate responses and solutions for existing

fracture clean-up and future fracture sites.

- B. Contractor shall immediately contain and clean-up drilling fluid loss prior to continuing HDD operations. Contractor shall prevent drilling fluids from entering streets, adjacent properties, streams or other water bodies and municipal storm or sanitary sewer lines, manholes and drainage structures.
- C. At no time will fracking material be allowed to enter the drainage system. If fracking material inadvertently enters the drainage system, the contractor shall clean by mechanical or manual means and methods all effected drainage structures, pipes or canals to the satisfaction of the Engineer and/or Parish personnel in a timely manner.
- D. Contractor will dedicate personnel to continuously monitor the drilling alignment for fractures. Contractor shall have ample equipment, material, and personnel on hand to expeditiously contain and clean all “fracking” sites. The contractor shall make a concentrated effort to remove as much fracking material as possible by mechanical or manual means and methods. Fracking material shall be disposed of in a legal manner. The washing or hosing down of fracking material will not be permitted. Upon acceptable cleanup of fracking sites, sand, seed and/ or sod will be used to remediate the area(s) to their original condition.
- E. No additional payment shall be made for cleanup costs required by Owner or regulatory agencies due to loss of drilling fluid.
- F. If mud fracture or returns loss continues, Contractor will cease operations, notify Owner to discuss additional options to control or minimize the loss and work will then proceed accordingly.

3.07 TESTING

- A. Pipe shall be tested both before and after installation in accordance with the HDPE Pipe & Fittings specification section.
- B. Tracer wire shall be tested in the presence of the Owner upon completion of the tracer system.

(End of Section)

SECTION 03 30 00
CAST-IN-PLACE CONCRETE

PART 1 – GENERAL

1.01 DESCRIPTION

- A. Contractor shall provide all labor, materials, equipment and incidentals as shown, specified and required to furnish and install cast-in-place concrete, reinforcement and related materials.
- B. Coordination: Review installation procedures under other Sections and coordinate the installation of items that must be installed in the concrete.

1.02 QUALITY ASSURANCE

A. Source Quality Control

1. Concrete Testing Service:

- a. The owner shall employ acceptable testing laboratory to perform materials evaluation, testing and design of concrete mixes.
- b. The owner's laboratory shall also evaluate concrete delivered to and placed at the site.

2. Quality Control: Testing laboratory will perform sampling and testing during concrete placement, as follows:

- a. Sampling: ASTM C 172.
- b. Slump: ASTM C 143, one test for each load at point of discharge.
- c. Air Content: ASTM C 31, one for each set of compressive strength specimens.
- d. Compressive Strength: ASTM C 39, one set for each 50 cubic yards or fraction thereof for each class of concrete; a minimum of one set for each pour of structural concrete; 1 specimen tested at 7 days, 2 specimens tested at 28 days.

B. Reference Standards: Comply with the applicable provisions and recommendations of the following, except as otherwise shown or specified.

- 1. ACI 301, Specifications for Structural Concrete for Building (includes ASTM Standards referred to herein except ASTM A36).
- 2. ACI 347, Recommended Practice for Concrete Formwork.
- 3. ACI 304, Recommended Practice for Measuring, Mixing, Transporting, and Placing Concrete.
- 4. ACI 315, Manual of Standard Practice for Detailing Reinforced Concrete Structures.

5. ACI 305, Recommended Practice for Hot Weather Concreting.
6. ACI 306, Recommended Practice for Cold Weather Concreting
7. ASTM A36, Structural Steel.
8. Concrete Reinforcing Steel Institute, Manual of Standard Practice, include ASTM Standards referred herein.

1.03 SUBMITTALS

- A. Mix Design: In advance of concrete operations, materials proposed for use in concrete will be sampled and tested to determine their compliance with these specifications. Mix proportions shall be reviewed by the laboratory for each strength and type of concrete required and reports submitted to the Engineer for approval, showing the mix designs. Include the following information in concrete mix design:
 1. Proportions of cement, fine and coarse aggregate, and water
 2. Water-cement ratio, 28-day compressive and design strength, slump, and air content
 3. Type of cement and aggregate
 4. Aggregate gradation
 5. Type and dosage of admixtures
 6. Special requirements for pumping
 7. Range of ambient temperature and humidity for which design is valid
 8. Special characteristics of mix which require precautions in mixing, placing, or finishing techniques to achieve finished product specified
- B. Samples: Submit samples of materials as specified and may be requested by the Engineer including names, sources and descriptions.
- C. Shop Drawings: Submit the following for approval in accordance with the General Requirements and with additional requirements as specified.
 1. Copies of manufacturer's specifications with application and installation instructions for proprietary materials and items, including admixtures and bonding agents.
 2. Drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315, Chapters 1 thru 8. For walls, show elevations to a minimum scale of 3 inch to 1 foot. Show bar schedules, stirrup spacing, diagrams of bent bars, arrangements and assemblies, as required for the fabrication and placement of concrete reinforcement.
 3. List of concrete materials and concrete mix designs proposed for use. Include the results of all tests performed to qualify the materials and to establish the mix designs in accordance with ACI 301, 3.9. Submit written report to ENGINEER for each proposed concrete mix at least 15 days prior to start of Work. Do not begin concrete production until mixes have been reviewed and are acceptable to ENGINEER. Mix designs may be adjusted when material characteristics, job conditions, weather, test results or other

circumstances warrant. Do not use revised concrete mixes until submitted to and accepted by ENGINEER.

4. Laboratory Test Reports: Submit copies of historical laboratory test reports for concrete cylinders, materials and mix design tests. Production of concrete to comply with specified requirements is the responsibility of the contractor.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver concrete reinforcement materials to the site bundled, tagged and marked. Use tags indicating bar size, lengths, and other information corresponding to markings shown on placement diagrams.
- B. All materials used for concrete must be kept clean and free from all foreign matter during transportation and handling and kept separate until measured and placed in the mixer. Bins or platforms having hard clean surfaces shall be provided for storage. Suitable means shall be taken during hauling, piling and handling to insure that segregation of the coarse and fine aggregate particles does not occur and the grading is not affected.

PART 2 – PRODUCTS

2.01 CONCRETE MIX DESIGN

- A. Concrete Paving: Unless noted otherwise, mix design shall be Type B as defined in the Louisiana Standard Specifications for Road & Bridge Construction, 2006 Edition and latest revisions.
- B. Wet Wells, Manholes and Valve Pits: Mix design shall be Class A as defined in the Louisiana Standard Specifications for Roads & Bridge Construction, 2006 Edition.

2.02 CONCRETE MATERIALS

A. Portland Cement:

1. Wet Well and Valve Pit: ASTM C 150, Type II.
2. All other Uses: ASTM C 150, Type I.

B. Aggregates: ASTM C 33

1. Fine Aggregate: Clean, sharp, natural sand free from loam, clay, lumps or other deleterious substances. Dune sand, bank run sand and manufactured sand are not acceptable.
2. Coarse Aggregate: Clean, uncoated, processed aggregate containing no clay, mud, loam, or foreign matter, as follows:
 - a. Crushed stone, processed from natural rock or stone.

- b. Washed gravel, either natural or crushed. Use of slag and pit or bank run gravel is not permitted.
- C. Coarse Aggregate Size: Size to be ASTM C 33, Nos. 57 or 67, unless permitted otherwise by ENGINEER.
- D. Water: Clean, potable.
- E. Air-Entraining Admixture: ASTM C 260.
- F. Water-Reducing Admixture: ASTM C 494. Only use admixtures which have been tested and accepted in mix designs.
- G. Slump Limits: Proportion and design mixes to result in concrete slump at the point of placement of not less than one inch and not more than four inches.

2.03 FORM MATERIALS

- A. Form-facing material in contact with concrete must be lumber, plywood, tempered concrete-form-grade hardboard, metal, plastic, or treated paper that creates specified appearance and texture of concrete surface. Submit product information on proposed form-facing materials if different from that specified herein.
- B. Design formwork, shores, reshores, and backshores to support loads transmitted to them and to comply with applicable building code requirements.
- C. Design formwork and shoring for load redistribution resulting from stressing of post tensioned reinforcement. Ensure that formwork allows movement resulting from application of prestressing force.
- D. Design formwork to withstand pressure resulting from placement and vibration of concrete and to maintain specified tolerances.
- E. Provide temporary openings in formwork if needed to facilitate cleaning and inspection.
- F. Design formwork joints to inhibit leakage of mortar.
- G. Limit deflection of facing materials for concrete surfaces exposed to view to 1/240 of center-to-center spacing of facing supports.
- H. Do not use earth cuts as forms for vertical or sloping surfaces.
- I. Submit product information on proposed form-facing materials if different from that specified herein.

- J. Submit manufacturer's product data on form liner proposed for use with each formed surface.

2.04 REINFORCING MATERIALS

- A. Materials shall be new, of domestic manufacture and shall comply with the following material specifications.
- B. Deformed Concrete Reinforcing Bars: ASTM A615, Grade 60 deformed bars.
- C. Concrete Reinforcing Bars required on the Drawings to be Welded: ASTM A706.
- D. Welded Steel Wire Fabric: ASTM A185. Provide in flat sheets.
- E. Welded Deformed Steel Wire Fabric: ASTM A497.
- F. Welded Plain Bar Mats: ASTM A704 and ASTM A615 Grade 60 plain bars.
- G. Fabricated Deformed Steel Bar Mats: ASTM A184 and ASTM A615 Grade 60 deformed bars.
- H. The following alternate materials are allowed:
 - 1. ASTM A615 Grade 60 may be used for ASTM A706 provided the following requirements are satisfied:
 - a. The actual yield strength of the reinforcing steel based on mill tests shall not exceed the specified yield strength by more than 18,000 psi. Retests shall not exceed this value by more than an additional 3000 psi.
 - b. The ratio of the actual ultimate tensile strength to the actual tensile yield strength of the reinforcement shall not be less than 1.25.
 - c. The carbon equivalency (CE) of bars shall be 0.55 or less.
- I. Reinforcing Steel Accessories
 - 1. Plastic Protected Bar Supports: CRSI Bar Support Specifications, Class 1 – Maximum Protection.
 - 2. Stainless Steel Protected Bar Supports: CRSI Bar Support Specifications, Class 2 – Moderate Protection.
 - 3. Precast Concrete Block Bar Supports: CRSI Bar Support Specifications, Precast Blocks. Blocks shall have equal or greater strength than the surrounding concrete.
 - 4. Steel Protected Bar Supports: #4 Steel Chairs with plastic or rubber tips.
- J. Tie Wire

1. Tie Wires for Reinforcement shall be 16-gauge or heavier, black annealed wire or stranded wire.

2.05 GROUT

- A. Grout shall be a nonshrink grout in accordance with ASTM C1107/C1107M.

2.06 JOINTS

- A. Expansion joint filler shall be preformed expansion joint filler complying with ASTM D1752, Type II cork.

- B. Joint Sealer:

1. Exterior and Interior Joints in Horizontal Planes: Two-Component Polyurethane Sealant:

- a. Polyurethane-based, 2-part elastomeric sealant complying with the following:
 - i. FS TT-S-00227, Type 1 (self-leveling) Class A
 - ii. Water Immersion Bond, FS TT-S-00227; Elongation of 25 percent with no adhesive failure
 - iii. Hardness (Standard Conditions), ASTM C 661: 30-40.
 - iv. Stain and Color Change, FS TT-S-00227 and ASTM C 510: No discoloration or stain.
 - v. Accelerated Aging, ASTM C 793: No change in sealant characteristics after 250 hours in weatherometer.
 - vi. Product and Manufacturer: Provide one of the following:
 - vii. Sonolastic Paving Joint Sealant by Sonneborn Division of Contech Incorporated.
 - viii. Vulkem 255 by Mameco International.
 - ix. Or equal.

PART 3 – EXECUTION

3.01 INSPECTION

- A. The Contractor and his installer shall examine the substrate and the conditions under which Work is to be performed and notify the Engineer of unsatisfactory conditions. Do not proceed with the Work until unsatisfactory conditions have been corrected in a manner acceptable to the Engineer.

3.02 FORMWORK

- A. Verify lines, levels, and centers before proceeding with formwork. Verify that dimensions agree with drawings.
- B. Construct formwork, shoring and bracing to meet design and code requirements, so that resultant finished concrete conforms to required shapes, lines, and dimensions.
- C. Arrange and assemble formwork to permit dismantling and stripping, so that concrete is not damaged during its removal.
- D. Align joints and make watertight, to prevent leakage of mortar disfigured appearance of concrete. Keep form joints to minimum.

- E. Obtain Engineer's review for use of earth forms. When using earth forms, hand-trim sides and bottoms, and remove loose dirt prior to placing concrete.
- F. Arrange forms to allow stripping without removal of principal shores, where and when these are required to remain in place.
- G. Obtain Engineer's review before framing openings in structural members, which is not indicated on drawings.
- H. Provide bracing to ensure stability of formwork. Prop or strengthen previously constructed formwork liable to be overstressed by construction loads.
- I. Provide chamfer strips on external corners of beams.
- J. Construct formwork to maintain following maximum tolerances.
 - 1. Deviation from horizontal and vertical lines.
 - a. 1/4 inch in 10 feet
 - b. 3/8 inch in 20 feet
 - c. 3/4 inch in 40 feet
- K. Apply form release agent on formwork in accordance with manufacturer's recommendations. Apply prior to placing reinforcing steel, anchoring devices, and embedded items.
- L. Do not apply form release agent where concrete surfaces will receive special finishes or applied coverings which are affected by agent. Soak inside surfaces of untreated forms with clean water. Keep surfaces wet prior to placing concrete

3.03 REINFORCEMENT, JOINTS AND EMBEDDED ITEMS

- A. Surface condition, bending, spacing and tolerances of placement of reinforcement shall comply with the CRSI Manual of Standard Practice. The Contractor shall be solely responsible for providing an adequate number of bars and maintaining the spacing and clearances shown on the Drawings.
- B. Except as otherwise indicated on the Drawings, the minimum concrete cover of reinforcement shall be as follows:
 - 1. Concrete cast against and permanently exposed to earth: 3-in
 - 2. Concrete exposed to soil, water, sewage, sludge and/or weather: 2-in (Including bottom cover of slabs over water or sewage)
 - 3. Concrete not exposed to soil, water, sewage, sludge and/or weather:

- a. Slabs (top and bottom cover), walls, joists, shells and folded plate members – 3/4-in
 - b. Beams and columns (principal reinforcement, ties, spirals and stirrups) – 1-1/2-in
- C. Reinforcement which will be exposed for a considerable length of time after being placed shall be coated with a heavy coat of neat cement slurry.
- D. No reinforcing steel bars shall be welded either during fabrication or erection unless specifically shown on the Drawings or specified herein, or unless prior written approval has been obtained from the Engineer. All bars that have been welded, including tack welds, without such approval shall be immediately removed from the work. When welding of reinforcement is approved or called for, it shall comply with AWS D1.4.
- E. Reinforcing steel interfering with the location of other reinforcing steel, conduits or embedded items, may be moved within the specified tolerances or one bar diameter, whichever is greater. Greater displacement of bars to avoid interference shall only be made with the approval of the Engineer. Do not cut reinforcement to install inserts, conduits, mechanical openings or other items without the prior approval of the Engineer.
- F. Securely support and tie reinforcing steel to prevent movement during concrete placement. Secure dowels in place before placing concrete. Reinforcing steel bars shall not be field bent except where shown on the Drawings or specifically authorized in writing by the Engineer. If authorized, bars shall be cold-bent around the standard diameter spool specified in the CRSI. Do not heat bars. Closely inspect the reinforcing steel for breaks. If the reinforcing steel is damaged, replace, Cadweld or otherwise repair as directed by the Engineer. Do not bend reinforcement after it is embedded in concrete unless specifically shown otherwise on the Drawings.
- G. Joints: Provide construction, isolation, and control joints as indicated or required. Locate construction joints so as to not impair the strength and appearance of the structure. Place isolation and control joints in slabs on ground to stabilize differential settlement and random cracking.
- H. Installation of Embedded Items: Set and build into the Work anchorage devices and embedded items required for other Work that is attached to, or supported by cast-in-place concrete. Use setting diagrams, templates and instructions provided under other Sections and other contracts for locating and setting. Refer also to Paragraph 1.01.B., Coordination, above.

3.04 CONCRETE AND PLACEMENT

- A. Only ready-mixed concrete shall be used. It shall be in accordance with ASTM C 94.

- B. Concrete Placement: Comply with ACI 304, placing concrete in a continuous operation within planned joints or sections. Do not begin placement until work of other trades affecting concrete is completed.
- C. Consolidate placed concrete using mechanical vibrating equipment with hand rodding and tamping, so that concrete is worked around reinforcement and other embedded items and into all parts of forms.
- D. Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placement, and curing.
 - 1. In cold weather comply with ACI 306
 - 2. In hot weather comply with ACI 305

3.05 QUALITY OF CONCRETE WORK

- A. Make all concrete solid, compact and smooth, and free of laitance, cracks and cold joints.
- B. Cut out and properly replace to the extent ordered by the ENGINEER, or repair to the satisfaction of the ENGINEER, surfaces which contain cracks or voids, are unduly rough, or are in any way defective. Patches or plastering will not be acceptable.
- C. Repair, removal, and replacement of defective concrete as ordered by the ENGINEER shall be at no additional cost to the OWNER.

3.06 CURING

- A. Begin initial curing after placing and finishing concrete as soon as free water has disappeared from exposed surfaces. Where possible, keep continuously moist for not less than 72 hours. Continue curing with the use of moisture-retaining cover or membrane-forming curing compound. Cure formed surfaces by moist curing until forms are removed. Provide protection as required to prevent damage to exposed concrete surfaces.
- B. Forms on structural walls shall be left in place for a minimum of 72 hours unless a cylinder break indicates the strength of the concrete has reached 75 percent of design strength.
- C. Forms on structural floors and ceiling shall be left in place until a cylinder break indicates the strength of the concrete has reached 85 percent of design strength.

3.07 FINISHES

- A. After placing concrete slabs, do not work the surface further until ready for floating. Begin floating when the surface water has disappeared or when the concrete has stiffened

sufficiently. Check and level the surface plane to a tolerance not exceeding 3 inch in 10 feet when tested with a 10 foot straightedge placed on the surface at not less than 2 different angles. Cut down high spots and fill all low spots. Uniformly slope surfaces to drains. Immediately after leveling, refloat the surface to a uniform, smooth, granular texture.

- B. After floating, begin the first trowel finish operation using a trowel. Begin final troweling when the surface produces a ringing sound as the trowel is moved over the surface.
- C. Consolidate the concrete surface with the final hand troweling operation. Finish shall be free of trowel marks, uniform in texture and appearance, and with a surface plane tolerance not exceeding 1/8 inch in 10 feet when tested with a 10 foot straight edge. Grind smooth surface defects.
- D. Use trowel finish for the following: Interior exposed slabs unless otherwise shown or specified
- E. Apply non-slip broom finish to exterior concrete slab and elsewhere as shown on the Drawings.

3.08 GROUT PLACEMENT

- A. Mix in accordance with the procedures recommended by the manufacturer. Do not vary the ratio of components or add solvent to change the consistency of the grout mix. Do not overmix. Mix full batches only to maintain proper proportions of resin, hardener and aggregate.
- B. Monitor ambient weather conditions and contact the grout manufacturer for special placement procedures to be used for temperatures below 60 or above 90°F.
- C. Place grout into the designated areas in a manner which will avoid trapping air. Placement methods shall ensure the filling of all spaces and provide full contact between the grout and adjoining surfaces. Provide grout holes as necessary.
- D. Minimize "shoulder" length (extension of grout horizontally beyond base plate). In no case shall the shoulder length of the grout be greater than the grout thickness.
- E. Finish grout by puddling to cover all aggregate and provide a smooth finish. Break bubbles and smooth the top surface of the grout in conformity with the manufacturer's recommendations.
- F. Epoxy grouts are self curing and do not require the application of water. Maintain the formed grout within its recommended placement temperature range for at least 24 hours after placing, or longer if recommended by the manufacturer.

(End of Section)

SECTION 04 21 13
BRICK MASONRY

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. The Contractor shall furnish all labor, materials, equipment, and incidentals necessary to complete all brickwork, as shown the typical details and/or specified herein. This shall include, but not be limited to, brick manhole repair in manholes, adjusting grade for manhole frames and covers, and any miscellaneous uses, as directed by the Owner's Representative.
- B. The Contractor will only be allowed to use brick manholes when constructing a "dog house" type manhole, or when otherwise directed by the Owner's Representative.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Cement shall be domestic Portland cement, conforming to ASTM Designation C-150, Type II.
- B. Lime for mortar shall be hydrated, conforming to ASTM Designation C-207, Type S.
- C. Sand shall be clean, sharp, durable particles, preferable siliceous, and with not more than five percent (5%) in volume of loam, mica, clay, or other harmful substances, and free from injurious amounts of organic matter. The sand shall be graded from fine to coarse so that, when tested dry, it will conform to the limits of ASTM Specification for Aggregate for Masonry Mortar C-144. Sand for grout shall be such size that when dry, one-hundred percent (100%) shall pass a No. 200 sieve, and not over five percent (5%) by weight shall be retained on a No. 100 sieve.
- D. Water shall be free from injurious amounts of oils, acids, alkalis, or organic matter, and shall be clean and fresh.
- E. Brick shall be sound, hard, uniformly burned, regular, of standard brick size, uniform in shape and size, of compact texture, and satisfactory to the Owner's Representative. Bricks shall comply with the AASHTO M 91, Manhole Brick, Grade MM.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Mortar shall consist of 1 part cement, 3 parts sand, and hydrated lime, not to exceed ten percent (10%) of the weight of cement used. It shall be mixed only in such quantity as may be required for immediate use, and shall be used before the initial set has taken place. Mortar shall not be retained for more than 1-1/2 hours, and shall be constantly worked over with hoe or shovel until used. Prepared mortar shall not be allowed to stand in beds during the noon hour, or overnight. It must be mixed in the exact proportions specified herein. Approximate measurement of quantities will not be permitted.
- B. Antifreeze mixtures will not be allowed in the mortar.
- C. Bricks shall be cleaned and thoroughly wet shortly before they are put into the work, and each brick shall be laid in a full bed and joint of mortar, without requiring subsequent grouting, flushing, or filling. Joints between bricks shall not exceed 1/2 inch and shall be pointed. Bricks forming the shaped inverts in manholes shall be laid on edge, as shown on the details.

3.02 TESTING

- A. Brick manholes shall be visually inspected by the Owner's Representative. All leaks discovered by the inspection shall be repaired by the Contractor at no additional cost to the Owner.

(End of Section)

SECTION 22 13 43

UNDERGROUND FIBERGLASS REINFORCED WET WELL AND DRY PIT

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. The Contractor shall provide all labor, materials, equipment, and incidental items necessary to furnish a FRP Wet Well and/or Dry Pit. Unless otherwise indicated, the terminology used in this specification shall be in accordance with the definitions in the American Society for Testing and Materials (ASTM) designation D883 – Standard Terminology Related to Plastics. Wet Wells shall be one-piece units, manufactured to meet or exceed all specifications of ASTM D3753.

1.02 GOVERNING STANDARDS, AS APPLICABLE: ASTM D883: Standard Terminology Related to Plastics

- A. ASTM D3753: Standard Specification for Glass-Fiber-Reinforced Polyester Manholes and Wet Wells

1.03 LOADING CONDITIONS

- A. Wet Well and/or Dry Pit FRP wall laminate must be designed to withstand wall collapse or buckling, based on the following assumed physical parameters. The Wet Well and/or Dry Pit shall be designed and constructed to withstand or exceed wall collapse and buckling, based upon three (3) times the assumed loading conditions listed below:
 - 1. Unit weight of water is 62.4 lbs. per cubic foot.
 - 2. Saturated soil unit weight of 120 lbs. per cubic foot.
 - 3. Modulus of soil reaction of 700 lbs. per square foot.
- B. Wet Well and/or Dry Pit, when installed according to Wet Well manufacturer's current Wet Well Installation Instruction and Operating Guidelines, shall support accessory equipment such as submersible pumps, rails, valves, and ladders.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. Wet Well and Dry Pit shall be manufactured with 100% premium resin and glass-fiber reinforcement. No sand fillers.
- B. Wet Well and Dry Pit shall be tested by the manufacturer to a Barcol Hardness of at least 80% of the resin manufacturer's specific hardness for fully cured resin.
- C. The following pertinent average material properties shall be used in analysis for fiberglass composite in the Wet Well or Dry Pit:

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- | | |
|-------------------------|-------------|
| 1. Tensile Modulus | 900,000 psi |
| 2. Flexural Modulus | 900,000 psi |
| 3. Tensile Strength | 10,000 psi |
| 4. Compressive Strength | 20,000 psi |
| 5. Poisson's Ratio | 0.33 |

- D. All 6-foot diameter and larger Wet Wells and Dry Pits shall be constructed using an integral constructed trapezoidal rib for superior strength and support of the well and/or pit wall.

2.02 CALCULATIONS

- A. The manufacturer shall provide, if requested by the owner, or Project Manager/Engineer, anti-flotation calculations for the designed Wet Well and/or Dry Pit, based on specifics of ground water depth and soil properties for the specific site location, as supplied by the Owner's Representative.

2.03 WARRANTY

- A. The warranty shall be manufacturer's limited warranty for Underground Wet Well at the time of shipment.

PART 3 – EXECUTION

(End of Section)

SECTION 31 23 00
EARTH EXCAVATION AND BACKFILL IN TRENCHES

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. This Section includes, except as elsewhere provided, trenching for installation of pipelines and appurtenances, including drainage, filling, backfilling, and disposal of surplus material, and restoration of trench surfaces.
- B. Excavation shall extend to the width and depth shown on typical details, or as specified; or where not specified, Contractor shall confine his excavation to the least width practicable, and shall provide suitable room for installing pipe, structures, and appurtenances, while meeting the minimum clearance on both sides of the pipe per the standards.
- C. The Contractor shall furnish and place all sheeting, bracing, and supports, and shall remove from the site all materials which are unsuitable for backfill, or which the Project Manager may deem unsuitable for backfilling. The bottom of the excavation shall be firm, dry, and in all respects, acceptable.
- D. In case the excavation for any pipeline is carried below the required depth, the Contractor shall fill the bottom of the excavation up to grade with limestone, in a manner acceptable to the Project Manager, without compensation for either the excavation or the backfilling.

PART 2 – PRODUCTS

2.01 BACKFILL MATERIALS

- A. River sand shall be used as backfill material for all trenches and shall be a good quality "Mississippi River Sand", free of roots, shells, or any other foreign matter, AASHTO Classification A-4 material, or better having a maximum liquid limit of 25 and a maximum plasticity index of 6. Backfill material shall have a group index number not to exceed 6. Pumped River Sand shall be thoroughly compacted in layers not exceeding twenty-four (24) inches in thickness by flooding, or other approved device to a density not less than ninety-seven percent (97%) of the maximum density.

2.02 BEDDING MATERIALS

- A. Bedding material for pipe Bedding, Haunching, and Initial Backfill shall be crushed limestone, crushed Portland cement concrete, or as directed by the Project Manager. Bedding material shall be installed and compacted as required in the typical details. Haunching and Initial Backfill area must be compacted to a minimum of:

#610 Stone – 97% of Standard Proctor (ASTM D698)

57 Stone – 75% of Relative Density (ASTM D4253 & ASTM D4254)

- B. Crushed Limestone and Recycled Portland Cement Concrete shall be either compacted #57 or #610 (as specified herein) depending on the trench type per the typical detail, or as otherwise indicated. When # 57 mix is used, the crushed limestone and recycled Portland cement concrete shall be wrapped with filter fabric (“Mirafi 500X” or “Propex Geotext 200ST” with minimum 18" overlap).
- C. If required and proper compaction of required stone is not practical to achieve in the area of Bedding, Haunching, and Initial Backfill of Sewer Service Connections, Sand may be used (by flooding) in the place of the required crushed limestone and recycled Portland cement concrete immediately beneath the pipe and above the required foundation lumber and stone. It is recommended that the crushed limestone and recycled Portland cement concrete used for sewer service connections’ foundation to be # 610 stone which does not require to be wrapped with filter fabric. The intention of this variance is to allow the contractor to achieve proper compaction around Service Connections’ pipes, fittings, couplings, etc. The contractor shall support all service connection components during placement and compaction of pipe backfill. This variance shall only apply to the Service Connections and not the Mains.
- D. All foundation lumber (i.e., planking, sills, and stringers in the trench bottom) shall be suitable for the purpose. Installation of foundation lumber and piling shall be in accordance with the typical details. Only hardwood such as Oak shall be allowed for foundation lumber.

PART 3 – EXECUTION

3.01 EXCAVATION

- A. All general excavation for the removal of subsurface materials associated with the required work shall be performed in accordance with the latest edition of the LADOTD standard specification Section 203.
- B. Excavation shall be open cuts with vertical sides, unless in special cases the Project Manager permits sloping sides.
- C. In case the excavation for any pipeline is carried below the required depth, the Contractor shall fill the bottom of the excavation up to grade with reef shell or limestone, in a manner acceptable to the Project Manager, without compensation for either the excavation or the backfilling.
- D. All material excavated shall be placed so as to minimize interference with public travel and to permit proper access for inspection of the work.

- E. Material excavated, as well as stockpiled backfill material, shall not be left in the street overnight.

3.02 DISPOSAL OF MATERIAL

- A. Excavated material shall be stacked, without excessive surcharge, on the trench bank, and without obstructing free access to hydrants and valves. Inconvenience to traffic and abuts (i.e., homes, driveways, etc.) shall be avoided as much as possible. Grade excavated top perimeter to prevent surface water runoff and hand trim excavation to leave free of loose matter.
- B. All excavated material shall be disposed of off-site by the Contractor at his expense. Disposal of material shall be in accordance with the latest LADOTD standard specification Section 202.02.
- C. Should conditions make it impracticable or unsafe to stack material adjacent to the trench, the materials shall be hauled and stored at a location provided by the Contractor. When required, it shall be re-handled and used in backfilling the trench.

3.03 EXCAVATION OF UNSUITABLE MATERIALS

- A. If approved by the Project Manager and/or Owner, the Contractor may be requested to remove any unsuitable material encountered beneath the depth of the material to be excavated to perform the necessary work. The excavated section of unsuitable material will be backfilled with granular material as specified herein as needed up to depth required to perform the restoration work. The equipment, labor, materials, and other incidental costs associated with additional backfill material installation shall be paid under the respective bid item and shall also include all costs associated with the excavation of the material.
- B. When contaminated soils or underground tanks are encountered, handling shall be in accordance with the latest LADOTD standard specification Section 202.

3.04 EXCAVATION TO REMOVE STUMPS, ROOTS, LOGS

- A. Stumps, roots, and logs, which are encountered within the trench area, shall be cut to a depth of one (1) foot below the bottom of the trench at no additional cost. The Contractor shall fill this excavated space with sand or other approved materials at no direct pay.
- B. When so required by the Project Manager, the Contractor shall probe one (1) foot below the established bottom of the trench. If any stump, roots, logs, etc., are discovered by this probing, the Contractor shall cut them out just as if they had been visible in the trench at no additional cost.
- C. Blasting will not be allowed for the removal of stumps.

3.05 SHEETING AND BRACING

- A. Protection of the excavation against caving or settling of the banks shall be the sole responsibility of the Contractor. He shall protect the sides of his excavation by sheeting and bracing, as may be necessary. No actions or instructions by the Project Manager shall be regarded as the responsibility for security of the trench or the surrounding areas. The full responsibility remains with the Contractor. The Contractor shall furnish, put in place, and maintain sheeting and bracing required to support the sides of the excavation and prevent loss of ground, which could damage or delay the work, or endanger adjacent structures or vehicular traffic. If the Project Manager is of the opinion that at any point sufficient or proper supports have not been provided, he may order additional supports to be placed, at the expense of the Contractor. Compliance with such order shall not relieve the Contractor of his responsibility for the sufficiency of such supports. Care shall be taken to prevent voids outside of the sheeting, but if voids are formed, they shall be immediately filled and rammed.
- B. Sheeting shall be used for certain trench conditions, as shown on the typical details.
1. The Contractor shall leave in place (to be embedded in the backfill of the trench), all wood sheeting, bracing, and other related items as shown on the typical details or other plans, or which the Project Manager may direct him in writing to leave in place, at any time during the progress of the work. The Project Manager may direct that sheeting and bracing in the trench be cut off at a specified elevation, other the 3' minimum depth per the typical detail, after backfilling and tamping has reached this level. All rangers and braces above this level must be removed.
 2. All sheeting and bracing not left in place shall be carefully removed in such a manner as not to endanger the construction of other structures, utilities, or property, whether public or private.
 3. The right of the Project Manager to order sheeting and bracing left in place shall not be construed as creating any obligation on his part to issue such orders, and his failure to exercise his right to do so shall not relieve the Contractor from liability for damages to persons or property occurring from or upon the work occasioned by negligence or otherwise, growing out of a failure on the part of the Contractor to leave in place in the trench sufficient sheeting and bracing to prevent any caving or moving of the ground adjacent to the sides of the trench.
 4. The contractor shall receive no payment for any extra time used for sheeting, bracing, and other related items, which has not been ordered by the Project Manager in writing during the progress of the work. The Contractor shall receive no payment for such time, which was used for the convenience of the Contractor.
 5. If additional sheeting and bracing is required by the Project Manager, measurement and

payment shall be as specified in the Measurement and Payment section.

- C. Only hardwood such as Oak shall be allowed for timber sheeting, bracing and foundation lumber.

3.06 TEST PITS

- A. Test pits for the purpose of locating underground utilities or structures in advance of the construction may be excavated by the Contractor. Test pits shall be backfilled immediately after the desired information has been obtained. The backfilled surface shall be restored and maintained in a manner satisfactory to the Project Manager. The cost of test pits shall be at no direct pay and included in the appropriate bid item.

3.07 DRAINAGE

- A. The Contractor shall furnish all materials and equipment, and perform all incidental work required to install and maintain the drainage system he proposed for handling ground water or surface water encountered. He shall assume all responsibility for the adequacy of the methods, materials, and equipment employed. Construction shall not begin until the Project Manager is assured that the proposed method will be satisfactory. The requirements for a stable sub-grade are indicated above. The Contractor must alter his drainage methods, if in the opinion of the Project Manager, the trench bottom is unsatisfactory.
- B. The Contractor shall provide pumping equipment and devices to properly remove and dispose of all water entering trenches and excavations. The grade shall be maintained acceptably dry until the structures to be built therein are completed. All drainage shall be performed without damage to the trench, pavements, pipes, electrical conduits, or other utilities.
- C. Pipe and masonry shall not be laid in water or submerged within 24 hours after being placed. Water shall not flow over new masonry within four days after placement.
- D. In no event shall water rise to cause unbalanced pressure on structures, until the concrete or mortar has set for at least 24 hours. The Contractor shall prevent flotation of the pipe by promptly placing backfill.
- E. Where other methods of handling water prove inadequate, the Contractor shall furnish, install, operate, and remove proper well point facilities.

3.08 BACKFILLING

- A. As soon as practical, after the pipe had been laid, jointed, and tested (if required), backfilling shall begin, and thereafter be completed expeditiously. Bedding shall conform to the details on the standard drawings. When laying pipe, the groove for the pipe and bell hole must be accurately shaped, and the backfill must be closely packed under and

around the pipe.

- B. After the required bedding has been placed, as shown on the standard drawings, backfill material free from stones, pieces of lumber, and other foreign material shall be hand placed and hand tamped to a depth over the top of the pipe, as also shown on the standard drawings.
- C. Wherever a grassed surface exists prior to excavation, it shall be removed, conserved, and replaced to the full original depth, as part of the work under the pipe items. In some areas, it may be necessary to remove excess materials during the clean-up process, so that the ground may be restored to its original level and condition.
- D. When pipes are laid in streets, the remainder of that trench above the bedding and up to the bottom of the specified shall be backfilled as shown on the standard drawings in layers not to exceed one foot (1'), and thoroughly compacted by flooding.
- E. The pipe and bedding material for all mainlines or feeder lines shall be completely encapsulated with a geo-textile fabric (Mirafi 500X, Propex Geotext 200ST, or approved equal with minimum 18" overlap) in all locations (under pavement/sidewalk, or grass cover).
- F. Backfill around manholes shall be compacted by flooding. All backfill shall be compacted, especially under and over pipes connected to the manholes.
- G. Paving shall not be placed in backfill.
- H. All road surfaces adjacent to backfilling operations shall be broom swept and hose-cleaned immediately after backfilling. Dust control measures shall be employed at all times.

(End of Section)

SECTION 31 41 16
SHEETING, SHORING, AND BRACING

PART 1 – GENERAL

1.01 DESCRIPTION

- A. This section shall include supplying materials, services, and labor necessary to provide sheeting, shoring, and bracing or supports, as required, to provide a safe working condition for Contractor's personnel, and to provide for protection of utilities, buildings, and structures. It shall be the sole responsibility of the Contractor to comply with these requirements.

1.02 SUBMITTALS

- A. Prior to beginning sheeting and shoring operations, and as a part of the excavation plan, the Contractor shall submit in writing to the Project Manager his proposed plan to comply with the requirements of this Section. No excavation work shall be allowed to commence until the Contractor has fulfilled this requirement.
- B.

1.03 SAFETY REQUIREMENTS

- A. All sheeting, shoring, and bracing of excavations shall conform to requirements necessary to comply with OSHA regulations, local codes, and other authorities having jurisdiction.

PART 2 – PRODUCTS

PART 3 – EXECUTION (Not Used)

3.01 PERFORMANCE

- A. The planning and installation of all sheeting, shoring, bracing, and sheet piling shall be accomplished in such a manner so as to maintain the required trench or excavated cross section, and to maintain the undisturbed state of the soils adjacent to the trench and below the excavated bottom. All trenches and structural excavations shall be properly sheeted, shored, and braced. Steel sheet piling shall be a continuous interlock design.
- B. The use of horizontal strutting below the barrel of a pipe or structure by the use of a pipe as support for trench bracing will not be permitted.
- C. Wood sheeting shall be left in place and the upper part of the sheeting shall be cut off three (3) feet minimum below the finished ground surface after backfilling. All bracing above this level shall also be removed. Lower bracing shall be left in-place.
- D. Steel sheeting, when used, may be removed upon completion of backfill operations.

(End of Section)

SECTION 32 10 00
ROADWAYS, CURB AND GUTTER, SIDEWALKS AND DRIVEWAYS

PART 1 – GENERAL

1.01 DESCRIPTION

- A. All work performed under this Section shall be in accordance with the appropriate section of the Louisiana Standard Specifications for Roads and Bridges (LADOTD) (2026 Edition or latest revisions), and/or the latest typical details and specifications, unless modified herein or directed in the field. In addition, all work shall comply with the latest American Disability Act (ADA) requirements, as well as any other applicable federal, state, or local code requirements.
- B. This section shall include the removal and restoration of all paved and unpaved roadways, curbs, gutters, drives, walks, handicap curb ramps, and other incidental paving areas encountered on the project, and/or damaged by the Contractor during construction. Any damage resulting from the Contractor operations shall be restored as specified herein at the expense of the Contractor, including any associated testing costs, to the satisfaction of the Project Manager and/or Owner.
- C. The work associated the removal and restoration of roadways, curbs, gutters, drives, sidewalks, handicap ramps, and other incidental paved and unpaved surfaces shall be furnished and installed in conformity with the lines, grades, thicknesses, and typical cross sections shown on the plans and other details, if provided. In the event plans and details are not available, prior to construction in an area, the Contractor shall adequately determine and document the existing centerline, edge of road, curb, and other pavement and surrounding area elevations to establish the pre-construction conditions. The restored pavement sections and other areas of work shall be installed to match the existing adjacent pavement or surrounding area grade elevations & slopes. The Contractor is responsible to ensure positive drainage. If necessary the Contractor shall coordinate with the Project Manager to establish finished elevations prior to construction.
- D. Under no circumstances shall the contractor stockpile removed paving or other debris at the site, without prior approval by the Owner. All debris and materials are to be removed from the site by the end of the workday and properly disposed of. The Contractor is not allowed to stockpile overnight any new roadway bedding or other materials within the limits of a roadway. All material storage and equipment staging areas must be pre-approved by the Parish and shall be maintained on a regular basis throughout the construction period.
- E. Unless otherwise directed and approved by the Director of Utilities, the kind of pavement to be constructed in replacement work shall correspond with the kind removed from the area, as shown on the plans (if provided), or as specified herein. The respective kind of paving (asphaltic concrete or Portland cement) shall be placed, shaped, and finished to establish grade and cross section by practicable means, which will result in a dense, uniform-textured pavement. The abutting edges of existing pavement to remain shall be trimmed of all loose fragments and shall be painted with asphalt or thoroughly moistened with water, as appropriate, to provide good bond between the old and new pavement. All final paving surfaces shall be “finished” in accordance with the latest Louisiana Standard Specifications for Roads and Bridges, or otherwise specified.

- F. All manholes and other structures within a paved area shall be isolated (boxed out) by means of an approved circular, square, or rectangular section using flexible joint material. Manholes in sidewalk areas will be formed so that an expansion joint is on both sides of the manhole. New sewer manholes shall not be installed within the paving limits of a roadway, unless approved by the Director of Utilities. All new manholes shall be located behind the curb within the roadway right-of-way.
- G. All traffic control measures and details shall be approved by the Director of Utilities. In addition, the Contractor shall be responsible for the proper and safe protection of the work area.

NOTICE: The Contractor is responsible for notifying both the Project Manager, resident inspector, testing lab, and the St. John Utilities Department at least 24 hours in advance of any placement of concrete or asphalt.

Refer to the latest typical details and other applicable referenced typical details and specifications.

1.02 SUBMITTALS

- A. The manufacturers data sheet of geotextile fabric along with representative sample, if requested, and a certification shall be submitted to and approved by Project Manager before installation.
 - 1. Proof of Compliance:
 - a. The Manufacturer's published catalog specifications data stating that the items are in compliance with applicable specifications will be acceptable as evidence of compliance.
 - 2. Manufacturer's Certifications:
 - a. Certificates of Compliance: the manufacturer shall prepare Certificates when the manufacturer's published data or drawings do not indicate conformance with other requirements of these specifications.
 - b. Certified Factory Test Reports: Certified factory test reports shall be submitted when the manufacturer performs routine factory tests normally performed by the manufacturer, including tests required by ASTM standards.

PART 2 – PRODUCTS

2.01 ROADWAY BASE MATERIALS

- A. Portland cement concrete roadway base material shall consist of AASHTO A-4 or better soils with a liquid limit (LL) of 30, plastic limit (PL) of 10. The sand base course shall be a

minimum of 12" in thickness with a maximum density of 95% of maximum density as determined by ASTM D698.

- B. Sand base material for pavement shall comply with Section 1003.02.01 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions). The sand base shall be placed in 1' maximum layers and to at least 95% relative density at optimum water content in accordance with ASTM D1557, or as indicated otherwise.
- C. Asphaltic concrete roadway base material shall be a minimum of 8" in thickness of cement-treated base with a plasticity index (PI) of less than 15, or an approved equal.
- D. The placement of the road base material shall be confined to the limits of the pavement removal. If, due to the construction operation, the adjacent base material is disturbed adversely, the Contractor shall remove and replace the material, as directed by the Project Manager in consultation with the Parish Utilities Department. This work shall be done at the expense of the Contractor, unless the disturbance is beyond the control of the Contractor.

2.02 GEOTEXTILE FABRIC AND GEOGRID

- A. Geotextile fabric for roadway base material shall be Class D per Table 1019-1 of Section 1019 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions), unless otherwise indicated. Installation of geotextile fabric shall be in strict accordance with manufacturers' instructions and requirements. All overlaps shall be a minimum of 2 (two) feet, except otherwise specified on plans.

2.03 BACKFILL MATERIAL

- A. Soil for backfill beneath required base materials and soil for dressing material shall be pumped river sand obtained from the Mississippi River, unless otherwise detailed or specified. Sand backfill material shall be an AASHTO Classification A-4 or better, having a Plasticity Index not to exceed "4", and a liquid limit not to exceed "25", and shall be free from trash, weeds, large lumps, humus, or any other deleterious matter.

2.04 ASPHALTIC CONCRETE PAVEMENT

- A. Asphalt concrete mixes shall be Level 1 for wearing and binder courses. An approved asphalt wearing course material can be used in place of a binder course. A binder course asphalt material cannot be substituted where a wearing course is required. All materials shall conform to the requirements of Sections 502, 503, 504, 505, 1002, and 1003 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest Revisions), or as amended herein.

2.05 PORTLAND CEMENT CONCRETE PAVEMENT

- A. All permanent concrete roadway pavement shall be Portland cement concrete shall have a minimum compressive strength of 4,000 psi, minimum 5% sack concrete or Class B, and shall be reinforced with Fiber reinforcement.

2.06 CURBS, GUTTERS, WALKS, DRIVES, INCIDENTAL PAVING & MISCELLANEOUS

- A. Materials for curbs and gutters shall be concrete and must comply with Section 707.02 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions). Concrete for curbs & gutters shall be Class B, attaining 4,000 psi compressive strength in 28 days, unless otherwise directed.
- B. Materials for walks, drives, and incidental paving shall and must comply with Subsection 706.02 of the Louisiana Standard Specifications for Roads and Bridges 2026 Edition and latest revisions). A minimum of 6" thick select material obtained from excavation, subject to the approval of the Project Manager, or granular backfill material shall be used as base material to meet finished grades at no direct pay.

PART 3 - EXECUTION

3.01 REMOVAL OF SURFACING

All paving removal & disposal work (including roads, curbs, gutters, drives, walks, and incidental shall be performed in accordance with latest edition of the LADOTD standard specification Section 202. Payment for removal & disposal of paving shall be considered incidental to the work and no additional cost to the Owner unless otherwise specified.

All asphaltic concrete surfaces shall be initially removed to a minimum distance of two (2') feet outside the limits of the utility trench and a minimum of eight (8') total, or to the approved construction limits for the work to be performed. All composite roadway sections shall be initially removed to a minimum distance of two (2) feet outside the limits of the utility trench and a minimum of eight (8') total, or to the approved construction limits for the work to be performed. If less than 2' from the edge of cut line to the edge of the roadway, remove all asphaltic concrete and/or composite roadway paving to the road edge and include in the pay width.

Concrete roadways panels will be removed from joint to joint or edge of pavement, unless otherwise specified or directed. Driveway, sidewalk, and other incidental paving shall be removed to the nearest joint scoring, or as otherwise specified or directed.

If the required work to be performed or site conditions warrant, any concrete roadways paving unable to be removed to the nearest joint shall be saw-cut utilizing a diamond bladed concrete cutting type saw to make a true straight line to a minimum depth of 2", or as otherwise indicated, along the entire limits of the affected area of removal unless other methods & saw depths are authorized by the Project Manager and approved by the Utilities Department.

Sidewalks, driveways, and other incidental concrete paving unable to be removed to the nearest joint shall be saw-cut full depth, unless otherwise directed or specified. If a joint does not exist at the property line or in close proximity thereof the Contractor shall make a full depth saw-cut along the property line.

For asphaltic concrete paving and composite roadways, remove the existing surfacing and base materials by saw-cutting. Saw-cuts shall be for the full depth of the pavement along the perimeter of the pavement to be removed. Saw-cuts shall be made with a diamond bladed concrete saw for the full depth of the pavement repair section.

There will be no direct payment for pavement saw-cutting, unless otherwise specified. Any overcuts shall be properly repaired at the expense of the Contractor utilizing a method approved by the Project Manager and Owner.

There will be no direct payment for the removal of curb which is attached to and removed with the roadway surface.

The Contractor is responsible for repairing all damage to adjoining pavement or other assets resulting from his operations.

3.02 GENERAL EXCAVATION

All general excavation for the removal of subsurface materials associated with the required work shall be performed in accordance with the latest edition of the LADOTD standard specification Section 203. Payment for general excavation to provide the required section area (length & width) to the depth required for the installation of all associated base & backfill materials associated with the restoration of paved surfaces, following any additional utility rehabilitation work below. Refer to Section 31 23 00 regarding work associated with the excavation and backfill of materials in utility trenches.

All costs associated with the excavation & disposal of excess materials for the restoration of paved surfaces shall be considered incidental to the work and no additional cost to the Owner, unless otherwise specified. All associated costs shall be included in the cost for the other respective bid items.

Disposal of material shall be in accordance with the latest LADOTD standard specification Section 202.02.

3.03 ROADWAY BASE

- A. This work consists of furnishing and placing the roadway base, as per the latest typical details or other provided project plans, and in accordance with the applicable sections of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition or latest revisions), unless otherwise specified.

- B. Density tests will be taken on the roadway base materials as specified herein, or as directed by the Project Manager and/or Owner. The Contractor shall not be allowed to restore the roadway until the road base material in the trench area meets, or exceeds the following:

1. Density Requirements (Standard Proctor)

- a. Base Course - 95%
- b. Subbase - 95%

- C. Prior to installation of the roadway base the contractor shall scarify, shape, and compact the existing roadbed to a minimum depth of 6" for its full width and the material spread and brought to a line and grade as needed to perform the pavement work. All subgrade material that will not satisfactorily compact shall be removed to a depth where suitable material is reached, or 6" minimum, and replaced with A-4 granular material compacted to 95% standard proctor. All work shall be performed in accordance with the provisions of Section 306 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions), unless otherwise noted in these specifications. Construction for this task shall comply with Section 306.02 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions). Until the final pavement is installed, the Contractor shall maintain the compacted roadbed in accordance with Section 306.03 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions).

- D. For asphaltic concrete paved streets removed to perform utility and other subsurface repairs, the restored sections of roadways shall have a layer of 8" minimum compacted cement-treated base on compacted subgrade, or as otherwise approved. Geotextile fabric shall be installed beneath the layer of base material and wrapped up the sides and overlapped a minimum of 2' minimum over the layer. A layer of geogrid shall be installed beneath the base and above the compacted subgrade.

- E. For sections of Portland cement concrete paved streets and composite roadways removed to perform utility and other subsurface repairs, the restored sections of PCCP shall have a layer of 12" minimum compacted granular material (sand) base on top of compacted subgrade, or as otherwise indicated. Geotextile fabric shall be installed beneath the layer of base material and wrapped up sides and overlapped 2' minimum over the layer.

3.04 GEOTEXTILE FABRIC AND GEOGRID

- A. The Contractor shall install a prior approved Geogrid over the geotextile fabric for roadway base materials in full compliance with manufacturer's recommendations as indicated on the latest typical details. Use only material that has been approved by the Director of Utilities.

3.05 ASPHALTIC CONCRETE PAVEMENT

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- A. The work under this section shall conform to Section 502 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions), unless otherwise specified. Asphaltic concrete pavement includes the furnishing of all labor, materials, and equipment and performance of all asphalt work required for the construction of roadway.
- B. Sections of asphaltic concrete roadway removed to perform utility and other subsurface repairs shall be restored to match the thickness of the existing adjacent pavement per the latest typical details, unless otherwise indicated. Under no circumstances shall the restored asphaltic concrete section be less than 12" thick total. Any type of asphalt concrete mixture listed in the latest LADOTD standard specification Section 502 can be used for asphalt concrete patching other than 1/2-inch nominal maximum size mixtures. Spread, finish, and compact the restored asphaltic concrete paving area leaving a surface smooth and slightly above the edge of existing pavement.
- C. Unless otherwise directed by the Project Manager or Director of Utilities, for sections of asphaltic concrete paving removed to perform utility and other subsurface repairs, no less than five (5) days following the restoration of the asphalt pavement area the Contractor shall mill the top layer of the asphaltic concrete patch over the restored section a minimum of 2" minimum plus 4' minimum (or to edge of pavement) in all directions and install a new asphaltic concrete wearing course surface.
- D. For sections of composite roadways removed to perform utility and other subsurface repairs, the Contractor shall mill the top layer of asphaltic concrete over the area to be restored a minimum of 2" in depth plus 4' minimum (or to edge of pavement) in all directions and install a new asphaltic concrete wearing course surface after the underlying concrete and base materials have been restored as required. The new asphaltic concrete wearing surface for composite roadways shall not be installed until the compressive strength of the underlying concrete layer has been achieved and the restored concrete accepted.
- E. The milling asphalt pavement work shall be performed in accordance with all requirements of the latest LADOTD standard specification Section 509. The cost shall be paid under the respective bid item. If a specific bid item is not included all costs shall be included in the asphaltic concrete bid item.
- F. Asphalt shall be batched, placed, and tested in accordance with the requirements of Sections 502 and 503 of the Louisiana Standard Specifications for Roads and Bridges, (2026 Edition and latest revisions), or as amended herein. The asphalt mix formula shall be submitted to the Project Manager and Testing Laboratory for approval prior to construction.
- G. Equipment shall meet the requirements of the latest LADOTD standard specification Section 503.

- H. Asphalt tack coat shall comply with the requirements of the latest LADOTD standard specification Section 504. Prime coat shall comply with the requirements of the latest LADOTD standard specification Section 505.
- I. Asphalt courses shall be laid to the established grades and after application of prime coat to the compacted base course. Clean abutting edges or contact surfaces of pavement and apply a uniform layer of approved asphalt tack coat to the existing pavement before placement of asphalt concrete.
- J. Dimensional, density, and material requirements and associated pay adjustments shall be as specified in the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions).
- K. If an asphalt concrete pavement patching area has compacted or settled below the existing grade of the adjacent roadway, the contractor shall place and compact additional asphalt until the patched area is level with the existing grade of the surrounding roadway.

3.06 PORTLAND CEMENT CONCRETE PAVEMENT

- A. All construction under this section shall conform to Section 601 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions), or as amended herein, and per typical details.
- B. New Portland cement concrete roadways shall be a minimum of 6" thick for local streets & a minimum of 8" thick for collector & arterial roads. Sections of Portland cement concrete roadway removed to perform utility and other subsurface repairs shall be restored with a Fiber reinforced Portland cement concrete section. The restored section of PCCP roadway shall be the greater of 6" thick for local streets & 8" for collector & arterial roads, or equal the thickness of the existing pavement, per the latest typical details unless otherwise indicated.
- C. Composite roadway sections removed to perform utility and other subsurface repairs shall be restored with an asphaltic concrete wearing course on top of a 7" minimum Fiber reinforced Portland cement concrete layer in accordance with the latest typical details. Composite roadways shall have a top asphaltic wearing surface in accordance with the latest Parish standard details and the Asphaltic Concrete Pavement section herein.
- D. The excavated sections for utility repair trenches shall be scarified, compacted, and backfilled as specified elsewhere in these specifications to the required level prior to the installation of the base materials and permanent paving.
- E. Materials shall be in accordance with the requirements of Section 601 and Section 901 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions). Concrete shall be Class B, attaining 4,000 psi compressive strength in twenty-eight days. The pavement shall not be opened to traffic until a compressive strength of

4,000 psi is attained and in no case shall the pavement be opened to traffic within a twenty-one (21) day period after the concrete has been placed unless approved by the Parish engineer or if super plasticizer is used. An additional testing performed at the request of the Contractor

- F. Joints for the paving shall be in accordance with the typical details. All joints in roadway surface shall be cleaned prior to the installation of joint sealers. Use polyurethane polymer joint sealers in accordance with section 1005.02 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions).
- G. The following items shall be submitted for approval prior to construction:
 - 1. Concrete Mix Design
 - 2. Technical data on joint material
- H. Portland Cement Concrete for roadway pavement and curbs shall have a maximum slump of 5-inches. The use of Fly Ash in the mix will not be permissible.
- I. In lieu of a profilograph, the Contractor shall furnish a 10-foot metal straight edge to test transverse cross slope and longitudinal slopes and grades. Any bump which is more than $\frac{1}{4}$ inch in 10 feet transverse or longitudinal) when tested with the 10-foot metal straight edge shall be considered a deficiency and shall require correction in accordance with the Section 601 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions),
- J. The final roadway surface shall be finished with a broom or brush in accordance with the latest typical details or otherwise directed.
- K. If the final concrete roadway pavement section has compacted or settled or has been damaged as a result of the contractor's operations, the contractor shall remove any compromised panels from joint to joint, inclusive of the base materials, and replace the same to the final finished grade of the roadway in accordance with the specifications.

3.07 TRAFFIC MAINTENANCE SURFACING

- A. Until permanent roadway and other pavement surfacing is restored, temporary aggregate traffic maintenance surfacing shall be satisfactorily placed, shaped, compacted, and maintained by the Contractor. The work associated with aggregate traffic maintenance surfacing for the maintenance of vehicular and pedestrian traffic shall be performed in accordance with the provisions of Section 402 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions), unless otherwise specified.
- B. Temporary aggregate surfacing (610 crushed limestone or as otherwise approved) shall be furnished to provide temporary vehicular and pedestrian traffic access over removed paved surface sections. Temporary traffic maintenance aggregate located within the roadway limits

shall be the greater of the removed roadway pavement section thickness or 6" thick minimum. Temporary aggregate surfacing outside the roadway limits for parking areas, drives, other and incidental concrete paving sections shall be a minimum of 6" thick, or as otherwise directed. For sidewalks, a minimum of 4" thick of temporary aggregate surface can be placed, unless otherwise indicated or directed.

- C. The aggregate used for traffic maintenance surfacing shall be measured at the point of delivery in accordance with the applicable pay item. Aggregate materials shall be delivered on site in approved hauling vehicles in accordance with sub-section 109.01 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and its latest revisions). The Contractor shall maintain all corresponding haul tickets and submit the same with pay requests or upon request.
- D. In some instances, such as at major roadway intersections and critical locations, a greater thickness may be ordered for temporary surfacing locations.
- E. The excavated sections for utility repair trenches and locations with required structure (i.e., manholes, etc.) rehabilitation work, and/or any other required work, shall be backfilled as specified elsewhere in these specifications to the required level prior to the installation of the permanent paving and any required base materials. Any excess material required to be removed to facilitate the permanent paving restoration shall be removed, transported, and disposed off-site at no direct payment.
- F. The grade of the backfill on which the temporary aggregate surfacing is to be placed shall be such as to provide for the installation of the full thickness of temporary surfacing specified. The temporary aggregate surface shall be placed, rolled/compacted, maintained, and removed and disposed of by the contractor. Prior to placing any temporary surfacing, the contractor shall level and compact the backfill on which the surfacing is to be placed. All temporary aggregate surfacing shall be maintained, filled, and compacted by the end of the day's operations at no additional pay to maintain a safe, passable vehicular and/or pedestrian travel way. The contractor is responsible for ensuring positive drainage at all temporary surfacing locations.
- G. The permanent paving restoration shall be furnished and installed approximately 30 calendar days after the initial paving removal and completion of other subsurface work, unless due to unforeseen circumstances at no fault of the Contractor's actions. The permanent paving for removed paved areas shall be performed using the required pavement type and to the minimum required thickness, or to match the pre-existing thickness if greater, in accordance with the latest applicable standards, unless otherwise specified or directed by the Project Manager and/or Owner. All base and subsurface materials shall be properly prepared and compacted as required prior to installation of the final permanent paving.
- H. Unless otherwise directed, previously placed temporary aggregate surface material removed to facilitate construction activities shall be stockpiled in the immediate area and reused

for temporary ramps and surfacing as many times as is practical, at “No Direct Pay”. New aggregate surfacing material shall be utilized only with prior approval.

- I. When temporary ramps and surfacing is no longer necessary for maintenance of traffic, the contractor shall remove the material from the project and properly dispose of it in accordance with latest edition of the LADOTD standard specification Section 202 at “No Direct Pay”. This material shall not be used in any other portion of the project without the expressed, written consent.
- J. Refer to the other appropriate specification sections for the permanent restoration of removed concrete, composite, and asphaltic concrete roadway pavements and the permanent paving for drives, walks, handicap curb ramps, incidental paving, and other miscellaneous surfaces.
- K. Drives and access points to residences and businesses outside of roadways in the immediate construction area by way of temporary aggregate ramps and aggregate surfacing shall be established at the end of each workday. Temporary aggregate surfacing shall also be provided by the end of each workday for removed sidewalk sections. No disturbed paved areas shall remain open over a weekend or holiday period. No residential or business properties shall be left inaccessible overnight. If necessary during construction in an area the contractor shall provide temporary access for impacted residential & business properties.
- L. If the temporary surfacing has compacted or settled below the existing grade of the surrounding grades, the contractor shall place and compact additional surface material until level with the existing surrounding grades until such time permanent restoration of the area is to be performed.

3.08 CURBS, GUTTERS, WALKS, DRIVES, INCIDENTAL PAVING & MISCELLANEOUS

A. Curbs & Gutters

- 1. The work to furnish and construct curbs and gutters shall be performed in accordance with the provisions of Sections 706 & 707 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions), unless otherwise specified.
- 2. All work to furnish curbs & gutters shall be performed in accordance with the provisions of Section 707 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions), unless otherwise specified.
- 3. Curbs and gutters are to be constructed in accordance with the typical details, or otherwise indicated. Existing catch basin and other structure tops (including frame and grate) not included the project scope shall be adjusted to match the finished gutter line at no direct pay. Modified (depressed) curbs, heavy duty curbs, and curb transitions required shall be considered included in the respective curb & gutter pay items.

4. There will be no direct payment for the removal of curb which is attached to and removed with the roadway surface.
5. Typically, any removed curbs & gutters are to be restored in-kind (type, section, material, etc.) with the pre-existing. Curb letter markings for water, sewer and other house connections which were pre-existing or required per the Parish standards shall be installed by the Contractor as part of the curb replacement work.

B. Walks, Drives & Incidental Paving

1. All work to furnish concrete walks, drives, and incidental paving, including handicap ramps shall be performed in accordance with the provisions of Section 706 of the Louisiana Standard Specifications for Roads and Bridges (2026 Edition and latest revisions), unless otherwise specified.
2. Tie-ins of existing concrete shall be made by full depth sawing at no direct pay.
3. Walks, drives, and incidental paving, including handicap ramps are to be constructed in accordance with the latest St. John Parish standard details, or otherwise indicated. Existing catch basin and other structure tops (including frame and grate) not included the project scope shall be adjusted to match the finished grade at no direct pay.
4. Sidewalks shall be Portland cement concrete with a compressive strength per the latest LADOTD standard specification Section 706. Sidewalks shall have a minimum width of 5 feet and shall be the greater of 4" or the thickness of the existing walk, unless otherwise approved by the Director of Utilities. All removed sidewalks, regardless of material type, shall be restored with new Portland cement concrete walk as specified herein.
5. Portland cement concrete driveways shall be the greater of 6" or the thickness of the existing drive. Concrete for driveways shall have a compressive strength of 4,000 psi compressive strength in fourteen (14) days, unless otherwise indicated. Existing driveways comprised of other materials (i.e., exposed aggregate, brick, etc.) removed to perform the scope of work shall be replaced in-kind with the pre-existing to match pre-existing unless otherwise indicated.
6. All measurements for handicap curb ramps shall be according to the typical detail. Handicapped curb ramps are subject to the price adjustment provisions of Section 901 of the Louisiana Standard Specifications for Roads and Bridges 2026 Edition and latest revisions). Handicap curb ramps shall have a (24"x60") (Reddish "Terra Cotta" color) raised truncated dome per ADA Guidelines visually contrasting to adjoining surfaces. The color must be approved by the Parish prior to ordering and installing. The detectable warning surface shall be set in concrete as it is curing/wet.

C. General / Miscellaneous

1. If any required work disturbs an existing paver crosswalk section the area shall be restored in accordance with the typical detail. All labor, material, equipment, and other incidental costs associated with the removal, excavation, clay pavers & bedding sand, joints, concrete base, stone base material, backfill, reinforcement, engineering fabrics, saw-cutting, cleaning, disposal of removed & excess materials, etc. shall be included in the respective bid item.
2. If not otherwise shown or indicated construction of other incidental paving shall be replaced in -kind equal in respect to that of the structures removed as part of the work. Shell, brick, stone, gravel, and other surfaces impacted by current project work without a specific pay item shall be restored at no cost to the Owner.

3.09 TESTING REQUIREMENTS

- A. All material and construction testing will be done as directed by the Owner's Representative, or as follows:
 1. Asphalt Roadways:
 - a. One base thickness verification per 600 square yards or fraction thereof.
 - b. One density test on the sub-base (if applicable) and base material per 600 square yards or fraction thereof.
 - c. One pavement core for the thickness verification per 600 square
 2. Concrete Roadways:
 - a. One slump test minimum per 100 cubic yards (accumulated volume) of concrete or fraction thereof.
 - b. Four (4) cylinders minimum per 100 cubic yards (accumulated volume) of concrete or fraction thereof.
 - c. Independent densities, slumps, cylinders, cores, etc., will be required for isolated areas.
- B. All initial testing shall be performed by the Parish selected testing laboratory and at the Parish's expense. All costs for testing to determine compliance after the initial tests shall be borne by the Contractor and deducted from payments due the Contractor. The total deductions for testing costs to be paid for by the Contractor will be included in the reconciliation of final quantities. Contractor is also responsible for all costs for canceled or rescheduled tests.

- C. There shall be no adjustment in bid prices for pavement thickness deficiencies. If the concrete core is less than specified, two additional cores on the same slab within a five- foot (5') radius must be taken. If one of these cores is less than specified, then the entire panel (joint to joint) must be removed, additional cores on other adjacent panels within the core range (600 square yards) must be taken, and the same procedure followed.

3.10 USE OF WIRE MESH / REINFORCEMENT

- A. Wire mesh (W.W.F.) and other reinforcing shall be used in the replacement of sidewalks, driveways, and other incidental paving, if it existed in the removed sections. The size and type used shall, at a minimum, be equal to, or better than that removed. There shall be no additional payment for the use of wire mesh (W.W.F.) or other reinforcing in paving. All concrete roadways shall be reinforced with Fiber reinforcement.

3.11 CLEANING AND ACCEPTANCE OF STREET

- A. Prior to acceptance, the Contractor shall be required to clean up any street as a result of construction activity, as directed by the Owner or Owner's Representative.

(End of Section)

SECTION 32 92 26
LANDSCAPING

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, and equipment to satisfactorily return all construction areas to their original conditions or better.
- B. Work includes furnishing and placing backfill & topsoil as needed to fill disturbed areas to the proper grade, seeding or sodding, fertilization, planting, and watering to restore and maintain disturbed properties (i.e., lawns) and other green spaces disturbed by construction activities for the project.
- C. Seeding of disturbed areas shall be allowed along undeveloped areas of the pipe installation. Sodding will be required for any established properties & green spaces in developed areas. The type of restoration required for any individual area shall be mutually agreed upon by the Contractor and the Owner prior to construction.
- D. Any grass area unduly disturbed or damaged by Contractor's operation beyond the limits of construction required and/or private property shall be replaced at no expense to the owner.

1.02 RELATED WORK NOT INCLUDED

- A. Section 01 32 33: Construction Photographs.

1.03 QUALITY ASSURANCE

A. Requirements

- 1. It is the intent of this specification that the Contractor is obliged to deliver a satisfactory stand of perennial grass as specified. If necessary, the Contractor shall repeat any or all of the work, including plowing, fertilizing, watering, seeding, or sodding at no additional cost to the Owner until a satisfactory stand is obtained.

B. Satisfactory Stand

- 1. For purposes of grassing, a satisfactory stand of grass is herein defined as full cover over areas to be seeded or sodded, with grass free of weeds, alive, and growing, leaving no bare spots larger than 3/4 square yard within a radius of 10 feet.

PART 2 – PRODUCTS

2.01 FERTILIZER

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- A. Fertilizer shall be a slow-release type meeting the following minimum requirements: 12% nitrogen, 3% phosphorus, 6% potassium, 40% other available materials derived from organic sources. Fertilizer shall be uniform in composition, dry and free flowing, delivered to sites in original unopened containers bearing manufacturer's statement or guarantee.

2.02 SOD

- A. Grass sod shall be of the same type grass as existed prior to construction. Sod shall be live nursery quality sod blocks measuring at least 9 inches square. The sod shall be of a thickness that will provide a soil binder with a root system that will enhance growth of the grass and provide a thick, healthy grass cover.

2.03 SEED

- A. Grass seed shall be the same as existed prior to construction or as approved by the Engineer and shall be 99% minimum purity, 80% minimum germination, and 1% maximum weed seed, labeled in accordance with U.S. Department of Agriculture Rules and Regulations under Federal Seed Act in effect. Seed which has become wet, moldy, or otherwise damaged in transit or storage shall not be acceptable.

2.04 TOPSOIL

- A. Topsoil stockpiled during excavation shall be used. If additional topsoil is required, it shall be obtained off site. Topsoil shall be fertile, natural surface soil, capable of producing all trees, plants, and grassing specified herein.

2.05 MULCH

- A. Mulch shall be fresh cypress mulch. Rate of application specified herein shall correspond to depth not less than 1" or more than 3" according to texture and moisture content of mulch material.

2.06 WATER

- A. It is the Contractor's responsibility to supply all water to the site, as required during planting operations and through the maintenance period and until the work is accepted. The Contractor shall make whatever arrangements may be necessary to ensure an adequate supply of water to meet the needs for his work. He shall also furnish all necessary hose, equipment, attachments, and accessories for the adequate irrigation of lawns, and planted areas as may be required. Water shall be suitable for irrigation and free from ingredients harmful to plant life.

PART 3 – EXECUTION

3.01 INSTALLATION

LANDSCAPING

A. Time of Planting

1. When the trench backfill has compacted sufficiently, the Contractor shall commence work to restore landscaped areas & other green spaces disturbed, including fine grading as required.

B. Soil Placement

1. Lawn areas shall be plowed to a depth of 6", depressions filled, and sticks and rubbish removed. Following subgrade preparation, topsoil shall be spaced evenly 6" thick over all disturbed green space areas, including lawns, and planting areas. Prepare surface by raking or other means so as to establish smooth lawn. Apply 20 lbs. of 12-3-6 fertilizer per 1000 sq. ft.

C. Finish Grading

1. Areas to be seeded or sodded shall be finished graded, raked, and debris removed. Soft spots and uneven grades shall be eliminated. All slopes of 4 to 1 or greater shall be mulched. Seed and sod shall be sown or layed within 24 hours following application of fertilizer.

D. Grassing Methods

1. Grassing shall be seeded uniformly at a rate of 10 lbs. to 1000 sq. ft. of area, or as recommended, by use of rotary hand seeders, power sprayers, or other satisfactory equipment, lightly raked, compacted, and watered using fine spray. Seeded areas shall be protected against traffic or other use by placing warning signs or erecting barricades as necessary. Thirty (30) days after seeding, the Contractor shall fertilize with 10 lbs. of Sta-Green fertilizer per 2500 sq. ft. of lawn area. Protect seeded areas against erosion by spreading straw to be uniform loose depth of 1-1/2 inches, if applied by hand seeders or hydro mulch if applied by hydro-seeding.
2. Sod shall be installed by laying a solid mat of sod blocks where necessary. The sod blocks shall be broken up to "chink" holes left due to mismatched sod blocks or to cover irregular areas. Thirty (30) days after seeding, the Contractor shall fertilize with 10 lbs. 18-24-10 fertilizer per 2500 sq. ft. of lawn area.
3. Preparation of Subgrade. Unless otherwise specified, subsoil shall be graded and uniformly compacted so that it will be parallel to proposed finished grade.

E. Landscaping

1. Install trees, shrubs, and other landscaping / plantings when authorized by the Owner and/or Project Manager.

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3.02 CLEANUP

- A. Soil, mulch, or similar materials brought onto paved areas shall be removed promptly, keeping these areas as clean as possible at all times. Upon completion of planting operations, all excess soil, stones, and debris remaining shall be removed from the construction areas.

3.03 LANDSCAPE MAINTENANCE

- A. Maintain landscape work for a period of 90 days immediately following complete installation of work or until Owner accepts the project. Include watering, weeding, cultivating, restoration of grade, mowing and trimming grass, protection from insects and diseases, fertilizing and similar operations as needed to ensure normal growth and good health for live plant material.

3.04 REPAIRS TO LAWN AREAS

- A. Green spaces areas, including lawn areas, planted under this contract and all other green space areas damaged by the Contractor's operation shall be repaired at once by proper soil preparation, fertilizing, and reseeding or sodding, in accordance with these specifications.

(End of Section)

SECTION 33 01 30
SEWER MANHOLE INSTALLATION AND REPAIRS

PART 1 – GENERAL

1.01 REQUIREMENTS

- A. The work associate with the installation and/ to rebuild or repair on sanitary sewer manholes and conflict boxes shall be performed in accordance with the latest typical details, or as otherwise specified.
- B. Contractor is required to plug all influent lines and by-pass pump (under the conditions of the by-pass pumping section) as necessary to allow for construction, rebuilding, repairing, or re-pointing of sewer manholes.
- C. If work associated with the replacement and/or repairs of sewer manholes requires the removal of existing paving, including roadways, curbs, gutters, drives, walks, handicap curb ramps, and other incidental paving, upon completion of the sewer manhole replacement or repair work as specified herein, the Contractor shall restore the disturbed paving areas with the same material and section in accordance with technical specification Section 32 10 00, or as otherwise indicated. The limits of pavement removal shall be kept to the minimum required to perform the required work. The existing paving shall be saw-cut as required to provide for a clean, straight edge and be free all loose material & debris.

PART 2 – PRODUCTS

- 2.01 Masonry cement shall conform to ASTM C-150, Type II.
- 2.02 Sewer Brick shall conform to specification section 04 21 13.
- 2.03 Precast Concrete manholes shall confirm to ASTM C-478.
- 2.04 Fiberglass Reinforced plastic manholes shall conform to ASTM D-3753.
- 2.05
- 2.06 MANHOLE RINGS & COVERS

- A. Manhole frames and covers shall be East Jordan Iron Works “V-1403” frame with “V-1501 Cover”, US Foundry “USF 766 Frame” with “USF CJ Cover or approved equal. Covers shall be diamond thread with the word “SEWER” cast into the cover. Rain stoppers shall be made of Type 304 stainless steel to prevent corrosion.

2.07 SEWER MANHOLES

A. Precast Concrete Manholes:

1. Precast concrete manholes shall conform to the requirements of ASTM C- 478.
2. Precast sewer manholes shall be furnished with Ram-Nek or approved equal rubber gasket in accordance with ASTM C-443. All precast manholes shall be cast with Kor-N-Seal I Boot as manufactured by Fernco for connecting sanitary sewer pipes to manholes.
3. All joints in precast concrete manholes shall be wrapped tightly with a three- foot (3') band of filter cloth. The cloth shall lap by its width. Filter cloth shall be Mirafi 700x or an approved equal. An approved non-shrink grout shall be used for grouting service lines into manholes.
4. Xypex admix C-1000 shall be incorporated into mortar mixes for sanitary sewer manholes. Xypex shall include a dye to distinguish from concrete without Xypex, except top slab for of lift station wet wells and valve pits. Sewer lift station wet wells and sanitary sewer manholes receiving force mains, located within 100' of a sewer lift station, and 8' & deeper shall have concrete fortified with Conshield in addition to Xypex.

B. Brick Manholes:

1. Refer to Section 04 21 13 Brick Masonry for brick, cement, mortar, grout and other materials and performance requirements for the installation of brick manholes.

C. Fiberglass Manholes:

1. Fiberglass reinforced polyester manholes may be specified if installation is not within a roadway, or as directed by the Owner.
2. Fiberglass manhole shall be a one-piece unit manufactured to meet or exceed all specifications of ASTM D-3753 and shall be designed for the loadings and environment of the installation. Manhole frames and covers shall be East Jordan Iron Works "V-1403" frame with "V-1501 Cover", US Foundry "USF 766 Frame" with "USF CJ Cover or approved equal. Covers shall be diamond thread with the word "SEWER" cast into the cover.

- D. Casting for manhole frames, covers and all other iron castings required should have a heavy-duty load rating and be tough gray iron free from injurious defects. The annular bearing planes shall be ground or machined so they will not rock or rattle when crossed by traffic. Allowance shall be made in the patterns so that grinding or machining will not reduce the thickness required. Covers shall fit the frame accurately in any position.

2.07 MANHOLE BENCH/TROUGH

- A. The material used for construction shall be a quick setting cementitious material, and is to be mixed and applied according to manufacturer's recommendations and shall have the following minimum requirements:
1. Compressive strength: (ASTM C – 190) 6 hrs. 1400 psi
 2. Shrinkage: (ASTM C – 596) 0% at 90% R.H.
 3. Bond: (ASTM C – 321) 28 days, 150 psi
 4. Density, when applied: 105 +(-) pcf

PART 3 – EXECUTION

3.02 MANHOLE INSTALLATION

- A. All manholes and conflict boxes shall be constructed as indicated on the latest typical details, or as otherwise specified. All ground water shall be kept away from the newly grouted pipe and bricks until cement has properly set, and until a watertight job is obtained. Manholes and conflict boxes, which admit groundwater after completion, will not be accepted. Bricks must be laid in full, close, shove joints of mortar, following the best work standards.
- B. Bedding material for manholes and conflict boxes shall be crushed #57 limestone. It shall be compacted in lifts not exceeding 2 inches, using a drum roller or plate vibrating compactor.
- C. A minimum of two passes over the entire bedding area is required for compaction of the bedding material. The bedding shall be underlain by a geotextile fabric, such as Mirafi 500, or approved equal.

Excavated areas around manholes and conflict boxes shall be backfilled with select native material or river sand, unless located in paved areas. In paved areas, only river sand will be accepted, compacted to 97% of maximum dry density, in accordance with ASTM D-1557.

3.03 MANHOLE ADJUSTMENTS

- A. If grade adjustments of existing manholes are required, frames and covers shall be removed and chimneys/walls reconstructed as specified for new work and in accordance with the standard drawings and specifications, or as otherwise specified.
- B. The top of the manhole cover shall be adjusted to the surrounding paving or ground level, or an elevation established by the Project Manager.

- C. Frames and covers shall be cleaned and placed in good repair (or replaced, if approved by the Project Manager or Director of Utilities). Structures may be adjusted by means of metal riser rings, precast riser rings, brick/mortar, or grout. Metal adjusting rings shall be connected to an existing ring by either welding at least 30% of circumference or by using an epoxy system designed for metal-to-metal adhesion.
- D. After removal of existing manhole cover, a suitable temporary cover shall be placed over manhole to prevent debris from entering manhole and to provide for safety of workman and the public until manhole cover is in place.
- E. If rubble and debris fall into a “live” manhole during adjustment operations, the Contractor shall immediately clear manhole of debris at no direct cost.
- F. If existing sanitary sewer manhole is equipped with an inverter pan / stopper to prevent intrusion of storm water, pan shall be removed and reinstalled after completion of manhole adjustment.
- G. When required, existing manhole castings shall be adjusted to an elevation established by the Owner’s Representative. This adjustment may be either an increase or decrease in the existing casting elevation and will not exceed one foot in either direction. The Contractor shall make these adjustments by either adding or removing brick courses, as required, or as approved by the Owner’s Representative.

3.04 RESETTING EXISTING MANHOLE RINGS & COVERS

- A. This item includes the removal and cleaning of the existing frame and cover, the exposed concrete surface to insure a good bonding surface, resetting and grouting the ring, and resetting the cover.

3.05 MANHOLE RINGS & COVERS

- A. Casting for manhole frames, covers and all other iron castings required should have a heavy-duty load rating and be tough gray iron free from injurious defects. The annular bearing planes shall be ground or machined so they will not rock or rattle when crossed by traffic. Allowance shall be made in the patterns so that grinding or machining will not reduce the thickness required. Covers shall fit the frame accurately in any position.
- B. This item includes the removal and cleaning of the existing frame and cover, the exposed concrete surface to insure a good bonding surface, resetting and grouting the ring, and resetting the cover.

3.06 SEWER MANHOLES

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- A. New sewer manholes, including existing manhole structures to be rebuilt in entirety, shall be installed in accordance with the typical drawings and specifications, or as otherwise specified.
- B. For any sewer manhole where the vertical distance from the flow line of the outgoing sewer to the invert of the incoming sewer exceeds three feet (3'), or otherwise indicated, drop pipe shall be built for the incoming sewers. Typical drop pipes for eight-inch (8") sewers entering sewers of any size will be eight inches (8") in diameter. Drop pipe for sewers of other size will be as indicated or as directed by the Project Manager or Director of the Department of Utilities.
- C. Manhole frames and covers shall be East Jordan Iron Works "V-1403" frame with "V-1501 Cover", US Foundry "USF 766 Frame" with "USF CJ Cover or approved equal. Covers shall be diamond thread with the word "SEWER" cast into the cover.
- D. Casting for manhole frames, covers and all other iron castings required should have a heavy-duty load rating and be tough gray iron free from injurious defects. The annular bearing planes shall be ground or machined so they will not rock or rattle when crossed by traffic. Allowance shall be made in the patterns so that grinding or machining will not reduce the thickness required. Covers shall fit the frame accurately in any position.
- E. No steps shall be installed in manholes.

3.07 PRECAST CONCRETE MANHOLE WALL/CONE

- A. Precast manhole walls/cones shall conform to the requirements of ASTM C- 478. Joints between the sections shall comply with ASTM C-443 and be sealed with neoprene gaskets, minimum thickness 3/16 inch, or Ram-Nec joint material, or approved equal. All work shall be performed in accordance with the typical drawings and specifications.
- B. All joints in precast concrete manholes shall be wrapped tightly with a three-foot (3') band of filter cloth. The cloth shall lap by its width. Filter cloth shall be Mirafi 700 x or an approved equal.
- C. An approved non-shrink grout shall be used for grouting pipes into manholes.
- D. Wall sections shall be furnished in lengths required to match the existing lengths as closely as possible.

3.08 MANHOLE BENCH/TROUGH

- A. Repair shall be performed on all inverts with visible damage or infiltration. After blocking flow through the manhole, and thoroughly cleaning the invert, the quick setting patch mix shall be applied to the invert in an expeditious manner. The mix shall be troweled uniformly

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onto the damaged invert to repair the bench/trough to insure a smooth flow without creating any ledges that will trap solid material. The finished invert surfaces shall be smooth and free of ridges. The flow may be re-established in the manhole within 30 minutes after placement of the mix.

(End of Section)

SECTION 33 01 30.16
SMOKE TESTING

PART 1 – GENERAL

- A. Smoke testing will be accomplished upon the completion of all point repairs, to determine if the repair is acceptable. Smoke testing may also be ordered on a limited basis, to identify defects on certain sewer line segments.
- B. Smoke testing must be scheduled during dry weather to optimize the effectiveness of the test. Local conditions will dictate the time required after a rainfall event that will allow for smoke testing to be optimally effective.
- C. The cost for smoke testing in order to verify an acceptable pipe replacement or point repair is considered incidental to replaced pipe segments and/or point repair locations. It will not be considered for separate payment. Should the smoke test reveal an unacceptable point repair, the Contractor will be required to correct the repair deficiency and re-smoke test the repair.

PART 2 – PRODUCTS

- A. The smoke shall be blown by a specially designed gasoline powered blower. Blower pressure must be adequate (not less than 4000 cfm) to force smoke throughout the isolated line segment and to the ground surface through cracks, channels, loose adaptor connections, etc. If inadequate pressure is being generated, then additional blowers (dual blowers) or larger blowers may be required. Adequate pressure is being provided when smoke is exiting the vent stacks as a plume or, where no vent stacks are present, smoke is exiting the upstream/downstream manhole casting/vent hole/pick hole, etc.

The base of the blower shall have appropriate adapters and seals to make a good connection to the manhole without excessive loss of smoke.

- B. Standard non-toxic smoke bombs that will produce smoke for a minimum of 5 minutes shall be used.
- C. Unless otherwise approved, smoke shall be white to gray in color, leave no residue, and shall be non-toxic and non-explosive. The Contractor shall provide the smoke Material Safety Data Sheet (MSDS) sheet to the Owner.

PART 3 – EXECUTION

- A. The Contractor will be required to isolate sewer line segments by plugging inlet lines at manholes, in order to conduct a proper smoke test. Only one line segment on each side of the blower shall be tested on a set up. The Contractor shall visually identify and document each defect location at manholes and along a sewer line. Digital camera(s) should be used

to document the field visual observations. Color photos in digital format and GPS coordinates shall be provided to log the locations of defects/leaks. All inspections and observed defect/leak locations shall be recorded on a field inspection report form approved by the Project Manager and Owner.

- B. The Contractor shall provide safety equipment suitable for the anticipated field and traffic conditions. The area of work shall be protected by means of an adequate number of cones, barricades, flags, or by other means necessary to properly and safely protect both vehicular and pedestrian traffic.
- C. Notification to Residents:
 - 1. The Contractor will be responsible for distributing a printed notification letter to residents, approved by the Department of Utilities. The letter must indicate the nature of the work being conducted and the smoke testing procedures. This notice is to be distributed at least 48 hours prior to testing, but no earlier than 72 hours prior to testing. The notification letter is to be distributed to each household or commercial establishment located in the area to be smoke tested.
- D. The Contractor will be required to notify both the Owner's Representative and the local Fire Department at least 1 hour prior to smoke testing. The Owner's Representative must be present to witness any smoke testing conducted, in order to verify an acceptable point repair.
- E. The Contractor's smoke testing field crew will be of sufficient size to properly operate the smoke generation machine and provide full coverage of the area to visually locate smoke discharged from defects. This must include personnel for traffic control.
- F. The Contractor's smoke testing field crew shall also be properly trained and thoroughly experienced in the use of the equipment and procedures. In addition, the Contractor shall take appropriate action to ensure that his/her employees are polite to the public in all aspects of the work and that immediate assistance is provided to property owners if needed.
- G. Work hours must be approved by the Owner. However, the Contractor shall not typically commence testing before 7:00 a.m. local time and shall terminate testing no later than 5:00 p.m. Monday through Friday. If the Contractor wishes to test outside these times or days for commercial areas or high traffic areas approval from the Owner must be obtained before proceeding.
- H. Smoke testing shall not be performed on weekends or on holidays without the prior approval of the Owner.
- I. The Contractor shall be aware of and follow all Federal, state, and local safety laws and regulations.

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- J. Any condition deemed to be an unsafe by the Contractor shall be reported to the Owner. It is further understood that the Contractor shall not be required to work where, in the opinion of the Contractor, conditions would not be safe for the public, company personnel, equipment, etc.
- K. It is the intent of this specification that the smoke testing be accomplished without the need for bypass pumping. The Contractor shall provide temporary plugs, sandbags or flow barriers as required to contain an adequate volume of smoke within the section of sewer being tested. The Contractor shall monitor the resulting surcharged sewer at the manhole upstream of the tested section of sewer and prevent overflow conditions from occurring.

(End of Section)

SECTION 33 01 60
SEWER MANHOLE REHABILITATION

PART 1 – GENERAL

1.01 REQUIREMENTS

- A. This section covers all workmanship, equipment, materials, quality, and other general requirements for wastewater structure rehabilitation, including surface preparation, application, and performance for installation of chemical grouting, sealing leaks, water plugs, lining & coating of sewer manhole / wet well structures.
- B. The work areas will be designated by the Project Manager/Owner. The installer's personnel shall not be permitted in any area other than those expressly designated by the Project Manager.
- C. The installer shall coordinate with the Project Manager/Owner regarding availability of work areas, completion times, safety, access, and other factors that can impact sewer collection operations.

1.02 REFERENCES

- A. Referenced publications found within this specification shall be the latest revision unless otherwise specified. All applicable sections and applicable parts within of the referenced publications shall become a part of this specification as if fully included.
 - 1. ASTM C78, Standard Test Method for Flexural Strength of Concrete
 - 2. ASTM C109, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars
 - 3. ASTM C157, Standard Test Method for Length Change of Hardened Hydraulic-Cement Mortar and Concrete
 - 4. ASTM C307, Standard Test Method for Tensile Strength of Chemical-Resistant Mortar, Grouts, and Monolithic Surfacing
 - 5. ASTM C580, Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes
 - 6. ASTM C596, Standard Test Method for Drying Shrinkage of Mortar Containing Hydraulic Cement
 - 7. ASTM C882, Standard Test Method for Bond Strength of Epoxy-Resin Systems Used with Concrete By Slant Shear
 - 8. ASTM F2414, Standard Practice for Sealing Sewer Manholes Using Chemical Grouting
 - 9. ASTM C920 – Specification for Elastomeric Joint Sealants
 - 10. ASTM D3960 – Practice for Determining Volatile Organic Compound (VOC) Content of Paints and Related Coatings

11. ASTM D4259 – Practice for Abrading Concrete
12. ASTM D4787 – Standard Practice for Continuity Verification of Liquid or Sheet Linings Applied to Concrete Substrates
13. ASTM E337 – Standard Practice Test Method for Measuring Humidity with a Psychrometer
14. ASTM D4541 – Adhesion
15. ASTM D412 – Tensile Strength and Elongation
16. ASTM D2240 – Tear Strength
17. ASTM D1737 – Hardness
18. ASTM D460 – Taber Abrasion
19. NACE Pub. 6D-173 – A Manual for Painter Safety
20. NACE Pub. 6G-164 – Surface Preparation Abrasives for Industrial Maintenance Paintings
21. Pub. 6F-163 – Surface Preparation of Steel or Concrete Tank Interiors
22. NACE RP0892-92 – Standard Recommended Practice, Lining over Concrete in Immersion Service
23. NACE RP0288-88 – Standard Recommended Practice, Inspection of Linings on Steel and Concrete
24. Federal Standard 595 B – Federal Standard Colors
25. Guideline No. 03732 – Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays (Federal Standard Colors and International Concrete Restoration Institute)
26. The Published Standards of the National Association of Corrosion Project Managers
27. SSPC-SP12 (Steel Structures Painting Council) – Surface Preparation and Cleaning of Steel and Other Hard Materials by High and Ultrahigh Pressure Water Pressure Prior to Recoating
28. SSPC-SP13 – Surface Preparation of Concrete
29. SSPC-PA-3 – “A Guide to Safety in Paint Application”
30. OSHA 1915.35 – Standards – 29 CFR – Painting
31. ANSI/ASC Exhaust Systems – Abrasive Blasting Operations –Ventilation and Safe Practice

1.03 PRODUCT SUBMITTALS

A. Pre-Approval Product Submittals

1. Products will not be considered by Project Manager as an “or-equal” or substitute unless a written request for approval has been submitted by the Bidder and has been received by Project Manager at least 15 days prior to the date for receipt of Bids. Requests for approval shall include all of the following information:
 - a. A cover sheet stating the name of the proposed product and the name of the currently specified product (with applicable specification section number) which the proposed product is requesting to be approved as an “or-equal.” The letter shall provide evidence that the installing contractor has a minimum of 10-years of experience installing the proposed “equal” product.

- b. A letter from the installer stating that the proposed product is in compliance with all aspects of the specifications including all applicable physical properties, thicknesses, dimensions, cure-times, and warranty requirements. The Installer shall also include with the letter complete references (with current contact information) showing exactly how many successful installations of the proposed product that the installer has completed to date.
 - c. A letter from the manufacturer stating that the proposed product is in compliance with all aspects of the specifications including all applicable physical properties, thicknesses, dimensions, cure-times, and warranty requirements.
 - d. Documentation that the installer of the product has been trained and certified by the manufacturer and meets the experience requirements of these specifications.
 - e. A list of the last five projects completed by the installer utilizing the applications and methods similar to those proposed for this project, along with the quantities installed and a contact person for the Owner or Project Manager for each project.
2. The burden of proof of the merit of the proposed item is upon the Bidder. Project Manager's decision of approval or disapproval of a proposed item will be final. If Project Manager approves any such proposed item, such approval will be set forth in an Addendum issued to all prospective Bidders. Bidders shall not rely upon approvals made in any other manner.

B. Product Submittals

1. The contractor shall submit the following information to the Project Manager for approval prior to beginning the application and installation of the sewer rehabilitation products and systems to be utilized for this work, if applicable for the proposed product or system:
- a. Material type and manufacturer to be used, including catalog data showing manufacturer's clarifications and updates, ASTM references, data sheets for all products supplied, material composition, manufacturer's recommended mix, additives and set time.
 - b. Manufacturer's detailed description of recommended procedures for specifications, physical properties and chemical resistance, handling, storing and ventilation requirements for materials, including temperature & humidity range limits.
 - c. Manufacturer's detailed description of processes to execute the use of material including equipment required.
 - d. Detailed description of field-testing processes and procedures.

- e. Material Safety Data Sheets (MSDS) for any materials brought on-site.
- f. Submit daily reports that contain the following information: Substrate conditions, ambient conditions, application procedures, work completed with location thereof, and pre-&post construction photographs.
- g. A letter from the installer stating that the proposed product is in compliance with all aspects of the specifications including all applicable physical properties, thicknesses, dimensions, cure-times, and warranty requirements. The Installer shall also include with the letter complete references (with current contact information) showing exactly how many successful installations of the proposed product that the installer has completed to date.
- h. A letter from the manufacturer stating that the proposed product is in compliance with all aspects of the specifications including all applicable physical properties, thicknesses, dimensions, cure-times, and warranty requirements.
- i. Documentation that the installer of the product has been trained and certified by the manufacturer and meets the experience requirements of these specifications.

1.04 QUALITY ASSURANCE

- A. Do not use or retain contaminated, outdated, diluted, or otherwise compromised materials. Do not use materials from previously opened containers.
- B. Use only products meeting the applicable design and other requirements included in these specifications and those that are applied by a prior approved installer. Use products of one manufacturer in any one coating, lining, or resurfacing system application with compatible materials. Provide the same material product for touch-up or repair as for original material.
- C. If any requirements of this specification conflict with an applicable part of a referenced standard, the more stringent requirement shall apply.
- D. Make available all locations and phases of the work for access by the Project Manager/Owner or other personnel designated representative. The installer shall provide ventilation and egress to safely access the work areas for inspection.
- E. Conduct work so that the products or system is installed as specified herein, or otherwise directed by the Project Manager/Owner, and according to manufacturer's recommendation. Inspect work continually to ensure that the products or system is

The installer shall inspect the work to determine conformance with the specifications and referenced documents. The installer shall inform the Project Manager of the progress and the quality of the work through daily reports. Any nonconforming coating system

work shall be corrected as recommended by the manufacturer or as directed by the Project Manager/Owner.

- F. The methods of construction shall be in accordance with all requirements as specified and the manufacturer's requirements.
- G. Employ only tradespeople who have completed at least five (5) similar projects within the last ten (10) years using similar materials. This experience shall be strictly limited to wastewater structure rehabilitation work as specified with only products previously approved. Projects with products not approved for use on this project prior to bid or as specified herein will not be considered for record of experience.
- H. Materials shall be applied only during good weather periods as per manufacturer requirements. Air and surface temperatures as well as dew point shall be within limits prescribed by the manufacturer for the product being applied and work areas shall be reasonably free of airborne dust at the time of application and while drying. The structure surface must be properly cleaned and prepared in accordance with the manufacturer's requirements prior to application.
- I. Upon completing the installation, the Contractor must obtain written certification from the manufacturer that all work has been performed in accordance with the requirements and within the limits prescribed by the manufacturer.
- J. All safety precautions recommended by the manufacturer shall be strictly adhered to at all times when work is in progress.
- K. Do not use floor drains, ditches, or storm drains for disposal of materials.
- L. If applicable, the installer shall take all precautions and implement all measures necessary to avert potential hazards associated with the handling, mixing, and/or application of materials as described on the pertinent Material Safety Data Sheets or container labels.

1.05 DELIVERY AND STORAGE

- A. Materials shall be stored in accordance with the manufacturer's recommendations in enclosed structures and shall be protected from weather and adverse temperature conditions. Flammable materials shall be stored in accordance with state and local codes. Materials exceeding storage life recommended by the manufacturer shall be removed from the site.
- B. If applicable, store all materials only in an area or areas designated by the Project Manager/Owner solely for this purpose. Confine mixing, thinning, clean-up and associated operations, and storage of materials-related debris before authorized disposal, to these areas. If material is delivered in buckets or bags, all materials are to be stored on pallets or similar storage/handling skids off the ground in sheltered areas in which the temperature is maintained between 50F and 90F, or temperature range required by the

manufacturer or by the Project Manager/Owner.

- C. This enclosed area must protect the mixing operation and materials from direct sunlight, inclement weather, freezing, or other means of damage or contamination. Protect all other concrete and metallic surfaces and finishes from any spillage of material(s) within the mixing area.
- D. If applicable to manufacturer's packaging standards, deliver all materials to the job site in their original, unopened containers. Each container shall bear the manufacturer's name and label.
 - 1. Labels on all material containers must show the following information:
 - a. Name or title of product
 - b. Federal Specification Number if applicable
 - c. Manufacturer's batch number and date of manufacture
 - d. Manufacturer's name
 - e. Generic type of material
 - f. Application and mixing instructions
 - g. Hazardous material identification label Shelf-life date
 - h. Storage requirements
- E. All containers shall be clearly marked indicating any personnel safety hazards associated with the use of or exposure to the materials.
- F. All materials shall be handled and stored to prevent damage or loss of label.
- G. Do not use or retain contaminated, outdated, prematurely opened, diluted, or otherwise compromised materials.

1.06 JOB CONDITIONS

A. Environmental:

- 1. Prepare surfaces and apply products within air and surface temperature range in accordance with manufacturer's instructions.
- 2. Prepare surfaces and apply products within relative humidity range in accordance with manufacturer's instructions.
- 3. Do not prepare surfaces or apply products in rain, snow, fog, or mist.
- 4. Do not apply or spray materials if wind velocity causes overspray.

1.07 WARRANTIES

- A. Provide an affidavit executed under seal by an officer of the manufacturer stating that if their proposed grout, coating, and/or lining system is used on this project, the manufacturer will warrant the finished, in-place, products / systems against infiltration and corrosion for the minimum number of years from the installation date as specified below:

1. Cementitious Mortar / Spray On Epoxy Liners / Hybrid Epoxy Mortar Liners:

Manufacturer warranty shall include a five (5) year minimum limited warranty covering the product will perform its function as intended and will remain free of defects. The contractor shall warrant that the installation was performed in accordance with the manufacturer's recommendation. The contractor will further warrant that the work performed will remain free from defects, failure due to defective material, installation, or workmanship for a period of five (5) years from the date of completion, or for the same period of the manufacturer limited warranty if greater.

2. Multi-Layered Composite Liners:

Manufacturer warranty shall include a ten (10) year minimum limited warranty covering the product will perform its function as intended and will remain free of defects. The contractor shall warrant that the installation was performed in accordance with the manufacturer's recommendation. The contractor will further warrant that the work performed will remain free from defects, failure due to defective material, installation, or workmanship for a period of ten (10) years from the date of completion, or for the same period of the manufacturer limited warranty if greater.

- B. Both the manufacturer and the installer shall stand behind their warranty for the duration of the respective warranty period.
- C. For all other sewer structure rehabilitation products, not used for coating or lining systems, the manufacturer shall provide a certified letter to include a warranty covering both materials and installation beginning on the date of final acceptance for the number of years as specified for the specific product, or the manufacturer's standard warranty period, whichever is greater. The warranty term terms & conditions shall also be attached to the letter from the manufacturer. The installer shall stand behind the manufacturer's warranty covering both materials and installation beginning on the date of final acceptance.

PART 2 – PRODUCTS /MATERIALS

2.01 GENERAL

- A. All products and materials specified herein for use on this project are to establish performance, quality, and other general requirements.
- B. All products to be used on this project must be pre-approved by the Project Manager if

not specified. The lining system to be utilized shall be a protective lining system designed to protect concrete and other surfaces against corrosion from hydrogen sulfide gas, acids, and other substances common in raw domestic wastewater. Coating materials must be designed to provide long term protection for wastewater manholes subjected to extremely high levels of hydrogen sulfide induced corrosion.

- C. Other manufacturers or products seeking pre-approval must be submitted to the Project Manager prior to the bid opening to be considered in accordance with the submittals section of this specification.

2.02 INFILTRATION CONTROL PRODUCTS/MATERIALS

A. Acrylic or Acrylate Base Grout for non-structural infiltration control:

1. Follow ASTM F2414 and as specified herein.
 - a. Two-part chemical grout mixed at point of injection.
 - b. Minimum 25 percent acrylic or acrylate base material by volume.
 - i. To increase strength or offset dilution during injection period, use higher concentration of base material as directed by Project Manager.
 - c. Controllable reaction time: 10 seconds to 1 hour.
 - d. Viscosity: 1.5 centipoises water.
 - i. May be increased maximum of 2.5 centipoises water as directed by Project Manager.
 - ii. Remain constant throughout injection period.
 - e. Tolerates dilution and reacts in moving water.
 - f. Final reaction:
 - i. Produces chemically, continuous irreversible, non- biodegradable, flexible gel, impermeable to water at pressures up to 15 psi in pure form.
 - ii. Produces stabilized soil in ground that will not become brittle or rigid.
 - g. Gel does not bleed water under stress.
 - h. Dehydrated gel returns to 90 percent of its original volume and form after prolonged period of low ground water.
 - i. Do not use catalyst containing dimethyl amino propionitrile (DMAPM).

- j. Use root inhibitor (50% active dichlobenil) when roots are present in manholes, connecting pipes or laterals.
 - i. Change dye color to confirm root inhibited grout is being injected.
 - k. Use latex additive for increased tensile strength.
 - l. Tinted to allow detection of grout in drill holes or at leakage locations.
 - m. Approved Manufacturers/Products.
 - i. Grout
 - 1. Avanti, AV-118 Duriflex a) Additives
 - a. AV-101 Catalyst T+
 - b. AV-103 Catalyst SP
 - 2. Or Equal
 - ii. Root Inhibitor
 - 1. Avanti, Norosac AC50W – Root Inhibitor
 - 2. Or Equal
 - iii. Latex Additives
 - 1. AV-257 Icoset
 - 2. Or Equal
- B. Urethane Base Grout for non-structural infiltration control: Follow ASTM F2414 and as specified herein.
- 1. Ratio: One part urethane prepolymer to 10 parts water by volume (10 to 50 percent prepolymer).
 - 2. Liquid prepolymer:
 - a. Solids content: 77 to 100 percent.
 - b. Specific Gravity: 1.04
 - c. Flash Point: 20 degrees F.
 - d. Viscosity: 200 to 1,200 centipoises water at 70 degrees F.
 - 3. Water for reacting prepolymer: pH of 5 to 9.
 - 4. Use manufacturer recommended gel control agent to control cure time as required.
 - 5. Final Reaction:

- a. Produces chemically continuous irreversible, non-biodegradable, flexible gel, impermeable to water at pressures up to 15 psi in pure form.
6. Use root inhibitor (50% active dichlobenil) when roots are present in manholes, connecting pipes, or laterals.
7. Use latex additive for increased tensile strength.
8. Tinted to allow detection of grout in drill holes or at leakage locations.
9. Approved Manufacturers/Products.
 - a. Grout
 - i. Avanti, Acrylic Gel AV-350 Multi Gel
 - ii. De Neef, Inc., Hydro Active Multigel NF.
 - iii. Or Equal
 - b. Root Inhibitor
 - i. Avanti, Norosac AC50W – Root Inhibitor
 - ii. Or Equal
 - c. Latex Additives
 - i. Avanti, AV-257 Icoset
 - ii. Or Equal

C. Hydraulic Water Plugs for non-structural infiltration control

1. Rapid setting to plug active leaks prior to other rehabilitation work
2. Initial Set Time at 70 degrees F: 60 to 90 seconds
3. Final Set Time at 70 degrees F: One hour
4. Compressive Strength (ASTM C109): 2500 psi at 24 hours / 4,000 psi at 28 days
5. Length Change (ASTM C157): 0 percent
6. Approved Manufacturers/Products.
 - a. Parson Environmental Products.
 - i. Parson Quick Plug
 - b. Strong Company, Inc.
 - i. Strong-Plug
 - c. Or Equal

2.03 MANHOLE SURFACE REHABILITATION LINERS AND COATINGS

A. Cementitious Mortar

1. Quick setting (under 20 minutes), high strength, sulfide resistant, calcium aluminate-based or Portland cement material.
2. Suitable for troweling or rotary spray application to inside of manhole.
3. Use additives to increase corrosion resistance or bond strength at manufacturer's direction and with Project Manager's approval.
4. Initial set time per manufacturer's recommendation and per project conditions.
5. Density when applied: 134 lb/cf +/- 5lb/cf
6. Compressive strength (ASTM C109) at 1 day
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 2,000 psi
7. Compressive strength (ASTM C109) at 28 days.
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 5,500 psi
8. Bond Strength (ASTM C882) at 28 days
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 1,640 psi
9. Flexural Strength (ASTM C78) at 28 days
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 1.200
10. Shrinkage (ASTM C596) at 28 days: 0 percent
11. Freeze/Thaw (ASTM C666): no visible damage
12. Thickness: 500 mils (1/2") minimum.
13. Approved Manufacturers/Products.
 - a. Rainstopper
 - i. CMS 10K

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- b. Madewell
 - i. Mainstay ML-72
- c. Strong Company, Inc.
 - i. Strong Seal High Performance Mix
- d. Or Equal

B. Spray on Epoxy Liners

1. Seamless manhole formed in place, within existing manhole extending from channel to frame
2. Two- or three-part epoxy coating
3. Existing wall preparation: Follow manufacturer's recommendations
4. Thickness:
 - a. Structurally independent of existing manhole structure or sufficient to form protective barrier when used with Cementitious Manhole Restoration. Thickness to be 250 mils if standalone or 150 mils if used with 500 mils (1/2") cementitious underlayment.
 - b. Designed by manufacturer related to location, loads, water table and condition of manhole.
5. Minimum Tensile Strength:
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 7,500 psi (ASTM D638) at 28 days / 2,500 psi (ASTM C307)
6. Tensile Elongation at Break: 3-7%
7. Minimum Flexible Strength:
 - a. Per manufacturer recommendation
 - b. Minimum acceptable: 7,000 psi (ASTM D790) at 28 days / 4,600 psi (ASTM C580)
8. Approved Manufacturers/Products.
 - a. Rainstopper
 - i. SG Mastic – Two Part Epoxy
 - b. Epoxytech, LLC
 - i. CPP (Sprayable) – CPP Sprayliner MH
 - c. Warren Environmental
 - i. 301-14 TDS Epoxy Spray System

d. Or Equal

C. Multi-Layered Composite Liner System consisting of the following components:

1. Moisture barrier: Modified polymer.
2. Surface layer: Polyurethane/polymeric blend foam.
3. Final corrosion barrier: Modified polymer.
 - a. Modified polymer: Sprayable, solvent free, two-component polymeric, moisture/chemical barrier specifically developed for corrosive wastewater environment.
4. Ridged structure: Low viscosity two-component polyurethane foam, containing flame retardants.
5. Total thickness of multi-component stress panel liner: Minimum 500 mils.
6. Approved Manufacturers/Products.
 - a. CCI Spectrum, LLC
 - i. Spectrashield Liner Systems
 - b. Nukote Coating Systems
 - i. Nukote AEGIS, Class B System

D. Hybrid Epoxy Mortar Liners

1. Surface Preparation: Allow new concrete to cure for 28 days, verify dryness by ASTM D4263. Abrasive blast to remove laitance, form release agents, curing compounds, sealers, or other contaminants and to achieve a surface profile equivalent to ICRI CSP 5.
2. 100% Solids Standalone Epoxy Mortar lining: Minimum 250 mils.
3. Approved Manufacturers/Products.
 - a. Tenemec
 - i. Series 434 H2S Perm shield
 - b. Epoxytec, LLC
 - i. Mortar Cladliner
 - c. Or Equal

PART 3 – EXECUTION

3.01 MAINTENANCE OF SERVICE

- A. Maintain service usage throughout duration of project, unless otherwise authorized by the Project Manager or Owner. Proper notice shall be provided to the property Owner in advance of any service interruption. No property shall be without service for more than 8 hours.

3.02 MANHOLE PREPARATION

- A. Manhole Preparation: Following approved submittals for rehabilitation products used

1. Divert flow from channel. Bypass pumping shall be considered incidental to the work unless otherwise approved by the Owner. Refer to the bypass pumping section.
2. Prevent extraneous material from entering sewer lines during cleaning and rehabilitation work.
 - a. Filter solids-laden water through an approved de-silting device.
 - i. No material shall be allowed to go downstream. Notify the Project Manager and Owner immediately if any deleterious material was released downstream.
3. Clean interior surface of manhole of debris, dirt, oil, grease, remains of old coating materials, and any other extraneous materials.
4. Pressure wash interior of manholes to remove loose mortar, concrete and debris in accordance with manufacturer requirements or applicable industry standards.
5. Repair irregularities and missing material in manhole forming a final smooth surface.
6. Stop leakage into manhole.

- B. Chemical Grouting for Leakage Control

1. Provide 48-hour notice to Project Manager prior to start work for equipment inspection and testing.
 - a. Allow measurements to be taken.
 - b. Demonstrate acceptable grout volumetric measuring technique.
2. Adjust chemical mixing ratios required for specific application.
 - a. Minimum gel time 30 seconds, or otherwise specified or as directed by Project Manager.
3. Do not block pipes entering/exiting manhole with grout.

- a. Use mirror or camera to confirm pipes are not blocked.
- 4. Do not damage manhole structure during operations.
 - a. Repair damaged locations as directed by Project Manager/Owner in accordance with manufacturer recommendations.
- 5. Protect area of manhole below repair work.
 - a. Do not allow solid material to enter sewage flow.
 - b. Remove protective devices as soon as practical.
- 6. Manhole Sealing: Follow ASTM F2414 and as specified herein.
 - a. Brick manholes.
 - i. Drill only the amount of holes necessary to stop leakage following industry standards and chemical grout manufacturer's recommendations.
 - ii. Do not use curtain of grout sealing method, unless otherwise specified or directed by the Project Manager.
 - iii. Proceed with manhole reconstruction / rehabilitation using processes as specified and in accordance with the manufacturer requirements and applicable industry standards.
 - b. Precast manholes.
 - i. Seal pipe connections as specified by drilling between pipe and manhole opening and injecting grout.
 - ii. If required, seal precast manhole base by drilling holes at leakage points along bench to wall, and in channel.
 - iii. At precast joints, inject grout through holes drilled at leaking joint.
- 7. Hydraulic Water Plugs: Following approved submittals.
 - a. Provide mechanical key by undercutting or square cutting opening and removing loose material.
 - b. Mix, handle, place, and cure material.
 - c. Finish surface as required for other rehabilitation work.

3.03 MANHOLE REHABILITATION

A. Locate Existing Manhole.

1. Using available records, maps, GPS coordinates, metal detectors or other technology and techniques to locate, excavate, and expose manhole. All costs associated with excavating & uncovering buried manholes deeper than one (1) foot to be paid under the respective bid item. If the contractor unable to locate the manhole based on the information available and/or after a minimum of one (1) hour of reasonable effort expended in the field, the contractor shall notify the Project Manager / Owner.

B. Reset/Replace and adjust manhole frame and cover if required:

Refer to Section 02605 and typical details. Refer to Section 01 20 20 regarding the measurement & payment for adjusting manholes, resetting manhole rings & covers, and furnishing & installing new manhole rings & covers.

C. Chemical Grouting: Following ASTM F2414 and as specified herein.

D. Cementitious Reconstruction: Following approved submittals and as specified herein.

(Note: Unless otherwise specified not required for Multi-Layered Composite Liners.)

1. Mix and handle materials.
2. Apply materials using rotary spray equipment or spray gun. Equipment shall be inspected and tested prior to the beginning of work.
3. Apply beginning at bottom of brickwork and work upwards to bottom of frame.
 - a. Seal around pipe connections and steps.
4. Do not allow material to enter sewage flow.
5. Apply.
 - a. Minimum applied thickness: 500 mils (1/2").
 - b. Confirm with pictures and gauge.
6. Trowel and brush for smooth finish.
7. Cure using curing compound when recommended by manufacturer.
 - a. Do not allow flow in manhole or traffic over manhole, until manufacturer's minimum cure times have been achieved.
8. Where necessary cementitious liner must be completed with the application of an epoxy-

based material at a minimum thickness of 150 mils.

E. Manhole Liners: Following approved submittals.

1. Epoxy Liners.
 - a. Mix and apply material.
 - i. Sagging of material is not permitted.
 - b. Seal around pipe connections and steps.
 - c. Cure.
 - d. Finished liner: Forms monolithic structure from manhole frame to bottom of structure walls. Lining of invert not required unless otherwise specified or to comply with the manufacturer's recommendation.
2. Liner to be attached to wall using mastic.
 - a. Apply mastic primer to manhole wall and cure.
 - b. Apply mastic to primed manhole wall.
 - c. Apply liner to mastic.
 - i. Embed anchoring extensions in mastic.
 - ii. Wrinkling of liner not permitted.
 - d. Finish liner seams.
 - e. Finished liner: Forms monolithic structure from manhole frame to bottom of structure walls. Lining of invert not required unless otherwise specified or to comply with the manufacturer's recommendation.
3. Multi-Layered Composite Liner.
 - a. Surface Preparation: Follow manufacturer's recommendations and applicable industry standards for cleaning and preparation of structure surfacing prior to application.
 - b. Application procedures: Follow manufacturer's recommendations and product technical data sheets and SDS for handling, mixing, environmental controls during application, safety, and application equipment.
 - c. Spray equipment: Specifically designed to accurately ratio and apply liner system.
 - d. Affix permanent identification with date of work performed, to structure in readily visible location.
4. Hybrid Epoxy Liner.
 - a. Surface Preparation: Follow manufacturer's recommendations and applicable industry standards for cleaning and preparation of structure surfacing prior to application.
 - b. Application procedures: Follow manufacturer's recommendations and product technical data sheets and SDS for handling, mixing, environmental controls during

- application, safety, and application equipment.
 - c. Mix components to required ratios and spray apply epoxy modified mortar per manufacturer's requirements.
 - d. Application equipment shall meet all the manufacturer's recommendations.
 - e. Finish with trowel and allow to cure per manufacturer's recommendations.
- F. All exposed reinforcement shall be treated with an epoxy-based, rapid-setting, rust inhibiting primer and allowed to cure in accordance with the manufacturer's recommendations.
- G. Trim and seal incoming laterals and pipes.
- H. Remove all construction and cleaning debris from site and dispose of properly at certified waste disposal facility.

3.04 QUALITY ASSURANCE INSPECTION & TESTING

A. Field Inspection & Testing.

1. Make available all locations and phases of the work for access by the Project Manager/Owner or other personnel designated representative as specified herein.
2. The installer shall notify the Project Manager in advance to perform equipment inspections & testing as specified herein prior to performing work.
3. Inspect all material upon receipt to ensure all are supplied by the approved manufacturer and properly labeled, stored, and in conformance with all other manufacturer's requirements and as specified herein.
4. The installer shall visually inspect the work continually in the field to ensure that the products and/or liner system is being installed as specified herein, or otherwise required.
5. Any nonconforming work or damage to materials during installation shall be brought to the attention of the Project Manager and shall be corrected as recommended by the manufacturer or as directed by the Project Manager/Owner.
6. The installer shall inform the Project Manager of the overall progress and the quality of the work through daily reports.
7. The installer shall provide pre-&post construction photographs with daily reports as specified herein.
8. The installer shall visually inspect the work after installation in the presence of the Project Manager, Owner, and/or designated field representative to determine conformance with the specifications and referenced standard documents.

9. All surfaces to be inspected shall be properly cleaned and prepared to permit for close visual inspection.
10. If necessary, provide flow-through plugs for the duration needed to adequately perform the field inspection and any testing.
11. Verify no inflow or infiltration and stoppage of all leaks.
12. Verify services are reinstated and unobstructed.
13. Verify curing of surfacing materials in conformance with manufacturer's recommendations.
14. Perform visual inspections of coating & lining areas to detect holidays. Upon full cure the coating or lining material shall be tested by high voltage spark detection in accordance with NACE RP0188 and/or per manufacturer's recommendation to verify a pin-hole free surface and identify any discontinuities. Voltage shall be set at 11,000 volts, or minimum required based on thickness.
15. Any and all deficiencies or defective work not in compliance with these specifications and/or manufacturer requirements shall be marked for repair or removal/replacement by the installer at no additional cost.
16. For grout and concrete test for compressive strength following ASTM C109.
17. The installer shall collect, label, and store representative product samples as required by the manufacturer and applicable standards per approved product submittals.
 - a. Additional product samples may be required as directed.
 - b. Store and maintain product samples until the contract performance bond has expired.
 - c. Ensure and verify required testing is performed by an approved certified laboratory.

3.05 WARRANTY INSPECTIONS

- A. Owner or Owner's representative will conduct visual inspection within three (3) months prior to expiration of warranty to determine integrity of rehabilitation materials and watertightness.
 1. Complete post inspection during first high groundwater period (spring or fall) following acceptance of work.
 2. Contractor will accompany Project Manager or designated representative on inspections.

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3. Inspect 25 percent minimum of manholes rehabilitated at locations selected by the Project Manager or Owner.
 - a. Infiltration and Inflow: None
 - b. Structural Repairs: Sound
 - c. If more than one manhole fails warranty inspection, inspect all manholes with similar characteristics.
 - d. Repair defects in accordance with manufacturer warranty and recommendations.

(End of Section)

SECTION 33 05 23.16
UTILITY PIPE JACKING

PART 1 – GENERAL

1.01 RELATED DOCUMENTS

- A. This information is intended to supplement the Louisiana Department of Transportation (DOTD) Standard Specifications for Roads and Bridges, most recent edition, which is incorporated by reference. If a conflict between any provision of these specifications and any reference specification should arise, the most stringent provision shall apply.

1.02 SECTION INCLUDES

- A. Steel encasement pipe for force mains.
- B. Pipe and appurtenances within steel encasement pipe.

1.03 REGULATORY REQUIREMENTS

- A. The Owner shall secure necessary permits. Work is not to begin before permit is issued.
- B. The Contractor shall be responsible for meeting the requirements of the governing authority, which may include approval of equipment to be used for installation of the encasement pipe, and for notifying the governing authority prior to start of Work.
- C. The Owner and Engineer shall not be responsible for additional cost to the Contractor for failure to meet governing authorities' requirements.

PART 2 – PRODUCTS

2.01 STEEL ENCASEMENT PIPE

- A. Comply with ASTM A139, Grade B.
- B. Minimum Tensile Strength: 60,000 psi.
- C. Minimum Yield Strength: 35,000 psi.
- D. Wall Thickness: To be approved by engineer prior to installation.
- E. Exterior Coating: Bituminous.
- F. Joints: Fully welded on circumference.

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2.02 FORCE MAIN PIPE

A. Follow Section 02 70 00.

2.03 PIPE BLOCKING AND APPURTENANCES

A. Pipe Blocking: Casing chocks with a maximum of 1 inch between blocking and steel encasement pipe wall; chock width and spacing as instructed by manufacturer.

1. Manufacturers:

- a. Advance Products & Systems, Inc.
- b. Cascade Waterworks Manufacturing Company.
- c. Power Seal Pipeline Products Corporation.
- d. Or as approved.

2. Materials: Polyethylene or stainless steel with a liner and UHMW polymer plastic runners.

B. Fill: Grout, Sand, Sand and cement mixture as approved by governing authority.

C. End Seals: Wrap around type with sealed joint.

1. Manufacturers:

- a. Advance Products & Systems, Inc., Model AW.
- b. Cascade Waterworks Manufacturing Company, Style CCES.
- c. Or as approved.

2. Materials: Synthetic rubber seal and Type 304 stainless steel bands.

2.04 PIPELINE MARKERS

A. Prominent, durable, weather-proof signs showing name and address of the Owner contents of pipe, pressure in pipe, pipe depth below grade at point of sign, and an emergency telephone number, all as acceptable to governing authority.

PART 3 – EXECUTION

3.01 PREPARATION

A. Apply exterior coating to steel encasement pipe a minimum of 48 hours prior to pipe installation.

B. Notify governing authority.

3.02 STEEL ENCASEMENT PIPE INSTALLATION

A. Boring and Jacking:

1. Install encasement pipe by boring and jacking to line and grade shown. A minimum distance of 5 feet from the edge of pavement is required.
2. Excavate bore pit and receiving pit; follow Section 31 23 00. Shore as required by Laws and Regulations.
3. Boring operations shall be continuous; boring auger never to be more than 1 inch ahead of casing pipe during boring operations.
4. Backfill Pits: Follow Section 31 23 00.

3.03 MAIN LINE PIPE INSTALLATION

- A. Install main line pipe within encasement pipe; follow Section 02 70 00 in so far as applicable.
- B. Block pipe in place using casing chocks; install at intervals as instructed by manufacturer (minimum three chocks each pipe); maintain proposed grade.
- C. Bulkhead each end of encasement pipe. Install a small pipe to drain any leakage within encasement pipe.
- D. Provide end seals; one at each end of encasement pipe.

(End of Section)

SECTION 33 05 71
SEWER CLEAN-OUTS

PART 1 – GENERAL

1.01 REQUIREMENTS

When ordered, the Contractor will be required to install service lateral clean-outs. A sewer clean-out installation shall consist of all pipe, fittings, adopters, castings, and or cover boxes. Sewer clean-outs shall be installed as shown on typical details. The locations to be installed will be indicated on the work order or as directed by the Owner's Representative.

PART 2 – PRODUCTS

2.01 APPROVED PIPE AND FITTINGS

A. Refer to respective sections for sewer pipe & fittings – PVC, Ductile Iron, HDPE, etc.

2.02 CLEAN-OUT FRAME & COVER

A. Vulcan V-8504, Deeter Foundry Item No. 1805, Neenah Foundry NR-6003, or approved equal. Verify with Owner prior to ordering & installation.

2.03 CLEAN-OUT CONCRETE COLLAR

A. Concrete collar shall have a minimum strength of 3,000 psi. The collar shall be a minimum 4" thick and extend at least 12" from the center of cleanout. The concrete collar shall be considered incidental to the work and included in the respective clean-out pay item.

PART 3 – EXECUTION

- A. Sewer clean-outs are to be installed as indicated on the typical details. Sewer clean-out piping is to be installed from the depth of the service lateral to the existing grade line, so that the sewer clean-out plug fitting and cover are flush with the grade line.
- B. If a sewer cleanout is located in a drive or walk, the box & lid shall be isolated with expansion joints.

(End of Section)

SECTION 33 31 00
SEWER REPLACEMENT PIPE AND FITTINGS

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. The Contractor shall furnish all labor, materials, equipment, and incidentals required to complete a "Point Repair" using materials described herein, and being compatible to the removed materials. All force main repairs, Polyvinyl Chloride (PVC) or Ductile Iron, shall have restrained joints, as specified herein.

1.02 SUBMITTALS

- A. The Contractor shall submit to the Owner's Representative, within ten days after signing the contract, a list of materials to be furnished and the names of his suppliers.
- B. If materials, indicated in these specifications, are not commonly stocked, the Contractor shall state the approximate time required to obtain these materials.
- C. The Contractor shall submit and shall comply with pipe manufacturer's recommendations for handling, storing, and installing pipe and fittings.
- D. The Contractor shall submit pipe manufacturer's certification of compliance with these specifications.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. PVC Pipe shall conform with Section 02 62 20.
- B. Ductile Iron Pipe and Fittings shall conform with Section 02 61 50.

2.02 IDENTIFICATION

- A. Each length of pipe and each fitting shall be marked with the name of manufacturer, size, and class. All gaskets shall be marked with the name of manufacturer, size, and proper insertion direction.

2.03 MANHOLE CONNECTIONS

- A. Pipe stubs for all manhole connections shall not exceed two feet (2') in length. Caps shall be furnished, where required.

2.04 SERVICE SADDLES

- A. Service saddle body shall be entirely cast from ductile (nodular) iron, meeting or exceeding ASTM A-536, Grade 65-45-12. All ductile iron service saddle bodies shall be coated with fusion bonded black nylon, 10-12 mils thick with a dielectric strength of 1,000 v/mil and NSF 61 Certified.
- B. Straps shall be Type 304 (18-8) heavy gauge Stainless Steel, per ASTM A-240. Straps shall be two inches wide. GMAW and GTAW welds shall be used to secure the strap to the threaded bolts. These welds shall be fully passivated for corrosion resistance. "U-Bolt" Straps shall not be used under any circumstance.
- C. Gaskets shall be made from Nitrile Butadiene Rubber (NBR) compounded for water and sewer service and a tolerance of petroleum products in accordance with ASTM D-2000 MBC 610 and NSF 61 Certified.
- D. Washers shall be flat, Type 304 (18-8) heavy gauge Stainless Steel.
- E. Bolts and Nuts: For saddle sizes 1½" through 3", use ½" UNC roll thread Type 304 (18-8) Stainless Steel bolts with heavy hex nuts. For saddle sizes 4" and above, use 5/8" UNC roll thread Type 304 (18-8) Stainless Steel bolts with heavy hex nuts. Rods for bolts are per ASTM A-240, and nuts are per ASTM A-194. Nuts shall be coated to prevent galling. All welds shall be fully passivated for enhanced corrosion resistance.

2.05 BRASS NPPLS

- A. Brass Nipples shall conform to ASTM B687-88.

PART 3 – EXECUTION

3.01 LAYING POLYVINYL CHLORIDE (PVC) PIPE AND FITTINGS

- A. Laying PVC Pipe and Fittings shall conform with Section 02 62 20.

3.02 LAYING DUCTILE IRON PIPE AND FITTINGS

- A. Laying Ductile Iron Pipe and Fittings shall conform with Section 02 61 50.

3.03 MARKER TAPE

- A. Marker tape is to be installed on all lines. The color is to be yellow with "CAUTION -- SEWER LINE BURIED BELOW" written on it. The tape is to be two inches (2") wide, and located between the bedding and the backfill along the centerline of pipe.

3.04 PIPE COUPLINGS

- A. Repairs made to similar pipe shall be accomplished with the use of similar repair couplings or spool pieces. Repairs made to dissimilar gravity sewer line pipe (i.e., PVC to clay, transited or other) shall be accomplished with the use of flexible elastomeric P.V.C. pipe couplings or adapters, as manufactured by Fernco, or approved equal. All pipe couplings shall attach to the existing and replacement pipes by means of stainless steel bands with screw and housing, to assure a positive seal around the pipe. All flexible couplings shall be installed with a stainless steel shear ring. Should stainless shear rings not be furnished with flexible couplings, furnished couplings must be approved by the Owner's Representative prior to installation.

(End of Section)

SECTION 33 32 11
BYPASS PUMPING

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. This section shall include furnishing all equipment, labor, and materials necessary to setup, operate, and maintain bypass pumping. The Project Manager will determine the quantities and disposition of water to be pumped. The Contractor shall provide the necessary equipment to meet these minimum requirements. By-pass pumping for 4-inch pumps or less will be considered incidental to the work and will have no separate payment.

1.02 PLUGGING OR BLOCKING

- A. The Contractor is responsible to provide the necessary plug or blocking to isolate the manhole where work is to be performed by plugging incoming sewer lines as needed. The plug shall be inserted into the upstream line at the manhole where the work is to be performed. The plug shall be so designed that any portion of sewer flow can be released through the line. After all work has been completed, the plug and all blocking shall be removed from the manhole.

1.03 PUMPING AND BYPASSING

- A. When pumping/bypassing is required, the Contractor shall supply the necessary pumps, conduits, and other equipment to divert the flow of wastewater around the work site. Bypassed sewerage shall be diverted to the system below the work site, not into the storm drainage system. The bypass system shall be of sufficient capacity to handle existing flows, plus additional flow that may occur during periods of rain.
- B. For projects which are considered to last longer than one normal workday, only submersible or above ground pumps with electric motors will be acceptable without prior approval of the Director of Utilities. The Contractor shall be responsible for supplying the required electrical feeds, electrical power, labor, and supervision to set up and operate the pumping and by-pass system.
- C. The Contractor must take every precaution to ensure that the plugging and bypassing of sewer flow does not cause flooding or damage to public or private property being served by the sewers involved.
- D. Prior to construction the Contractor shall submit a bypass pumping plan showing:
 - 1. Intake manhole
 - 2. Receiving manhole
 - 3. Pipe layout
 - 4. Backup equipment
 - 5. Procedures to monitor upstream lines for backup impacts.
 - 6. Procedures for setup and breakdown of pumping operations

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PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

(End of Section)

SECTION 40 05 62
PLUG VALVES

PART 1 – GENERAL

1.01 SUMMARY

- A. This section includes eccentric plug valves for sanitary sewer applications.

1.02 REFERENCES

- A. AWWA C517 Specification for Eccentric Plug Valves.
- B. MSS SP-25 Specification for Standard Marking System for Valves, Fittings, Flanges, and Unions.

1.03 QUALITY ASSURANCE

- A. Manufacturer shall demonstrate a minimum of ten (10) years of experience in the manufacturing of plug valves.
- B. Valves shall be factory tested in accordance with AWWA C517.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver valves with protective covers on all openings.
- B. Store valves to prevent damage and exposure to contaminants.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. The manufacturer for plug valves shall be Val-Matic or approved equal.

2.02 MATERIALS

- A. Valve bodies and covers shall be constructed of ASTM A126 Class B.
- B. Valve plugs shall be of one-piece ductile iron construction and conform to ASTM A536.
- C. Valve seats shall be a welded overlay of 95% pure nickel applied directly to the body.
- D. Valves shall have radial shaft bearings constructed of self-lubricating Type 316 stainless steel. The thrust bearings shall be PTFE. Cover bolts shall be corrosion resistant with zinc plating.

- E. Flanged ends shall conform to ASME B16.1 and mechanical joint ends shall conform to AWWA C111.

2.03 PERFORMANCE REQUIREMENTS

A. Design:

1. Valves shall have fully open port areas of not less than 100% of pipe area.
2. Valves shall be designed to withstand working pressures up to 175 psig.

B. Coatings:

1. Interior and exterior epoxy coating shall conform to AWWA C550.

2.04 ACCESSORIES

- A. Actuators shall be lever or gear actuators that include a position indicator. They shall include a optional buried service operator with a sealed enclosure. Bolts, nuts, and washers shall be Type 316 stainless steel conforming to ASTM F593 and ASTM F594. Gear reducers shall be traveling nut or worm-gear type rated for a maximum torque of at least 450 ft-lbs.

2.05 FABRICATION

- A. Valve construction shall ensure a bubble-tight shutoff in both directions.

PART 3 – EXECUTION

3.01 INSTALLATION

- A. Ensure proper alignment and support to prevent stress on valve connections.

3.02 FIELD QUALITY CONTROL

- A. The contractor shall perform hydrostatic testing of valves after installation in accordance with AWWA C517. Verify proper operation and adjust actuators as needed.

3.03 CLEANING

- A. The contractor shall clean and flush valve and piping system to remove debris prior to commissioning.

3.04 PROTECTION

- A. The contractor shall protect installed valves from damage until commissioning.

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(End of Section)

SECTION 40 05 78.21
AIR RELEASE VALVES

PART 1 – GENERAL

1.01 SCOPE OF WORK

- A. Furnish all labor, materials, equipment, and incidentals required to install, complete, and ready for operation, air release valves, as specified herein.

1.02 DESCRIPTION OF SYSTEM

- A. All of the equipment and materials specified herein are intended to be standard for use in controlling the flow of wastewater.

1.03 QUALIFICATIONS

- A. All valves shall be products of well established, reputable firms who are fully experienced, reputable, and qualified in the manufacture of the particular equipment to be furnished. The equipment shall be designed, constructed, and installed in accordance with standard practices and methods, and shall comply with these specifications, as applicable.

1.04 TOOLS

- A. Special tools, if required for normal operation and maintenance, shall be supplied with the equipment.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. Air Release Valves

1. Sewerage air and vacuum release valve to be short pattern design with an overall height not to exceed 19 inches and have a conical shaped body with interior volume that prevents liquid contact with the air release mechanism. The body material shall be of corrosion resistant reinforced nylon, or 316 stainless steel with 316 stainless steel body clamp to provide quick disassembly for cleaning or repair. Internal float to be constructed of foamed polypropylene, with stainless steel shaft and fasteners.
2. The air release mechanism shall be a non-shock type resilient roll seal that provides positive open and close operation, with leak free sealing. The air release device with integral flush connection shall be constructed of corrosion resistant reinforced plastics. The air and vacuum release valve working pressure shall be rated to 145 psi and tested to 230 psi.
3. Valve shall be equipped with a 1/4" ball valve to drain valve body and back-flushing

during maintenance.

4. The air release shall be the following A.R.I. models, or approved equal:

- a. Force Mains 4"-16" Dia.: D-025
- b. Force Mains 18"-24" Dia.: D-023
- c. Force Mains 30" or greater: D-026
- d. Or, as recommended by manufacturer

PART 3 – EXECUTION

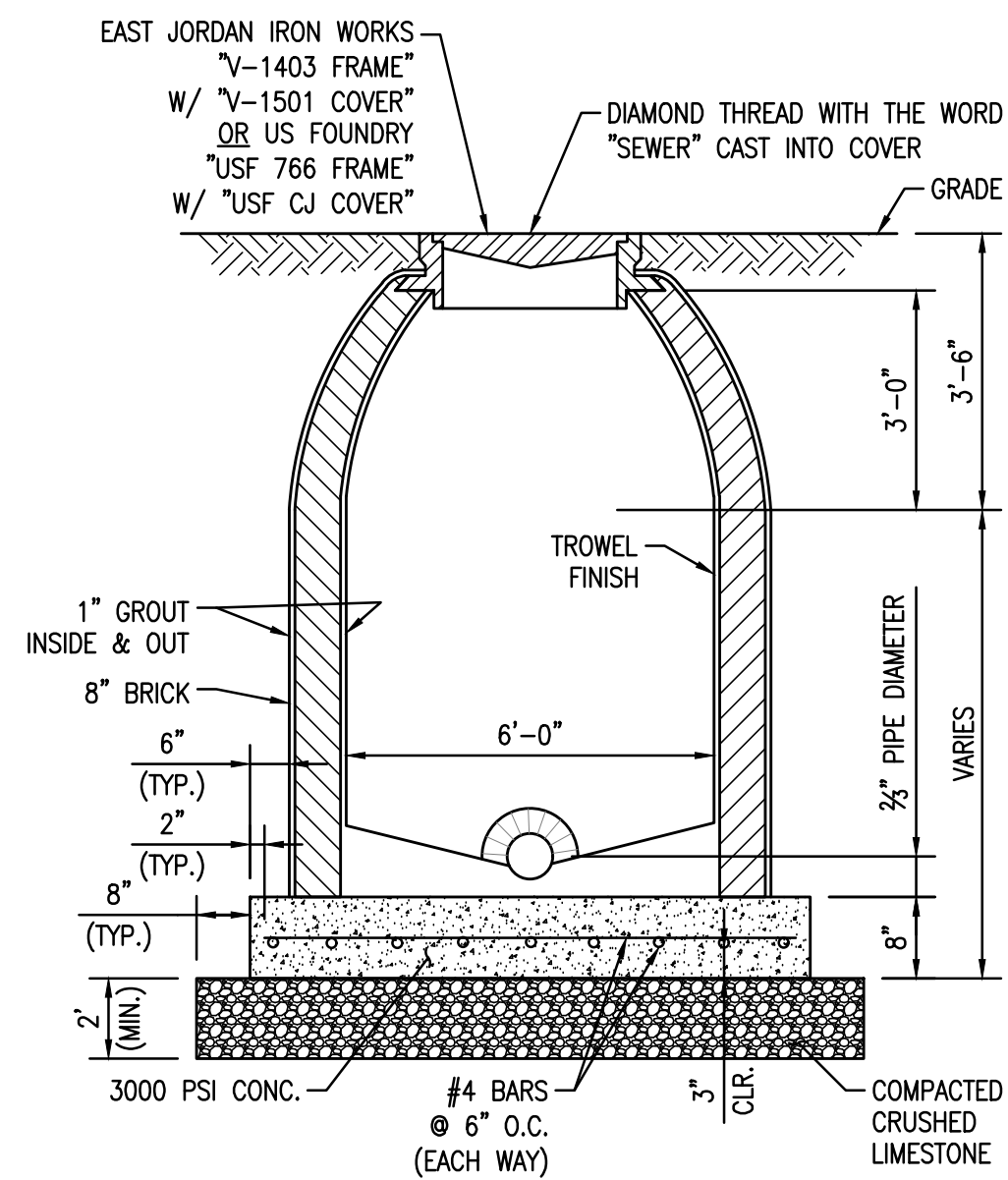
3.01 INSTALLATION

- A. After installation, all valves shall be tested at least one (1) hour at the working pressure corresponding to the class of pipe, unless a different test pressure is specified. If any joint proves to be defective, it shall be repaired to the satisfaction of the Owner's Representative.

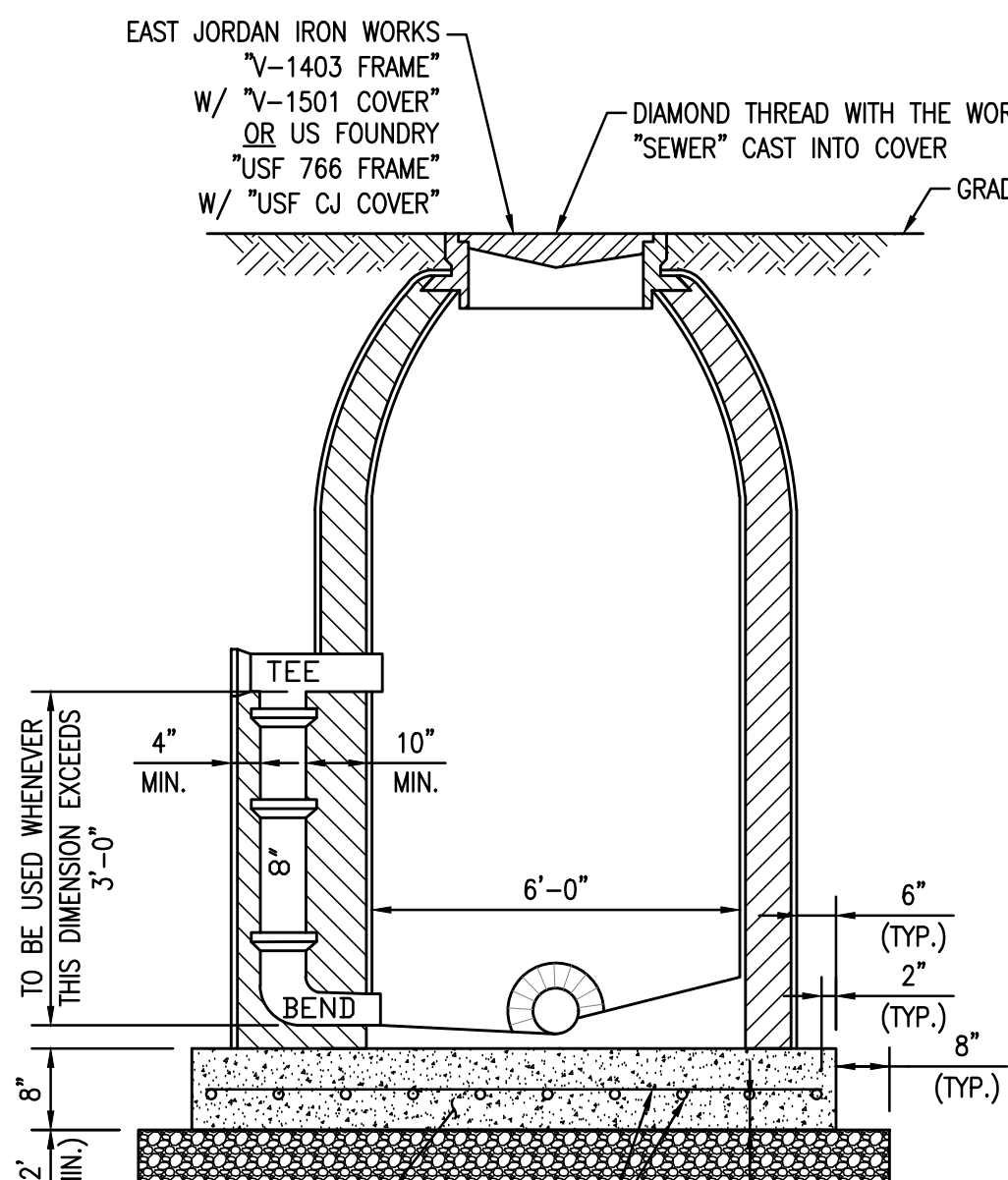
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APPENDIX A

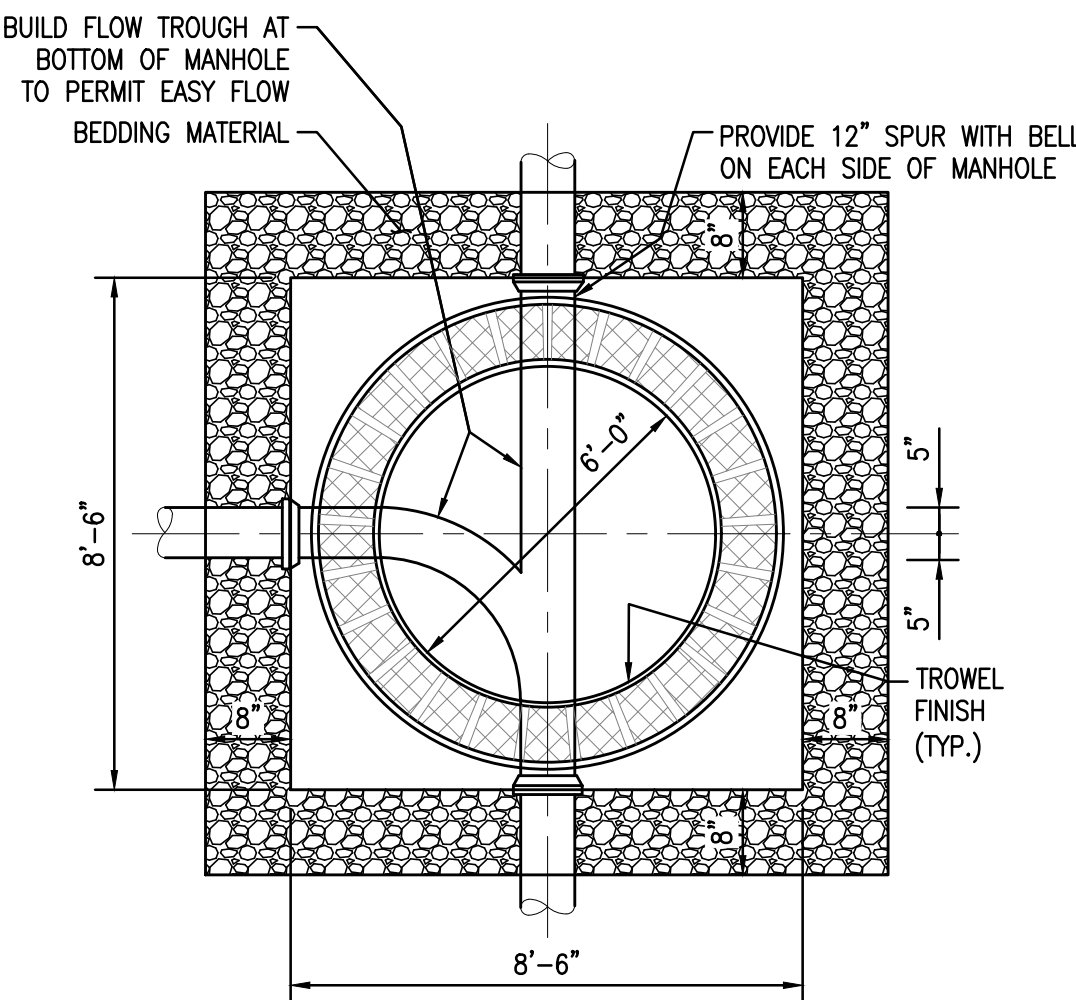
TYPICAL DETAILS



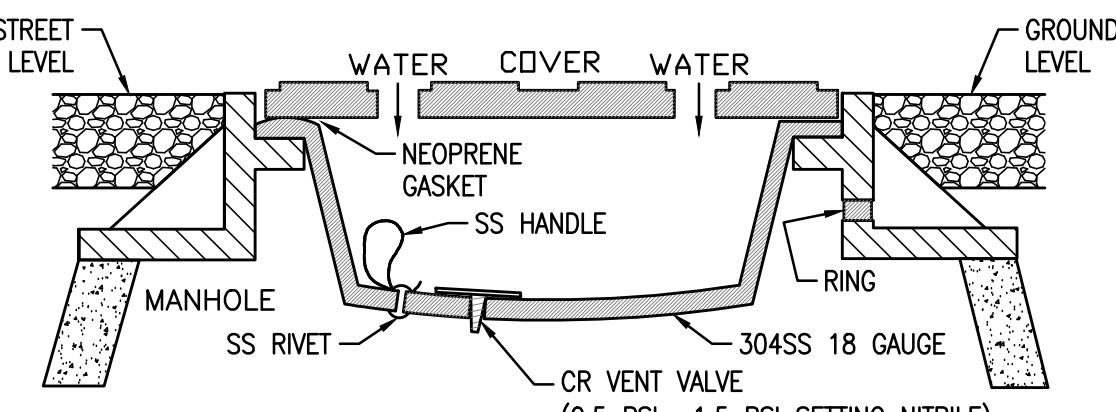
STANDARD BRICK SEWER MANHOLE
SCALE: N.T.S.



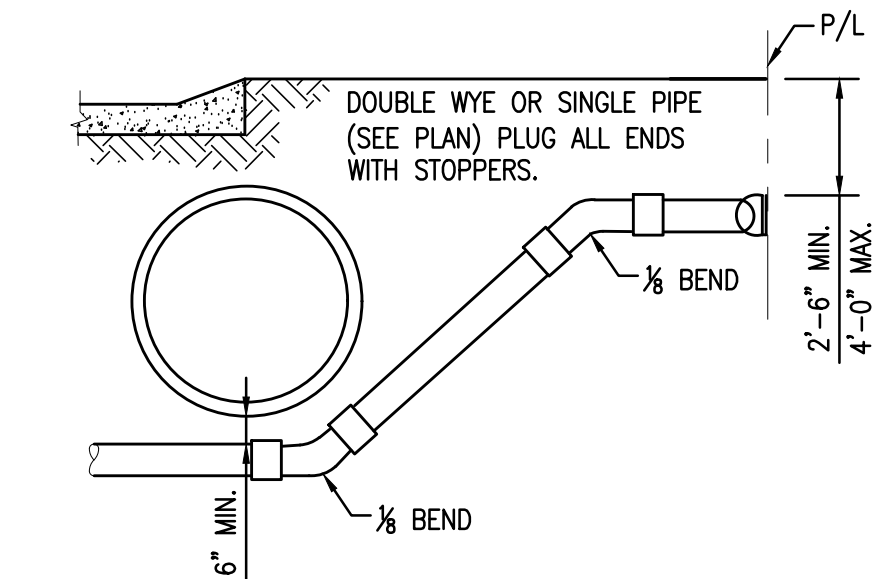
DROP BRICK SEWER MANHOLE
SCALE: N.T.S.



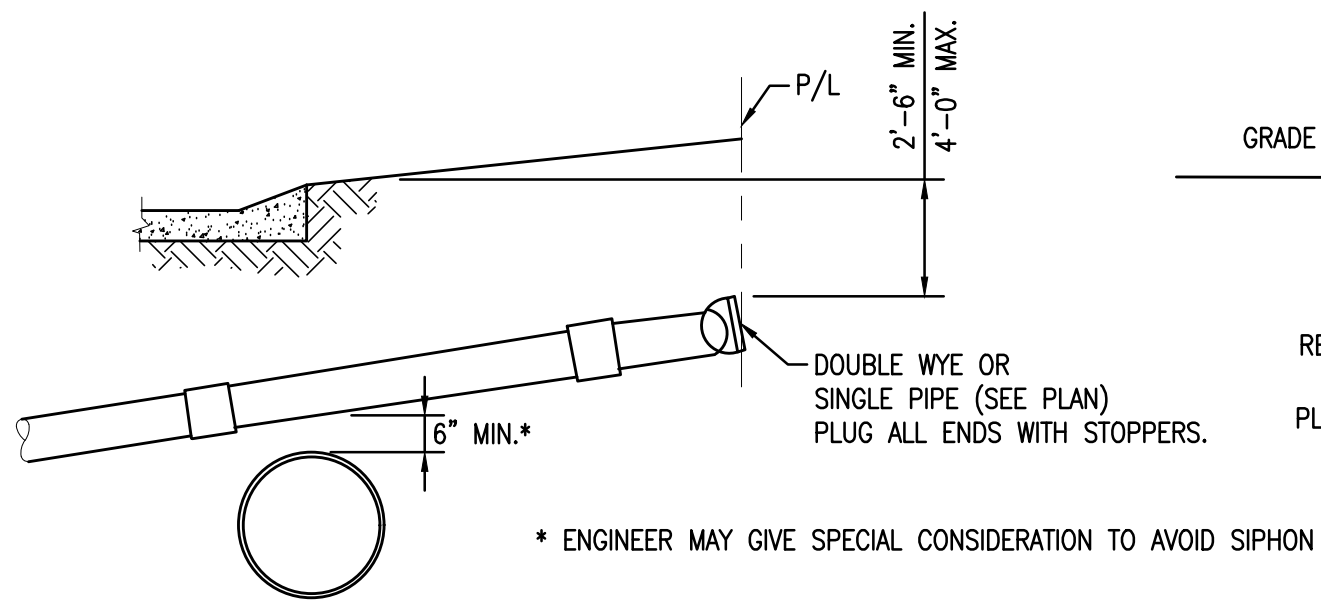
TYPICAL SEWER MANHOLE BOTTOM
SCALE: N.T.S.



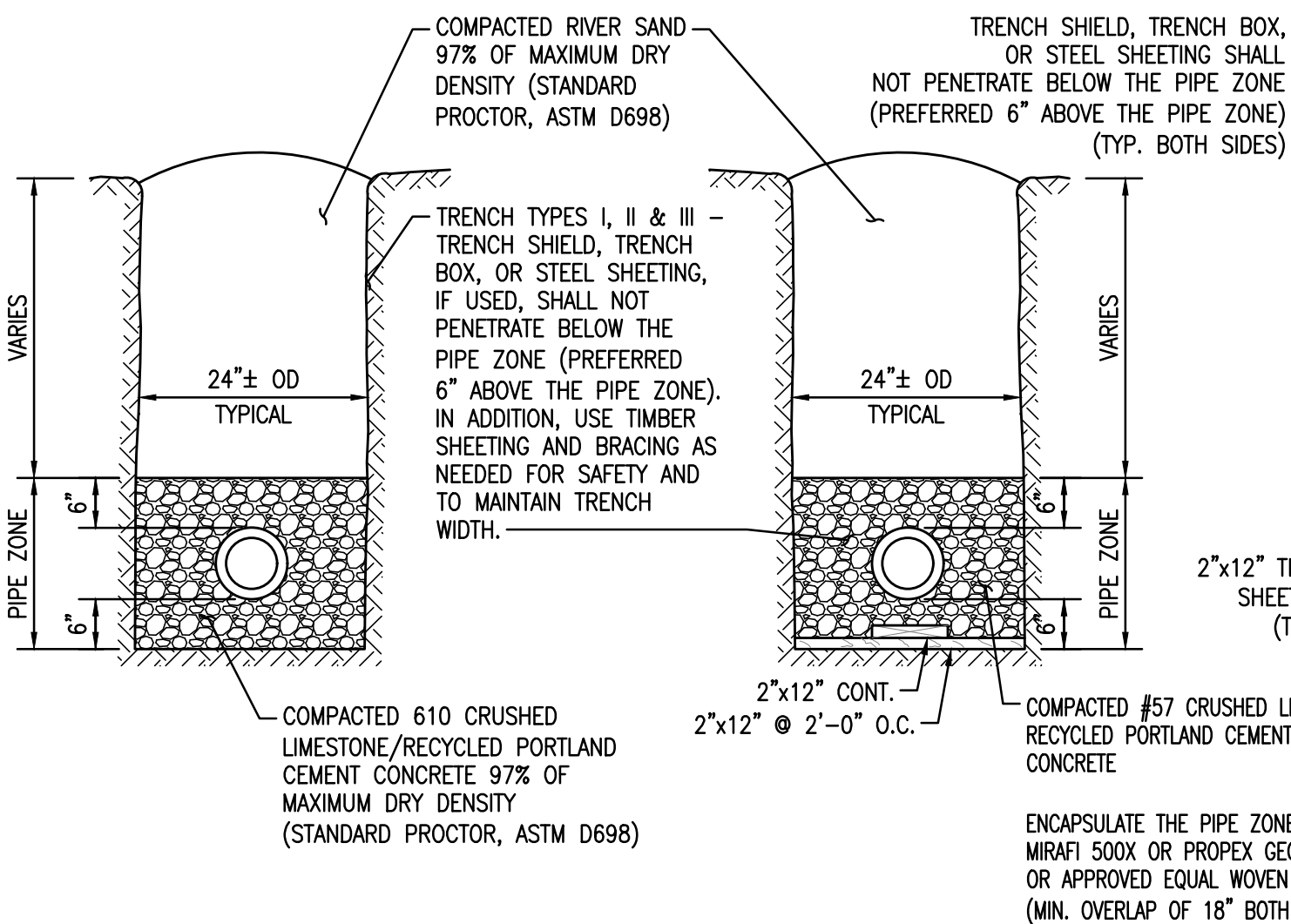
LIFESAVER STAINLESS STEEL STOPPER
SCALE: N.T.S.



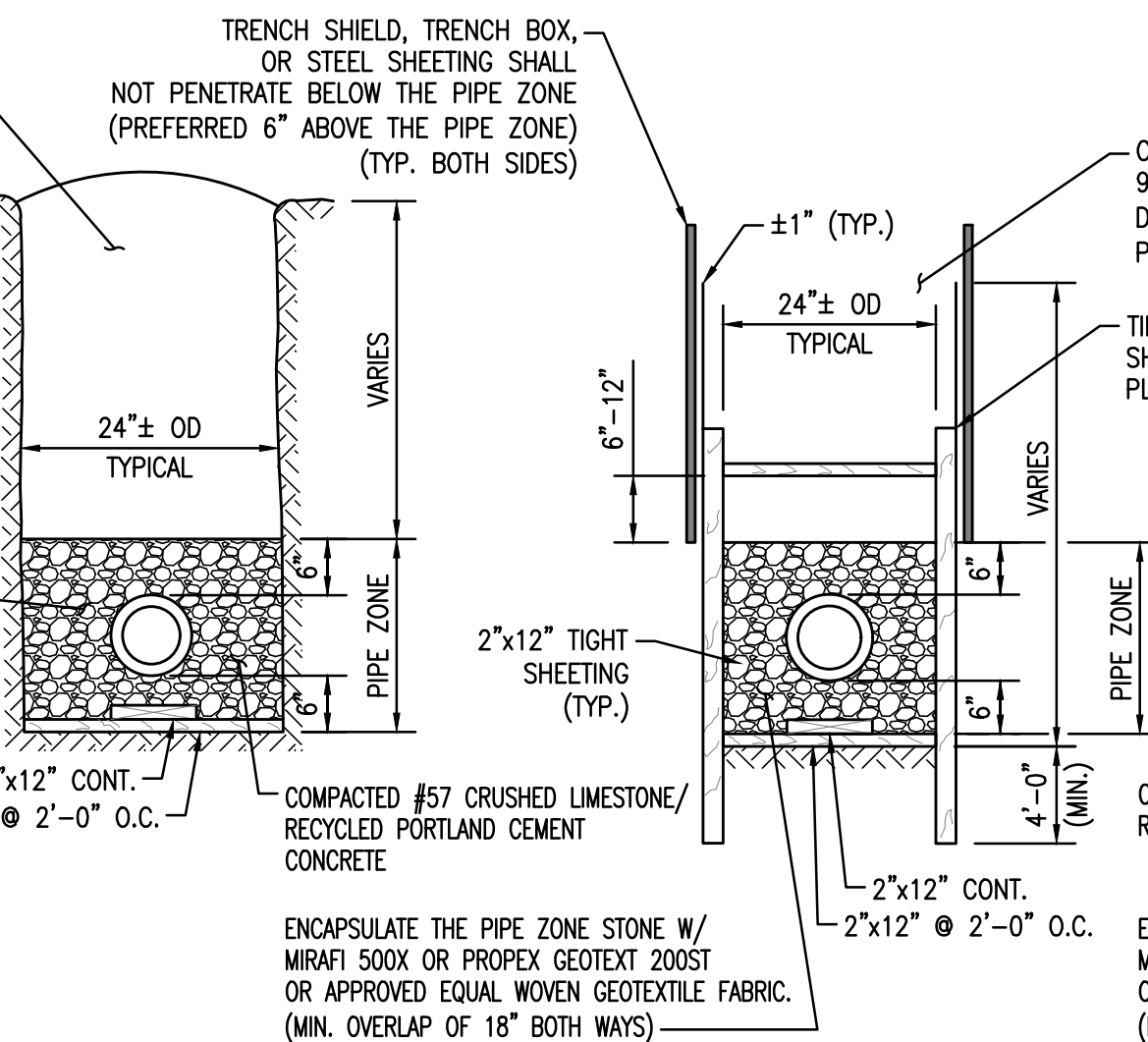
HOUSE CONNECTION UNDER DEEP DRAIN
SCALE: N.T.S.



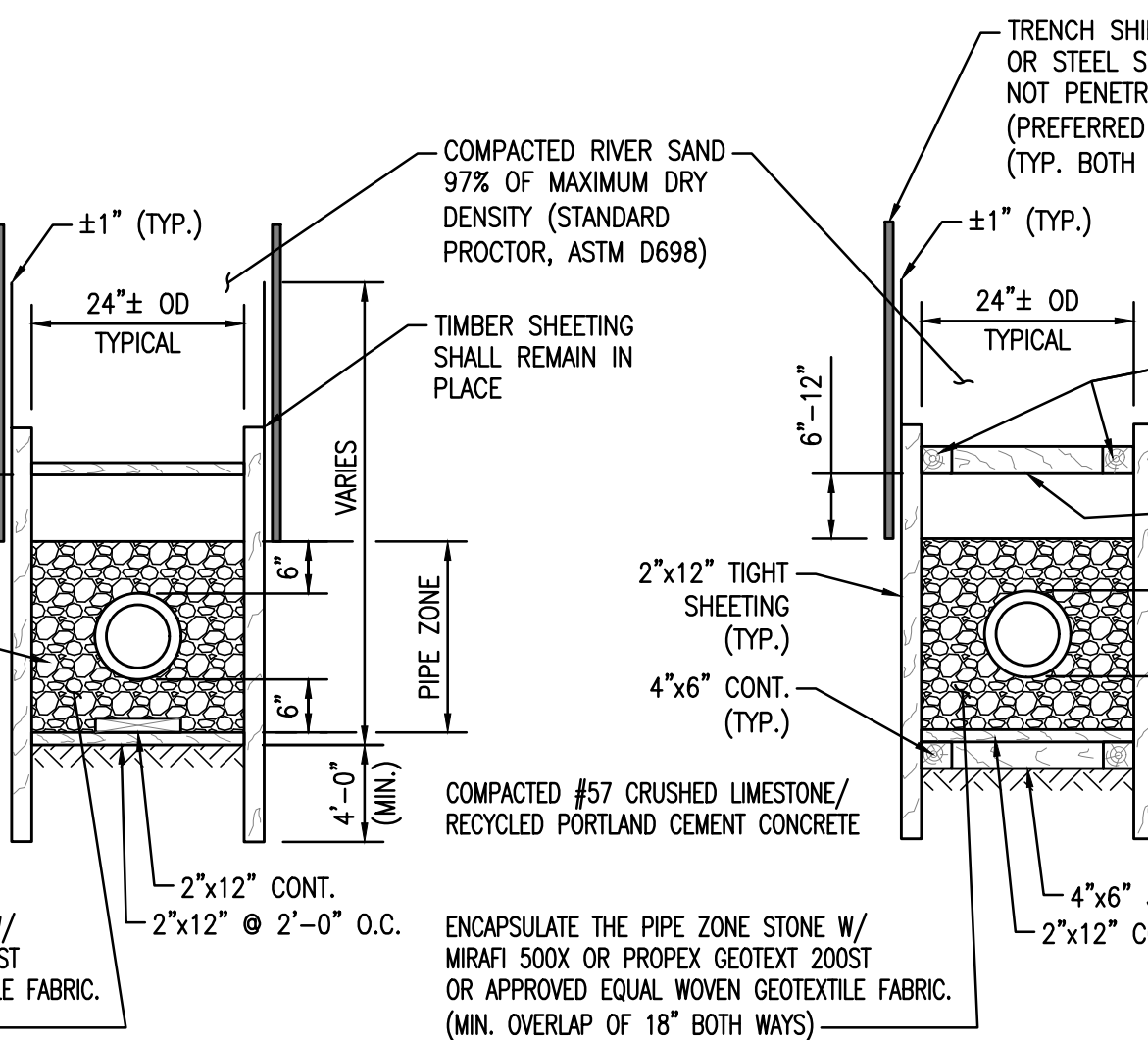
HOUSE CONNECTION OVER DRAIN
SCALE: N.T.S.



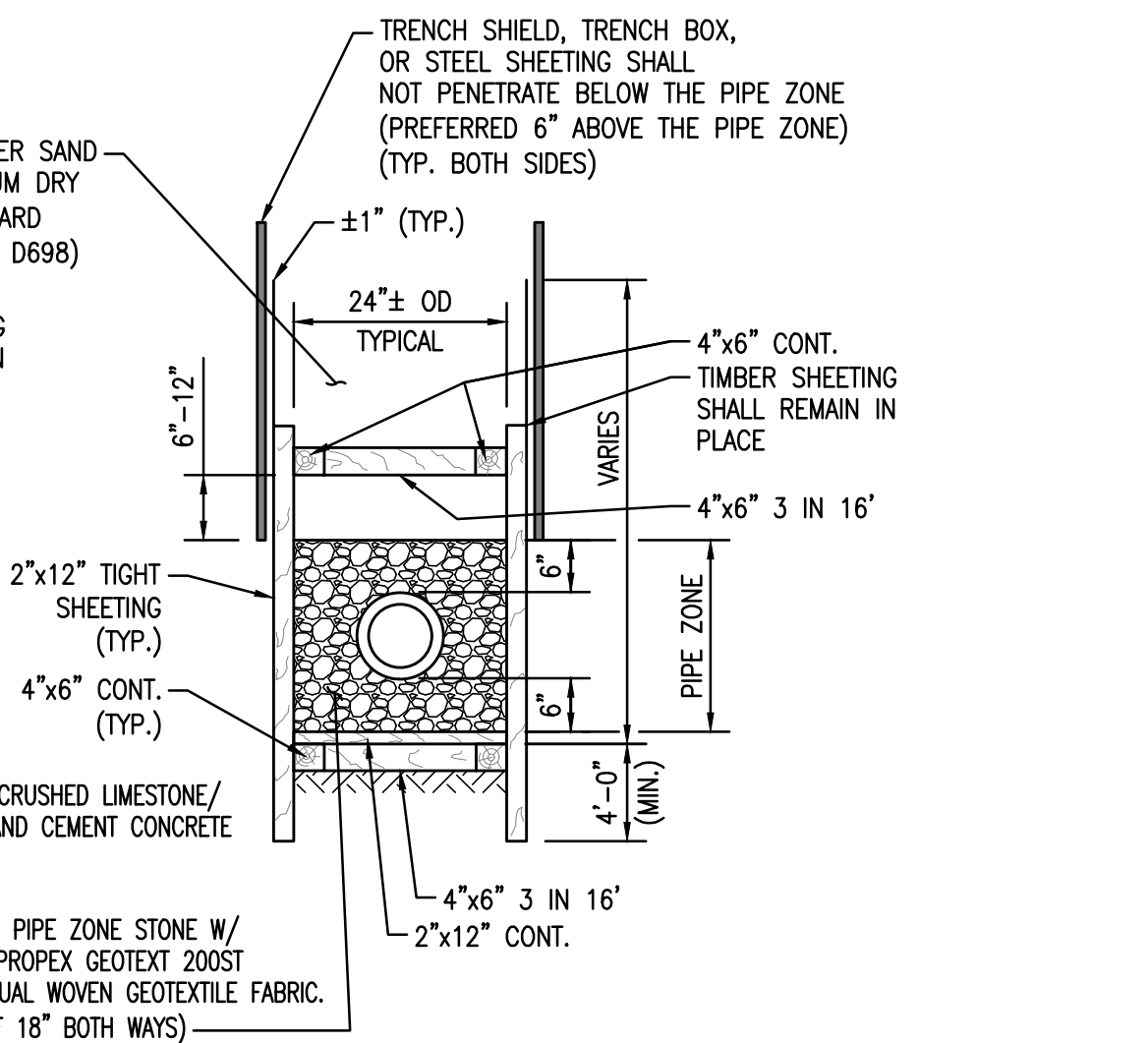
TRENCH TYPE I & II
SCALE: N.T.S.



TRENCH TYPE III
SCALE: N.T.S.



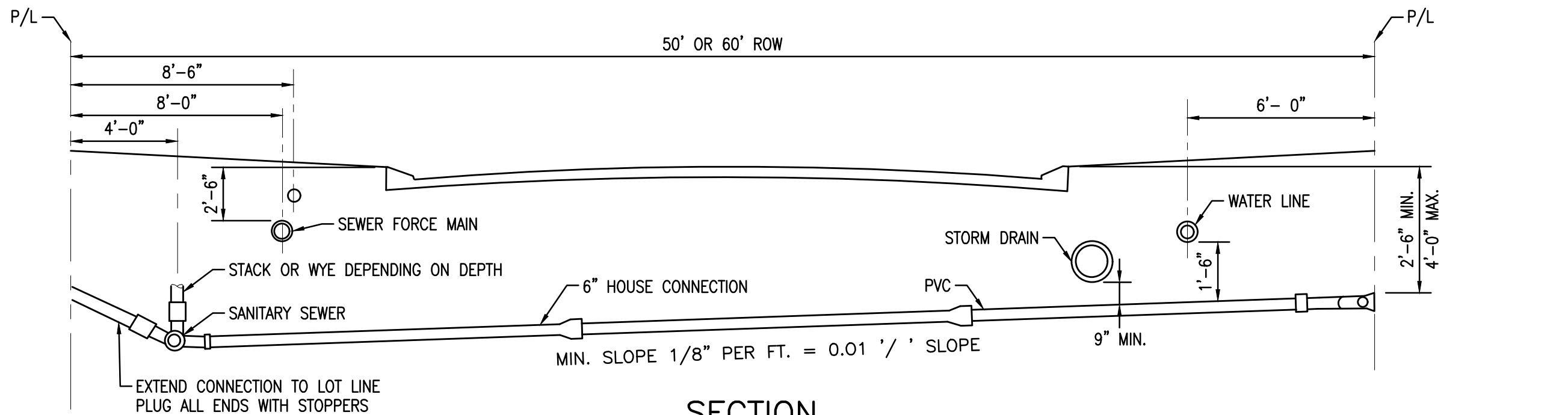
TRENCH TYPE IV
SCALE: N.T.S.



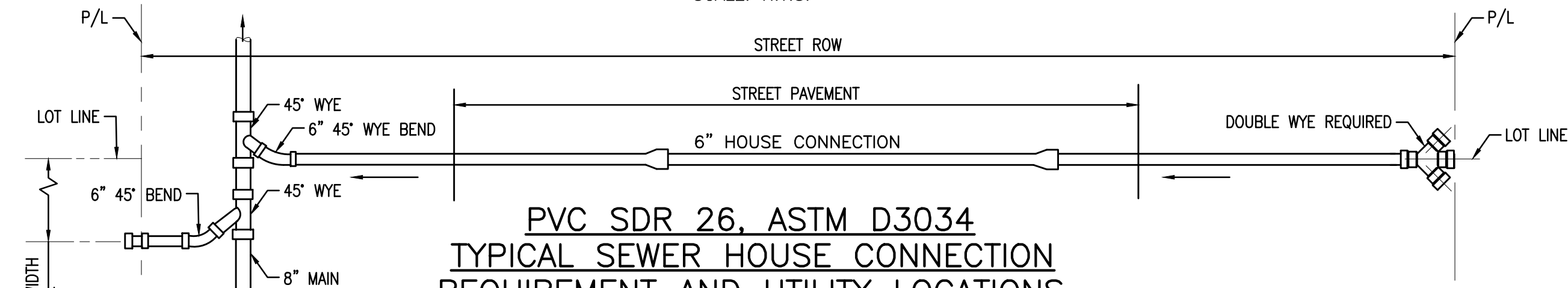
TRENCH TYPE V
SCALE: N.T.S.

SANITARY SEWER STANDARD TRENCH DETAILS
SCALE: N.T.S.

NOTE:
TIMBER SHEETING AND BRACING SHOWN ABOVE ARE MIN. REQUIREMENTS TO CONTROL THE WIDTH OF THE
EXCAVATED TRENCH AND TO SAFEGUARD THE INTEGRITY OF THE SEWER FOUNDATION, BEDDING AND BACKFILL.
IN ADDITION TO THESE MIN. REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND
BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

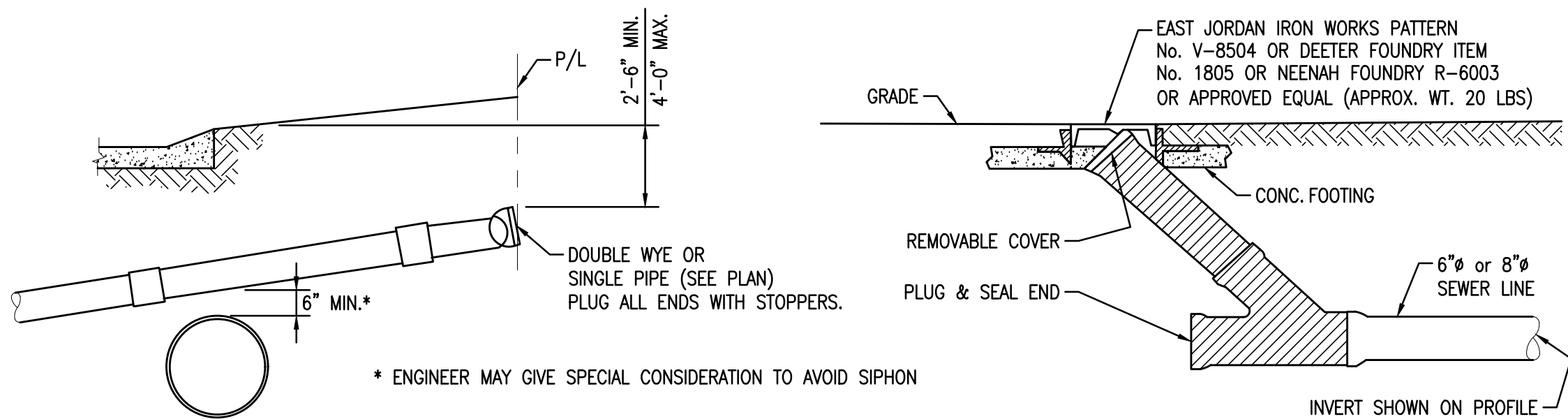


SECTION
SCALE: N.T.S.

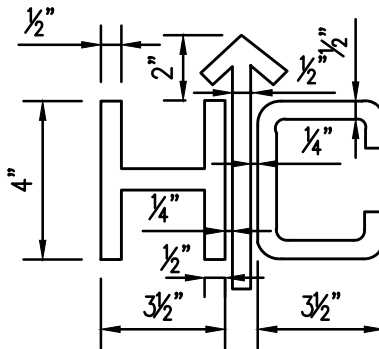


**PVC SDR 26, ASTM D3034
TYPICAL SEWER HOUSE CONNECTION
REQUIREMENT AND UTILITY LOCATIONS**

PIPE FOR HOUSE CONNECTION SHALL CONFORM
TO SAME MATERIAL TYPE USED IN MAIN LINE.

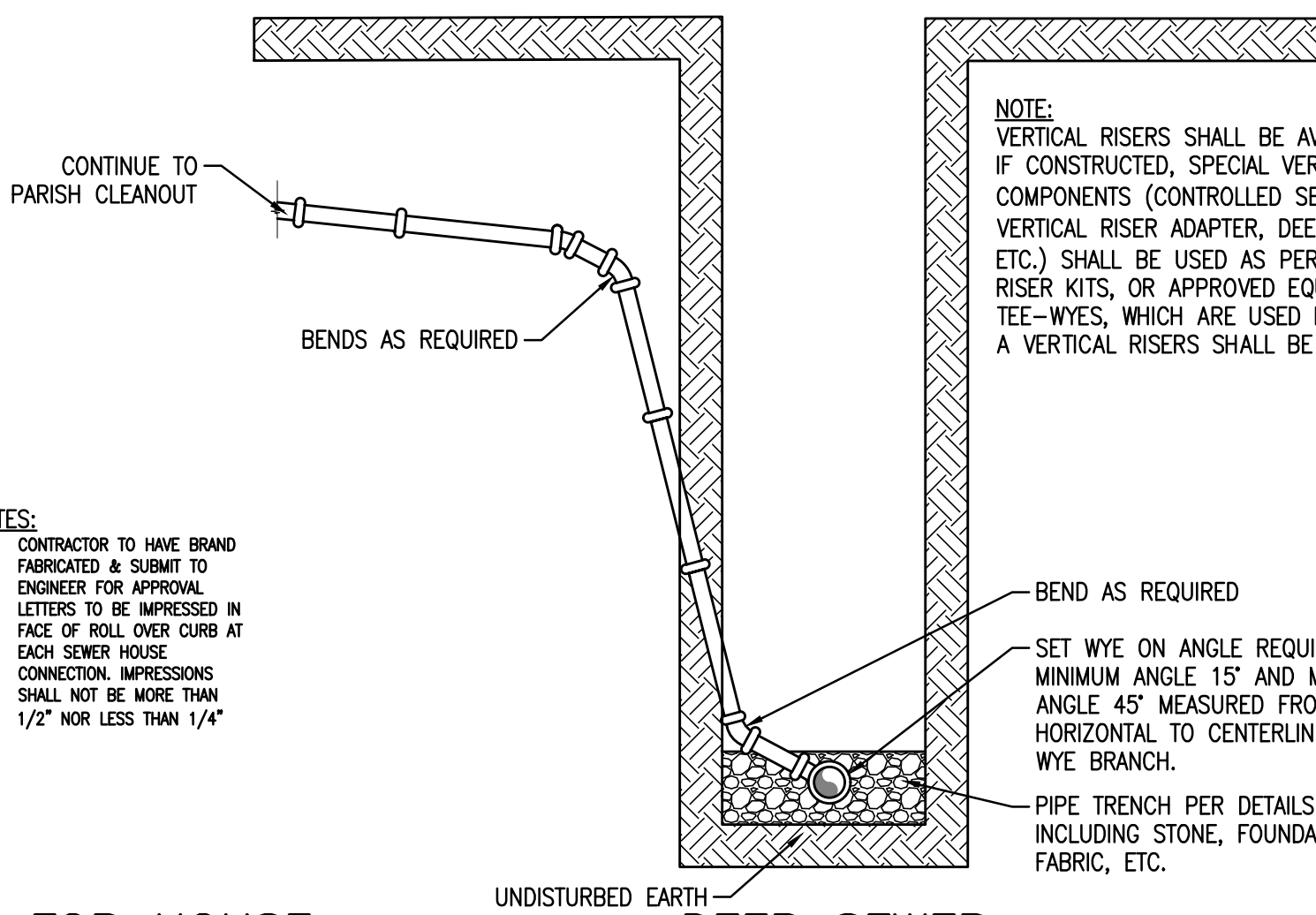


CLEANOUT DETAIL
SCALE: N.T.S.



NOTES:
1. CONTRACTOR TO HAVE BRAND
FABRICATED & SUBMIT TO
ENGINEER FOR APPROVAL.
LETTERS TO BE IMPRESSED IN
FACE OF ROLL OVER CURB AT
EACH SEWER HOUSE
CONNECTION. IMPRESSIONS
SHALL NOT BE MORE THAN
1/2" NOR LESS THAN 1/4"

**LETTER DETAIL FOR HOUSE
CONNECTION MARKING DEVICE**
SCALE: N.T.S.



**DEEP SEWER
SERVICE CONNECTION**
SCALE: N.T.S.

NOTES:
1. ONLY HARDWOOD SUCH AS OAK SHALL BE ALLOWED
FOR SHEETING, BRACING, AND FOUNDATION LUMBER.

2. AT THE CONTRACTOR'S OPTION, FOUNDATION LUMBER
MAY BE USED IN TRENCH TYPES I & II.

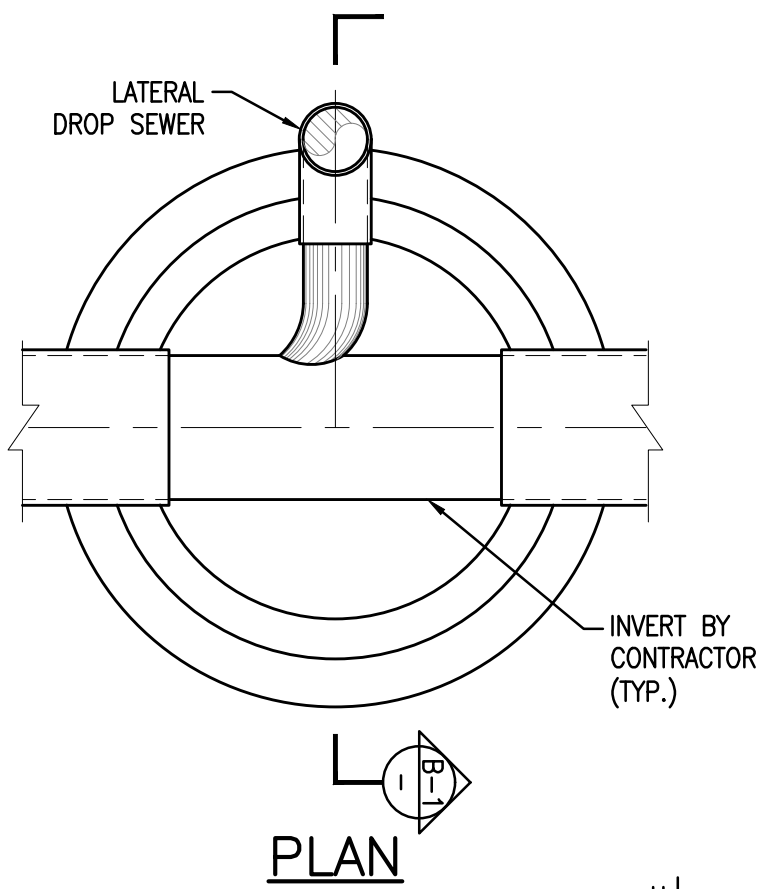
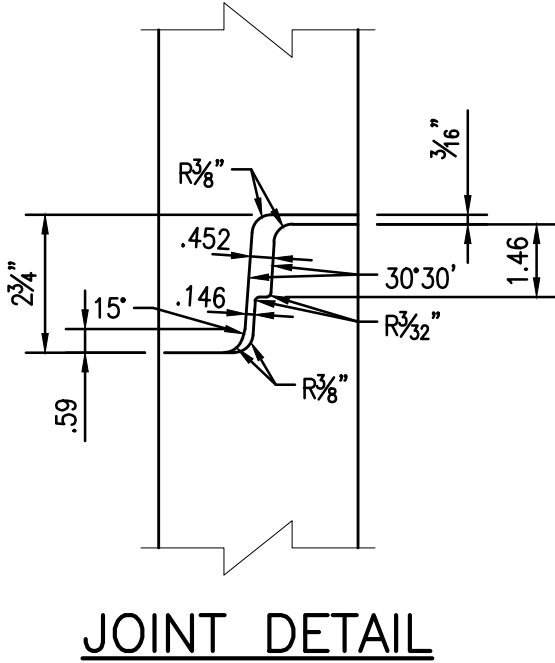
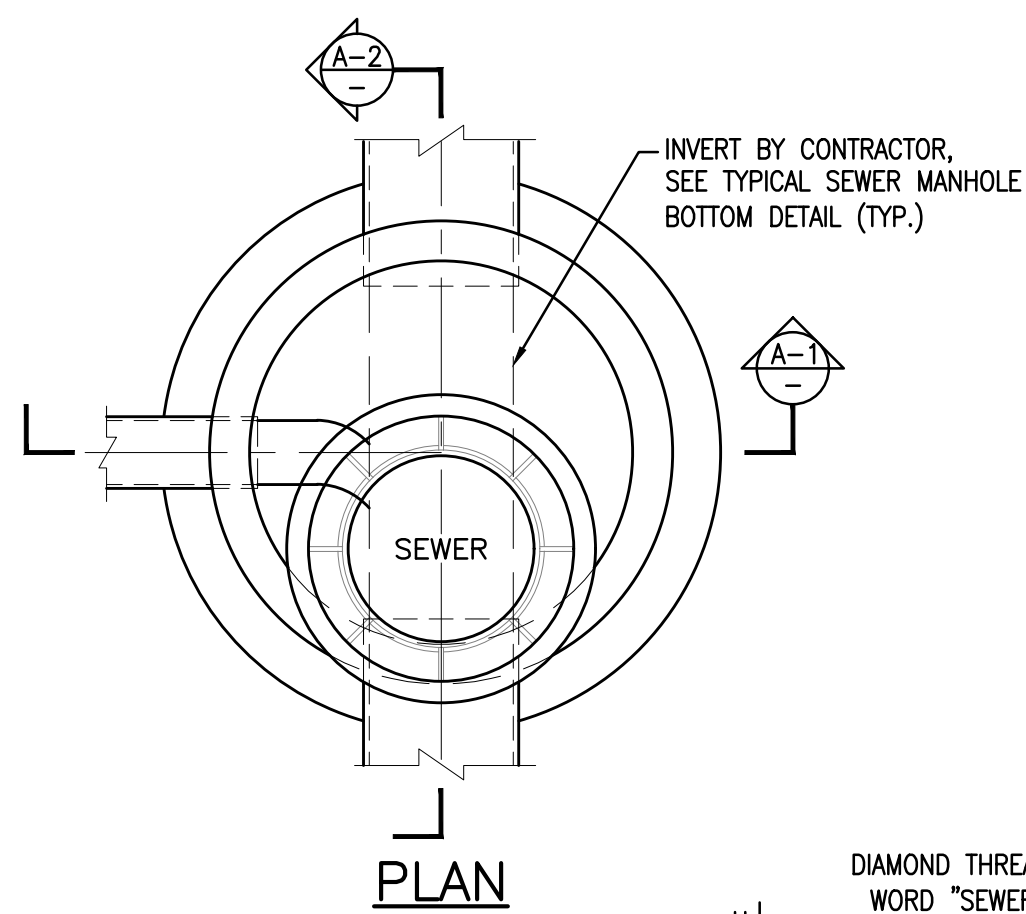
3. THE CONTRACTOR MUST REVIEW AND UNDERSTAND
ALL DETAILS AND TABLES ON THIS STANDARD DRAWING
SHEET PRIOR TO BIDDING. THE ABOVE TABLE DICTATES
THE TYPE OF REQUIRED TRENCHES (TYPES I, II, III, IV,
AND V) BASED ON THE SOIL TYPE (TYPES 1 - 20).
THE SPECIFIC SOIL TYPE MUST BE IDENTIFIED IN THE
BID DOCUMENTS FOR EACH CONSTRUCTION PROJECT.
THIS, SIMPLY, CAN BE ACCOMPLISHED BY CIRCILING
THE SOIL TYPE AND THE ASSOCIATED TRENCH TYPES
(BOX THE ENTIRE ROW).

4. BEDDING MATERIALS FOR HOUSE CONNECTION TO BE
IN CONFORMANCE WITH THE FOLLOWING SCHEDULE:

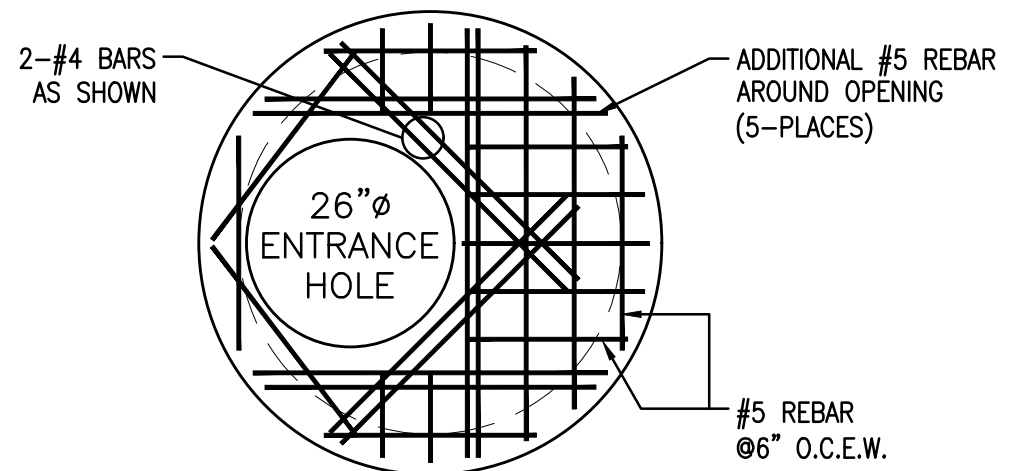
TYPE OF MAIN SEWER TRENCH BEDDING	TYPE OF REQUIRED HOUSE CONNECTION TRENCH BEDDING
V	IV
IV	III
III	II
II	I
I	CRUSHED LIME STONE OR GRAVEL ONLY

**SEWERAGE TRENCH TYPE
VS. DEPTH (FEET)**

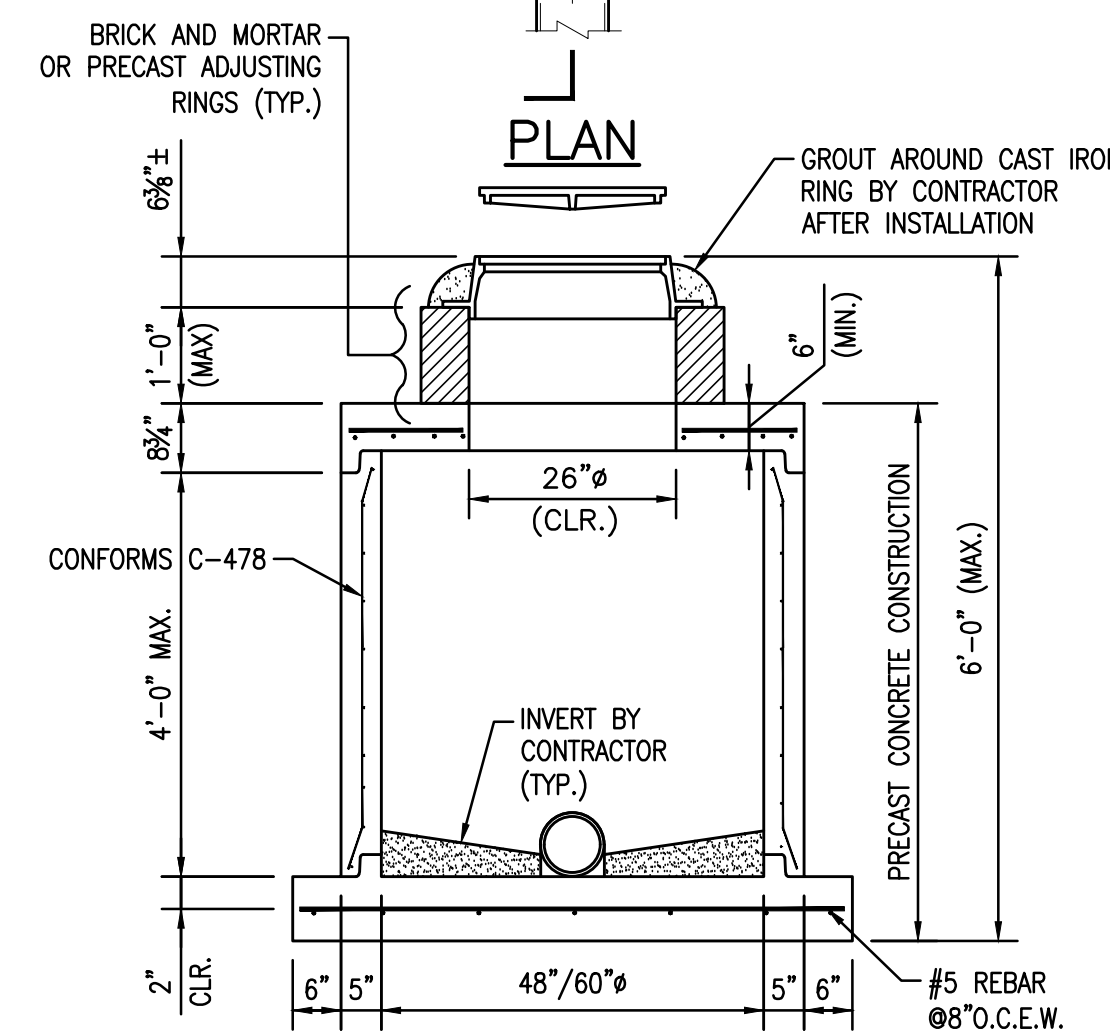
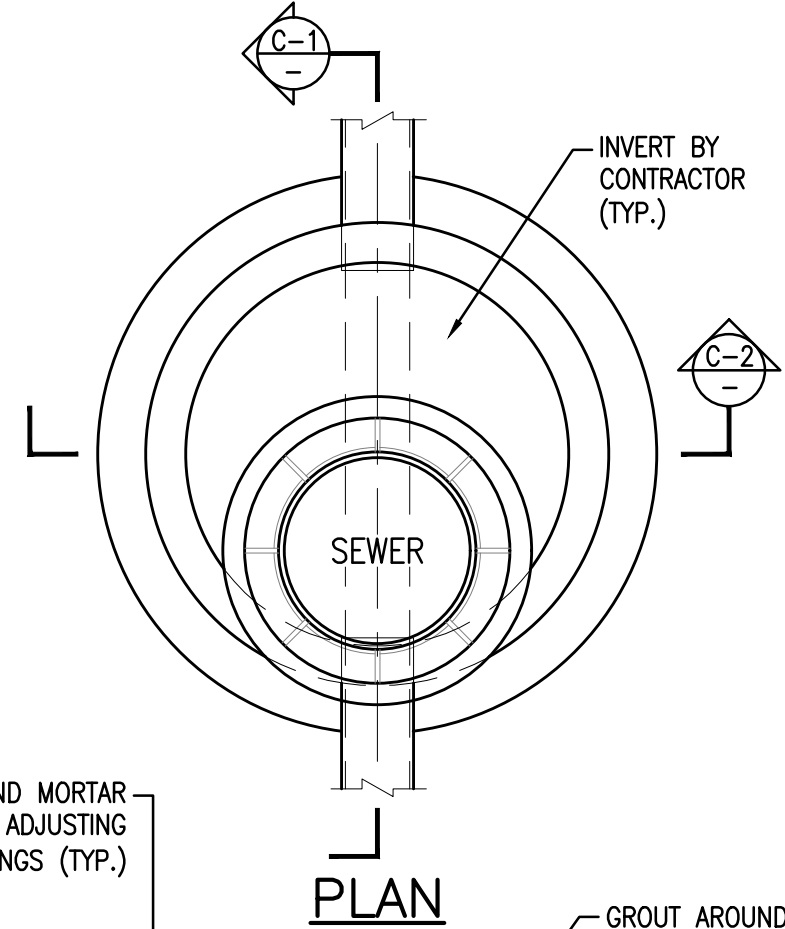
SOIL TYPE	0-4	4-6	6-8	8-10
17	I	II	III	V
6	I	II	III	V
16	II	II	III	V
14	II	II	III	V
13	II	II	III	V
3	II	III	IV	V
9	II	III	IV	V
5	II	III	IV	V
20	II	III	IV	V
18	II	III	IV	V
4	II	III	IV	V
1	II	III	IV	V
11	II	III	IV	V
2	II	III	IV	V
8	II	III	IV	V



- NOTES:
1. REINFORCING STEEL TO MEET ASTM A-615 GRADE 60, CONCRETE TO BE 4000 PSI IN 28 DAYS.
 2. CONCRETE TO CONTAIN XYPEX ADMIX AS PER MANUFACTURER RECOMMENDATIONS.
 3. REINFORCING TO MEET AASHTO HS-20 LOADING.
 4. JOINTS BETWEEN PRECAST UNITS WILL BE SEALED WITH A RUBBER GASKET TO MEET ASTM C-443.
 5. PRECAST CONCRETE STRUCTURE TO MEET ASTM C-478.
 6. USE RESILIENT BOOT CONNECTORS TO CONNECT PIPES TO MANHOLES. RESILIENT BOOT CONNECTORS AND THEIR INSTALLATIONS SHALL MEET AND/OR EXCEED ALL REQUIREMENTS OF ASTM C923, ASTM C1244, AND ASTM C1478.
 7. MANHOLES THAT EXCEED 12' IN DEPTH SHALL USE 10" THICK CONC. BOTTOM SLAB.
 8. XYPEX ADMIX C-1000 SHALL BE INCORPORATED INTO ALL MORTAR MIXES USED IN SANITARY SEWER MANHOLES.
 9. ALL XYPEX ADMIX SHALL INCLUDE A DYE SO IT CAN BE DISTINGUISHED FROM CONCRETE WITHOUT XYPEX EXCEPT TOP SLAB OF LIFT STATION WET WELLS AND VALVE PITS WHICH SHOULD NOT HAVE ANY DYE IN THE XYPEX.
 10. CONCRETE "FORTIFIED WITH CONSHIELD" (IN ADDITION TO XYPEX), IS REQUIRED FOR LIFT STATION WET WELLS, MANHOLES WITHIN CLOSE PROXIMITY (100 FEET) OF LIFT STATIONS, DEEP (8 FEET AND DEEPER) MANHOLES, AND ANY MANHOLE WHICH IS OR WILL BE RECEIVING A FORCE MAIN.

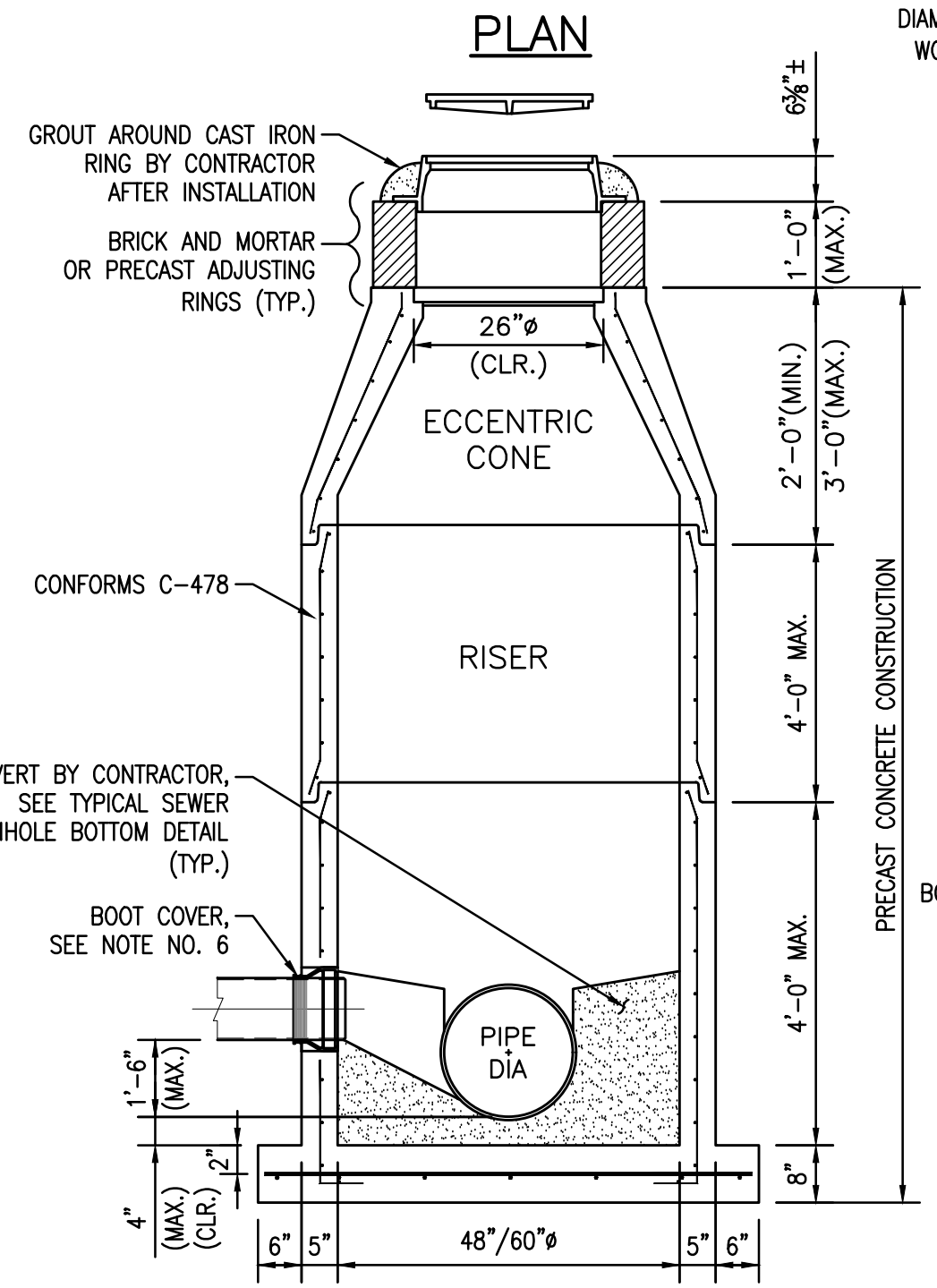


CONCRETE TOP SLAB PLAN



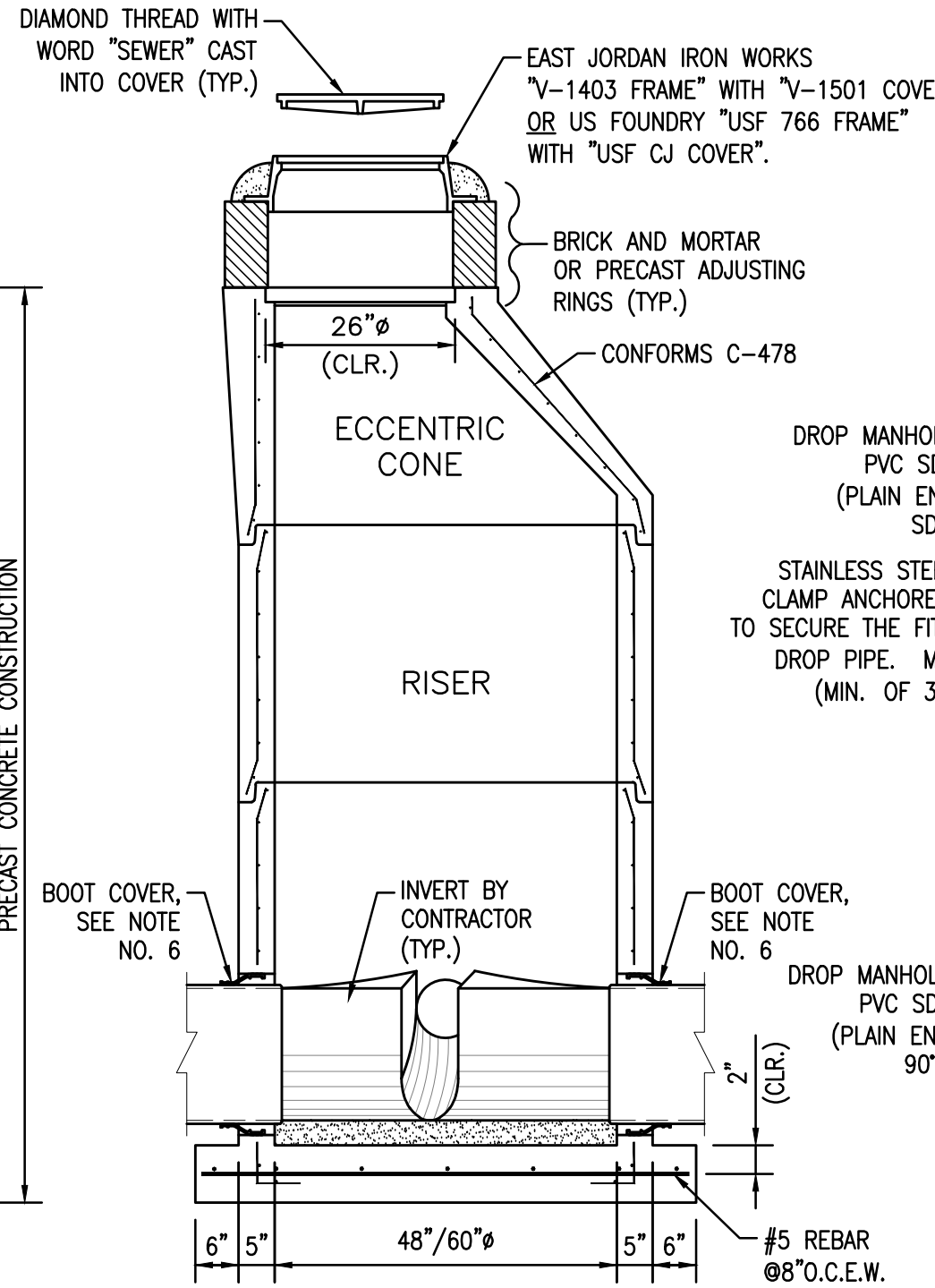
SECTION C-2

NOTE:
FOR EXISTING PIPE TO MANHOLE APPLICATIONS A RISER WITH A DOGHOUSE STYLE BLOCK OUT AND SEPARATE BOTTOM SLAB WILL BE USED (CONTRACTOR TO GROUT-IN PIPE).

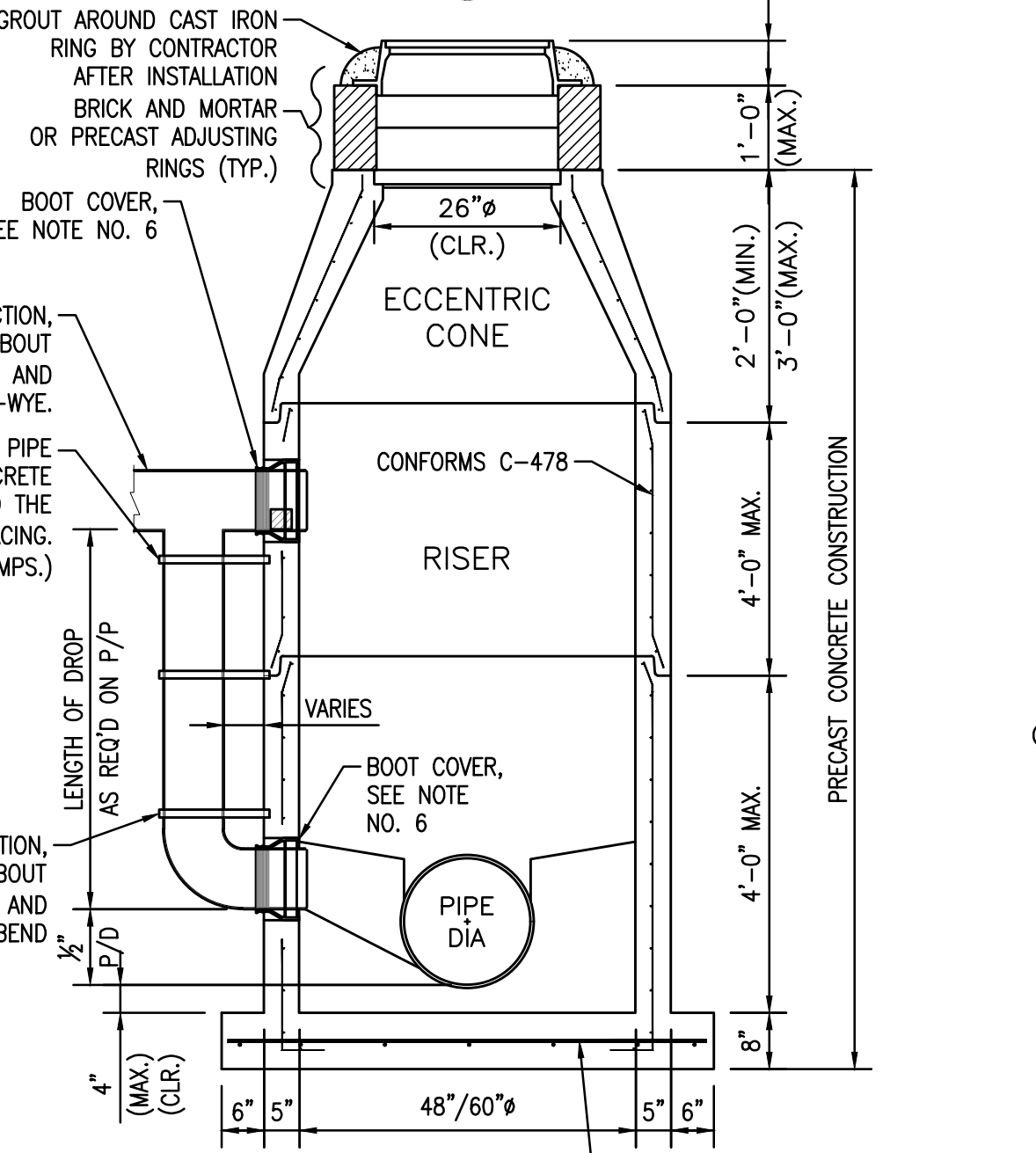


SECTION A-1

STANDARD MANHOLE DETAIL
SCALE: N.T.S.

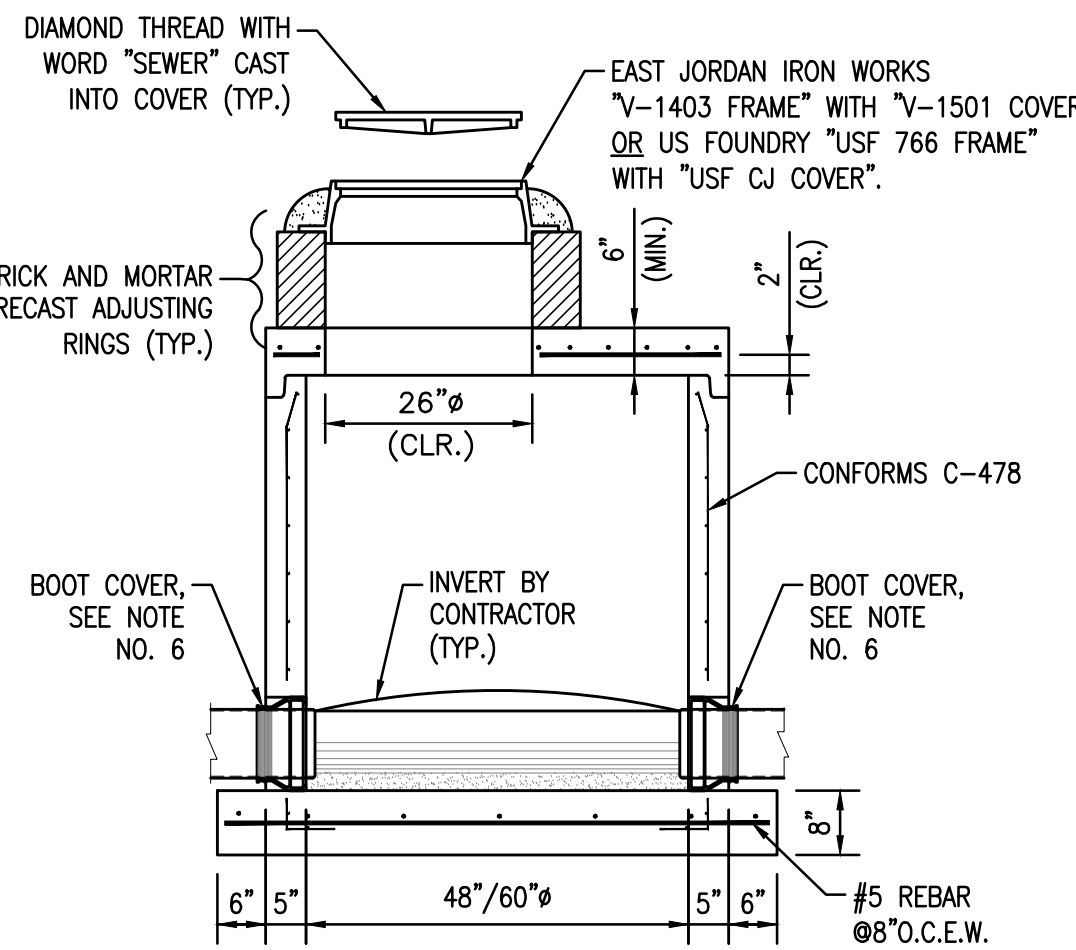


SECTION A-2



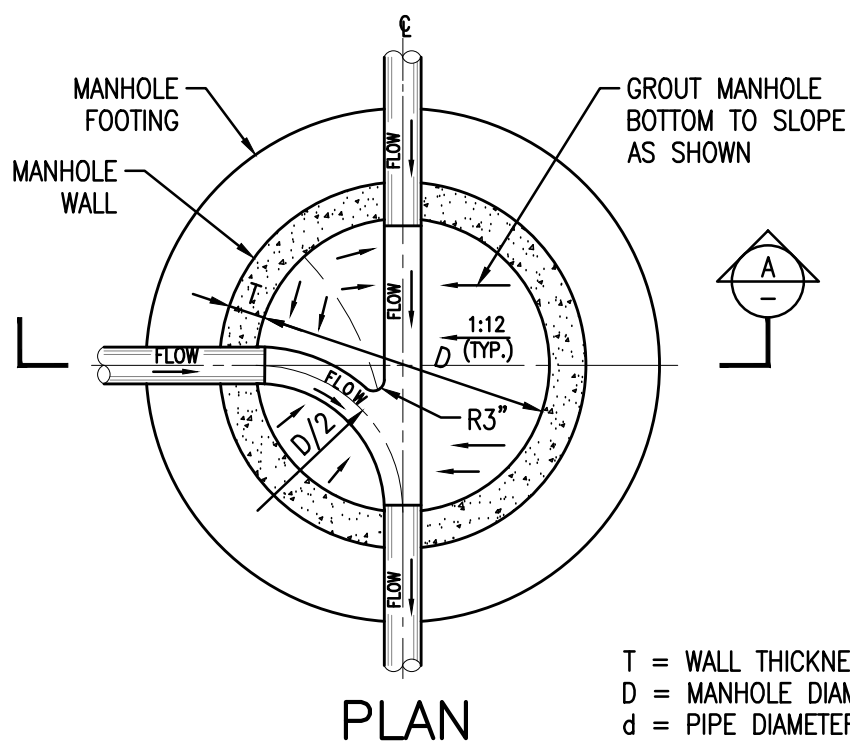
SECTION B-2

STANDARD DROP MANHOLE DETAIL
SCALE: N.T.S.



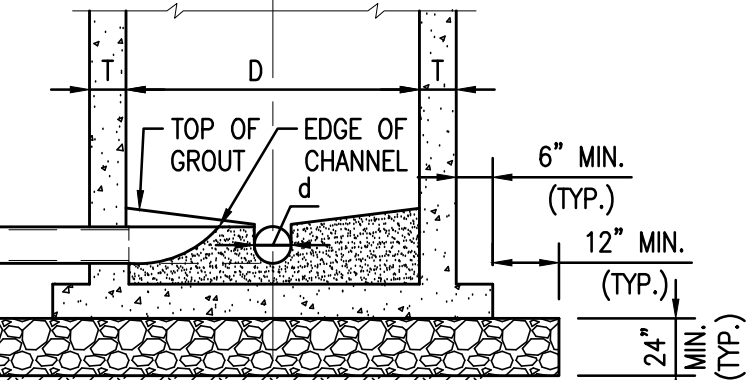
SECTION C-1

STANDARD SHALLOW MANHOLE DETAIL
SCALE: N.T.S.



PLAN

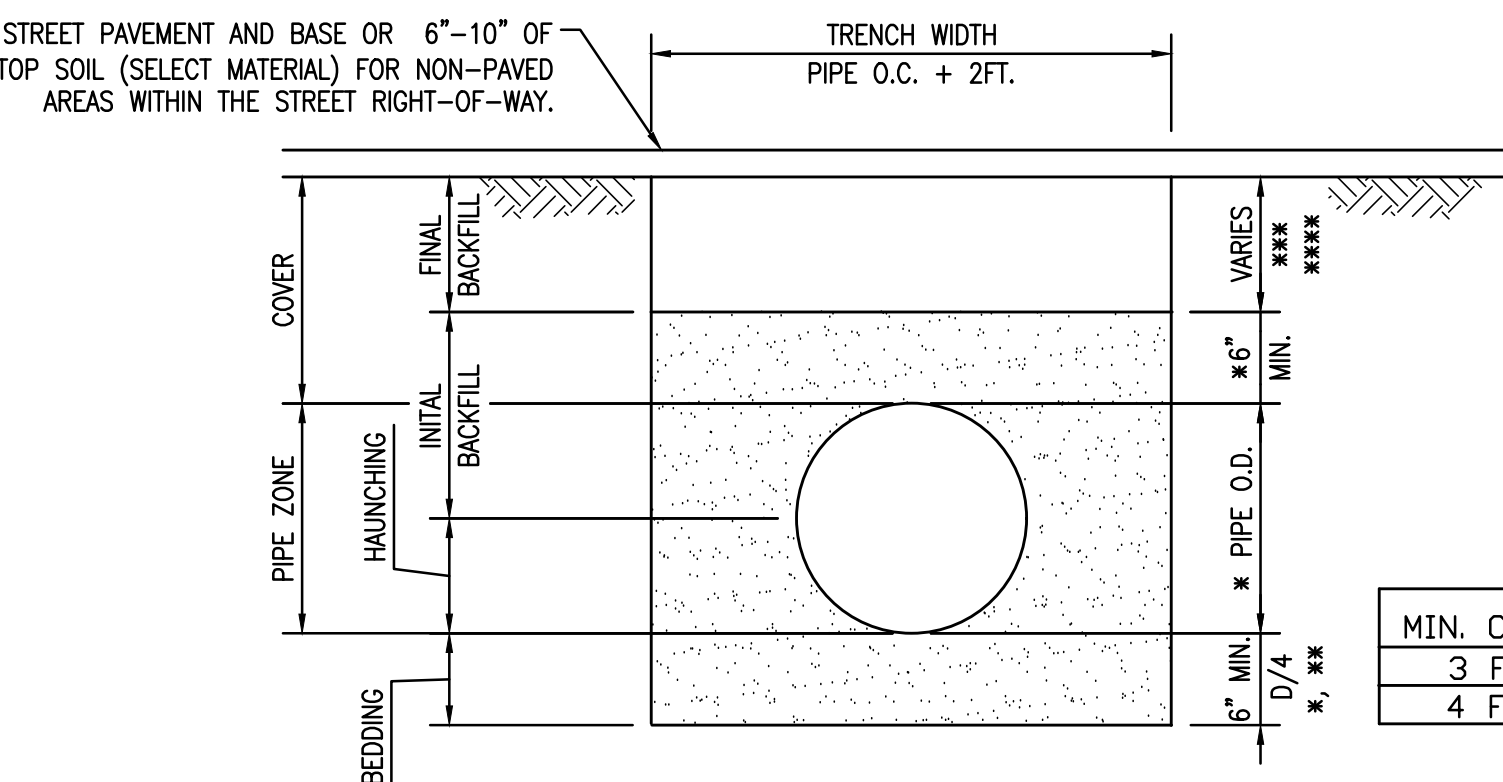
T = WALL THICKNESS
D = MANHOLE DIAMETER
d = PIPE DIAMETER



SECTION A

TYPICAL SEWER MANHOLE BOTTOM DETAIL
SCALE: N.T.S.

48"/60" DIAMETER PRECAST CONCRETE SEWER MANHOLE



SEWER FORCE MAIN STANDARD TRENCH DETAIL
FOR D.I., PVC-C900, PVC-C905 AND HDPE(MIN.THICKNESS, DR.17) PIPES
SCALE: N.T.S.

- NOTES:
- * COMPACTED SAND, ASTM 2321 CLASS II (SW OR SP) MIN. DENSITY 90% STANDARD PROCTOR (ASTM D698) 6" MAX. LAYERS.
 - ** PROVIDE BELL HOLES AT EACH JOINT
 - *** SELECT EXCAVATED MATERIAL FREE OF STUMPS, DEBRIS AND VOIDS (CANAL BANKS AND DITCHES ONLY)
 - **** RIVER SAND WITHIN THE STREETS RIGHT-OF-WAY MIN. DENSITY 95% STANDARD PROCTOR (ASTM D698)

- NOTES:
1. WHERE GROUND WATER OR UNSTABLE TRENCH BOTTOM EXISTS, TRENCH BOTTOM SHALL BE STABILIZED (ASTM D2321) TO PROVIDE A WORKING PLATFORM.
 2. TRENCH DETAIL SHOWN WILL BE MIN. REQUIREMENTS TO SAFEGUARD THE INTEGRITY OF THE WATER LINE INSTALLATION AT HEREIN-SPECIFIED DEPTHS. THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

MIN. COVER	PIPE SIZE (IN.)
3 FT.	8-10
4 FT.	>12



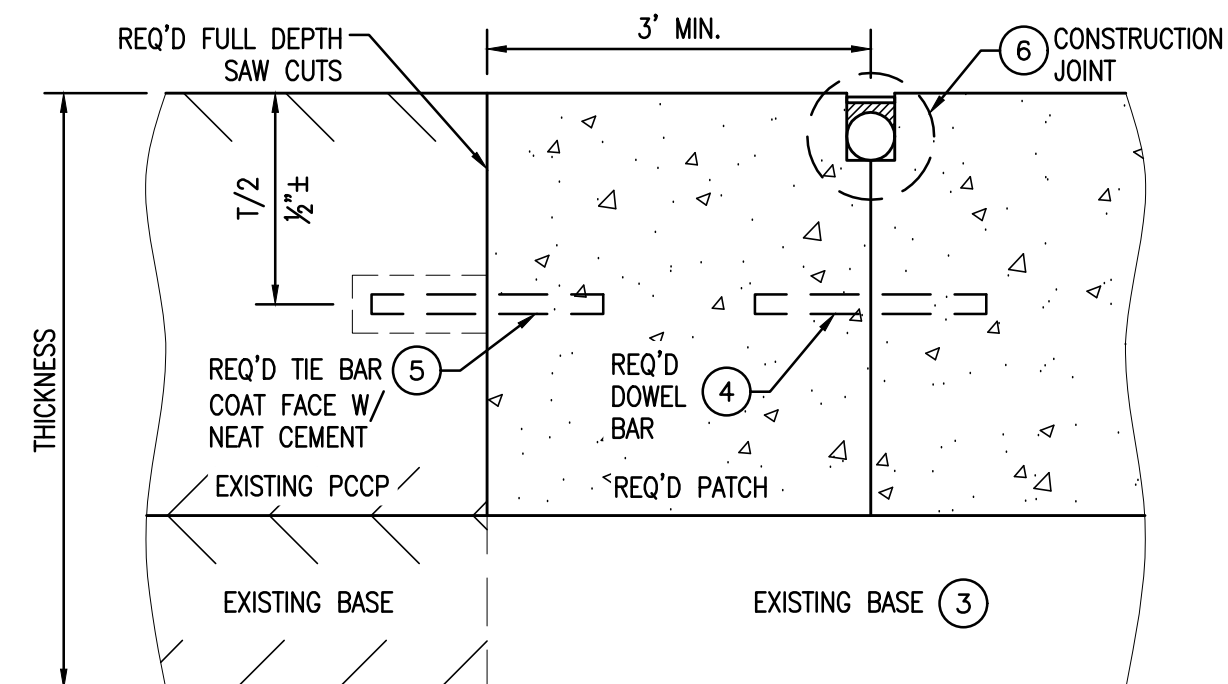
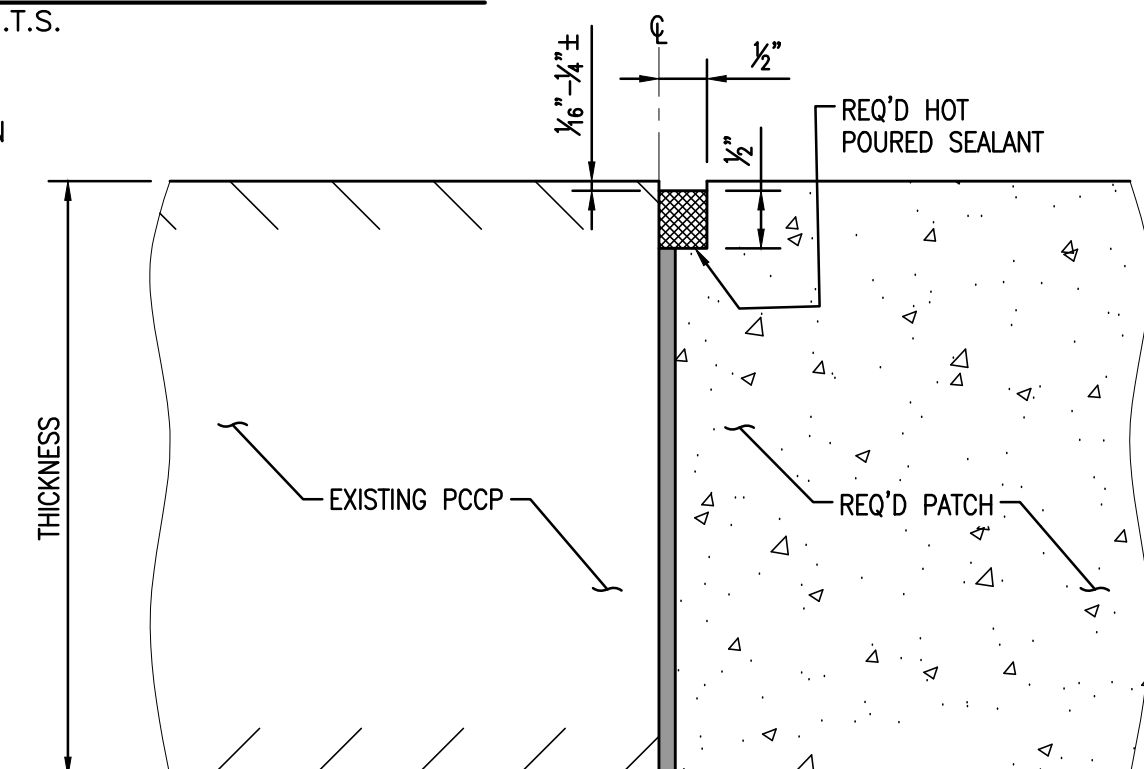
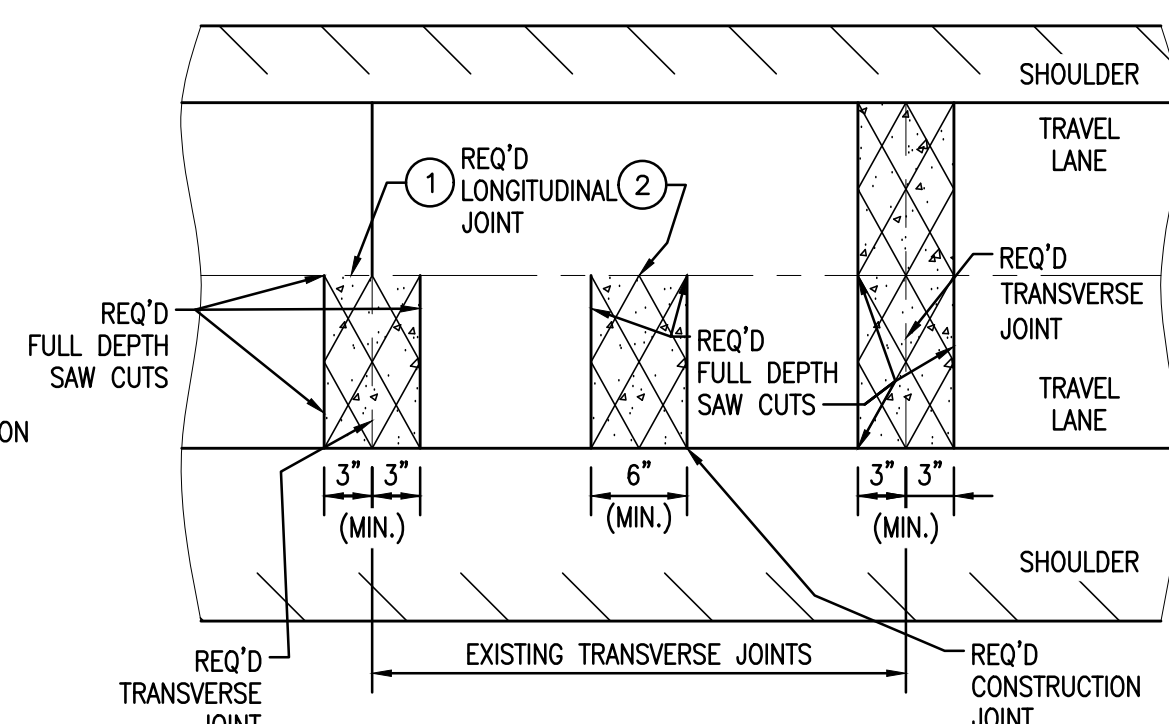
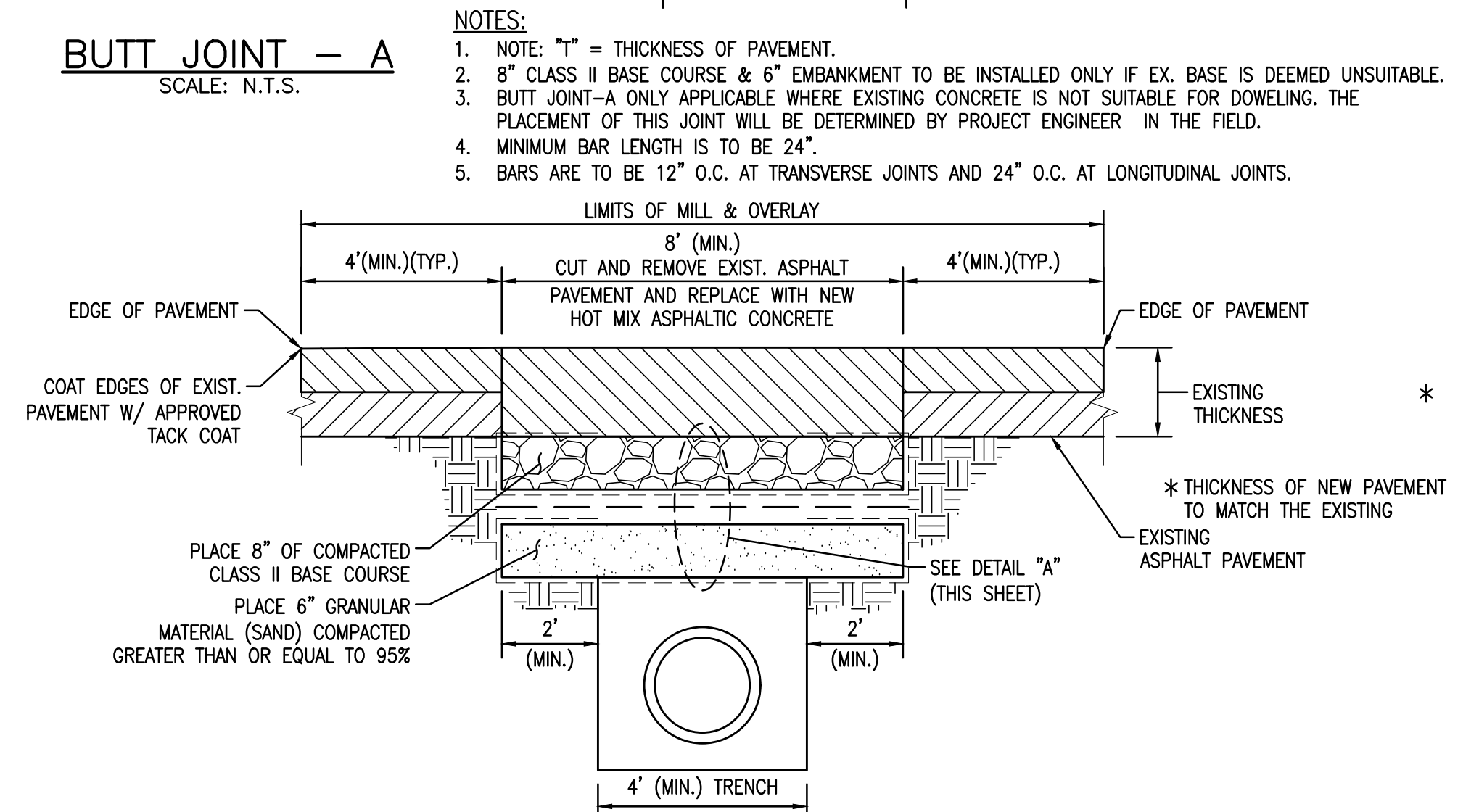
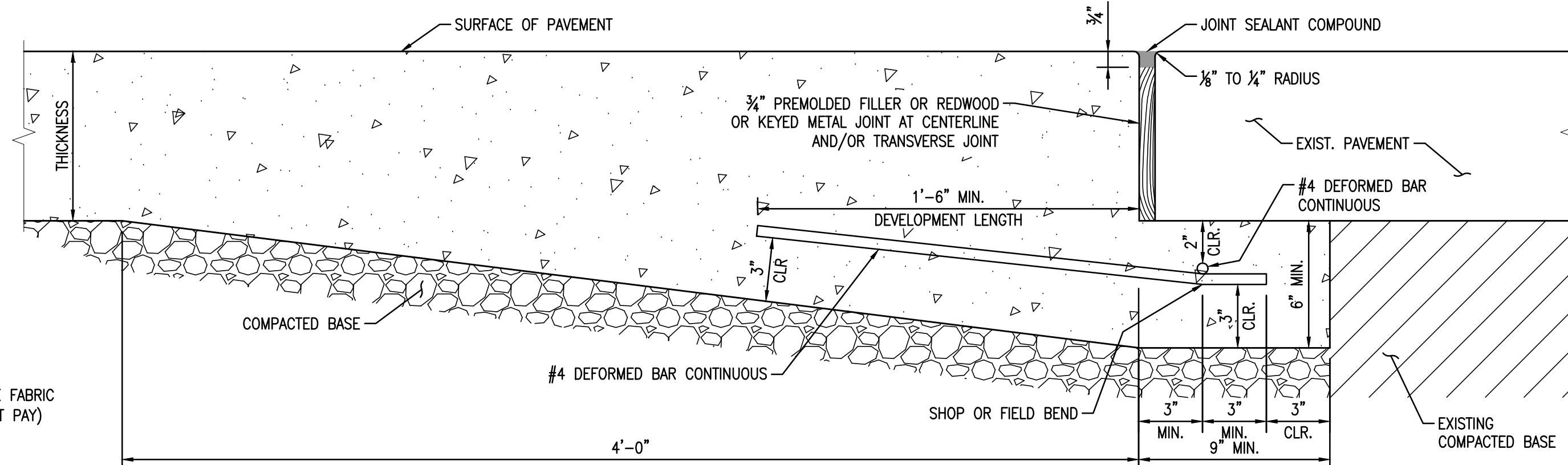
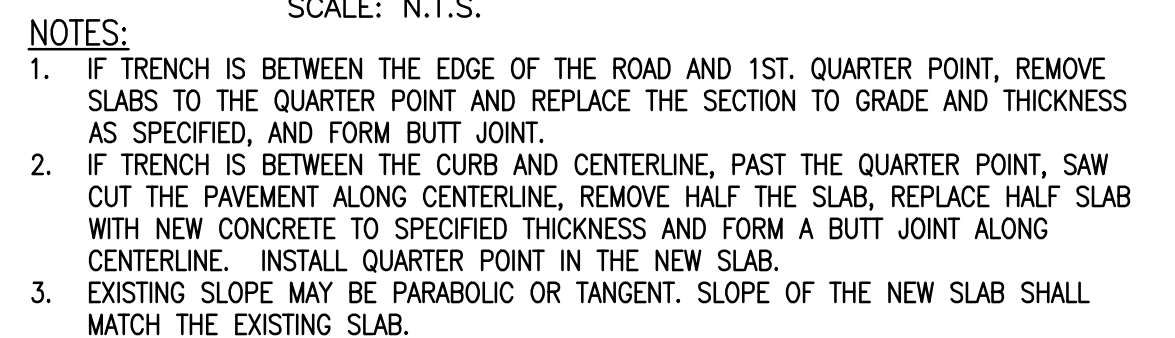
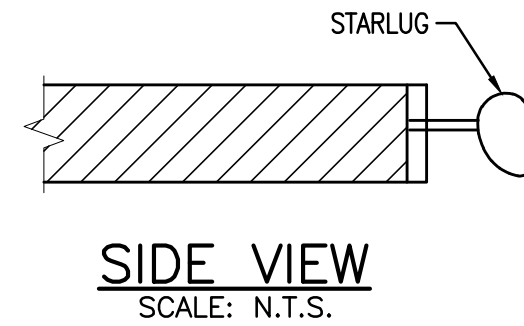
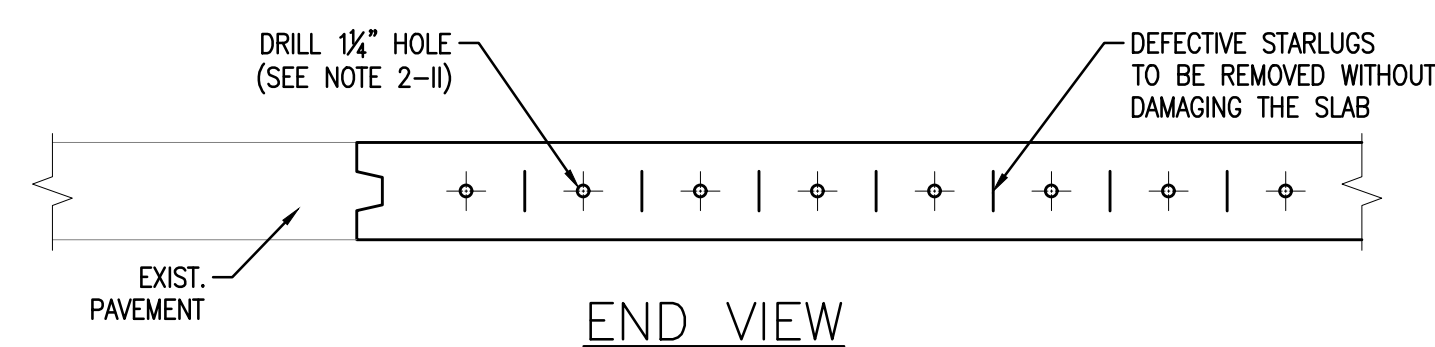
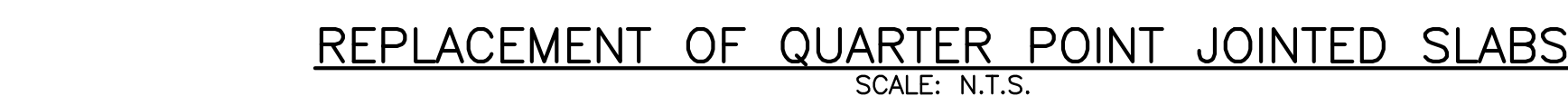
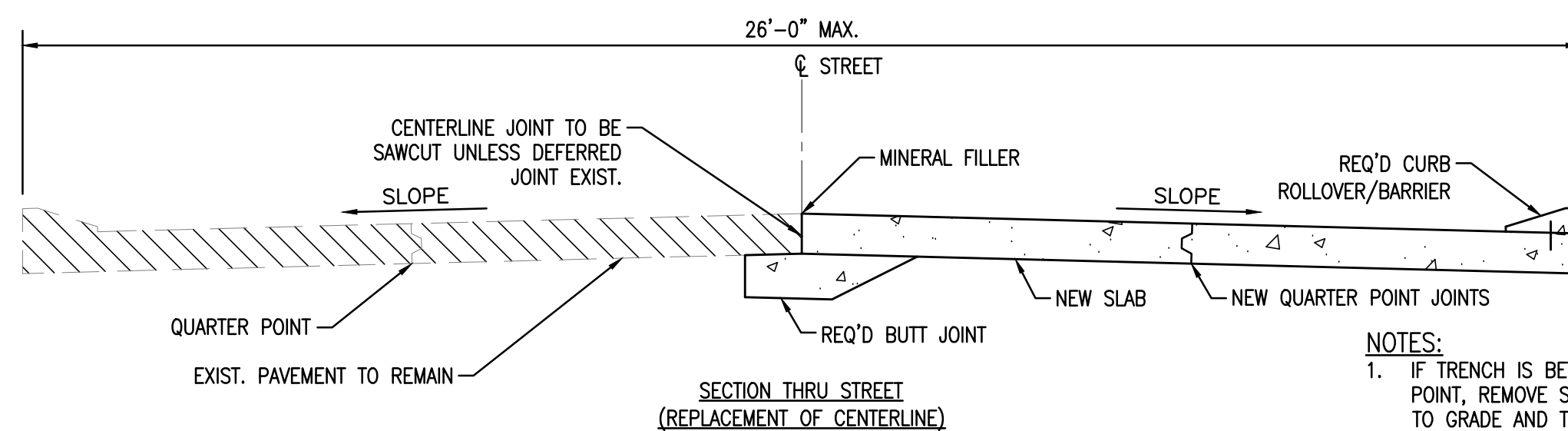
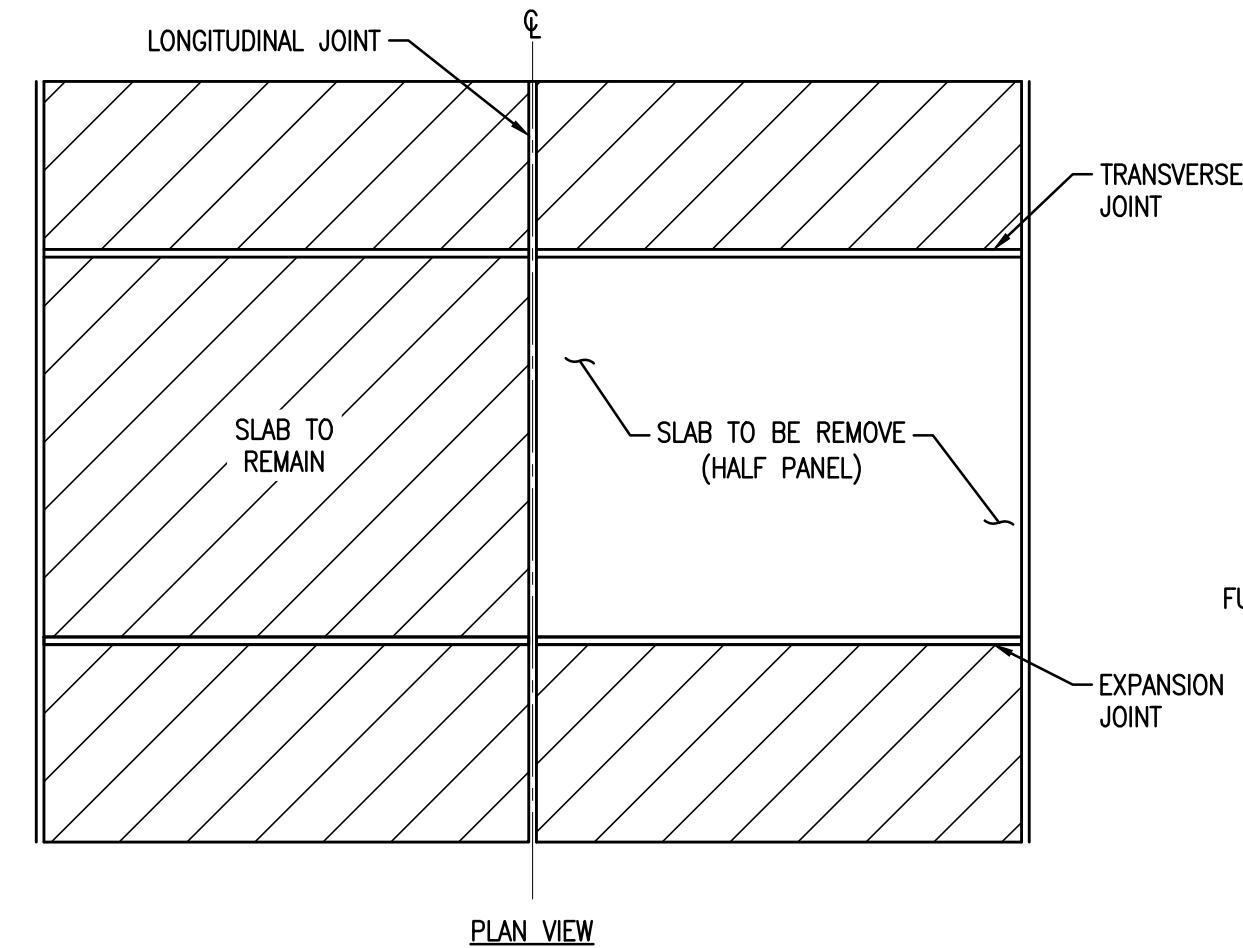
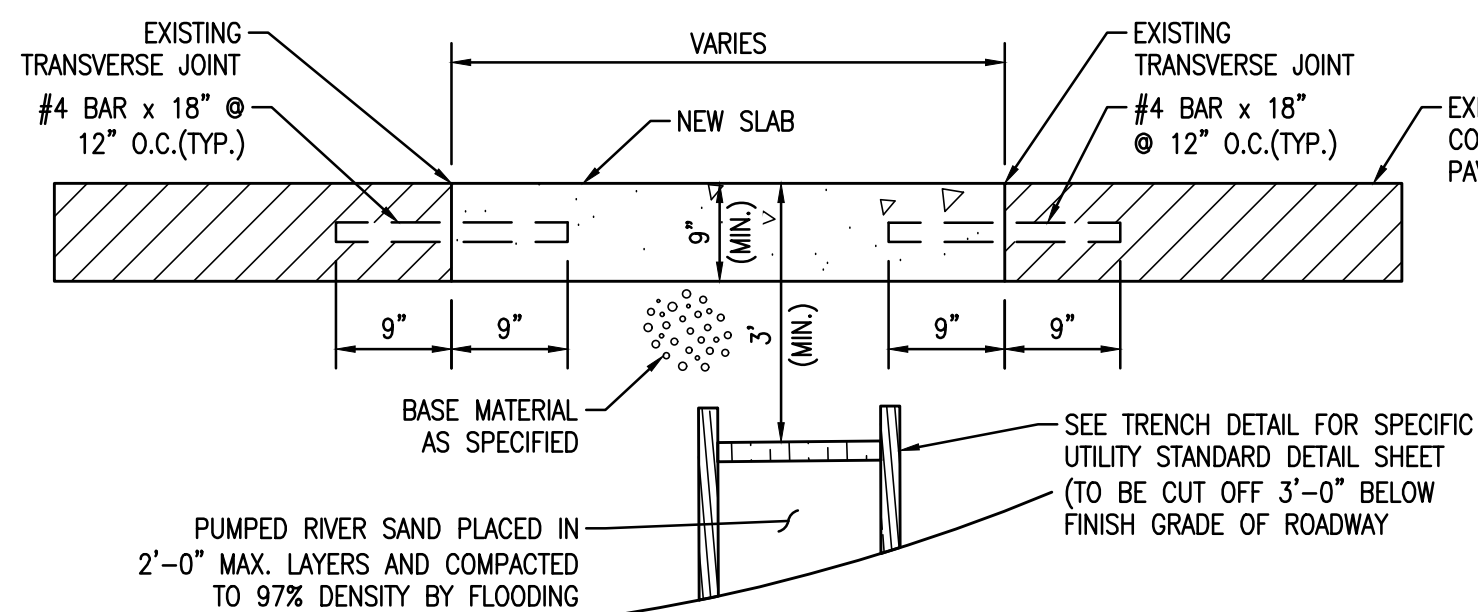
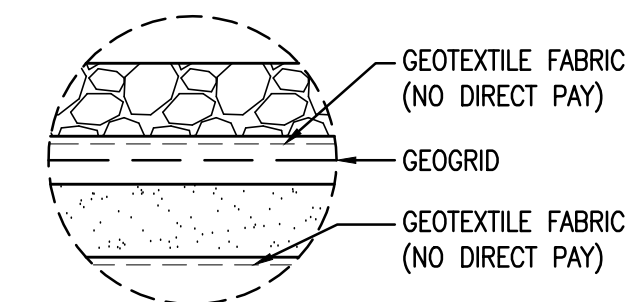
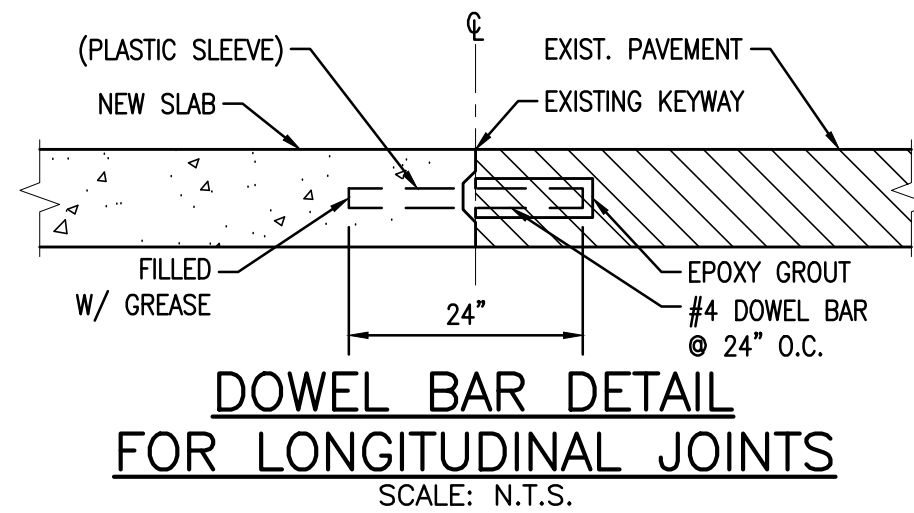
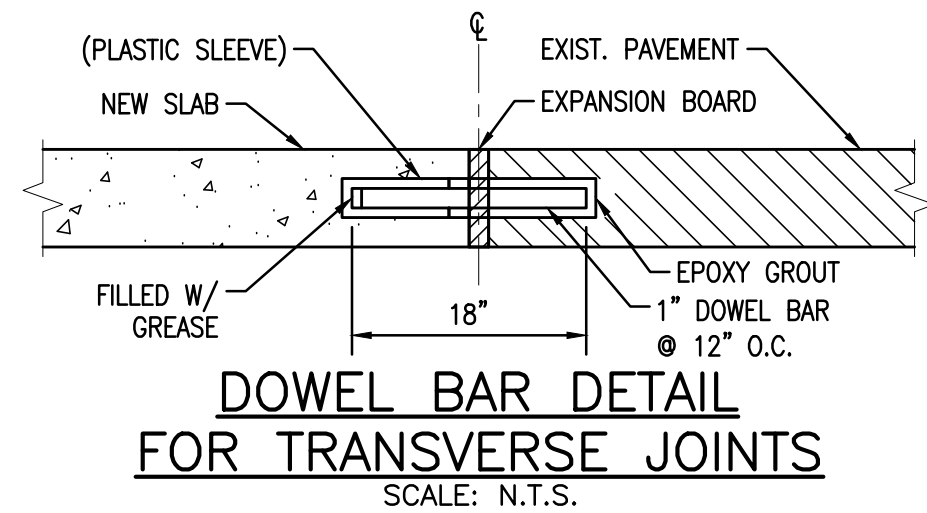
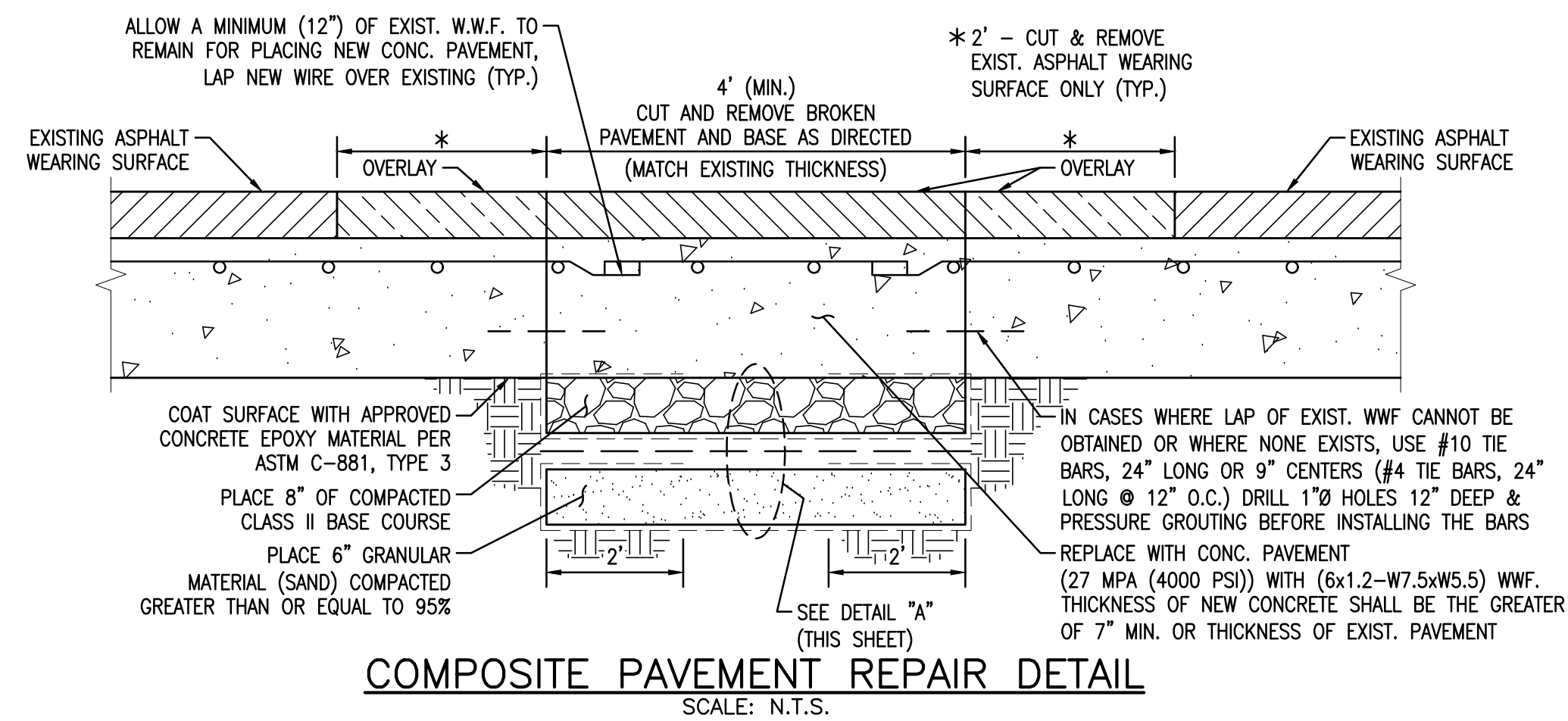
N.T.S.

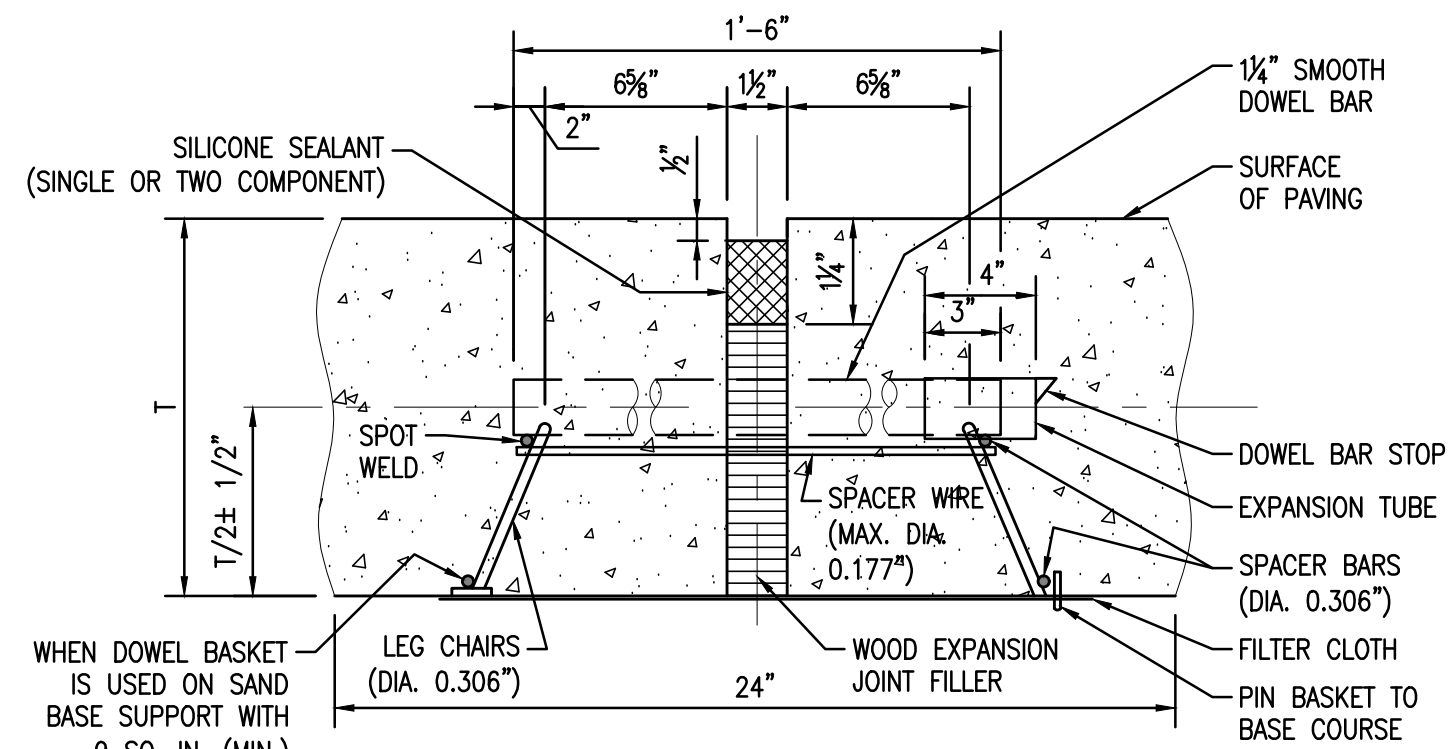


- *** 11. BRICK CONFLICT BOXES OVER 7' DEEP WILL REQUIRE 12" THICK WALLS BELOW THE 7' DEPTH.

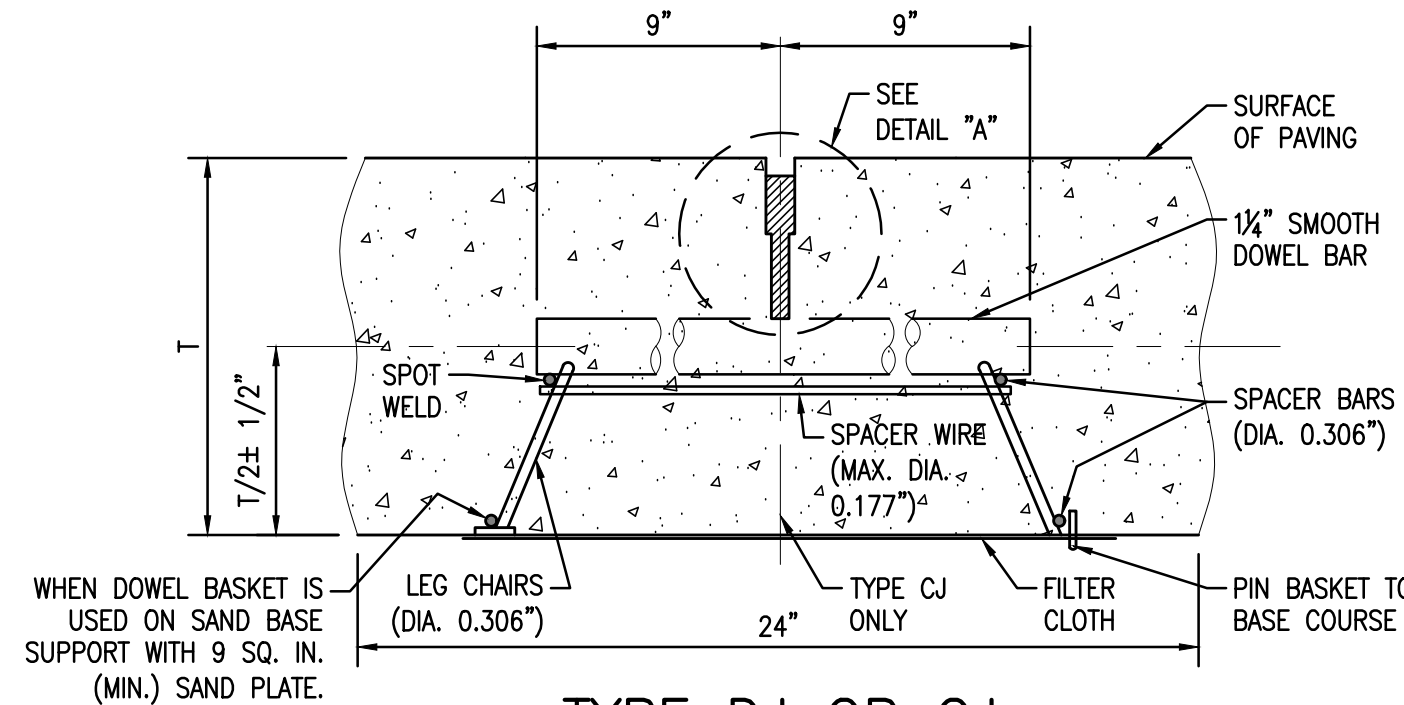


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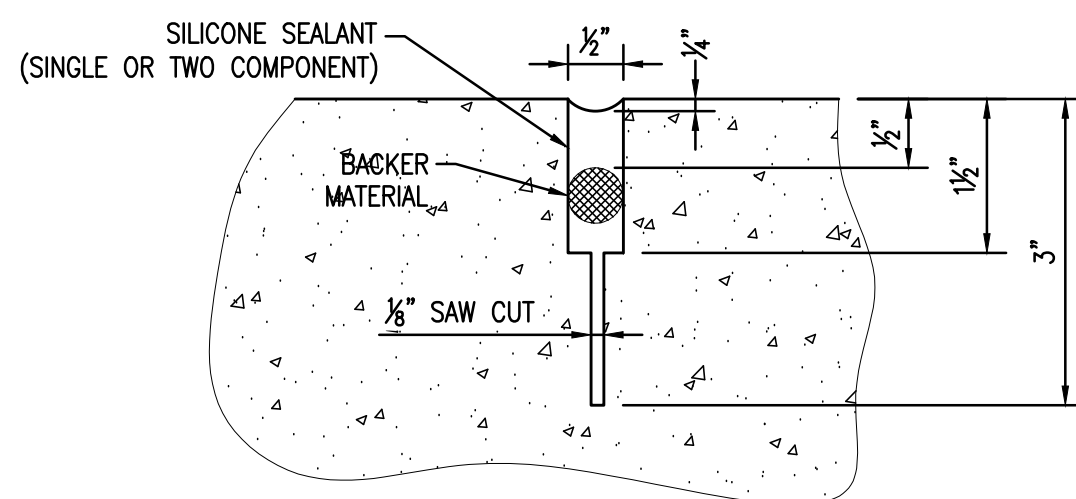




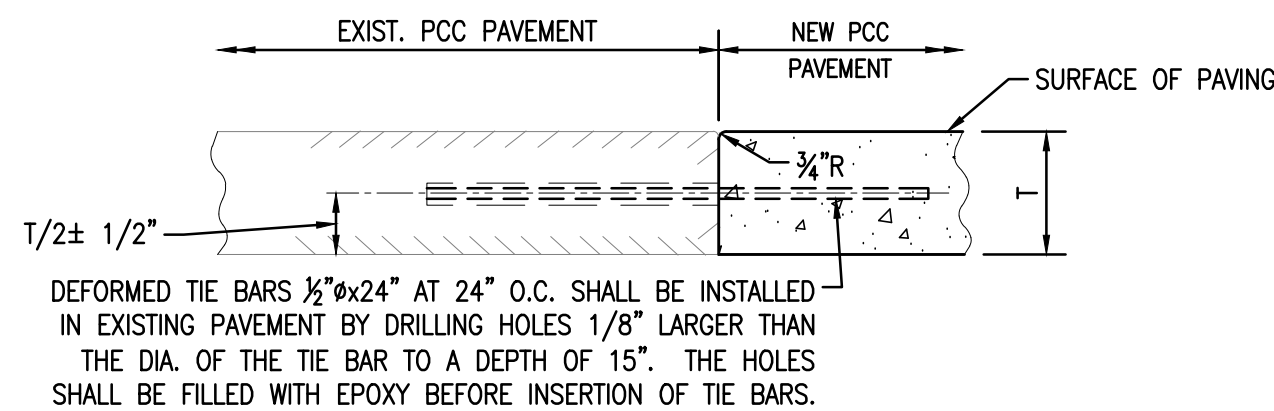
TYPE EJ
TRANSVERSE EXPANSION JOINT
(SECTION "A-A")
SCALE: N.T.S.



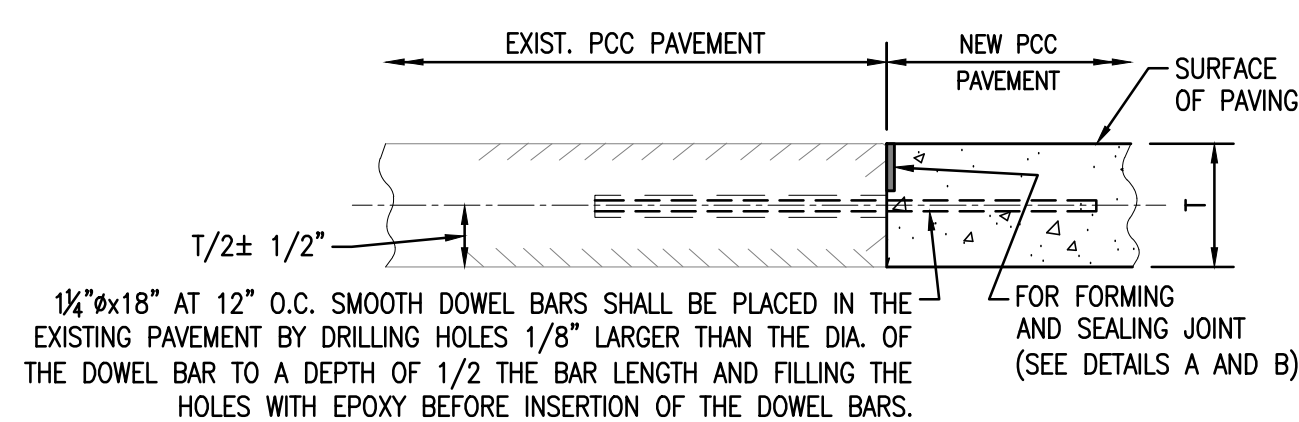
TYPE DJ OR CJ
(SECTION "B-B")
SCALE: N.T.S.
(TRANSVERSE DUMMY JOINT
OR CONSTRUCTION JOINT)



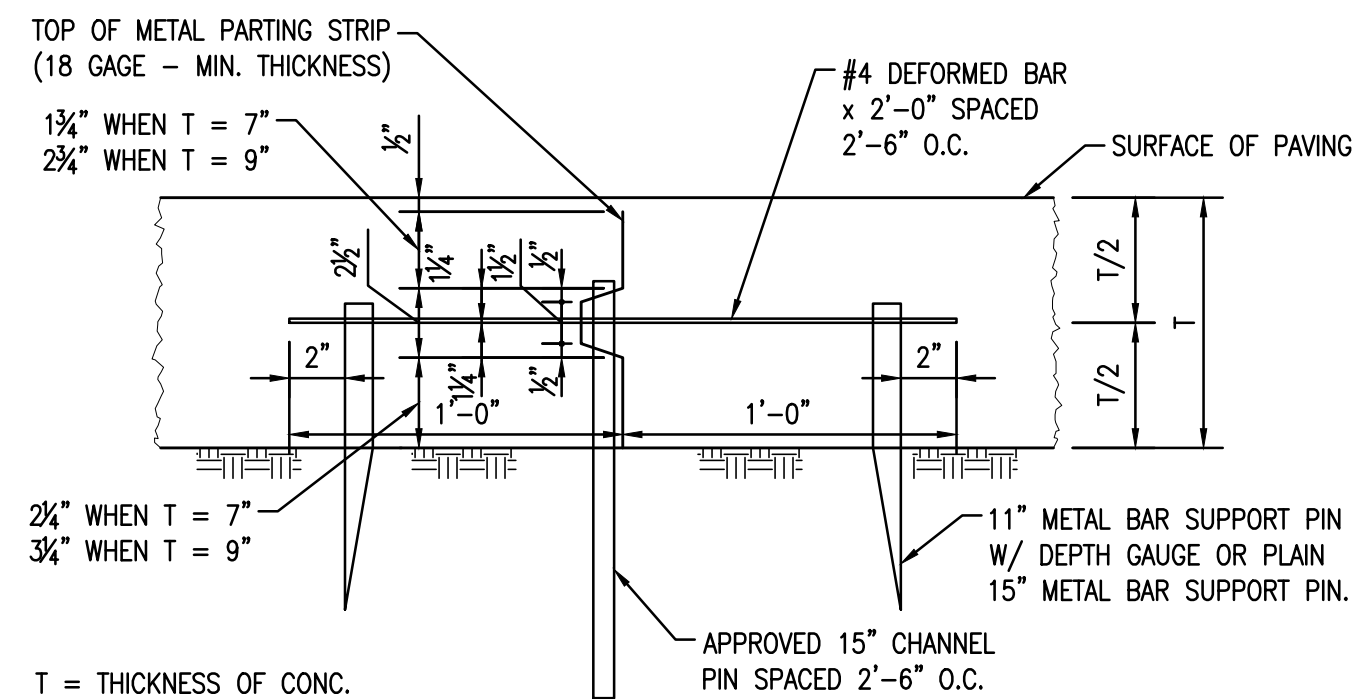
DETAIL "A"
SCALE: N.T.S.



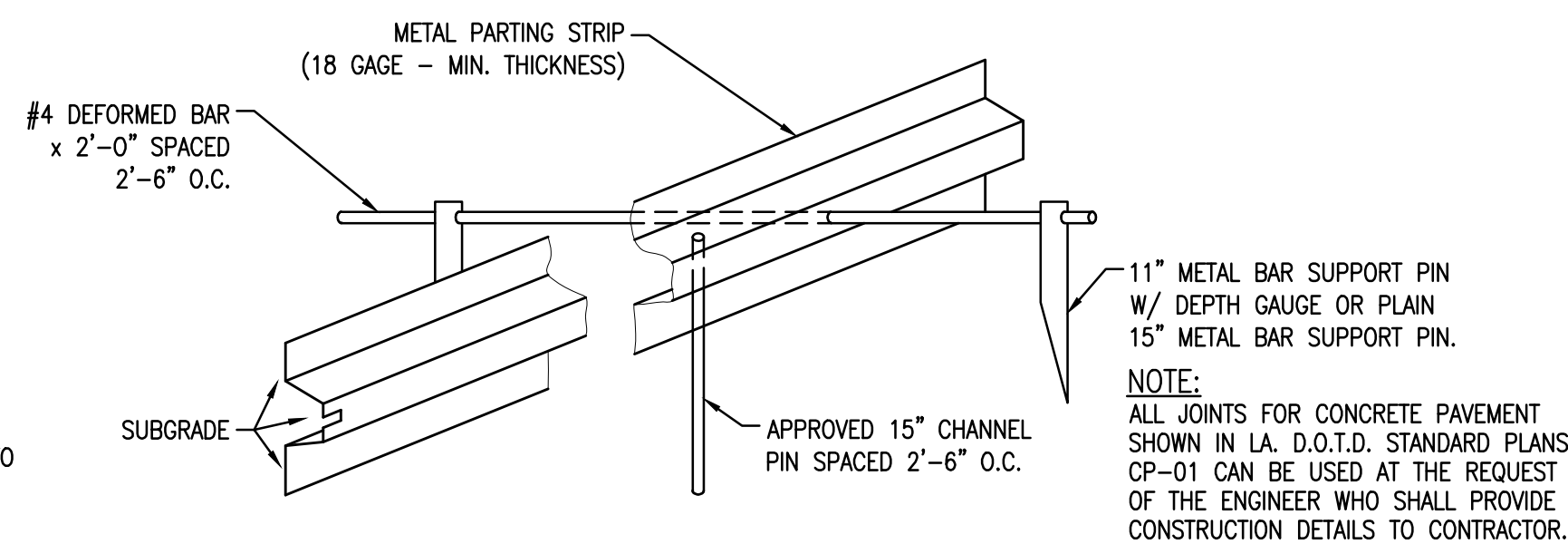
LONGITUDINAL BUTT JOINT
(APPLICABLE TO MAJOR STREETS)
SCALE: N.T.S.



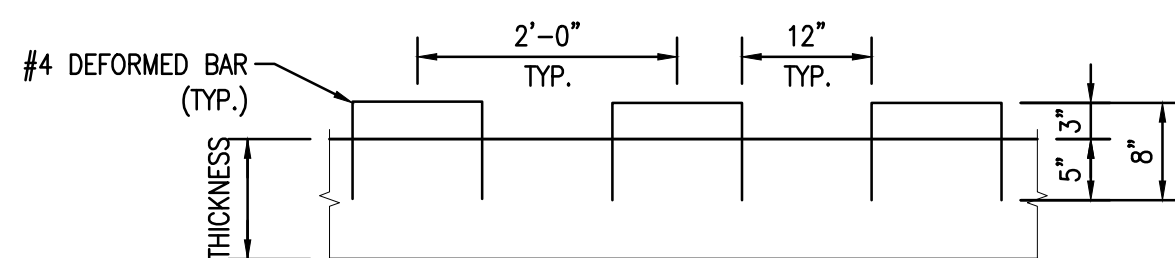
TRANSVERSE BUTT JOINT
(APPLICABLE TO MAJOR STREETS)
SCALE: N.T.S.



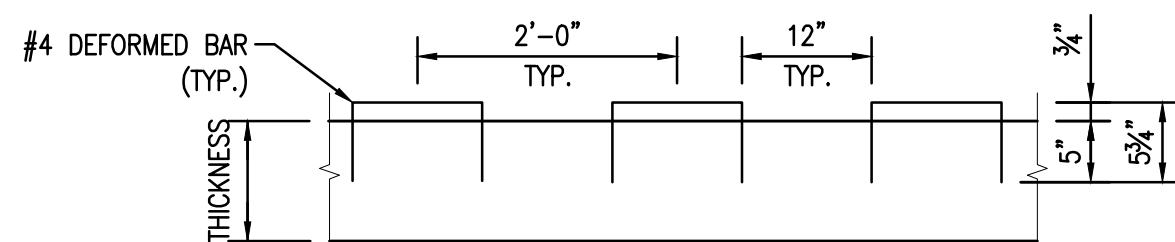
DEFORMED LONGITUDINAL JOINT
(SECTION "C-C")
SCALE: N.T.S.
(ALSO CALLED METAL KEYED JOINT)



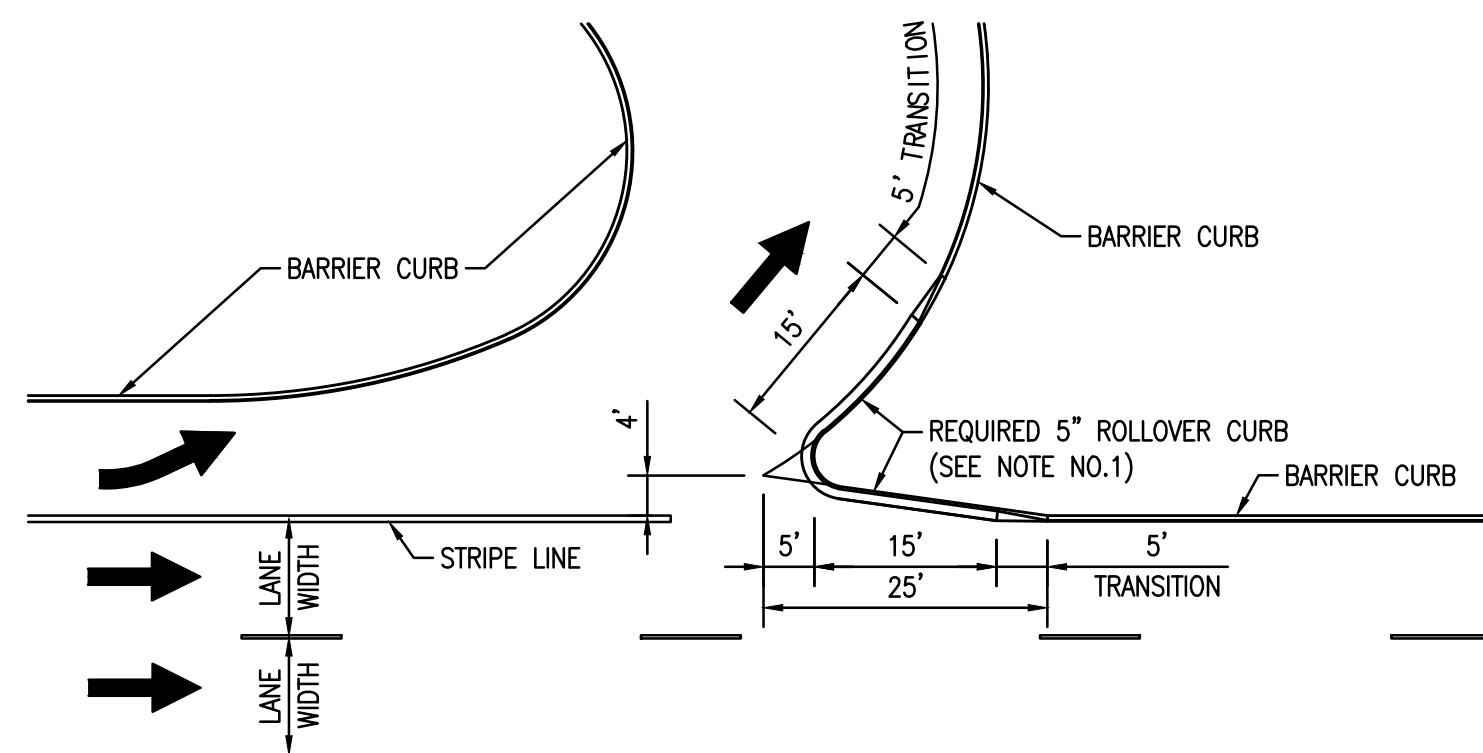
OBLIQUE VIEW METAL PARTING STRIP
FOR DEFORMED LONGITUDINAL JOINT
SCALE: N.T.S.



CURB DOWELS
SCALE: N.T.S.

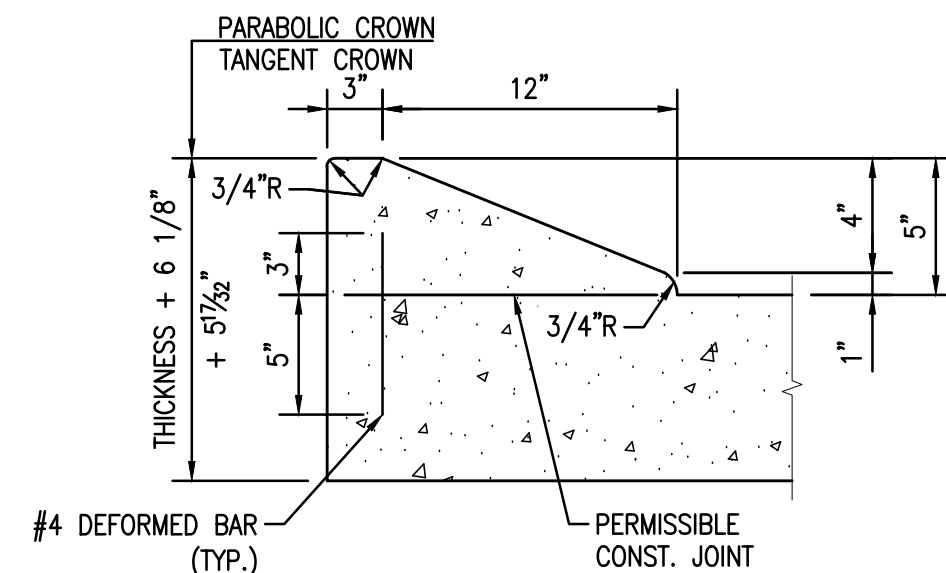


MODIFIED CURB DOWELS
(USED ON MODIFIED BARRIER CURB)
SCALE: N.T.S.

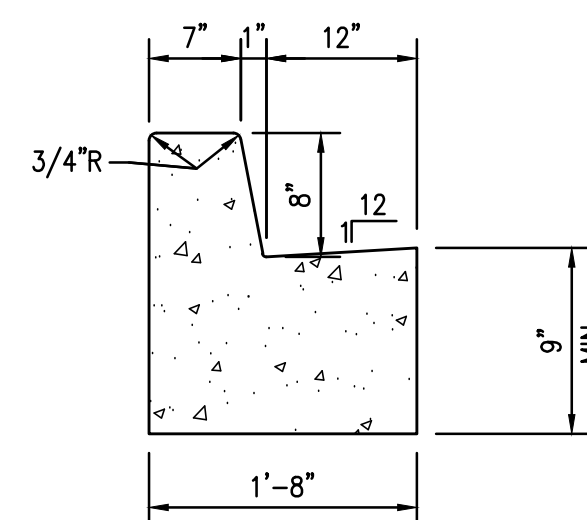


NOTE:
WHERE CURB AND GUTTER IS USED, CONSTRUCT MODIFIED BARRIER CURB AND GUTTER INSTEAD OF MOUNTABLE CURB AND GUTTER.

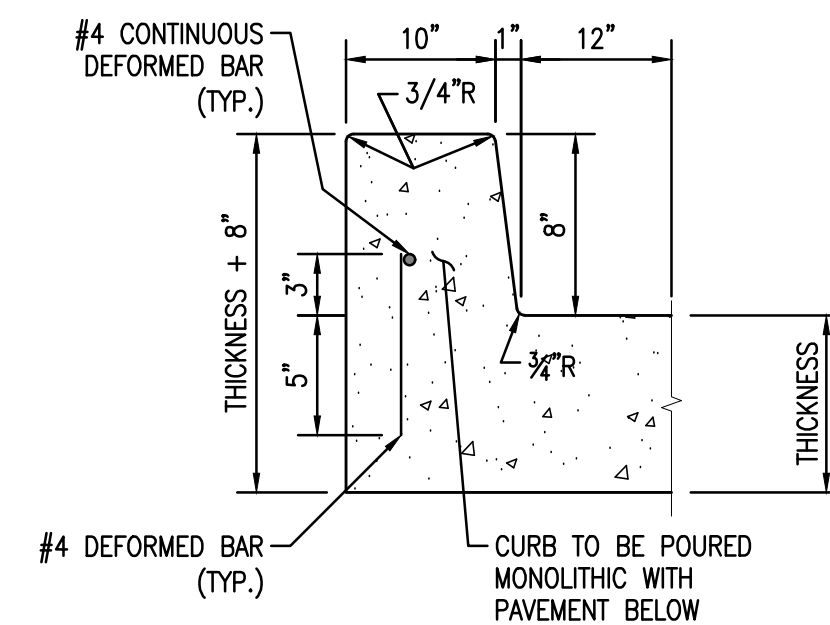
ROLLOVER CURB IN THE GORE AREA
(U-TURN, LEFT TURN LANE OR ROADWAY SPLIT)
SCALE: N.T.S.



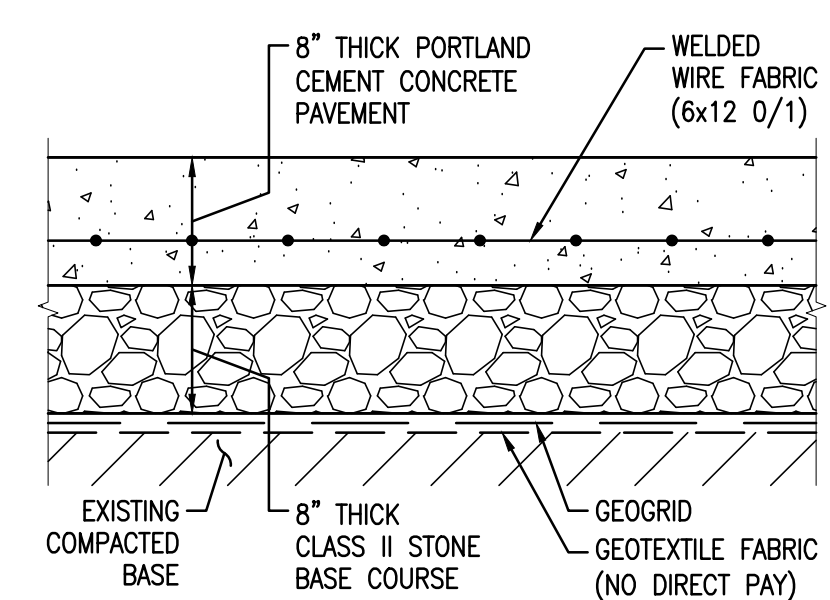
5" HIGH ROLLOVER TYPE
CONCRETE CURB
(CONCRETE PAVEMENT ROADWAY)
SCALE: N.T.S.



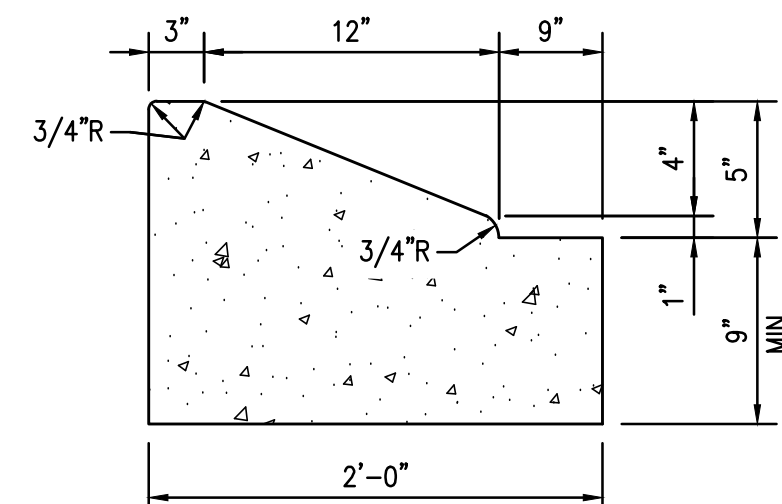
8" HIGH BARRIER TYPE
CONCRETE CURB & GUTTER
(ASPHALT PAVEMENT ROADWAY)
SCALE: N.T.S.



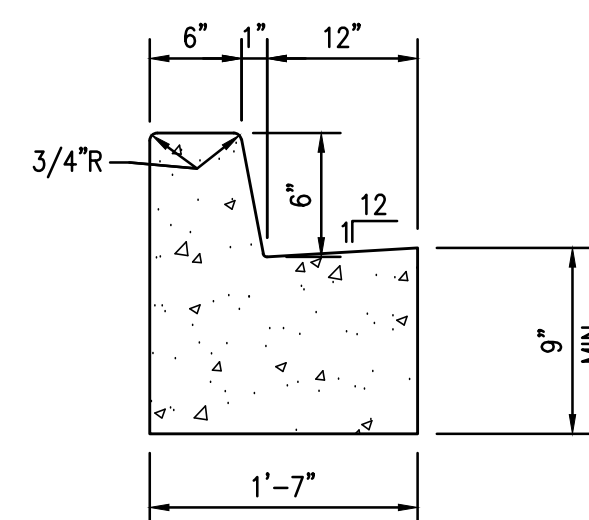
HEAVY DUTY BARRIER TYPE
CONCRETE CURB
(CONCRETE PAVEMENT ROADWAY)
SCALE: N.T.S.



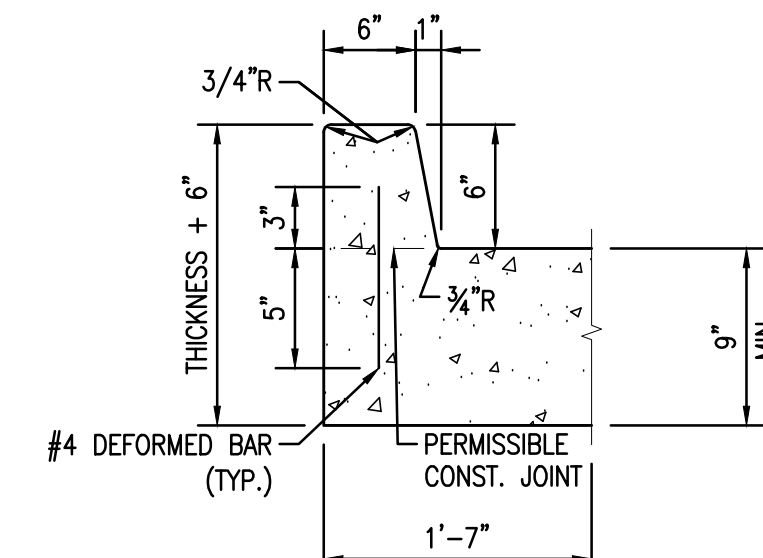
PORTLAND CEMENT CONCRETE
PAVEMENT DETAIL
SCALE: N.T.S.



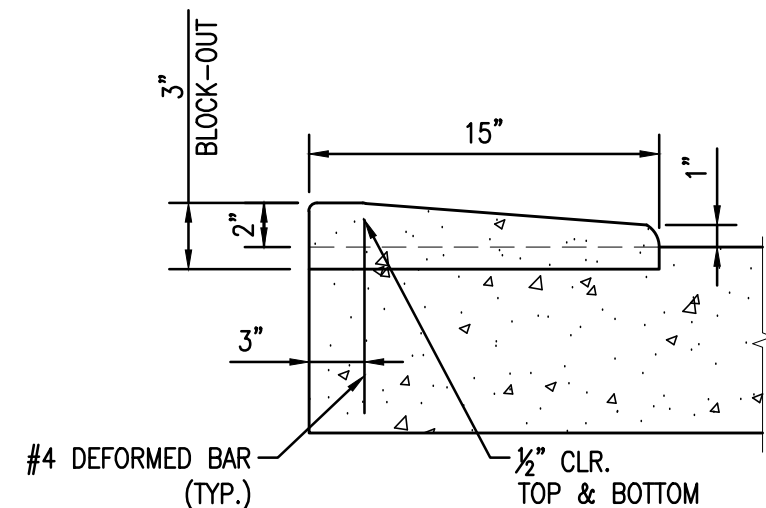
5" HIGH ROLLOVER TYPE
CONCRETE CURB & GUTTER
(ASPHALT PAVEMENT ROADWAY)
SCALE: N.T.S.



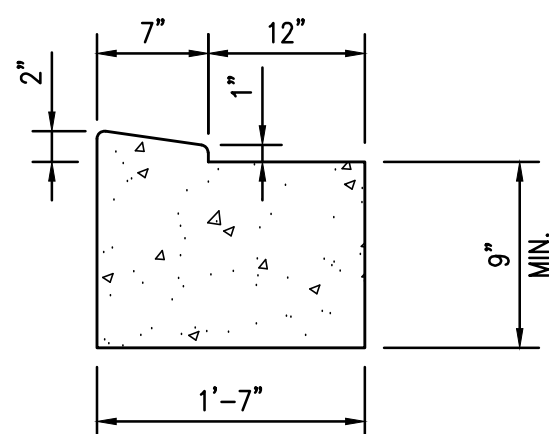
6" HIGH BARRIER TYPE
CONCRETE CURB & GUTTER
(ASPHALT PAVEMENT ROADWAY)
SCALE: N.T.S.



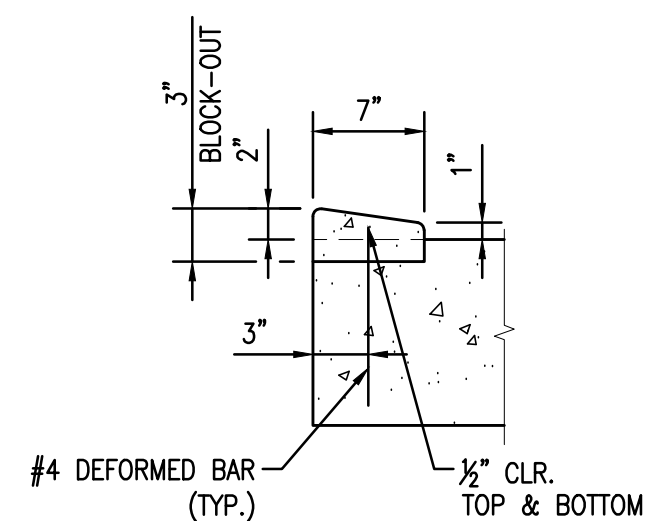
6" HIGH BARRIER TYPE
CONCRETE CURB
(CONCRETE PAVEMENT ROADWAY)
SCALE: N.T.S.



MODIFIED ROLLOVER CURB
SCALE: N.T.S.



MODIFIED BARRIER
CURB & GUTTER
SCALE: N.T.S.

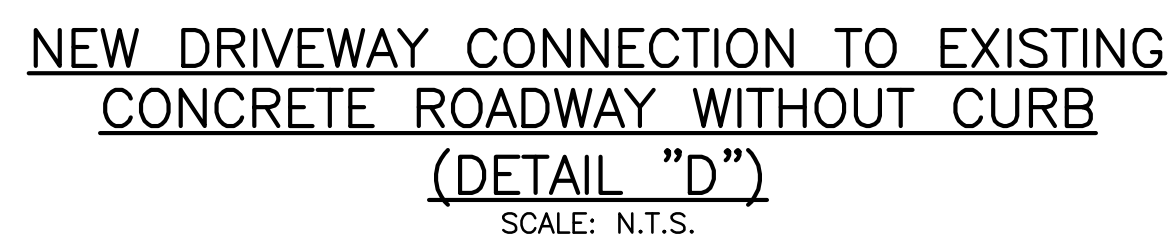
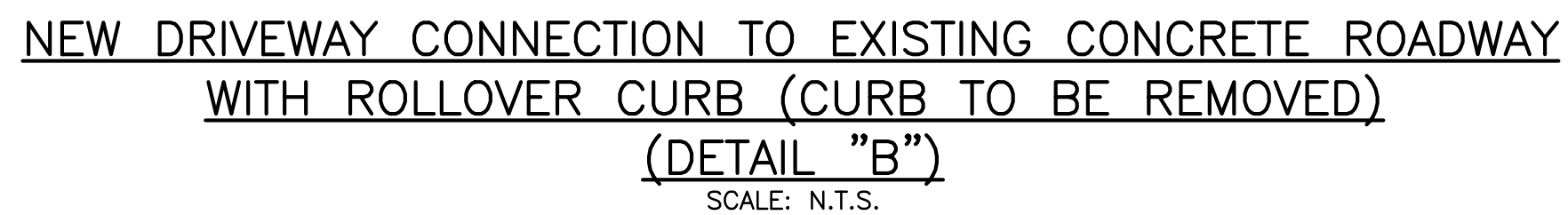
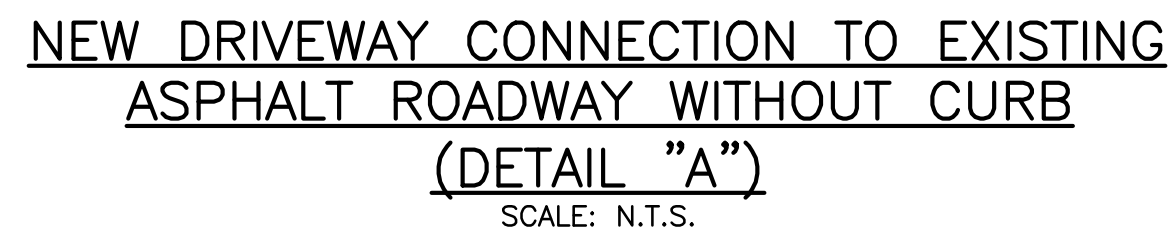


MODIFIED BARRIER CURB
SCALE: N.T.S.

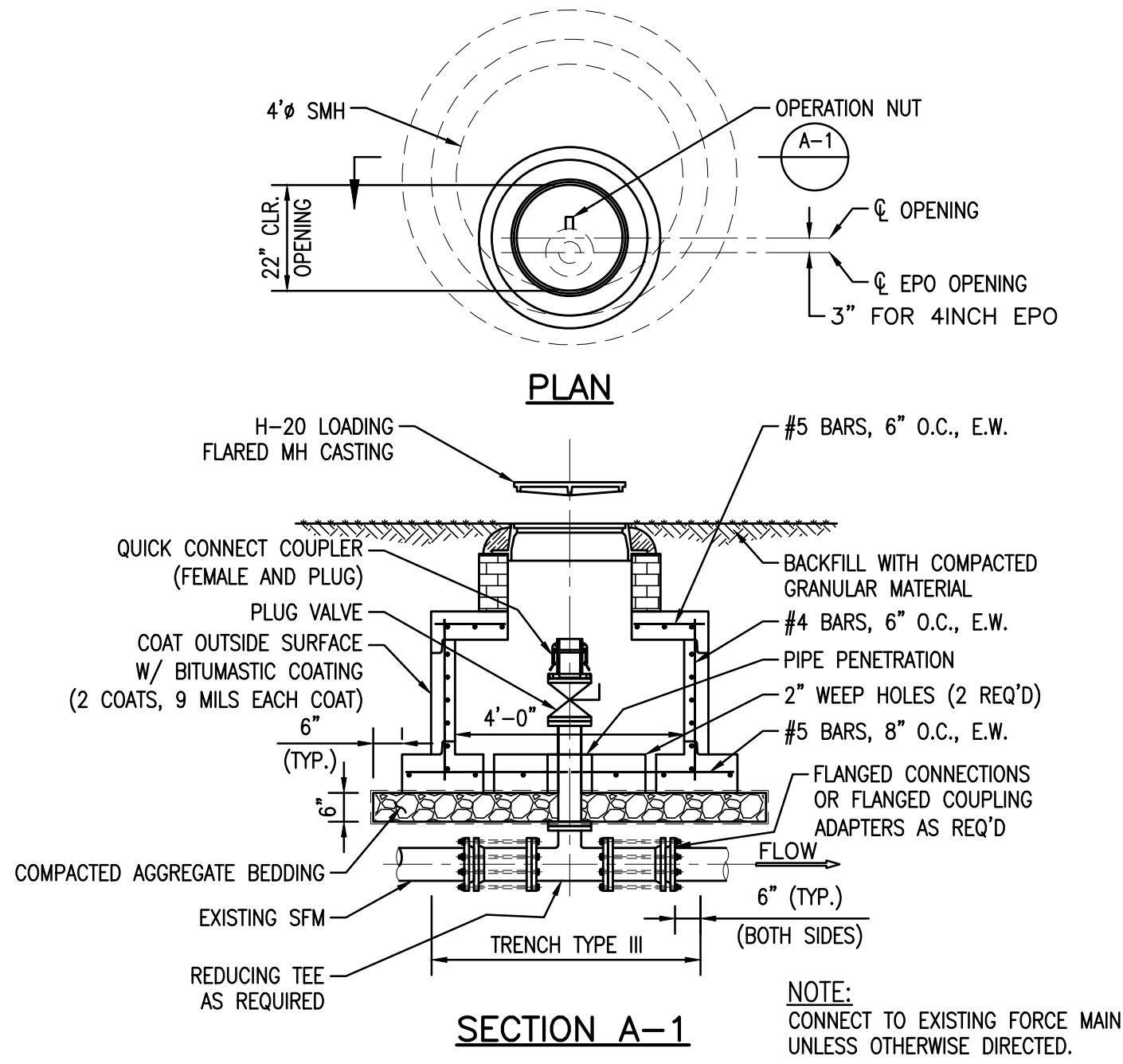
ST. JOHN SEWER MAINTENANCE DETAILS	TYPICAL DETAILS #5	NO.	DATE	BY	REVISION OR CHANGE ORDER DESCRIPTION	JPT DESIGNED	JPT CHECKED	JPT NLH	JPT NLH	CITY	PARISH	STATE	LOUISIANA
						JPT NLH	JPT NLH	JPT NLH	JPT NLH	ST. JOHN THE BAPTIST	ST. JOHN THE BAPTIST	LOUISIANA	LOUISIANA
						JUNE 2026	JUNE 2026	JUNE 2026	JUNE 2026	ST. JOHN THE BAPTIST	ST. JOHN THE BAPTIST	LOUISIANA	LOUISIANA
						PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER	PROJECT NUMBER	ST. JOHN THE BAPTIST	ST. JOHN THE BAPTIST	LOUISIANA	LOUISIANA



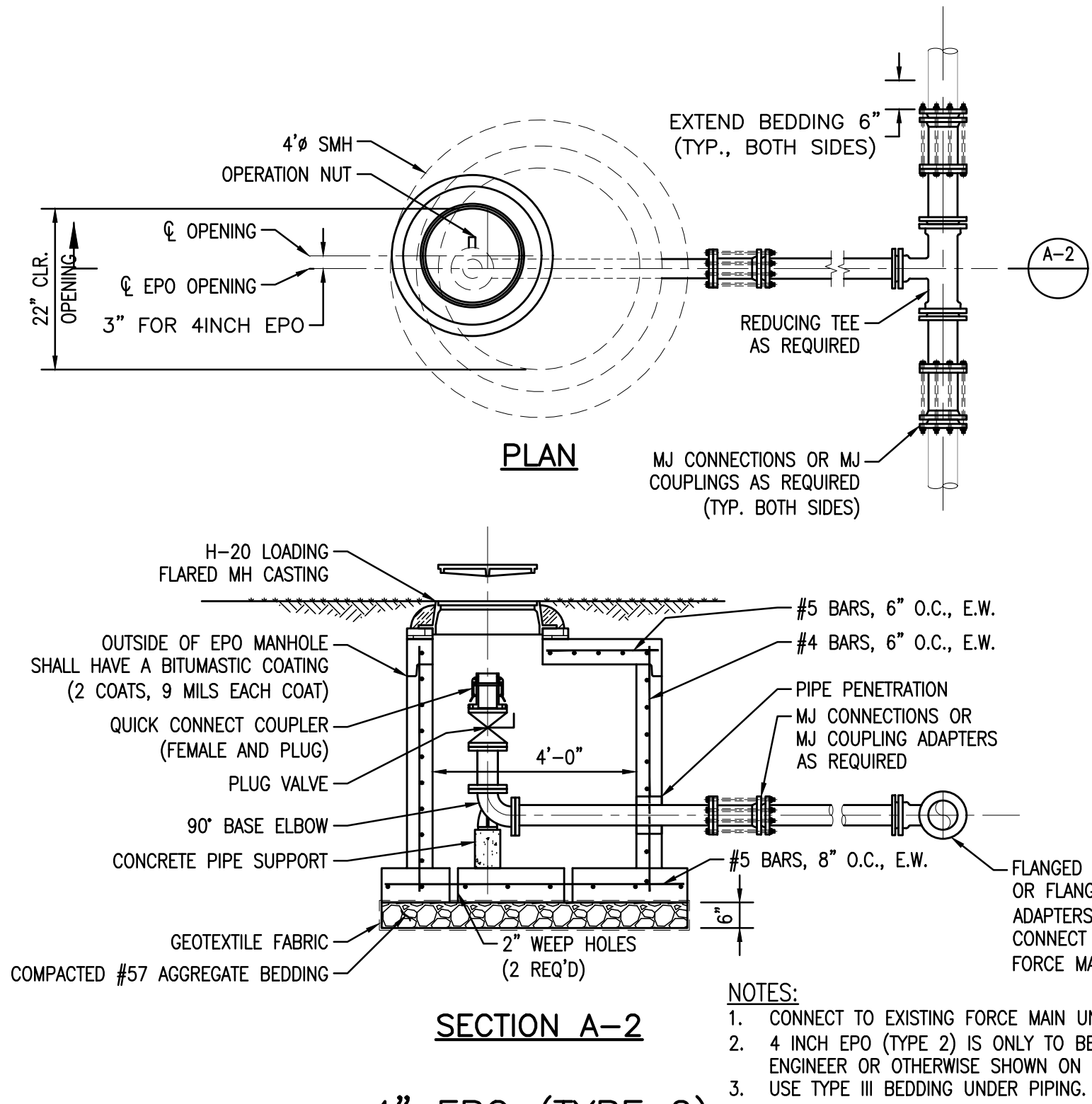
- DRIVEWAY NOTES:**
- *1. DRIVEWAY WIDTH SHALL BE AS DIRECTED BY PROJECT ENGINEER IN FIELD.
 - **2. LIMITS OF DRIVEWAYS SHALL BE AS DIRECTED BY PROJECT ENGINEER IN THE FIELD.
 - ***3. LIMITS OF SIDEWALK REMOVAL TO BE DETERMINED IN FIELD BY PROJECT ENGINEER.
 - 4. DRIVEWAYS SHALL BE REINFORCED WITH 6"x12" 0/1 WELDED WIRE FABRIC (W16xW8).
 - *****5. FLARE WIDTHS MAY HAVE TO BE ADJUSTED TO MEET FIELD CONDITIONS. PROJECT ENGINEER SHALL DIRECT CONTRACTOR IN FIELD.
 - 6. DRIVEWAY SLOPE SHALL NOT EXCEED 7% WITHOUT WRITTEN APPROVAL FROM PROJECT ENGINEER.
 - 7. NO WORK SHALL BE PERFORMED ON PRIVATE PROPERTY UNLESS THE PARISH HAS OBTAINED A RIGHT OF ENTRY FROM THE PROPERTY OWNER.
 - 8. MATCH EXISTING DRIVEWAY MATERIALS "IN KIND". (EXP. AGGREGATE, BRICK, ETC...) 9) IF PROJECT ENGINEER DETERMINES THAT TYPICAL DRIVEWAY DETAIL IS NOT FEASIBLE, CONTRACTOR TO REPLACE "IN KIND".
 - 9. SIDEWALK AND DRIVEWAY APRON THICKNESS SHALL BE 6" FOR RESIDENTIAL.
 - 10. TRANSITIONS WHERE SIDEWALKS MEET DRIVEWAYS SHALL NOT EXCEED THE MAXIMUM ALLOWABLE SLOPE OF 2.00%
 - 11. EXPANSION JOINTS WILL BE REQUIRED ALONG RIGHT-OF-WAY (R.O.W.) LINE OR SERVITUDE LINE. (SEE DETAIL B) (APPLICABLE IN ALL SITUATIONS)
 - 12. METAL KEYED JOINTS NEEDED FOR DRIVEWAYS GREATER THAN 16 FEET IN WIDTH.
 - 13. DRIVEWAYS CONSTRUCTION OF PORTLAND CEMENT CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF FOUR THOUSAND (4000) POUNDS PER SQUARE INCH IN FOURTEEN (14) DAYS.



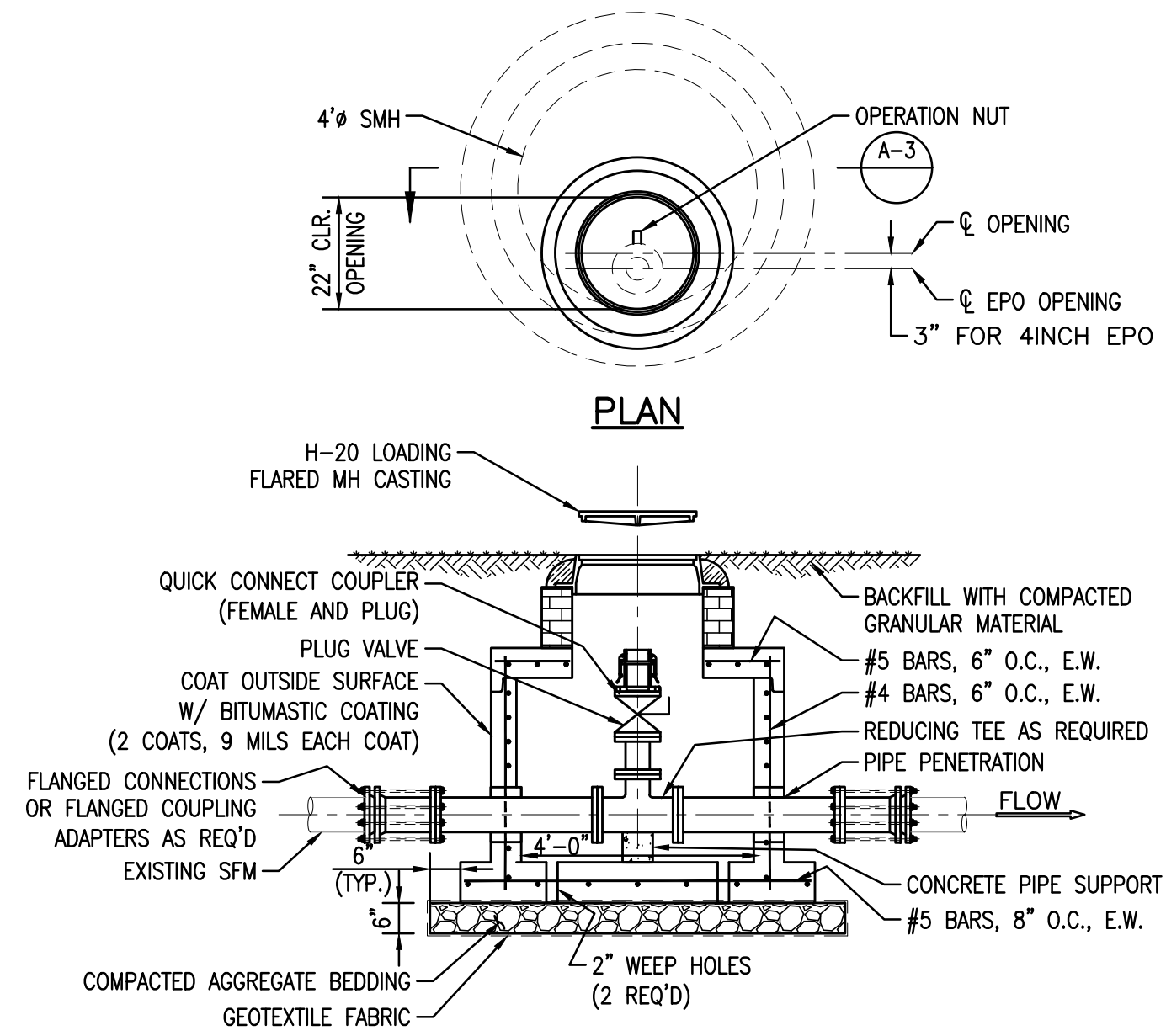
ST. JOHN SEWER MAINTENANCE DETAILS				DESIGNED CHECKED JP T NLH DETAILED CHECKED		JP T NLH CITY	
SERIES NUMBER	6 of 8			DATE		JUNE 2026	
SHEET NUMBER	STJ-06			PROJECT NUMBER		BID NUMBER	
TYPICAL DETAILS #6		NO.		DATE		BY	
				REVISION OR CHANGE ORDER DESCRIPTION			



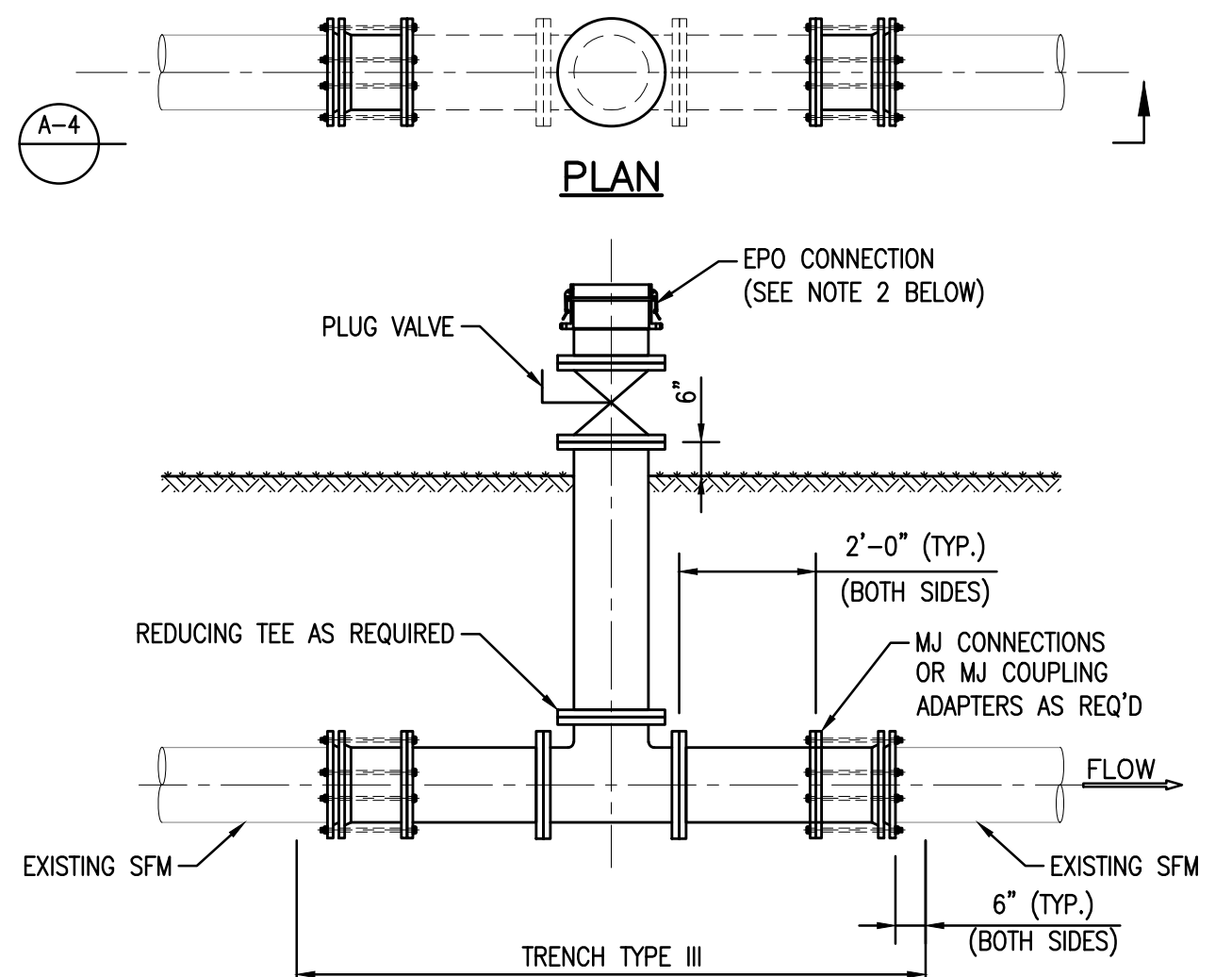
4" EPO (TYPE 1)
SCALE: N.T.S.



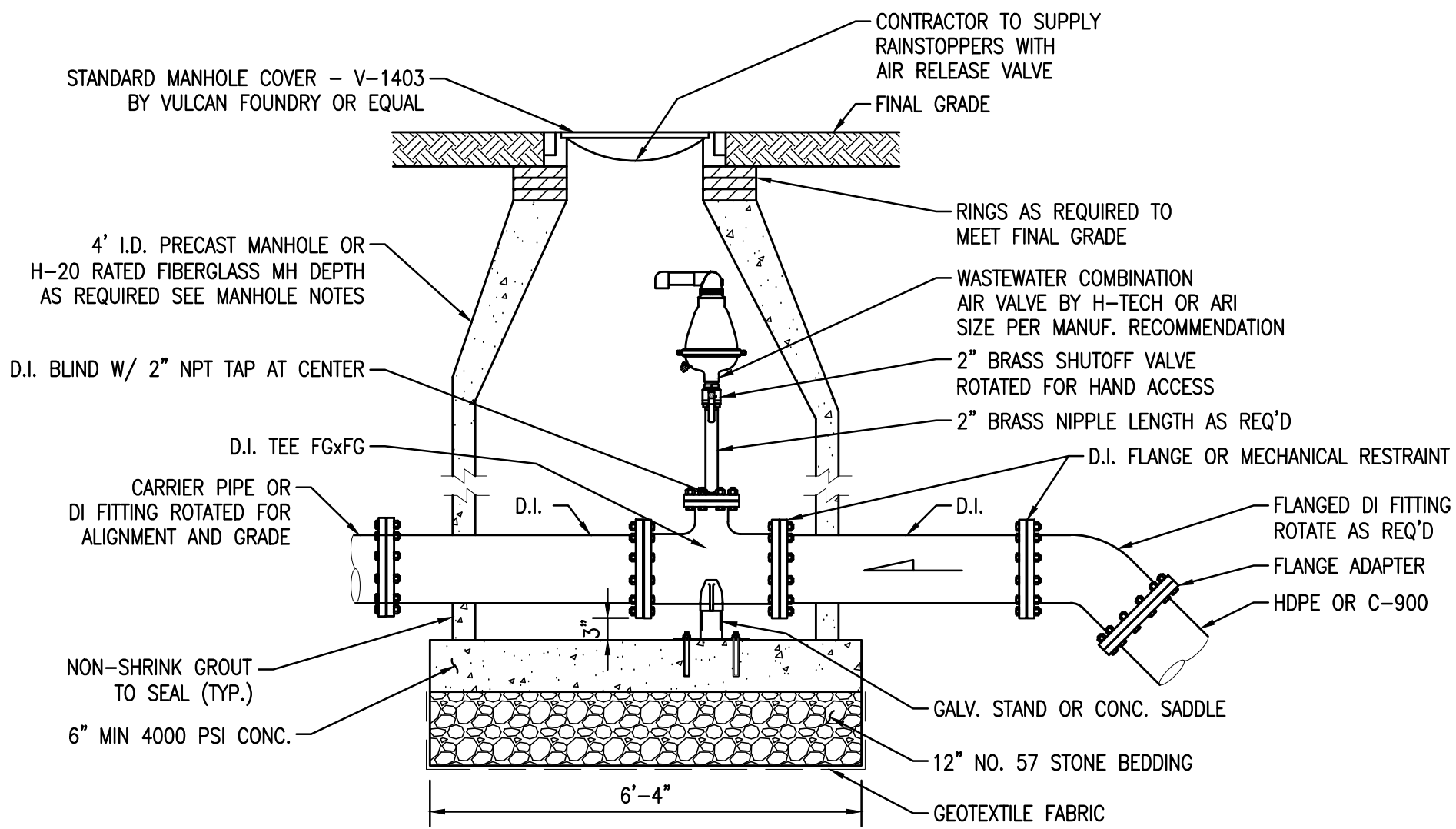
4" EPO (TYPE 2)
SCALE: N.T.S.



4" EPO (TYPE 3)
SCALE: N.T.S.



6", 8" & 12" EPO (TYPE 4)
SCALE: N.T.S.



COMBINATION AIR VALVE AND MANHOLE
SCALE: N.T.S.

CITY	PARISH	STATE	PROJECT NUMBER	DATE	NO.	REVISION OR CHANGE ORDER DESCRIPTION	BY
ST. JOHN THE BAPTIST	LOUISIANA	JUNE 2026	BID NUMBER				
ST. JOHN SEWER	MAINTENANCE DETAILS	TYPICAL DETAILS #3	8 of 8	STJ-08			