



Job No.: 33760.B9.03

TRANSMITTED VIA EMAIL

September 26, 2019

Mr. Jeff Edmonds, P.E
Director of Engineering Services
City of Corpus Christi
P.O. Box 9277
Corpus Christi, Texas 78469

Re: City Wide Water Distribution System IDIQ Program (Year 1) 19037A

Dear Jeff,

We have reviewed the three (3) bids opened on September 11, 2019 for the above subject project and offer the following comments. The bids ranged from a low bid of \$4,492,350 to a high bid of \$6,015,150, with CPC Interests, LLC dba Clark Pipeline Services being the low bidder. Please find enclosed a copy of the *Tabulation of Bids*, summarizing the proposed bids from each of the three (3) bidders.

I. Analysis of Engineer's Estimate and Low Bid:

ENGINEER'S ESTIMATE	LOW BID	DIFFERENCE
\$5,000,098	\$4,492,350	\$507,748 (11%)

In general, the main reason for the difference between the engineer's estimate and the low bid is that our estimate of the unit costs was higher on a lot of the bid items. In general the contractor was higher than our estimated unit prices on:

- Extra Depth for Waterline Removal, Installation
- Installation of 16 and 24" Waterline
- Installation of Waterline by HDD
- Furnish and Install Tee, Crosses and Reducers various sizes
- Furnish and Install 24" Gate Valves and Fittings
- Furnish and Install Tapping Sleeve and Valve
- Extra Depth of Trench Safety
- Furnish and Install Steel Casing with Carrier Pipe
- Traffic Control
- Preconstruction Excavation
- Furnish and Install Transition Couplings

II. Bid Package:

We have reviewed the information submitted by CPC Interests, LLC dba Clark Pipeline Services to satisfy Section 00 45 16 (see attached) of the Contract Documents and note the following:

- Based on our conversation with Chris Clark of CPC Interests, LLC dba Clark Pipeline Services, it appears that the contractor understands the major components of the work and the products that we have specified to be used in the project.
- CPC Interests, LLC dba Clark Pipeline Services has completed the City's 2015 IDIQ program and are in the process of wrapping up the 2017 IDIQ program. They understand the IDIQ process and will have a crew dedicated to the 2019/20 program. They also understand that they are to be ready to mobilize a crew to undertake emergency work as noted in the Contract Documents.
- CPC Interests, LLC dba Clark Pipeline Services have listed the following subcontractors, Thomas Tise, Horseshoe Construction, Highway Barricades, and Boring and tunneling Co. These subcontractor will perform the following work for CPC Interests, LLC dba Clark Pipeline Services:
 - Thomas Tise – This subcontractor will work with CPC crews and will be responsible for drilling water crossings, large diameter installations longer pull lengths.
 - Horseshoe Construction – This subcontractor will be responsible for installing pipe by pipe bursting.
 - Highway Barricades – Will supply traffic control devices for the project.
 - Boring and Tunneling Co. - This subcontractor will work with CPC crews and will be responsible for difficult road crossings.
- CPC Interests, LLC dba Clark Pipeline Services will provide project management, coordination and back up services to these subcontractors. They will also be installing the proposed pipe lines and appurtenances by conventional trenching methods.

Urban Engineering has had a favorable experience working with CPC Interests, LLC dba Clark Pipeline Services on the following City projects, 2015 City Wide Water Distribution System R & R IDIQ (#8610), Phase 2 of the Padre Island Water and Gas Pipeline Extension (#E10172), and 2017 City Wide Water Distribution System R & R IDIQ (E16294 and 18094A).

III. Recommendation:

Based on the information presented above it is the recommendation of Urban Engineering that the subject project be awarded, if the funds are available, to CPC Interests, LLC dba Clark Pipeline Services for a total sum of **\$5,000,000**. This sum is to be awarded in multiple delivery orders over the next 365 calendar days based on the contractor's performance.

Sincerely,

URBAN ENGINEERING

J. Douglas McMullan, P. E.

JDM/

Enclosures

xc: Sandra Gomez, P. E., Engineer IV, Engineering Services

TABULATION OF BIDS
ENGINEERING SERVICES - CITY OF COPUS CHIRSTI, TEXAS

TABULATED BY: Urban Engineering
 J. Douglas McMullan, P. E.
 Date: September 11, 2019

TIME OF COMPLETION: 365

Engineers Estimate: \$5,000,000.

Citywide Water Distribution System Idefinite Delivery/Indefinite Quantity (IDIQ) Program (Year 1) City Project No.: 19037A	CPL - Clark Pipeline Services 6229 Leopard Street Corpus Christi, TX 78409 (361) 816-6007	Bridges Specialties, Inc. 4233 FM 324 Robstown, TX 78380 (361) 387-2743	National Power Rodding Corp. 91810 FM 969 Austin, TX 78724 (512) 928-1420
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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
Part A - GENERAL									
A1	Mobilization (Maximum 5% of Project Total)	LS	1	\$ 224,200.00	\$ 224,200.00	\$ 175,000.00	\$ 175,000.00	\$ 285,000.00	\$ 285,000.00
A2	Bonds and Insurance (Maximum of 2.5% of Project Total)	LS	1	\$ 60,180.00	\$ 60,180.00	\$ 100,000.00	\$ 100,000.00	\$ 145,000.00	\$ 145,000.00
A3	Ozone Advisory Day	Day	1	\$ 177.00	\$ 177.00	\$ 100.00	\$ 100.00	\$ 3,355.00	\$ 3,355.00
SUBTOTAL PART A - GENERAL					\$ 284,557.00		\$ 275,100.00		\$ 433,355.00
Part B - WATERLINE IMPROVEMENTS									
WATERLINE REMOVALS / CIP AND DIP WATERLINE									
B1	Remove and Dispose of 2" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 14.16	\$ 2,832.00	\$ 13.50	\$ 2,700.00	\$ 19.55	\$ 3,910.00
B2	Remove and Dispose of 4" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 17.70	\$ 3,540.00	\$ 15.50	\$ 3,100.00	\$ 19.55	\$ 3,910.00
B3	Remove and Dispose of 6" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 31.86	\$ 6,372.00	\$ 30.00	\$ 6,000.00	\$ 24.15	\$ 4,830.00
B4	Remove and Dispose of 8" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 33.04	\$ 6,608.00	\$ 32.00	\$ 6,400.00	\$ 26.45	\$ 5,290.00
B5	Remove and Dispose of 12" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 38.15	\$ 7,630.00	\$ 34.00	\$ 6,800.00	\$ 35.65	\$ 7,130.00
B6	Remove and Dispose of 16" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 41.69	\$ 8,338.00	\$ 38.00	\$ 7,600.00	\$ 39.10	\$ 7,820.00
B7	Remove and Dispose of 24" Diam. CIP and DIP Waterline (Up to 6-ft of Cover)	LF	200	\$ 45.23	\$ 9,046.00	\$ 42.00	\$ 8,400.00	\$ 46.00	\$ 9,200.00
ACP WATERLINE									
B8	Remove and Dispose of 2" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	50	\$ 29.50	\$ 1,475.00	\$ 28.00	\$ 1,400.00	\$ 19.55	\$ 977.50

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B9	Remove and Dispose of 4" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	50	\$ 31.86	\$ 1,593.00	\$ 30.00	\$ 1,500.00	\$ 19.55	\$ 977.50
B10	Remove and Dispose of 6" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	50	\$ 33.04	\$ 1,652.00	\$ 31.50	\$ 1,575.00	\$ 24.15	\$ 1,207.50
B11	Remove and Dispose of 8" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	50	\$ 35.40	\$ 1,770.00	\$ 33.00	\$ 1,650.00	\$ 26.45	\$ 1,322.50
B12	Remove and Dispose of 12" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	20	\$ 40.51	\$ 810.20	\$ 36.00	\$ 720.00	\$ 35.65	\$ 713.00
B13	Remove and Dispose of 16" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	20	\$ 50.74	\$ 1,014.80	\$ 46.00	\$ 920.00	\$ 39.10	\$ 782.00
B14	Remove and Dispose of 24" Diam. ACP Waterline (Up to 6-ft of Cover)	LF	20	\$ 54.28	\$ 1,085.60	\$ 58.00	\$ 1,160.00	\$ 46.00	\$ 920.00
B15	Extra Depth for Waterline Removals for Each Vertical For Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 39.33	\$ 1,966.50	\$ 35.00	\$ 1,750.00	\$ 9.20	\$ 460.00
WATERLINE INSTALLATION OPEN TRENCHING (0 to 100-ft) PVC WATERLINE									
B16	Furnish and Install 4" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	50	\$ 22.11	\$ 1,105.50	\$ 35.00	\$ 1,750.00	\$ 95.45	\$ 4,772.50
B17	Furnish and Install 6" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	50	\$ 26.07	\$ 1,303.50	\$ 45.00	\$ 2,250.00	\$ 112.70	\$ 5,635.00
B18	Furnish and Install 8" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	50	\$ 39.24	\$ 1,962.00	\$ 55.00	\$ 2,750.00	\$ 162.15	\$ 8,107.50
B19	Furnish and Install 12" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	50	\$ 58.00	\$ 2,900.00	\$ 70.00	\$ 3,500.00	\$ 174.80	\$ 8,740.00
B20	Furnish and Install 16" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	50	\$ 89.92	\$ 4,496.00	\$ 100.00	\$ 5,000.00	\$ 201.25	\$ 10,062.50
B21	Furnish and Install 24" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) DIP WATERLINE	LF	50	\$ 140.23	\$ 7,011.50	\$ 150.00	\$ 7,500.00	\$ 262.20	\$ 13,110.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B22	Furnish and Install 4" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 56.69	\$ 2,834.50	\$ 55.00	\$ 2,750.00	\$ 172.50	\$ 8,625.00
B23	Furnish and Install 6" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 52.45	\$ 2,622.50	\$ 60.00	\$ 3,000.00	\$ 174.80	\$ 8,740.00
B24	Furnish and Install 8" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 54.60	\$ 2,730.00	\$ 80.00	\$ 4,000.00	\$ 248.40	\$ 12,420.00
B25	Furnish and Install 12" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 83.14	\$ 4,157.00	\$ 90.00	\$ 4,500.00	\$ 269.10	\$ 13,455.00
B26	Furnish and Install 16" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 116.29	\$ 5,814.50	\$ 150.00	\$ 7,500.00	\$ 281.75	\$ 14,087.50
B27	Furnish and Install 24" Diam. DIP Waterline (Up to 6-ft of Cover)	LF	50	\$ 168.57	\$ 8,428.50	\$ 200.00	\$ 10,000.00	\$ 354.20	\$ 17,710.00
B28	Extra Depth for Waterline Installations for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 25.17	\$ 1,258.50	\$ 35.00	\$ 1,750.00	\$ 46.00	\$ 2,300.00
WATERLINE INSTALLATION OPEN TRENCHING (Greater than 100-ft)									
B29	Furnish and Install 4" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	500	\$ 31.86	\$ 15,930.00	\$ 35.00	\$ 17,500.00	\$ 42.55	\$ 21,275.00
B30	Furnish and Install 6" Diam. C900 DR18 PVC Waterline (Up to 6-ft Cover)	LF	500	\$ 42.05	\$ 21,025.00	\$ 45.00	\$ 22,500.00	\$ 58.65	\$ 29,325.00
B31	Furnish and Install 8" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	500	\$ 52.96	\$ 26,480.00	\$ 48.00	\$ 24,000.00	\$ 83.95	\$ 41,975.00
B32	Furnish and Install 12" Diam. C900 DR18 PVC Waterline (Up to 6-ft Cover)	LF	500	\$ 71.47	\$ 35,735.00	\$ 55.00	\$ 27,500.00	\$ 96.60	\$ 48,300.00
B33	Furnish and Install 16" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	500	\$ 85.16	\$ 42,580.00	\$ 65.00	\$ 32,500.00	\$ 97.75	\$ 48,875.00
B34	Furnish and Install 24" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover)	LF	500	\$ 128.15	\$ 64,075.00	\$ 80.00	\$ 40,000.00	\$ 172.50	\$ 86,250.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B35	Extra Depth for Waterline Installation for Each Vertical Foot Over 6-ft Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	500	\$ 26.35	\$ 13,175.00	\$ 35.00	\$ 17,500.00	\$ 20.70	\$ 10,350.00
WATERLINE INSTALLATION BY AUGER BORING (0 to 100-ft)									
B36	Furnish and Install 4" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	50	\$ 83.07	\$ 4,153.50	\$ 150.00	\$ 7,500.00	\$ 167.90	\$ 8,395.00
B37	Furnish and Install 6" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	50	\$ 127.17	\$ 6,358.50	\$ 170.00	\$ 8,500.00	\$ 172.50	\$ 8,625.00
B38	Furnish and Install 8" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	50	\$ 178.97	\$ 8,948.50	\$ 210.00	\$ 10,500.00	\$ 175.95	\$ 8,797.50
B39	Furnish and Install 12" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	20	\$ 267.47	\$ 5,349.40	\$ 300.00	\$ 6,000.00	\$ 188.60	\$ 3,772.00
B40	Furnish and Install 16" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	20	\$ 386.36	\$ 7,727.20	\$ 380.00	\$ 7,600.00	\$ 213.90	\$ 4,278.00
B41	Furnish and Install 24" Diam. C900 DR18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	20	\$ 584.10	\$ 11,682.00	\$ 450.00	\$ 9,000.00	\$ 272.55	\$ 5,451.00
B42	Extra Depth for Waterline Installation by Auger Boring for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	10	\$ 35.79	\$ 357.90	\$ 500.00	\$ 5,000.00	\$ 8.05	\$ 80.50
WATERLINE INSTALLATION BY AUGER BORING (Greater than 100-ft)									
B43	Furnish and Install 4" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	200	\$ 79.36	\$ 15,872.00	\$ 100.00	\$ 20,000.00	\$ 163.30	\$ 32,660.00
B44	Furnish and Install 6" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	200	\$ 123.88	\$ 24,776.00	\$ 130.00	\$ 26,000.00	\$ 163.30	\$ 32,660.00
B45	Furnish and Install 8" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	200	\$ 147.23	\$ 29,446.00	\$ 170.00	\$ 34,000.00	\$ 163.30	\$ 32,660.00
B46	Furnish and Install 12" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	100	\$ 227.47	\$ 22,747.00	\$ 280.00	\$ 28,000.00	\$ 163.30	\$ 16,330.00
B47	Furnish and Install 16" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	100	\$ 325.15	\$ 32,515.00	\$ 330.00	\$ 33,000.00	\$ 163.30	\$ 16,330.00
B48	Furnish and Install 24" Diam. C900 DR 18 PVC Waterline (Up to 6-ft of Cover) by Auger Boring	LF	100	\$ 481.44	\$ 48,144.00	\$ 410.00	\$ 41,000.00	\$ 163.30	\$ 16,330.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B49	Extra Depth for Waterline Installation by Auger Boring for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 36.97	\$ 1,848.50	\$ 100.00	\$ 5,000.00	\$ 8.05	\$ 402.50
WATERLINE INSTALLATION BY PIPE BURSTING IN FRONT EASEMENT (0-ft to 500-ft)									
B50	Furnish and Install 4" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 59.00	\$ 2,950.00	\$ 65.00	\$ 3,250.00	\$ 125.35	\$ 6,267.50
B51	Furnish and Install 6" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 68.44	\$ 3,422.00	\$ 75.00	\$ 3,750.00	\$ 131.10	\$ 6,555.00
B52	Furnish and Install 8" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 82.60	\$ 4,130.00	\$ 90.00	\$ 4,500.00	\$ 138.00	\$ 6,900.00
B53	Furnish and Install 12" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 147.50	\$ 2,950.00	\$ 150.00	\$ 3,000.00	\$ 144.90	\$ 2,898.00
B54	Furnish and Install 16" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 413.00	\$ 8,260.00	\$ 320.00	\$ 6,400.00	\$ 270.25	\$ 5,405.00
B55	Furnish and Install 24" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 1,062.00	\$ 21,240.00	\$ 450.00	\$ 9,000.00	\$ 335.80	\$ 6,716.00
B56	Extra Depth for Waterline Installation by Pipe Bursting for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 88.50	\$ 4,425.00	\$ 50.00	\$ 2,500.00	\$ 18.40	\$ 920.00
WATERLINE INSTALLATION BY PIPE BURSTING IN FRONT EASEMENT (Greater th									
B57	Furnish and Install 4" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 56.64	\$ 2,832.00	\$ 60.00	\$ 3,000.00	\$ 125.35	\$ 6,267.50
B58	Furnish and Install 6" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 63.72	\$ 3,186.00	\$ 70.00	\$ 3,500.00	\$ 131.10	\$ 6,555.00
B59	Furnish and Install 8" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 74.34	\$ 3,717.00	\$ 85.00	\$ 4,250.00	\$ 138.00	\$ 6,900.00
B60	Furnish and Install 12" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 138.06	\$ 2,761.20	\$ 150.00	\$ 3,000.00	\$ 144.90	\$ 2,898.00
B61	Furnish and Install 16" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 413.00	\$ 8,260.00	\$ 320.00	\$ 6,400.00	\$ 270.25	\$ 5,405.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B62	Furnish and Install 24" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 885.00	\$ 17,700.00	\$ 425.00	\$ 8,500.00	\$ 335.80	\$ 6,716.00
B63	Extra Depth for Waterline Installation by Pipe Bursting for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 88.50	\$ 4,425.00	\$ 50.00	\$ 2,500.00	\$ 18.40	\$ 920.00
TEMPORARY WATER SUPPLY IN FRONT EASEMENT									
B64	Furnish and Install 2" Temporary Water Supply for Pipe Bursting	LF	50	\$ 47.20	\$ 2,360.00	\$ 40.00	\$ 2,000.00	\$ 19.55	\$ 977.50
B65	Furnish and Install 4" Temporary Water Supply for Pipe Bursting	LF	50	\$ 53.10	\$ 2,655.00	\$ 45.00	\$ 2,250.00	\$ 29.90	\$ 1,495.00
B66	Connect and Disconnect Service to Temporary Water Supply	EA	10	\$ 442.50	\$ 4,425.00	\$ 500.00	\$ 5,000.00	\$ 1,177.60	\$ 11,776.00
POINT REPAIR IN FRONT EASEMENT									
B67	Point Repair in Front Easement	EA	10	\$ 1,867.35	\$ 18,673.50	\$ 5,000.00	\$ 50,000.00	\$ 4,673.60	\$ 46,736.00
WATERLINE INSTALLATION BY PIPE BURSTING IN REAR EASEMENT (0-ft to 500-ft)									
B68	Furnish and Install 4" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 67.26	\$ 3,363.00	\$ 65.00	\$ 3,250.00	\$ 125.35	\$ 6,267.50
B69	Furnish and Install 6" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 76.70	\$ 3,835.00	\$ 75.00	\$ 3,750.00	\$ 131.10	\$ 6,555.00
B70	Furnish and Install 8" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	50	\$ 94.40	\$ 4,720.00	\$ 90.00	\$ 4,500.00	\$ 138.00	\$ 6,900.00
B71	Furnish and Install 12" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 159.30	\$ 3,186.00	\$ 150.00	\$ 3,000.00	\$ 144.90	\$ 2,898.00
B72	Furnish and Install 16" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 413.00	\$ 8,260.00	\$ 320.00	\$ 6,400.00	\$ 270.25	\$ 5,405.00
B73	Furnish and Install 24" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	20	\$ 1,180.00	\$ 23,600.00	\$ 450.00	\$ 9,000.00	\$ 335.80	\$ 6,716.00
B74	Extra Depth for Waterline Installation by Pipe Bursting for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 118.00	\$ 5,900.00	\$ 50.00	\$ 2,500.00	\$ 18.40	\$ 920.00

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City Project No.: 19037A									
Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
WATERLINE INSTALLATION BY PIPE BURSTING IN REAR EASEMENT (Greater than 500-ft)									
B75	Install 4" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	500	\$ 59.00	\$ 29,500.00	\$ 60.00	\$ 30,000.00	\$ 108.10	\$ 54,050.00
B76	Install 6" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	500	\$ 68.44	\$ 34,220.00	\$ 70.00	\$ 35,000.00	\$ 115.00	\$ 57,500.00
B77	Install 8" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	500	\$ 82.60	\$ 41,300.00	\$ 85.00	\$ 42,500.00	\$ 121.90	\$ 60,950.00
B78	Install 12" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	100	\$ 147.50	\$ 14,750.00	\$ 150.00	\$ 15,000.00	\$ 128.80	\$ 12,880.00
B79	Install 16" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	100	\$ 413.00	\$ 41,300.00	\$ 320.00	\$ 32,000.00	\$ 254.15	\$ 25,415.00
B80	Install 24" Diam. C900 DR18 Fusible PVC Waterline (Up to 6-ft of Cover) by Pipe Bursting	LF	100	\$ 590.00	\$ 59,000.00	\$ 425.00	\$ 42,500.00	\$ 319.70	\$ 31,970.00
B81	Extra Depth for Waterline Installation by Pipe Bursting for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 118.00	\$ 5,900.00	\$ 50.00	\$ 2,500.00	\$ 18.40	\$ 920.00
TEMPORARY WATER SUPPLY IN REAR EASEMENT									
B82	Furnish and Install 2" Temporary Water Supply for Pipe Bursting	LF	500	\$ 44.25	\$ 22,125.00	\$ 40.00	\$ 20,000.00	\$ 18.40	\$ 9,200.00
B83	Furnish and Install 4" Temporary Water Supply for Pipe Bursting	LF	500	\$ 47.20	\$ 23,600.00	\$ 45.00	\$ 22,500.00	\$ 29.90	\$ 14,950.00
B84	Connect and Disconnect Service to Temporary Water Supply	EA	50	\$ 442.50	\$ 22,125.00	\$ 500.00	\$ 25,000.00	\$ 1,177.60	\$ 58,880.00
POINT REPAIR IN REAR EASEMENT									
B85	Point Repair in Rear Easement	EA	10	\$ 1,811.30	\$ 18,113.00	\$ 5,000.00	\$ 50,000.00	\$ 4,673.60	\$ 46,736.00
WATERLINE INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (0-300-ft) USING WALK OVER TECHNOLOGY									
B86	Furnish and Install 4" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	50	\$ 176.67	\$ 8,833.50	\$ 140.00	\$ 7,000.00	\$ 115.00	\$ 5,750.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B87	Furnish and Install 6" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	50	\$ 210.52	\$ 10,526.00	\$ 150.00	\$ 7,500.00	\$ 149.50	\$ 7,475.00
B88	Furnish and Install 8" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	50	\$ 244.43	\$ 12,221.50	\$ 200.00	\$ 10,000.00	\$ 178.25	\$ 8,912.50
B89	Furnish and Install 12" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	20	\$ 457.86	\$ 9,157.20	\$ 300.00	\$ 6,000.00	\$ 287.50	\$ 5,750.00
B90	Furnish and install 16" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	20	\$ 569.73	\$ 11,394.60	\$ 450.00	\$ 9,000.00	\$ 379.50	\$ 7,590.00
B91	Furnish and install 24" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	20	\$ 750.65	\$ 15,013.00	\$ 500.00	\$ 10,000.00	\$ 649.75	\$ 12,995.00
B92	Furnish and Install Air Release Valves and Manhole	EA	2	\$ 8,342.60	\$ 16,685.20	\$ 12,000.00	\$ 24,000.00	\$ 10,925.00	\$ 21,850.00
B93	Construct Drill Pads	EA	2	\$ 5,900.00	\$ 11,800.00	\$ 5,000.00	\$ 10,000.00	\$ 11,500.00	\$ 23,000.00
WATERLINE INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (Greater than 300-ft) USING WIRELINE GUIDANCE TECHNOLOGY									
B94	Furnish and Install 4" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	300	\$ 137.47	\$ 41,241.00	\$ 180.00	\$ 54,000.00	\$ 143.75	\$ 43,125.00
B95	Furnish and Install 6" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	300	\$ 169.26	\$ 50,778.00	\$ 190.00	\$ 57,000.00	\$ 178.25	\$ 53,475.00
B96	Furnish and Install 8" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	300	\$ 201.78	\$ 60,534.00	\$ 240.00	\$ 72,000.00	\$ 207.00	\$ 62,100.00
B97	Furnish and Install 12" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	100	\$ 334.83	\$ 33,483.00	\$ 340.00	\$ 34,000.00	\$ 293.25	\$ 29,325.00
B98	Furnish and Install 16" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	100	\$ 425.98	\$ 42,598.00	\$ 490.00	\$ 49,000.00	\$ 396.75	\$ 39,675.00
B99	Furnish and Install 24" Diam. C900 DR 18 Fusible PVC Waterline by HDD	LF	100	\$ 513.30	\$ 51,330.00	\$ 540.00	\$ 54,000.00	\$ 649.75	\$ 64,975.00
B100	Furnish and Install Air Release Valves and Manhole	EA	10	\$ 8,295.40	\$ 82,954.00	\$ 9,000.00	\$ 90,000.00	\$ 10,925.00	\$ 109,250.00
B101	Construct Drill Pads	EA	10	\$ 5,900.00	\$ 59,000.00	\$ 4,000.00	\$ 40,000.00	\$ 11,500.00	\$ 115,000.00
WATERLINE AND CASING INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (0-300-ft) USING WALK OVER GUIDANCE TECHNOLOGY									

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B102	Furnish and Install 4" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 10-inch steel casing by HDD	LF	50	\$ 354.42	\$ 17,721.00	\$ 360.00	\$ 18,000.00	\$ 313.95	\$ 15,697.50
B103	Furnish and Install 6" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 12-inch Steel Casing by HDD	LF	50	\$ 392.69	\$ 19,634.50	\$ 400.00	\$ 20,000.00	\$ 319.70	\$ 15,985.00
B104	Furnish and Install 8" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 16-inch Steel Casing by HDD	LF	50	\$ 437.51	\$ 21,875.50	\$ 460.00	\$ 23,000.00	\$ 419.75	\$ 20,987.50
B105	Furnish and Install 12" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 18-inch Steel Casing by HDD	LF	20	\$ 645.01	\$ 12,900.20	\$ 550.00	\$ 11,000.00	\$ 479.55	\$ 9,591.00
B106	Furnish and Install 16" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 24-inch Steel Casing by HDD	LF	20	\$ 792.33	\$ 15,846.60	\$ 650.00	\$ 13,000.00	\$ 575.00	\$ 11,500.00
B107	Furnish and Install 24" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 30-inch Steel Casing by HDD	LF	20	\$ 1,100.08	\$ 22,001.60	\$ 760.00	\$ 15,200.00	\$ 799.25	\$ 15,985.00
B108	Furnish and Install Air Release Valves and Manhole	EA	2	\$ 8,360.30	\$ 16,720.60	\$ 12,000.00	\$ 24,000.00	\$ 10,925.00	\$ 21,850.00
B109	Construct Drill Pads	EA	2	\$ 5,900.00	\$ 11,800.00	\$ 5,000.00	\$ 10,000.00	\$ 11,500.00	\$ 23,000.00
WATERLINE AND CASING INSTALLATION BY HORIZONTAL DIRECTIONAL DRILLING (GREATER than 300-ft) USING WIRE LINE GUIDANCE TECHNOLOGY									
B110	Furnish and Install 4" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 10-inch steel casing by HDD	LF	50	\$ 359.94	\$ 17,997.00	\$ 180.00	\$ 9,000.00	\$ 313.95	\$ 15,697.50
B111	Furnish and Install 6" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 12-inch Steel Casing by HDD	LF	50	\$ 447.10	\$ 22,355.00	\$ 190.00	\$ 9,500.00	\$ 319.70	\$ 15,985.00
B112	Furnish and Install 8" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 16-inch Steel Casing by HDD	LF	50	\$ 512.58	\$ 25,629.00	\$ 240.00	\$ 12,000.00	\$ 419.75	\$ 20,987.50
B113	Furnish and Install 12" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 18-inch Steel Casing by HDD	LF	20	\$ 724.33	\$ 14,486.60	\$ 340.00	\$ 6,800.00	\$ 479.55	\$ 9,591.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B114	Furnish and Install 16" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 24-inch Steel Casing by HDD	LF	20	\$ 871.65	\$ 17,433.00	\$ 490.00	\$ 9,800.00	\$ 575.00	\$ 11,500.00
B115	Furnish and Install 24" C900 DR 18 Fusible PVC Waterline with Casing Spacers and 30-inch Steel Casing by HDD	LF	20	\$ 1,216.14	\$ 24,322.80	\$ 540.00	\$ 10,800.00	\$ 799.25	\$ 15,985.00
B116	Furnish and Install Air Release Valves and Manhole	EA	2	\$ 8,361.48	\$ 16,722.96	\$ 12,000.00	\$ 24,000.00	\$ 10,925.00	\$ 21,850.00
B117	Construct Drill Pads	EA	2	\$ 5,900.00	\$ 11,800.00	\$ 5,000.00	\$ 10,000.00	\$ 11,500.00	\$ 23,000.00
GATE VALVES									
B118	Furnish and Install 4" R/W Gate Valve and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	10	\$ 757.40	\$ 7,574.00	\$ 800.00	\$ 8,000.00	\$ 813.05	\$ 8,130.50
B119	Furnish and Install 6" R/W Gate Valve and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	10	\$ 884.34	\$ 8,843.40	\$ 1,000.00	\$ 10,000.00	\$ 1,009.70	\$ 10,097.00
B120	Furnish and Install 8" R/W Gate Valve and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	10	\$ 1,275.55	\$ 12,755.50	\$ 1,500.00	\$ 15,000.00	\$ 1,526.05	\$ 15,260.50
B121	Furnish and Install 12" R/W Gate Valve and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	5	\$ 2,460.80	\$ 12,304.00	\$ 2,750.00	\$ 13,750.00	\$ 2,653.05	\$ 13,265.25
B122	Furnish and Install 16" R/W Gate Valve c/w Bevel Gear and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	5	\$ 7,241.07	\$ 36,205.35	\$ 8,600.00	\$ 43,000.00	\$ 7,281.80	\$ 36,409.00
B123	Furnish and Install 24" R/W Gate Valve c/w Bevel Gear and Valve Box (MJ with Mega Lug Joint Restraint fitting)	EA	5	\$ 20,478.06	\$ 102,390.30	\$ 25,000.00	\$ 125,000.00	\$ 22,954.00	\$ 114,770.00
DIP FITTINGS									
B124	Furnish and Install 4" 11.25 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 165.63	\$ 1,656.30	\$ 150.00	\$ 1,500.00	\$ 174.80	\$ 1,748.00
B125	Furnish and Install 4" 22.5 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 166.97	\$ 1,669.70	\$ 150.00	\$ 1,500.00	\$ 175.95	\$ 1,759.50
B126	Furnish and Install 4" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 166.77	\$ 1,667.70	\$ 150.00	\$ 1,500.00	\$ 178.25	\$ 1,782.50
B127	Furnish and Install 4" 90 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 176.39	\$ 1,763.90	\$ 160.00	\$ 1,600.00	\$ 187.45	\$ 1,874.50

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B128	Furnish and Install 4" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 132.51	\$ 1,325.10	\$ 160.00	\$ 1,600.00	\$ 132.25	\$ 1,322.50
B129	Furnish and Install 4" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 329.65	\$ 3,296.50	\$ 220.00	\$ 2,200.00	\$ 284.05	\$ 2,840.50
B130	Furnish and Install 4" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 226.79	\$ 2,267.90	\$ 225.00	\$ 2,250.00	\$ 293.25	\$ 2,932.50
B131	Furnish and Install 6" 11.25 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 206.43	\$ 2,064.30	\$ 200.00	\$ 2,000.00	\$ 224.25	\$ 2,242.50
B132	Furnish and Install 6" 22.5 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 204.19	\$ 2,041.90	\$ 200.00	\$ 2,000.00	\$ 221.95	\$ 2,219.50
B133	Furnish and Install 6" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 209.57	\$ 2,095.70	\$ 200.00	\$ 2,000.00	\$ 257.60	\$ 2,576.00
B134	Furnish and Install 6" 90 Deg Bend (MJ with Mega Lug Joint Restraint fitting)	EA	10	\$ 223.02	\$ 2,230.20	\$ 225.00	\$ 2,250.00	\$ 272.55	\$ 2,725.50
B135	Furnish and Install 6" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 145.99	\$ 1,459.90	\$ 200.00	\$ 2,000.00	\$ 209.30	\$ 2,093.00
B136	Furnish and Install 6" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 394.21	\$ 3,942.10	\$ 360.00	\$ 3,600.00	\$ 509.45	\$ 5,094.50
B137	Furnish and Install 6" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 301.00	\$ 3,010.00	\$ 320.00	\$ 3,200.00	\$ 420.90	\$ 4,209.00
B138	Furnish and Install 8" 11.25 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 258.51	\$ 2,585.10	\$ 275.00	\$ 2,750.00	\$ 419.75	\$ 4,197.50
B139	Furnish and Install 8" 22.5 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 266.13	\$ 2,661.30	\$ 275.00	\$ 2,750.00	\$ 428.95	\$ 4,289.50
B140	Furnish and Install 8" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 268.38	\$ 2,683.80	\$ 280.00	\$ 2,800.00	\$ 431.25	\$ 4,312.50
B141	Furnish and Install 8" 90 Deg Bend (MJ with Mega Lug Restraint Fitting)	EA	10	\$ 287.66	\$ 2,876.60	\$ 300.00	\$ 3,000.00	\$ 454.25	\$ 4,542.50
B142	Furnish and Install 8" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 236.12	\$ 2,361.20	\$ 220.00	\$ 2,200.00	\$ 353.05	\$ 3,530.50
B143	Furnish and Install 8" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 472.37	\$ 4,723.70	\$ 570.00	\$ 5,700.00	\$ 711.85	\$ 7,118.50

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B144	Furnish and Install 8" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 400.87	\$ 4,008.70	\$ 430.00	\$ 4,300.00	\$ 656.65	\$ 6,566.50
B145	Furnish and Install 12" 11.25 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 436.76	\$ 4,367.60	\$ 520.00	\$ 5,200.00	\$ 635.95	\$ 6,359.50
B146	Furnish and Install 12" 22.5 Deg. Bend (MJ with MEGA LUG Joint Restraint fitting)	EA	10	\$ 447.07	\$ 4,470.70	\$ 530.00	\$ 5,300.00	\$ 647.45	\$ 6,474.50
B147	Furnish and Install 12" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 470.39	\$ 4,703.90	\$ 560.00	\$ 5,600.00	\$ 675.05	\$ 6,750.50
B148	Furnish and Install 12" 90 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 509.40	\$ 5,094.00	\$ 620.00	\$ 6,200.00	\$ 721.05	\$ 7,210.50
B149	Furnish and Install 12" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 402.68	\$ 4,026.80	\$ 315.00	\$ 3,150.00	\$ 454.25	\$ 4,542.50
B150	Furnish and Install 12" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 977.29	\$ 9,772.90	\$ 1,250.00	\$ 12,500.00	\$ 1,391.50	\$ 13,915.00
B151	Furnish and Install 12" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 709.94	\$ 7,099.40	\$ 900.00	\$ 9,000.00	\$ 1,136.20	\$ 11,362.00
B152	Furnish and Install 16" 11.25 Deg. Bend (MJ with MEGA LUG Joint Restraint fitting)	EA	10	\$ 893.12	\$ 8,931.20	\$ 1,115.00	\$ 11,150.00	\$ 1,135.05	\$ 11,350.50
B153	Furnish and Install 16" 22.5 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 872.95	\$ 8,729.50	\$ 1,115.00	\$ 11,150.00	\$ 1,112.05	\$ 11,120.50
B154	Furnish and Install 16" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 887.74	\$ 8,877.40	\$ 1,115.00	\$ 11,150.00	\$ 1,129.30	\$ 11,293.00
B155	Furnish and Install 16" 90 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 1,033.02	\$ 10,330.20	\$ 1,300.00	\$ 13,000.00	\$ 1,300.65	\$ 13,006.50
B156	Furnish and Install 16" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 764.88	\$ 7,648.80	\$ 700.00	\$ 7,000.00	\$ 734.85	\$ 7,348.50
B157	Furnish and Install 16" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 2,281.47	\$ 22,814.70	\$ 2,980.00	\$ 29,800.00	\$ 2,911.80	\$ 29,118.00
B158	Furnish and Install 16" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 1,544.62	\$ 15,446.20	\$ 1,900.00	\$ 19,000.00	\$ 1,955.00	\$ 19,550.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B159	Furnish and Install 24" 11.25 Deg. Bend (MJ with MEGA LUG Joint Restraint fitting)	EA	10	\$ 4,286.57	\$ 42,865.70	\$ 2,050.00	\$ 20,500.00	\$ 2,032.05	\$ 20,320.50
B160	Furnish and Install 24" 22.5 Deg. Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 3,351.66	\$ 33,516.60	\$ 2,050.00	\$ 20,500.00	\$ 2,033.20	\$ 20,332.00
B161	Furnish and Install 24" 45 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 3,416.68	\$ 34,166.80	\$ 2,050.00	\$ 20,500.00	\$ 2,104.50	\$ 21,045.00
B162	Furnish and Install 24" 90 Deg Bend (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 3,846.25	\$ 38,462.50	\$ 2,650.00	\$ 26,500.00	\$ 2,579.45	\$ 25,794.50
B163	Furnish and Install 24" Reducers - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 2,143.93	\$ 21,439.30	\$ 1,800.00	\$ 18,000.00	\$ 1,542.15	\$ 15,421.50
B164	Furnish and Install 24" Crosses - All Sizes (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 4,560.70	\$ 45,607.00	\$ 4,900.00	\$ 49,000.00	\$ 4,680.50	\$ 46,805.00
B165	Furnish and Install 24" Tees (MJ with Mega Lug Joint Restraint Fitting)	EA	10	\$ 3,320.61	\$ 33,206.10	\$ 3,400.00	\$ 34,000.00	\$ 3,344.20	\$ 33,442.00
SHORT WATER SERVICE (Up to 14-ft)									
B166	Furnish and Install 5/8" to 3/4" Copper or HDPE Service	EA	10	\$ 541.42	\$ 5,414.20	\$ 500.00	\$ 5,000.00	\$ 1,267.30	\$ 12,673.00
B167	Furnish and Install 1" to 2" Copper or HDPE Service	EA	10	\$ 962.70	\$ 9,627.00	\$ 1,200.00	\$ 12,000.00	\$ 1,541.00	\$ 15,410.00
LONG WATER SERVICE (Greater than 14-ft)									
B168	Furnish and Install 5/8" to 3/4" Copper or HDPE Service	EA	10	\$ 668.41	\$ 6,684.10	\$ 550.00	\$ 5,500.00	\$ 1,580.10	\$ 15,801.00
B169	Furnish and Install 1" to 2" Copper or HDPE Service	EA	10	\$ 1,534.00	\$ 15,340.00	\$ 1,300.00	\$ 13,000.00	\$ 1,851.50	\$ 18,515.00
RECONNECT EXISTING WATER SERVICE TO WATERLINE									
B170	Reconnect 5/8" to 3/4" Copper or HDPE Service	EA	10	\$ 318.60	\$ 3,186.00	\$ 350.00	\$ 3,500.00	\$ 939.55	\$ 9,395.50
B171	Reconnect 1" to 2" Copper or HDPE Service	EA	10	\$ 572.30	\$ 5,723.00	\$ 600.00	\$ 6,000.00	\$ 1,302.95	\$ 13,029.50
CONNECT NEW WATERLINE TO EXISTING WATERLINE BY CONVENTIONAL METHOD WITH SLEEVE AND TEE									
B172	Connection to Existing 4" Waterline	EA	10	\$ 959.78	\$ 9,597.80	\$ 1,000.00	\$ 10,000.00	\$ 4,698.90	\$ 46,989.00
B173	Connection to Existing 6" Waterline	EA	10	\$ 1,053.58	\$ 10,535.80	\$ 1,100.00	\$ 11,000.00	\$ 4,698.90	\$ 46,989.00
B174	Connection to Existing 8" Waterline	EA	10	\$ 1,181.73	\$ 11,817.30	\$ 1,250.00	\$ 12,500.00	\$ 4,798.95	\$ 47,989.50

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City Project No.: 19037A									
Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B175	Connection to Existing 12" Waterline	EA	5	\$ 1,513.88	\$ 7,569.40	\$ 2,500.00	\$ 12,500.00	\$ 7,793.55	\$ 38,967.75
B176	Connection to Existing 16" Waterline	EA	5	\$ 2,323.54	\$ 11,617.70	\$ 4,000.00	\$ 20,000.00	\$ 7,959.15	\$ 39,795.75
B177	Connection to Existing 24" Waterline	EA	5	\$ 3,732.71	\$ 18,663.55	\$ 7,000.00	\$ 35,000.00	\$ 8,190.30	\$ 40,951.50
CONNECT NEW WATERLINE TO EXISTING WATERLINE BY HOT TAPPING WITH SLEEVE AND VALVE (Materials ONLY)									
B178	Furnish 4" Tapping Sleeve c/w 2" RW Gate Valve	EA	2	\$ 457.84	\$ 915.68	\$ 480.00	\$ 960.00	\$ 1,384.60	\$ 2,769.20
B179	Furnish 6" Tapping Sleeve c/w 4" RW Gate Valve	EA	2	\$ 1,456.71	\$ 2,913.42	\$ 1,500.00	\$ 3,000.00	\$ 1,631.85	\$ 3,263.70
B180	Furnish 8" Tapping Sleeve c/w 4" RW Gate Valve	EA	2	\$ 1,527.81	\$ 3,055.62	\$ 1,560.00	\$ 3,120.00	\$ 1,711.20	\$ 3,422.40
B181	Furnish 8" Tapping Sleeve c/w 6" RW Gate Valve	EA	2	\$ 1,717.49	\$ 3,434.98	\$ 1,750.00	\$ 3,500.00	\$ 1,923.95	\$ 3,847.90
B182	Furnish 12" Tapping Sleeve c/w 8" RW Gate Valve	EA	2	\$ 2,703.68	\$ 5,407.36	\$ 2,750.00	\$ 5,500.00	\$ 3,029.10	\$ 6,058.20
B183	Furnish 16" Tapping Sleeve c/w 12" RW Gate Valve	EA	2	\$ 4,930.93	\$ 9,861.86	\$ 5,015.00	\$ 10,030.00	\$ 5,525.75	\$ 11,051.50
B184	Furnish 4" Tapping Sleeve c/w 4" RW Gate Valve	EA	2	\$ 1,504.50	\$ 3,009.00	\$ 650.00	\$ 1,300.00	\$ 1,631.85	\$ 3,263.70
B185	Furnish 6" Tapping Sleeve c/w 6" RW Gate Valve	EA	2	\$ 1,648.46	\$ 3,296.92	\$ 1,680.00	\$ 3,360.00	\$ 1,846.90	\$ 3,693.80
B186	Furnish 8" Tapping Sleeve c/w 8" RW Gate Valve	EA	2	\$ 2,274.75	\$ 4,549.50	\$ 2,315.00	\$ 4,630.00	\$ 2,548.40	\$ 5,096.80
B187	Furnish 12" Tapping Sleeve c/w 12" RW Gate Valve	EA	1	\$ 4,356.27	\$ 4,356.27	\$ 4,440.00	\$ 4,440.00	\$ 2,440.30	\$ 2,440.30
B188	Furnish 16" Tapping Sleeve c/w 16" RW Gate Valve	EA	1	\$ 18,413.90	\$ 18,413.90	\$ 18,500.00	\$ 18,500.00	\$ 10,317.80	\$ 10,317.80
B189	Furnish 24" Tapping Sleeve c/w 24" RW Gate Valve	EA	1	\$ 37,226.35	\$ 37,226.35	\$ 35,000.00	\$ 35,000.00	\$ 41,722.00	\$ 41,722.00
CONNECT NEW WATERLINE TO EXISTING WATERLINE BY HOT TAPPING WITH SLEEVE AND VALVE									
B190	Furnish and Install 4" Tapping Sleeve c/w 2" RW Gate Valve	EA	10	\$ 2,690.40	\$ 26,904.00	\$ 3,000.00	\$ 30,000.00	\$ 5,801.75	\$ 58,017.50
B191	Furnish and Install 6" Tapping Sleeve c/w 4" RW Gate Valve	EA	10	\$ 2,832.00	\$ 28,320.00	\$ 3,600.00	\$ 36,000.00	\$ 5,960.45	\$ 59,604.50
B192	Furnish and Install 8" Tapping Sleeve c/w 4" RW Gate Valve	EA	10	\$ 3,068.00	\$ 30,680.00	\$ 4,000.00	\$ 40,000.00	\$ 5,967.35	\$ 59,673.50
B193	Furnish and Install 8" Tapping Sleeve c/w 6" RW Gate Valve	EA	10	\$ 3,068.00	\$ 30,680.00	\$ 4,800.00	\$ 48,000.00	\$ 6,575.70	\$ 65,757.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B194	Furnish and Install 12" Tapping Sleeve c/w 8" RW Gate Valve	EA	5	\$ 4,130.00	\$ 20,650.00	\$ 5,500.00	\$ 27,500.00	\$ 8,443.30	\$ 42,216.50
B195	Furnish and Install 16" Tapping Sleeve c/w 12" RW Gate Valve	EA	5	\$ 7,080.00	\$ 35,400.00	\$ 7,800.00	\$ 39,000.00	\$ 13,004.20	\$ 65,021.00
B196	Furnish and Install 24" Tapping Sleeve c/w 16" RW Gate Valve	EA	5	\$ 17,700.00	\$ 88,500.00	\$ 25,000.00	\$ 125,000.00	\$ 26,770.85	\$ 133,854.25
B197	Furnish and Install 4" Tapping Sleeve c/w 4" RW Gate Valve	EA	10	\$ 2,690.40	\$ 26,904.00	\$ 3,500.00	\$ 35,000.00	\$ 5,960.45	\$ 59,604.50
B198	Furnish and Install 6" Tapping Sleeve c/w 6" RW Gate Valve	EA	10	\$ 2,920.50	\$ 29,205.00	\$ 3,650.00	\$ 36,500.00	\$ 6,476.80	\$ 64,768.00
B199	Furnish and Install 8" Tapping Sleeve c/w 8" RW Gate Valve	EA	10	\$ 3,156.50	\$ 31,565.00	\$ 5,000.00	\$ 50,000.00	\$ 7,508.35	\$ 75,083.50
B200	Furnish and Install 12" Tapping Sleeve c/w 12" RW Gate Valve	EA	5	\$ 6,136.00	\$ 30,680.00	\$ 7,000.00	\$ 35,000.00	\$ 11,041.15	\$ 55,205.75
B201	Furnish and Install 16" Tapping Sleeve c/w 16" RW Gate Valve	EA	5	\$ 16,756.00	\$ 83,780.00	\$ 20,000.00	\$ 100,000.00	\$ 24,841.15	\$ 124,205.75
B202	Furnish and Install 24" Tapping Sleeve c/w 24" RW Gate Valve	EA	5	\$ 40,474.00	\$ 202,370.00	\$ 40,000.00	\$ 200,000.00	\$ 59,695.35	\$ 298,476.75
FIRE HYDRANT									
B203	Furnish and Install FH Assembly Long Lead (Tee, Pipe and Valve) Greater than 14' in Length	EA	10	\$ 3,780.27	\$ 37,802.70	\$ 4,800.00	\$ 48,000.00	\$ 8,699.75	\$ 86,997.50
B204	Furnish and Install FH Assembly Short Lead (Tee, Pipe and Valve) Up to 14' in Length	EA	10	\$ 3,794.70	\$ 37,947.00	\$ 4,800.00	\$ 48,000.00	\$ 7,113.90	\$ 71,139.00
B205	Remove Fire Hydrant	EA	10	\$ 1,248.82	\$ 12,488.20	\$ 1,000.00	\$ 10,000.00	\$ 1,944.65	\$ 19,446.50
WATER METERS BOXES									
B206	Furnish and Install Water Meter Box	EA	10	\$ 672.60	\$ 6,726.00	\$ 500.00	\$ 5,000.00	\$ 336.95	\$ 3,369.50
ADJUST VALVE BOX									
B207	Adjust Valve Box, 12" and Under	EA	10	\$ 365.21	\$ 3,652.10	\$ 350.00	\$ 3,500.00	\$ 442.75	\$ 4,427.50
B208	Adjust Valve Box, Greater than 12"	EA	10	\$ 365.21	\$ 3,652.10	\$ 500.00	\$ 5,000.00	\$ 476.10	\$ 4,761.00
TRENCH SAFETY									

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B209	Trench Safety for Remove and Install Waterline (Up to 6-ft of Cover)	LF	1000	\$ 11.80	\$ 11,800.00	\$ 5.00	\$ 5,000.00	\$ 2.91	\$ 2,910.00
B210	Extra Depth for Trench Safety for Remove and Install for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	10	\$ 29.50	\$ 295.00	\$ 50.00	\$ 500.00	\$ 516.35	\$ 5,163.50
B211	Trench Safety for Auger Boring/Pipe Bursting Pits (Up to 6-ft of Cover)	EA	10	\$ 2,950.00	\$ 29,500.00	\$ 2,500.00	\$ 25,000.00	\$ 5,564.85	\$ 55,648.50
B212	Extra Depth for Trench Safety for Auger Boring Pits for Each Vertical Foot Over 6-ft of Cover, Added to Each (All Pipe Sizes)	EA	10	\$ 1,180.00	\$ 11,800.00	\$ 1,000.00	\$ 10,000.00	\$ 794.65	\$ 7,946.50
REPAIR ITEMS									
B213	Furnish and Install Cement Stabilized Sand	TONS	100	\$ 59.00	\$ 5,900.00	\$ 60.00	\$ 6,000.00	\$ 98.90	\$ 9,890.00
B214	Clearing and Grubbing	AC	1	\$ 2,950.00	\$ 2,950.00	\$ 2,500.00	\$ 2,500.00	\$ 5,819.00	\$ 5,819.00
B215	Furnish and Install Asphalt Pavement Repair	SY	100	\$ 100.30	\$ 10,030.00	\$ 85.00	\$ 8,500.00	\$ 134.55	\$ 13,455.00
B216	Sawcut Asphalt Per 2" lift greater than 2" thickness	LF	1000	\$ 1.77	\$ 1,770.00	\$ 2.00	\$ 2,000.00	\$ 1.15	\$ 1,150.00
B217	Furnish and Install Asphalt Overlay Per 2" lift greater than 2" thickness	SY	100	\$ 29.50	\$ 2,950.00	\$ 28.00	\$ 2,800.00	\$ 62.10	\$ 6,210.00
B218	Remove Asphalt Per 2" lift greater than 2" thickness	SY	500	\$ 5.90	\$ 2,950.00	\$ 10.00	\$ 5,000.00	\$ 17.25	\$ 8,625.00
B219	Furnish and Install Concrete Pavement Repair	SF	50	\$ 92.93	\$ 4,646.50	\$ 45.00	\$ 2,250.00	\$ 83.95	\$ 4,197.50
B220	Sawcut Concrete Per 2" lift greater than 8" thickness	LF	100	\$ 2.95	\$ 295.00	\$ 6.50	\$ 650.00	\$ 1.73	\$ 173.00
B221	Furnish and Install Concrete Thickness per 2" Greater than 8" thickness	SF	50	\$ 177.00	\$ 8,850.00	\$ 65.00	\$ 3,250.00	\$ 20.70	\$ 1,035.00
B222	Remove Concrete Per 2" lift greater than 8" thickness	SF	50	\$ 17.70	\$ 885.00	\$ 20.00	\$ 1,000.00	\$ 24.15	\$ 1,207.50
B223	Furnish and Install Concrete Driveway Repair	SF	100	\$ 9.74	\$ 974.00	\$ 16.00	\$ 1,600.00	\$ 20.70	\$ 2,070.00
B224	Furnish and Install Concrete Curb Ramp Repair	SF	50	\$ 26.55	\$ 1,327.50	\$ 35.00	\$ 1,750.00	\$ 36.80	\$ 1,840.00
B225	Furnish and Install Concrete Curb and Gutter Repair	LF	100	\$ 21.24	\$ 2,124.00	\$ 35.00	\$ 3,500.00	\$ 60.95	\$ 6,095.00
B226	Furnish and Install Concrete Valley Gutter Repair	LF	100	\$ 47.20	\$ 4,720.00	\$ 42.00	\$ 4,200.00	\$ 52.90	\$ 5,290.00
B227	Furnish and Install Concrete Sidewalk Repair	SF	100	\$ 9.44	\$ 944.00	\$ 15.00	\$ 1,500.00	\$ 17.25	\$ 1,725.00
B228	Furnish and Install Seeding	SY	100	\$ 1.30	\$ 130.00	\$ 2.00	\$ 200.00	\$ 5.18	\$ 518.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B229	Furnish and Install Sodding	SY	50	\$ 7.08	\$ 354.00	\$ 15.00	\$ 750.00	\$ 23.00	\$ 1,150.00
B230	Furnish and Install Wooden Fence	LF	100	\$ 41.30	\$ 4,130.00	\$ 45.00	\$ 4,500.00	\$ 48.30	\$ 4,830.00
B231	Furnish and Install Chain Link Fencing	LF	100	\$ 53.10	\$ 5,310.00	\$ 40.00	\$ 4,000.00	\$ 48.30	\$ 4,830.00
B232	Remove and Reinstall Residential Mailbox	EA	10	\$ 236.00	\$ 2,360.00	\$ 250.00	\$ 2,500.00	\$ 402.50	\$ 4,025.00
B233	Haul off Concrete (Greater than 8 inches in thickness)/Asphalt (Greater than 2 inches thickness)	HR	50	\$ 123.90	\$ 6,195.00	\$ 95.00	\$ 4,750.00	\$ 110.40	\$ 5,520.00
WATERLINE ABANDONMENT									
B234	Abandon 2" to 4" Waterline in Place and Fill with Grout	LF	100	\$ 11.80	\$ 1,180.00	\$ 25.00	\$ 2,500.00	\$ 34.50	\$ 3,450.00
B235	Abandon 6" to 8" Waterline in Place and Fill with Grout	LF	100	\$ 15.93	\$ 1,593.00	\$ 35.00	\$ 3,500.00	\$ 41.40	\$ 4,140.00
B236	Abandon 12" Waterline in Place and Fill with Grout	LF	100	\$ 33.04	\$ 3,304.00	\$ 42.00	\$ 4,200.00	\$ 48.30	\$ 4,830.00
B237	Abandon 16" Waterline in Place and Fill with Grout	LF	100	\$ 33.04	\$ 3,304.00	\$ 48.00	\$ 4,800.00	\$ 51.75	\$ 5,175.00
B238	Abandon 24" Waterline in Place and Fill with Grout	LF	100	\$ 38.94	\$ 3,894.00	\$ 55.00	\$ 5,500.00	\$ 59.80	\$ 5,980.00
CASING PIPE BY CONVENTIONAL TRENCHING (INCL. CARRIER PIPE)									
B239	Furnish and Install 10" Steel Casing Pipe w/4" Waterline by Conventional Trenching, (Up to 6-ft of Cover)	LF	25	\$ 105.05	\$ 2,626.25	\$ 100.00	\$ 2,500.00	\$ 181.70	\$ 4,542.50
B240	Furnish and Install 12" Steel Casing Pipe w/6" Waterline by Conventional Trenching (Up to 6-ft of Cover)	LF	25	\$ 129.41	\$ 3,235.25	\$ 125.00	\$ 3,125.00	\$ 207.00	\$ 5,175.00
B241	Furnish and Install 16" Steel Casing Pipe w/8" Waterline by Conventional Trenching, (Up to 6-ft of Cover)	LF	25	\$ 154.71	\$ 3,867.75	\$ 160.00	\$ 4,000.00	\$ 219.65	\$ 5,491.25
B242	Furnish and Install 20" Steel Casing Pipe w/12" Waterline by Conventional Trenching (Up to 6-ft of Cover)	LF	20	\$ 164.02	\$ 3,280.40	\$ 260.00	\$ 5,200.00	\$ 202.40	\$ 4,048.00
B243	Furnish and Install 30" Steel Casing Pipe w/16" Waterline by Conventional Trenching (Up to 6-ft of Cover)	LF	20	\$ 274.94	\$ 5,498.80	\$ 400.00	\$ 8,000.00	\$ 294.40	\$ 5,888.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B244	Furnish and Install 36" steel casing Pipe w/24" Waterline by Conventional Trenching (Up to 6-ft of Cover)	LF	20	\$ 486.46	\$ 9,729.20	\$ 550.00	\$ 11,000.00	\$ 639.40	\$ 12,788.00
B245	Extra Depth for Casing and Waterline Installation by Conventional Trenching for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	25	\$ 29.89	\$ 747.25	\$ 100.00	\$ 2,500.00	\$ 26.45	\$ 661.25
CASING PIPE BY AUGER BORING (INCL. CARRIER PIPE) (0 to 100-ft)									
B246	Furnish and Install 10" Steel Casing Pipe w/4" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	25	\$ 285.17	\$ 7,129.25	\$ 300.00	\$ 7,500.00	\$ 569.25	\$ 14,231.25
B247	Furnish and Install 12" Steel Casing Pipe w/6" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	25	\$ 346.53	\$ 8,663.25	\$ 380.00	\$ 9,500.00	\$ 596.85	\$ 14,921.25
B248	Furnish and Install 16" Steel Casing Pipe w/8" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	25	\$ 381.93	\$ 9,548.25	\$ 460.00	\$ 11,500.00	\$ 702.65	\$ 17,566.25
B249	Furnish and Install 20" Steel Casing Pipe w/12" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	20	\$ 462.17	\$ 9,243.40	\$ 550.00	\$ 11,000.00	\$ 723.35	\$ 14,467.00
B250	Furnish and Install 30" Steel Casing Pipe w/16" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	20	\$ 712.33	\$ 14,246.60	\$ 950.00	\$ 19,000.00	\$ 938.40	\$ 18,768.00
B251	Furnish and Install 36" Steel Casing Pipe w/24" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	20	\$ 1,012.34	\$ 20,246.80	\$ 1,500.00	\$ 30,000.00	\$ 1,267.30	\$ 25,346.00
B252	Extra Depth for Casing and Waterline Installation by Auger Boring for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	25	\$ 74.73	\$ 1,868.25	\$ 100.00	\$ 2,500.00	\$ 74.75	\$ 1,868.75
CASING PIPE BY AUGER BORING (INCL. CARRIER PIPE) (Greater than 100-ft)									
B253	Furnish and Install 10" Steel Casing Pipe w/4" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	100	\$ 271.01	\$ 27,101.00	\$ 290.00	\$ 29,000.00	\$ 569.25	\$ 56,925.00
B254	Furnish and Install 12" Steel Casing Pipe w/6" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	100	\$ 345.64	\$ 34,564.00	\$ 370.00	\$ 37,000.00	\$ 596.85	\$ 59,685.00
B255	Furnish and Install 16" Steel Casing Pipe w/8" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	100	\$ 379.57	\$ 37,957.00	\$ 450.00	\$ 45,000.00	\$ 702.65	\$ 70,265.00
B256	Furnish and Install 20" Steel Casing Pipe w/12" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	50	\$ 463.35	\$ 23,167.50	\$ 540.00	\$ 27,000.00	\$ 723.35	\$ 36,167.50

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B257	Furnish and Install 30" Steel Casing Pipe w/16" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	50	\$ 662.77	\$ 33,138.50	\$ 900.00	\$ 45,000.00	\$ 938.40	\$ 46,920.00
B258	Furnish and Install 36" Steel Casing Pipe w/24" Waterline by Auger Boring (Up to 6-ft of Cover)	LF	50	\$ 922.37	\$ 46,118.50	\$ 1,400.00	\$ 70,000.00	\$ 1,267.30	\$ 63,365.00
B259	Extra Depth for Casing and Waterline Installation by Auger Boring for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 86.53	\$ 4,326.50	\$ 100.00	\$ 5,000.00	\$ 74.75	\$ 3,737.50
TREE AND FENCE REMOVAL									
B260	Tree Removal Up To 8" in Dia.	EA	5	\$ 442.50	\$ 2,212.50	\$ 350.00	\$ 1,750.00	\$ 714.15	\$ 3,570.75
B261	Tree Removal Greater than 8" in Dia.	EA	5	\$ 885.00	\$ 4,425.00	\$ 500.00	\$ 2,500.00	\$ 1,084.45	\$ 5,422.25
B262	Brush Removal	AC	1	\$ 3,540.00	\$ 3,540.00	\$ 2,500.00	\$ 2,500.00	\$ 2,478.25	\$ 2,478.25
B263	Remove and Relocate Existing Wooden Fence	LF	50	\$ 23.60	\$ 1,180.00	\$ 50.00	\$ 2,500.00	\$ 50.60	\$ 2,530.00
B264	Remove and Relocate Existing Chainlink Fence	LF	50	\$ 29.50	\$ 1,475.00	\$ 50.00	\$ 2,500.00	\$ 50.60	\$ 2,530.00
TRAFFIC CONTROL									
B265	Furnish and Install Signing and Traffic Control (Scenario 1)	DAY	10	\$ 295.00	\$ 2,950.00	\$ 275.00	\$ 2,750.00	\$ 625.00	\$ 6,250.00
B266	Furnish and Install Signing and Traffic Control (Scenario 2)	DAY	10	\$ 295.00	\$ 2,950.00	\$ 275.00	\$ 2,750.00	\$ 704.35	\$ 7,043.50
B267	Furnish and Install Signing and Traffic Control (Scenario 3)	DAY	10	\$ 472.00	\$ 4,720.00	\$ 420.00	\$ 4,200.00	\$ 1,115.00	\$ 11,150.00
B268	Furnish and Install Signing and Traffic Control (Scenario 4)	DAY	10	\$ 354.00	\$ 3,540.00	\$ 320.00	\$ 3,200.00	\$ 865.00	\$ 8,650.00
B269	Furnish and Install Signing and Traffic Control (Scenario 5)	DAY	10	\$ 354.00	\$ 3,540.00	\$ 320.00	\$ 3,200.00	\$ 865.00	\$ 8,650.00
B270	Furnish and Install Signing and Traffic Control (Scenario 6)	DAY	10	\$ 590.00	\$ 5,900.00	\$ 520.00	\$ 5,200.00	\$ 1,000.00	\$ 10,000.00
B271	Furnish and Install Signing and Traffic Control (Scenario 7)	DAY	10	\$ 708.00	\$ 7,080.00	\$ 650.00	\$ 6,500.00	\$ 1,052.50	\$ 10,525.00

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B272	Furnish and Install Signing and Traffic Control (Scenario 8)	DAY	10	\$ 1,003.00	\$ 10,030.00	\$ 900.00	\$ 9,000.00	\$ 1,365.00	\$ 13,650.00
B273	Furnish and Install Signing and Traffic Control (Scenario 9)	DAY	10	\$ 885.00	\$ 8,850.00	\$ 800.00	\$ 8,000.00	\$ 1,365.00	\$ 13,650.00
B274	Furnish and Install Signing and Traffic Control (Scenario 10)	DAY	10	\$ 826.00	\$ 8,260.00	\$ 750.00	\$ 7,500.00	\$ 1,365.00	\$ 13,650.00
B275	Furnish and Install Signing and Traffic Control (Scenario 11)	DAY	10	\$ 1,062.00	\$ 10,620.00	\$ 950.00	\$ 9,500.00	\$ 1,365.00	\$ 13,650.00
B276	Furnish and Install Signing and Traffic Control (Scenario 12)	DAY	10	\$ 1,298.00	\$ 12,980.00	\$ 1,200.00	\$ 12,000.00	\$ 1,615.00	\$ 16,150.00
B277	Furnish and Install Signing and Traffic Control (Scenario 13)	DAY	10	\$ 767.00	\$ 7,670.00	\$ 700.00	\$ 7,000.00	\$ 1,177.50	\$ 11,775.00
B278	Furnish and Install Signing and Traffic Control (Scenario 14)	DAY	10	\$ 1,416.00	\$ 14,160.00	\$ 1,300.00	\$ 13,000.00	\$ 1,615.00	\$ 16,150.00
B279	Furnish and Install Signing and Traffic Control (Scenario 15)	DAY	10	\$ 590.00	\$ 5,900.00	\$ 550.00	\$ 5,500.00	\$ 1,000.00	\$ 10,000.00
B280	Furnish Flagger	DAY	10	\$ 500.00	\$ 5,000.00	\$ 650.00	\$ 6,500.00	\$ 1,103.75	\$ 11,037.50
B281	Furnish and Install Flashing Arrow Board	DAY	10	\$ 100.30	\$ 1,003.00	\$ 100.00	\$ 1,000.00	\$ 106.25	\$ 1,062.50
B282	Furnish and Install Channelization Drums (10 Drums)	DAY	10	\$ 29.50	\$ 295.00	\$ 50.00	\$ 500.00	\$ 31.25	\$ 312.50
B283	Furnish and Install Type III Barricade	DAY	10	\$ 17.70	\$ 177.00	\$ 50.00	\$ 500.00	\$ 18.75	\$ 187.50
B284	Furnish and Install Skid Mount Sign on Double Wooden Posts	DAY	10	\$ 23.60	\$ 236.00	\$ 50.00	\$ 500.00	\$ 25.00	\$ 250.00
POLLUTION CONTROL MEASURES									
B285	Furnish and Install Silt Fence	LF	1000	\$ 7.00	\$ 7,000.00	\$ 5.00	\$ 5,000.00	\$ 3.45	\$ 3,450.00
B286	Furnish and Install Fiber Rolls	LF	10	\$ 4.26	\$ 42.60	\$ 20.00	\$ 200.00	\$ 11.50	\$ 115.00
B287	Furnish and Install Rock Filled Bags	LF	10	\$ 35.53	\$ 355.30	\$ 40.00	\$ 400.00	\$ 192.05	\$ 1,920.50
B288	Furnish and Install Rock Filter Dam	LS	5	\$ 2,006.00	\$ 10,030.00	\$ 2,000.00	\$ 10,000.00	\$ 2,950.90	\$ 14,754.50
B289	Furnish and Install Construction Entrance/Exit	LS	5	\$ 2,596.00	\$ 12,980.00	\$ 1,800.00	\$ 9,000.00	\$ 3,139.50	\$ 15,697.50
WELL POINTING									

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B290	Furnish and Install Well Pointing for Waterline Installation (Up to 6-ft of Cover)	LF	500	\$ 42.78	\$ 21,390.00	\$ 35.00	\$ 17,500.00	\$ 125.00	\$ 62,500.00
B291	Extra Depth for Well Pointing for Waterline Installation for Each Vertical Foot Over 6-ft of Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	50	\$ 14.75	\$ 737.50	\$ 10.00	\$ 500.00	\$ 400.00	\$ 20,000.00
PRECONSTRUCTION EXPLORATORY EXCAVATION									
B292	Preconstruction Exploratory Excavation (Up to 6-ft of Cover)	LF	500	\$ 106.20	\$ 53,100.00	\$ 75.00	\$ 37,500.00	\$ 57.50	\$ 28,750.00
B293	Extra Depth for Preconstruction Exploratory Excavation for Each Vertical Foot Over 6-ft Cover, Added Linearly Along the Trench (All Pipe Sizes)	LF	100	\$ 42.48	\$ 4,248.00	\$ 20.00	\$ 2,000.00	\$ 65.55	\$ 6,555.00
JOINT RESTRAINT									
B294	Furnish and Install Bell Harness Assembly for 4" Waterline	EA	5	\$ 430.60	\$ 2,153.00	\$ 100.00	\$ 500.00	\$ 62.10	\$ 310.50
B295	Furnish and Install Bell Harness Assembly for 6" Waterline	EA	5	\$ 440.98	\$ 2,204.90	\$ 120.00	\$ 600.00	\$ 74.75	\$ 373.75
B296	Furnish and Install Bell Harness Assembly for 8" Waterline	EA	5	\$ 673.99	\$ 3,369.95	\$ 150.00	\$ 750.00	\$ 115.00	\$ 575.00
B297	Furnish and Install Bell Harness Assembly for 12" Waterline	EA	2	\$ 1,339.77	\$ 2,679.54	\$ 225.00	\$ 450.00	\$ 213.90	\$ 427.80
B298	Furnish and Install Bell Harness Assembly for 16" Waterline	EA	2	\$ 1,550.54	\$ 3,101.08	\$ 500.00	\$ 1,000.00	\$ 453.10	\$ 906.20
B299	Furnish and Install Bell Harness Assembly for 24" Waterline	EA	2	\$ 2,134.74	\$ 4,269.48	\$ 1,200.00	\$ 2,400.00	\$ 1,100.55	\$ 2,201.10
TRANSITION COUPLINGS									
B300	Furnish and Install 4" Dia. Transition Coupling	EA	5	\$ 318.01	\$ 1,590.05	\$ 250.00	\$ 1,250.00	\$ 257.60	\$ 1,288.00
B301	Furnish and Install 6" Dia. Transition Coupling	EA	5	\$ 372.29	\$ 1,861.45	\$ 330.00	\$ 1,650.00	\$ 327.75	\$ 1,638.75
B302	Furnish and Install 8" Dia. Transition Coupling	EA	5	\$ 489.70	\$ 2,448.50	\$ 410.00	\$ 2,050.00	\$ 438.15	\$ 2,190.75

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Item	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT	UNIT PRICE	EXTENDED AMOUNT
B303	Furnish and Install 12" Dia. Transition Coupling	EA	2	\$ 647.23	\$ 1,294.46	\$ 600.00	\$ 1,200.00	\$ 609.50	\$ 1,219.00
B304	Furnish and Install 16" Dia. Transition Coupling	EA	2	\$ 3,098.68	\$ 6,197.36	\$ 1,300.00	\$ 2,600.00	\$ 1,296.05	\$ 2,592.10
B305	Furnish and Install 24" Dia. Transition Coupling	EA	2	\$ 3,409.02	\$ 6,818.04	\$ 1,600.00	\$ 3,200.00	\$ 1,587.00	\$ 3,174.00
WATERLINE CAPS									
B306	Furnish and Install 4" Dia. Waterline Cap	EA	5	\$ 112.09	\$ 560.45	\$ 100.00	\$ 500.00	\$ 118.45	\$ 592.25
B307	Furnish and Install 6" Dia. Waterline Cap	EA	5	\$ 134.29	\$ 671.45	\$ 120.00	\$ 600.00	\$ 143.75	\$ 718.75
B308	Furnish and Install 8" Dia. Waterline Cap	EA	5	\$ 287.07	\$ 1,435.35	\$ 150.00	\$ 750.00	\$ 185.15	\$ 925.75
B309	Furnish and Install 12" Dia. Waterline Cap	EA	2	\$ 439.23	\$ 878.46	\$ 285.00	\$ 570.00	\$ 319.70	\$ 639.40
B310	Furnish and Install 16" Dia. Waterline Cap	EA	2	\$ 2,185.04	\$ 4,370.08	\$ 560.00	\$ 1,120.00	\$ 601.45	\$ 1,202.90
B311	Furnish and Install 24" Dia. Waterline Cap	EA	2	\$ 2,566.44	\$ 5,132.88	\$ 1,065.00	\$ 2,130.00	\$ 1,137.35	\$ 2,274.70
SUBTOTAL PART B - WATERLINE IMPROVEMENTS					\$ 4,147,793.00		\$ 4,263,810.00		\$ 5,521,795.00
Part C - ALLOWANCE									
C1	Preparation of Traffic Control Plans	AL	1	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00	\$ 45,000.00
C2	Disposal of Contaminated Ground Water	AL	1	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00
SUBTOTAL PART C - ALLOWANCE					\$ 60,000.00		\$ 60,000.00		\$ 60,000.00
TOTAL BASE BID A + B + C =					\$ 4,492,350.00		\$ 4,598,910.00		\$ 6,015,150.00

*Note: Area's in grey cells and bold borders indicates a mathematical error in the extension of a unit bid price.