# Item # 13

### State Participation 2125 (SP2125) Program

**Right of Way Division** 

### SP2125 Program

The State Participation 2125 (SP2125) Program was created due to the new Texas Administrative Code Title 43, Part 1, Chapter 21, Subchapter B, Rule §21.25, "State Participation in the Relocation of Certain Publicly-Owned Utility Facilities" which prescribes the procedures to be taken by the utility to apply for state participation in the relocation of utility facilities and by the department and commission in determining whether all or part of the expense of the relocation of the facility will be reimbursed by the state. This program assists political subdivisons by alleviating financial hardships caused by required utility relocations on TxDOT's transportation projects.

### FREQUENTLY ASKED QUESTIONS:

### What are the qualifications to take advantage of the program?

- Payment for all or a part of the relocation of the utility facility would not cause the department to exceed \$10 million for the relocation of utilities authorized under Section 203.092(a-4) in any fiscal year AND
- Utility is a Political Subdivision or owned by a Political Subdivision AND
- A financial condition would prevent the utility from being able to pay the cost in full or in part or, if
  paid at that time, the payment would adversely affect the utility's ability to operate or provide
  essential services to its customers AND
- The utility would not be able to receive a state infrastructure bank loan to finance the cost of the relocation and is otherwise unable to finance that cost. OR
- The utility is owned or operated by a political subdivision, that has a population of less than 5,000
  and that is located in a county that has been included in at least five presidential disaster
  declarations in the six-year period preceding the proposed date of the relocation.

### Can the Political Subdivision receive the money before installation or adjustment?

No, this is a reimbursement program.

### Are you required to apply for a SIB Loan to qualify for this program?

 No, the financial information required for the SP2125 program is the same financial information required for a SIB loan.

### Can the adjustment be eligible to be included in the highway contract?

Yes, we encourage that the adjustment be performed joint bid to minimize upfront costs by the
political subdivision.

### Are elective betterment costs eligible for reimbursement?

No, elective betterments costs are not eligible for reimbursement.

### APPLICATION FORM:

ROW-U-SP2125 can be found in the Utility Accommodations
Toolkit under "Forms and
Publications" → "Utility Forms"

### RESOURCES:

TAC Rule §21.25

### Senate Bill 1512

Texas Transportation Code Section 203.092

### UTILITY ACCOMMODATIONS TOOLKIT:

https://www.txdot.gov/insidetxdot/division/right-of-way/utilityaccommodations.html

> Go to www.txdot.gov **↓**

Select Inside TxDOT

Select Divisions

Select Right of Way

Utility Accommodations Toolkit

OR

Search Online:
"TxDOT Utility
Accommodations Toolkit"



### **Additional Information:**

The SP2125 Program application should be submitted to your local TxDOT district office. The contact information for your local TxDOT district office can be found online at:

www.txdot.gov → Inside TxDOT → Districts

Then use the map or the drop-down list to select your county for specific contact information.



### STANDARD UTILITY AGREEMENT

U Number: 15999 Utility ID: 00001377

District: Austin

Federal Project No.: N/A ROW CSJ: 0323-01-029

Highway Project Letting Date: May 2021

County: Bastrop Highway: SH 95

From: LP 230

To: FM 535

This Agreement by and between the State of Texas, acting by and through the Texas Transportation Commission, ("State"), and City of Smithville - Water & Wastewater , ("Utility"), acting by and through its duly authorized representative, shall be effective on the date of approval and execution by and on behalf of the State.

WHEREAS, the State has deemed it necessary to make certain highway improvements as designated by the State and approved by the Federal Highway Administration within the limits of the highway as indicated above (the "Highway Project");

**WHEREAS**, the proposed Highway Project will necessitate the adjustment, removal, and/or relocation of certain facilities of the **Utility** as indicated in the following statement of work:

This project qualifies for SP 2125 special funding. Water and wastewater facilities relocation will be included in the TxDOT Roadway contract due to conflicts with proposed roadway improvements. Approx. 5,300 LF of wastewater facilities of various sizes will be relocated from station 402+22 to 435+66. Approx. 6,821 LF of water facilities will be relocated from station 402+22 to 437+74. Forced betterment documentation has been provided to justify the increase in pipe size at some locations. Some of the facilities will be abandoned in place.

; and more specifically as shown in the **Utility's** plans, specifications and estimated costs, which are attached hereto as Attachment "A".

**WHEREAS**, the **State** will participate in the costs of the adjustment, removal, and relocation of certain facilities to the extent as may be eligible for State and/or Federal participation.

WHEREAS, the State, upon receipt of evidence it deems sufficient, acknowledges the Utility's interest in certain lands and facilities that entitle it to reimbursement for the adjustment, removal, and relocation of certain of its facilities located upon the lands as indicated in the statement of work above.

### NOW, THEREFORE, BE IT AGREED:

The **State** will pay to the **Utility** the costs incurred in adjustment, removal, and relocation of the **Utility's** facilities up to the amount said costs may be eligible for **State** participation.

All conduct under this agreement, including but not limited to the adjustment, removal, and relocation of the facility, the development and reimbursement of costs, any environmental requirements, and retention of records will be in accordance with all applicable federal and state laws, rules and regulations, including, without limitation, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act, 42 U.S.C. §§ 4601, et seq., the National Environmental Policy Act, 42 U.S.C. §§ 4321, et seq., the Buy America provisions of 23 U.S.C. § 313 and 23 CFR 635.410, as amended, Texas Transportation Code § 223.045, the Utility Relocations, Adjustments, and Reimbursements provisions of 23 CFR 645, Subpart A, and the Utility Accommodation provisions of 23 CFR 645, Subpart B.

Initial	Date	Initial	Date
	xDOT	Util	itv

The **Utility** shall supply, upon request by the **State**, proof of compliance with the aforementioned laws, rules, regulations, and guidelines prior to the commencement of the adjustment, removal, and relocation of the facility.

The Utility shall not commence any physical work, including without limitation site preparation, on the State's right of way or future right of way, until TxDOT provides the Utility with written authorization to proceed with the physical work upon TxDOT's completion and clearance of its environmental review of the Highway Project. Any such work by the Utility prior to TxDOT's written authorization to proceed will not be eligible for reimbursement and the Utility is responsible for entering any property within the proposed limits of the Highway Project that has not yet been acquired by TxDOT. This written authorization to proceed with the physical work is in addition to the authorization to commence work outlined below. Notwithstanding the foregoing, the provisions of this paragraph are required only when TxDOT has not obtained completion and clearance of its environmental review of the Highway Project prior to the execution of this Agreement by the State and the Utility.

The **Utility** shall comply with the Buy America provisions of 23 U.S.C. § 313, 23 CFR 635.410, as amended, and the Steel and Iron Preference provisions of Texas Transportation Code § 223.045 and, when products that are composed predominately of steel and/or iron are incorporated into the permanent installation of the utility facility, use domestically manufactured products. TxDOT Form 1818 (Material Statement), along with all required attachments, must be submitted, prior to the commencement of the adjustment, removal, and relocation of the facility, as evidence of compliance with the aforementioned provisions. Failure to submit the required documentation or to comply with the Buy America, and Steel and Iron Preference requirements shall result in: (1) the **Utility** becoming ineligible to receive any contract or subcontract made with funds authorized under the Intermodal Surface Transportation Efficiency Act of 1991; (2) the **State** withholding reimbursement for the costs incurred by the **Utility** in the adjustment, removal, and relocation of the **Utility's** facilities; and (3) removal and replacement of the non-compliant products.

The **Utility** agrees to develop relocation or adjustment costs by accumulating actual direct and related indirect costs in accordance with a work order accounting procedure prescribed by the **State**, or may, with the **State**'s approval, accumulate actual direct and related indirect costs in accordance with an established accounting procedure developed by the **Utility**. Bills for work hereunder are to be submitted to the **State** not later than one (1) year after completion of the work. Failure to submit the request for final payment, in addition to all supporting documentation, within one (1) year after completion of the work may result in forfeiture of payment for said work.

When requested, the **State** will make intermediate payments at not less than monthly intervals to the **Utility** when properly billed. Such payments will not exceed 90 percent (90%) of the eligible cost as shown in each such billing. Intermediate payments shall not be construed as final payment for any items included in the intermediate payment.

The **State** will, upon satisfactory completion of the adjustment, removal, and/or relocation and upon receipt of final billing prepared in an approved form and manner and accounting for any intermediate payments, make payment in the amount of 90 percent (90%) of the eligible costs as shown in the final billing prior to audit and after such audit shall make an additional final payment totaling the reimbursement amount found eligible for **State** reimbursement.

Alternatively, the **State** agrees to pay the **Utility** an agreed lump sum of \$ N/A as supported by the attached estimated costs. The **State** will, upon satisfactory completion of the adjustments, removals, and relocations and upon receipt of a final billing, make payment to the **Utility** in the agreed amount.

Upon execution of this agreement by both parties hereto, the **State** will, by written notice, authorize the **Utility** to perform such work diligently and to conclude said adjustment, removal, and relocation by the stated completion date which is attached hereto in Attachment "C". The completion date shall be extended for delays caused by events outside the **Utility's** control, including an event of Force Majeure, which shall include a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood or other act of God, sabotage, or other events, interference by the **State** or any other party with the **Utility's** ability to proceed with the work, or any other event in which the **Utility** has exercised all due care in the prevention thereof so that the causes of other events are beyond the control and without the fault or negligence of the **Utility**.

Initial	Date	Initial	Date
	TxDOT	Util	ity

This agreement in its entirety consists of the following elements:

Standard Utility Agreement - ROW-U-35;

- · Plans, Specifications, and Estimated Costs (Attachment "A");
- · Accounting Method (Attachment "B");
- Schedule of Work (Attachment "C");
- Statement Covering Contract Work ROW-U-48 (Attachment "D");
- Utility Joint Use Agreement ROW-U-JUA and/or Utility Installation Request Form 1082 (Attachment "E");
- Eligibility Ratio (Attachment "F");
- · Betterment Calculation and Estimate (Attachment "G"); and
- Proof of Property Interest ROW-U-Affidavit (Attachment "H").

All attachments are included herein as if fully set forth. In the event it is determined that a substantial change from the statement of work contained in this agreement is required, reimbursement therefore shall be limited to costs covered by a modification or amendment of this agreement or a written change or extra work order approved by the **State** and the **Utility**.

This agreement is subject to cancellation by the **State** at any time up to the date that work under this agreement has been authorized, and such cancellation will not create any liability on the part of the **State**. However, the **State** will review and reimburse the **Utility** for eligible costs incurred by the **Utility** in preparation of this Agreement.

The State Auditor may conduct an audit or investigation of any entity receiving funds from the **State** directly under this contract or indirectly through a subcontract under this contract. Acceptance of funds directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the State Auditor, under the direction of the Legislative Audit Committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

The **Utility** by execution of this agreement does not waive any of the rights that the **Utility** may have within the limits of the law.

It is expressly understood that the **Utility** conducts the adjustment, removal, and relocation at its own risk, and that the **State** makes no warranties or representations regarding the existence or location of utilities currently within its right of way.

Initial	Date	Initial	Date
	(DOT	Uti	lity

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.

arty rep	presented.	
UTILIT	Υ	EXECUTION RECOMMENDED:
Utility:	City of Smithville - Water & Wastewater  Name of Utility	Director of TP&D (or designee), Austin District
Ву:	Authorized Signature	THE STATE OF TEXAS
Title:	Robert Tamble Print or Type Name  City Manager	Executed and approved for the Texas Transportation Commission for the purpose and effect of activating and/or carrying out the orders, established policies or work programs heretofore approved and authorized by the Texas Transportation Commission.
Date:		By:  District Engineer (or designee)
		Date:
		8

Initial	Date	Initial	Date
	TXDOT	Utili	ty

Initial

# Attachment "A" Plans, Specifications, and Estimated Costs

All material items within cost estimate that must meet Buy America or Steel and Iron Preference Provision requirements must be indicated with an asterisk (*).
Currently, we do not have Buy America required materials planned for this project. In the event that Buy America compliant materials are used during construction on this project, compliance documentation will be provided.
There are non-domestic iron and steel materials in this project that fall under the De Minimus equation. Calculation showing the total cost does not exceed one-tenth of one percent (0.1 %) of the individual utility agreement amount or \$2,500.00, whichever is greater is required.
We understand the Buy America Compliance Requirements and will supply the required documentation to TxDOT indicating compliance with this provision. The following documents will be supplied prior to installation of the materials:
Form 1818 - Material Statement     Material Test Reports or Certifications

Initial

Date

Utility

### Utility Adjustment for TxDOT Project

TXDOT STANDARD SUA ESTIMATE

City of Smithville

SH 95

Utility ID#: U-0000137

U15999

CSJ: 0323-01-029		UNUMBER:	U15999	into unit	and unit price
he cost estimate items must be sufficiently detailed to provide TxDOT with a reason or each (See Utility Manual, Chapter 6 Section 2). Applies to All "EA" items	able basis for a	nalysis. Items sho	ıld include appropr	iate units	and unit price
or each (See Utility Manual, Chapter 6 Section 2). Applies to All EXPRECTS aterials & Labor TO BE REIMBURSED IN TXDOT CONTRACT - JOIN	IT BID	A CARLES	STEEL THE ST		
Line Item / Item Description	Unit	Quantity	\$/Unit		Total
WASTEWATER IMPROVEMENTS	<b>经验证据</b>	idea (disculs)			
4" PVC DR-21 ASTM D2241 CL 200 PSI WITH 8" STEEL CASING BY OPEN CUT, ALL DEPTHS, UNDER PAVEMENT -					
* FORCE MAIN	LF	55	\$140.00	\$	7,700.00
4" PVC DR-21 ASTM D2241 CL 200 PSI ALL DEPTHS, ALL		153	\$48.00	\$	7,344.00
* TRENCH TYPES-FORCE MAIN 6" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT UNDER	LF	100	φ46.00	Ψ	7,011.00
PAVEMENT	LF	15	\$54.00	\$	810.00
6" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT NOT	LF	32	\$66.00	\$	2,112.00
UNDER PAVEMENT 6" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT NOT	LF	32	ψ00.00	Ψ	2,112.00
LINDER PAVEMENT	LF	21	\$78.00	\$	1,638.00
6" PVC DR-26 ASTM D2241 CL 160 PSI 14'-16' CUT NOT		45	\$84.00	\$	1,260.00
UNDER PAVEMENT 6" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER	LF	15	φ04.00	Ψ	1,200.00
PAVEMENT	LF	14	\$78.00	\$	1,092.00
6" PVC DR-26 ASTM D2241 CL 160 PSI 10'-12' CUT UNDER		40	\$84.00	\$	3,360.00
PAVEMENT 6" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT UNDER	LF	40	φο4.00	Ψ	3,300.00
PAVEMENT	LF	46	\$90.00	\$	4,140.00
* 6" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT UNDER					
PAVEMENT WITH 12" STEEL CASING BY OPEN CUT	LF	18	\$155.00	\$	2,790.00
* 6" PVC DR-26 ASTM D2241 CL 160 PSI 14'-16' CUT UNDER		10	,		
PAVEMENT WITH 12" STEEL CASING BY OPEN CUT		40	¢475.00	\$	3,150.00
THE STATE OF A STATE O	LF	18	\$175.00	φ	3,130.00
* 6" PVC DR-26 ASTM D2241 CL 160 PSI WITH 12" STEEL CASING BY BORE	LF	78	\$360.00	\$	28,080.00
8" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT UNDER		200	#CO 00	,	17,880.00
PAVEMENT 8" PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NOT UNDER	LF	298	\$60.00	\$	. 17,000.00
PAVEMENT	LF	429	\$66.00	\$	28,314.00
8" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT NOT		007	679.00	\$	18,486.00
UNDER PAVEMENT	LF	237	\$78.00	Ψ	10,400.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT NOT UNDER PAVEMENT	LF	26	\$84.00	\$	2,184.00
8" PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NOT UNDER					
PAVEMENT WITH 12" PVC CASING BY OPEN CUT	LF	273	\$138.00	\$	37,674.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT UNDER	LI	210	7.00.00	1	
PAVEMENT WITH 12" PVC CASING BY OPEN CUT			0400.00	•	47 500 0
	LF	360	\$132.00	\$	47,520.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT UNDER PAVEMENT	LF	169	\$72.00	\$	12,168.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT UNDER			0400.00	_	20,200,0
PAVEMENT	LF	199	\$102.00	\$	20,298.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT UNDER PAVEMENT WITH 12" PVC CASING BY OPEN CUT					
	LF	40	\$144.00	\$	5,760.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT UNDER					
PAVEMENT WITH 12" PVC CASING BY OPEN CUT	LF	45	\$150.00	\$	6,750.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT UNDER					
PAVEMENT WITH 14" STEEL CASING BY OPEN CUT	1	18	\$192.00	\$	3,456.0
8" PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT UNDER	LF_	10	φ192.00	Ψ	0,400.0
PAVEMENT WITH 14" STEEL CASING BY OPEN CUTE					ar sas -
*	LF	131	\$198.00	\$	25,938.0

	Line Item / Item Description	Unit	Quantity	\$/Unit		Total
15555	8" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER					
	PAVEMENT WITH 14" STEEL CASING BY OPEN CUT	Vision	Traffer 1			5.050.00
*		LF	25	\$210.00	\$	5,250.00
	8" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT UNDER			2 -41 /		
*	PAVEMENT WITH 14" STEEL CASING BY OPEN CUT	LF	30	\$222.00	\$	6,660.00
	8" PVC DR-26 ASTM D2241 CL 160 PSI WITH 14" STEEL	El .	00	QLLL.00	Ψ	
*	CASING BY BORE	LF	134	\$420.00	\$	56,280.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT NOT			7 10 1		
	UNDER PAVEMENT	LF	122	\$90.00	\$	10,980.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 10'-12' CUT NOT			0400.00	•	E7 E20 00
	UNDER PAVEMENT	LF	564	\$102.00	\$	57,528.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT NOT	LF	101	\$114.00	\$	11,514.00
	UNDER PAVEMENT  12" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER	10	101	ψ111100	*	
	PAVEMENT	LF	144	\$102.00	\$	14,688.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER			Sufficiency St. 198		
	PAVEMENT WITH 20" STEEL CASING BY OPEN CUT		and a first			0.450.00
*		LF	25	\$246.00	\$	6,150.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI WITH 20" STEEL	LF	348	\$540.00	\$	187,920.00
*	CASING BY BORE 15" PVC SDR-26 ASTM D3034 12'-14' CUT UNDER	LF	340	ψ540.00	Ψ	107,020.00
	PAVEMENT	LF	52	\$144.00	\$	7,488.00
	15" PVC SDR-26 ASTM D3034 14'-16' CUT UNDER					
	PAVEMENT	LF	212	\$156.00	\$	33,072.00
	20" PVC C900 DR 25 CL 165 PSI 8'-10' CUT NOT UNDER	200220				5.040.00
	PAVEMENT	LF	28	\$180.00	\$	5,040.00
	20" PVC C900 DR 25 CL 165 PSI 10'-12' CUT NOT UNDER	LF	24	\$192.00	\$	4,608.00
	PAVEMENT 20" PVC C900 DR 25 CL 165 PSI 12'-14' CUT NOT UNDER	LF	24	ψ132.00	Ψ	4,000.00
	PAVEMENT	LF	50	\$204.00	\$	10,200.00
	20" PVC C900 DR 25 CL 165 PSI 14'-16' CUT NOT UNDER					
	PAVEMENT	LF	56	\$216.00	\$	12,096.00
	20" PVC C900 DR 25 CL 165 PSI 16'-18' CUT NOT UNDER	10.1		*****		20 200 00
	PAVEMENT	LF	174	\$220.00	\$	38,280.00
	20" PVC C900 DR 25 CL 165 PSI 14'-16' CUT UNDER	15	10	\$475.00	\$	8,550.00
*	PAVEMENT WITH 30" STEEL CASING BY OPEN CUT	LF	18	φ475.00	Ψ	0,000.00
*	20" PVC C900 DR 25 CL 165 PSI 16'-18' CUT UNDER PAVEMENT WITH 30" STEEL CASING BY OPEN CUT	LF	13	\$480.00	\$	6,240.00
	20" PVC C900 DR 25 CL 165 PSI WITH 30" STEEL CASING BY			•	Ť.	
*	BORE	LF	37	\$660.00	\$	24,420.00
	4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL	1				
	TRENCH TYPES - LONG SERVICE (including DI fittings)		40	#2 COO OO		36,000.00
*	WALLE TO A STATE OF A COLUMN POLICY OF A COLUMN PERSON AND A COLUM	EA	10	\$3,600.00	\$	36,000.00
	4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL TRENCH TYPES - LONG SERVICE WITH DEEP SERVICE			3 645 33 44		
*	CONNECTION (including DI fittings)	EA	2	\$4,800.00	\$	9,600.00
2	4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL					
	TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE	2/2	- 2		١.	
*	CONNECTION (including DI fittings)	EA	9	\$3,360.00	\$	30,240.00
	4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL					
*	TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE	EA	1	\$4,560.00	\$	4,560.00
1	CONNECTION (including DI fittings)  4" PVC DR-26 ASTM D2241 CL 160 PSI ALL DEPTHS, UNDER	L/\	-17.	<b>V</b> 1,000.00	+	
	PAVEMENT WITH 8" STEEL CASING BY OPEN CUT					
*		LF	216	\$135.00	\$	29,160.00
	4" PVC DR-26 ASTM D2241 CL 160 PSI WITH 8" STEEL		0.50	0000.00		440 070 00
*	CASING BY BORE	LF	352	\$336.00	\$	118,272.00
	4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR				1	
*	COATING 0-6' DEPTH NOT UNDER PAVEMENT	EA	14	\$6,000.00	\$	84,000.00
	4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR				1	
10000	COATING 0-6' DEPTH NOT UNDER PAVEMENT WITH	200.000	THE STATE OF		10.7	
*	WATER TIGHT RIM	EA	3	\$6,600.00	\$	19,800.00
100	ADDITIONAL DEPTH OF 4' DIA PRE-CAST CONCRETE					
	MANHOLES WITH INTERIOR COATING NOT UNDER	LF	62	\$600.00	\$	37,200.00
*	PAVEMENT (VERTICAL FEET)	L	UZ	μ ψουσ.συ	Ψ	51,200.00

atarat I	999_SM95_Cost Estimate_Attachment A02.01.2	Unit	Quantity	\$/Unit	159	Total
102	Line Item / Item Description 4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR	Oille	Quantity	φισιπε		
*	COATING 0-6' DEPTH UNDER PAVEMENT	EA	6	\$6,600.00	\$	39,600.00
~	COATING 0-6 DEPTH UNDER PAVEIVIENT	LA	-	φο,οσσ.σσ	Ψ	
	ADDITIONAL DEPTH OF 4' DIA PRE-CAST CONCRETE					
*	MANHOLES WITH INTERIOR COATING UNDER PAVEMENT	LF	24.9	\$720.00	\$	17,928.00
	(VERTICAL FEET) 5' DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR		2.110			
	COATING 0-6' DEPTH NOT UNDER PAVEMENT					
*	COATING 0-6 DEPTH NOT ONDER PAVEMENT	EA	3	\$9,000.00	\$	27,000.00
	ADDITIONAL DEPTH OF 5' DIA PRE-CAST CONCRETE			, ,		
	MANHOLES WITH INTERIOR COATING NOT UNDER					
*	PAVEMENT (VERTICAL FEET)	LF	20.5	\$780.00	\$	15,990.00
	5' DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR					
*	COATING 0-6' DEPTH UNDER PAVEMENT	EA	3	\$9,600.00	\$	28,800.00
	ADDITIONAL DEPTH OF 5' DIA PRE-CAST CONCRETE					
	MANHOLES WITH INTERIOR COATING UNDER PAVEMENT			as the state of		
*	(VERTICAL FEET)	EA	21.5	\$900.00	\$	19,350.00
*	4' DIA. FINAL MANHOLE RIM ADJUSTMENTS	EA	8	\$2,500.00	\$	20,000.00
*	5' DIA. FINAL MANHOLE RIM ADJUSTMENTS	EA	2	\$3,000.00	\$	6,000.00
*	TIE IN TO EXISTING LIFT STATION	EA	1	\$24,000.00	\$	24,000.00
*	TIE IN EXISTING 3" FORCE MAIN	EA	1	\$2,400.00	\$	2,400.00
*	TIE IN EXISTING 4" FORCE MAIN	EA	2	\$2,400.00	\$	4,800.00
*	TIE IN EXISTING 4 FORCE MAIN TIE IN EXISTING 6" GRAVITY WASTEWATER	EA	1	\$2,400.00	\$	2,400.00
	TIE IN EXISTING 8" GRAVITY WASTEWATER	EA	2	\$3,000.00	\$	6,000.00
	THE IN EXISTING 8" GRAVITY WASTEWATER	EA	1	\$3,600.00	\$	3,600.00
*	TIE IN EXISTING 10" GRAVITY WASTEWATER	LF	4506	\$6.00	\$	27,036.00
	TRENCH PROTECTION			\$36.00	\$	39,852.00
	ASPHALT PAVEMENT REPAIR	LF	1107			
	ASPHALT PAVEMENT REPAIR (BORE PITS)	LF	231	\$120.00	\$	27,720.00 2,760.00
	GRAVEL PAVEMENT REPAIR (LINES)	LF	230	\$12.00	\$	2,760.00
	REMOVALS - EXISTING WASTEWATER LINE - CUT, PLUG,					
	AND ABANDON IN PLACE WITH NO PRESSURE GROUTING			00.00	,	0.252.00
		LF	928	\$9.00	\$	8,352.00
	REMOVALS - EXISTING 6" AND UNDER WASTEWATER LINE -					
	CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE			*****		0.040.00
		LF	644	\$14.00	\$	9,016.00
	REMOVALS - EXISTING 8" WASTEWATER LINE - CUT,			***		47.744.00
ŝ	PRESSURE GROUT, PLUG AND ABANDON IN PLACE	LF	2984	\$16.00	\$	47,744.00
B	REMOVALS - EXISTING 10" WASTEWATER LINE - CUT,					04.004.00
8	PRESSURE GROUT, PLUG AND ABANDON IN PLACE	LF	1738	\$18.00	\$	31,284.00
50	REMOVALS - REMOVE EXISTING MANHOLES FULL DEPTH		1		١.	00 000 00
0		EA ·	15	\$2,400.00	\$	36,000.00
8	REMOVALS - REMOVE EXISTING CLEANOUTS FULL DEPTH					
8	Bit Control of the Co	EA	6	\$1,200.00	\$	7,200.00
8	POTHOLING AT WASTEWATER SERVICE TIE IN LOCATIONS				١.	== === ==
8		EA	22	\$2,400.00	\$	52,800.00
8	TEMPORARY 10" WASTEWATER TIE-IN TO PROPSOED 20"	(SC 1000)	203			0.000.00
	AT WWTP	EA	1	\$6,000.00	\$	6,000.00
	TEMPORARY 4" WASTEWATER TIE-IN TO PROPOSED 8"					
	WASTEWATER LINE	EA	1	\$2,000.00	\$	2,000.00
	77701277712			SUBTOTAL	\$	1,681,332.00
18	WATER IMPROVEMENTS				100	
	6" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT			2000 D 2000 T 20		Commence and the commen
*	OUGUSTIC TO THE CONTROL OF THE CONTR	LF	690	\$54.00	\$	37,260.00
	6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT					
*	UNDER PAVEMENT	LF	100	\$66.00	\$	6,600.00
*	6" C900 DR-18 PVC WATER LINE UNDER PAVEMENT	LF	185	\$66.00	\$	12,210.00
	6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE UNDER			<u>(6)</u>		
	PAVEMENT WITH 10" STEEL CASING BY OPEN CUT		ASSESSED FOR	N .		
*	TAVENILIAI VAITI TO OTELE OF OUT OF OTELE	LF	86	\$160.00	\$	13,760.00
	6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 10"					
*	STEEL CASING BY BORE	LF	192	\$360.00	\$	69,120.00
*	8" C900 DR-18 PVC WATER LINE NOT UNDER PVMT	LF	47	\$66.00	\$	3,102.00
	8" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT	<del></del>	1		T	
*		LF	39	\$84.00	\$	3,276.00
9	UNDER PAVEMENT 8" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE UNDER	H-1		12	+	
8	8" CERTA-LON RAID COM DR-10 FVC WATER LINE ONDER					
*	PAVEMENT WITH 14" STEEL CASING BY OPEN CUT	LF	16	\$200.00	\$	3,200.00
*		L	10	Ψ200.00		3,200.00

	Line Item / Item Description	Unit	Quantity	\$/Unit	Vel STA	Total
8	8" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 14"					
	STEEL CASING BY BORE	LF	63	\$420.00	\$	26,460.00
	10" C900 DR-18 PVC WATER LINE UNDER PAVEMENT	LF	92	\$96.00	\$	8,832.00
F	12" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT					
+	Proposed and the second	LF	3228	\$90.00	\$	290,520.00
F	12" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT			11 12 12 12		00 550 00
۱ ا	UNDER PAVEMENT	LF	559	\$162.00	\$	90,558.00
Γ	12" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT			1		
*		LF	391	\$102.00	\$	39,882.00
	12" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH		7142 4	A CONTRACTOR		
	18" STEEL CASING BY OPEN CUT, ALL TRENCH TYPES					
k		LF	669	\$312.00	\$	208,728.00
	12" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH		The second			
+	20" STEEL CASING BY BORE	LF	285	\$540.00	\$	153,900.00
٠ [	6" GATE VALVE	EA	11	\$2,400.00	\$	26,400.00
۱ ۱	8" GATE VALVE	EA	4	\$3,000.00	\$	12,000.00
۱ ا	10" GATE VALVE	EA	1	\$3,600.00	\$	3,600.00
	12" GATE VALVE	EA	27	\$4,200.00	\$	113,400.00
	FINAL VALVE ADJUSTMENT - 2" GATE VALVES	EA	1	\$250.00	\$	250.00
, -	FINAL VALVE ADJUSTMENT - 6" GATE VALVES	EA	14	\$500.00	\$	7,000.00
, }	FINAL VALVE ADJUSTMENT - 10" GATE VALVES	EA	0.1	\$1,000.00	\$	1,000.00
	FINAL VALVE ADJUSTMENT - 10 GATE VALVES	EA	22	\$1,500.00	\$	33,000.00
	20" C900 DR-18 (BLUE) PVC CASING AT MANHOLES BY	LA		Ţ.,500.00	+	,
		LF	162	\$180.00	\$	29,160.00
. }	OPEN CUT FIRE HYDRANT ASSEMBLY	EA	10	\$7,200.00	\$	72,000.00
	FIRE HYDRANT ACCEMBLY (LONG LEAD)	EA	4	\$8,200.00	\$	32,800.00
	FIRE HYDRANT ASSEMBLY (LONG LEAD)		24	\$300.00	\$	7,200.00
- 1	TRACER WIRE RISERS	EA			\$	18,000.00
*	2" COMBINATION AIR RELEASE/VACUUM VALVE	EA	3	\$6,000.00	+-	10,000.00
	3/4" LONG SERVICE WITH CONNECTION TO EX 3/4" METER,			#2 000 00	_	6 000 0
ļ	ALL TRENCH TYPES	EA	2	\$3,000.00	\$	6,000.00
- 1	3/4" SHORT SERVICE WITH CONNECTION TO EX 3/4"			04 000 00	1	F 400 0
	METER, ALL TRENCH TYPES	EA	3	\$1,800.00	\$	5,400.0
- 1	1" LONG SERVICE WITH CONNECTION TO EX 3/4" METER,			00 400 00		40 440 0
	ALL TRENCH TYPES	EA	9	\$2,160.00	\$	19,440.00
-	1" SHORT SERVICE WITH CONNECTION TO EX 3/4" METER,			00.400.00		40,000,0
	ALL TRENCH TYPES	EA	6	\$2,160.00	\$	12,960.00
	1" LONG SERVICE WITH NEW 3/4" METER, ALL TRENCH			00,000,00	_	7 200 0
	TYPES	EA	2	\$3,600.00	\$	7,200.00
	1" SHORT SERVICE WITH NEW 3/4" METER, ALL TRENCH			00 000 00		44.400.0
	TYPES	EA	4	\$3,600.00	\$	14,400.0
	1" LONG SERVICE WITH CONNECTION TO EXISTING 3/4"			00 400 00		0.400.0
	SERVICE LINE, ALL TRENCH TYPES	EA	1	\$2,160.00	\$	2,160.0
	1" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH 3" STEEL			*****		40,000,0
*	CASING BY OPEN CUT	LF	190	\$100.00	\$	19,000.0
	1" HDPE SDR-9 TUBING WITH 3" STEEL CASING BY BORE					04.000.0
*		LF	408	\$150.00	\$	61,200.0
	2" LONG SERVICE WITH CONNECTION TO EX 1.5" METER,					
	ALL TRENCH TYPES	EA	1	\$3,960.00	\$	3,960.0
	2" LONG SERVICE WITH TWO NEW 3/4" METERS, ALL				١.	
	TRENCH TYPES	EA	1	\$5,400.00	\$	5,400.0
	2" LONG SERVICE WITH CONNECTION TO EXISTING 2"					v sesses
	SERVICE LINE, ALL TRENCH TYPES	EA	1	\$4,800.00	\$	4,800.0
	2" SHORT SERVICE WITH CONNECTION TO EX 2" METER,			222 12 11 11 12 12 12 12 12 12 12 12 12		
	ALL TRENCH TYPES	EA	1	\$4,800.00	\$	4,800.0
	2" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH 4" STEEL					
*	CASING BY OPEN CUT	LF	46	\$140.00	\$	6,440.0
	2" HDPE SDR-9 TUBING WITH 4" STEEL CASING BY BORE					
*		LF	112	\$180.00	\$	20,160.0
	2" GALVANIZED STEEL VENT PIPE FOR RAILROAD BORE		31	2024 25 200-000 00000	1937	
*		EA	4	\$2,400.00	\$	9,600.0
*	TIE IN TO EXISTING 2" WATER LINE	EA	2	\$2,400.00	\$	4,800.0
		EA	8	\$3,000.00	\$	24,000.0
*	TIE IN TO EXISTING 6" WATER LINE				1	40.000.0
*	TIE IN TO EXISTING 6" WATER LINE TIE IN TO EXISTING 8" WATER LINE	EA	3	\$3,600.00	\$	10,800.0
* * *	TIE IN TO EXISTING 8" WATER LINE	EA	3 2		\$	
*				\$3,600.00 \$4,200.00 \$3.00		10,800.0 8,400.0 19,014.0

### **Attachment A Cost Estimate**

en one	Line Item / Item Description	Unit	Quantity	\$/Unit	John I	Total
239	ASPHALT PAVEMENT REPAIR (LINES)	LF	1198	\$36.00	\$	43,128.00
ĝ.	ASPHALT PAVEMENT REPAIR (BORE PITS)	LF	243	\$120.00	\$	29,160.00
*	CONCRETE PAVEMENT REPAIR (LINES)	LF	132	\$120.00	\$	15,840.00
	REMOVALS - EXISTING WATER VALVES	EA	11	\$600.00	\$	6,600.00
	REMOVALS - EXISTING WATER VALUES REMOVALS - EXISTING METERS AND METER BOXES	EA	8	\$900.00	\$	7,200.00
	REMOVALS - EXISTING METERO AND METERO BOXES REMOVALS - EXISTING FIRE HYDRANTS	EA	7	\$1,800.00	\$	12,600.00
	REMOVALS - EXISTING VINCETTIBIO AND					
	ABANDON IN PLACE WITH NO PRESSURE GROUTING	LF	1525	\$8.00	\$	12,200.00
	REMOVALS - EXISTING 6" AND UNDER WATER LINE - CUT,					
	PRESSURE GROUT, PLUG AND ABANDON IN PLACE					
	PRESSURE GROOT, I EGG / IND / IND GIT II. T = 1-1	LF	7317	\$14.00	\$	102,438.00
	REMOVALS - EXISTING 8" WATER LINE - CUT, PRESSURE					
	GROUT PLUG AND ARANDON IN PLACE	LF	30	\$16.00	\$	480.00
	TEMPORARY - 6" CERTA-LOK RJIB C900 DR-18 PVC WATER					05 070 00
	LINE	LF	545	\$66.00	\$	35,970.00
	TEMPORARY - UNCASED BORES INCLUDING 6" CERTA-LOK					00 700 00
*	RJIB C900 DR-18 PVC WATER LINE	LF	150	\$138.00	\$	20,700.00
*	TEMPORARY - 6" GATE VALVE	EA	2	\$2,400.00	\$	4,800.00
	TEMPORARY - FIRE HYDRANT ASSEMBLY RELOCATIONS			47.000.00	_	24 600 00
*		EA	3	\$7,200.00	\$	21,600.00
8	TEMPORARY - 6" CERTA-LOK RJIB C900 DR-18 PVC WATER				_	40,000,00
*	I INF WITH 10" STEEL CASING BY BORE	LF	45	\$360.00	\$	16,200.00 9.000.00
*	TEMPORARY - TIE IN TO EXISTING 6" WATER LINE	EA	3	\$3,000.00	\$	9,000.00
	TEMPORARY - 3/4" SERVICE WITH CONNECTION TO EX 3/4"		_	<b>***</b> *********************************	,	21,000.00
*	METER ALL TRENCH TYPES	EA	7	\$3,000.00	\$	21,000.00
8	TEMPORARY - 1" SERVICE WITH CONNECTION TO EX 1"	2		\$3,600.00	\$	3,600.00
	SERVICE LINE, ALL TRENCH TYPES	EA	1	SUBTOTAL	\$	1,955,788.00
3			OUDTOTAL A		\$	1,681,332.00
				WASTEWATER		1.955,788.00
			SUBTOTAL \	NATER	\$	1,955,766.00
					_	2 227 122 22
			SUBTOTAL \	W + WW	\$	3,637,120.00
	gineering/Inspection/Survey TO BE REIMBURSED IN TXDOT CON	TRACT - JO	INT BID (Railro	ad ROW Coordi	nation	1)
En	Line Item / Item Description	Unit	Quantity	\$/Unit	Tay	Total
		EA	2	\$5,000.00	\$	10,000.00
	Insurance Manifering PRIS	HR	18	\$120.00	\$	2,160.00
	Survey Work Plan for Survey Monitoring - RPLS	HR	18	\$90.00	\$	1,620.00
	Survey Work Plan for Survey Monitoring - Technician				\$	54,000.00
	Survey Monitoring - 2 Man Crew Time	HR	400	\$135.00	\$	4,800.00
	Survey Monitoring - RPLS	HR	40	\$120.00	144	3,600.00
	Survey Monitoring - Technician	HR	40	\$90.00	\$	
	Flagging (per Day)	EA	40	\$1,500.00	\$	60,000.00
	UP Assigned 3rd Party Observer (per Day)	EA	40	\$2,000.00	\$	80,000.00
12/3	V			TOTAL		\$216,180.00

Line Item / Item Description	Unit	Quantity	\$/Unit City of Smithville	e	Total
neering/Inspection/Administration TO BE REIMBURSED TO: Line Item / Item Description	Unit	Quantity	\$/Unit	A STATE OF	Total
NTERNAL ADMINISTRATION - Cost associated with securing					
City Manager	HR	9.5	\$98.37	\$	934.
Public Works Director	HR	3	\$84.06	\$	252.
Grant Administration	HR	579.5	\$48.15	\$	27,902.
Grant Administration			SUBTOTAL	\$	29,089.
INTERNAL ADMINISTRATION - Costs prior to execution of agr	reement				
City Manager	HR	73.5	\$98.37	\$	7,230.
Public Works Director	HR	55	\$84.06	\$	4,623.
Utility Personnel	HR	81	\$46.69	\$	3,781.
Clerical	HR	7	\$39.64	\$	277.
Clerical (City Secretary)	HR	24.5	\$48.15	\$	1,179.
Equipment Rate	HR	40	\$50.00	\$	2,000.
			SUBTOTAL	\$	19,092.
INTERNAL ADMINISTRATION - Estimated Costs	110	90	\$98.37	\$	7,869.
City Manager	HR	80	\$39.64	\$	7,809.
Clerical (City Secretary)	HR	20		\$	2,180.
Finance Director	HR	40	\$54.50 SUBTOTAL	_ \$ _ \$	10,842.
INTERNAL MOREOTION F-P-1-10-1-			SUDTUTAL	_ φ	10,042.
INTERNAL INSPECTION - Estimated Costs	HR	400	\$84.06	\$	33,624.
Public Works Director	HR	400	\$46.69	\$	18,676
Utility Personnel	ПК	400	SUBTOTAL	\$	52,300.
			TOTAL	\$	111,324
BEFCO ENGINEERING - Cost documented with INVOICES an	od Lor CHECKS		TOTAL	Ψ	111,021
	HR	772.5	\$120.00	\$	92,700
Design Engineer / PE	HR	66.5	\$120.00	\$	7,980
RPLS	HR	674.5	\$90.00	\$	60,705
Designer/Technician	HR	57	\$135.00	\$	7,695
Two-Man Survey Crew	HR	10	\$50.00	\$	500
Clerical/Administrative	EA	4	\$15,000.00	\$	60,000
Railroad Permit Submissions	EA	- 4	SUBTOTAL	\$	229,580
BEFCO ENGINEERING Estimate - Cost documented with INV	OICES and / or	CHECKS (Est			
Design Engineer / PE (Construction Phase Services)	HR	1000	\$120.00	\$	120,000
Designer/Technician (Construction)	HR	582	\$90.00	\$	52,380
Clerical/Administrative (Partial Payments)	HR	20	\$50.00	\$	1,000
Cierical/Administrative (Partial Payments)	1113		SUBTOTAL	\$	173,380
			TOTAL	\$	402,960
Engineering / Adminis	stration / Inspect	ion SUBTOTA	\L  \$	Visalisia Malaisia	514,284
MMARY:		TOTAL	DDO IFOT COS	T 6	1 267 597
		TOTAL	PROJECT COST	1 2	4,367,584
	AMOUNT PA	YARI F IN TX	DOT CONTRACT	т[\$	3,853,300
	AMOONTIA	TABLE III TA	male de la compa		200000000000000000000000000000000000000
	GROSS	REIMBURS	ABLE TO UTILITY	Y \$	514,284
	Utility I	nternal Costs	to be Reimburse	d \$	111,324
	Utility <u>E</u>	xternal Costs	to be Reimburse	d \$	402,960
				1000	
AMOUNT DUE TO T	XDOT VIA ADV	ANCE FUNDI	NG AGREEMEN	T \$	50,092
	SALVA	GE and or Dep	oreciation CREDI	T \$	
	TIO 400 0000		Datio Doductio	n ¢	
ELIGIBILITY RA	TIO 100.00%		Ratio Deductio	<b>4</b>	
BETTERMENT RA	TIO 1.30%		Ratio Deductio	n \$	6,68
DETTERMENT IV					
	NET	REIMBURSEN	MENT TO UTILIT	Y \$	507,59

# Attachment "B" Accounting Method

<b>√</b>	Actual Cost Method of Accounting
	The utility accumulates cost under a work order accounting procedure prescribed by the Federal or State regulatory body and proposes to request reimbursement for actual direct and related indirect costs.
	Lump Sum Method of Accounting
	Utility proposed to request reimbursement based on an agreed lump sum amount supported by a detailed cost analysis.

## Attachment "C" Schedule of Work

Estimated Start Date: 01/10/2022

(subject to physical work restrictions prior to the issuance of environmental clearance as required by the provisions of this agreement)

Estimated Duration (days): 360

Estimated Completion Date: 01/09/2023

Initial Date Initial Date TxDOT Utility

Initial

TxDOT

# Attachment "D" Statement Covering Contract Work

(ROW-U-48) (ROW-U-48-1, if applicable)

	Construction Contract:
	Utility performing with their own forces (timesheets will be required at the time of billing).
<b>✓</b>	Utility will use outside forces to perform the adjustment, complete attached ROW-U-48 or ROW-U-48-1 (joint bid).
	Engineering Contract:
	Utility performing with their own forces (timesheets will be required at the time of billing).
<b>√</b>	Utility will use consultant contract (continuing contract rate sheets or fee schedule will be required).
	TxDOT will procure utility consultant.

Initial

Date

Utility



### STATEMENT COVERING UTILITY CONSTRUCTION CONTRACT WORK

(AS APPEARING IN ESTIMATE)

Form ROW-U-48 (Rev. 10/20) Page 1 of 1

	U-Number: <u>15999</u>	Utility ID: 00001377
ROW CS	J Number: <u>0323-01-029</u>	District: Austin
	Bastrop	Highway No.: SH 95
Federal	Project No.: N/A	_
l, Robe	ert Tamble	, a duly authorized and qualified representative of
	Smithville - Water & Wastewater	, hereinafter referred to as <b>Owner</b> , am fully cognizant of the
facts an	d make the following statements in respect to work w e to which this statement is attached.	rhich will or may be done on a contract basis as it appears in the
It is mor	re economical and/or expedient for <b>Owner</b> to contrac orm the necessary work on this project with its own for	t this adjustment, or <b>Owner</b> is not adequately staffed or equipped rces to the extent as indicated on the estimate.
	Procedure to be U	Ised in Contracting Work
<u></u> А.	qualified bidder who submits a proposal in confort performed. Associated bid tabulations will be prov	
□ В.	contractors and such contract is to be awarded to	lating to a list of pre-qualified contractors or known qualified the lowest qualified bidder who submits a proposal in conformity work to be performed. Associated bid tabulations will be provided to sted below:
	1.	
	2. 3.	
	4.	
	5.	u to the second of the second
☐ C.	for <b>Owner</b> and under which the lowest available c	ntinuing contract under which certain work is regularly performed costs are developed. The existing continuing contract will be made ually acceptable to the <b>Owner</b> and the <b>State</b> . If only part of the tract, give detailed information by attachment hereto.
D.	is attached to the estimate in order to obtain the o	oing requirements and therefore evidence in support of its proposal concurrence of the <b>State</b> , and the Federal Highway Administration g action thereon (approval of the agreement shall be considered as
Ø E	awarded by the <b>State</b> . In the best interest of both the plans and specifications for this work in the ge in this area, so that the work can be coordinated vectors is to be awarded by the <b>State</b> to the lower	ent of the <b>State</b> , will be included in the construction contract the <b>State</b> and the <b>Owner</b> , the <b>Owner</b> requests the <b>State</b> to include eneral contract for construction of Highway SH 95 with the other construction operations; and the construction est qualified bidder who submits a proposal in conformity with the e performed. If this option is chosen, attach form ROW-U-48-1, the nice.
Signat	cure	Date
17.0	Manager	
Title	TO THE STATE OF TH	<del>_</del>



## Statement Covering Utility Construction Contract Work – In the State's Highway Construction Contract (As Referenced in Form ROW-U-48, Option E)

### **Work Responsibilities**

A. The Utility shall provide the following services under this contract:

 Responsible for engaging the services of a Texas Registered Professional Engineer to prepare drawings and technical specifications for relocations and adjustments along SH 95

ii. Provide the plans and specifications to the State to include in the current planning specifications and estimate package being prepared by representatives of the Texas Department of Transportation's Bastrop Area Office.
 iii. Secure all necessary permitting as may be required for the installation of the

 Secure all necessary permitting as ma water & wastewater line.

- iv. Arrange and coordinate with the contractor, through the State, materials and equipment testing, rejection of all work not conforming to minimum requirements of the construction contract documents, maintenance of the proposed <a href="work area">work area</a> during construction, and the relocation of water & wastewater and connection of services to customers.
- v. Advise the State of work that Utility determines should be corrected or rejected.
- vi. Arrange, observe, and inspect all acceptance testing and notify the State of the results of these activities.
- vii. Provide inspection services for the construction, notify the State of defects and deficiencies in the work, and observe actions of the contractor to correct such defects and deficiencies.
- viii. Assume all responsibility for the maintenance of the existing water & wastewater lines during and upon completion of the construction contract.
- ix. Ensure all Texas Commission on Environmental Quality and all other regulatory rules, regulations and laws are strictly adhered to.
- x. Prepare and submit both a certificate of substantial completion and a list of observed items requiring completion or correction for the relocations and adjustments to the Project Engineer for concurrence.
- xi. Coordinate all construction activities performed by Utility's staff for the relocations and adjustments through the Project Engineer.

- B. The State shall provide the following services under this contract:
  - i. Combine the water & wastewater relocation and adjustment plans with the plans being prepared for the Project.
  - ii. Review and approve the final construction plans prior to any constructionrelated activities. In order to ensure federal and/or state funding eligibility, projects must be authorized by the State prior to advertising for construction.
  - iii. Advertise for construction bids, issue bid proposals, receive and tabulate the bids, and award and administer the contract for construction of the Project.
  - iv. Negotiate and administer all field changes and change orders required for the Project. All change orders increasing construction costs for Utility's Project shall be submitted to Utility for review and approval together with an evaluation. Utility agrees to review and either approve or disapprove all change orders within five (5) business days after receipt of such order unless Utility Board's approval is necessary in which case Utility shall bring the item to Utility Board as soon as reasonably possible.
  - v. Provide overall project management to supervise the day-to-day activities of the construction and monitor the activities of the contractor to promote the timely and efficient completion of the Project in accordance with the approved Plans and Specifications and construction schedule.
  - vi. Conduct field observations and coordinate with Utility's inspectors and the contractor to cure defects and deficiencies in the construction prior to final acceptance.
  - vii. Make timely payment to the contractor for work performed in connection with the Project.
  - viii. Ensure access and permit Utility's inspectors and other authorized representatives to inspect the waterline construction at all times.
  - ix. Conduct and coordinate final inspection of the Project in the presence of Utility's Engineer and Inspector, transmit final list of items to be completed or repaired and observe contractor correction of same.
    - x. Maintain job file.

# Attachment "E" Utility Joint Use Agreement – (ROW-U-JUA) and/or Utility Installation Request – (Form 1082)

	Utility Joint Use Agreement (ROW-U-JUA)
<b>V</b>	Utility Installation Review/Permit Number:

Wastewater - AUS20210121161553 Water - AUS20210121165734

Initial Date Initial Date TxDOT Utility

# Attachment "F" Eligibility Ratio

Eligibility Ratio established: 0.00 %

Non-interstate Highway (Calculations attached)
Interstate Highway

ROW Utility Manual Chapter 8, Section 2 In developing the ratio, line length or number of poles is restricted to facilities located within the existing and proposed highway right of way. Facilities located outside the existing and proposed right of way limits will not be used in developing the ratio.

Please see example of eligibility ratio calculations below.

Plan Sheet or Page#	In Easement (Eligible) Existing # of Poles or LF	In Public ROW (Ineligible) Existing # of Poles or LF
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	0
2	84	22
3	90	385
4	238	96
Totals	412	503

Total Existing # of Poles or LF (Eligible)	412
Total Existing # of Poles or LF (Ineligible)	503
Total Existing # of Poles or LF	915
Total Existing # of Poles or LF (Eligible) divided by the Total Existing # of Poles or LF	45.03%

Initial	Date	Initial	Date
miliai	TxDOT	Util	ity

value of the work product that can, as determined by the department, be used by the department in the performance of its functions, up to a maximum amount per proposer of \$4,867,500.

IT IS FURTHER ORDERED that payment for work product may only be paid to the extent that the work product submitted meets the minimum criteria and the proposer satisfies the conditions for payment identified by the department in the I-35 Northeast Expansion Project procurement documents.

ITEM 8. Municipal Utility Relocation Reimbursement

Bastrop County - Consider the approval of a request from the City of Smithville (city) to make the relocation of the city's utility facilities required by the SH 95 highway improvement project an expense of the state under Transportation Code §203.092(a-4) (MO)

After Item 5, Chairman Bugg brought up this item. Item 8 was presented by Right of Way Division Director Kyle Madsen. Comments were received from Bastrop County Judge Paul Pape and Smithville City Manager Robert Tamble. Commissioner New made a motion, which was seconded by Commissioner Vaughn, and the commission approved the following minute order by a vote of 4 - 0.

115588 ROW The Texas Department of Transportation (department) has a state highway project in Bastrop County, on State Highway 95, that requires the relocation of utility facilities. The City of Smithville owns certain of these utility facilities.

Transportation Code, §203.092(a-4) authorizes the Texas Transportation Commission (commission) to determine that certain publicly-owned utilities are eligible for utility facility relocation at the expense of the state. The City of Smithville has requested that the commission determine that the relocation of their utility facilities be at the expense of the state.

The commission finds and determines that the City of Smithville meets the eligibility standards contained in that statute and that the department's expenditures under Transportation Code, §203.092(a-4), including the request by the City of Smithville, will not exceed the fiscal year limitation contained in Transportation Code §203.092(e).

IT IS THEREFORE ORDERED by the commission that the relocation of the City of Smithville's utility facility required by the improvement of the state highway system is an expense of the state to be paid by the department.

ITEM 6. Design Bid Build Contract - Direct Connectors SH 99 and SH 249 Interchange Harris County - Pursuant to an understanding between the department and Harris County (county) regarding the county's agreement to fund projects selected by the department and the county that enhance regional mobility, consider designating four proposed direct southern connectors at the interchange of State Highway 99 (Grand Parkway) and State Highway 249 (Tomball Tollway) in Harris County (referred to as the SH 249 DCs), connecting two existing toll projects, as toll projects funded and constructed solely by the county on the state highway system; consider designating the two direct connectors on the southeast side of the interchange (the Southeast DCs) as part of the Grand Parkway Project and authorizing the Grand Parkway Transportation Corporation (GPTC) to operate them as part of the Grand Parkway System; consider approving the exercise of primacy for the Southeast DCs by the department to develop, finance, construct and operate them; consider authorizing GPTC to perform any function authorized, including those authorized by Chapter 431 of the Transportation Code, in connection with the Southeast DCs; consider approving the assignment of revenues from the Southeast DCs to GPTC; consider approving financial assistance under the existing toll equity loan agreement between the department and GPTC for the SH 249 DCs,

### **Stefan Srnensky**

From:

Rich Truitt

Sent:

Tuesday, September 1, 2020 12:57 PM

To:

Sarah Halbardier

Cc:

Wayne Robinson; Elizabeth Ortego; Stefan Srnensky; AUS\_Utilities

Subject:

RE: SB - 2125 Approval for Smithville

Ms. Halbardier,

I believe the Meeting Minutes will be more than sufficient.

Mr. Robinson is copied on this message, should he see otherwise.

### THANK YOU

Rich E. Truitt Right of Way Project Delivery Utility Specialist Utility Portfolio Section Right of Way Division



Texas Department of Transportation 118 E. Riverside Dr., Austin, TX 78704 Austin Office (512) 416-2906 richey.truitt@txdot.gov

ROW would love to hear from you!

Please <u>click here</u> to participate in this brief customer service survey.

<u>Utility Accommodations Toolkit – Internal</u> | <u>TNtoday Website - ROW Division</u> | <u>txdot.gov Website - ROW Division</u> Like us on <u>Facebook</u> or follow us on <u>Twitter</u>

ROW Division Mission Statement

Delivering Right of Way solutions for Texas

From: Sarah Halbardier

Sent: Tuesday, September 01, 2020 12:07 PM To: Rich Truitt <Richey.Truitt@txdot.gov>

Cc: Wayne Robinson < Wayne.Robinson@txdot.gov>; Elizabeth Ortego < Elizabeth.Ortego@txdot.gov>; Stefan Srnensky

<Stefan.Srnensky@txdot.gov>; AUS\_Utilities <AUS\_Utilities@txdot.gov>

Subject: RE: SB - 2125 Approval for Smithville

Rich,

Beth and I looked through our project files and found the commission meeting minutes that state the City of Smithville was approved for the funding.

We are beginning the SUA draft and would like to put an official approval from ROW in the agreement package. Is this something you could provide us? Should we just include the meeting minutes instead?

Thank you for your help, Sarah



Sarah Halbardier, P.E. | Utility Engineer Austin District 7901 N IH 35, Austin, TX 78753

Phone: (512) 832-7202 | Email: sarah.halbardier@txdot.gov

From: Rich Truitt

Sent: Tuesday, September 01, 2020 9:58 AM

To: Sarah Halbardier < Sarah. Halbardier@txdot.gov>

Cc: Wayne Robinson < Wayne.Robinson@txdot.gov >; Elizabeth Ortego < Elizabeth.Ortego@txdot.gov >

Subject: SB - 2125 Approval for Smithville

Ms. Halbardier, Mr. Robinson solicited an email from Mrs. Ortego which outlined the approval of the SB-2125 for Smithville. He asked that I confirm the reception and understanding of the email.

### **THANK YOU**

Rich E. Truitt
Right of Way Project Delivery Utility Specialist
Utility Portfolio Section
Right of Way Division



Texas Department of Transportation 118 E. Riverside Dr., Austin, TX 78704 Austin Office (512) 416-2906 richey.truitt@txdot.gov

ROW would love to hear from you!

Please <u>click here</u> to participate in this brief customer service survey.

<u>Utility Accommodations Toolkit – Internal</u> | <u>TNtoday Website - ROW Division</u> | <u>txdot.gov Website - ROW Division</u> Like us on <u>Facebook</u> or follow us on <u>Twitter</u>

## Attachment "G" Betterment Calculation and Estimate

- Elective Betterment Ratio established: 1.32 %
   (Calculation attached and justification below)
- Forced Betterment (Provide supporting documentation)
- ☐ Not Applicable

### Elective betterment justification statement:

Waste Water - Utility is requesting to increase the size of two wastewater crossings from 6" to 8" pipe.

Water - Utility is requesting to install a 6" water crossing for future needs.

Initial Date Initial Date
TxDOT Utility

	INKIND Cost Estimate	or Attach	ment G		SU	T STANDARD JA ESTIMATE 7/2020	Ott.	Betterment Cost Estimate for Atlachn	ient G (sar	ne as in A	macriment A)	SUA ESTIMATE 1/7020
	nithville		700	U-0000137			City of Smith SH 95	nville			U-0000137	
5 I: 03:	23-01-029				h color c	rodes match th	RCSJ: 0323	01-029 ptions to help track elective betterment due to increas	e in pipe size	NUMBER:	U15999	day was a second
hel ost e	23-01-029 p understand this cost estimate: Quantity in yellow is 100 stimate items must be sufficiently detailed to provide 14001 with a	reasonable b	osis for analysi	s items should incl	Inde atbi	ropriate units	Materials& La	timate items must be sufficiently detailed to provide TaDOT wi abor TO BE REIMBURSED IN TXDOT CONTRACT	JOINT BID	basis for analy	sis items should inclu	Total
ialså	Line Item / Item Description		Quantity	\$/Unit		Total	STATE OF THE PARTY	Line Item / Item Description TEWATER IMPROVEMENTS	Unit	Quantity	\$/Unit	lotal
4" P\	TEWATER IMPROVEMENTS /C DR-21 ASTM D2241 CL 200 PSI WITH 8"	-	T				4° PV STEE	C DR-21 ASTM D2241 CL 200 PSI WITH 8" L CASING BY OPEN CUT, ALL DEPTHS,				7 700 00
STE	EL CASING BY OPEN CUT, ALL DEPTHS,	LF	55	\$140.00	\$	7,700.00	IIINDI	ER PAVEMENT - FORCE MAIN /C DR-21 ASTM D2241 CL 200 PSI ALL DEPTHS,	LF	55	\$140.00 \$	7,700.00
ALL '	VC DR-21 ASTM D2241 CL 200 PSI ALL DEPTHS, TRENCH TYPES-FORCE MAIN	LF	153	\$48.00	\$	7,344.00	LALL 7	RENCH TYPES-FORCE MAIN CDR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT	LF	153	\$48.00 \$	7,344.00
G" PV	VC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT ER PAVEMENT (less 15' elective betterment)	LF	0	\$54.00	•		UND	ER PAVEMENT	LF	15	\$54.00 \$	810.00
6" P	VC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT				s	2,112.00	NOT	/C DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER PAVEMENT	LF	32	\$66.00 \$	2,112.00
6" P	UNDER PAVEMENT VC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT	LF	32	\$00.00	•	2,112.00	6" P\	/C DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT UNDER PAVEMENT				1,638.00
hhel	UNDER PAVEMENT [26' elective betterment [ed]]	LF	47	\$78.00	\$	3,666.00	6 P	VC DR-26 ASTM D2241 CL 160 PSI 14'-16' CUT	LF	21	\$78.00 \$	
6" P	VC DR-26 ASTM D2241 CL 160 PSI 14'-16' CUT	LF	15	\$84.00	\$	1,260.00	NOT	UNDER PAVEMENT VC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT	LF	15	\$84.00	1,260.00
	VC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT DER PAVEMENT	LF	14	\$78.00	\$	1,092.00	HIND	VC DR-26 ASTM D2241 CL 160 PSI 10'-12' CUT	LF	14	\$78.00	3,360.00
LIMIT	VC DR-26 ASTM D2241 CL 160 PSI 10'-12' CUT DER PAVEMENT	LF	40	\$84.00	\$	3,360.00	LIMIT	DER PAVEMENT VC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT	LF	40	\$84.00	3,300.00
UNI	VC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT DER PAVEMENT (199' Elective Belterment (added)						UNE	DER PAVEMENT				1440.00
INK	IND replacement with 6" pipe]	LF	245	\$90.00	\$	22,050.00	• 6' P	VC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT	LF	46	\$90.00	4,140.00
LIM	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT DER PAVEMENT WITH 12" STEEL CASING BY						UNI	DER PAVEMENT WITH 12" STEEL CASING BY				
	EN CUT [18' Elective Betterment (subtracted)]	LF	0	\$155.00	\$	-	1000	VC DR-26 ASTM D2241 CL 160 PSI 14'-16' CUT	LF	18	\$155.00	\$ 2,790.00
UN	DER PAVEMENT WITH 12" STEEL CASING BY						UNI	DER PAVEMENT WITH 12' STEEL CASING BY EN CUT				0.450.00
OP	EN CUT (30' (added INKIND replacement with 6"	LF	48	\$175.00	\$	8,400.00	1000	VC DR-26 ASTM D2241 CL 160 PSI WITH 12"	LF	18	\$175.00	\$ 3,150.00
6" F	PVC DR-26 ASTM D2241 CL 160 PSI WITH 12"					2.5	STE	EEL CASING BY BORE				
32	elective Betterment (subtracted); 63' elective terment (added) INKIND replacement as 6" pipe)				١.	00.040.00			LF	78	\$360.00	\$ 28,080.00
100	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT	LF	109	\$360,00	\$	39,240.00	8* F	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT DER PAVEMENT	LF	298	\$60.00	\$ 17,880.00
LIN	IDER PAVEMENT PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NOT	LF	298	\$60.00	\$	17,880.00	8" F	DER PAVEMENT DVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NOT DER PAVEMENT	LF	429	\$66.00	\$ 28,314.00
HIK	IDER PAVEMENT PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT	LF	429	\$66.00	\$	28,314.00	8° I	PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT T UNDER PAVEMENT	LF	237	\$78.00	\$ 18,486.00
NIC	OT UNDER PAVEMENT PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT	LF	237	\$78.00	\$	18,486.00	8"	PVC DR-26 ASTM D2241 CL 160 PSI 12-14' CUT T UNDER PAVEMENT [26' Electiva Betterment due				
NO	OT UNDER PAVEMENT	LF	0	\$84.00	\$	-	1000	ncrease to 8" pipe) PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NO	LF	26	\$84.00	\$ 2,184.00
8"	PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NOT NDER PAVEMENT WITH 12" PVC CASING BY						UN	IDER PAVEMENT WITH 12" PVC CASING BY	LF	273	\$138.00	\$ 37,674.00
	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NOT	LF	273	\$138.00	\$	37,674.00	8*	'EN CUT PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NO' IDER PAVEMENT WITH 12' PVC CASING BY				
U	NDER PAVEMENT WITH 12" PVC CASING BY	LF	360	\$132.00	s	47,520.00	OF	ENCUT	LF	360	\$132.00	\$ 47,520.00
8*	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT	LF	169	\$72.00	s	12,168.00	less.	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT IDER PAVEMENT	LF	169	\$72.00	\$ 12,168.00
8*	NDER PAVEMENT PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT						110	PVC DR-26 ASTM D2241 CL 160 PSI 12-14' CUT IDER PAVEMENT WITH 14" STEEL CASING BY				
U	NDER PAVEMENT	LF	0	\$102.00	\$	-		PEN CUT [199' Elective Betterment due to increase in se size from 6" to 8"]	LF	199	\$102.00	\$ 20,298.00
8	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NDER PAVEMENT WITH 12" PVC CASING BY						U	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NDER PAVEMENT WITH 12' PVC CASING BY	LF	40	\$144.00	\$ 5,760.00
1.	DEN OUT	LF	40	\$144.00	\$	5,760.00	B <sub>0</sub>	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT	LF	40	\$144.00	0,744,44
Įυ	PEN COT PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT NDER PAVEMENT WITH 12" PVC CASING BY	1F	45	\$150.00	s	6,750.00	0	NDER PAVEMENT WITH 12* PVC CASING BY PEN CUT	LF	45	\$150.00	\$ 6,750.00
8	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT						8°	PVC DR-26 ASTM D2241 CL 160 PSI 0'-6' CUT NDER PAVEMENT WITH 14" STEEL CASING BY		10	\$192.00	\$ 3,456.00
· lo	NDER PAVEMENT WITH 14" STEEL CASING BY PEN CUT	LF	18	\$192.00	\$	3,456.00	01	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT	LF	18	\$182.00	0,100100
lu	PVC DR-26 ASTM D2241 CL 160 PSI 6'-8' CUT INDER PAVEMENT WITH 14" STEEL CASING BY	1F	131	\$198.00	s	25,938.00	. 0	NDER PAVEMENT WITH 14" STEEL CASING BY PEN CUTE	LF	131	\$198.00	\$ 25,938.00
n	PEN CUTE * PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT		101	1,00,00			81	PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT NDER PAVEMENT WITH 14" STEEL CASING BY			*******	s 5,250.00
<ul> <li>Ic</li> </ul>	INDER PAVEMENT WITH 14" STEEL CASING BY OPEN CUT	LF	25	\$210.00	s	5,250.00	. 0	PEN CUT PVC DR-26 ASTM D2241 CL 160 PSI 12'-14' CUT	LF	25	\$210.00	\$ 0,200,00
8	" PVC DR-26 ASTM D2241 CL 160 PSI 12-14" CUT JNDER PAVEMENT WITH 14" STEEL CASING BY		1	1	1		1000	NDER PAVEMENT WITH 14" STEEL CASING BY PEN CUT (30" Elective Betterment due to increase in		00	\$000.00	\$ 6,660.00
. 19	OPEN CUT	LF	0	\$222.00	\$		. b	to Bridge Size from 6" to 8"] " PVC DR-26 ASTM D2241 CL 160 PSI WITH 14"	LF	30	\$222.00	9,000.00
8	STEEL CASING BY BORE			1			S	TEEL CASING BY BORE [63' Elective Betterment do increase in pipe size from 6" to 8"]			\$420.00	\$ 56,280.00
.		LF	71	\$420.00	\$	29,820.0	1	2" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT	LF	134		\$ 10,980.00
١.	12" PVC DR-26 ASTM D2241 CL 160 PSI 8'-10" CUT NOT UNDER PAVEMENT	LF	122	\$90.00	\$	10,980.0	1	OT UNDER PAVEMENT 2' PVC DR-26 ASTM D2241 CL 160 PSI 10'-12' CU	LF T	122		\$ 57,528.00
1	12° PVC DR-26 AS IM DZ241 CL 160 PSI 10-12 COT	LF	564	\$102.00	\$	57,528.0		NOT UNDER PAVEMENT 12" PVC DR-26 ASTM D2241 CL 160 PSI 12'-14" CU	r	564		\$ 57,528.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 12"-14" CUT	LF	101	\$114.00	\$	11,514.0	0	NOT UNDER PAVEMENT 12' PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT	LF	101	\$114.00	\$ 11,514.00
	12° PVC DR-26 ASTM D2241 CL 160 PSI 8'-10' CUT UNDER PAVEMENT	LF	144	\$102.00	\$	14,688.0	0	JNDER PAVEMENT	LF	144	\$102.00	3 14,000.00
	12" PVC DR-26 ASTM D2241 CL 160 PSI 8"-10" CUT UNDER PAVEMENT WITH 20" STEEL CASING BY		25	\$246.00		6,150.0		UNDER PAVEMENT WITH 20" STEEL CASING BY	LF	25	\$246.00	\$ 6,150.00
	OPEN CUT 12" PVC DR-26 ASTM D2241 CL 160 PSI WITH 20"	LF	348	\$540.00		187,920.0		12" PVC DR-26 ASTM D2241 CL 160 PSI WITH 20"	LF	348	\$540.00	\$ 187,920.0
	STEEL CASING BY BORE 15" PVC SDR-26 ASTM D3034 12'-14' CUT UNDER	LF	1	\$144.00		7,488.0		15" PVC SDR-26 ASTM D3034 12'-14' CUT UNDER	LF	52	\$144.00	\$ 7,488.0
	PAVEMENT 15" PVC SDR-26 ASTM D3034 14'-16' CUT UNDER	LF	52	\$156.00	00	33,072.0	0	15" PVC SDR-26 ASTM D3034 14'-16' CUT UNDER PAVEMENT	LF	212	\$156.00	\$ 33,072.0
	PAVEMENT 20° PVC C900 DR 25 CL 165 PSI 8'-10' CUT NOT	LF	212			5,040.0		20° PVC C900 DR 25 CL 165 PSI 8'-10' CUT NOT	LF	28	\$180.00	\$ 5,040.0
	UNDER PAVEMENT 20° PVC C900 DR 25 CL 165 PSI 10'-12' CUT NOT	LF	28	\$180.00		4,608.0	v .	20° PVC C900 DR 25 CL 165 PSI 10'-12' CUT NOT	LF	24	\$192.00	\$ 4,608.0
	UNDER PAVEMENT 20" PVC C900 DR 25 CL 165 PSI 12'-14' CUT NOT	LF	24	\$192.00		10,200.0	2	20° PVC C900 DR 25 CL 165 PSI 12'-14' CUT NOT	LF	50	\$204.00	\$ 10,200.0
1	UNDER PAVEMENT 20° PVC C900 DR 25 CL 165 PSI 14'-16' CUT NOT	LF	50	\$204.00			100	20° PVC C900 DR 25 CL 165 PSI 14'-16' CUT NOT	LF			\$ 12,096.0
	UNDER PAVEMENT 20" PVC C900 DR 25 CL 165 PSI 16'-18' CUT NOT	LF	56	\$216.00		12,096.		20° PVC C900 DR 25 CL 165 PSI 16'-18' CUT NOT	LF			\$ 38,280.0
	UNDER PAVEMENT	LF	174	\$220.00	0 \$	38,280.	N	UNDER PAVEMENT 20" PVC C900 DR 25 CL 165 PSI 14'-16' CUT UND PAVEMENT WITH 30" STEEL CASING BY OPEN C	ER			
	PAVEMENT WITH 30" STEEL CASING BY OPEN CUT	LF	18	\$475.0	0 \$	8,550.	00	PAVEMENT WITH 30" STEEL CASING BY OPEN C 20" PVC C900 DR 25 CL 165 PSI 16'-18' CUT UND	I LF	18	\$475.00	\$ 8,550.0
-	20" PVC C900 DR 25 CL 165 PSI 16'-18' CUT UNDER PAVEMENT WITH 30" STEEL CASING BY OPEN CU					2 20 20 20 20	W 21	20° PVC C900 DR 25 CL 165 PSI 16°-18° CUT UND PAVEMENT WITH 30° STEEL CASING BY OPEN C	UT	13	\$480.00	\$ 6,240.0
	20° PVC C900 DR 25 CL 165 PSI WITH 30° STEEL	LF	13	\$480.0		6,240.		20" PVC C900 DR 25 CL 165 PSI WITH 30" STEEL	LF		0000000000	\$ 24,420.
	CASING BY BORE	LF	37	\$660.0	0 \$	24,420.	00	CASING BY BORE 4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTH	S.	3/	\$300.00	2.,
1	4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL TRENCH TYPES - LONG SERVICE (including DI	EA	10	\$3,600.		36,000		ALL TRENCH TYPES - LONG SERVICE (including fittings)	DI EA	10	\$3,600.00	\$ 36,000.

Line Item / Item Description 4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS,	Unit	Quantity	\$/Unit	- Carrier	Total
ALL TRENCH TYPES - LONG SERVICE WITH DEEP SERVICE CONNECTION (including DI fittings)					
4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS,	EA	2	\$4,800.00	\$	9,600.00
ALL TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (including DI fittings)	i				
	EA	9	\$3,360.00	\$	30,240.00
4" PVC D-26 ASTM D2241 CL 160 PSI ALL DEPTHS, ALL TRENCH TYPES - SHORT SERVICE WITH DEEP					
SERVICE CONNECTION (including DI fittings)	EA	1	\$4,560.00	\$	4,560.00
4" PVC DR-26 ASTM D2241 CL 160 PSI ALL DEPTHS, UNDER PAVEMENT WITH 8" STEEL CASING BY					
OPEN CUT	LF	216	\$135.00	\$	29,160.00
4" PVC DR-26 ASTM D2241 CL 160 PSI WITH 8" STEEL CASING BY BORE	LF	352	\$336.00	\$	118,272.00
4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING 0-6' DEPTH NOT UNDER				91.0	
PAVEMENT 4' DIA PRE-CAST CONCRETE MANHOLES WITH	EA	14	\$6,000.00	\$	84,000.00
INTERIOR COATING 0-6' DEPTH NOT UNDER					
PAVEMENT WITH WATER TIGHT RIM [less 1 elective betterment]	EA	2	\$6,600.00	\$	13,200.00
ADDITIONAL DEPTH OF 4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING					
NOT UNDER PAVEMENT (VERTICAL FEET)	LF	62	\$600.00	s	37,200.00
4' DIA PRE-CAST CONCRETE MANHOLES WITH	Li	- 02	\$000.00	Ť	07,200.00
INTERIOR COATING 0-6' DEPTH UNDER PAVEMENT	EA	6	\$6,600.00	\$	39,600.00
ADDITIONAL DEPTH OF 4' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING					
UNDER PAVEMENT (VERTICAL FEET)	15	24.0	\$720.00		17 028 O
5' DIA PRE-CAST CONCRETE MANHOLE WITH	LF	24.9	\$720.00	\$	17,928.00
INTERIOR COATING 0-6' DEPTH NOT UNDER PAVEMENT	EA	3	\$9,000.00	\$	27,000.00
ADDITIONAL DEPTH OF 5' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING					
NOT UNDER PAVEMENT (VERTICAL FEET)		~~ =	\$700.00		15 000 00
5' DIA PRE-CAST CONCRETE MANHOLE WITH	LF	20.5	\$780.00	\$	15,990.00
INTERIOR COATING 0-6' DEPTH UNDER PAVEMENT	EA	3	\$9,600,00	s	28,800.00
ADDITIONAL DEPTH OF 5' DIA PRE-CAST					
CONCRETE MANHOLES WITH INTERIOR COATING UNDER PAVEMENT (VERTICAL FEET)					
4' DIA. FINAL MANHOLE RIM ADJUSTMENTS	EA EA	21.5 8	\$900.00 \$2,500.00	\$	19,350.00
5' DIA. FINAL MANHOLE RIM ADJUSTMENTS TIE IN TO EXISTING LIFT STATION	EA EA	2	\$3,000.00 \$24,000.00	\$	6,000.00 24,000.00
TIE IN EXISTING 3" FORCE MAIN	EA	1	\$2,400.00	\$	2,400.00
TIE IN EXISTING 4" FORCE MAIN TIE IN EXISTING 6" GRAVITY WASTEWATER	EA EA	1	\$2,400.00 \$2,400.00	\$	4,800.00 2,400.00
TIE IN EXISTING 8" GRAVITY WASTEWATER	EA EA	2	\$3,000.00 \$3,600.00	\$	6,000.00 3,600.00
TIE IN EXISTING 10* GRAVITY WASTEWATER TRENCH PROTECTION (less 65' elective betterment)					
ASPHALT PAVEMENT REPAIR	LF LF	1107	\$6.00 \$36.00	\$	26,646.0 39,852.0
ASPHALT PAVEMENT REPAIR (BORE PITS) (less 13'	LF	218	\$120.00	s	26,160.0
elective betterment) GRAVEL PAVEMENT REPAIR (LINES)	LF	230	\$12.00	Š	2,760.0
REMOVALS - EXISTING WASTEWATER LINE - CUT, PLUG, AND ABANDON IN PLACE WITH NO			0.00000000		
PRESSURE GROUTING REMOVALS - EXISTING 6* AND UNDER	LF	928	\$9.00	\$	8,352.0
WASTEWATER LINE - CUT, PRESSURE GROUT,	LF	644	\$14.00	s	9,016.0
PLUG AND ABANDON IN PLACE REMOVALS - EXISTING 8" WASTEWATER LINE -	Lr	044	\$14.00	1	3,010.0
CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE	LF	2984	\$16.00	\$	47,744.0
REMOVALS - EXISTING 10" WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN					
PLACE REMOVALS - REMOVE EXISTING MANHOLES FULL	LF	1738	\$18.00	\$	31,284.0
DEPTH	EA	15	\$2,400.00	\$	36,000.0
REMOVALS - REMOVE EXISTING CLEANOUTS FULL DEPTH	EA	6	\$1,200.00	\$	7,200.0
POTHOLING AT WASTEWATER SERVICE TIE IN LOCATIONS	EA	22	\$2,400.00	\$	52,800.0
TEMPORARY 10" WASTEWATER TIE-IN TO		1	\$6,000,00	s	6.000.0
PROPSOED 20" AT WWTP TEMPORARY 4" WASTEWATER TIE-IN TO	EA			100	
PROPOSED 8" WASTEWATER LINE	EA	1	\$2,000.00 SUBTOTAL	\$	2,000.0 1,649,928.0
WATER IMPROVEMENTS 6° C900 DR-18 PVC WATER LINE NOT UNDER	No. April 1	4-910/95	Market Branch M	7	9952
PAVEMENT	LF	690	\$54.00	\$	37,260.0
6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT (less 14' elective betterment)					
6° C900 DR-18 PVC WATER LINE UNDER	LF	86	\$66.00	\$	5,676.0
PAVEMENT 6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF	185	\$66.00	\$	12,210.0
UNDER PAVEMENT WITH 10" STEEL CASING BY		1000			
OPEN CUT (less 18' elective betterment)	LF	68	\$160.00	\$	10,880.0
6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 10" STEEL CASING BY BORE (less 27" elective					
betterment) 8* C900 DR-18 PVC WATER LINE NOT UNDER PVMT	LF	165	\$360.00	\$	59,400.0
	LF	47	\$66,00	\$	3,102.0
8° CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT	LF	39	\$84.00	\$	3,276.0
8" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14" STEEL CASING BY	1				
OPEN CUT  8* CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF	16	\$200.00	\$	3,200.0
In OFWIN-FOW WHID COOP DU- IO LAC ANVIEW FINE	LF	63	\$420.00	\$	26,460.0
WITH 14" STEEL CASING BY BORE	LF	92	\$96.00	\$	8,832.0
WITH 14" STEEL CASING BY BORE 10" C900 DR-18 PVC WATER LINE UNDER PAVEMENT		200000	\$90.00	\$	290,520.0
WITH 14" STEEL CASING BY BORE 10" C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12" C900 DR-18 PVC WATER LINE NOT UNDER	02:000	3228	1	s	90,558.0
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF	3228	\$162.00		eU,000.l
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER 12' C900 DR-18 PVC WATER LINE NOT UNDER	LF LF	559	\$162.00		
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT	LF		\$162.00 \$102.00	\$	39,882.0
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-19 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' C900 DR-19 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 15' STEEL CASING BY O'PEN CUT, ALL	LF LF	559 391	\$102.00	\$	
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-19 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 19' STEEL CASING BY O'PEN CUT, ALL TRENCH TYPES 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF LF LF	559 391 669	\$102.00 \$312.00	\$	208,728.0
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CETA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CETA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CETA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 19' STEEL CASING BY OPEN CUT, ALL TRENCH TYPES 12' CETA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 20' STEEL CASING BY BORE 6' GATE VALOK RJIB C900 DR-18 PVC WATER LINE WITH 20' STEEL CASING BY BORE 6' GATE VALVE (Bes 1 elective betterment)	LF LF LF LF EA	559 391 669 285	\$102.00 \$312.00 \$540.00 \$2,400.00	\$ \$ \$	208,728.0 153,900.0 24,000.0
WITH 14' STEEL CASING BY BORE 10' C900 DR-18 PVC WATER LINE UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 16' STEEL CASING BY OPEN CUT, ALL TRENCH TYPES 12' CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 25' STEEL CASING BY BORE	LF LF LF	559 391 669 285	\$102.00 \$312.00 \$540.00	s s	39,882.0 208,728.0 153,900.0 24,000.0 12,000.0 3,600.0

##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, ALL TRENCH TYPES - LONG SERVICE WITH DEEP SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, ALL TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, ALL TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, ALL TRENCH TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, UNDER PROVIDER SHORT SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, UNDER PROVIDER SHORT SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, UNDER PROVIDER SHORT SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, UNDER PROVIDER SHORT SERVICE CONNECTION (podsing of Mings)  ##POTO 29 ASTMOZ241 CL 169 PSIAL DEPTHS, UNDER PROVIDER WITH STEEL CASING BY BORE 4								
ALT TRENON TYPES - LONG SERVICE WITH DEEP SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, ALL TRENON TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, ALL TRENON TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, ALL TRENON TYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, ALL TRENON TYPES - SHORT SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI ALL DEPTHS, ALL TRENON TYPES - SHORT SERVICE CONNECTION (exchaing 10 miles)  FPVE DOE A STAND 2241 CL 150 PSI WITH FILE SERVICE CONNECTION WITH 16 "STEEL CASIND TYPE OF SERVICE CONNECTION WITH 16 "STEEL CASIND TYPE OF SERVICE CONNECTION OF DEPTH NOT UNDER PAVEMENT WITH WAIRER TOWN TO WIDER PAVEMENT WITH WAIRER TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOWN	4" PV		Unit	Quantity	\$/Unit	1000	Total	
PPUTE DATA ANTIQUATE CI. 140 PENALL DEPTHS	ALL T	RENCH TYPES - LONG SERVICE WITH DEEP	- 1					
ALL TREIGHT TYPES - SHORT SERVICE WITH LOEP  FA 9 \$33,000.0 \$ .0.2  F PVC DO 26 ASTIN D2241 CL 169 PSIALL DEPTHS, SERVICE CONNECTION (socking) for mirgo)  FA 1 \$4,500.00 \$ .4.5  F PVC DO 26 ASTIN D2241 CL 169 PSIALL DEPTHS, UNDER PAVEMENT WITH 6° STEEL CASHING BY F PVC DR 26 ASTIN D2241 CL 160 PSI WITH 6° STEEL CASHING BY SORE  F PVC DR 26 ASTIN D2241 CL 160 PSI WITH 6° STEEL CASHING BY SORE  F PVC DR 26 ASTIN D2241 CL 160 PSI WITH 6° STEEL CASHING BY SORE  F PVC DATE OF THE STEEL CASHING BY UNDER PAVEMENT WITH 6° STEEL CASHING BY OLD A PRE-CAST CONCRETE MANHOLES WITH MIESTOR COATING 0° DEPTH NOT UNDER PAVEMENT WITH WITER TIGHT RIM  F A 3 \$ 56,600.00 \$ .94.6  ADDITIONAL DEPTH OF 7 DA PRE-CAST CONCRETE MANHOLES WITH MITTER COATING NOT UNDER PAVEMENT VERTICAL FEET)  F DIA PRE-CAST CONCRETE MANHOLES WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH UNDER PAVEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH MIESTOR COATING 0° DEPTH DEPTH OF DIA PRE-CAST  CONCRETE MANHOLES WITH MIESTOR COATING  MICHAEL MANHOLES WITH MIESTOR COATING	1.0		EA	2	\$4,800.00	\$	9,600.00	
SERVICE CONNECTION (Incidually of Minings)  FAX 0. 35,350.00 \$ 30.2  FPG CAS ASTRO DEZAR CL (190 PSI ALL DEPTHS, ALL TREINCH PYPES - SHORT SERVICE WITH DEEP SERVICE CONNECTION (Incidually of Minings)  EA 1 \$4,550.00 \$ 4.5  FPG CAS ASTRO DEZAR CL (150 PSI ALL DEPTHS, ALL TREINCH PYPES - SHORT SERVICE CONNECTION (Incidually of Minings)  EA 1 \$4,550.00 \$ 4.5  FPG CAS ASTRO DEZAR CL (150 PSI ALL DEPTHS)  FPG CAS ASTRO DEZAR CL (150 PSI ALL DEPTHS)  FIRE LOSING BY GOME  F	ALL T	RENCH TYPES - SHORT SERVICE WITH DEEP						
F.PVIC D28 ASTMOZ241 CL 169 PSIAL DEPTHIS, SERVICE CONNECTION (podalog to finings)	SERV	TICE CONNECTION (including DI fittings)	FA	9	\$3.360.00	s	30,240.00	
SERVICE CONNECTION (Incidency of Heirop)  FA 1 \$4550.00 \$ 4.5.  TPOC GRAGA SATIN DE241 GL. 169 PSI WITH P  FPOC	4" PV	C D-26 ASTM D2241 CL 160 PSI ALL DEPTHS,						
### FYPE DR. 200 ALS DEPTHS UNDER PAYMENT WITH 6** STEEL CASING DY OPEN CUIT  UNDER PAYMENT WITH 6** STEEL CASING DY OPEN CUIT  FYPE CASTS ASTMOZEAS CLE 100 PSIWTH 6**  FYPE CASTS CONCRETE MANHOLES WITH 100 PSIWTH 6**  ADDITIONAL DEPTH OF 7 DIA PRE-CAST CONCRETE MANHOLES WITH MITERIOR COATING OND 100 PSIWTH 100 P								
UNDER PAYMENENT WITH 6 STEEL CASING BY  OPERAL CUTS  OPER	4* PV	C DR-26 ASTM D2241 CL 160 PSI ALL DEPTHS.	EA	1	\$4,560.00	\$	4,560.00	
### FYEOR 728 ASTIMOZAL CL. 160 PSI WITH 6" ### STEEL CASHIN OF POPPH MOT UNDER ### AT THE PARKET STATE ON THE PARKET STATE ST	UND	R PAVEMENT WITH 8" STEEL CASING BY	15	216	\$135.00	,	29,160.00	
### FIREROR CONTINGE MANHOLES WITH INTERIOR COATING OF DEPTH HOT UNDER PAYMENT WITH WATER TIGHT RIM ### ADDITIONAL DEPTH OF **DAY PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYMENT WATER TIGHT RIM ### ADDITIONAL DEPTH OF **DAY PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYMENT WATER TIGHT RIM ### ADDITIONAL DEPTH OF **DAY PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYMENT (VERTICAL FEET) ### ADDITIONAL DEPTH OF **DAY PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING OF DEPTH WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING UNDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH NOT UNDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH NOT UNDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH HOT UNDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH HOT UNDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING OF DEPTH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICAL FEET) ### DAY PRE-CAST CONCRETE MANHOLE WITH HOT WORDER PAYMENT (VERTICA	4° PV	C DR-26 ASTM D2241 CL 160 PSI WITH 8"	6/2	isamice i			Section 2 Action 10	
PAYEMENT	4' DIA	L CASING BY BORE PRE-CAST CONCRETE MANHOLES WITH	LF	352	\$336.00	\$	118,272.00	
### DAPPRE CAST CONCRETE MANHOLES WITH INTERIOR COATING PAVEMENT WITH WATER ITIGHT RIM  EA 3 \$6,600.00 \$ 19.6  ADDITIONAL DEPTH OF 4" DIA PIECAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAVEMENT (VERTICAL FEET)			FA	14	\$6,000.00	s	84,000.00	
PAVEMENT WITH WATER TIGHT RIM CONDITIONAL DEPTH OF 9 DAY PRE-CAST	4' DI/	PRE-CAST CONCRETE MANHOLES WITH						
ADDITIONAL DEPTH OF 9 DIA PRE-CAST   CONCRETE MANDICES WITH INTERIOR COATING NOT UNDER PAVEMENT (VERTICAL FEET)   F.	PAVE	MENT WITH WATER TIGHT RIM						
CONCRETE MANHOLES WITH INTERIOR COATHO NOT UNDER PAYEMENT (VERTICAL FEET)  F DIA PRECAST CONCRETE MANHOLES WITH MITERIOR COATHOG OF DEPTHUNDER PAYEMENT ADDITIONAL DEPTH OF 4"DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATHOG OF DEPTHUNDER PAYEMENT F DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATHOG OF DEPTHUNDER PAYEMENT CONCRETE MANHOLES WITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATHOG OF DEPTHUNDER PAYEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATHOG OF DEPTHUNDER PAYEMENT  F DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLES WITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH INTERIOR COATHOG UNDER PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA PRIAL MANHOLE SWITH TO THE PAYEMENT (VERTICAL FEET)  F DIA	ADDI	TIONAL DEPTH OF 4' DIA PRE-CAST	EA	3	\$6,600.00	3	19,800.00	
TOAPRE-CAST CONGRETE MANHOLES WITH   MITERIOR COATING 0.6 DEPTH UNDER PAYEMENT   EA					******			
INTERIOR COATING 0-0 DEPTH UNDER PAYEMENT   EA			LF	62	\$600.00	\$	37,200.00	
ADDITIONAL DEPTH OF A DIA PRE-CAST (CONCRETE MANHOLES WITH HITERIOR COATING UNDER PAYEMENT (VERTICAL FEET)   F. 24.9 \$720.00 \$ 17.6	INTE	RIOR COATING 0-6' DEPTH UNDER PAVEMENT		_		١.		
CONGRETE MANHOLES WITH INTERIOR COATING UNDER PAVEMENT (VERTICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING 0.6° DEPTH NOT UNDER PAVEMENT (PRITICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING 0.6° DEPTH NOT UNDER PAVEMENT (PRITICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING NOT UNDER PAVEMENT (PRITICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING NOT UNDER PAVEMENT (PRITICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING 0.6° DEPTH UNDER PAVEMENT  6° DIA PRICA STORMENT (PRITICAL FEET)  5° DIA PRICA STORMENT (PRITICAL FEET)  6° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2.1.5 \$900.00 \$ 2.80.  6° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 8 \$5.2500.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 1 \$2.400.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  7° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM EN 2 \$3.000.00 \$ 2.00.  9° DIA FINAL MANHOLE RIM EN 2 \$3.0	ADDI	TIONAL DEPTH OF 4' DIA PRE-CAST	EA	6	\$6,600.00	\$	39,600.00	
FUAPRE-CAST CONGRETE MANHOLE WITH INTERIOR COATING 0 & DEPTH NOT UNDER PAYEMENT	CON	CRETE MANHOLES WITH INTERIOR COATING			× 1		1.0	
INTERIOR COATING 06 DEPTH NOT UNDER PAYEMENT ADDITIONAL DEPTH OF 67 DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYEMENT (VERTICAL FEET)   LF 20.5 \$780.00 \$ 15.15    FOUR PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYEMENT (VERTICAL FEET)   LF 20.5 \$780.00 \$ 15.15    FOUR PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYEMENT (VERTICAL FEET)   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    ADDITIONAL DEPTH OF 67 DIA PRE-CAST   LF 20.5 \$780.00 \$ 2.26    TO A FINAL MANHOLE SWITH INTERIOR COATING UNDER PAYEMENT (VERTICAL FEET)   LF 20.5 \$1.00    THE IN EDISTING ST FORCE MAN	1		LF	24.9	\$720.00	\$	17,928.00	
ADDITIONAL DEPTH OF 9 DIA PRE-CAST CONCRETE MANNIOLES WITH INTERIOR COATING NOT UNDER PAYEMENT (VERTICAL FEET)   LF 20.5 \$780.00 \$ 1.5.5	5' DI	A PRE-CAST CONCRETE MANHOLE WITH RIOR COATING 0-6' DEPTH NOT UNDER			1			
CONGRETE MANHOLES WITH INTERIOR COATING NOT UNDER PAYEMENT (VERTICAL FEET)  5° DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING 6° DEPTH UNDER PAYEMENT   INTERIOR COATING 6° DEPTH UNDER PAYEMENT   EA 3 \$9,600.00 \$ 28,1  ADDITIONAL DEPTH 0° S° DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING UNDER PAYEMENT (VERTICAL FEET)  4° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$15,000.00 \$ 20,0  5° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$2,500.00 \$ 20,0  5° DIA FINAL MANHOLE RIM ADJUSTMENTS EA 2 \$3,000.00 \$ 0,0  TIE IN TE WISTING UFF 1 STATON EA 1 \$2,400.00 \$ 2,0  TIE IN TO EXISTING UFF 1 STATON EA 1 \$2,400.00 \$ 2,0  TIE IN TO EXISTING UFF STATON EA 1 \$2,400.00 \$ 2,0  TIE IN EXISTING 3° FORCE MAIN EA 1 \$2,400.00 \$ 2,0  TIE IN EDISTING G° GRAVITY WASTEWATER EA 2 \$3,000.00 \$ 0,0  TIE IN EDISTING G° GRAVITY WASTEWATER EA 1 \$3,400.00 \$ 2,0  TIE IN EDISTING G° GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2,0  TIE IN EDISTING G° GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2,0  TIE IN EDISTING G° GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 3,0  ASPHALT PAYEMENT REPAIR (LINES) LF 4500 \$ 510.00 \$ 27,0  GRAVEL PAYEMENT REPAIR (LINES) LF 231 \$120.00 \$ 27,0  GRAVEL PAYEMENT REPAIR (LINES) LF 231 \$120.00 \$ 27,0  GRAVEL PAYEMENT REPAIR (LINES) LF 230 \$120.00 \$ 27,0  REMOVALS - EXISTING WASTEWATER LINE - CUT, PRESSURE GROUTING LF WASTEWATER LINE - CUT, PRESSURE GROUT	PAVE	MENT	EA	3	\$9,000.00	\$	27,000.00	
DIA PRE-CAST CONCRETE MANHOLE WITH INTERIOR COATING 0-9 DEPTH UNDER PAVEMENT   EA   3 \$9,600.00 \$ 20,	CON	CRETE MANHOLES WITH INTERIOR COATING						
INTERIOR COATING OF DEPTH UNDER PAVEMENT	NOT	UNDER PAVEMENT (VERTICAL FEET)	LF	20.5	\$780.00	\$	15,990.00	
ADDITIONAL DEPTH OF 6' DIA PRE-CAST CONCRETE MANHOLES WITH INTERIOR COATING UNDER PAYMENT (VERTICAL FEET)  4' DIA FINAL MANHOLE RIM ADJUSTMENTS EA 8 \$2,500.00 \$ 20.00  4' DIA FINAL MANHOLE RIM ADJUSTMENTS EA 8 \$2,500.00 \$ 20.00  4' DIA FINAL MANHOLE RIM ADJUSTMENTS EA 8 \$2,500.00 \$ 20.00  5' DIA FINAL MANHOLE RIM ADJUSTMENTS EA 1 \$2,400.00 \$ 2.00  TIE IN TO EXISTING LIFT STATION EA 1 \$2,400.00 \$ 2.00  TIE IN EXISTING S' FORCE MAIN EA 1 \$2,400.00 \$ 2.00  TIE IN EXISTING S' FORCE MAIN EA 1 \$2,400.00 \$ 2.00  TIE IN EXISTING S' FORCE MAIN EA 2 \$3,000.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 2 \$3,000.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 2 \$3,000.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 2 \$3,000.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER EA 1 \$3,600.00 \$ 2.00  TIE IN EXISTING G' GRAVITY WASTEWATER LINE - CUT, PLUG, AND ABANDON IN PLACE EACH WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE EACH WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE EACH WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE EACH WASTEWATER EIN TO PROPOSED S' AT WASTEWATER LINE EN TO PROPOSED S' AT WASTEWATER TE-IN TO PROPOSED S' WASTEWATER TIE-IN TO EA 1 \$6,600.00 \$ 2.00  TEMPORARY 10' WASTEWATER TIE-IN TO EA 1 \$6,000.00 \$ 2.00  TEMPORARY 10' WASTEWATER LINE NOT UNDER PAYMENT IN 10' STEEL CASING BY OWN THE LINE WITH	5' DI	A PRE-CAST CONCRETE MANHOLE WITH						
CONCRETE MANHOLES WITH INTERIOR COATING UNDER PAVEMENT (VERTICAL FEET)   EA			EA	3	\$9,600.00	\$	28,800.00	
## DIA FINAL MANHOLE RIM ADJUSTMENTS	CON	CRETE MANHOLES WITH INTERIOR COATING						130
FOIL FINAL MANHOLE RIM ADJUSTMENTS	UND	ER PAVEMENT (VERTICAL FEET)	EA	21.5	\$900.00	s	19,350.00	190
TIEL IN TO EXISTING LIFT STATION			EA	8	\$2,500.00	\$	20,000.00	13
TIEL IN EXISTING 4* FORCE MAIN	TIE	N TO EXISTING LIFT STATION					6,000.00 24,000.00	
TIEL IN EXISTING 6* GRAVITY WASTEWATER	TIE	N EXISTING 3" FORCE MAIN					2,400.00 4,800.00	
TIE IN EXISTING 10" GRAWITY WASTEWATER	TIEI	N EXISTING 6" GRAVITY WASTEWATER	EA	1	\$2,400.00	\$	2,400.00	19
TRENCH PROTECTION	TIE	N EXISTING 8" GRAVITY WASTEWATER N EXISTING 10" GRAVITY WASTEWATER					6,000.00 3,600.00	100
ASPHALT PAVEMENT REPAIR (BORE PITS)				4506	200000000		27,036.00	
CRAVEL PAVEMENT REPAIR (LINES)	ASP	HALT PAVEMENT REPAIR					39,852.00	
GRAWLE PAVEMENT REPAIR (LINES)	ASP	HALT PAVEMENT REPAIR (BORE PITS)	LF	231	\$120.00	\$	27,720.00	
PLUG, AND ABANDON IN PLACE WITH NO   LF   928   \$9.00   \$ 8.	GRA	VEL PAVEMENT REPAIR (LINES)	LF	230	\$12.00	\$	2,760.00	
REMOVALS - EXISTING G* AND UNDER WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE   F. 2984   \$16.00   \$ 47.	PLU	G, AND ABANDON IN PLACE WITH NO			40.00	١.	0.050.00	
WASTEWATER LINE - CUT, PRESSURE GROUT,   LF	PRE	SSURE GROUTING IOVALS - EXISTING 6" AND UNDER	LF	928	\$9.00	\$	8,352.00	100
CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE   REMOVALS - EXISTING 10" WASTEWATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE   TUD. AND ABANDON IN PLACE	WAS	STEWATER LINE - CUT, PRESSURE GROUT,	LF	644	\$14.00	s	9,016.00	
PLACE						1		96
CUT, PRESSURE GROUT, PLUG AND ABANDON IN PLACE   REMOVALS - REMOVE EXISTING MANHOLES FULL   EA   15   \$2,400.00   \$ 36.	PLA	CE	LF	2984	\$16.00	\$	47,744.00	
PLACE	REM	OVALS - EXISTING 10" WASTEWATER LINE -						
DEPTH	PLA	CE	LF	1738	\$18.00	\$	31,284.00	
DEPTH	DEF	TH	EA	15	\$2,400.00	\$	36,000.00	13
POTITIOLING AT WASTEWATER SERVICE TIE IN LOCATIONS   EA   22   \$2,400.00   \$   52,			EA	6	\$1,200.00	\$	7,200.00	1919
TEMPORARY 10" WASTEWATER TIE-IN TO	POT	HOLING AT WASTEWATER SERVICE TIE IN	5401	22		,	52,800.00	
ROPOSED 6" WASTEWATER LINE   EA   1   \$2,000,00   \$   2   2	TEN	IPORARY 10° WASTEWATER TIF-IN TO					000000	174.6
ROPOSED 6" WASTEWATER LINE   EA   1   \$2,000,00   \$   2   2	TEN	PPSOED 20° AT WWTP PPORARY 4° WASTEWATER TIE-IN TO	EA	1		1	6,000.00	400
WATER IMPROVEMENT   C   690   \$54.00   \$ 37	PRO	POSED 8* WASTEWATER LINE	EA	1			2,000.00 1,681,332.00	
PAVEMENT   LF   690   \$54.00   \$ 37	WA	TER IMPROVEMENTS			TOODIGIAL	Ť	1,001,002.00	
6° CERTA-LOK R-JIB G900 R-18 PVC WATER LINE	PAV	EMENT	LF	690	\$54.00	\$	37,260.00	
G* C300 DR-18 PVC WATER LINE UNDER PAVEMENT G* C3FTALOK RJIB C300 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 10* STEEL CASING BY OPEN CUT G* C3FTALOK RJIB C300 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY BORE  B* C3FTALOK RJIB C300 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY BORE  LF 192 \$360.00 \$ 13  B* C3FTALOK RJIB C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT B* C3FTALOK RJIB C300 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14* STEEL CASING BY OPEN CUT B* C3FTALOK RJIB C300 DR-18 PVC WATER LINE WITH 14* STEEL CASING BY BORE UNDER PAVEMENT WITH 14* STEEL CASING BY PAVEMENT LF 10* C300 DR-18 PVC WATER LINE WINDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE NOT UNDER PAVEMENT LF 10* C300 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL WITH 10* STEEL CASING BY OPEN CUT, ALL WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C300 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING BY OPEN CUT, ALL LF 10* C400 DR-18 PVC WATER LINE WITH 10* STEEL CASING	6. C	ERTA-LOK RJIB C900 DR-18 PVC WATER LINE						100
PAVEMENT   LF   185   \$66.00   \$ 12			LF	100	\$66.00	\$	6,600.00	
UNDER PAVEMENT WITH 10' STEEL CASING BY OPEN CUT	PAV	/EMENT	LF	185	\$66.00	\$	12,210.00	
OPEN CUT	6ª C	ERTA-LOK RJIB C900 DR-18 PVC WATER LINE DER PAVEMENT WITH 10° STEEL CASING BY						
6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 10" STEEL CASING BY BORE  8" C900 DR-18 PVC WATER LINE NOT UNDER PVMT B" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT B" GERTA-LOK RJIB C900 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14" STEEL CASING BY OPEN CUT B" GERTA-LOK RJIB C900 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14" STEEL CASING BY OPEN CUT B" GERTA-LOK RJIB C900 DR-18 PVC WATER LINE WITH 14" STEEL CASING BY BORE UT C900 DR-18 PVC WATER LINE UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT UT C900 DR-18 PVC WATER LINE UNTH 16" STEEL CASING BY OPEN CUT, ALL UT TERNCH TYPES UT TERNCH TYPES UT THE WATER LINE UT THE				0.0	£160.00		13,760.00	
B** G900 DR-18 PVC WATER LINE NOT UNDER PVMT  B** GERTA-LOK RJIB G900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT  B** GERTA-LOK RJIB G900 DR-18 PVC WATER LINE UNDER PAVEMENT  B** GERTA-LOK RJIB G900 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14** STEEL CASING BY OPEN CUIT  B** GERTA-LOK RJIB G900 DR-18 PVC WATER LINE UNDER PAVEMENT  UNTH 14** STEEL CASING BY OPEN CUIT  B** GERTA-LOK RJIB G900 DR-18 PVC WATER LINE  UNTH 14** STEEL CASING BY BORE  LF  B** 420.00  S** 26** 10** G900 DR-18 PVC WATER LINE UNDER PAVEMENT  12** G900 DR-18 PVC WATER LINE NOT UNDER  LF  B** 3228  S90.00  S** 26**  S** 590.00  S** 690.00  S**			LF	66	\$100.00	1	15,700.00	
B** CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT  UNDER PAVEMENT  UNDER PAVEMENT  UNDER PAVEMENT  UNDER PAVEMENT WITH 14* STEEL CASING BY OPEN COUT  O			LF	192	\$360.00	\$	69,120.00	
8" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT 1" CERTA-LOK RJB C900 DR-18 PVC WATER LINE UNDER PAVEMENT WITH 14" STEEL CASING BY OPEN CUT 1" CERTA-LOK RJB C900 DR-18 PVC WATER LINE WITH 14" STEEL CASING BY BORE ID" C900 DR-18 PVC WATER LINE ID" C900 DR-18 PVC WATER LINE PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" CERTA-LOK RJB C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE NOT UNDER PAVEMENT ID" C900 DR-18 PVC WATER LINE WITH 18" STEEL CASING BY OPEN CUT, ALL WITH 18" STEEL CASING BY OPEN CUT, ALL IF 669 \$312.00 \$ 200	8° C	900 DR-18 PVC WATER LINE NOT UNDER PVMT	1F	47	\$66.00	s	3,102.00	
B** CERTA-LOK RJB C900 DR-16 PVC WATER LINE UNDER PAVEMENT   LF   16   \$200.00   \$ 3   3   3   3   3   3   3   3   3			1000000	1		100	was the transfer	100
UNIDER PAVEMENT WITH 14" STEEL CASING BY   LF   16	8" (	ERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF	39	\$84.00	*	3,276.00	
6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	UNI	DER PAVEMENT WITH 14" STEEL CASING BY	LF	16	\$200.00	\$	3,200.00	
10' C990 OR-16 PVC WATER LINE UNDER	8* 0	CERTA-LOK RJIB C900 DR-18 PVC WATER LINE					26,460.00	
12 C990 OR-18 PVC WATER LINE NOT UNDER	10"	C900 DR-18 PVC WATER LINE UNDER	193300	8.53	25-27/2021		1-2027-7-20	11/1/
PAVEMENT	12°	C900 DR-18 PVC WATER LINE NOT UNDER					8,832.00	100
NOT UNDER PAVEMENT	PA	/EMENT	LF	3228	\$90.00	\$	290,520.00	2
PAVEMENT   LF   391   \$102.00   \$ 35   12" CERTALOR RJIB C900 DR-18 PVC WATER LINE   WITH 16" STEEL CASING BY OPEN CUT, ALL   LF   669   \$312.00   \$ 200   \$	NO	T UNDER PAVEMENT	LF	559	\$162.00	\$	90,558.00	)
12" CERTALOK RJIB C900 DR-18 PVC WATER LINE   WITH 16" STEEL CASING BY OPEN CUT, ALL   LF   669   \$312.00   \$ 200	PA	VEMENT	LF	391	\$102.00	\$	39,882.00	0
* TRENCH TYPES LF   669   \$312.00   \$ 208	12"	CERTA-LOK RJIB C900 DR-18 PVC WATER LINE						
	<ul> <li>TRI</li> </ul>	ENCH TYPES	LF	669	\$312.00	\$	208,728.00	0
	• WI	TH 20" STEEL CASING BY BORE				\$	153,900.00	
* 6" GATE VALVE EA 11 \$2,400.00 \$ 26	• 6 6	SATE VALVE			\$2,400.00 \$3,000.00		26,400.00 12,000.00	
• 10" GATE VALVE EA 1 \$3,600.00 \$	* 10°	GATE VALVE	EA	1	\$3,600.00	\$	3,600.00	0
* 12" GATE VALVE EA 27 \$4,200.00 \$ 113 * FINAL VALVE ADJUSTMENT - 2" GATE VALVES EA 1 \$250.00 \$							113,400.00 250.00	

Printed: 2/1/2021

159	199_SH95_Cost Estimate_Attachment At							Line  tem /  tem Description	Unit	Quantity	\$/Unit	Total	
	Line Item / Item Description FINAL VALVE ADJUSTMENT - 6* GATE VALVES	Unit EA	Quantity 14	\$/Unit \$500.00	\$ 7,	,000,000		FINAL VALVE ADJUSTMENT - 6" GATE VALVES FINAL VALVE ADJUSTMENT - 10" GATE VALVES	EA	14	\$500.00		1,000.00
	FINAL VALVE ADJUSTMENT - 10° GATE VALVES	EA	1	\$1,000.00	\$ 1,	,000.00		FINAL VALVE ADJUSTMENT - 12" GATE VALVES	EA	22	\$1,000.00 \$1,500.00		3,000.00
	FINAL VALVE ADJUSTMENT - 12" GATE VALVES 20" C900 DR-18 (BLUE) PVC CASING AT MANHOLES	EA	22	\$1,500.00	10 000	00.000,	8.	20° C900 DR-18 (BLUE) PVC CASING AT MANHOLES	EA LF	162	\$180.00	\$ 2	9,160.00
	BY OPEN CUT FIRE HYDRANT ASSEMBLY	LF EA	162 10		\$ 72	,160.00	8	BY OPEN CUT FIRE HYDRANT ASSEMBLY FIRE HYDRANT ASSEMBLY (LONG LEAD)	EA EA	10	\$7,200.00 \$8,200.00	\$ 7 \$ 3	2,000.00 2,800.00
	FIRE HYDRANT ASSEMBLY (LONG LEAD) TRACER WIRE RISERS (less 1 elective betterment)	EA	4	40,200,00		00.008		TRACER WIRE RISERS	EA	24	\$300,00	\$	7,200.00
0.00000	2" COMBINATION AIR RELEASE/VACUUM VALVE	EA	23 3	\$300.00 \$6,000.00		3,000.00	٥.	2" COMBINATION AIR RELEASE/VACUUM VALVE	EA	3	\$6,000.00	\$ 1	8,000.00
•	3/4" LONG SERVICE WITH CONNECTION TO EX 3/4"	EA EA	2	\$3,000.00		6,000.00		3/4" LONG SERVICE WITH CONNECTION TO EX 3/4" METER, ALL TRENCH TYPES	EA	2	\$3,000.00	\$	6,000.00
2010/201	METER, ALL TRENCH TYPES 3/4" SHORT SERVICE WITH CONNECTION TO EX	EA	3	\$1,800.00		5,400.00		3/4" SHORT SERVICE WITH CONNECTION TO EX	EA	3	\$1,800.00	\$	5,400.00
2	3/4" METER, ALL TRENCH TYPES  1" LONG SERVICE WITH CONNECTION TO EX 3/4"  METER, ALL TRENCH TYPES	EA	9	\$2,160.00	s 19	9,440.00		1" LONG SERVICE WITH CONNECTION TO EX 3/4" METER, ALL TRENCH TYPES 1" SHORT SERVICE WITH CONNECTION TO EX 3/4"	EA	9	\$2,160.00		9,440.00
	1" SHORT SERVICE WITH CONNECTION TO EX 3/4"	EA	6	\$2,160.00	\$ 12	2,960.00		METER, ALL TRENCH TYPES  1" LONG SERVICE WITH NEW 3/4" METER, ALL	EA	6	\$2,160.00	\$ 1	2,960.00
	1" LONG SERVICE WITH NEW 3/4" METER, ALL	EA	2	\$3,600.00	\$	7,200.00		TRENCH TYPES  1" SHORT SERVICE WITH NEW 3/4" METER, ALL	EA	2	\$3,600.00	\$	7,200.00
1	1" SHORT SERVICE WITH NEW 3/4" METER, ALL TRENCH TYPES	EA	4	\$3,600.00	\$ 1	4,400.00		TRENCH TYPES	EA	4	\$3,600.00	,	14,400.00
No.	1" LONG SERVICE WITH CONNECTION TO EXISTING 3/4" SERVICE LINE, ALL TRENCH TYPES	EA	1	\$2,160.00	\$	2,160.00		EXISTING 3/4" SERVICE LINE, ALL TRENCH TYPES	EA	1	\$2,160.00	\$	2,160.00
d.	1" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH 3" STEEL CASING BY OPEN CUT	LF	190	\$100.00	s 1	9,000.00	3	1" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH 3" STEEL CASING BY OPEN CUT 1" HDPE SDR-9 TUBING WITH 3" STEEL CASING BY	LF	190	\$100.00		19,000.00
	1" HDPE SDR-9 TUBING WITH 3" STEEL CASING BY	LF	408	\$150.00	\$ 6	1,200.00	8	BORE 2' LONG SERVICE WITH CONNECTION TO EX 1.5"	LF	408	\$150.00	\$	61,200.00
	2" LONG SERVICE WITH CONNECTION TO EX 1.5" METER, ALL TRENCH TYPES	EA	1	\$3,960.00	\$	3,960.00		METER, ALL TRENCH TYPES 2" LONG SERVICE WITH TWO NEW 3/4" METERS.	EA	1	\$3,960.00		3,960.00 5,400.00
	2" LONG SERVICE WITH TWO NEW 3/4" METERS, ALL TRENCH TYPES	EA	1	\$5,400.00	\$	5,400.00		ALL TRENCH TYPES  2" LONG SERVICE WITH CONNECTION TO	EA	1	\$5,400.00	,	5,400,00
	2" LONG SERVICE WITH CONNECTION TO EXISTING 2" SERVICE LINE, ALL TRENCH TYPES	EA	1	\$4,800.00	\$	4,800.00		EXISTING 2" SERVICE LINE, ALL TRENCH TYPES	EA	1	\$4,800.00	\$	4,800.00
The same	2" SHORT SERVICE WITH CONNECTION TO EX 2" METER, ALL TRENCH TYPES	EA	1	\$4,800.00	s	4,800.00		2" SHORT SERVICE WITH CONNECTION TO EX 2" METER, ALL TRENCH TYPES 2" HOPE SDR-9 TUBING, UNDER PAVEMENT WITH	EA	1	\$4,800.00	\$	4,800.00
	2" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH	LF	46	\$140.00	\$	6,440.00		2" HDPE SDR-9 TUBING, UNDER PAVEMENT WITH 4" STEEL CASING BY OPEN CUT 2" HDPE SDR-9 TUBING WITH 4" STEEL CASING BY	LF	46	\$140.00	\$	6,440.00
	2* HDPE SDR-9 TUBING WITH 4* STEEL CASING BY	LF	112	\$180.00	s :	20,160.00	器.	BORE  2* GALVANIZED STEEL VENT PIPE FOR RAILROAD	LF	112	\$180.00	\$	20,160.00
1.	2' GALVANIZED STEEL VENT PIPE FOR RAILROAD BORE	EA	4	\$2,400.00 \$2,400.00	\$	9,600.00 4,800.00		BORE THE IN TO EXISTING 2" WATER LINE	EA EA	2	\$2,400.00 \$2,400.00	\$	9,600.00 4,800.00
:	TIE IN TO EXISTING 2" WATER LINE TIE IN TO EXISTING 6" WATER LINE	EA EA	8	\$3,000.00 \$3,600.00		24,000.00 10,800.00		TIE IN TO EXISTING 6" WATER LINE TIE IN TO EXISTING 8" WATER LINE	EA EA	3	\$3,000.00 \$3,600.00	\$	24,000.00 10,800.00
ŀ	TIE IN TO EXISTING 8" WATER LINE TIE IN TO EXISTING 12" WATER LINE	EA EA	2	\$4,200.00	\$	8,400.00	韻:	TIE IN TO EXISTING 12" WATER LINE TRENCH PROTECTION	EA	2	\$4,200.00	\$	19,014.00
	TRENCH PROTECTION (less 59' elective betterment)	LF	6279 10	\$3.00 \$12.00	\$	18,837.00 120.00		GRAVEL PAVEMENT REPAIR (LINE)	LF LF	6338 10	\$3.00 \$12.00	\$	120.00
	GRAVEL PAVEMENT REPAIR (LINE) ASPHALT PAVEMENT REPAIR (LINES) (less 13'	LF LF	1185	\$36.00	s	42,660.00		ASPHALT PAVEMENT REPAIR (LINES)	LF	1198 243	\$36.00 \$120.00	\$	43,128.00 29,160.00
ı	elective betterment) ASPHALT PAVEMENT REPAIR (BORE PITS) CONCRETE PAVEMENT REPAIR (LINES)	LF LF	243 132	\$120.00 \$120.00		29,160.00 15,840.00		ASPHALT PAVEMENT REPAIR (BORE PITS) CONCRETE PAVEMENT REPAIR (LINES)	LF LF EA	132	\$120.00 \$120.00	\$	15,840.00 6,600.00
l	REMOVALS - EXISTING WATER VALVES REMOVALS - EXISTING METERS AND METER	EA	11	\$600.00	\$	6,600.00		REMOVALS - EXISTING WATER VALVES REMOVALS - EXISTING METERS AND METER	EA	8	\$900.00	s	7,200.00
Ì	BOXES REMOVALS - EXISTING METERS AND METERS BOXES REMOVALS - EXISTING FIRE HYDRANTS	EA EA	8 7	\$900.00	\$	7,200.00 12,600.00		REMOVALS - EXISTING FIRE HYDRANTS	EA	7	\$1,800.00	\$	12,600.00
ı	REMOVALS - EXISTING WATER LINE - CUT, PLUG AND ABANDON IN PLACE WITH NO PRESSURE							REMOVALS - EXISTING WATER LINE - CUT, PLUG AND ABANDON IN PLACE WITH NO PRESSURE	LF	1525	\$8.00	\$	12,200.00
	GROUTING  REMOVALS - EXISTING 6" AND UNDER WATER LIN	LF VE	1525	\$8.00	\$	12,200.00		GROUTING REMOVALS - EXISTING 6" AND UNDER WATER LINI - CUT, PRESSURE GROUT, PLUG AND ABANDON IN					400 400 00
	PLACE	IN LF	7317	\$14.00	\$	102,438.00	1	PLACE  REMOVALS - EXISTING 8" WATER LINE - CUT,	LF	7317	\$14.00	\$	102,438.00
	REMOVALS - EXISTING 8" WATER LINE - CUT, PRESSURE GROUT, PLUG AND ABANDON IN	LF	30	\$16.00	,	480.00		PRESSURE GROUT, PLUG AND ABANDON IN	LF	30	\$16.00	\$	480.00
ı	PLACE TEMPORARY - 6* CERTA-LOK RJIB C900 DR-18 PV		545	\$66.00	s	35,970.00		TEMPORARY - 6" CERTA-LOK RJIB C900 DR-18 PV	LF	545	\$66.00	\$	35,970.00
ı	* WATER LINE TEMPORARY - UNCASED BORES INCLUDING 6*	Li	010	400.00				TEMPORARY - UNCASED BORES INCLUDING 6" CERTA-LOK RJIB C900 DR-18 PVC WATER LINE	LF	150	\$138.00	s	20,700.00
I	CERTA-LOK RJIB C900 DR-18 PVC WATER LINE  TEMPORARY - 6" GATE VALVE	LF EA	150	\$138.00 \$2,400.00	\$ \$	20,700.00 4,800.00		* TEMPORARY - 6* GATE VALVE	EA	2	\$2,400.0		4,800.00
	TEMPORARY - FIRE HYDRANT ASSEMBLY  • RELOCATIONS	EA	3	\$7,200.00	20 100	21,600.00		TEMPORARY - FIRE HYDRANT ASSEMBLY  RELOCATIONS TEMPORARY - 6" CERTA-LOK RJIB C900 DR-18 PV	EA C	3	\$7,200.0	0 \$	21,600.00
	TEMPORARY - 6" CERTA-LOK RJIB C900 DR-18 P WATER LINE WITH 10" STEEL CASING BY BORE	VC		******		16 200 00		WATER LINE WITH 10" STEEL CASING BY BORE	LF	45	\$360.00	\$	16,200.00
	TEMPORARY - TIE IN TO EXISTING 6" WATER LIN	E LF	45	\$360.00		9,000.00		TEMPORARY - TIE IN TO EXISTING 6" WATER LINE	EA	3	\$3,000.0	0 \$	9,000.00
	TEMPORARY - 3/4" SERVICE WITH CONNECTION	I EA	3	\$3,000.0	-			TEMPORARY - 3/4" SERVICE WITH CONNECTION TO EX 3/4" METER, ALL TRENCH TYPES	74 <u>4</u> 25	_	£2.000.0		21,000.00
	TO EX 3/4" METER, ALL TRENCH TYPES	EA	7	\$3,000.0		21,000.00	14	TEMPORARY - 1" SERVICE WITH CONNECTION TO	EA EA	7	\$3,000.0	100	3,600.00
	TEMPORARY - 1" SERVICE WITH CONNECTION T EX 1" SERVICE LINE, ALL TRENCH TYPES	EA	1	\$3,600.0 SUBTOTA	AL \$ 1	3,600.00 ,930,519.00		EX 1" SERVICE LINE, ALL TRENCH TYPES	I EA	SUBTO	SUBTOT	AL \$	1,955,788.00 1,681,332.00
			SUBTO	TAL WASTEWA	TER \$ 1	,649,928.00 ,930,519.00					TAL WATER	\$	1,955,788.00
				TAL W+WW		3,580,447.00			02.40		TAL W+WW	\$	3,637,120.00
	Materials TO BE REIMBURSED TO: Line Item / Item Description	City of S	ellimbimi			Total	М	aterials TO BE REIMBURSED TO: Line Item / Item Description	City of S Unit	Quant	ity S/Unit		Total
	INTERNAL MATERIALS - documented with Certified	Ledger at Pa	yment	SUBTOTAL	L S			INTERNAL MATERIALS - documented with Certified  EXTERNALLY ACQUIRED MATERIALS - documented			SUBTOTA	L S	1000000
	EXTERNALLY ACQUIRED MATERIALS - document	led with Invok	es and/or Ch		The state of	MARKET S		EXTERNALLY ACQUIRED MATERIALS - documente	THUI HIVOR	3 2. 20, 0	SUBTOTA	1 \$	
		MATER	IALS SUBTO	TALES	0.5 (2.5)	3,580,447.00	5	Indicated items are being tracked for BUY AMERICA	MATERI	ALS SUBTO	TAL \$	using Form	3,637,120,00 n 1818 and all
	* Indicated items are being tracked for BUY AMERIC.	A COMPLIAN	ICE and will	oe documented u	sing Form	1818 and all				Smithville	Do Goodineikeo	4	
1	Labor TO BE REIMBURSED TO: Line Item / Item Description	City of	Smithville t Quan	tity \$/Unit	Tollow	Total		abor TO BE REIMBURSED TO: Line Item / Item Description	Uni	l Quan	tity \$/Uni		Total
	Internal Labor Costs - documented with Certified Le	dger at paym	ent	SUBTO	A CHARLES	The state of the s		Internal Labor Costs - documented with Certified Led			SUBTO	TAL \$	
	External Labor Costs - documented with invoices an	d / or checks	7.	SUBTOTA	T S			External Labor Costs - documented with invoices and	, or checks		SUBTOTA	T 8	
		14	BOR SUBTO	4					LAI	OR SUBTO	TAL \$		
		O LOS NOT				A VISCO		Engineering/Inspection/Survey TO BE REIMBURSED IN TX	DOTCONT	RACT - IOIA	T BID (Railroa)	ROW Coo	rdination)
	Engineering/Inspection/Survey TO BE REIMBURSED IN	TXDOT CON	ITRACT - JO					Line Item / Item Description	Un E/	400	IIII5)		10,000.00
	Insurance Survey Work Plan for Survey Monitoring - RPLS	E.	A 2	\$5,000 8 \$120.0	00 \$	10,000.0 2,160.0	0	Insurance Survey Work Plan for Survey Monitoring - RPLS	H	7 1	8 \$120.	00 \$	2,160.00 1,620.00
	Survey Work Plan for Survey Monitoring - Re-LS  Survey Work Plan for Survey Monitoring - Technicia  Survey Monitoring - 2 Man Crew Time		R 1	8 \$90.0 00 \$135.0	00 \$	1,620.0 54,000.0	0	Survey Work Plan for Survey Monitoring - Technician Survey Monitoring - 2 Man Crew Time	H	R 40	00 \$135	00 \$	54,000,00 4,800,00
١	Survey Monitoring - 2 Man Grew Time Survey Monitoring - RPLS Survey Monitoring - Technician	H	R 4	0 \$120.0 0 \$90.0	00 \$	4,800.0 3,600.0	00	Survey Monitoring - RPLS Survey Monitoring - Technician	H	R 4	0 \$90.	00 \$	3,600.00
	Flagging (per Day)  UP Assigned 3rd Party Observer (per Day)	E	A 4	0 \$1,500	0.00 \$	60,000.0 80,000.0	00	Flagging (per Day) UP Assigned 3rd Party Observer (per Day)	E.			0.00 \$	80,000.00 \$216,180.00
	OP Assigned Sid Party Observer (per Day)			TOTA		216,180.00		5924			101		

Line Item / Item Description	Unit	Quantity	\$/Unit	Total	Line Item / Item Description Unit Quantity \$/Unit Total
neering/Inspection/Administration TO BE REIMBURSED 1	TO:		City of Smithville	Total	Line Item / Item Description Unit Quantity S/Unit Total
Line Item / Item Description	Unit	Quantity for this proje	\$/Unit	Total	INTERNAL ADMINISTRATION - Cost associated with securing funding for this project
INTERNAL ADMINISTRATION - Cost associated with se- City Manager	curing runging HR	9.5	\$98.37 \$	934.52	City Manager HR 9,5 \$98.37 \$ 959.36
City Manager Public Works Director	HR	3	\$84.06	252.18	Public Works Director 27 902 93
Grant Administration	HR	579.5	\$48.15 \$	27,902.93	Grant Administration HR 5/9.5 \$46.15 \$ 27,002.05 SUBTOTAL \$ 29,089.62
		COLUMN DOCUMENT	SUBTOTAL \$	29,089.62	INTERNAL ADMINISTRATION - Costs prior to execution of agreement
INTERNAL ADMINISTRATION - Costs prior to execution	HR	73.5	\$98.37	7,230.20	City Manager HR 73.5 \$98.37 \$ 7,250.20
City Manager Public Works Director	HR	55	\$84.06 \$	4,623.30	Public Works Director
Utility Personnel	HR	81	\$46.69 \$	3,781.89	Utiny Personnel HR 7 \$39.64 \$ 277.48
Clerical (City Secretary)	HR	7 24.5	\$39.64 \$ \$48.15 \$	277.48 1,179.68	HR 24.5 \$48.15 \$ 1,179.68
Grant Administration	HR HR	40	\$50.00 \$	2,000.00	Equipment Rate HR 40 \$50.00 \$ 2,000.00
Equipment Rate	TIIX	-10	SUBTOTAL \$	19,092.54	
INTERNAL ADMINISTRATION - Estimated Costs				NA CONTRACTOR	INTERNAL ADMINISTRATION - Estimated Costs  City Managery HR 80 \$98.37 \$ 7,869.60
City Manager	HR	80	\$98.37	7,869.60 792.80	Clymalager Chy Secretary HR 20 \$39.64 \$ 792.80
Clerical (City Secretary)	HR	20	\$39.64 \$ \$54.50 \$	2,180.00	Finance Director HR 40 \$54.50 \$ 2,180.00
Finance Director	HR	40	SUBTOTAL \$	10,842.40	SUBIOTAL \$ 10,642.40
INTERNAL SURVEY / LANDMAN					INTERNAL SURVEY / LANDMAN HR 0 \$0.00 \$
INTERIOR CORVETT DATABASE	HR	0	\$0.00		HR 0 \$0.00 \$
	HR	0	\$0.00		INTERNAL INSPECTION - Estimated Costs
INTERNAL INSPECTION - Estimated Costs	HR	400	\$84.06	33,624.00	Public Works Director HR 400 \$54.05 \$ 50,000 \$
Public Works Director	HR	400	\$46.69 \$	18,676.00	Utility Personnel HR 400 \$46.69 \$ 18,676.00 SUBTOTAL \$ 52,300.00
Utility Personnel	- 1115	100	SUBTOTAL \$	52,300.00	SUBIDIAL \$ 52,300.00
		Kadinya	TOTAL \$	111,324.56	INTERNAL ENGINEERING / SURVEY / INSPECTION / ADMINISTRATION OVERHEAD
INTERNAL ENGINEERING / SURVEY / INSPECTION /	ADMINISTRA	ATION OVE	RHEAD	SCHOOL STATE	PERCENTAGE OF INTERNAL COSTS 79 0.00%
PERCENTAGE OF INTERNAL COSTS	70		0.00% \$	111,324.56	INTERNAL COSTS SUBTOTAL \$ 111,324.56
			SIS SUBIOIAL S	111,024.00	BEFCO ENGINEERING - Cost documented with INVOICES and / or CHECKS
BEFCO ENGINEERING - Cost documented with INVOI	HR	772.5	\$120.00 \$	92,700.00	Design Engineer / PE HR //2.5 \$120.00 \$ 52,700.00
Design Engineer / PE RPLS	HR	66.5	\$120.00 \$	7,980.00	RPLS 107 0745 100 00 \$ 60.705.00
Designer/Technician	HR	674.5	\$90.00 \$	60,705.00	Designer/Technician 112 57 \$135.00 \$ 7.695.00
Two-Man Survey Crew	HR	57	\$135.00 \$	7,695.00	Normal Survey Clear   Clearical Valdministrative
ClericaVAdministrative	HR	10	\$50.00 \$ \$15.000.00 \$		Delical Dermit Submissions EA 4 \$15,000.00 \$ 60,000.00
Railroad Permit Submissions	EA	4	SUBTOTAL \$		SUBTOTAL \$ 225,000.00
BEFCO ENGINEERING Estimate - Cost documented v	with INVOICE	S and / or Ch	IECKS (Estimated C		BEFCO ENGINEERING Estimate - Cost documented with INVOICES and / or CHECKS (Estimated Costs)  Design Engineer (DE (Construction Phase Sanges) HR 1000 \$120.00 \$ 120,000.00
Design Engineer / PE (Construction Phase Services)	HR	1000	\$120.00 \$	120,000.00	Design Engineer / PE (Construction Phase Services) HR 1000 \$120,00 \$ 120,000.00
Designer/Technician (Construction)	HR	582	\$90.00 \$		Designer/Technican (Construction)  HR 20 \$50.00 \$ 1,000.00
Clerical/Administrative (Partial Payments)	HR	20	\$50.00 \$ SUBTOTAL \$	1,000.00	SUBTOTAL \$ 173,380.00
			SUBTOTAL S		TOTAL \$ 402,960.00
TANGLIA CURINGY (I ANDUAN			TOTAL IS	102,003.00	EXTERNAL SURVEY/LANDMAN  HR 0 \$0.00 \$ -
EXTERNAL SURVEY / LANDMAN Two-Man Survey Crew	HR	0	\$0.00		Two-Man Survey Crew HR 0 \$0.00 \$ -  SUBTOTAL \$ -
I MO-man out to y ole w			SUBTOTAL		
EXTERNAL INSPECTION	CHARLE				EXTERNAL INSPECTION  Inspector  HR 0 \$120.00 \$
Inspector	HR	0	\$120.00 \$175.00		Inspector Fynerses per Day EA \$175.00 \$
Inspector Expenses per Day	EA	Paris and the	SUBTOTAL S		SUBTOTAL \$ -
		STATE AND	SOBIOINE L	A STATE OF THE STATE OF	PERMITS
PERMITS			121		EAST AND ADDRESS OF THE PROPERTY OF THE PROPER
			0	(A) FULL SE	SUBTOTAL \$ -
		e de la companya de l	SUBTOTAL	•	
				514,284.56	Engineering / Administration / Inspection SUBTOTAL \$ 514,284.5
Engineering / Administra	ation / Inspecti	on SUBTOTA	AL S	514,204.56	
IMMARY:	NO ASSESSED.	Valley Brown	1.055000000		SUMMARY: TOTAL PROJECT COST \$ 4,367,584.5
JMMART.		TOTAL	PROJECT COST	\$ 4,310,911.56	
					AMOUNT PAYABLE IN TXDOT CONTRACT \$ 3,853,300.0
	AMOUNT PA	YABLE IN TO	KDOT CONTRACT	\$ 3,796,627.00	
	6000	DEMANICA	ARI E TO LITH IT	\$ 514,284.56	GROSS REIMBURSABLE TO UTILITY \$ 514,284.5
	GROSS	KEIMBURS	ABLE TO UTILITY	V 014,204.00	
			CONTRACTOR OF THE PARTY OF THE	\$ 111,324.56	Utility Internal Costs to be Reimbursed \$ 111,324.5
	LINE I	nternal Costs	to be Reimbursed		
	Utility I	nternal Costs	to be Reimbursed	CHARLES AND A STATE OF	LINE External Costs to be Raimburged \$ 402,980.0
			to be Reimbursed	Section Assessment	Utility External Costs to be Reimbursed \$ 402,960.0
	Utility <u>E</u>	xternal Costs	to be Reimbursed	\$ 402,960.00	
AMOUNT DUE TO TXU	Utility <u>E</u>	xternal Costs	to be Reimbursed	\$ 402,960.00	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5
AMOUNT DUE TO TXC	Utility <u>E</u>	xternal Costs	to be Reimbursed	\$ 402,960.00 \$ -	
AMOUNT DUE TO TXE	Utility <u>E</u>	xternal Costs	to be Reimbursed	\$ 402,960.00 \$ -	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5  SALVAGE and or Depreciation CREDIT \$ -
	Utility <u>E</u> DOT VIA ADV	external Costs  ANCE FUND  GE and or De	to be Reimbursed	\$ 402,960,000 \$ -	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5
AMOUNT DUE TO TXI ELIGIBILITY RA	Utility <u>E</u> DOT VIA ADV	external Costs  ANCE FUND  GE and or De	to be Reimbursed  ING AGREEMENT  preciation CREDIT  Ratio Deduction	\$ 402,960.00 \$ - \$ -	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5  SALVAGE and or Depreciation CREDIT \$  ELIGIBILITY RATIO 100.00% Ratio Deduction \$
	Utility E DOT VIA ADVA SALVA	external Costs  ANGE FUND  GE and or De	to be Reimbursed	\$ 402,960.00 \$ - \$ -	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5  SALVAGE and or Depreciation CREDIT \$ -  ELIGIBILITY RATIO 100.00% Ratio Deduction \$ 6.685.1
ELIGIBILITY RA	Utility EDOT VIA ADV. SALVAGE TIO 100.009	ANCE FUND GE and or Do	to be Reimbursed  ING AGREEMENT  preciation CREDIT  Ratio Deduction	\$ 402,960.00 \$ - \$ - \$ -	AMOUNT DUE TO TXDOT VIA ADVANCE FUNDING AGREEMENT \$ 50,092.5  SALVAGE and or Depreciation CREDIT \$ -  ELIGIBILITY RATIO 100.00% Ratio Deduction \$ -  BETTERMENT RATIO 1.30% Ratio Deduction \$ 6.685.

**Betterment Ratio** 

ر without betterment.	\$4,367,584.56	\$4,310,911.56	\$56,673.00	1.30%	
BETTERMENT RATIO CALCULATOR  Two estimates are required to calculate betterment. One with, and one without betterment.  Please attach both estimates.	The total estimated cost of the project INCLUDING BETTERMENT	The total estimated cost of the project NOT including BETTERMENT	THE AMOUNT OF BETTERMENT	The BETTERMENT RATIO IS:	

U-15999\_SH95\_Cost Estimate\_12.18.20.xlsx

SH 95 WASTEWATER FORCED BELLEKWIEN I JABOUATION		TOTOT CTATTON BANGE	WASTEWATER STATION RANGE	EXISTING LINE SIZE	PROPOSED LINE SIZE	LINEAR FEET OF	Austin District Review	истиристиру.
SHEET NUMBER 34/49	SI REE I	434+00 - 434+21	Negative 0+13 - 2+00 (SL B)	10" (material unknown)	Base Bid: 20" PVC, Alt. Bid Equivalent: 24" HDPE	213		In order to maximize pipe depth at the upstream end of the project, the proposed wustewater line is required to be trun at TCCC minimum pipe slope per TCCC chapter 217 Depth of Christian Christia
34/60	SH 95\FM 2571	434+45 - 437+74	0+00 - 3+18.02 (\$1.81)	6" (material unknown)	8" PVC	318.02	Elective	Per pipe segment sizing chart, 8" PVC at minimum slope exceeds peak flows of 180 GPM and 6" PvC.would be adequate size and accommodate peak flows; however, due to this line serving commercial development an 8" is recommended due to the characteristics of commercial wastewater potentially containing larger soilds.
95/56	SH 95	432+12 - 434+00	2+00 - 3+86.51 (\$1.8)	10" (material unknown)	Bose Bid: 20" PVC; Alt. Bid Equivalent 24" HDPE	186.51	Forced.	in order to maximize pipe deepth at the upstream and of the project, the proposed wastware lines it extenses to be used.  Totz minimum pipe along a reTCEC chapter 212 Design Citteria for Domestic Wastwater Systems Table C.2. The minimum along the a 20° pipe capacity exceeds peak flows of 1286.3 GPM, See pipe segment stifning along the a 20° pipe capacity exceeds peak flows of 1286.3 GPM, See pipe segment stifning that The next remains pipe size 128.8 Which has a sepacity of 1501 GPM which will not accommodate seak flows. In the event this pipe material is not available, an equivalent HDPE material was about a variable by the surrange of the properties a pipe capacity of 1501 GPM which will not accommodate by 13 While provides a pipe capacity that exceeds peak flows.
35/50	SH 95	430+50 - 432+12	3+86.51 - 5+45 (51.8)	10" (material unknown)	12" PVC	158.49	Forced	in order to manifesting pie depth state bustness and of the project, the proposes varieward in the states are been interested to the project, or of the project, and proposes varieward in the Ca. The minimum pies dope extra TCQ chapter 217 beign Citerial for Domestic Wasteward Spiscow. Table Ca. The minimum slope for a 12" to 0.20%, At this slope, the 12" pile capacity exceeds pask flows of 565.5 GPM, See pile segment sting what TCQ minimum project for a 22" to 0.20%, At this slope, the 12" pile capacity exceeds pask flows of 565.5 GPM, See pile segment sting what TCQ minimum project for 22% which will not a second or of 25% which will not 25% which will not 25% which will not 25% will not 25% which will not 25%
36/51	S6 HS	427~00 - 480+50	(8.12) 68+8 - 21+5	10" (material unknown)	12" PVC	344	Forced	in order to maintain by the depth at the upsteem end or the project, we the projects were assessment that the C.D. The minimum rEEQ minimum pipe slope per PLEQ chapter 2.17 beign clearly for being the very state of the project of t
37/52	SH 95	423+50 - 427+00	8+89-12+39 (51. B)	10" (material unknown)	12" PVC	350	Forced	in order to maximize tipic depth at the upstream end of the project, the proposed westewater line is required to be run at TCEQ minimum pipe alone per TCEQ chapter 227 begin criteria for homestic vistaments respectively. The immum pipe is one per per 227 begin criteria for homestic vistaments respectively and the immum dispective a 127 be 1020%. At this sloop, the 127 pipe capacity of 485 GPM at minimum slope of 0.25% which will accommodate peak. The necessarile repressible 120 which has a capacity of 485 GPM at minimum slope of 0.25% which will accommodate peak lowest remaining pipe sizes 120 which has a capacity of 485 GPM at minimum slope of 0.25% which will accommodate peak lowest remained or place at the 170 minimum slope of 0.25% which will accommodate peak peak by just unting this segment of place at the 170 minimum slope reduces the depth of the upstream end of the operation of the peak peak peak to 180 minimum slope and on the peak peak peak peak to 180 minimum slope peak peak peak peak peak peak peak pe
38/53	S6 HS	420+43 - 423+50	12+39 - 15+45,73 (51.8)	10" (material unknown)	12" PVC	306.73	Forced	in order to maximize pipe despit after the upstream or use project, the projects researched the project of the minimum price along extract per TCEQ minimum pipe clappe art TCEQ minimum pipe clappe art TCEQ minimum pipe super per TCEQ minimum pipe super per TCEQ minimum pipe super per TCEQ minimum pipe as the project per art 27 beg capacity order so the per flower of the project pipe super per per per per per per per per per
38/53	S6 F8	420+00 - 420+43	15+45.73 - 15+88 (SL B)	8" (material unknown)	s PVC	42.27	INKIND	N., line is beingregulated with same state line. The proposed weatweeter line frequent to be rule it full cultumination by a slope per TCCCC chapter 2.7 being further to Pomental Wasteward's System 73ble C.2 The minimum slope for 3.5 to 0.33%, At this slope, the 6° pipe capacity excreted speak flows of 1.54 of pive 3.5 to pipe signature that the flow of 1.50 pipe 3.5 to 0.33%, At this slope, the 6° pipe capacity excreted speak flows of 1.54 of pive 3.5 to 0.35%, At this slope, the 6° pipe 3.5 to 0.35%, At this slope, the 6° pipe 3.5 to 0.35%, At this slope, the 6° pipe 3.5 to 0.35%, which would lose depth upstream and would pomentally be to shallow to gravity serve upstream such and one of 0.25% which would lose depth upstream and would pomentally be to shallow to
39/54	SH 95	417+00 - 420+00	15+88 - 18+79 (5L B)	8" (material unknown)	8ª PVC	291	INKIND	N. I, the is being replaced with same state line. The proposed waterwater line is required to be und in a Cocciliant may be a close per Total Chapter 2.10 being Orlett to Domestic Wastewater Systems Table C.2. The minimum slope for a 8° is 0.33%, At this slope, the 8° pipe capacity exceeds peak flows of 14.64 G/M. See pipe segment singe Chart. A 6° pipe size cannot be used due to its minimum slope of 0.26% which would lose depth upstream and would postability be to shallow to gravity serve upstream and would postability be to shallow to gravity serve upstream services.
40/55	S4 HS	413+50 - 417+00	18+79 - 22+22 (SL B)	8" (material unknown)	s, DVC	343	INKIND	NA, line is built ceptaced with same size line. In proposed waterwater in the required concerning and with same size line. In proposed waterwater Systems Table C2. The minimum slope for a 8° is slope per TCEQ (Chapter 22.0) Dough Chief for Donnest Wastewater Systems Table C2. The minimum slope for a 8° is 0.33%, Art this slope, the 8° pipe capacity overeeds peak flows of 146.4 GPM. See pipe signered sidning chart. A 6° pipe size capacity overeeds peak flows of 146.4 GPM. See pipe signered sidning share. A 6° pipe size cannot be added the relationship to the stable over particular and would possibly be to shallow the grantly better updates. The stable over particular size of 150.5 Which would lose debth upstream and would possibly be to specify any stable over the stable over the stable over the stable of 150.5 Which would not see that the stable over the stable of 150.5 Which would not seek the stable over the st
41/56	SH 9S	410+00 - 413+50	22+22 - 25+72 (5L B)	8" (material unknown)	St PVC	350	INKIND	Wit, line is being replaced with same size line. The proposed wastwater into a required to obtain a constitution of the size per TEEQ Chapter 2.75 being richted for Domestic Wastwater Systems Table C.2. The minimum stope for a 8° is 0.33%, At this slope, the 8° pipe capably occeeds past flows of 146.4 GPM. See pipe segment stiling chart. A 6° pipe size cannot be used dute to its minimum stope of 0.35% which would lose depth upstream and would potentially be to challow to grantly serve upstream servicine.
41/67	SH 95/5th	410+60	0+00 - 0+65 (\$L 817)	none	6° PVC	8	Elective	Per TCEQ Chapter 217 Design Criteria for Domestic Wastewater Systems Table C.2., the minimum pipe size for gravity sever application is 6 inches. A ST crossing it being provided to the vest side of SIS is the event there is a need in the future to min a Cryataliel to SH 95 in an examentation to the vest of each 95. A parallel line in the future would minimize service bores across 5195 to the proposed 8 wastewater line on the east side of SH 95.
42/57	¥ 88	406+50 - 410+00	25+72 - 29+72 (SL B)	S" (material unknown)	S" PVC	400	INKIND	Wh, line is bring replaced with same size line. The proposed variates after a recommendation on the control of

Page 2 of 6

# U-15999\_SH95\_Cost Estimate\_12.18.20.xlsx

Wastewater Forced Betterment

			WASTEWATER STATION RANGE	EXISTING LINE SIZE	PROPOSED LINE SIZE	LINEAR FEET OF	Austin District Review of Justification	JUSTIFICATION
SHEET NUMBER	STREET	TXDOT STATION KANGE	WASIEMAIEMAIA				100	NA, line is being replaced with same size line. The proposed wastewater line is required to be run at TCEQ minimum pipe
43/58	SH 95	403+00 - 406+50	29+72 - 33+36 (SL B)	8" (material unknown)	8" PVC	364	INKIND	slope per TCEQ Chapter 217 Design Criteria for Domestic Wastewater Systems Table C.J the diminimacion for a call 0.33%, At this stoop, the 8" pipe capatity exceeds peak flows of 120 Ok See pipe segment shing chart. A 6" pipe site cannot be used due to la minimum alope of 0.20% which would lose depth upstream and would potentially be to shallow to grankly serve upstream services.
43/65	SH 95	403+20 - 405+19	0+00 - 2+00 (51.827)	4" PVC FORCE MAIN	4" PVC FORCE MAIN	580	INKIND	NA, line is being replaced with same size line, Per ITCEJ happer 12, begin Lineau begin Lineau begin to a size of 23, 23, 23, 23, 23, 23, 23, 23, 23, 23,
44/59	S 8 8	402+22 - 403+00	33+36 - 34+11.80 (5L B)	4" (material unknown)	8" PVC	7.17	Forced *	The proposed waterwater fine it required to be far in ECLE finnium in pigs sole or Lichtenman.  Domestic Wasterwater System T table C.2. "The minimum slope for a 8" is 0.38%, At this slope, the 8" pips capacity concered to make the state of the slope of all distinctions of the slope of the
45/61	NW 1st ST	432+12	0+00 - 2+63.97 (\$1.82)	10" (material unknown)	15" PVC	263.97	Forced	The proposed stope of Lodo's for the 2st from the protection to a control and the control and
46/62	4th AVE	430+51	0+00 - 2+31.68 (5L B3)	6" (material unknown)	6" PVC	231.68	INKIND	NA, line is being replaced with same size line. The proposed wastewater line is required to be run at TCEQ minimum pipe stops par TCEQ. The minimum slope for a G* is stop a par TCEQ. Chapter 2.3. The minimum slope for a G* is stop a par TCEQ. The minimum slope for a G* is 0.5. At this slope, the G* Dipe capacity exceeds park flows of 50.5. See pipe a page 1.5. The stop is 1.5. See pipe
47/63	MIK	420+43	0+00 - 1+43.65 (5L 58)	8" (material unknown)	12" PVC	143.85	Forced	The minimum alogic for a st. is useful, as useful, as a separable of 485 GPM at minimum slope of 0.23% which segment stiffed chart. The next smaller pipe state is 30° which has a capacity of 485 GPM at minimum slope of 0.23% which will accommodate peak flows; however, this would be the only segment of 10° pipe for the entire piped medicaller. For combinity of the project and due to limited quantity of 10° meeded, 32° PVC was pelected. The alignment requires extension past TXDOT pawing improvements at on the location of the existing wastewater lines and discharging wastewater to MH #9 in the direction of flow occuping in the main.
48/64	North ST	407+31	0+00 - 2+34.03 (SL B21)	8" (material unknown)	S* PVC	234,03	INKIND	NA, line is being replaced with same size line. The proposed wastewater line is required to be run at TCEQ minimum pipe signe per TCEQ chapter 217 Design Chiera for Domestic Wastewater Systems Table C.2. The minimum slope for a 8" is 0.33%. At this slope, the 8" pipe sapacity exceeds peak flows. See pipe segment slining than."
					4117	4877.25	25 Flactive Betterment	

	Afterment .		0,00 200,00	SE 000 38 68	COURT DATE	318.02/2414.02		0.0000	0.00[1303.07		0.00 263.97	0.001399 51	and down	48/1/25	
4877.25	Tall The Party of	Porced Betterment	0.00	-	0.00	74 70	City!	000	Ch cost	Tagara)	263.97		15,885		
		INKIND	200 005	animat .	231.68	00,1000	UE. P.70.2	000	a i	00.0	800		00'0		
		I Inear Feet TOTALS	00000	2000	296 68	-	2414.02	000	0.0	1303.07	10 000	762397	399.51	4877.25	
			Size of Pipe	4	***	9	8.0		10"	200	77	15"	200	07	
-						1000				1					

# U-15999\_SH95\_Cost Estimate\_12.18.20.xlsx

S WATER FORCED	SH 95 WATER FORCED BETTERMENT TABULATION	ATION						
SHEET NUMBER	STREET	TXDOT STATION RANGE	WATER STATION RANGE	EXISTING LINE SIZE	PROPOSED LINE SIZE	LINEAR FEET OF PROPOSED LINE	Austin District Review of Justification	JUSTIFICATION
71/93	SH 95\FM 535	389+50	Negative 0+8.39 - 0+97.47 (WL A)	6" PVC	6" PVC	105.86	INKIND	NA, line is being replaced with same site since this line serves residential areas and does not need increased line site for non residential fire flows.
71/93	Se HS	09+666 - 03+686	0+97.47 - 4+30 (WL.A)	e PVC	12" PVC	332,53	Forced	Adopted Fire Code in City of Smithville is the IFC2006. Non residential fire flows control the water main sting since there is a Smithville ISO Comparable where the line acts on the zouth affor of the Table 18105 It is maximum non residential ire flows are governed by IFC2006, Appendix 8, 81052, and Table 81051 Per Table 81001 The maximum non residential flows flow by IFC2006, Appendix 8, 81052, and Table 81051 Per Table 81001 The maximum non residential flows flow by IFC2006 Per could be additionally to the spiritiders are provided; therefore by the required design fire flow is 20000 PM. The requirement is allowed when fire apprinters are provided; therefore the required design for flow is 2000 CPM. The required editory present in 500 CPM is provided editory present in 500 CPM for the flow applies of providing 2,000 GPM at 20 psi due to increased velocities and associated headloss in the water system.
72/94	SH 95	00+96E - 00+66E	4+30 -7+30 (ML A)	er PVC	12" PVC	906	Forced	Adopted Fire Code in Ctty of Smithville is the IFC 2006. Non residential fire flows control the water main sting since there is a Smithville ISO Campus where the line Acid so the south side of the project mare MS 25. Non residential fire there is generated by IFC 2006, Appendix 8, 8105.2 and Table 8105.2. Per Table 8105.4, the maximum non residential fire, flow is 8,000 GMF, increased south side of the maximum non residential three flow is 8,000 GMF, his requirements allowed when fire spinklers are provided threefore the required design for flow is 2000 GMF. The required delivery pressure is 50 pt. A.200 GMF in fire flow requirement and delivery massers in 50 pt. A.200 GMF ms flow requires a 12 inch water order flow would not be appaid to providing 2000 GMF as 20 pts due to increased velocities and associated feedloss in the water system.
72/94	SH 9S	395441.20	0+00 - 0+84 (WL A3)	2" (material unknown)	6° PVC	8	Forced	A fire hydrant is required to tee off a minimum in inch water line area. Which produces are nytuation to recommende are service on a existing 2 inch water line that extends beyond TXDOT right-of-way, in existing conditions there is a fire hydran located at Burner BMd, by placing the new fire hydrant on ML A2 in lieu of at Bruner, it eliminates the need for a water-line bore at Bruner.
73/95	S8 BS	05+66E - 00+96E	7+30 - 10+80 (WL.A)	6" PVC and 8" PVC	12" PVC	350	Forced	Adopted Fire Code in City of SmithVille is the IFC 2006. Non residential fire flows control the water main sizing since there is a SmithVille XD Campus Where the line dends on the sounds file of the project near RPI SS. Non residential fire there is a SmithVille XD Campus Where the line dends on the 2005. Per Table 8105., It has maximum non residential fire file is goodened by IFC 2006, Appendix 8, 8105.2 and Table 8105., It has the maximum non residential fire file is goodened by IFC 2006, Appendix 0.0 Cell VIII we equilisment is allowed when fire sprinklers are provided, therefore the required design file flow is 2,000 Cell. The required adhery pressure is 2 Dig. A. A. A. A. D. G. Ord fire flow requires a 21 inch water in deter to velocity and head loss conditions. Pleas smaller than 22 inches would not be papable of providing 2,000 GPM at 20 pid due to increased velocities and associated headloss in the water system.
74/95	S8 88	999+50 - 403+00	10+80 - 14+85 (WL A)	6" PVC and 8" PVC	12" PVC	355	Forced	Adopted Fire Code in City of SmithVille is the IFC 2006. Non residential fire flows control the water main sking since there is a SmithVille ISC Campauvener the fire fends on the sound side of the proper rear PATS SNO ne residential fire there is a spowered by IFC 2006, Appendix 8, BIOS 2, and Table BIOS 2, the maximum non residential fire flows BIOD GOAT however a 75% returbles of fire flow requirement is allowed when fire sprinklers are provided; therefore the requirement her become the requirement is allowed when fire sprinklers are provided; therefore the requirement fire the flow is 2,000 GOM. The required delivery pressure is 2.0 pst. A ZOO GOAT fire flow requires at 2 inch water fire the travelectly and head loss conditions. Pleas smaller than 22 inches would not be equally a 12 inches would not be used to providing 2,000 GOM at 2,0 pst flow to increased velocities and associated headloss in the water system.
78/27	S6 HS	403+00 - 406+50	14+35 - 17+86 (WL A)	6" PVC and 8" PVC	12" PVC	351	Forced	Adopted Fire Code in City of SmithVille is the IFC 2006. Non residential fine flows control the water main sting since there is a SmithVille ISO Campus where the liter entits of the Other Depted has PSI SNO nestedential fine flows as governed by IFC 2006, Appendix 6, 8105.2 and Table 8105.1, Per Table 8105.1, the maximum non residential fine flows is 8000 GRNA howevers 3755 residential of fine flow requirement is allowed when fine sprinklers are provided; therefore the requirement PSI Fine flows the provided there is the provided sprinklers are provided; therefore the requirement in Fine flows to 2000 GRNA the required deliventy means the 2000 GRNA fine flow requires a 22 inch water fine due to velocity and head loss conditions. Plose smaller than 12 inchare would not be required and associated headloss in the water system.
76/98	S8 98	406+50-410+00	17+86 - 21+36 (WL A)	2" and 6" (material unknown)	12" PVC	350	Forced	Adopted Fire Code in City of SmithWille is the IFC 2006. Non residential fire flows control the water main shing since there is a SmithWille ISC Campus, where the line ends on the sunt bit del of the region ships. So, no residential fire was expourted by IFC 2006, Appendix 8, ESCS 2 and Table 2005. I. Per Table 2005. I. the maximum non readential fire flows a good ready, however a 73% reduction of fire flow requirement to allowed when fire sprinkers are provided; therefore the required design fire flow is 2000 CPM. The resulted design from fire 10 and 2000 CPM. The required design flow are the required design fire flow is 500 CPM to the submitted delivery pressure 15.0 pc. 5, 2000 CPM fire flow requires a 21 chick waster fine due to velocity and haad loss conditions. Ploss smaller than 12, inches would not be required and or providing 2,000 CPM as 20 ps flow that saccetated headloss in the water-system.
77/99	S6 HS	410+00 - 413+50	21+36 - 24+86 (VIL A)	2" and 6" (material unknown)	12" PVC	350	Forced	Adopted Fire Code in City of SmithVille is the IFC 2006. Non residential fire flows control the water main shing since there is a SmithVille ISO Campus where the line ends on the south side of the project near IRDS. Non residential fire was regioned by IFC 2006, Appendix 8, 8105.2 and Table 8105.1, Per Table 8105.1, the maximum non residential fines was to go over the sport of the IRDS and Table 8105.1, Per Table 8105.1, the maximum non residential fine flow is 5,000 FMA Nonewest a 73% reduction of first flow requirement it allowed when fire sprinklers are provided; therefore the required design first flow is 2,000 FMA fire flow the requirement in the IRDS and IRDS and IRDS are smaller than 12, Inches would not be required as 2,1 first water fine due to be objectly and head loss condictors. Plops smaller than 12, Inches would not be required by providing 2,000 GPM at 20 pg for the smaller than 12, Inches would not be required by providing 2,000 GPM at 20 pg for the IRDS and IRDS are smaller than 12, Inches would not be regardle of providing 2,000 GPM at 20 pg flow to increased velocities and associated handles; for providing 2,000 GPM at 20 pg flow to increased velocities and associated handles; for providing 2,000 GPM at 20 pg flow to increased velocities and associated handles from the results are required.
66/11/	SH 9S	410+24.65	0+00 - 0+59 (WL A15)	2" (material unknown)	er PVC	85	Elective	A 6° cressing is being provided to the west side of 59 Sp. in the devilt table is thereful in terrain course, or 1959. Sp. in a resoment. A parallel line in the first would infinite sentile boots across 34 Sp. to the proposed 12° water 1959. The heavy state and the proposed 12° water 1969. The heavy table and the third titure 6° line for fire protection along the west side of the heavy traveled line. Fire hydrans rawy sto be added to this future 6° line for fire protection along the west side of the heavy traveled 1959. Sp. corridor. There is currently a 2° water line on the west side of 59 Sp. without being across to the east adde. The first line size for the crossing is properlies on the west side of 59 Sp. without being across to the east adde. The first line size for the crossing is

		1						
SHEET NUMBER	STREET	TXDOT STATION RANGE	WATER STATION RANGE	EXISTING LINE SIZE	PROPOSED LINE SIZE	LINEAR FEET OF PROPOSED LINE	Austin District Raview of Justification	JUSTIFICATION
78/100	SH 95	413+50-417+00	24+86 - 28+90 (WL A)	2" and 6" (material unknown)	12" PVC	344	Forced n	Adopted Fire Gode in City of Smithwille is the IPC 2006. Non readerntial fire flows control but water main acting direct where is so-influed ISD Campus where the lite ends on the scoth side of the grounder hard \$55. More realerntial fire flows are governed by IPC 2006. Appendix by \$10.52, and Table \$10.51. Per Table \$50.52, the maximum non readerntial fire flows \$5,000 GPM; however a 75% reduction of fire flow requirement is allowed when fire sprinders are provided; then flows \$5,000 GPM; however a 75% reduction of fire flow requirement is allowed when fire sprinders are provided; then store a 200 GPM is \$1.000 GPM fire flow required adelwey spreasure is 20 pt A 2,000 GPM fire flow trequires a 21 thick water fire due to velocity and head loss conditions. Pless smaller than 12 inches yould not be capable of providing 2,000 GPM at 20 pcl due to increased well-cities and associated headloss in the water system.
101/67	26 HS	417+00 - 420+00	28+30 - 31+25 (WL.A)	2" and 6" (material unknown)	12" PVC	235	Forced	Adopted Fire Gold in City of Smithville is the IFC2006. Non residential fire flows control the water main citing since there is schilled EXO Campus where the file resident has beautistical for project meet ASSS. Non residential fine flows are governed by IFC2006. Appendix B, \$150.22 and Table \$10.52 Per Table \$10.52 but maximum ron residential fine flows is \$5,000 GNM; however a 75% reduction of fine flow requirement is allowed white respirators are produced; therefore the security of design fine flow ack, \$25,000 GNM fine flow trequires a 22 inch water fine due to whooldy and head loss conditions. Piges smaller than 12 inches would not be capable of providing 2,000 GNM at 20 pil due to increased velocities and associated headloss in the water system.
80/102	SH 95	420+00 - 423+50	31+25 - 34+72 (WL A)	6° (material unknown)	12" PVC	347	Forced	Adopted file Golde in City of Smithville is the IFC.2006. Mon residential fire flows control the water main stifts since there is a Smithville ISO Campus where the line reside on the south side of the protect meth AS SSS. Non residential fire flows as governed by IFC.2006. Appendix, B. 105.22 and Table BJ.65.1. Per Table BJ.05.21, the maximum non residential fine flows is 5,000 GPM; however a 75% reduction of fire flow residentialist allowed within the aprinches are provided; therefore the required design fire flows is 3,000 GPM. The required delivery pressure is 30 pst. A, 3,000 GPM fire flow requires a 12 thick water line and the value of the flow residential than 121 inches would not be capable of providing 2,000 GPM at 210 pst due to increased velocities and associated headloss in the water system.
81/103	8 K	423+50 - 427+00	3472 - 3842 (WL A)	6" (material unknown)	12" PVC	350	Forced	Adopted Fire Code in City of Smithville is the IPC 2006. Non residential fire flows postoric the water mainleding since there is a Smithin ISD Campus where the liter select on the scott side of the project rear Pol 555. Non residential fire howe is a governed by IPC 2006, Appendix 9, 1852, and Table 8,1854. Per Table 8,1054, the maximum non residential fine lows of 8,000 GPMs, however a 75% reduction of fire flow requirement is allowed when fire sprinked was no provided; fine flows exequine design fire flow is 2,000 GPMs. The required design fire flow is 2,000 GPMs in the required design for a 2,000 GPMs in the value of the date to when do so conditions. Pipes smaller than 12 inches would not be capable of providing 2,000 GPM at 2,000 GPM are 10 and associated headloss in the water system.
82/104	S6 KS	427400-430450	38-22 - 41+65 (WLA)	G" (material unknown)	12" PVC	343	Forced	Adopted Fire Gode in CDy of Smithville is the IFC 2006. Non residential fire flows control the water main statute in the twenter than 1900 to the project rest AF 535 Non residential fire there is a Smithville ISO Campus where the line residential fire there is a Smithville ISO Campus where the fine residential fire was a geometric by IFC 2006, Appendix B, 1805.2 and Table 80.551. Per Table 810.54, the maximum non residential fine former day ISO COG GWA, Investment PS 180 was divernent by a Bood GWA, for Cod GWA fire flow therefore the required shelp fine flow is 2,200 GWA. The required design fine flow is 2,200 GWA fine flow was expensed to 200 GWA fire flow requires a 22 thick water flow day to water system.
53/105	S6 HS	430+50-434+00	42+65 - 45+24 (WL A)	6" (material unknown)	12" PVC	349	Forced	dopped Fire Code In City of Smithville is the IFC.2006. Non residential fire flows control the water main saling alrea bare is a Smithville IDC Camprawherer the line ends on the south side of the projectives FM 355. Additionally, the area north of NW.142 Street is in a non residential area requiring non residential fire flows. Non residential fire flows are powered by IFC.2006, Appendix, B. 2005.2 and Table 81055.1. Per Table 81055.1, the maximum non residential fire flow is a 500 GPAI, however a 75% reduction of fire flow requirements tail board when the spatishest may provided, therefore the required delays fire flow is 2,000 GPAI. The required calletery pressure is 20 pz. A 2,000 GPAI fire flow requires 3.12 then water flow due to velocify and head osts conditions. Pipes smaller than 12 inches would not be capable of providing 2,000 GPAI at 20 ppd due to increased velocifies and associated headloss in the water system.
84/106	S6 HS	434+00 - 436+00	45+34-47+20 (VI. A)	6" (material unknown)	12" PVC	206	Forced	Adopted Fire Code in City of Smithville is the IEC2006. Non residential fire flows control the water main stifting shoce there is a Smithville ISO Lampus Where the fine ends on the south side of the projectarism TA 555. Additionally, the area onch of NW 1st Street is in a non residential area required an oral cademial fire flows. Non residential fire flows are onch of NW 1st Street is in a non residential area required as 20.55. The Table 81055.1, the maximum non residential fire flow is governed by IEC2006, Appendix 8, 3105.2 and Table 81051. Per Table 81055.1, the maximum non residential fire flow is 0.000 GPM, however a 75% reduction of fire flow required calibrary pressure is 20.91. A 2,000 GPM, fire flow requires 3.22 minute flow due to the Veryland Is and loss confliction. Pipes smaller than 22 inches would not be capable of providing 1.000 GPM, at 20 paid flee to increased velocities and associated headress in the water system.
34/106	56 HS	438+00	47+20 - 47+98 (WL A)	6° and 8° (material unknown)	Si boc	78	Forced	Adopted Fire Code in City of Smithville is the IPC200S. Non residental fire flows control to water with adulty. There are estitative 5 and 5 water lites included on the west-field of SH SS north of PM 3573 providing fire flows to estimating non real central development. A so fish consults provided for the flow purposes. Non residential fire flows to expertund real central development. A so fish consults provided for the flow purposes. Non residential fire flows are provented engaged per flow and provided for the flow so that the second residential fire flows is 2000 CMP. The flow and the manufactures are provided; therefore, copy, however a 75% residential of fire flow residential eligible systems with fire spindless are provided; therefore, first, considered development and the development water glank therefore, hardiness will not be a self-influent when comparing to the distance to the Schildwille ISD campus on the south side of hardings replaced for the anticipated fire flows.
85/107	TS HTT WS	404+54.85	0+00 - 1+55 (WL A6)	6" (material unknown)			CHESTER	NA line is helpe poplaced with same size line (serves residential areas)
86/108	NORTH/WEBSTER ST	ST 407+13.02	0+00 - 2+43 (WL A11)	6" (material unknown)	6" PVC	243	INKIND	NA <sub>V</sub> , filled in south in the second of the

# U-15999\_SH95\_Cost Estimate\_12.18.20.xlsx

Water Forced Betterment

4EET NUMBER	STREET	TXDOT STATION RANGE	WATER STATION RANGE	EXISTING LINE SIZE	PROPOSED LINE SIZE	LINEAR FEET OF PROPOSED LINE	Austin District Raview of Justification	JUSTIFICATION	
87/109	SW 4TH ST	416+35.06	0+00 - 1+00 (WL A20)	6" (material unknown)	10° PVC	001	Forced	Adopted Fire Code in City of Smithville is the IFC 2006. Non residential fire flows control the water main stiting. There is an existing elementary school located approximately 250 feet east of 261 95 on SW 443 has better that requires service from a an existing elementary school located approximately 250 feet east of 261 95 on SW 443 had Synch (about 12 blocks to 00 inch water inch. Additionally, Cuty OS Finithwish east 30 water line located at 50% 443 and Synch (about 12 blocks to pressure . The east), ALEY water (line fine Ait Avenue is not required since a 30° can provide the minimum fire flow delivery or pressure. The estimated pressure delivery of the 25° for the school of 20° In the fustion water plan recommends 3.0 mich water line along 50% 44h from Ivity to 25% 50 provide a large line floop on the sculpt side of the military stacks in finite required.	
88/110	MLK DR	420+75.93	0+00 - 3+45 (WL A26)	2" (material unknown)	9. PVC	345	Forced	After hydrant is provided off the proposed is factivated line. After hydrant is required to twe on a minimum of mutual water line size. The proposed of water line the linto an existing of water line located at the intersection of MIK and perms.	
prej co	ATU AVE	430+31 97	0+00 - 1+66 (WL A33)	6" (material unknown)	6" PVC	166	INKIND	NA, line is being replaced with same size line (serves residential areas)	
89/111 0-91/112-113	WN 1		0+00 - 4+94 (WL A34)	Notine	12" PVC	494	Forced	anoppes rise cours in Any collinous shorts are not on the poth side of the project near PM \$35. Non residential free there is a Simfavillia ISO changes where it is a Frai bell \$20.54, the residential or the changes are governed by IEC 2006. Appendix it, \$8.555, and 7.56 \$20.55, the residential non-sidential free flow is 20.00 GPA. The required delivery pressure \$20.564, a \$2.00 GPA fine flow therefore the required design fire flow is 2.000 GPA. The required delivery pressure \$20.564, a \$2.00 GPA fine flow, therefore the required delivery pressure \$20.564, a \$2.00 GPA fire flow exputes a flow of the changes are provided and the special or anopped of the flow proposed \$12^{\circ}\$ water line due to WM \$4.54\$ and Fawcetz will be tied directly to the \$2.10 ch water line feeding the existing elevated context line feeding the existing free existing the project in the south end of the Febro is the south end of the Febro is the position.	
			1304 111120 0 00 0	(masterial unbacum)	O'A "9	87	INKIND	NA, line is being replaced with same size line	
92/114	N 2ND ST	435+22.12	0400 - 0487 (WLASS)	o (marchet diminous)		6239.39			
			Size of Pipe	Linear Feet TOTALS	IN KIND	Forced Betterme	Elective Betterme		
			40	00:0	0.00	00:0	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM	0700	
			+ 1	1244.86	756.86	429.00		59,00 1244.86	
			0 6	78.00	TO THE PROPERTY OF THE PARTY OF		Section Sectio	0.00 78.00	
			200	00000	ない 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日			0.00   100.00	
			10.	5116 53		5	AUSTRACK MEDICAL	0,00   5116.53	
			77	000	00:0	00:00		0.00 0.00	
			15	000	DOWNERS SOCIAL PROPERTY.	00.0	の大きないというないのではない	00'0	
			-02	96 9639				6539.39	
				ec-cecq					

# Attachment "H" Proof of Property Interest

Proof of Property Interest
⊠ Supporting documentation of compensable property interest that establishes reimbursement eligibility as referenced in Texas Transportation Code §203.092.
☐ Property interest documented through applicable affidavits and required attachments.
☐ ROW-U-Affidavit
☐ The roadway improvement project is designated as an Interstate Highway project; therefore, no supporting documentation of compensable interest is required.

Initial Date Initial Date
TxDOT Utility

value of the work product that can, as determined by the department, be used by the department in the performance of its functions, up to a maximum amount per proposer of \$4,867,500.

IT IS FURTHER ORDERED that payment for work product may only be paid to the extent that the work product submitted meets the minimum criteria and the proposer satisfies the conditions for payment identified by the department in the I-35 Northeast Expansion Project procurement documents.

### ITEM 8. Municipal Utility Relocation Reimbursement

Bastrop County - Consider the approval of a request from the City of Smithville (city) to make the relocation of the city's utility facilities required by the SH 95 highway improvement project an expense of the state under Transportation Code §203.092(a-4) (MO)

After Item 5, Chairman Bugg brought up this item. Item 8 was presented by Right of Way Division Director Kyle Madsen. Comments were received from Bastrop County Judge Paul Pape and Smithville City Manager Robert Tamble. Commissioner New made a motion, which was seconded by Commissioner Vaughn, and the commission approved the following minute order by a vote of 4 - 0.

115588 ROW The Texas Department of Transportation (department) has a state highway project in Bastrop County, on State Highway 95, that requires the relocation of utility facilities. The City of Smithville owns certain of these utility facilities.

Transportation Code, §203.092(a-4) authorizes the Texas Transportation Commission (commission) to determine that certain publicly-owned utilities are eligible for utility facility relocation at the expense of the state. The City of Smithville has requested that the commission determine that the relocation of their utility facilities be at the expense of the state.

The commission finds and determines that the City of Smithville meets the eligibility standards contained in that statute and that the department's expenditures under Transportation Code, §203.092(a-4), including the request by the City of Smithville, will not exceed the fiscal year limitation contained in Transportation Code §203.092(e).

IT IS THEREFORE ORDERED by the commission that the relocation of the City of Smithville's utility facility required by the improvement of the state highway system is an expense of the state to be paid by the department.

ITEM 6. Design Bid Build Contract - Direct Connectors SH 99 and SH 249 Interchange Harris County - Pursuant to an understanding between the department and Harris County (county) regarding the county's agreement to fund projects selected by the department and the county that enhance regional mobility, consider designating four proposed direct southern connectors at the interchange of State Highway 99 (Grand Parkway) and State Highway 249 (Tomball Tollway) in Harris County (referred to as the SH 249 DCs), connecting two existing toll projects, as toll projects funded and constructed solely by the county on the state highway system; consider designating the two direct connectors on the southeast side of the interchange (the Southeast DCs) as part of the Grand Parkway Project and authorizing the Grand Parkway Transportation Corporation (GPTC) to operate them as part of the Grand Parkway System; consider approving the exercise of primacy for the Southeast DCs by the department to develop, finance, construct and operate them; consider authorizing GPTC to perform any function authorized, including those authorized by Chapter 431 of the Transportation Code, in connection with the Southeast DCs; consider approving the assignment of revenues from the Southeast DCs to GPTC; consider approving financial assistance under the existing toll equity loan agreement between the department and GPTC for the SH 249 DCs,

CSJ#

0323-01-028

District #

14-AUS

Project:

Code Chart 64 # 39650 SH 95

STATE OF TEXAS

S

**COUNTY OF TRAVIS** 

8

### ADVANCE FUNDING AGREEMENT FOR VOLUNTARY UTILITY RELOCATION CONTRIBUTIONS ON STATE HIGHWAY IMPROVEMENT PROJECTS

THIS AGREEMENT is made by and between the State of Texas, acting through the Texas Department of Transportation ("State") and City of Smithville ("Utility"),

### WITNESSETH

WHEREAS, Transportation Code, Chapters 201, 221, and 361, authorize the State to lay out, construct, maintain, and operate a system of streets, roads and highways that comprise the State Highway System; and,

WHEREAS, Transportation Code, Chapter 203, Subchapter E, Transportation Code §203.092 authorizes the State to regulate the placement of public utility facilities along a state highway; and.

WHEREAS, Texas Transportation Commission Minute Order Number 115291 and 115814 authorizes the State to undertake and complete a highway improvement generally described as: SH 95 from SL 230 to SOUTH OF FM 535 ("Project"); and,

WHEREAS, Utility possesses facilities that are affected by the above mentioned highway improvement and Utility, and the State agrees that it is more economical or efficient for such relocation to be effected by including said contract in the State's highway construction contract;

NOW THEREFORE, in consideration of the premises and of the mutual covenants and agreements of the parties hereto, to be by them kept and performed as hereafter set forth, the State and Utility do agree as follows:

### **AGREEMENT**

### 1. Time Period Covered

This agreement becomes effective when signed by the last party whose signing makes the agreement fully executed, and the State and Utility will consider it to be in full force and effect until the Project described in this agreement has been completed and accepted by all parties or unless terminated, as provided.

### 2. Project Funding and Work Responsibilities

A. The State will authorize the performance of only those Project items of work which are eligible for relocation reimbursements or for which Utility has requested and has agreed to pay for as described in Attachment A - Payment Provision and Work Responsibilities, which is attached to and made a part of this contract. In addition to identifying those items of work to be paid for by payments to the State, Attachment A - Payment Provision and Work Responsibilities, also specifies those Project items of work that are the

CSJ# 0323-01-028
District # 14-AUS
Code Chart 64 # 39650
Project: SH 95

responsibility of Utility and will be carried out and completed by Utility, at no cost to the State. The Utility shall be responsible for costs that are shown on Attachment B, Estimated Utility Costs, which is attached to and made a part of this agreement.

B. If the Utility will perform any work under this contract for which reimbursement will be provided by or through the State, the Utility must complete training before a letter of authority is issued. Training is complete when at least one individual who is working actively and directly on the Project successfully completes and receives a certificate for the course entitled Local Government Project Procedures and Qualification for the Texas Department of Transportation. The Utility shall provide the certificate of qualification to the State. The individual who receives the training certificate may be an employee of the Utility or an employee of a firm that has been contracted by the Utility to perform oversight of the Project. The State in its discretion may deny reimbursement if the Utility has not designated a qualified individual to oversee the Project.

C. Payment under this contract beyond the end of the current fiscal biennium is subject to availability of appropriated funds. If funds are not appropriated, this contract shall be terminated immediately with no liability to either party.

**D.** Utility is not eligible for reimbursement based on State policy on utility relocation rules; however, Utility is 100% reimbursable due to the new SP 2125 program.

### 3. Termination

A. This agreement may be terminated in the following manner:

1. By mutual written agreement and consent of both parties;

2. By either party upon the failure of the other party to fulfill the obligations set forth in this agreement; or

3. By the State if it determines that the performance of the Project or utility work is not in

the best interest of the State.

**B.** If the agreement is terminated in accordance with the above provisions, Utility will be responsible for the payment of Project costs incurred by the State on behalf of Utility up to the time of termination.

4. Right of Access

If Utility is the owner of any part of the Project site, Utility shall permit the State or its authorized representative access to the site to perform any activities required to execute the work.

5. Adjustments Outside the Project Site

Utility will provide for all necessary right of way and utility adjustments needed for performance of the work on sites not owned or to be acquired by the State.

6. Responsibilities of the Parties and Indemnity

Utility acknowledges that it is not an agent, servant, employee of the State, nor is it engaged in a joint enterprise, and it is responsible for its own acts and deeds and for those of its agents or employees during the performance of the work on the Project. To the extent permitted by law, Utility agrees to indemnify and hold harmless the State, its agents and employees, from all suits, actions, or claims and from all liability and damages for any and

CSJ # 0323-01-028 District # 14-AUS Code Chart 64 # 39650 Project: SH 95

all injuries or damages sustained by any person or property in consequence with the performance of design, construction, maintenance, or operation of the Utility facility. Such indemnity includes but is not limited to any claims or amounts arising or recovered under the "Worker's Compensation Law", the Texas Tort Claims Act, Chapter 101, Texas Civil Practice and Remedies Code; or any other applicable laws or regulations, all as time to time may be amended.

### 7. Sole Agreement

In the event the terms of the agreement are in conflict with the provisions of any other existing agreements between Utility and the State, the latest agreement shall take precedence over the other agreements in matters related to the Project.

### 8. Successors and Assigns

The State and Utility each binds itself, its successors, executors, assigns, and administrators to the other party to this agreement and to the successors, executors, assigns, and administrators of such other party in respect to all covenants of this agreement.

### 9. Amendments

By mutual written consent of the parties, the scope of work and payment provisions of this agreement may be amended prior to its expiration.

### 10. Inspection and Conduct of Work

Unless otherwise specifically stated in Attachment A - Payment Provision and Work Responsibilities, to this contract, the State will supervise and inspect all work performed hereunder and provide such engineering inspection and testing services as may be required to ensure that the Project is accomplished in accordance with the approved plans and specifications. All correspondence and instructions to the contractor performing the work will be the sole responsibility of the State. Unless otherwise specifically stated in Attachment A to this contract, all work will be performed in accordance with the Utility Accommodation Rules as set forth in 43 Texas Administrative Code §21.31 et. seq. adopted by the State and incorporated in this agreement by reference, or special specifications approved by the State.

### 11. Maintenance

Upon completion of the Project, Utility will assume responsibility for the maintenance of the completed Utility facility unless otherwise specified in Attachment A to this agreement.

### 12. Notices

All notices to either party by the other required under this agreement shall be delivered personally or sent by certified or U.S. mail, postage prepaid, addressed to such party at the following addresses:

CSJ# 0323-01-028 District # 14-AUS Code Chart 64 # 39650

Project:

SH 95

Utility:	State:
City Manager	Director of Contract Services
City of Smithville	Texas Department of Transportation
317 Main Street	125 E. 11 <sup>th</sup> Street
Smithville, TX 78957	Austin, Texas 78701

All notices shall be deemed given on the date so delivered or so deposited in the mail, unless otherwise provided in this agreement. Either party may change the above address by sending written notice of the change to the other party. Either party may request in writing that such notices shall be delivered personally or by certified U.S. mail and such request shall be honored and carried out by the other party.

### 13. State Auditor

The state auditor may conduct an audit or investigation of any entity receiving funds from the State directly under this contract or indirectly through a subcontract under this contract. Acceptance of funds directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the state auditor, under the direction of the legislative audit committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

### 14. Signatory Warranty

Each signatory warrants that the signatory has necessary authority to execute this agreement on behalf of the entity represented.

### 15. Access to Information

The Utility is required to make any information created or exchanged with the state pursuant to this contract, and not otherwise excepted from disclosure under the Texas Public Information Act, available in a format that is accessible by the public at no additional charge to the state.

CSJ # 0323-01-028 District # 14-AUS Code Chart 64 # 39650 Project: SH 95

Each party is signing this agreement on the date stated under that party's signature.

Signature	
Signature	
Tuned or Drinted Name	
Typed or Printed Name	
Title	
the contract of the contract o	
Date	
and a superior and the contract of the contrac	
THE STATE OF TEVAS	5.
THE STATE OF TEXAS	
District Engineer	
Date	

CSJ# District # 0323-01-028

14-AUS Code Chart 64 # 39650

Project:

SH 95

### ATTACHMENT A PAYMENT PROVISION AND WORK RESPONSIBILITIES

### 1. Description of the Work Items

The parties agree that the existing water and wastewater shall be relocated and adjustments shall be made along SH 95. The water and wastewater facilities shall be owned, operated, and maintained by Utility from and after completion and final acceptance by the State and Utility. The estimated total construction cost for the relocated and adjusted facilities is \$3,853,300. The parties agree that it is their intent to complete the relocation improvements within this estimate of cost.

### 2. Actual Cost Agreement

Utility will be responsible for paying all costs associated with the planning, specification, and estimate (PS&E) development, and construction of the proposed utility work to the extent such is not reimbursed pursuant to state law. All the costs associated with construction of the water & wastewater items for the Project shall be provided as defined under the Standard Utility Agreement, Utility Joint Use Agreement, and/or the Agreement to Contribute Funds executed between the State and Utility.

### 3. Schedule of Payments

- A. At least forty-five (45) days prior to the date set for receipt of the construction bids, the Utility shall remit its remaining financial share for the State's estimated construction oversight and construction costs. Utility must advance to the State one hundred percent (100%) of its share of the estimated Project utility construction costs. The amount to be advanced for the utility improvements is estimated to be \$ 50,092.90. (See Attachment B - Estimated Utility Costs)
- B. In the event the State determines that additional funding is required by the Utility at any time during the Project, the State will notify the Utility in writing. The Utility is responsible for one hundred percent (100%) of the authorized elective betterment project cost and any overruns. The Utility will make payment to the State within thirty (30) days from receipt of the State's written notification.
- C. Whenever funds are paid by the Utility to the State under this agreement, the Utility will remit a warrant made payable to the "Texas Department of Transportation." The warrant will be deposited by the State and managed by the State. Until the final Project accounting, funds may only be applied by the State to the Project.
- D. Upon completion of the Project, the State will perform an audit of the Project costs. Any funds due by the Utility, the State, or the Federal Government will be promptly paid by the owing party.

### 4. Work Responsibilities

- A. The **Utility** shall provide the following services under this contract:
  - Responsible for engaging the services of a Texas Registered Professional Engineer to prepare drawings and technical specifications for waterline relocations and adjustments along
  - Provide the plans and specifications to the State to include in the current planning ii. specifications and estimate package being prepared by representatives of the Texas Department of Transportation's Bastrop Area Office.

CSJ # 0323-01-028 District # 14-AUS Code Chart 64 # 39650 Project: SH 95

iii. Secure all necessary permitting as may be required for the installation of the <u>water & wastewater line.</u>

- iv. Arrange and coordinate with the contractor, through the State, materials and equipment testing, rejection of all work not conforming to minimum requirements of the construction contract documents, maintenance of the proposed <u>water & wastewater</u> during construction, and the relocation of <u>water & wastewater facilities</u> and connection of services to customers.
- v. Advise the State of work that Utility determines should be corrected or rejected.
- vi. Arrange, observe, and inspect all acceptance testing and notify the State of the results of these activities.
- vii. Provide inspection services for the construction, notify the State of defects and deficiencies in the work, and observe actions of the contractor to correct such defects and deficiencies.
- viii. Assume all responsibility for the maintenance of the existing <u>water & wastewater</u> facilities during and upon completion of the construction contract.
- ix. Ensure all Texas Commission on Environmental Quality and all other regulatory rules, regulations and laws are strictly adhered to.
- x. Prepare and submit both a certificate of substantial completion and a list of observed items requiring completion or correction for the relocations and adjustments to the Project Engineer for concurrence.
- xi. Coordinate all construction activities performed by Utility's staff for the relocations and adjustments through the Project Engineer.

### **B.** The **State** shall provide the following services under this contract:

- i. Combine the <u>water & wastewater</u> relocation and adjustment plans with the plans being prepared for the Project.
- ii. Review and approve the final construction plans prior to any construction-related activities. In order to ensure federal and/or state funding eligibility, projects must be authorized by the State prior to advertising for construction.
- iii. Advertise for construction bids, issue bid proposals, receive and tabulate the bids, and award and administer the contract for construction of the Project.
- iv. Negotiate and administer all field changes and change orders required for the Project. All change orders increasing construction costs for Utility's Project shall be submitted to Utility for review and approval together with an evaluation. Utility agrees to review and either approve or disapprove all change orders within five (5) business days after receipt of such order unless Utility Board's approval is necessary in which case Utility shall bring the item to Utility Board as soon as reasonably possible.
- v. Provide overall project management to supervise the day-to-day activities of the construction and monitor the activities of the contractor to promote the timely and efficient completion of the Project in accordance with the approved Plans and Specifications and construction schedule.
- vi. Conduct field observations and coordinate with Utility's inspectors and the contractor to cure defects and deficiencies in the construction prior to final acceptance.
- vii. Make timely payment to the contractor for work performed in connection with the Project.

CSJ # 0323-01-028 District # 14-AUS Code Chart 64 # 39650 Project: SH 95

- viii. Ensure access and permit Utility's inspectors and other authorized representatives to inspect the waterline construction at all times.
- ix. Conduct and coordinate final inspection of the Project in the presence of Utility's Engineer and Inspector, transmit final list of items to be completed or repaired and observe contractor correction of same.
- x. Maintain job file.



CSJ#

0323-01-028

District #

14-AUS

Code Chart 64 # 39650 Project:

SH 95

### ATTACHMENT B **ESTIMATED UTILITY COSTS**

Based on various calculations, following are those amounts due and payable for Utility's costs associated with this project.

**Total Estimated Costs** \$3,853,300

Less Betterment Amount Due from Utility \$50,092.90

Amount of total utility relocation Costs \$3,853,300

Estimated Amount Eligible for Reimbursement (Calculated eligibility Ratio – 100%) \$3,803,207.10

Amount of Utility Adjustment Due from Utility \$ 0

### Estimated amount to be included in Construction Agreement

A. Betterment

\$50,092.90

B. Utility Adjustment

\$3,803,207.10

### **GRAND TOTAL**

\$ 3,853,300.00

### **Betterment Ratio Calculation**

**Estimated Betterment Costs** 

- 1. ... Increase in wastewater pipe size from 6" to 8"
- 2. ... Additional 6" water line crossing for future development

Betterment Calculation:

**Total Costs of Betterment** 

(Estimated)

\$50,092.90

**Total Costs of Project (Estimated)** 

\$ 3,853,300.00

Betterment Percentage for final cost determination: 1.30% of final cost of relocation Determination of Betterment - Comparison of estimated cost to replace "as is" versus estimated costs associated with the betterment.

Item A:

Item B:

Page 1 of 1 **AFA Utility**