

FROM:

Wallace C. Drennan, Inc.
Post Office Box 15438
New Orleans, LA 70175-5438

LOUISIANA CONTRACTOR'S LICENSE NO.: **1033**

SEALED BID TO:

West Bank Purchasing Department
Paul D. Connick, Sr., Emergency Operations & Communications Ctr.
910 3rd Street
Gretna, LA 70053

SEALED BID FOR:

Improvements to David Dr. & York St. Sewer Lift Station D6-9
Project No. D55101
Proposal No. 50-00125075

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(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: APTIM, Inc. and dated: August 2018.
(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) #1, 3/18/19 #2, 3/21/19.

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:

One million ninety seven thousand two hundred seventy six Dollars (\$ 1,097,276.00)
and no cents

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:

N/A Dollars (\$ N/A)

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

N/A Dollars (\$ N/A)

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

N/A Dollars (\$ N/A)

NAME OF BIDDER: Wallace C. Drennan, Inc.

ADDRESS OF BIDDER: P.O. Box 15438, New Orleans, LA 70175-5438

LOUISIANA CONTRACTOR'S LICENSE NUMBER: # 1033

NAME OF AUTHORIZED SIGNATORY OF BIDDER: John B. Peak

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: Vice President

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER:** 

DATE: March 26, 2019

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 RS 38:2218.A is attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(Owner to provide name of project and other identifying information)

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:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> MOBILIZATION AND DEMOBILIZATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
001	1	LUMP SUM	\$ 188,000.00	\$ 188,000.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> CONSTRUCTION LAYOUT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
002	1	LUMP SUM	\$ 15,000.00	\$ 15,000.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> GENERAL EXCAVATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
003	145	CUBIC YARD	\$ 5.00	\$ 725.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> REMOVAL OF STRUCTURES AND OBSTRUCTIONS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
004	1	LUMP SUM	\$20,000.00	\$20,000.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> REMOVAL OF 8" DIAMETER SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
005	40	LINEAR FOOT	\$ 5.00	\$ 200.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 4" DIAMETER PVC FOR ODOR CONTROL UNIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
006	7	LINEAR FOOT	\$ 250.00	\$ 1,750.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 8" DIAMETER PVC C-905 SFM EXTENSION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
007	46	LINEAR FOOT	\$ 333.00	\$ 15,318.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 8" DIAMETER DUCTILE IRON SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
008	38	LINEAR FOOT	\$ 100.00	\$ 3,800.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 12" DIAMETER PVC C-905 SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
009	541	LINEAR FOOT	\$ 88.00	\$ 47,608.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 18" DIAMETER PVC C-905 GRAVITY SEWER LINE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
010	150	LINEAR FOOT	\$ 233.00	\$ 34,950.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> DUCTILE IRON SFM FITTINGS & APPURTENANCES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION <i>(Quantity times Unit Price)</i>
011	2840	POUNDS	\$ 1.00	\$ 2,840.00

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.

Bid Proposal No. 50-00125075

PBF-5

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# SUBMERSIBLE PUMPS - COMPLETE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
012	2	EACH	\$ 44,000.00	\$ 88,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CONTROL PANEL AND DRIVES - COMPLETE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
013	2	EACH	\$ 10,000.00	\$ 20,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# LS APPURTENANCES (VALVES, FITTINGS, PIPING, RAILS, HATCHES)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
014	1	LUMP SUM	\$ 66,000.00	\$ 66,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ELECTRICAL PANELS & WIRING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
015	1	LUMP SUM	\$ 20,000.00	\$ 20,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# PLUG, FILL & ABANDON EXISTING 8" SFM LINE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
016	187	LINEAR FOOT	\$ 5.00	\$ 935.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8' DIAMETER FIBERGLASS WET WELL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
017	1	EACH	\$ 66,000.00	\$ 66,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8' DIAMETER FIBERGLASS VALVE PIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
018	1	EACH	\$ 110,000.00	\$ 110,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS A REINFORCED CONCRETE – TOP SLAB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
019	17	CUBIC YARD	\$ 1,000.00	\$ 17,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS A REINFORCED CONCRETE – WET WELL & VALVE PIT BOTTOM SLABS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
020	18	CUBIC YARD	\$ 1,000.00	\$ 18,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS B TIMBER PILE (8" DIA. TIP, 12" DIA. BUTT)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
021	885	LINEAR FOOT	\$ 44.00	\$ 38,940.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# MISCELLANEOUS ELECTRICAL WORK & LABOR			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
022	1	LUMP SUM	\$ 2,600.00	\$ 2,600.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 48" DIAMETER SEWER MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
023	1	EACH	\$ 10,000.00	\$ 10,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EMERGENCY PUMP OUT (DUCTILE IRON) & FIBERGLASS MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
024	1	EACH	\$ 16,000.00	\$ 16,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CONVERT EXISTING WET WELL TO MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
025	1	LUMP SUM	\$ 10,000.00	\$ 10,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TIE-IN TO EXISTING 14" SFM			

REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
026	1	LUMP SUM	\$ 16,000.00	\$ 16,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# OLD LIFT STATION DEMOLITION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
027	1	LUMP SUM	\$ 1,000.00	\$ 1,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ODOR CONTROL UNIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
028	1	EACH	\$ 5,000.00	\$ 5,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# LANDSCAPING SOD (MATCH EXISTING GRASS TYPE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
029	350	SQUARE YARD	\$ 8.00	\$ 2,800.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# PRE & POST SEWER SYSTEM VIDEO			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
030	205	LINEAR FOOT	\$ 10.00	\$ 2,050.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 4" TEMPORARY ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
031	100	SQUARE YARD	\$ 50.00	\$ 5,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 7" THICK PORTLAND CONCRETE CEMENT DRIVE PAVEMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
032	83	SQUARE YARD	\$ 120.00	\$ 9,960.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# BARRIER CONCRETE CURB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
033	80	LINEAR FOOT	\$ 1,200.00	\$ 96,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 6" THICK BASE COURSE FOR ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
034	100	SQUARE YARD	\$ 33.00	\$ 3,300.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# BEDDING MATERIAL (#57 STONE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
035	50	CUBIC YARD	\$ 66.00	\$ 3,300.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# WET WELL BY-PASSING PLAN			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
036	1	LUMP SUM	\$ 15,000.00	\$ 15,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TEMPORARY RETAINING STRUCTURE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
037	1	LUMP SUM	\$ 66,000.00	\$ 66,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TRAFFIC CONTROL (INCLUDE TEMPORARY SIGNS AND BARRICADES)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
038	1	LUMP SUM	\$ 16,000.00	\$ 16,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# REMOVE & REINSTALL PELICAN CAR WASH SIGNAGE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
039	1	LUMP SUM	\$ 5,000.00	\$ 5,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EXPLORATORY EXCAVATION AND VERIFICATION OF EXISTING UTILITIES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)

040	5	EACH	\$ 600.00	\$ 3,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EMBANKMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
041	28	CUBIC YARD	\$ 100.00	\$ 2,800.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 6" THICK CONCRETE SIDEWALK (SLAB)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
042	5	SQUARE YARD	\$ 200.00	\$ 1,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ENTERGY FEE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
043	1	LUMP SUM	\$30,000.00	\$30,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S GENERAL LIABILITY INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
044	1	LUMP SUM	\$ 100.00	\$ 100.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S AUTOMOTIVE INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
045	1	LUMP SUM	\$ 100.00	\$ 100.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS NAMED INSURED ON BUILDER'S RISK INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
046	1	LUMP SUM	\$ 100.00	\$ 100.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST OF CONTRACTOR'S OWNERS PROTECTION LIABILITY INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
047	1	LUMP SUM	\$ 100.00	\$ 100.00

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.



Insurance Document
Management
System 3.0

Bond Number: SLA19720518

Contractor Information

Principal: Wallace C. Drennan, Inc.

Address: P.O. Box 15438 New Orleans LA 70175

Owner/Obligee Information

Bond Form: Bid Bond in accordance with Contract Specifications

Owner/Obligee: Jefferson Parish

Address: 200 Derbigny Street, Suite 4400 Gretna LA 70053

Bond Information

Surety: The Hanover Insurance Co

Bid Date: 3/26/2019 2:00:00 PM

Estimated Contract Price:

Time For Completion:

Liquidated Damages:

Estimated Work On Hand:

Amount of Bid Security: Five Percent (5%) of the Amount Bid

Contract # or IFB #: 50-00125075

Description of Job: Improvements to David & York Sewer Lift Station D6-9, SCIP
Project No. D55101

Job Breakdown:

Electronic Bidding Information

Bid Security Percentage: 5

Bid Security Maximum: 0

Owner Assigned Contractor Number: BX268

Primary Agency:

Cory, Tucker & Larrowe, Inc

Power of Attorney Limited to: \$20,000,000

Executed

Entered By: - 3/25/2019 10:51:05 AM ET

Approved & Executed By:

Pamela K. Tucker

Pamela K. Tucker (Signed: 25-Mar-2019 10:51 AM EDT (UTC-04:00))

[Signature Information](#)

Know all men by these presents that The Hanover Insurance Co, a Corporation duly organized under the laws of the State of New Hampshire, are held and firmly bound unto the above owner/obligee by this transmission. The surety agrees to waive the Statute of

Fraud defense and further agrees that the owner/obligee is a third party beneficiary of the waiver for the purposes of enforcing this bid bond.

© S2000, Inc.

Document ID: S2000-1000996902



DRENNAN-02

LBARBER

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/20/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Cory, Tucker & Larowe, Inc. P. O. Box 6646 Metairie, LA 70009-6646	CONTACT NAME:	
	PHONE (A/C, No, Ext): (504) 834-5080	FAX (A/C, No): (504) 835-7726
INSURED Wallace C. Drennan, Inc. 1500 Nine Mile Point Road Westwego, LA 70094	E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE	
	INSURER A: Zurich American Insurance Company	
	INSURER B: Allied World Assurance Company	
	INSURER C:	
	INSURER D:	
	INSURER E:	
INSURER F:		
NAIC #		

16535

COVERAGES

CERTIFICATE NUMBER:

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PROJECT <input type="checkbox"/> LOC OTHER:	X	X	GLO 3757536 12	2/1/2019	2/1/2020	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY	X	X	BAP 3757535 12	2/1/2019	2/1/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED <input checked="" type="checkbox"/> RETENTION \$ 10,000	X	X	0311-1709	2/1/2019	2/1/2020	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000
A	<input checked="" type="checkbox"/> WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N If yes, describe under DESCRIPTION OF OPERATIONS below N	N/A	X	WC 3757534 12	2/1/2019	2/1/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
For Bid Purposes Only - Improvements to David Drive and York Street Sewer Lift Station D6-9.
Bid No. 50-00125075

CERTIFICATE HOLDER

CANCELLATION

Jefferson Parish Government
Westbank Purchasing Dept.
910 3rd Street
Gretna, LA 70053

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Public Works Bid

AFFIDAVIT

STATE OF Louisiana

PARISH/COUNTY OF St. Tammany

BEFORE ME, the undersigned authority, personally came and appeared: _____
John B. Peak, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized Vice President of Wallace C. Drennan, Inc (Entity),
the party who submitted a bid in response to Bid Number 50-00125075, to the Parish of
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

That no part of the contract price received by Affiant 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 in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Affiant further said:

Affiant personally has not been convicted of, nor has he/she entered into a plea of guilty or nolo contendere to any of the crimes or equivalent federal crimes listed below. No individual partner, incorporator, director, manager, officer, organizer, or member, who has a minimum of a ten percent ownership in the Bidding Entity, has been convicted of, or has entered a plea of guilty or nolo contendere to any of the crimes or equivalent federal crimes listed below. A conviction of or plea of guilty or nolo contendere to the following state crimes or equivalent federal crimes shall permanently bar any person or the bidding entity from bidding on public projects:

- (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)

A conviction of or plea of guilty or nolo contendere to the following state crimes or equivalent federal crimes shall bar any person or the bidding entity from bidding on public projects for a period of five years from the date of conviction or from the date of the entrance of the plea of guilty or nolo contendere:

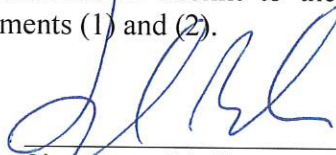
- (a) Theft (R.S. 14:67)
- (b) Identity Theft (R.S. 14:67, 16)
- (c) Theft of a business record (R.S. 14:67.20)
- (d) False accounting (R.S. 14:70)
- (e) Issuing worthless checks (R.S. 14:71)
- (f) Bank fraud (R.S. 14:71.1)
- (g) Forgery (R.S. 14:72)
- (h) Contractors; misapplication of payments (R.S. 14:202)
- (i) Malfeasance in office (R.S. 14:134)

The five-year prohibition provided for in this section shall apply only if the crime was committed during the solicitation or execution of a contract or bid awarded pursuant to these provisions. If evidence is submitted substantiating that a false attestation has been made and the project must be readvertised or the contract cancelled, the awarded entity making the false attestation shall be responsible to the public entity for the costs of rebidding, additional costs due to increased costs of bids and any and all delay costs due to the rebid or cancellation of this project.

[The remainder of this page is intentionally left blank.]

Affiant further said:

- (1) Entity is registered and participates in a status verification system to verify that all employees in the State of Louisiana are legal citizens of the United States or are legal aliens.
- (2) Entity shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the State of Louisiana.
- (3) Entity shall require all subcontractors to submit to the Entity a sworn affidavit verifying compliance with statements (1) and (2).



Signature of Affiant

John B. Peak

Printed Name of Affiant Vice-President

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 11th DAY OF March, 2019.



Notary Public

Printed Name of Notary

Notary/Bar Roll Number

My commission expires _____.

ADAM B. BECKMAN
Notary Public
Bar No. 34243 | Notary No. 148447
State of Louisiana
My Commission is for Life.

AFFIDAVIT PURSUANT TO LA R.S. 38:2227, 38:2212.10 AND 38:2224 FOR BIDDERS FOR PUBLIC WORK CONTRACTS

STATE OF LOUISIANA
PARISH OF St. Tammany

BEFORE ME, the undersigned authority, duly commissioned and qualified and sworn in and for the State and Parish aforesaid, personally came and appeared **John B. Peak, Vice-President of Operations**, who after being duly sworn, did depose and say as follows:

LA. R.S. 38:2212.10(C) VERIFICATION OF EMPLOYEES INVOLVED IN CONTRACTS FOR PUBLIC WORKS

- A. At the time of bidding, bidder is registered and participates in a status verification system to verify that all new hires in the state of Louisiana are legal citizens of the United States or are legal aliens.
- B. If awarded the contract, bidder shall continue, during the term of the contract, to utilize a status verification system to verify the legal status of all new employees in the state of Louisiana.
- C. If awarded the contract, bidder shall require all subcontractors to submit to it a sworn affidavit verifying compliance with Paragraphs (A) and (B) of this Subsection.

LA. R.S. 38:2224 NON-COLLUSION AND NON-SOLICITATION

- A. The bidder employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the bidder whose services in connection with the construction of the public building or project or in securing the public contract were in the regular course of their duties for bidder.
- B. That no part of the contract price received by bidder was paid or will be paid to any persons, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the bidder whose services in connection with construction of the public building or project were in the regular course of their duties for bidder.
- C. Said bid is genuine and the bidder has not colluded, conspired, or agreed, directly or indirectly, with any other bidder to offer a sham or collusive bid.
- D. Said bidder has not in any manner, directly or indirectly, agreed with any other person to fix the bid price of affiant or any other bidder, or to fix any overhead profit or cost element of said bid price, or that of any other bidder, or to induce any other person to refrain from bidding.
- E. Said bidder is not intended to secure an unfair advantage of benefit from the Owner or in favor of any person interested in the proposed contract.
- F. All statements contained in said bid are true and correct.
- G. Neither affiant nor any member of his company has divulged information regarding said bid or any data relative thereto to any other person, firm, or corporation.

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

- 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 below 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 as listed below:
 - (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. 14:23)
- B. Within the past five years from 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 below 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 a business record (R.S. 14:67.20)
 - (d) False accounting (R.S. 14:70)
 - (e) Issuing worthless checks (R.S. 14:71)
 - (f) Bank fraud (R.S. 14:71.1)
 - (g) Forgery (R.S. 14:72)
 - (h) Contractors; misapplication of payments (R.S. 14:202)
 - (i) Malfeasance in office (R.S. 14:134)

Wallace C. Drennan, III is 100% owner of Wallace C. Drennan, Inc. and no other person (s) hold an ownership interest in the bidding entity via a counter letter. He is not delinquent on any taxes owed the City of New Orleans or fees/charges to the Sewerage and Water Board (City Code Section 2-8).

I hereby certify that the information herein is true and correct to the best of my knowledge, information, and belief.

Witnesses:

Signature: _____

Printed Name: _____

John B. Peak

Title: _____

Vice-President of Operations

Entity Name: _____

Wallace C. Drennan, Inc.

Sworn to and subscribed before me on 11th day of March, 2019.

Notary Public: _____

Commission expires: _____

ADAM B. BECKMAN
Notary Public
Bar No. 34243 | Notary No. 148447
State of Louisiana
My Commission is for Life.

CERTIFIED COPY OF
EXCERPT OF MINUTES OF A SPECIAL MEETING
OF THE BOARD OF DIRECTORS OF
WALLACE C. DRENNAN, INC.

Held on April 5, 2016
1500 Nine Mile Point Road
Westwego, LA

I, Teresa S. Deemer, Secretary of Wallace C. Drennan, Inc., do hereby certify the following to be a true and correct excerpt of the minutes of the meeting of the Directors of the Corporation held on April 5, 2016; and that the following RESOLUTIONS passed at that meeting are still in full force and effect:

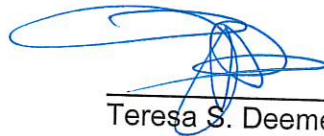
* * *

"...it was further RESOLVED that the Vice-President of Operations, John B. Peak, be authorized to act for Wallace C. Drennan, Inc., in all phases of the operations of its business, to sign all contracts, bid applications and bids, to manage the business of the corporation, to make loans, execute banking resolutions, sign checks, deposit and withdraw funds, execute payment and performance bonds, make purchase of vehicles, equipment, materials and supplies for the corporation; to sell vehicles, equipment materials and supplies of the corporation; or lease or purchase movable or immovable property and improvements on behalf of the corporation; to hire and fire employees; to manage and oversee construction jobs; to estimate and submit bids; to procure advertising packets, bid packages and other documents necessary to formulate bids for construction work; to manage and oversee the maintenance, scheduling and uses of equipment within the corporation; to direct, manage and supervise labor and construction work; generally, without limitation, to sign all documents and perform all acts necessary for the conducting of the operation and business of Wallace C. Drennan, Inc., as its Vice-President of Operations; and also the Vice-President of Operations should have general and specific powers on behalf of the corporation to carry out and work with the Secretary of the corporation in carrying out the banking business of the corporation; to deposit and withdraw funds; to make loans, to sign checks in accordance with the banking resolution contained hereinbelow; to execute mortgages or chattel mortgages, or documents pursuant to the Uniform Commercial Code as necessary to

purchase equipment, materials or property; to execute all necessary banking documents, banking resolutions, loan documents, drafts, continuing guaranties, or other banking documents; and generally to perform any act and execute any document necessary to carry out the banking and financial business of Wallace C. Drennan, Inc., in cooperation with the duties and responsibilities of the Secretary of the corporation."

* * *

Westwego, LA

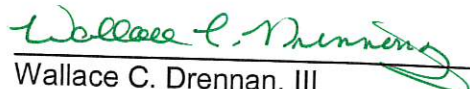


Teresa S. Deemer
Secretary
Wallace C. Drennan, Inc.

CERTIFICATE

I, the undersigned President of Wallace C. Drennan, Inc., do certify that the above and foregoing resolution was unanimously adopted at a meeting of the Board of Directors of the Said Corporation held on April 5, 2016, and that the same is in full force and effect this date.

IN TESTIMONY WHEREOF, I have hereunto set my hand and the seal of said corporation this 26th day of March, 2019.



Wallace C. Drennan, III
President
Wallace C. Drennan, Inc.

CERTIFIED COPY OF
EXCERPT OF MINUTES OF A SPECIAL MEETING
OF THE BOARD OF DIRECTORS OF
WALLACE C. DRENNAN, INC.

Held on April 5, 2016
1500 Nine Mile Point Road
Westwego, LA

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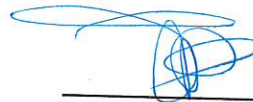
* * *

“...it was further RESOLVED that the President, Wallace C. Drennan, III, be authorized to act for Wallace C. Drennan, Inc., in all phases of the operations of its business, to sign all contracts, bid applications and bids, to manage the business of the corporation, to make loans, execute banking resolutions, sign checks, deposit and withdraw funds, execute payment and performance bonds, make purchase of vehicles, equipment, materials and supplies for the corporation; to sell vehicles, equipment materials and supplies of the corporation; or lease or purchase movable or immovable property and improvements on behalf of the corporation; to hire and fire employees; to manage and oversee construction jobs; to estimate and submit bids; to procure advertising packets, bid packages and other documents necessary to formulate bids for construction work; to manage and oversee the maintenance, scheduling and uses of equipment within the corporation; to direct, manage and supervise labor and construction work; generally, without limitation, to sign all documents and perform all acts necessary for the conducting of the operation and business of Wallace C. Drennan, Inc., as its President; and also the President should have general and specific powers on behalf of the corporation to carry out and work with the Secretary of the corporation in carrying out the banking business of the corporation; to deposit and withdraw funds; to make loans, to sign checks in accordance with the banking resolution contained hereinbelow; to execute mortgages or chattel mortgages, or documents pursuant to the Uniform Commercial Code as necessary to purchase equipment, materials or property;

to execute all necessary banking documents, banking resolutions, loan documents, drafts, continuing guaranties, or other banking documents; and generally to perform any act and execute any document necessary to carry out the banking and financial business of Wallace C. Drennan, Inc., in cooperation with the duties and responsibilities of the Secretary of the corporation."

* * *

Westwego, Louisiana

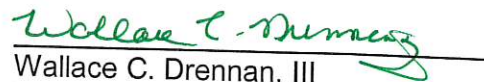


Teresa S. Deemer
Secretary

CERTIFICATE

I, the undersigned President of Wallace C. Drennan, Inc., do certify that the above and foregoing resolution was unanimously adopted at a meeting of the Board of Directors of the Said Corporation held on April 5, 2016, and that the same is in full force and effect this date.

IN TESTIMONY WHEREOF, I have hereunto set my hand and the seal of said corporation this 26th day of March, 2019.



Wallace C. Drennan, III
President

Request for Taxpayer Identification Number and Certification

Give Form to the
requester. Do not
send to the IRS.

Go to www.irs.gov/FormW9 for instructions and the latest information.

Print or type. See Specific Instructions on page 3.	1 Name (as shown on your income tax return). Name is required on this line; do not leave this line blank. Wallace C. Drennan, Inc.	
	2 Business name/disregarded entity name, if different from above	
	3 Check appropriate box for federal tax classification of the person whose name is entered on line 1. Check only one of the following seven boxes. <input type="checkbox"/> Individual/sole proprietor or single-member LLC <input type="checkbox"/> C Corporation <input checked="" type="checkbox"/> S Corporation <input type="checkbox"/> Partnership <input type="checkbox"/> Trust/estate <input type="checkbox"/> Limited liability company. Enter the tax classification (C=C corporation, S=S corporation, P=Partnership) # _____ Note: Check the appropriate box in the line above for the tax classification of the single-member owner. Do not check LLC if the LLC is classified as a single-member LLC that is disregarded from the owner unless the owner of the LLC is another LLC that is not disregarded from the owner for U.S. federal tax purposes. Otherwise, a single-member LLC that is disregarded from the owner should check the appropriate box for the tax classification of its owner. <input type="checkbox"/> Other (see instructions) ▶	
	4 Exemptions (codes apply only to certain entities, not individuals; see instructions on page 3): Exempt payee code (if any) _____ Exemption from FATCA reporting code (if any) _____ (Applies to accounts maintained outside the U.S.)	
	5 Address (number, street, and apt. or suite no.) See instructions. P. O. Box 15438	Requester's name and address (optional)
	6 City, state, and ZIP code New Orleans, LA 70175	
	7 List account number(s) here (optional)	

Part I Taxpayer Identification Number (TIN)

Enter your TIN in the appropriate box. The TIN provided must match the name given on line 1 to avoid backup withholding. For individuals, this is generally your social security number (SSN). However, for a resident alien, sole proprietor, or disregarded entity, see the instructions for Part I, later. For other entities, it is your employer identification number (EIN). If you do not have a number, see *How to get a TIN*, later.

Note: If the account is in more than one name, see the instructions for line 1. Also see *What Name and Number To Give the Requester* for guidelines on whose number to enter.

Social security number									
			-						
OR									
Employer identification number									
7	2		-	0	5	2	1	7	3

Part II Certification

Under penalties of perjury, I certify that:

- The number shown on this form is my correct taxpayer identification number (or I am waiting for a number to be issued to me); and
- I am not subject to backup withholding because: (a) I am exempt from backup withholding, or (b) I have not been notified by the Internal Revenue Service (IRS) that I am subject to backup withholding as a result of a failure to report all interest or dividends, or (c) the IRS has notified me that I am no longer subject to backup withholding; and
- I am a U.S. citizen or other U.S. person (defined below); and
- The FATCA code(s) entered on this form (if any) indicating that I am exempt from FATCA reporting is correct.

Certification instructions. You must cross out item 2 above if you have been notified by the IRS that you are currently subject to backup withholding because you have failed to report all interest and dividends on your tax return. For real estate transactions, item 2 does not apply. For mortgage interest paid, acquisition or abandonment of secured property, cancellation of debt, contributions to an individual retirement arrangement (IRA), and generally, payments other than interest and dividends, you are not required to sign the certification, but you must provide your correct TIN. See the instructions for Part II, later.

Sign Here	Signature of U.S. person ▶ Wallace C. Drennan	Date ▶ 5/1/18
-----------	--	----------------------

General Instructions

Section references are to the Internal Revenue Code unless otherwise noted.

Future developments. For the latest information about developments related to Form W-9 and its instructions, such as legislation enacted after they were published, go to www.irs.gov/FormW9.

Purpose of Form

An individual or entity (Form W-9 requester) who is required to file an information return with the IRS must obtain your correct taxpayer identification number (TIN) which may be your social security number (SSN), individual taxpayer identification number (ITIN), adoption taxpayer identification number (ATIN), or employer identification number (EIN), to report on an information return the amount paid to you, or other amount reportable on an information return. Examples of information returns include, but are not limited to, the following.

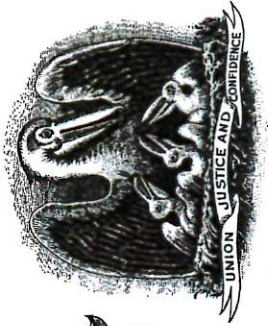
- Form 1099-INT (interest earned or paid)

- Form 1099-DIV (dividends, including those from stocks or mutual funds)
- Form 1099-MISC (various types of income, prizes, awards, or gross proceeds)
- Form 1099-B (stock or mutual fund sales and certain other transactions by brokers)
- Form 1099-S (proceeds from real estate transactions)
- Form 1099-K (merchant card and third party network transactions)
- Form 1098 (home mortgage interest), 1098-E (student loan interest), 1098-T (tuition)
- Form 1099-C (canceled debt)
- Form 1099-A (acquisition or abandonment of secured property)

Use Form W-9 only if you are a U.S. person (including a resident alien), to provide your correct TIN.

If you do not return Form W-9 to the requester with a TIN, you might be subject to backup withholding. See *What is backup withholding*, later.

State of Louisiana



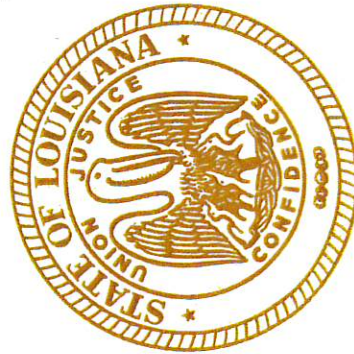
State Licensing Board for Contractors

This is to Certify that:

WALLACE C. DRENNAN INC.
Mr. Wallace C. Drennan III
P. O. Box 15438
New Orleans, LA 70175

is duly licensed and entitled to practice the following classifications:

BUILDING CONSTRUCTION; ELECTRICAL WORK (RESTRICTED); HEAVY CONSTRUCTION; HIGHWAY,
STREET AND BRIDGE CONSTRUCTION; MECHANICAL WORK (RESTRICTED); MUNICIPAL AND PUBLIC
WORKS CONSTRUCTION



Expiration Date: March 28, 2021

License No: 1033

Witness our hand and seal of the Board dated,
Baton Rouge, LA 29th day of March 2018

Will B. MacP Director

Lee Mallett Chairman

Andy Drennan Treasurer

This License Is Not Transferrable



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000125075 IMPROVEMENTS TO DAVID DRIVE AND YORK STREET
SEWER LIFT STATION D6-9**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com

18-Mar-2019 10:20:07 AM

A handwritten signature in blue ink, appearing to be 'JH' or similar, written in a cursive style.

Improvements to David & York Sewer Lift Station D6-9
BID PROPOSAL NO. 50-00125075
ADDENDUM NO. 1
DATE: 3/18/19
PAGE 1 of 75

**CONTRACT DOCUMENTS, SPECIFICATIONS
AND
CONTRACT DRAWINGS
FOR**

Improvements to David & York sewer lift station D6-9

**JEFFERSON PARISH DEPARTMENT OF SEWERAGE
SEWER CAPITAL IMPROVEMENT PROGRAM PROJECT NO. D55101
BID PROPOSAL NO. 50-00125075**

ADDENDUM NO. 1

DATE ISSUED: March 18, 2019

BID DATE: March 26, 2019 at 2:00 PM

**BID LOCATION: Jefferson Parish Purchasing Paul D. Connick, Sr.,
Emergency Operations & Communications Center, 910
3rd Street, Gretna, LA 70053**

This addendum shall be part of the Contract Documents as provided in the Instructions to Bidders.

The following items are issued to add to, modify, and clarify the Contract Documents. These items shall have full force and effect as the Contract Documents, and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by inserting its number on the Bid Form of the Bid Documents. Failure to do so will subject the bidder to rejection.

This Addendum No. 1 consists of **75** pages including the drawing sheets and all attachments.

ADDENDUM ITEMS:

1) Plan Sheet 09 and 10:

- Changed Pipe configuration between the two (2) 12" gate valves and the new E.P.O. Manhole
- Eliminated (2) 8"x90° Elbow and 8"x8"x12" TEE
- Added 8"x45° Elbow, 12"x8" Reducer, and 12"x8" WYE,

2) Specifications: LOUISIANA UNIFORM PUBLIC WORK BID FORM

A new Louisiana Uniform Public Work Bid Form is enclosed with this Addendum No. 1. Failure to use this form and acknowledge Addenda #1 in space provided will be grounds for bid rejection.

- Changed Item 011 Quantity from 4300 Pound to 2840 Pounds.
- Change Item 036 by-pass diversion pumping: changed unit of measure from weeks to Lump Sum and quantity from 3 to 1
- Add Item 044: Cost to contractor to list Jefferson parish as an additional insured on contractor's general liability insurance per Lump Sum
- Add Item 045: Cost to contractor to list Jefferson parish as an additional insured on contractor's automotive insurance per Lump Sum
- Add Item 046: Cost to contractor to list Jefferson parish as named insured on builder's risk insurance policy per Lump Sum
- Add Item 047: Cost of contractor's owners protection liability insurance policy per Lump Sum

3) Table of Contents:

- Special Provisions pages increased from 19 pages to 20 pages.
- Technical Specification Section 01025 pages increased from 2 pages to 3 pages.
- Delete Section 01650: Owner Supplied Equipment.

4) Special Provisions:

- Change Special Provision SP-04 prevailing wages from "The payment of Prevailing Wage Rates is not a requirement of this project" to "This Project shall be subject to Davis Bacon Wage Decision rates."
- Added Special Provision SP.55 FORCE MAIN SHUTDOWNS: Any FM shutdown requested shall only take place on Tuesday, Wednesday or Thursday from 8:00 PM until 5:30 AM the following day, and FM shutdown approval is subject to weather. If rain is forecast during the shutdown period it shall be cancelled at no expense to the Owner.
- Added Special Provision SP.56 TRAFFIC CLOSURE – DAVID DRIVE: Closure of one southbound lane adjacent to the project on weekends shall be allowed. Closure shall be allowed from 6:00 AM Saturday until 6:00 AM Monday. The closure shall be for Contractor convenience and at no expense to the Owner. The closure is fully subject to the conditions in Section 1570 and the Jefferson Parish Engineering Department.

5) Davis Bacon Wage Decision:

- Replace section LA180007 02/09/2018 LA7 with LA190005 01/04/2019 LA5

6) Specifications: Technical Specifications:

- Revised Section 01025: Measurement and Payment (3 Pages)
- Delete Section 01650: Owner Supplied Equipment
- Revised Section 11312: Non clog, Submersible wastewater pumps (9 Pages)
- Revised Section 16500: Pump control panel (Pumps 10 HP or greater) (18 Pages)

- 7) Pelican Pointe Car Wash ingress and egress and York Street access from David Drive shall be clean at the direction of the Engineer, but not less than daily at no direct pay. Refer to Technical Specification Section 01560.

LIST OF ATTACHMENTS

- Attachment 1 - LOUISIANA UNIFORM PUBLIC WORK BID FORM (5 Pages)
- Attachment 2 - TABLE OF CONTENTS (6 Pages)

Improvements to David & York Sewer Lift Station D6-9

BID PROPOSAL NO. 50-00125075

ADDENDUM NO. 1

DATE: 3/15/19

PAGE 4 of 75

- Attachment 3 - Davis Bacon Wage Decision (6 Pages)
- Attachment 4 – Special Provisions (19 pages)
- Attachment 5 – Section 01025 (3 pages)
- Attachment 6 - Technical Specifications Section 11312: NON CLOG, SUBMERSIBLE WASTEWATER PUMPS (9 Pages)
- Attachment 7 - Technical Specifications Section 16500: PUMP CONTROL PANEL (Pumps 10 HP or greater) (18 Pages)
- Attachment 8 – Plan Sheet 09
- Attachment 9 – Plan Sheet 10
- Attachment 10 – Pre-Bid Meeting Sign-In Sheet

END OF ADDENDUM NO. 1

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(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: APTIM, Inc. and dated: August 2018.
(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:

_____ N/A _____ Dollars (\$ _____ N/A _____)

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

_____ N/A _____ Dollars (\$ _____ N/A _____)

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

_____ N/A _____ Dollars (\$ _____ N/A _____)

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 RS 38:2218.A is attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(Owner to provide name of project and other identifying information)

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:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# MOBILIZATION AND DEMOBILIZATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
001	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CONSTRUCTION LAYOUT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
002	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# GENERAL EXCAVATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
003	145	CUBIC YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# REMOVAL OF STRUCTURES AND OBSTRUCTIONS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
004	1	LUMP SUM	\$20,000.00	\$20,000.00

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# REMOVAL OF 8" DIAMETER SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
005	40	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 4" DIAMETER PVC FOR ODOR CONTROL UNIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
006	7	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8" DIAMETER PVC C-905 SFM EXTENSION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
007	46	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8" DIAMETER DUCTILE IRON SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
008	38	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 12" DIAMETER PVC C-905 SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
009	541	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 18" DIAMETER PVC C-905 GRAVITY SEWER LINE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
010	150	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# DUCTILE IRON SFM FITTINGS & APPURTENANCES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
011	2840	POUNDS		

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.

Bid Proposal No. 50-00125075

PBF-2

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Addendum #1

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ NEMA PREMIUM EFFICIENCY PUMP			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
012	2	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ VARIABLE FREQUENCY DRIVES (VFD'S)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
013	2	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ CONTROL PANEL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
014	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ ELECTRICAL PANELS & WIRING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
015	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ PLUG, FILL & ABANDON EXISTING 8" SFM LINE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
016	187	LINEAR FOOT		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 8' DIAMETER FIBERGLASS WET WELL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
017	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 8' DIAMETER FIBERGLASS VALVE PIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
018	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ CLASS A REINFORCED CONCRETE – TOP SLAB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
019	17	CUBIC YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ CLASS A REINFORCED CONCRETE – WET WELL & VALVE PIT BOTTOM SLABS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
020	18	CUBIC YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ CLASS B TIMBER PILE (8" DIA. TIP, 12" DIA. BUTT)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
021	885	LINEAR FOOT		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ MISCELLANEOUS ELECTRICAL WORK & LABOR			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
022	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 48" DIAMETER SEWER MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
023	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ EMERGENCY PUMP OUT (DUCTILE IRON) & FIBERGLASS MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
024	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ CONVERT EXISTING WET WELL TO MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
025	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ TIE-IN TO EXISTING 14" SFM			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
026	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ OLD LIFT STATION DEMOLITION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
027	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ ODOR CONTROL UNIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
028	1	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ LANDSCAPING SOD (MATCH EXISTING GRASS TYPE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
029	350	SQUARE YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ PRE & POST SEWER SYSTEM VIDEO			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
030	205	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 4" TEMPORARY ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
031	100	SQUARE YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 7" THICK PORTLAND CONCRETE CEMENT DRIVE PAVEMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
032	83	SQUARE YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ BARRIER CONCRETE CURB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
033	80	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 6" THICK BASE COURSE FOR ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
034	100	SQUARE YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ BEDDING MATERIAL (#57 STONE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
035	50	CUBIC YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ BY-PASS DIVERSION PUMPING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
036	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ TEMPORARY RETAINING STRUCTURE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
037	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ TRAFFIC CONTROL (INCLUDE TEMPORARY SIGNS AND BARRICADES)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
038	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ REMOVE & REINSTALL PELICAN CAR WASH SIGNAGE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
039	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EXPLORATORY EXCAVATION AND VERIFICATION OF EXISTING UTILITIES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
040	5	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EMBANKMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
041	28	CUBIC YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 6" THICK CONCRETE SIDEWALK (SLAB)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
042	5	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ENTERGY FEE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
043	1	LUMP SUM	\$30,000.00	\$30,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S GENERAL LIABILITY INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
044	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S AUTOMOTIVE INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
045	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS NAMED INSURED ON BUILDER'S RISK INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
046	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# COST OF CONTRACTOR'S OWNERS PROTECTION LIABILITY INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
047	1	LUMP SUM		

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.

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General Decision Number: LA190005 01/04/2019 LA5

Superseded General Decision Number: LA20180007

State: Louisiana

Construction Type: Heavy

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

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

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/04/2019

CARP0729-001 07/01/2016

	Rates	Fringes
MILLWRIGHT.....	\$ 31.15	10.10

CARP1846-006 07/01/2017		

	Rates	Fringes
CARPENTER		
(formbuilding/formsetting and		
	DBW-1	

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Addendum #1

Piledrivers).....\$ 25.06 9.10

* ELEC0130-005 12/03/2018

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

	Rates	Fringes
ELECTRICIAN (including low voltage wiring).....	\$ 30.93	11.78

ELEC1077-002 10/29/2018

ST. TAMMANY PARISH

	Rates	Fringes
ELECTRICIAN (including low voltage wiring).....	\$ 24.53	3%+8.93

ENG10406-018 07/01/2009

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

PLAS0567-003 07/01/2014

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

	Rates	Fringes
Cement Mason/Concrete Finisher...	\$ 21.43	6.19

PLAS0812-003 06/01/2004

ST. JAMES PARISH

	Rates	Fringes
Cement Mason/Concrete Finisher...	\$ 21.85	0.00

PLUM0060-002 12/03/2018

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

	Rates	Fringes
Plumbers (excluding pipe laying).....	\$ 29.40	12.39

PLUM0198-005 01/01/2016

ST. JAMES PARISH (Northwestern Portion)

	Rates	Fringes
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PLUMBER (excluding pipe laying).....	\$ 29.38	11.40
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SULA2004-007 05/13/2004

	Rates	Fringes
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CARPENTER (all other work).....	\$ 13.75	2.60
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Laborers:

Common/Landscape.....	\$ 9.88	0.00
Fence.....	\$ 11.24	0.00
Flagger.....	\$ 8.58	0.00
Mason Tender.....	\$ 7.25	0.00
Pipelayer.....	\$ 9.84	0.00

PIPEFITTER (excluding pipelaying).....	\$ 17.52	4.51
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Power equipment operators:

Backhoe/Excavator.....	\$ 14.42	0.00
Crane.....	\$ 16.34	3.30
Dragline.....	\$ 16.50	0.00
Front End Loader.....	\$ 13.89	0.00
Oiler.....	\$ 10.03	0.00

Truck drivers:

Dump.....	\$ 11.01	0.00
Pickup.....	\$ 12.25	0.00

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

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

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Addendum #1

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

Union Rate Identifiers

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

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

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

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

Union Average Rate Identifiers

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

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

WAGE DETERMINATION APPEALS PROCESS

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

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

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

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

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

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

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

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

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

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

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Addendum #1

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

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END OF GENERAL DECISION

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SPECIAL PROVISIONS

SP-1

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Addendum #1

Rev 8-13-18

SPECIAL PROVISIONS

SP.01 STANDARD SPECIFICATIONS

All work performed under this Contract shall conform with the Louisiana Standard Specifications for Roads and Bridges, 2016 Edition, and latest revisions, except as modified in the Technical Specifications and the JEFFERSON PARISH GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND AGREEMENT FOR BELOW GROUND PROJECTS OR ABOVE GROUND PUBLIC WORKS PROJECTS AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE.

SP.02 INSURANCE AND BOND CONDITIONS

All insurance requirements shall be as per the requirements of Jefferson Parish General Conditions of Part II, Article 5 (Bonds and Insurance).

SP.03 LABOR PREFERENCE

To the extent that qualified mechanics and laborers are available, employment preference shall be given bona fide residents of Jefferson Parish.

SP.04 PREVAILING WAGES

This Project wages shall be subject to Davis Bacon Act.

SP.05 PRE-BID CONFERENCE

A pre-bid conference shall take place on the date, time and location specified on the Advertisement (ADV-1). The conference shall be led by Engineer and interested Contractors and Subcontractors are requested to attend. A site visit shall be offered at the conclusion of the conference. The conference is not mandatory.

SP.06 PRE-CONSTRUCTION CONFERENCE

Prior to the start of construction, the Engineer shall schedule a preconstruction conference. The Contractor shall be represented at the conference by his Project Manager, Project Superintendent, and any other concerned personnel. Representatives from appropriate Departments of Jefferson Parish will be invited as well as representatives from the assigned testing laboratory and private utility companies, when necessary.

SP.07 WORK SCHEDULING AND PROGRESS CHARTS

The contractor shall, within ten (10) days after receipt of Work Order, prepare and submit to the Engineer for approval, a practical schedule showing the order in which the

contractor proposes to carry on the work, the dates on which he will start, the phases of the work, and the contemplated dates for completion of the same. The schedule shall be in the form of a progress chart of suitable scale to indicate appropriately the percentage of work schedule for completion at any time.

SP.08 TESTING LABORATORY

(A) Should the Owner so decide, an independent testing laboratory shall be employed and paid by the Owner for the purpose of conducting test of materials.

(B) The selection of the testing laboratory by the Owner shall be understood as in no way relieving the Contractor of his responsibility for requirements of the Contract. Excluding written protest by the Contractor in advance of processing or use of materials, services of the testing laboratory shall be understood as constituting full acceptance and approval of the Contractor.

(C) The Contractor shall cooperate with and make available to the testing laboratory such facilities and material samples as may be necessary for the performance of testing services. (No Direct Pay)

SP.09 COMMUNICATIONS

All notices, demands, request, instructions, approval, proposals, and claims must be in writing.

Any notice to or demand upon the Contractor shall be sufficiently given if delivered at the office of the Contractor stated on the Signature page of the agreement (or at such other office as the Contractor may from time to time designate in writing to the Owner) or if deposited in the United States mail in a sealed, postage-prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.

All papers required to be delivered to the Owner shall, unless otherwise specified in writing to the Contractor, be delivered to Jefferson Parish, Department of Engineering, 1221 Elmwood Park Boulevard, Suite 802, Jefferson, Louisiana, 70123, and any notice to or demand upon the Owner shall be sufficiently given if so delivered, or if deposited in the United States mail in a sealed, postage-prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission to said Parish at such address, or to such other address as the Owner may subsequently specify in writing to the contractor for such purpose.

Any such notice shall be deemed to have been given as of the time of actual delivery or (in case of mailing when the same should have been received in due course of post; or in the case of telegrams, at the time of actual receipt, as the case may be).

The Engineer shall be copied on all correspondence.

SP.10 EQUAL OR APPROVED EQUAL (Excluding Sections 11312 and 16500)

Where any item, or material is specified by proprietary name, the trade name, and/or name of manufacturer, with or without the addition of such expression as "or equal" or "or approved equal" it is to be understood that the item or material named or the equal thereof is intended, subject to the approval of the Engineer as to the quality thereof, and it is distinctly understood that:

1. The Engineer is to use his own judgment in determining, from time to time, whether or not any item or material proposed to be submitted is the equal of any item or material so specified, and
2. The decision of the Engineer and Owner's concurrence on all such questions of equality shall be final.

If, subsequent to award of the Contract, it becomes necessary or desirable because of the inability of the Contractor to obtain promptly any items of material as specified, or the equal thereof, the Engineer, at his discretion and with the Owner's approval, may authorize use of substitute items or materials of the same, greater, or less cost than those specified.

In such cases as described above, the Contractor shall submit, in writing, his request for permission to make a substitution and shall furnish full information as to costs of the item or material specified and the item or material to be substituted therefore. Such information shall be in such form and detail as to permit the Engineer to check, to his satisfaction, the cost involved. Upon approval of the substitution, when the cost thereof is greater or less, the Engineer will authorize, in writing, the proper credits to be allowed the Owner or the proper additional payments to be made to the Contractor, representing the difference between the net cost to the Contractor of the substitute item or material and the price at which the lowest-priced item or material specified could be obtained.

SP.11 WORKING HOURS

No work shall be done between 6:00 p.m. and 7:00 a.m., nor on Saturdays, Sundays, or legal holidays without permission of Owner. However, emergency work may be done without prior permission. Normal work day - Monday through Friday, eight (8) work hours, or with prior permission from the Owner, four (4) ten hour work days per week. See Part II, Article 6 of the Jefferson Parish General Specifications (Contractor's Responsibilities) for additional requirements. Under no circumstances will work be allowed to commence prior to 7:00 A.M., unless approved by the Owner in writing prior to commencement of work. In the event that an interruption in power is necessary, the

contractor shall supply due notice and make preparations for such power interruption to take place between the hours of 10 pm and 5 am.

SP.12 CONSTRUCTION NOISE

The Contractor shall maintain and operate equipment in such manner as to minimize noise generation to the extent practicable. All engines used on the project shall be equipped with properly functioning mufflers.

SP.13 ALIGNMENT, BENCH MARKS, AND CONSTRUCTION LAYOUT

The Contractor will be responsible for establishing all lines and grades and staking out all work on this project. The Engineer will furnish baseline reference points and benchmarks for use by the Contractor to establish horizontal and vertical controls.

The Contractor shall employ sufficient qualified engineering personnel experienced in layout and construction of highways and bridges to correctly establish and keep complete and comprehensive notebook records of all lines and grades necessary from initial layout to final acceptance. The Contractor will be liable for the accuracy of the initial layout and all subsequent alignment and elevations and shall, at his own expense, rebuild, repair or make good any portion of the work found to be incorrectly positioned either horizontally or vertically at any time before final acceptance. The Contractor shall notify the Engineer immediately of any apparent error in the plans.

The Contractor shall number notebooks for complete and comprehensive recording of all lines and grades. These notebooks shall be provided to the Engineer and shall be properly indexed and cross-referenced by the Contractor for as-built data. The Contractor will be responsible for providing a marked-up set of prints showing as-built conditions.

The Engineer may, at his option, make either spot or complete checks of all construction alignment and grades to determine the correctness of the Contractor's work. However, these checks by the Engineer will not relieve the Contractor of his responsibility for constructing the work in the positions and to the elevations shown on the plans or approved revisions thereto. All measurements for determination of pay quantities will be plan dimension unless amended by field instruction.

SP.14 JOB SITE SAFETY

In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions on the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of the Project Engineer to observe the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

SP.15 CLEANING UP

The Contractor **shall at all times** keep all roadways being used by him or his sub-contractors free from accumulation of waste materials and other debris caused by his construction operation. There will be no direct payment for this operation.

SP.16 UNDERGROUND AND OVERHEAD UTILITIES

Locations of existing underground and overhead utilities shown on plans are approximate. Prior to any type of excavation, Contractor shall contact all utility companies (private and public) for the purpose of establishing exact location of utilities in the field. Contractor shall perform any necessary exploratory work ahead of the construction operation as directed by the project engineer for public utilities. This exploratory work is for the purpose of establishing exact location of underground utilities and determining whether a conflict will exist with the proposed work. FOR THIS PROJECT, PRIOR TO THE CONSTRUCTION, CONTRACTOR **MUST** CONTACT MR. DAVID STOUT (736-6536), OF TRAFFIC ENGINEERING, TO LOCATE ALL EXISTING UNDERGROUND TRAFFIC INFRASTRUCTURES.

The Contractor's attention is called to the presence of overhead and underground power lines, underground gas, and communication lines throughout the project. The Contractor is solely responsible for project safety and coordinating his operations with all utility companies.

SP.17 COOPERATION BETWEEN CONTRACTORS

The Contractor shall be cognizant of the fact that other utility related work may be under construction at the same time that this Contract is active. There shall be complete cooperation with any other contractor in the area, and any unavoidable conflicts shall be immediately brought to the Engineer's attention.

SP.18 MEASUREMENT AND PAYMENT

Measurement and payment shall be as specified on plans and specifications. No direct payment will be made for any item of work normally required for the type of construction involved that is not a pay item on the Proposal Form. All measurements for payment shall be made by the Project Engineer, or his authorized representative.

SP. 19 CORRECTIONS AFTER FINAL PAYMENT

Neither the final payment nor any provision in the Contract Documents shall relieve the Contractor of the responsibility for negligence or faulty materials, equipment, or workmanship, and upon written notice he shall remove any defects due thereto and pay for any damage due to other work resulting therefrom which shall appear within one year

after date of completion and acceptance. See Part II, Article 13.07 of General Conditions of Jefferson Parish.

SP.20 EXTENSION OF TIME

Apart from extensions of time for unavoidable delays; no payment or allowance of any kind shall be made to the contractor as compensation for damages because of hindrance or delay for any cause (utility relocations/adjustments by others, traffic related matters, etc.) in the progress of work, whether such delay be unavoidable or avoidable.

SP.21 INSURER'S CLAIMS PROCEDURES

Amend 5.04D of the JEFFERSON PARISH GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND AGREEMENT FOR BELOW GROUND PROJECTS OR ABOVE GROUND PUBLIC WORKS PROJECTS AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE by adding the following new subparagraph after paragraph D.5.

The insurers shall respond to all loss notices received from the Contractor or directly within 48 hours of receipt; shall use their best efforts to make a final adjustment of the loss notices within 90 days of receipt; and shall process such loss notices promptly and expeditiously.

SP.22 THIRD PARTY TORT CLAIMS PROCEDURES

- A. With respect to any third party claims or complaints for personal injury or movable or immovable property damage (a "Claim") from residents or land owners adjacent to or in the vicinity of the Project (the "Resident"), the Contractor shall use its best efforts to settle the Claim and shall consult and negotiate with the other party in good faith and attempt to reach a just and equitable resolution satisfactory to both parties, recognizing their mutual interests. Contractor shall designate and maintain on site at all times a responsible employee, such as the job superintendent, who shall be responsible for taking and documenting any Claim.
- B. Any Claim shall be taken down in writing, either simultaneously with the report or immediately thereafter. The report of a Claim (a "loss notice") shall be submitted within one working day after the Claim is made to the Contractor and to the Contractor's insurance company or risk management office (collectively referred to as the "Adjuster") for prompt handling. A copy of each loss notice shall also be submitted simultaneously to the Parish, Director of Engineering-Public Works.
- C. Contractor shall confirm with its Adjuster that the person who has made a Claim was contacted by the Adjuster within 48 hours of receipt of the loss notice.

- D. Contractor shall make every effort to expedite the resolution of a Claim consistent with the requirements to investigate and document the alleged damages including, if necessary, the utilization of experts in a timely manner. The Contractor shall supervise the handling of all Claims and loss notices by its Adjuster and use its best efforts to ensure that all Claims are resolved within ninety days by definitive action such as an acceptance, denial, or offer of adjustment.
- E. Contractor shall ensure that the Parish, Director of Engineering-Public Works, receives a copy of any action by Adjuster on a Claim or in response to a loss notice at the same time such action is tendered to the claimant.
- F. In the event the Adjuster is unable to take action on a Claim within ninety days of the receipt of same by the Contractor, the Contractor shall provide the Parish with a written report of the status of such Claim and the reason(s) why a resolution has been delayed. Contractor shall provide to the Parish, Director of Engineering-Public Works, on a monthly basis a written update of the status of all Claims reported pursuant to this paragraph.
- G. For any Claims not resolved amicably, the procedures of SP.24 shall apply.

SP.23 MEDIATION

- A. If the Contractor and the Resident are unable to resolve a Claim within 90 days of receipt of the Claim by the Contractor, the Contractor shall use its best efforts to encourage and convince the Resident to agree to try in good faith to resolve the Claim by mediation before resorting to litigation or some other dispute resolution procedure. If the Claim is submitted to mediation, the Contractor shall participate in such mediation in good faith in a genuine effort to resolve the Claim without litigation.
- B. The costs of mediation, not including the Resident's legal fees, shall be for the account of the Contractor but nothing herein shall prevent the Contractor from agreeing to pay all or a part of the Resident's legal fees if necessary or appropriate to reach a resolution of the Claim.
- C. Contractor agrees to make every effort on its part to bring a claim to mediation within (60) days after the Resident rejects the adjuster's offer.

SP.24 INCLEMENT WEATHER DAYS

As specified elsewhere in these Special Provisions, a set number of inclement weather days have been specified for this Contract. If the number of actual inclement weather days, as defined in this Special Provision, exceeds the number of inclement weather days specified elsewhere in these Special Provisions, CONTRACTOR may make a claim for time equal to the number of inclement weather days in excess of the number specified.

For this Contract, an Inclement Weather Day shall be defined as any day on which construction operations were unable to proceed for at least five (5) continuous hours of the day or 65% of the regular working hours, whichever is greater. Should CONTRACTOR prepare to begin work on any given day in which inclement weather, or the conditions resulting from inclement weather, prevent work from beginning at the usual starting time, and the crew is dismissed as a result thereof, the day will be declared an Inclement Weather Day, whether or not conditions change during the day, resulting in the rest of the day becoming suitable for work.

SP.25 ACCESS TO DRIVEWAYS

During the construction of the project, the Contractor shall provide temporary access to commercial and residential driveways.

SP.26 CONSTRUCTION IN VICINITY OF EXISTING STRUCTURES, ROADWAYS, SIDEWALKS/DRIVEWAYS, LANDSCAPING, ETC...

The Contractor shall be fully responsible for maintaining the integrity of all existing structures (fences, poles, etc...), roadways, sidewalks/driveways, landscaping, etc... within the project limits, throughout the duration of the project. Any damage to these structures/facilities resulting from the Contractor's operation shall be repaired or replaced at Contractor's expense. All repairs and replacements shall be made to the satisfaction of the Engineer and Owner. There shall be "No Direct Pay" for any work or materials required to maintain the integrity of these structures/facilities.

SP.27 DRAINAGE

Contractor shall not impede existing or new drainage during rainstorms or when a storm is imminent.

SP.28 DISPOSAL OF CONCRETE, ASPHALT AND UNCLASSIFIED EXCAVATION

All concrete and asphalt pavements, walks and curbs removed from the project, as well as all unclassified excavation not otherwise used in the project, shall become the property of the Contractor, and shall be disposed of at no cost to the owner. Written permission of the property owner on whose property the material is placed shall be required. Copies of the written agreement with the property owners shall be provided to the Engineer prior to commencement of disposal.

SP.29 UTILITY DISRUPTION

If the Contractor or any of his sub-contractors plan to disrupt utility service (i.e. sewer, water, electricity, gas, telephone, etc.), to perform any portion of his work, the Contractor shall adhere to the following requirements:

- a) All businesses and residences affected by the disruption of the utility must be given written notice a minimum of forty-eight (48) hours in advance. In addition, the Contractor shall make no less than three (3) attempts to personally contact an individual at each affected business or residence. The first attempt may be while delivering the written notification, and the last attempt should be the evening prior to the disruption. The notice of disruption shall also be sent to the District Councilman, Mark Drewes (Jefferson Parish Department of Engineering).
- b) The Contractor shall not disconnect the utility until after 8:00 a.m. on the morning that the work is to be performed.
- c) The Contractor shall contact each business to determine if special arrangements (such as temporary water supply, port-o-lets, etc.) are necessary during the period of the utility disruption. The Contractor shall not disrupt service until all special arrangements are in place or the Contractor has received approval by the Parish to proceed.
- d) All service must be restored at the end of each day, unless previously approved by the Parish.
- e) There shall be "No Director Payment" for any necessary work or materials needed to perform these requirements.

SP.30 EXISTING POWER POLES

Where excavation is required adjacent to existing power poles or other structures, the Contractor has the responsibility to maintain the integrity of the structure by bracing or other means subject to the approval of the project Engineer and the utility owner (no direct payment).

SP.31 ENTERGY TRANSMISSION AND DISTRIBUTION LINES

While constructing the project, the Contractor will be working near ENTERGY overhead power lines. Prior to beginning construction, the Contractor shall contact Mr. Glen Scorsone, Entergy Louisiana, Distribution Engineering, P.O. Box 61000 L-JEF-367, New Orleans, Louisiana 70161-1000, Ph. (504) 840-2513 to coordinate all construction with ENTERGY, complete the necessary safety precautions, construct the work in accordance with OSHA, NEC and ENTERGY requirements, and ensure the safety of the site.

The Contractor shall maintain a safe distance from all energized power lines in accordance with OSHA, ENTERGY, and NEC requirements. Contractor shall be responsible for determining the maximum height and reach attainable by any part of any piece of equipment, and after coordinating with ENTERGY to determine the height and location of the power line, shall determine the safe clearance which will not be violated. If the safe clearance will be violated, prior to beginning any operations in the area, the Contractor shall coordinate with ENTERGY to de-energize the line. If the line is to be

de-energized, but is to remain in place, rather than being removed, the Contractor shall establish a coordination procedure with ENTERGY to ensure that the Contractor shall have sufficient notice to allow removal of all equipment which may violate the safe clearance from the area prior to the line being re-energized. These procedures shall also apply to any buried power line.

Contractor's full compliance with all procedures and requirements for the overhead and underground power lines noted in this special provision shall be maintained at all times.

SP.32 PRIVATE UTILITY RELOCATION

Private utilities located on public right-of-way which are required to be relocated or de-energized at the job site or removed entirely from the job site to accommodate the project will be done so at no cost to the Contractor. Any such relocation/removal has to be necessary for the construction of the project and as described in the plans or specifications. If during construction the Contractor determines that additional relocations/removals are necessary to perform the work, then the approval of the engineers and the owner will be required. If the engineers and the owner agree with the additional relocations/removals, then it will also be accomplished at no expense to the contractor.

SP.33 ENTERGY RELOCATION FEE REIMBURSEMENT

Reimbursement for approved Entergy equipment, poles and transmission line relocations shall be reimbursed to the Contractor based on actual amount of invoices by Entergy, with no mark-up, coordination or other cost added. The total dollar amounts of these items will be applied to the pay item shown on the bid form for this work.

SP.34 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Payment for removal of unforeseen items that require removal or relocation shall be made on an individual negotiated price per occurrence prior to the work being done, approved by the Jefferson Parish Department of Sewer and Jefferson Parish Department of Capital Projects. The total dollar amounts of these items will be applied to the pay item shown on the bid form for this work.

SP.35 PILE DRIVING

The Contractor is cautioned that vibrations resulting from any pile driving operation can cause structural damage to adjacent houses and other structures. He is advised to take every precaution to monitor these vibrations and to assure that they remain within safe limits, in accordance with the requirements of the U.S. Bureau of Mines, 1980.

SP.36 PARTIAL USE OF SITE IMPROVEMENTS

The Owner, at his discretion, may give notice to the Contractor that certain sections of the improvements which have been completed, inspected, and can be accepted as complying with the Technical Specifications will be placed in use, provided that the following conditions are met:

1. In the Owner's opinion, each section is reasonably safe, fit and convenient for use provided.
2. The use of such sections of the improvements shall in no way impede the completion of the remainder of the work by the Contractor.
3. The Contractor shall not be responsible for any damages or maintenance costs due directly to the use of such sections.
4. The use of such shall in no way relieve the Contractor of his liability due to having used defective materials or to poor workmanship.
5. The period of guarantee stipulated in the General Specifications and Conditions hereof, shall not begin to run until the date of the final acceptance of all work which the Contractor is required to construct under this Contract.

SP.37 VIBRATIONS DUE TO CONSTRUCTION ACTIVITIES

The Owner will retain the services of an independent testing laboratory to perform vibration monitoring for the duration of the construction. Payment for these services will be the responsibility of the Owner.

The project engineer shall determine the need for vibration monitoring. The project engineer shall direct the number and placement of monitors to be used for each activity or condition. Monitoring equipment shall directly measure particle velocity (rate of ground movement) in three mutually perpendicular directions (longitudinal, transverse and vertical) and be capable of recording the vector sum of these three measurements to an accuracy of 0.01 in/sec. In addition, the monitoring equipment shall be capable of producing a continuous written record of all measurements taken. A daily report will be furnished to the Engineer including, at a minimum, a monitoring location plan, all recorded data and a narrative of construction activities which is referenced to the recorded data.

The Contractor shall report to the Engineer's field representative at least twenty-four (24) hours in advance of starting any new construction related activity (or if site conditions change) and request that proper vibration monitoring be provided for this activity and/or condition.

If at any time any monitor in any direction records a reading of 0.20 inches per second, the laboratory technician shall notify the Contractor and the Owner's field representative immediately. The Contractor shall record the activity and location causing the reading.

If at any time any monitor in any direction records a reading of 0.25 inches per second or greater, the laboratory technician shall notify the Contractor and the Owner's field representative immediately and the affecting construction activity shall be suspended. The Contractor shall propose to the Engineer corrective measures for the affecting construction activity to ensure that vibration-monitoring limits will not be exceeded. Upon approval by the Engineer, the modified construction activity may resume. Repair of any damage caused by the vibrations above safe limits as specified herein shall be the full responsibility of the Contractor.

SP.38 GRASS CUTTING

The Contractor shall cut grass areas in the public right-of-way within project limits as per directions from the Project Engineer throughout the life of the project. To further clarify this requirement the contractor is responsible for grass cutting within his immediate work zone. The contractor is not responsible for maintenance of grass in other locations within the project limits that fall outside of his immediate work zone. In other words, areas that either have been completed or areas in which the contractor has not begun work in he will not be required to cut the grass. There shall be "No Director Payment" for this work.

SP.39 COPIES OF DRAWINGS FURNISHED

Article 2.02 of the JEFFERSON PARISH GENERAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND AGREEMENT FOR BELOW GROUND PROJECTS OR ABOVE GROUND PUBLIC WORKS PROJECTS AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS DESIGNEE is amended as follows: "The Engineer will furnish to the Contractor free of charge, not to exceed six (6) copies of Engineering Drawings and Specifications". With this exception the paragraph shall remain unchanged.

SP.40 INSPECTION, SAFETY

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 he will not be responsible for Contractor's failure to perform the work in accordance with the Contract Documents. Engineer will not be responsible for the acts or omissions of Contractor, or any Subcontractors, or any of their agents or employees, or any other persons at the site or otherwise performing any of the work.

The Engineer, under this Contract, is performing services solely for the Owner, no benefit is conferred upon any other party and no claim against the Engineer shall accrue to any party other than the Owner as a result of the performance or nonperformance of engineering services; all parties to this Contract, including surety, agree that subrogation of the Owner's rights does not give any other party, including surety, a right to claim against the Engineer.

In accordance with generally accepted construction practices, the Contractor will be solely and completely responsible for conditions on the job site, including safety of all workmen and other persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of the Engineer (and all of his employees) is to observe the Contractor's construction performance in compliance with the design drawings and technical specifications and is not intended to include any review of the adequacy of the Contractor's safety measures on or off the construction site.

The duty of the Project Engineer to observe the Contractor's performance is not intended to include review of the adequacy of the Contractor's safety measures, in, on, or near the construction site.

SP.41 DAMAGED STRUCTURES AND ROADWAY

The Contractor shall at his own expense remove and replace any damaged structures and any damaged roadways located outside of the limits of construction caused by the performance of his construction work as directed by the Engineer and Owner.

SP.42 ELECTRICAL POWER AND WATER SUPPLY

The Contractor shall make arrangements for electric power and water supply for construction and testing purposes from the respective companies serving the area and shall pay all charges therefore, including installation, service and use charges.

SP.43 SHEETING BRACING AND FALSEWORK

Contractor shall furnish, install and remove any and all sheeting, bracing and false work necessary for construction of specified items of work included in this project.

This provision shall include but is not necessarily limited to any and all required trench and excavation sheeting, lateral support bracing, falsework, forms, and dewatering stops together with all labor, materials and equipment necessary to insure safety of workmen and satisfactory completion of each specified item of work.

SP.44 VIDEO AND PHOTOGRAPHS

As per Section 01380, the Contractor, prior to construction, shall have photographs and videos taken of the area of construction and of nearby structures in the adjacent neighborhood. The contractor shall ensure all pre-existing damage is clearly documented.

LOCAL NOTIFICATION OF CONSTRUCTION ACTIVITY

The contractor shall be required to notify all affected residents, businesses and occupied structures of the future construction project at least 14 days in advance of any construction activities. A sample door hanger is shown on page SP-16. The notification shall be in the form of a door hanger that will include the following information in the following order:

1. Start date of construction activities
2. Jefferson Parish Project Number
3. Contractor contact and phone number
4. Jefferson Parish SCIP contact and phone number.
 - a. The current Jefferson Parish SCIP contact is:
Timothy Smith
504-275-5730
5. The contractor shall place the door hangers on affected residents, businesses and occupied properties based upon the following minimal criteria:
 - a) All homes, businesses and occupied structures within a 1 block radius of major construction site or anticipated future road closure(s).
 - b) All homes, businesses and occupied structures within a two parcel radius of any anticipated minor construction activities or open excavations that last for more than 3 days.
 - c) All homes, businesses and occupied structures that are adjacent to a marshaling or stockpiling site.
 - d) All homes, businesses and occupied structures that will be subjected to heavy equipment traffic on a regular basis.
 - e) Any additional homes, businesses and occupied structures identified by the SCIP program manager.

The contractor contact must be available 24 hours per day and shall be courteous and professional at all times when interacting with citizens.



**Future
Construction
Notification**

**A sewer construction
project is to begin in
your area on:**
Date
 Please refer to project
 number: XXXX
 when calling if you have any
 questions or concerns:

Contact Name
Contracting Company
504-123-4567
 or
 Timothy Smith
 SCIP Project Manager
 504-275-5730

SP.46 CONTRACT TIME

All work shown on the Plans and in the Specifications shall be executed and functional in all details (Substantial Completion) within 240 consecutive calendar days from the date specified in the "Notice to Proceed" as the starting date for the Contract Time. The time allowed for completion of this project includes 21 days of inclement weather and any time required for final clean up of the project site. For this project, the set time for Final Acceptance is 30 consecutive calendar days after the job has been accepted by the Owner as Substantially Complete or 30 from the date specified in the "Notice to Proceed" as the starting date for the Contract Time, whichever occurs first.

SP.47 WORK STOPPAGE DUE TO PUBLICALLY DECLARED EMERGENCY

If there is an emergency declared by the Federal, State or Local government in Jefferson Parish or in any portion thereof, then all work on this project shall cease until such time as the contractor is instructed to resume work by Department Director (no one else) who has jurisdiction over the project.

If there is any type of work which must proceed to prevent harm to persons or property, or damage to the project itself; then contractor should immediately contact the Department Director for necessary instructions. If contractor is unable to contact the Department Director, contractor may perform the work necessary to prevent such harm in accordance with industry safety standards.

Contractor shall be entitled to an extension of time for the period of the stoppage, but shall not be entitled to any additional compensation by reason thereof.

SP.48 CONSOLIDATED APPROPRIATIONS ACT 2104 (AMERICAN IRON AND STEEL)
ALL LDEQ, DNR, EPA AND DHH PROJECTS

In accordance with Section 436 of the Consolidated Appropriations Act, 2014, the contractor agrees that all of the iron and steel goods used in the performance of the contract will be produced in the United States. Documentation of American Iron and Steel (AIS) compliance shall be included with the Contractor submittals. See x

SP.49 GOVERNING SPECIFICATIONS

The Governing Specifications are the Construction Specification Institute (CSI) 1995 Format sections 01000 thru section 16905. The Jefferson Parish Department of Engineering General Standard Notes included as Appendices A and B ("Green Sheets") are to be used as supplementary specifications only. The Green Sheets shall be used only for items not explicitly specified in the CSI sections.

SP.50 JEFFERSON PARISH RESOURCES COORDINATION

The Engineer and Jefferson Parish Sewer Capital (SCIP) shall coordinate all requests from the Contractor for use of Jefferson Parish facilities, materials or resources. The approval of all requests shall be solely at the discretion of the Department of Sewerage. Direct coordination with Jefferson Parish Personnel will only be allowed during emergency situations. Jefferson Parish shall not be held responsible for any additional cost or delays as a result of a request denial, approval, or a failure to coordinate a request through the Engineer and Jefferson Parish Sewer Capital (SCIP).

SP.51 PROJECT SIGNS

Project identification signs (maximum of two) will be furnished by the Jefferson Parish and shall be picked up, installed and maintained by the Contractor throughout the duration of the project construction. Wooden signs are approximately 4 ft. x 8 ft. Installation and maintenance of project identification signs shall be at no direct payment. Pick-up of signs will be at 2100 Dickory Street in Harahan, Louisiana (Jefferson Parish Traffic Engineering Division). The Contractor shall also be responsible for delivery of signs to the Traffic Engineering Division when the project is completed. Prior to installation, location of the signs shall be approved by the Jefferson Parish Traffic Engineering Division (504-736-6500).

SP.52 COOPERATION WITH UTILITIES

Subsection 105.06 of the 2016 Louisiana Standard Specifications for Roads and Bridges is amended to include the following:

Utility facilities will be removed, relocated, adjusted or abandoned in accordance with agreements between the Parish of Jefferson and utility owners listed below. Whenever practicable, utilities that are in conflict with the work shall be relocated prior to the Notice to Proceed date. In some cases, where noted in the plans and/or specifications, Contractor will be required to assist the utility by excavating the underground pipe or conduit. Starting dates for such work will be determined by the engineer and may be different for each utility. This work shall be coordinated with the Utility, and should be scheduled to be completed within the Assembly Period whenever possible (see SP.64).

In some projects, utility relocation work may have to be performed concurrently with the contractor's work. The following estimated completion times for utility work is for information purposes only and will not relieve the contractor of any requirements of this subsection nor will it preclude the granting of contract time credits in accordance with the provisions of this subsection.

UTILITY OWNER	Estimated Calendar Days for Completion
Atmos Energy Louisiana	0
Entergy Corporation	0
AT&T – East Bank	0
Cox Communications, Louisiana, LLC	0
Gulf South Pipeline Company LP	0
Southern Light Fiber	0
Hunt Telecommunications	0

SP.53 EXPLORATORY EXCAVATION

The Technical Specification for Exploratory Excavation is supplemented as follows:

Utility excavations shall be performed prior to the start of work to allow ample time for the engineer to resolve conflicts. The location and final quantity of excavations will be determined in the field by the engineer. Utility excavations shall include the removal and disposal of existing material as indicated on the plans or as directed by the engineer. Coordinate excavation with utility companies and abide by their

procedures and requirements for exposing utilities. Excavate to expose the utility to determine type, size, location, and depth. Furnish the engineer with a detail of this information for all utilities exposed by the excavation. Inaccurate information provided to the engineer that causes delays or additional costs to the project shall be at the contractor's expense. The contractor shall be solely responsible for damages to existing facilities due to the exploratory excavation.

Contractor shall design and construct all temporary sheeting and bracing required to ensure stability of the excavation, and shall properly secure and mark the excavation site to maintain public safety at all times in accordance with the contract plans and specifications. The engineer shall be furnished with Contractor's installation plan for the temporary sheeting and bracing [with design assumptions and calculations] signed and sealed by a professional civil engineer licensed in Louisiana. If excavation is below the groundwater table, provide groundwater control to permit excavation so that there is no standing water and a dry working surface is provided to maintain stability of the excavation. Remove the temporary sheeting and bracing and backfill the excavation with granular material or other suitable backfill material as directed by the engineer. The excavation site shall be restored to its original conditions after completion of work. Compensation will be as provided under Exploratory Excavation.

SP.54 ASSEMBLY PERIOD

The entire contract shall be completed in all details and ready for final acceptance in accordance with SP.46 - Contract Time within the time specified.

Prior to assessment of contract time, the contractor will be allowed 30 calendar days from the date stipulated in the Notice to Proceed to commence with portions of the contract work, including but not limited to assembly periods, preparatory work for materials fabrications such as test piles, or other activities which hinder progress in the beginning stages of construction. Prior to issuance of the Contractor's Notice-to-Proceed, and upon written request from the contractor justifying the need for additional time, the Department of Engineering *may* consider extending the Assembly Period; however, the Assembly Period shall not be extended for more than 30 calendar days. If the contractor begins regular construction operations prior to expiration of the assembly period, the assessment of contract time will commence at the time construction operations are begun.

The contractor shall be responsible for maintenance of traffic from the beginning of the assembly period. During the assembly period, the contractor will be allowed to do patching and other maintenance work necessary to maintain the roadway with no time charges when approved by the engineer.

The contractor is directed to the special provisions and the plans for any restrictions that may affect work schedules.

SP.55 FORCE MAIN SHUTDOWNS

Any FM shutdown requested shall only take place on Tuesday, Wednesday or Thursday from 8:00 PM until 5:30 am the following day FM shutdowns are subject to weather; If rain is forecast during the shutdown period it shall be cancelled at no expense to the Owner.

SP.56 TRAFFIC CLOSURE – DAVID DRIVE

Closure of one southbound lane adjacent to the project on weekends shall be allowed. Closure shall be allowed from 6:00 am Saturday until 6:00 Monday. The closure shall be for Contractor convenience and at no expense to the Owner. The closure is fully subject to the conditions in Section 1570 and the Jefferson Parish Engineering Department.

SECTION 01025

MEASUREMENT AND PAYMENT

PART 1 GENERAL

- A. Refer to Proposal 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 GENERAL

The total Bid Price shall cover all work required by the Contract Documents. All costs in connection with the proper and successful completion of the work, including furnishing all materials, sheeting, bracing, bedding, backfill equipment, supplies, and appurtenances; providing all construction equipment, and tools; performing all necessary labor and supervision to fully complete the work, shall be included in the lump sum bid price.

4.02 MEASUREMENT AND PAYMENT

The lump sum bid price shall include all tools, equipment, supplies, and manufactured articles, and for all labors, operations, and incidentals appurtenant to complete the work as shown in the drawings and detailed in the contract documents. Prior to beginning construction, the Contractor shall provide a detailed itemized cost breakdown to be used for processing monthly payment applications.

4.03 REMOVAL OF EXISTING SEWERAGE LIFT STATION P-11-1

This item of work shall include all labor, material, and equipment required to remove all piping, pumps, and electrical equipment from the existing station, cut the existing structures off 3 feet below ground, backfill, compact the backfill, and return the surface area to the same condition as adjacent to this site.

Payment will be made on a lump sum bases

A. Item: Cost to contractor to list Jefferson Parish solely as an additional insured on Contractor's General Liability Insurance

1. Measurement of Cost to contractor to list Jefferson Parish solely as an additional insured on Contractor's General Liability Insurance shall be on a lump sum basis.
2. Payment shall cover the contractors direct cost to include Jefferson Parish solely as an additional insured on Contractor's General Liability Insurance. No mark up or profit shall be allowed.
3. Full payment shall be made on the first progress payment.

B. Item: Cost to contractor to list Jefferson Parish solely as Additional insured on Contractor's Automotive Insurance

1. Measurement of Cost to contractor to list Jefferson Parish solely as an additional insured on Contractor's Automotive Insurance shall be on a lump sum basis.
2. Payment shall cover the contractors direct cost to include Jefferson Parish solely as an additional insured on Contractor's Automotive Insurance. No mark up or profit shall be allowed.
3. Full payment shall be made on the first progress payment.

C. Item: Cost to contractor to list Jefferson Parish solely as Additional insured on Contractor's Builder's Risk Insurance

1. Measurement of Cost to contractor to list Jefferson Parish solely as an additional insured on Contractor's Builder's Risk Insurance shall be on a lump sum basis.
2. Payment shall cover the contractors direct cost to include Jefferson Parish solely as an additional insured on Contractor's Builder's Risk Insurance. No mark up or profit shall be allowed.
3. Full payment shall be made on the first progress payment.

D. Item: Cost to contractor to list Jefferson Parish solely as Additional insured on Contractor's Owners Protection Liability Insurance

1. Measurement of Cost to contractor to list Jefferson Parish solely as an additional insured on Contractor's Owners Protection Liability Insurance shall be on a lump sum basis.
2. Payment shall cover the contractors direct cost to include Jefferson Parish solely as an additional insured on Contractor's Owners Protection Liability Insurance. No mark up or profit shall be allowed.
3. Full payment shall be made on the first progress payment.

(End of Section)

Section 11312
NON CLOG, SUBMERSIBLE WASTEWATER PUMPS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. GENERAL – The products and services referenced herein pertain to pump stations which are three phase 230/460 VAC for the Jefferson Parish Department of Sewerage. The pumps and controls shall be provided by a single source supplier to insure complete responsibility for an integrated pumping and controls solution.
- B. The System Supplier shall furnish equipment for installation by the Contractor. This equipment shall consist of submersible solids-handling pumps with integral electric submersible motors, radially cooled by the surrounding media or by closed loop cooling system, base elbows, 316 stainless steel guide rails and brackets, and stainless steel lifting chain or cable meeting OSHA requirements.
- C. The Bidder shall be responsible for supplying the equipment specified herein to meet or exceed these specifications as obtained from the System Supplier for this project. The System Supplier shall be an Authorized Distributor of the proposed products and shall be capable of a form of direct responsive communication within a two (2) hours notification in regards to service requests and parts availability. The responsive System Supplier shall routinely stock complete pumps, controls and parts to repair those units in their own facility. All equipment approved for this project shall meet or exceed all performance, service, and warranty requirements of this specification.
- D. Approved Pump Manufacturers
 - Fairbanks
 - Flygt
 - Hydromatic

1.02 QUALITY ASSURANCE

- A. Manufacturer's Qualifications
 - 1. All equipment approved for this project shall meet or exceed all performance, service, and warranty requirements of this specification.
 - 2. The solids-handling pumps shall be suitable for domestic sewage containing rag laden solids, pre-treatment effluent, plant effluent, and possible storm water and shall be designed and fully guaranteed for this use. The fluid temperature range shall be from 40 degrees to 104 deg. F.

1.03 OPERATING CONDITIONS

- A. Pumps shall be provided for 480 VAC/Three Phase service. The pumps shall be

designed to operate between 30 and 60 Hz. The pump shall be non-overloading throughout the specified range of operation without employing a service factor.

- B. The pumps shall also be capable of continuous operation at full load, fully submersed, without cavitation or overheating of the motor. The pump shall reserve a minimum service factor of 1.15.
- C. The pumps for each station shall be capable of providing :

Head					
Flow (GPM)	500	1000	1500	1800	2000
TDH (FT)	10.50	13.70	18.97	23.16	26.38

No. Pumps	2	Type of Drive	Variable
Design Capacity (per Pump)	1800	Total Dynamic Head (FT)	23.16
Design Speed	1750	Horsepower / Pump	20
Min. Solids Size	3"	Hyd. Eff. \leq 60Hz	76.5%

1.04 TESTING

A. General

Each pump shall be shop tested and field-tested as specified hereinafter. All costs for the tests shall be borne by the Bidder. In the event any equipment fails to meet the performance values set forth in this specification, the equipment shall be modified and re-tested or replaced with equipment that performs in accordance with this specification.

B. Field Tests

Equipment shall be field tested as specified hereinafter. Field tests shall be composed of preliminary tests and acceptance tests. The Bidder shall provide the services of authorized equipment supplier's representatives to conduct all field tests.

1. Preliminary tests shall be run on all pumps, motors, and control systems to demonstrate that they are in proper working order. This shall include electrical resistance and 600V megger testing of the motor. Imbalance between stator phase outside of the manufacturer's recommended tolerance or a meg-ohm value of lower than 500 meg-ohms will not be acceptable.
2. Acceptance tests shall be run to demonstrate that the pumping units, motors and control system meet the following requirements:
 - a. The pumping units shall operate as specified without excessive noise, cavitation, vibration, and without overheating of the bearings, or without seal leakage as detected by the control equipment.

- b. All automatic and manual controls shall function in accordance with the specified requirements.

1.05 SUBMITTALS

- A. Furnish complete assembly, foundation support, and installation drawings, together with detailed specifications and data covering pumps, motors, material used, parts, devices and other accessories forming a part of the equipment furnished shall be submitted for approval in accordance with the procedure set forth in the General Conditions.

Data and specifications for the equipment shall include, but shall not be limited to the following:

- a. Setting Plans. Setting plans shall include:
 - 1. Anchor bolt layout
 - 2. Anchor bolt dimensions
 - 3. Outline dimensions and weights of pumps, bases, motors, and control enclosures.
- b. Pumps. Data and drawings shall include:
 - 1. Manufacturer, type and model number.
 - 2. Assembly drawing, nomenclature and material list, O&M manual, and parts list.
 - 3. Type, manufacturer, model numbers.
 - 4. Impeller type, diameter, thru-let dimensions, number of vanes and identification number.
 - 5. Complete motor performance data including: rating, voltage/phase/frequency; design type; service factor; insulation class; motor pole number; actual rotation speed when combined with the specified pumps; current, power factor and active input power (KW) as a continuous function of shaft power from no load to at least 115 percent load, start (max. inrush) current; locked rotor current; NEC code letter; and motor torque as a continuous function through the motor start cycle from no rotation to synchronous speed.
 - 6. Complete performance test curve(s) showing full range (shutoff to run-out) head vs. Capacity, NPSHR, hydraulic efficiency, motor active (KW) input power, and shaft power (BHP).
 - 7. Location and description of Service Centers and spare parts stock.
 - 8. Warranty for the proposed equipment.

The manufacturer shall indicate, by arrows to points on the Q/H curves, limits recommended for stable operation, between which the pumps are to be operated to prevent surging, cavitation, and vibration. The stable operating range shall be as

large as possible, and shall be based on actual hydraulic and mechanical characteristics of the units and shall meet the hydraulic performance requirements of the proposed system.

- B. Furnish shop drawings and other pertinent data to the Engineer and obtain his approval before fabrication. The drawings shall be complete with respect to dimensions, materials of construction, wiring diagrams, and all supporting engineering information.
- C. At least one month before installation of this work, submit four (4) copies of operation and maintenance instructions to the Engineer.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Deliver store and handle items of equipment in a manner that will prevent any damage.
- B. Follow manufacturer's instructions for short term and long term storage, particularly with respect to proper lubricants and periodic rotation of shafts and bearing.
- C. Touch up shop paint to prevent corrosion.

1.07 CO-ORDINATION

- A. Co-ordinate this work with the work of other trades to avoid interferences and to provide for timely installation.

PART 2 - PRODUCTS

2.01 Solids-Handling Pumps with Electric Submersible Motors

- A. Furnish submersible solids-handling pumps as noted on the plans. Pumps shall be furnished with a submersible cable with length as necessary to reach the termination point shown on plans plus additional 10' (ten) feet. The cable shall be suitable for submersible pump applications. The power cable shall be sized according to NEC and ICEA standards.
- B. Electrical power cord shall be SOOW, W or SUBCAB, water and oil resistant 600V, 60°C., UL and CSA approved and applied dependent on amp draw for size.
- C. Each pump shall be supplied with a mating cast iron base elbow drilled on an ANSI B16.1 bolt pattern.

2.02 PUMP DESIGN

- A. The pumps for this application shall be designed to operate in a partially submerged configuration without the need of an external cooling source. The motors and cable entry system shall be capable of complete submergence and capable of handling a liquid temperature of at least 104 degrees F.

2.03 PUMP CONSTRUCTION

- A. Major pump components shall be of gray cast iron, ASTM A-48, Class 30 or 35B, with smooth surfaces devoid of blow holes or other casting irregularities. All exposed nuts or bolts shall be AISI type 300 series stainless steel. All metal surfaces coming into contact with the pumped media, other than stainless steel and/or brass, shall be protected by a factory-applied coating system suitable for sewerage pumping applications.

Sealing design shall incorporate metal-to-metal contact between machined surfaces. Pump/Motor unit mating surfaces where watertight sealing is required shall be machined and fitted with Nitrile or Viton Rubber O-rings. Joint sealing will be the result of controlled compression of rubber O-rings in two planes and O-ring contact of four sides without the requirement of a specific bolt torque limit.

2.04 COOLING SYSTEM

- A. Each unit shall be provided with an adequately designed integral cooling system that allows a minimum of 12 motor starts per hour with a partially-submerged motor on a continuous basis in an ambient 104 degree F environment, and in a standard available version, with no damage to motor windings, bearings, or drive shaft seals. The pump supplied under this specification shall be suitable for continuous operation; under, partially submerged conditions. The cooling system shall be either a radiant heat sink type system integral to the stator housing, or closed loop system providing for dissipation of motor heat, regardless of the type of pump installation.

2.05 CABLE ENTRY SEAL

- A. The cable entry seal design shall provide strain relief and preclude specific torque requirements to insure a watertight and submersible seal. The cable entry shall be a compression type with at least two compression seals on units larger than 10 Hp. A single grommet shall be suitable for units 10 Hp and below. The assembly shall provide ease of changing the cable when necessary using the same entry seal.

The cable junction chamber shall be separated from the stator housing and shall allow connection of the motor leads to the power cable in a separate sealing chamber

2.06 MOTOR

- A. Each pump shall be driven by a vertical, submersible squirrel cage induction motor, shell type NEMA B design, and housed in an oil filled or dry watertight chamber. The motor and pump shall be provided by the same manufacturer. The motor shall be rated by Factory Mutual (FM) for NEC Class I, Div. I, Group C&D locations.
- i. The stator winding shall be insulated with moisture resistant Class H insulation, rated for a temperature of 180°C.
 - ii. The motor shall be capable of withstanding at least 12 evenly spaced starts per hour.
 - iii. Motor shall be equipped with integral heat sensors, one for each phase (three phase motor). The heat sensor(s) shall be a low resistance; bi-metal disc that is temperature sensitive. They shall be mounted directly on the stator windings. The sensors shall be connected in series with motor starter coil so that the pump ceases operation when an over-temperature condition is sensed. These sensors shall be used in conjunction with and supplemented by external motor over-current protection located at the control panel. The pump shall cease operation when the overload is tripped. The overload shall be manually reset.
 - iv. The motor service factor shall be 1.15. The motor shall have a voltage tolerance of plus or minus 10%. The motor shall be designed for continuous operation in a 40°C. ambient environment and shall have a NEMA Class B maximum operating temperature rise of 80°C. A motor performance curve shall be provided upon request.
 - v. The pump and motor shall be specifically designed so that they may be operated partially or completely submerged in the liquid being pumped.
 - vi. The motor shall be sized to be non-overloading when the pump is operated at any point on the pump performance characteristic curve.
 - vii. Pump and motor shaft shall be a solid continuous unit. The pump shaft is an extension of the motor shaft. Couplings and shafts incorporating sleeves shall not be acceptable.
 - viii. The power cable shall be sized according to the NEC and ICEA standards and shall be of sufficient length to reach the junction box without the need of any splices. The outer jacket of the cable shall be oil resistant chlorinated polyethylene rubber. The cable shall be capable of continuous submergence underwater without loss of watertight integrity to a depth of 65 feet or greater.
 - ix. For VFD applications, pump shall be reversible

2.07 BEARINGS

- A. The integrated pump/motor shaft shall rotate on at least two (2) sealed and permanently lubricated bearings. External bearing lubrication ports, which allow bearing contamination and over-packing, will not be allowed. The upper bearing, providing for radial thrust, shall be a single row, roller or ball bearing. The lower bearing shall consist of at least one double row angular contact bearing for combined axial and radial loads. Minimum L_{10} bearing life shall be 40,000 hours at any usable portion of the pump curve. Double row, sealed grease packed bearings shall not be acceptable. Bearings, which require lubrication according to a prescribed schedule, shall not be acceptable.

2.08 MECHANICAL SEAL

- A. Each pump shall be provided with dual tandem mechanical shaft seal system comprising two totally independent seal assemblies. The seals shall operate in a seal lubricant buffer chamber. The inner seal, located between the lubricant buffer chamber and the stator housing, shall contain one stationary and one positively driven rotating ring, functioning as an independent secondary barrier between the pumped liquid and the stator housing. Both inner seal faces shall be corrosion resistant Tungsten Carbide or Ceramic. The outer of the tandem set of seals function as the primary barrier between the pumped liquid and the stator housing. Seal materials of Silicon Carbide or other dissimilar materials will not be acceptable. The seals shall require neither maintenance nor adjustment, but shall be easily inspected and replaceable.

No seal damage shall result from operating the pumping unit in its liquid environment, from running pump dry, or from reverse pump operation. The drain and inspection plug shall be easily accessible from the outside.

2.09 PUMP SHAFT

- A. The pump and motor shaft shall be a single piece unit. The pump shaft is an extension of the motor shaft. Shafts using mechanical couplings shall not be acceptable. The shaft shall be 300 series stainless steel and or – ASTM A479 S43100-T.

2.10 IMPELLER

- A. The impeller shall be of ASTM -48 Grey Iron Castings Class 30, ASTM 536-80 Class 65 Ductile Iron, Hi-Chrome Iron, ASTM A532 (Alloy III A) 25% or Type 416 or 420 Stainless Steel. The impeller shall be a non-clog design.
- B. The impeller shall be capable of handling solids, fibrous materials, sludge and other matter commonly found in municipal waste water.
- C. Impellers shall be hydraulically and statically balanced. The tolerance values shall be listed below according to the International Standard Organization grade 6.3 for rotors in rigid frames.

RPM	Tolerance
1750	.02 in. – oz./lb. of impeller weight.
1150	.026 in. – oz./lb. of impeller weight.
870	.03 in. – oz./lb. of impeller weight.

2.11 VOLUTE

- A. The casing shall be of the end suction volute type having sufficient strength and thickness to withstand all stress and strain from service at full operating pressure and load. The casing shall be the centerline or tangential discharge type equipped with an automatic pipe coupling arrangement for ease of installation and piping alignment. The design shall be such that the pumps will be automatically connected to the discharge piping when lowered into position with the guide rails. The casting shall be accurately machined and bored for register fits with the suction and casing covers. The Pump shall be supplied with impeller and volute axial type wear rings of stainless steel.

2.12 PROTECTION

- A. All stators shall incorporate thermal switches in series to monitor the temperature of each phase winding. At a maximum of 140°C the thermal switches shall open, stop the motor and activate an alarm.
- B. Each pump/motor unit shall be provided with a stator leakage sensor that will sense water intrusion into the motor housing in the event of seal failure or cable entry failure.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Inspect all equipment upon arrival at job site and prior to installation. Notify manufacturer of any damage and/or shortage.

3.02 PREPARATION

- A. Make corrections and/or repairs as required for items inspected and found being deficient.

3.03 INSTALLATION

- A. Install pumps and accessories in strict accordance with the manufacturer's instructions.

3.04 FIELD QUALITY CONTROL

- A. The manufacturer's field engineer or representative shall inspect and check the installation after erection and be on hand for initial start-up of the equipment. Manufacturer's representative shall also instruct waste water personnel in the operation and maintenance of the system. Contractor to furnish a minimum three (3) day advanced notice of start-up.

3.05 ADJUSTING AND CLEANING

- A. Adjust equipment as required and within limits of manufacturer's instructions for proper alignment.
- B. Apply proper type and quantity of lubricants for short term storage or start-up operation as applicable.
- C. Clean equipment of any foreign matter or substances.
- D. Field paint all components to be painted in accordance with manufacturers recommendations.

3.06 PROTECTION

- A. After installation and painting, Contractor to protect the equipment from any damage by work of other trades. Repair any damage that nevertheless occurs according to manufacturer's recommendation..

PART 4- SERVICE AND WARRANTY

4.01 SERVICE

- A. The pump manufacturer shall have a direct factory service center/stocking facility capable of completely servicing, and which stocks identical complete drive units, and spare parts for, the proposed pumps up to 100 HP. The System Supplier shall be capable of a form of direct responsive communication within a two (2) hours notification in regards to service requests and parts availability.

4.02 WARRANTY

- A. The pump manufacturer shall provide a full repair and/or replacement warranty against defects in material or workmanship for a period of one (1) year from date of start-up and a prorated repair and/or replacement warranty for the units supplied to the Owner against defects in material and workmanship for a period of at least five (5) years or 10,000 operating hours in writing under the operating conditions presented by this project.

END OF SECTION

**PUMP CONTROL PANEL
(Pumps 10 HP or greater)
SECTION 16500**

PART I: GENERAL

1.01 The Requirement

- A. General: The CONTRACTOR shall furnish, install, and place into service a **Duplex or Triplex** Control System furnished by the System Supplier. The system shall include a Programmable Pump Controller with Variable Frequency Drives. Each system will be described in detail herein and shall be provided with interface hardware and software in order to synchronize the pumps with a varying flow regime while maximizing output and efficiency. The service disconnect and meter pan shall be furnished in accordance with local utility requirements. The furnished Control Panel shall be Telemetry and Control (SCADA) capable via a cellular communication system. The control system shall be capable of being integrated into the Jefferson Parish SCADA system, if so desired. Where applicable, Jefferson Parish personnel shall perform the work of system integration. Any required data transmission devices (modems, routers, etc.) shall be provided by the supplier and integration shall not be part of this contract.
- B. Installation and equipment shall comply with latest revision of NEC, NFPA 820 and NFPA 70E.
- C. Equipment shall have Arc Flash labeling in compliance with NFPA 70E based upon information provided by the electrical consulting engineer.
- D. System Supplier: Due to the critical nature of the system, the complete pumping system and duplex/triplex control panel shall be furnished and warranted by a Single System Supplier - refer to Division 11 for the specified pumping equipment .

One Responsible Supplier: The system described herein, shall be furnished by a Single System Supplier. The control panel shall be furnished by a Systems Integrator represented by the System Supplier and shall be regularly engaged in the business of system integration for municipal pump stations, and be familiar with all aspects of fully automated process control systems. The supplier shall be a certified member of Control System Integrators Association (CSIA). The responsibility for performance to the specification in its entirety shall not be split up amongst individual suppliers of components comprising the system, but must be assumed solely by the System Supplier of the entire system – pumping system and control system. The System Supplier shall furnish the Owner with program implementation and customization as required in this specification. In addition, the System Supplier shall furnish schematics, wiring diagrams for the system components, interconnection schematics, and field point to point wiring diagrams showing all connections to each individual piece of equipment within the system.

E. Approved Pump Controller Manufacturers

- Tesco
- Flygt
- Primex

1.02 Submittals

The Systems Integrator shall provide the following documents to the engineer for review.

- Bills of Material
- Elevation and Base Plan drawings
- Wiring diagrams
- Catalog cut-sheets
- Non-Prorated 5-year Warranty for Programmable Pump Controller
- 5-year Warranty for Variable Frequency Drives
- 5-year warranty for Level Monitoring System compressor if used
- 5-year warranty for radar controlled Level Monitoring Equipment if used
- 1-year warranty for all other electrical components not listed above
- Documentation that all printed circuit boards have conformal coating
- Proof Supplier is a Control System Integrators Association (CSIA) certified member.

1.03 Quality Assurance

- A. The System Supplier shall furnish technical information as necessary to ensure that the equipment furnished may be installed by the electrical contractor. This information shall include, but not be limited to, providing the installing contractor with information and direction prior to the commencement of the installation work, answering of all questions regarding the installation and hookup, and a complete check of the completed installation to ensure that it is in conformance with the requirements of the equipment and the Contract Documents.
- B. Calibration: The pump control panel System Supplier shall furnish the services of a trained technician to perform a complete system calibration and startup. Those components having adjustable features shall be set for the specific conditions and applications, and within the specified limits of accuracy. Defective elements which cannot achieve proper calibration or accuracy, either individually or within the system or subsystem, shall be replaced. A complete record of the calibration checks and adjustments shall be made and delivered to the ENGINEER & Owner upon completion of the system calibration.
- C. Testing: Systems shall be exercised through operational test in the presence of the ENGINEER in order to demonstrate achievement for the specified performance. Attention is directed to all applicable equipment testing and system startup sections for additional requirements relating to testing.

1.04 Functional Description

- A. General - The Control System shall be comprised of a Programmable Pump Controller with VFD's to perform the required functions specified herein. Accordingly, the required system shall meet the functional requirements of this specification in its entirety. Pump Station Functions of all Types shall operate in a pump down mode of operation. The On/Off setpoints for each pump shall be user adjustable or randomized based on inflow rate. The system shall be capable of accepting analog inputs, digital inputs, from various sources as shown on the drawings. Analog and Digital Outputs shall be as shown on the plans and as per the Table 1 herein.
- B. The system will monitor and communicate as required with the Owner's SCADA system at a minimum the following:
- a. Pump station power – station voltage for three phase power – including failure
 - b. Pump run signals, pump fail signals
 - c. Wet well level status – low water level, high water level and alarms
 - d. Pump thermal sensors fault
 - e. Pump seal leakage fault
 - f. Pump overcurrent fault
 - g. pump alternation – rotary, fixed, and FOFO based on available pumps
 - h. Hand-Off-Automatic Operation
 - i. Level control system function/failure indication
 - j. Redundant level system
 - k. Communications status and failure
- C. Programmable Pump Controller with VFD shall incorporate the above features and shall provide for the following:
- a. Regulation of pump speed to provide for minimum energy consumption based on station inflow and actual energy consumption of the installed pumping equipment, and maximum speed based on wet well level. The optimal speed shall vary based on changing inflow without operator intervention
 - b. Regulation of Pump Speed to insure that pump performance does not operate at speeds too low to move water
 - c. Pump Self-Cleaning by means of a forced stop, reversal and forward run timed to allow for debris to fall from impeller.
 - d. Wet Well Cleaning based on user programmable time settings.
 - e. Sewer FM Pipe Cleaning to remove sediment build up during prolonged low flow periods..
 - f. Run Time Averaging based on actual operating conditions for the pumps installed to insure even wear of the equipment.
 - g. VFD temperature monitoring alarm
 - h. Reporting and monitoring of station effluent pumping rate either by algorithm or installed flow meter.

PART II: MATERIALS

2.01 Pump Control Panel Enclosure

A. General Requirements

Furnish all equipment as shown on drawings in a ,weatherproof (NEMA 3RX), 316 stainless steel (dull finish) panel with rain tight cap, sealed bottom and applicable manufactures support or as indicated on drawings. Along with exterior doors, the Pump Control Panel enclosure shall be furnished with hinged interior dead-front doors. Outer enclosure shall be constructed of 12-gauge, 316 stainless steel (dull finish to reduce glare). Doors shall be equipped with 316-stainless steel polished handles with 3-point latches and hasps for owner padlocks. Doors shall be hinged on the same side and shall open to at least 90 degrees. All doors (exterior and interior) shall also be furnished with 316 stainless steel metal doorstops for use in windy conditions. All dead-front latches shall be 1/4 turn adjustable with 1/8" thick latching dog and knurled knob. All interior mounting hardware shall be stainless steel. Enclosure exterior shall be unpainted stainless steel, dull finish (to prevent glare from passing car headlights). Interior color including front and back of all hinged dead front doors, separation barriers and mounting backpans shall be painted with powder coat enamel.

The enclosure shall be compartmentalized such that the Controls section shall be isolated from the power sections. If required, space shall be available in the Pump Control Panel for the mounting of existing or new telemetry components (radio/modem, battery and charger). All openings shall be sealed to prevent entrance of insects and rodents.

The Pump Control Panel shall house the main circuit breaker, and backup generator receptacle circuit breaker with approved mechanical interlock to prevent both breakers from being closed concurrently. The main circuit breaker, generator circuit breaker, and all wiring shall be located behind an interior dead front door. Interlocks and circuit breaker operation shall be possible without opening the dead front door. Elapsed time meters, indicating devices and H.O.A. switches, where required, shall be mounted on the inside dead front door. Breaker cutouts for breaker toggle protrusion shall be supplied, to eliminate exposure to hazardous potentials. A physical lockout device shall be supplied on each motor circuit breaker. The control panel shall be thermostatically controlled by heating and cooling systems - without the use of an air conditioner - to maintain suitable climate conditions within the control panel. Lightning/surge protection and PFR power fail relay shall be furnished to protect the panel equipment from lightning, loss of power or utility power surges. Provide GFCI receptacle, intrusion switch and LED light with door activated switch in each panel section. Provide site area light switch with associated circuit breaker protection. All bussing and wire shall be copper. All wire shall be stranded with locking spade pressure connectors and labeled with clip-on permanent plastic wire markers. All circuit breakers and dead-front mounted devices (lights and switches) shall be equipped with engraved phenolic nameplates.

B. Utility Metering

Metering shall meet all requirements of, and be approved by, the local utility company. The control panel may be supplied with an integrated metering compartment or the contractor shall furnish a detached metering pan and shall be U.L. labeled as suitable for use as service equipment only. For integrated metering compartment, the pull section and utility compartments shall be accessible only by the local utility company. The pull section shall include circuit breaker disconnect and neutral landing lug per local utility requirements. All bussing and wire shall be copper.

C. Generator Cable Entrance and Generator Connection

The generator cable entrance shall be a 3" PVC nipple conduit and 3" 45 degree angled PVC pass through with threaded cover attached by an appropriate stainless steel chain. This shall function as a simple cable pass through; no generator receptacle shall be provided. The access nipple shall be located on the side of the panel near the Emergency breaker. The nipple location shall meet all NEC clearance requirements. The Emergency breaker shall have lugs for generator wire connection.

D. Terminal and Distribution Blocks

Distribution blocks shall be furnished and installed as required for "fan-out" of control power and other 120V sources within the enclosure. The blocks shall be rated 300V at a minimum of 20 amperes and sized for the conductors served. Distribution blocks shall be Marathon or equal.

E. Circuit Breakers

All 480 volt circuit breakers shall have minimum interrupting capacities at 35,000 amperes. All 240 volt circuit breakers shall have minimum interrupting capacities at 35,000 amperes. All 120 volt breakers shall be minimally rated at 10,000 amperes interrupting capacity. Circuit breakers shall be of the indicating type, providing ON, OFF and TRIPPED positions of the operating handle. Circuit breakers shall be quick-make, quick-break, with a thermal-magnetic action, except when protecting motor feeders where motor circuit protector (MCP) breakers may be used. Circuit breakers shall be the bolted on type. The use of tandem or dual circuit breakers in a normal single-pole space to provide the number of poles or spaces specified is not acceptable. All multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open. Circuit breakers shall meet the requirements of UL and NEMA AB I. Breakers shall be Cutler Hammer HMCP, QC or equal. All circuit breakers shall be heavy duty molded case circuit breakers conforming to Federal specification W-C-375B and shall be UL listed.

F. Motor Control –

- A. A Programmable Pump Controller is used to meet the Functional Description requirements with provided Variable Frequency Drive for each pump in the system, sized for the appropriate voltage and current required by the connected load not

including the motor service factor. The unit shall be a minimum 6 pulse PWM type as follows:

- a. The VFD shall be capable of running either variable or constant torque loads. In variable torque applications, the VFD shall provide a CT-start feature and be able to provide full torque at any speed up to the base speed of the motor. In either CT or VT mode, the VFD shall be able to provide its full rated output current continuously and 110% of rated current for 60 seconds.
- b. The VFD shall provide internal DC link reactors to minimize power line harmonics and to provide near unity power factor. DC Link reactor shall be installed so that power fluctuations to the DC Capacitors shall be reduced to increase Capacitor life. VFD's without a DC link reactor shall provide a 5% impedance line side reactor.
- c. Printed Circuit boards shall be conformal coated to reduce the corrosion effect from environmental gases and other conditions. The conformal coating must meet IEC 61721-3-3, Class 3C2.
- d. VFD shall include circuitry to detect phase imbalance and phase loss on the input side of the VFD.
- e. VFD shall auto-derate the output voltage and frequency to the motor if an input phase is lost. This result will maintain operation without decreasing the life expectancy of the VFD. The use of this feature shall be user selectable and export a warning during the event.
- f. VFD shall auto-derate the output frequency by limiting the output current before allowing the VFD to trip on overload. The speed of the load can be reduced, but not stopped.
- g. The ambient operating temperature of the VFD shall be -10°C to 50°C (14 to 122°F), with a 24-hour average not to exceed 45°C. Storage temperatures shall be -13° F (-25° C) to 149/158° F (65/70° C). 0 to 95% relative humidity, non-condensing.
- h. VFD shall provide full torque to the motor, given input voltage fluctuations of up to +10% to -15% of the rated input voltage (525 to 690VAC, 380 to 480VAC, or 200 to 240VAC). Line frequency variation of $\pm 2\%$ shall be acceptable. No side clearance shall be required for cooling of the units where

B. Nameplates

Nameplates shall be black phenolic with white lettering. Nameplates shall be stainless steel screw mounted. Sheet metal screws will not be acceptable. Glue type will not be acceptable.

C. Control Power Transformer

Transformer shall be furnished with primary and secondary fusing. Transformer shall be encapsulated with electrical grade epoxy and silica sand to completely seal the core and

coils from moisture and contaminants. Transformer shall be designed for quiet operation, 180 deg. C insulation system standard with 115 deg. C temperature rise for longer, more reliable life. Transformer shall meet or exceed all applicable NEMA, ANSI, OSHA, UL and CSA requirements.

D. Panelboard

Where required, panelboards shall be circuit breaker type custom constructed to utilize minimum enclosure space with breakers as shown. Circuit breakers shall be bolted on type. The panelboard shall be furnished with phenolic nameplates. The panelboard transformer shall be dry type construction sized as shown on the plans with primary breaker protection. The panelboard transformer shall be a Jefferson 411 or equal.

E. Panel Lights

Where required, furnish and install push-to-test lights to indicate status and alarm conditions locally as shown on drawings. Custom engraved phenolic nameplates shall specify each light's function. Lights shall be wired as shown on drawings. Panel lights shall be full voltage Allen Bradley 800H series or equal.

F. Push-buttons and Selector Switches

Where required, furnish and install push-buttons and selector switches as shown on drawings. Engraved phenolic nameplates shall specify each switches function. Switches shall be wired as shown on drawings. Switches shall be full voltage Allen Bradley 800H series or equal.

G. Receptacles, Duplex

Receptacles shall be of specification grade and of NEMA configuration and rated 2 pole, 3 wire grounding, 20 amperes, 125 volts, such as Hubbel or equal. Bases shall be of ivory phenolic composition. Wire terminals shall be suitable for 10 AWG wire and shall be screw type. Receptacles shall be U.L. listed. The receptacles shall have corrosion resistant conducting parts of nickel-plated brass and other metal parts of stainless steel. All external and dead front receptacles shall be installed on ground fault interrupter circuits "GFCI".

H. Relays, Control

Control relays shall be Idec Type RR or equal. Two form-C contacts (minimum) shall be provided on each relay. Provide relay energized neon lamp (inside relay case).

I. Relays, Float Switch Interface

Float interface relays shall be provided for functions as shown on plans. The units shall be specifically designed for monitoring intrinsically safe circuits. The unit shall utilize low current (120 micro amps maximum) and low voltage (12 volts d-c maximum) limiting the power entering the hazardous area to less than 1.5 milli-watts. Unit sensitivity shall allow pick-up on circuit closures of 100 K ohms or less.

- 2.01 The Contractor shall provide and maintain adequate pumping equipment, force mains and other necessary appurtenances in order to maintain reliable sanitary sewer service in all sanitary sewer lines as required for construction. The Contractor shall have a backup pump(s) with automatic controls during times of main by-pass pump outages or above capacity system flows. Each bypass pump shall have a gallons per minute (GPM) capacity that at least 1.15 times the stations single pump design capacity and meets or exceeds the total dynamic head (TDH) of the system design point shown on the plans and Section 16500.

The contractor shall have force main(s) and appurtenances ready to deploy immediately in case of primary system failure(s). The Engineer shall approve appurtenances and discharge point. Any spillage, backups and/or overflows, etc. as the result of inadequate equipment are the sole responsibility of the Contractor.

The Contractor shall demonstrate that the pumping system is in good working order and is sufficiently sized to successfully handle flows by performing a test run for a period of 24 hours prior to beginning the work. The Contractor shall be required to have all materials, equipment and labor necessary to complete the repair or replacement on the job site prior to isolating the sewer manhole and beginning bypass-pumping operations.

PART 3 - EXECUTION

- 3.01 The Contractor shall provide bypass pumping of sewage and wet weather flows during construction as needed. The Contractor will be required to provide in writing a sequence of bypass pumping for review and approval by the Engineer. The Contractor shall also provide the Engineer a sketch showing the location of bypass pumping. The Contractor shall be responsible for all required pumping, equipment, piping, etc., to accomplish the sequence of pumping. The Contractor shall cease bypass-pumping operations and return flows to the new or existing sewer lift station when directed by the Engineer. All piping(s), joints and accessories shall be designed to withstand at least twice the maximum system pressure, or a minimum of 50 psi whichever is greater. During bypass pumping, no sewage shall be leaked, dumped, or spilled in or onto, any area outside of the existing sanitary sewer system. When bypass-pumping operations are complete, all pumping shall be drained into the sanitary sewer prior to disassembly.

3.02 PUMP OPERATION:

1. The Contractor shall plug off and pump down the sewer manhole in the immediate work area and shall maintain the sanitary sewer system so that surcharging does not occur. Where work requires the line to be blocked beyond working hours, Contractor shall operate bypass-pumping system 24 hours a day by the use of automated controls.

2. The Contractor shall provide a list of emergency contacts in an event the by-pass system fails after working hours.
3. The contractor shall inspect and verify by-pass pump operations a minimum of once per day during non-work days.
4. The contractor shall install a sign on the pump with the phone number of the parish sewer department dispatcher and an available contractor representative during periods after working hours in case of a by-pass failure.
5. The contractor is to notify Jefferson Parish Sewer Dispatch of the temporary by-pass location and contractor contact number for reports of by-pass failure.
6. The Contractor shall ensure that no damage will be caused to private property as a result of bypass pumping operations. Ingress and egress to adjacent properties shall be maintained at all times. Ramps, steel plates or other methods shall be deployed by the Contractor to facilitate traffic over surface piping.
7. The Contractor shall immediately notify the Sewer Department and Engineer should a surcharge occur that results in an overflow of sewage. Should such surcharge damage the materials and/or equipment that are used on the job and/or adjacent property, it shall be corrected at no additional cost to the Parish. In the event that sewage accidentally drains into the drainage system or street, the Contractor shall immediately stop the overflow, notify the Inspector, and take the necessary action to clean up and disinfect the spillage to the satisfaction of the Engineer. If sewage is spilled onto public or private property, the Contractor shall wash down, clean up and disinfect the spillage to the satisfaction of the Engineer.
8. The Contractor shall locate bypass pumping suction and discharge lines so as to not cause interference with the use of streets, private driveways and alleys. In cases where the suction and or discharge lines are required to be buried for vehicle/pedestrian traffic, cost for this work is incidental and includes complete restoration of any surface features disturbed. The use of H-20 rated temporary traffic ramps is approved for low traffic areas only.
9. The Contractor shall not intentionally damage or remove portions of existing storm sewer system structures or sanitary sewer structures for the purpose or installing bypass pumping system without specific approval from the Engineer. If a structure is damaged, it shall be reconstructed or replaced to the satisfaction of the Engineer at no additional cost to the Parish.
Jefferson Parish shall not be responsible for any damage to the bypass pumping system sustained by the Contractor directly or indirectly as a result of storm water runoff within streets, ditches and/or storm sewer systems. The Contractor shall be responsible for any and all damage that results directly or indirectly from the interference of storm water runoff to bypass pumping equipment, piping and/or appurtenances. **It is the intent of these specifications to require the Contractor to establish and maintain adequate bypass pumping as required regardless of the flow conditions.**

J. Relays, Time Delay

Where required, time delay relays shall be solid state relays with a timer adjustable over the range 1 to 60 seconds unless other ranges are indicated or required. Provide LED relay energized indicator lamp. Time delay relays shall be Idec RTE or equal.

K. Relays, Pump Moisture Sensing

Pump moisture sensing relays shall be provided for submersible pumps. The units shall be specifically designed for monitoring the required circuits. Where required, the units shall be supplied by the pump manufacturer for mounting in the control panel. The integrated VFD or Pump Controller may also be configured to monitor the circuit directly without the use of external relays.

2.02 Programmable Pump Controller (PPC)

A. Manufacturer

The Programmable Pump Controller shall be procured from a manufacturer that has at least 20 years experience manufacturing Programmable Pump Controllers designed specifically for the water and waste water industry. The PPC itself and support for the controller shall be available directly from the manufacturer. Programming services shall be available direct from the manufacturer as a normal practice.

B. Warranty

The manufacturer shall provide a factory-standard non-prorated 5 year warranty with the unit. The replacement controller shall be available within 24 hours, installed and running at the station, without requiring that the original unit first be removed and returned to the factory.

C. Support

The manufacturer shall provide 24/7/365 support for questions related to any aspect of the controller, including general use, application-specific issues, programming, and use of the programming software. This support shall be available directly from the manufacturer at no extra charge with the purchase of a controller.

D. Operating Conditions

The Pump Controller shall operate correctly under an ambient temperature range of -40 to +185 degrees F. Coatings on connectors, component leads, and other materials used in the construction of the Programmable Pump Controller shall be substantially resistant to atmospheres containing significant amounts of Hydrogen Sulfide gas and Chlorine gas.

E. Performance

1) Processor Card

The Programmable Pump Controller shall be microcontroller-based, using a microcontroller that, at minimum, offers the following:

- a. Analog Inputs
- b. Digital Inputs
- c. Analog Outputs for VFD Control
- d. Digital Outputs for Specific Internal Functions or Alarms
- e. Ethernet Port – 10 MB/Sec
- f. RS232 Port – 115 kB/Sec
- g. RS485 Port – 115 kB/Sec
- h. MODBUS RTU and DNP3 Communications Protocols

The Programmable Pump Controller shall use a real-time, preemptive, multitasking operating system, contained in Flash memory. The Flash memory shall also contain all firmware that is not specific to a particular job or application, such as operator interface and communications firmware.

2) Input/Output Characteristics

The Programmable Pump Controller shall provide built-in digital filtering of analog inputs. The filter constants shall be adjustable from the keyboard and through the communications ports.

G. Field Wiring Terminal Blocks

The terminal blocks shall support the following listed characteristics:

- pull-apart two piece wiring blocks for fast and easy wiring/re-wiring
- separate wiring blocks for each I/O type and each wire point fully labeled
- versatile internal or external analog power source
- digital outputs have LED “ON” indicators and socketed 10A relays
- entire terminal block shall snap on/off standard track mount
- onboard passive circuit protection to protect programmable controller shall be available with a built-in isolated current loop power supply, powered from the 12V DC main power. The current loop power supply shall be capable of producing at least 24V DC and 161 mA.
- three levels of lightning/surge protection

H. Power Supply

The Programmable Pump Controller shall be powered by a minimum 12V DC power supply. A 12V battery backup of the 12V DC shall be provided.

I. Operator Interface Unit

The Programmable Pump Controller shall be available with an operator interface that is an integral part of the unit, or the unit may be provided with a TouchScreen HMI – minimum 12”. Either operator interface shall be remotely mountable.

J. Programming

1) Language

The Programmable Pump Controller shall be programmable via a programming language which is native to the controller. The Programmable Pump Controller must also support IEC 61131-3 for additional programming languages.

K. Configuration

The Programmable Pump Controller shall be configurable via a configuration table, which shall be changeable both by downloading through a communication port and through the full and limited keyboards. The configuration table shall allow the operator to change virtually all significant operating parameters of the system.

L. Web Server

The Programmable Pump Controller shall be able to be integrated into and include an integrated web server for secured remote customized visualization of process data including a web server disable feature if not desired.

M. Communications

The Programmable Pump Controller shall have the ability to support serial communication and Ethernet communication. Any of these serial ports shall be usable for both communications of telemetry data and control program/configuration upload/download.

Communications channels shall have the capabilities of independent operation. Each channel shall have the following capabilities:

- Poll/Response
- Quiescent (Unsolicited)
- Master Polling
- Message Store and Forward
- Message Retries
- Communication Statistics and Diagnostics

The Programmable Pump Controller design shall incorporate Ethernet design using 100BASE-T interface and TCP/IP industry standard network protocol with the following features:

- Standard 100BaseT Interface (100Mbps data transmission, over twisted-pair cable with RJ45 connectors)
- Complies to IEEE 802.3 Specifications (Local Area Networks or Wide Area Networks)

- Separate LED Line Status Indicators
- Individual IP Configuration (Multi Network Configurations)
- Multi Protocol Support (Modbus TCP/Modbus RTU)
- Telemetry Message Routing

The Programmable Pump Controller must also have USB ports to support uploading/downloading of programs, external USB Drives and the ability to configure ports for additional communications channels.

1) Protocols

The unit shall support open architecture MODBUS RTU and DNP3 protocols.

2) Polled Slave Communications

The Programmable Pump Controller shall respond as a slave unit in response to polling messages from a master SCADA system or other unit. In this mode the Programmable Pump Controller shall only respond to requests for data and not initiate messages on its own.

3) Polling Master Communications

The Programmable Pump Controller shall initiate polls as a master unit and wait for the response from the slave device.

4) Quiescent Communications

Using quiescent (peer-to-peer) communications, the Programmable Pump Controller shall provide the ability to initiate messages transmitting register values under operator definable conditions.

5) Report by Exception Communications

The Programmable Pump Controller shall support a means of report-by-exception communications, where only those registers of interest that have changed since the last reporting are transmitted.

6) Message Routing

The Programmable Pump Controller shall provide the ability to route received messages that are destined for another unit. The routed message can be received and sent in any combination of communication ports and physical media.

7) Failure Recovery

The Programmable Pump Controller shall have the ability to switch to alternate communications paths in the event of failure of the primary path. There shall be no practical limit on the number of different paths that the Programmable Controller may try in order to deliver the information.

8) Redundant Message Elimination

The Programmable Pump Controller shall automatically provide redundant message elimination when peer-to-peer and polled communications are used in combination.

9) Other

The Programmable Pump Controller shall provide a means of enabling/disabling quiescent/polling master message initiation from the keyboard.

N. Calibration and Multipoint Calibration

A simple menu-driven procedure shall be provided that allows the operator to calibrate an analog input or output to an engineering unit measurement scale. This procedure shall be usable from both the full and minimal keyboards. The calibration information shall be uploadable and downloadable via a communication port.

O. Alarms

The Programmable Pump Controller shall provide alarm flags to be used to indicate application-specific alarm conditions. The Programmable Pump Controller shall provide a common alarm digital output, that can be configured to be any digital output and can be displayed anywhere on the LED annunciators.

P. Fault Tolerance and Reliability Features

1) Event Logging

The Programmable Pump Controller shall provide a mechanism that reports and logs unusual events and items of interest. The Programmable Pump Controller shall also support viewing of the RAM event log data by transmission via a communications port.

2) Fault Relay

The Programmable Pump Controller shall contain a normally closed fault relay that under normal operation shall be energized by the Programmable Controller to indicate a non-fault state. The fault relay shall go to a fault condition (non-energized) under the following circumstances:

- 12 V DC power failure
- Memory error or other internal operating error

3) Power Up Self Test

The Programmable Pump Controller shall perform a brief self test upon application of power, including:

- ROM checksum
- RAM write-protection circuit check

- Write-protected RAM CRC check

4) On Going Self Test

During normal operation (run or standby modes) the Programmable Controller shall run an ongoing self test process. The frequency with which the ongoing self test performs these checks shall be configurable by the operator.

5) Diagnostic Functions

The Programmable Pump Controller shall have the capability to perform self-test diagnostic functions under operator control to verify the integrity of the RAM and ROM inside the unit.

6) Activity Monitoring

The Programmable Pump Controller shall provide a mechanism for selectively viewing activity of certain integral subsystems. Text messages indicating activity shall be directable under operator control to the LED or a communication port.

9) Security

The Programmable Pump Controller shall be capable of being configured to require password entry before access to functions that would change the control characteristics or basic operating mode (run/standby) of the Programmable Pump Controller. Multiple passwords shall be supported.. If the operator does not operate the keyboard within a selectable time period, the Programmable Pump Controller shall log him out automatically. The Programmable Controller shall also support uploading and downloading of password configuration information via the communications ports.

10) Remote Control

The Programmable Pump Controller shall have the ability to remotely control other controllers of the same make using any of the communication ports. The operator shall be able to perform at least the following functions on the remote unit by using the local keyboard:

- Examine and change setpoints
- Examine analog input and output registers
- Examine and change timers and counters
- Force digital outputs on and off
- Override analog inputs and outputs
- Change operating mode between Run and Standby

Q. Programming Software

1) General

A free copy of the necessary programming software shall be provided with each Programmable Pump Controller purchased. The software shall be produced, provided and supported directly by the Programmable Pump Controller manufacturer. No third party tools are acceptable.

2) OPC Communications Server Software

OPC (OLE for Process Control) communications server program shall be available to poll the programmable controller and serve real-time data values to any OPC compliant client, such as spreadsheets, databases and SCADA systems. This software shall operate on a computer and shall poll the controller through any maintenance port to gather real-time data of any type and number. Also, the program shall operate remotely to poll for any real-time data in the controller. The program shall have the ability to operate in a multipoint controller environment, up to 100 controllers, with full hardware handshaking to the communications media. The program shall have the ability to display all telemetry message transactions for the communications port and shall utilize protocol disciplines such as retries, comm. failures and automatic comm. recovery methods.

The program shall have the ability to display all telemetry message transactions for the communications port and shall utilize protocol disciplines such as retries, comm. failures and automatic comm. recovery methods.

R. Pump Controller I/O Configuration

Analog Inputs and Output: Shall be provided as per I/O Table 1 at the end of this section.

Digital Inputs and Outputs: Shall be provided as per I/O Table 1 at the end of this section.

S. Additional Pump Controller Functions and Alarms

Pump Operations and Alarms: A user-programmable Start Level shall indicate the point at which the pump will start. Where required for VFD installations, upon activation the pump shall run at maximum speed for a pre-determined period, then slow down to an energy efficient and efficient pump speed. If the water level continues to rise the pump shall increase speed until the level falls. If the operating pump is at full speed and the level continues to rise then, at a user-programmable set point, an additional pump shall be called into concurrent service. When the water level reaches the user-programmable Off Level the pump shall stop. The system shall incorporate a minimum pump speed function that is self calculated or is user-programmable. There shall be an individually adjustable starter setpoint for each pump and a single stop setpoint. The pump start sequence shall be automatically alternated, with alternation on a first on/first off, first off/first on basis. If a pump fails to start, the next pump in sequence is started. High and low wet well alarms and transducer out of range alarms shall also be furnished.

Pump Run and Fail: When a pump is called to run, either through the local hand switch or automatic pump control, a pump run signal shall be generated. If flow is not sensed within an adjustable time period, a pump fail alarm shall be generated.

Bubbler Purge (if required): The Controller shall automatically purge the compression bell at an operator adjustable time and duration intervals. A manual purge push-button shall be installed to provide the operator capability to manually purge the level monitoring system.

Common Alarm: The Controller shall activate the common alarm beacon on occurrence of alarms.

2.03 Battery Backup

Battery back up system shall correctly sized to power the Controller, radio and I/O system for a minimum of 8 hours. Batteries shall be sealed gel cell type lead acid.

2.04 Primary Level Monitoring System: Reactive Air or Pulse Radar – Furnish Either Listed System

A. Air Compression Bell System

Air System Level Monitoring System shall consist of an air compressor, compression bell, 3-way solenoid valve, and level transducer. The level transducer senses the back pressure of the static air column set up in the compression bell that is periodically replenished by the purge air compressor. The compression bell shall be 316 stainless steel as shown on the contract plans and be designed for resistance to buildup of foreign material. The compression bell shall also be designed to travel within a PVC-type stilling well. The stilling well is not supplied by the Control Panel supplier and shall be 4" PVC conduit to match the depth of the wet well. The stilling well shall have several holes near the bottom in various locations to allow flow of liquid into and out of the stilling well. The specially designed programmed multi-cycle cleaning system shall prevent the compression bell from plugging while minimizing compressor run time. The air control shall also provide a means of manually actuating the purging cycle when immediate purging and cleaning is necessary. The Controller shall automatically purge the bell at an operator adjustable time and duration intervals. A manual purge push-button shall be installed to provide the operator capability to manually purge the level monitoring system. Compressors shall start against a 250-psi head and shall be furnished with a written 10-year warranty.

B. Microwave Pulse Radar

The radar level control shall be a microwave pulsed radar with an operating voltage range of 10 to 36 V DC. The exposed housing shall be made of PBT or PP polymer and shall be suspended above the wet well water surface by an approved manufacturer method and shall be easily accessible for maintenance personnel. Level measuring range shall be 40

feet maximum and have a +/-2 mm accuracy. Operating temperature range shall be -20 F to 150F. Output shall be 20mA/Hart, Profibus PA or Foundation Fieldbus. Product includes Vegapuls WL61 or approved equal.

2.05 Redundant Level Monitoring System

If an air bell primary level system was provided by the supplier, a secondary stainless steel Air bell Level Monitoring System with stainless steel mounting hardware shall be required. The air bell shall be 6" in diameter with 1/4" parflex tubing run continuously to the Pump Control Panel. The bottom of the bell shall be furnished with a "pointed cone" wire stainless steel mesh to prevent entry of grease or debris into the bell. A pressure switch mounted in the Pump Control Panel shall operate both pumps on high high level and stop the pumps on low level (below the bottom of the bell). Back up control system will only operate if the Programmable Pump Controller (PPC) is inoperable. Mount back-up Air Level Monitoring System air bell as specified section 2.04.

If a pulse radar primary level system was provided by the supplier then a non-mercury float switch system shall be provided for redundancy. The float back-up system shall be hard wired on a separate dedicated circuit.

2.06 Sump Termination Cabinet

Provide a NEMA 3RX-rated pump and control termination enclosures where shown on the drawings. The enclosure shall be 316 stainless steel with non-glare finish and shall be unpainted, vandal resistant with a lockable door. The bottom section will be mounted in a location and/or level clear of the Class I, Division I hazardous environment. Pump cable termination blocks shall be rated for a minimum 150% of the pump FLA and rated for the type of conductors used. The Sump termination cabinet shall be Tesco Model no. 24-STP-183024-SS or approved equal.

PART III: QUALITY ASSURANCE

3.01 Pump Control Panel Supplier Responsibility

In order to assume electrical and control system responsibility, the above specified Pump Control Panel and level monitoring systems shall be furnished by the pump supplier. In the event there are multiple pump stations on a project, all Pump Control Panels and level monitoring systems on the project shall be furnished by the same manufacturer.

3.02 Warranty

Upon station acceptance by the Owner, Pump Control Panel components shall carry:

- Non-Prorated 5-year Warranty for Programmable Pump Controller
- 5-year Warranty for Variable Frequency Drives
- 5-year warranty for Level Monitoring System compressor if used
- 5-year warranty for radar controlled Level Monitoring Equipment if used

- 1-year warranty for all other electrical components not listed above.

3.03 Spare Parts

The Pump Control Panel manufacturer shall furnish a complete set of recommended spare parts necessary for the first five (5) years of operation, which shall include at least the following:

1. 1 - relay for each type required, mounted in the Pump Control Panel
2. 1 - spare 20A circuit breaker mounted in the Pump Control Panel

Loose spare parts shall be properly bound and labeled for easy identifications without opening the packaging and suitability protected for long storage within the pump control cabinet.

TABLE 1: I/O Configuration – Duplex or Triplex Pump Station*

Item	Description	AI	AO	DI	DO
1	Pump 1 motor current	1			
2	Pump 2 motor current	1			
3	Pump 3 motor current	1			
4	Wet Well Level	1			
5	Discharge Pressure (If called for on drawings) *	1			
6	Pump 1 Run			1	
7	Pump 2 Run			1	
8	Pump 3 Run			1	
9	Pump 1 H/O/A in Auto			1	
10	Pump 2 H/O/A in Auto			1	
11	Pump 3 H/O/A in Auto			1	
12	Pump 1 Seal Failure			1	
13	Pump 2 Seal Failure			1	
14	Pump 3 Seal Failure			1	
15	Pump 1 High Temperature			1	
16	Pump 2 High Temperature			1	
17	Pump 3 High Temperature			1	
18	Reactive Air – Manual Purge			1	
20	Wet Well High High Level – back up alarm			1	
21	DC power failure			1	
22	AC power failure			1	
23	PLC – alarm acknowledge			1	
24	Back Up Controls activated – inhibit main controller			1	
25	Pump 1 call				1
26	Pump 2 call				1
27	Pump 3 call				1
28	Compressor 1 call (Reactive Air System) If System Used				1
29	Compressor 2 call (Reactive Air System) If System Used				1
30	Air Solenoid Valve call (Reactive Air System) If System Used				1
31	Level Transducer Fail				1
32	Common Alarm				1
33	Communications Fail				1
34	Pump 1 VFD speed signal (If called for on dwgs) *		1		
35	Pump 2 VFD speed signal (if called for on dwgs) *		1		
36	Pump 3 VFD speed signal (If called for on dwgs) *		1		
	Sub Total (Not including items marked * -- add these items if required)	4	--	19	9
	Spares	-	--	5	7
	Station Total (Not including items marked *)	4	--	24	16
	Sub Total (Including items marked *)	5	3	19	9
	Spares	3	3	5	7
	Station Total (Including items marked *)	8	6	24	16

* Supply only if called for on the drawings.

** Additional I/O may be required depending on station component design. Supply I/O as required including spares.

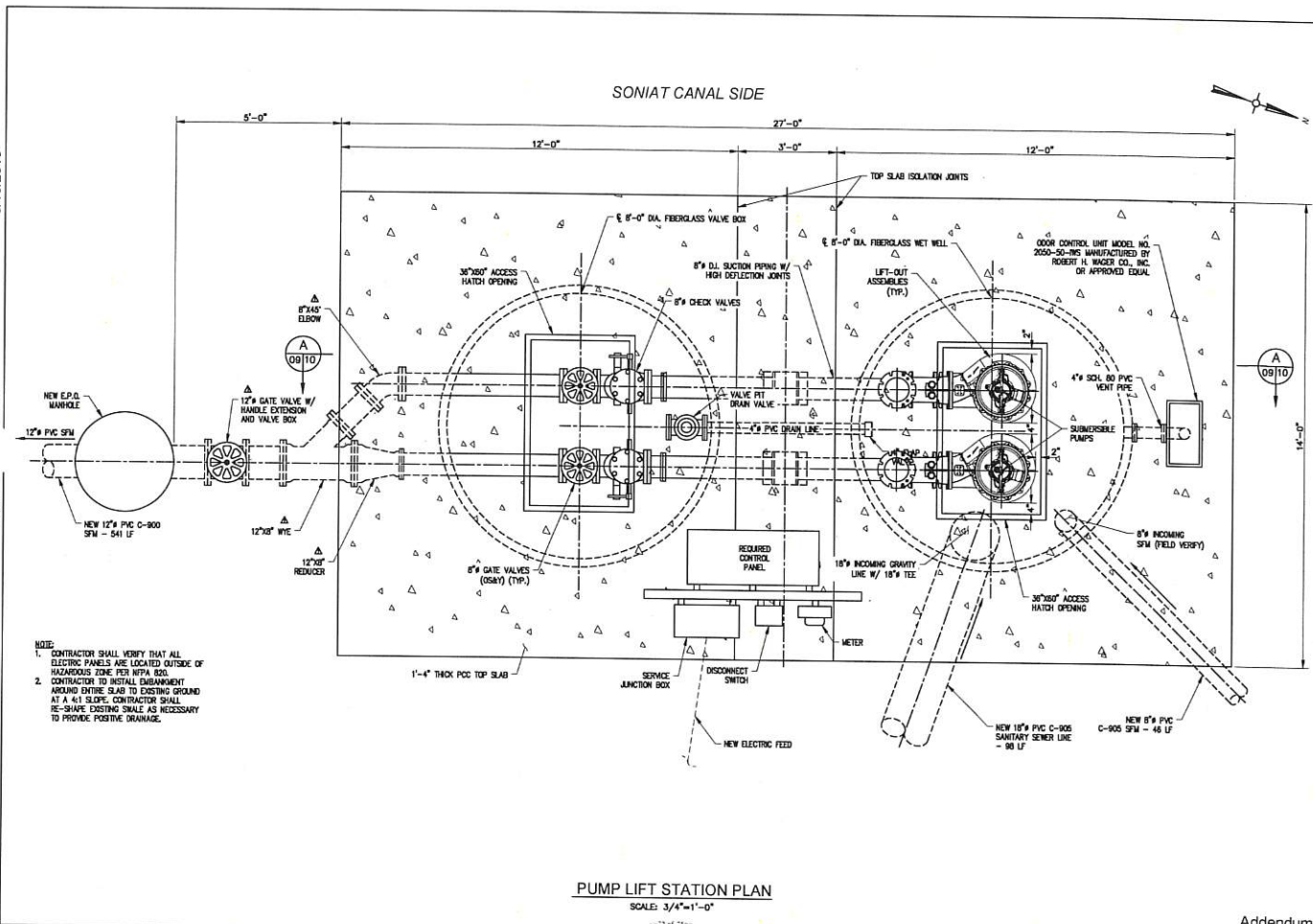
Note:

BUS I/O may be used to obtain the necessary analog and digital values from the VFD's to the PLC/RTU.

3/15/2019

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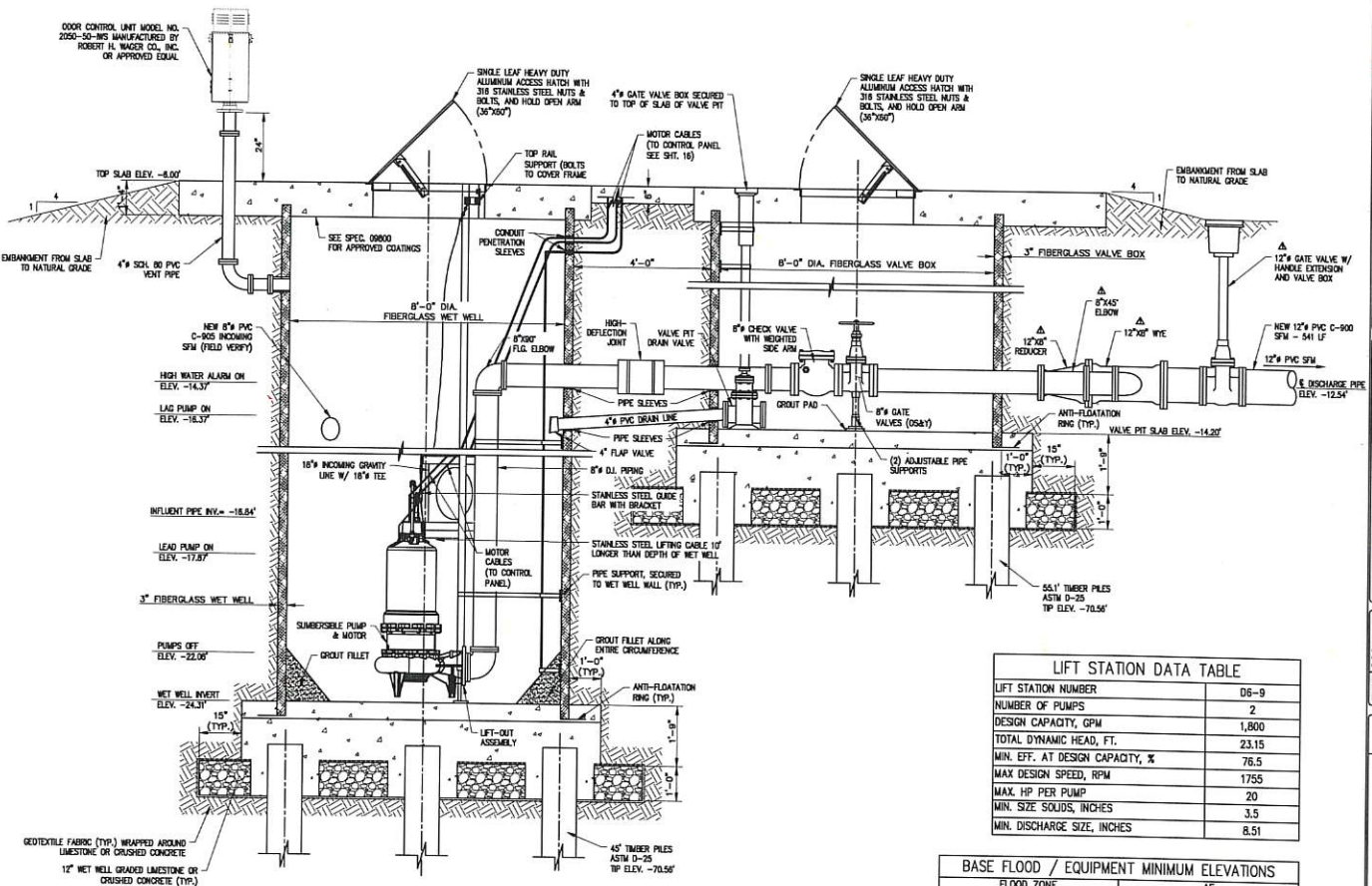
Addendum #1

<p>APTIM The Water Works Team</p>	<p>PROPOSED LIFT STATION PLAN</p>
<p>APTIM 10000 W. 10th Street Suite 100 Denver, CO 80231 Phone: (303) 440-4400 Fax: (303) 440-4401</p>	<p>APTIM 10000 W. 10th Street Suite 100 Denver, CO 80231 Phone: (303) 440-4400 Fax: (303) 440-4401</p>

3/15/2019

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PUMP LIFT STATION ELEVATION
SCALE: 3/4"=1'-0"

LIFT STATION DATA TABLE	
LIFT STATION NUMBER	06-9
NUMBER OF PUMPS	2
DESIGN CAPACITY, GPM	1,800
TOTAL DYNAMIC HEAD, FT.	23.15
MIN. EFF. AT DESIGN CAPACITY, %	76.5
MAX DESIGN SPEED, RPM	1755
MAX. HP PER PUMP	20
MIN. SIZE SOLIDS, INCHES	3.5
MIN. DISCHARGE SIZE, INCHES	8.51

BASE FLOOD / EQUIPMENT MINIMUM ELEVATIONS	
FLOOD ZONE	AE
BASE FLOOD ELEVATION	EL. -4.00
BOTTOM OF CONTROL PANEL	EL. -3.50

Addendum #1

APTIM
The Water Infrastructure Professionals

10000 W. 10th Ave., Suite 100
Denver, CO 80231
Phone: (303) 833-8888 • Fax: (303) 833-8887

INTERVIEW SHEET FOR SEWER LIFT STATION IMPROVEMENTS TO DAVIS LANE & YORK STREET SEWER LIFT STATION 06-9

PROPOSED LIFT STATION ELEVATION

DESIGNED	DATE	BY	CHECKED	DATE

PRE-BID CONFERENCE SIGN-IN SHEET

BID #: 50-00125075 DESCRIPTION: David Drive and York Street Sewer Lift Station Improvements
 LOCATION: Jefferson Parish General Government Bldg. 3rd Floor, Suite 3507
 DATE AND TIME: March 12, 2019 at 10:00 a.m.
 START TIME: 10:08 am STOP TIME: 10:58 am

COMPANY NAME/ADDRESS	COMPANY REPRESENTATIVE	PHONE NO.	EMAIL ADDRESS	SIGN-IN TIME
Jefferson Parish Purchasing 200 Derbigny St., Ste. 4400, Gretna, LA 70053	Daphne Nelson	504 364-2650	dnelson@jeffparish.net	9:48
Gootee Construction 2400 N. Armonlt	John D. Smith	504-831-1909	estimating@gootee.com	9:49
Cycle Construction 6 E 3rd St. Kenner, LA 70062	Paul Mattingly	504-467-1444	estimating@cycleconstruction.com	9:51
Command Const. 68445 James St Mandeville LA 70491	Thomas Behan	504 887 8795	thomas@commandindustries.com	9:52
JO SCIP Yenni Bldg Bm 906	Timothy Smith	504 275-5730	tsmith@deli.net	9:53
BLD Services, LLC 2424 Tyler St Kenner, LA 70062	Brent Albert	504-466-1344	brenta@bldllc.net	9:55
B&K Construction Company, LLC 1905 Highway 59 Mandeville, LA 70473	Brian Dunn	935-626-1866	bdunn@bkconst.com	10:00
FLUID PROCESS PUMPS LLC 405 Commerce Pt Metairie, LA 70123	Jeff Leedy	504-733-1330	JLCFLUIDPROCESS.NET	10:00

PRE-BID CONFERENCE SIGN-IN SHEET

BID #: 50-00125075 DESCRIPTION: David Drive and York Street Sewer Lift Station Improvements
 LOCATION: Jefferson Parish General Government Bldg. 3rd Floor, Suite 3507
 DATE AND TIME: March 12, 2019 at 10:00 a.m.
 START TIME: 10:08 am STOP TIME: 10:58 am

COMPANY NAME/ADDRESS	COMPANY REPRESENTATIVE	PHONE NO.	EMAIL ADDRESS	SIGN-IN TIME
Industrial+Mechanical 757 Central Ave Jefferson, LA 70121	James R. Blakely	504-733-9141	ryan@imcnola.com	10:00 AM
APTIM	Gene Gillon	504-832-4878	gene.gillon@aptim.com	10:05
APTIM	Bigio Casuso	504-832-4282	Bigio.Casuso@APTIM.com	10:05
BLUE IRON	DEANIS Adams	504-235-8457	dadams@blueironllc.com	10:09
BLUE IRON 1415 29th Street, Kenner, LA	MICHAEL CARTER	407-427-7051	MCARTER@BLUEIRONLLC.COM	10:09
Thompson Engineering	Ashley D. Castille	251-272-0377	acastille@thompsonengineering.com	10:05
Centric	Greg F. Ihee	(225) 590-4517	Kivind@centricgc.com	10:15
JP SCIP	Sid Trouard	736-6386	strouard@jeffparish.net	



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000125075 IMPROVEMENTS TO DAVID DRIVE AND YORK STREET
SEWER LIFT STATION D6-9**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
21-Mar-2019 10:45:30 AM

Improvements to David & York Sewer Lift Station D6-9
BID PROPOSAL NO. 50-00125075
ADDENDUM NO. 2
DATE: 3/21/19
PAGE 1 of 11

**CONTRACT DOCUMENTS, SPECIFICATIONS
AND
CONTRACT DRAWINGS
FOR**

Improvements to David & York sewer lift station D6-9

**JEFFERSON PARISH DEPARTMENT OF SEWERAGE
SEWER CAPITAL IMPROVEMENT PROGRAM PROJECT NO. D55101
BID PROPOSAL NO. 50-00125075**

ADDENDUM NO. 2

DATE ISSUED: March 21, 2019

BID DATE: March 26, 2019 at 2:00 PM

**BID LOCATION: Jefferson Parish Purchasing Paul D. Connick, Sr.,
Emergency Operations & Communications Center, 910
3rd Street, Gretna, LA 70053**

This addendum shall be part of the Contract Documents as provided in the Instructions to Bidders.

The following items are issued to add to, modify, and clarify the Contract Documents. These items shall have full force and effect as the Contract Documents, and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by inserting its number on the Bid Form of the Bid Documents. Failure to do so will subject the bidder to rejection.

This Addendum No. 1 consists of **11** pages including the drawing sheets and all attachments.

ADDENDUM ITEMS:

- 1) Specifications: LOUISIANA UNIFORM PUBLIC WORK BID FORM
A new Louisiana Uniform Public Work Bid Form is enclosed with this Addendum No. 2. Failure to use this form and acknowledge Addenda #1 and #2 in space provided will be grounds for bid rejection.
 - Change Item 012 Description from "NEMA PREMIUM EFFICIENCY PUMP" to "SUBMERSIBLE PUMPS – COMPLETE"
 - Change Item 013 Description from "VARIABLE FREQUENCY DRIVES (VFD'S)" to "CONTROL PANEL AND DRIVES – COMPLETE"
 - Change Item 014 Description from "CONTROL PANEL" to "LS APPURTENANCES (VALVES, FITTINGS, PIPING, RAILS, HATCHES)"; Change Unit of Measure from "EACH" to "LUMP SUM"
 - Change Item 036 Description from "BY-PASS DIVERSION PUMPING" to "WET WELL BY-PASSING PLAN"
- 2) The Contactor shall include a coating cost in the Bid Item No. 25 - Convert Wet Well to Manhole. Coating shall be per section 09800. Contractor shall include a wet well cleaning cost applicable to Contractors coating preference in Bid Item No. 25 - Convert Wet Well to Manhole. An integrity inspection of the wet well shall take place by the engineer and contractor once the wet well is safely accessible.
- 3) Technical Specification: SECTION 02950 BY-PASS PUMPING
Replace entire technical specification with new technical specification, attached. The specification includes minimum pumping capacity requirements, when by-pass pumping is provided by the Contractor.
- 4) The wet well by-passing plan is not limited to by-pass pumping. Pumping, as well as permanent and temporary re-routing of force main(s) or gravity influent(s) are acceptable plans. All plans shall be approved by the engineer prior to construction. All cost associated with the contractors by-pass plan shall include all items required for the by-pass plan implementation, maintenance and removal as well complete site restoration of areas that are not already included in the project plans. Items may include but are not limited to labor, materials, manhole(s), pump(s), fittings, hose(s), piping, excavation, shoring, plugs, bedding, pavement, sidewalks, sod, added traffic maintenance, access, obstructions and/or relocations. The contractors shall include all cost for their by-pass plan under Base Bid Item No. 36 - Wet Well By-Passing Plan. The Contractor's by-pass plan shall be complete and at no additional cost to the owner above the Base Bid for Item No. 36 - Wet Well By-Passing Plan.

- 5) Technical Specification: SECTION 05500 MISCELLANEOUS METAL
Change 2.04B from "In Direct Traffic Condition" to "Indirect Traffic Condition"
Contractor shall note the aluminum access doors and frames required shall meet AASHTO H-20 wheel load rating per Section 5500-2.04B specification.

CONTRACTOR QUESTIONS:

- 1) Can you please tell me if there will be any wet well lining work such as wet well or manhole coatings on this project?
See Addendum Item #2
- 2) What is the estimated budget for bid bonding purposes?
Bid bond is equal to five percent (5%) of the total amount bid.
- 3) What is the minimum "worst case scenario" flow the bypass pumps should be operating at?
See Addendum Item #3

LIST OF ATTACHMENTS

- Attachment 1 - LOUISIANA UNIFORM PUBLIC WORK BID FORM (5 Pages)
- Attachment 2 - Technical Specification: SECTION 02950 BY-PASS PUMPING (3 Pages)

END OF ADDENDUM NO. 2

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(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: APTIM, Inc. and dated: August 2018.
(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:

_____ N/A _____ Dollars (\$ _____ N/A _____)

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

_____ N/A _____ Dollars (\$ _____ N/A _____)

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

_____ N/A _____ Dollars (\$ _____ N/A _____)

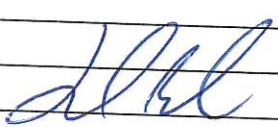
NAME OF BIDDER: _____

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 RS 38:2218.A is attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: Jefferson Parish Purchasing: Paul D. Connick, Sr.
Emergency Operations & Communications Center
910 3rd Street
Gretna, Louisiana 70053
(Owner to provide name and address of owner)

BID FOR: Improvements to David & York
Sewer Lift Station D6-9
SCIP Project No. D55101
Bid Proposal No. 50-00125075
(Owner to provide name of project and other identifying information)

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: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> MOBILIZATION AND DEMOBILIZATION				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
001	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> CONSTRUCTION LAYOUT				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
002	1	LUMP SUM		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> GENERAL EXCAVATION				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
003	145	CUBIC YARD		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> REMOVAL OF STRUCTURES AND OBSTRUCTIONS				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
004	1	LUMP SUM	\$20,000.00	\$20,000.00

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> REMOVAL OF 8" DIAMETER SFM				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
005	40	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 4" DIAMETER PVC FOR ODOR CONTROL UNIT				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
006	7	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 8" DIAMETER PVC C-905 SFM EXTENSION				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
007	46	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 8" DIAMETER DUCTILE IRON SFM				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
008	38	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 12" DIAMETER PVC C-905 SFM				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
009	541	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> 18" DIAMETER PVC C-905 GRAVITY SEWER LINE				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
010	150	LINEAR FOOT		

DESCRIPTION: <input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# <u> </u> DUCTILE IRON SFM FITTINGS & APPURTENANCES				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)
011	2840	POUNDS		

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# SUBMERSIBLE PUMPS - COMPLETE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
012	2	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CONTROL PANEL AND DRIVES - COMPLETE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
013	2	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# LS APPURTENANCES (VALVES, FITTINGS, PIPING, RAILS, HATCHES)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
014	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ELECTRICAL PANELS & WIRING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
015	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# PLUG, FILL & ABANDON EXISTING 8" SFM LINE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
016	187	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8' DIAMETER FIBERGLASS WET WELL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
017	1	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 8' DIAMETER FIBERGLASS VALVE PIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
018	1	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS A REINFORCED CONCRETE – TOP SLAB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
019	17	CUBIC YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS A REINFORCED CONCRETE – WET WELL & VALVE PIT BOTTOM SLABS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
020	18	CUBIC YARD		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CLASS B TIMBER PILE (8" DIA. TIP, 12" DIA. BUTT)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
021	885	LINEAR FOOT		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# MISCELLANEOUS ELECTRICAL WORK & LABOR			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
022	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 48" DIAMETER SEWER MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
023	1	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EMERGENCY PUMP OUT (DUCTILE IRON) & FIBERGLASS MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
024	1	EACH		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# CONVERT EXISTING WET WELL TO MANHOLE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
025	1	LUMP SUM		

DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TIE-IN TO EXISTING 14" SFM			
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REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
026	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# OLD LIFT STATION DEMOLITION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
027	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ODOR CONTROL UNIT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
028	1	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# LANDSCAPING SOD (MATCH EXISTING GRASS TYPE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
029	350	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# PRE & POST SEWER SYSTEM VIDEO			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
030	205	LINEAR FOOT		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 4" TEMPORARY ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
031	100	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 7" THICK PORTLAND CONCRETE CEMENT DRIVE PAVEMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
032	83	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# BARRIER CONCRETE CURB			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
033	80	LINEAR FOOT		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# 6" THICK BASE COURSE FOR ASPHALT DRIVE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
034	100	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# BEDDING MATERIAL (#57 STONE)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
035	50	CUBIC YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# WET WELL BY-PASSING PLAN			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
036	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TEMPORARY RETAINING STRUCTURE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
037	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# TRAFFIC CONTROL (INCLUDE TEMPORARY SIGNS AND BARRICADES)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
038	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# REMOVE & REINSTALL PELICAN CAR WASH SIGNAGE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
039	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# EXPLORATORY EXCAVATION AND VERIFICATION OF EXISTING UTILITIES			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)

040	5	EACH		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ EMBANKMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
041	28	CUBIC YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ 6" THICK CONCRETE SIDEWALK (SLAB)			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
042	5	SQUARE YARD		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ ENTERGY FEE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
043	1	LUMP SUM	\$30,000.00	\$30,000.00
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S GENERAL LIABILITY INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
044	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS AN ADDITIONAL INSURED ON CONTRACTOR'S AUTOMOTIVE INSURANCE			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
045	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ COST TO CONTRACTOR TO LIST JEFFERSON PARISH AS NAMED INSURED ON BUILDER'S RISK INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
046	1	LUMP SUM		
DESCRIPTION:	<input checked="" type="checkbox"/> Base Bid or <input type="checkbox"/> Alt.# ___ COST OF CONTRACTOR'S OWNERS PROTECTION LIABILITY INSURANCE POLICY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (<i>Quantity times Unit Price</i>)
047	1	LUMP SUM		

Wording for "DESCRIPTION" is to be provided by the Owner

All quantities are estimated. The contractor will be paid upon actual quantities as verified by Owner.

SECTION 02950
BY-PASS PUMPING

PART 1 - GENERAL

1.01 SCOPE OF WORK

The work covered by this item consists of; furnishing all labor, supervision, tools, equipment, appliances, and materials to perform all operations in connection with pumping sewage and wet weather flows.

The contractor shall be responsible for all by-pass pumping as required for his chosen sequencing, means and methods.

The purpose of bypass pumping is to prevent sewage overflows and provide reliable sewer service during construction. The Contractor shall maintain sewage flow in the construction area in order to prevent backup and/or overflow into upstream pipe segments and laterals, adjacent ditches, storm sewers, and waterways. The bypass pumping system shall be designed and capable of reliably conveying the sewerage past the work area during normal and wet weather flows. By-Pass pump(s) may be either electric or diesel and all by-pass equipment shall be muffled, sound attenuated or isolated to prevent a noise level exceeding 75 decibels.

The sewer system may contain items that could clog or incapacitate bypass pumps. The contractor shall make no claim for outages, damages, overflows, spills, fuel, vandalism, accidents, clean-up, replacement or repairs for any part of the by-pass system. The bypass system shall be the sole responsibility of the contractor.

1.02 SUBMITTALS

Submit to the Engineer, in accordance with Section 01340, the following information:

1. A By-Pass pumping plan including
 - a. Location of by-pass pump (manhole location)
 - b. Route of by-pass force main
 - c. Tie-in location (to new or existing forcemain)
 - d. Capacity of by-pass pump(s)
 - e. Emergency Contact information

PART 2 – Materials, Equipment