



FORD ENGINEERING, INC

July 12, 2021
Project No. 1124.9406

Jennifer R. Shortess, PE
City of Schertz
10 Commercial Place, Building 2
Schertz, TX 78154

Re: AVIATION HEIGHTS WATER LINE IMPROVEMENTS - PHASES 5, 6, & 7, PROJECT
NUMBER #2021-011
Bid Tabulation

Five (5) bids were received on the above referenced project at City of Schertz City Hall on July 7, 2021. The bids are tabulated and attached, along with supporting information required in the Instruction to Bidders.

Review and tabulation of the Base Bid indicates that **M&C Fonseca Construction Co., Inc.** is the Base Bid low bidder with a bid of **\$1,450,509.00**. The bid provided by San Antonio Constructors had one minor irregularity in the total summation of bid.

Review and tabulation of the Base Bid, Additive Alternate 1 and Additive Alternate 2 indicates that **M&C Fonseca Construction Co., Inc.** was also the combined low bidder for the Base Bid and additive alternates, with a combined bid total of **\$1,623,167.50**. No irregularities were identified in their bid tabulation.

The Engineer's Estimate for the Base Bid construction was \$1,847,882.76, and a total including additive alternates of \$2,061,757.76. The average Base Bid was \$2,502,232.70.

Ford Engineering, Inc. called three of the references provided by the low bidder for projects of similar scope or cost. The references were positive with regards to quality of work and working relationship.

Ford Engineering, Inc. recommends **M&C Fonseca Construction Co., Inc.** for this project with a combined bid total of **\$1,623,167.50** for the Base Bid, Additive Alternates. The contractor has responded all addenda, included required forms, and was found to not be disbarred.

Should there be questions, or if further information is needed, please do not hesitate to call me at 210-590-4777.

Sincerely,

Mark B. Hill, PE
FORD ENGINEERING, INC.

Incl. Bid Tabulation, Verification of Low Bidder Unit prices, Summary of references called.

Aviation Heights Phases 5, 6, & 7 Bid Tabulation Bid date: July 7, 2021 - 3:00 PM Project No. 1124.9406				BIDDERS									
				Atlas Construction Co		M&C Fonseca		QRO Mex Constructors		RL Jones		San Antonio Constructors	
ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	UNIT PRICE	TOTAL
BASE BID													
1410	TPDES -Storm Water Pollution Prevention Plan	ls	1	\$ 23,914.82	\$ 23,914.82	\$ 12,500.00	\$ 12,500.00	\$ 60,000.00	\$ 60,000.00	\$ 5,000.00	\$ 5,000.00	\$ 10,000.00	\$ 10,000.00
1502	Mobilization	ls	1	\$ 83,345.17	\$ 83,345.17	\$ 50,000.00	\$ 50,000.00	\$ 149,000.00	\$ 149,000.00	\$ 210,000.00	\$ 210,000.00	\$ 193,294.80	\$ 193,294.80
1555	Traffic Control and Regulation	ls	1	\$ 20,170.87	\$ 20,170.87	\$ 22,500.00	\$ 22,500.00	\$ 70,000.00	\$ 70,000.00	\$ 80,000.00	\$ 80,000.00	\$ 10,000.00	\$ 10,000.00
1740	Site Restoration (Utility Construction)	lf	9928	\$ 46.74	\$ 464,034.72	\$ 18.00	\$ 178,704.00	\$ 5.00	\$ 49,640.00	\$ 20.00	\$ 198,560.00	\$ 40.00	\$ 397,120.00
2085	Water Meter Box	ea	218	\$ 342.07	\$ 74,571.26	\$ 100.00	\$ 21,800.00	\$ 300.00	\$ 65,400.00	\$ 200.00	\$ 43,600.00	\$ 400.00	\$ 87,200.00
2085	Water Meter Relocate	ea	217	\$ 368.60	\$ 79,986.20	\$ 140.00	\$ 30,380.00	\$ 450.00	\$ 97,650.00	\$ 400.00	\$ 86,800.00	\$ 350.00	\$ 75,950.00
2221	Remove Concrete Curb	lf	132	\$ 23.11	\$ 3,050.52	\$ 10.00	\$ 1,320.00	\$ 10.00	\$ 1,320.00	\$ 1.00	\$ 132.00	\$ 20.00	\$ 2,640.00
2221	Remove Concrete Sidewalk and Driveway	sy	41	\$ 22.23	\$ 911.43	\$ 34.00	\$ 1,394.00	\$ 120.00	\$ 4,920.00	\$ 1.00	\$ 41.00	\$ 29.00	\$ 1,189.00
2260	Trench Safety System	lf	9928	\$ 2.22	\$ 22,040.16	\$ 0.50	\$ 4,964.00	\$ 2.00	\$ 19,856.00	\$ 1.00	\$ 9,928.00	\$ 2.00	\$ 19,856.00
2317	Flowable Fill	cy	351	\$ 183.52	\$ 64,415.52	\$ 125.00	\$ 43,875.00	\$ 180.00	\$ 63,180.00	\$ 20.00	\$ 7,020.00	\$ 120.00	\$ 42,120.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (6-in)	lf	79	\$ 60.56	\$ 4,784.24	\$ 38.00	\$ 3,002.00	\$ 120.00	\$ 9,480.00	\$ 130.00	\$ 10,270.00	\$ 50.00	\$ 3,950.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	9805	\$ 64.06	\$ 628,108.30	\$ 50.00	\$ 490,250.00	\$ 130.00	\$ 1,274,650.00	\$ 135.00	\$ 1,323,675.00	\$ 44.00	\$ 431,420.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Augered w/Casing) (8-in)	lf	44	\$ 355.85	\$ 15,657.40	\$ 350.00	\$ 15,400.00	\$ 180.00	\$ 7,920.00	\$ 150.00	\$ 6,600.00	\$ 140.00	\$ 6,160.00
2511	Water Tie-In (Complete) (8")	ea	9	\$ 1,571.95	\$ 14,147.55	\$ 2,200.00	\$ 19,800.00	\$ 3,500.00	\$ 31,500.00	\$ 1,000.00	\$ 9,000.00	\$ 2,000.00	\$ 18,000.00
2511	Water Tie-In (Complete) (8")	ea	25	\$ 1,761.82	\$ 44,045.50	\$ 2,500.00	\$ 62,500.00	\$ 4,500.00	\$ 112,500.00	\$ 1,000.00	\$ 25,000.00	\$ 3,000.00	\$ 75,000.00
2512	Yard Piping	ea	217	\$ 1,629.83	\$ 353,673.11	\$ 250.00	\$ 54,250.00	\$ 1,100.00	\$ 238,700.00	\$ 3,000.00	\$ 651,000.00	\$ 2,000.00	\$ 434,000.00
2512	Water Tap and Service (1 in) (dual) (short side)	ea	29	\$ 1,036.13	\$ 30,047.77	\$ 1,100.00	\$ 31,900.00	\$ 1,250.00	\$ 36,250.00	\$ 1,800.00	\$ 52,200.00	\$ 2,900.00	\$ 84,100.00
2512	Water Tap and Service (1 in) (dual) (long side) (Open Cut)	ea	32	\$ 2,070.61	\$ 66,259.52	\$ 1,500.00	\$ 48,000.00	\$ 1,750.00	\$ 56,000.00	\$ 3,200.00	\$ 102,400.00	\$ 3,900.00	\$ 124,800.00
2512	Water Tap and Service (1 in) (single) (short side)	ea	50	\$ 938.85	\$ 46,942.50	\$ 900.00	\$ 45,000.00	\$ 1,250.00	\$ 62,500.00	\$ 1,300.00	\$ 65,000.00	\$ 2,500.00	\$ 125,000.00
2512	Water Tap and Service (1 in) (single) (long side) (Open Cut)	ea	46	\$ 1,912.19	\$ 87,960.74	\$ 1,300.00	\$ 59,800.00	\$ 1,250.00	\$ 57,500.00	\$ 3,000.00	\$ 138,000.00	\$ 3,000.00	\$ 138,000.00
2516	Water Cut, Plug, Abandon (3-in)	ea	13	\$ 619.04	\$ 8,047.52	\$ 300.00	\$ 3,900.00	\$ 750.00	\$ 9,750.00	\$ 500.00	\$ 6,500.00	\$ 1,000.00	\$ 13,000.00
2516	Water Cut, Plug, Abandon (4-in)	ea	19	\$ 622.38	\$ 11,825.22	\$ 450.00	\$ 8,550.00	\$ 650.00	\$ 12,350.00	\$ 500.00	\$ 9,500.00	\$ 1,400.00	\$ 26,600.00
2516	Water Cut, Plug, Abandon (6-in)	ea	2	\$ 657.97	\$ 1,315.94	\$ 550.00	\$ 1,100.00	\$ 1,300.00	\$ 2,600.00	\$ 800.00	\$ 1,600.00	\$ 1,600.00	\$ 3,200.00
2516	Water Cut, Plug, Abandon (8-in)	ea	8	\$ 734.73	\$ 5,877.84	\$ 650.00	\$ 5,200.00	\$ 2,000.00	\$ 16,000.00	\$ 800.00	\$ 6,400.00	\$ 1,800.00	\$ 14,400.00
2520	Fire Hydrant Assembly (Complete)	ea	18	\$ 4,468.63	\$ 80,435.34	\$ 5,250.00	\$ 94,500.00	\$ 6,000.00	\$ 108,000.00	\$ 6,500.00	\$ 117,000.00	\$ 4,200.00	\$ 75,600.00
2520	Salvage Fire Hydrant	ea	7	\$ 1,333.75	\$ 9,336.25	\$ 300.00	\$ 2,100.00	\$ 4,500.00	\$ 31,500.00	\$ 1,000.00	\$ 7,000.00	\$ 1,000.00	\$ 7,000.00
2521	Gate Valves (8-in)	ea	52	\$ 1,663.95	\$ 86,525.40	\$ 2,100.00	\$ 109,200.00	\$ 1,850.00	\$ 96,200.00	\$ 2,000.00	\$ 104,000.00	\$ 3,000.00	\$ 156,000.00
2521	Blow Off Valve (2") (Temporary)	ea	25	\$ 906.04	\$ 22,651.00	\$ 850.00	\$ 21,250.00	\$ 1,500.00	\$ 37,500.00	\$ 500.00	\$ 12,500.00	\$ 1,000.00	\$ 25,000.00
2631	Storm Sewer (RCP) (18")	lf	24	\$ 139.94	\$ 3,334.56	\$ 70.00	\$ 1,680.00	\$ 200.00	\$ 4,800.00	\$ 10.00	\$ 240.00	\$ 65.00	\$ 1,560.00
2631	Storm Sewer (RCP) (24")	lf	8	\$ 163.41	\$ 1,307.28	\$ 80.00	\$ 640.00	\$ 220.00	\$ 1,760.00	\$ 10.00	\$ 80.00	\$ 90.00	\$ 720.00
2631	Storm Sewer (RCB) (60"X60")	lf	8	\$ 438.11	\$ 3,504.88	\$ 500.00	\$ 4,000.00	\$ 600.00	\$ 4,800.00	\$ 10.00	\$ 80.00	\$ 550.00	\$ 4,400.00
MISC	Pipe Bollard	ea	3	\$ 731.39	\$ 2,194.17	\$ 350.00	\$ 1,050.00	\$ 950.00	\$ 2,850.00	\$ 250.00	\$ 750.00	\$ 1,000.00	\$ 3,000.00
BASE BID TOTAL				\$ 2,364,422.70		\$ 1,450,509.00		\$ 2,796,076.00		\$ 3,289,876.00		\$ 2,610,279.80	
*summation error													
ALT 1													
1740	Site Restoration (Utility Construction)	lf	878	\$ 44.49	\$ 39,062.22	\$ 18.00	\$ 15,804.00	\$ 3.00	\$ 2,634.00	\$ 20.00	\$ 17,560.00	\$ 40.00	\$ 35,120.00
2221	Remove Concrete Curb	lf	10	\$ 27.79	\$ 277.90	\$ 10.00	\$ 100.00	\$ 10.00	\$ 100.00	\$ 1.00	\$ 10.00	\$ 20.00	\$ 200.00
2260	Trench Safety System	lf	878	\$ 2.22	\$ 1,949.16	\$ 0.50	\$ 439.00	\$ 2.00	\$ 1,756.00	\$ 1.00	\$ 878.00	\$ 2.00	\$ 1,756.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	878	\$ 65.17	\$ 57,219.26	\$ 50.00	\$ 43,900.00	\$ 130.00	\$ 114,140.00	\$ 122.00	\$ 107,116.00	\$ 42.00	\$ 36,876.00
2511	Water Tie-In (Complete) (8")	ea	6	\$ 1,759.46	\$ 10,556.76	\$ 2,500.00	\$ 15,000.00	\$ 4,500.00	\$ 27,000.00	\$ 1,000.00	\$ 6,000.00	\$ 3,000.00	\$ 18,000.00
2521	Gate Valves (8-in)	ea	3	\$ 1,980.33	\$ 5,940.99	\$ 2,100.00	\$ 6,300.00	\$ 1,850.00	\$ 5,550.00	\$ 2,000.00	\$ 6,000.00	\$ 2,800.00	\$ 8,400.00
2521	Blow Off Valve (2") (Temporary)	ea	4	\$ 1,182.74	\$ 4,730.96	\$ 850.00	\$ 3,400.00	\$ 2,000.00	\$ 8,000.00	\$ 500.00	\$ 2,000.00	\$ 1,000.00	\$ 4,000.00
ALTERNATE 1 TOTAL				\$ 119,737.25		\$ 84,943.00		\$ 159,180.00		\$ 139,564.00		\$ 104,352.00	
ALT 2													
1740	Site Restoration (Utility Construction)	lf	923	\$ 47.83	\$ 44,147.09	\$ 18.00	\$ 16,614.00	\$ 3.00	\$ 2,769.00	\$ 20.00	\$ 18,460.00	\$ 40.00	\$ 36,920.00
2221	Remove Concrete Curb	lf	10	\$ 77.85	\$ 778.50	\$ 10.00	\$ 100.00	\$ 15.00	\$ 150.00	\$ 1.00	\$ 10.00	\$ 20.00	\$ 200.00
2260	Trench Safety System	lf	923	\$ 2.22	\$ 2,049.06	\$ 0.50	\$ 461.50	\$ 2.00	\$ 1,846.00	\$ 1.00	\$ 923.00	\$ 2.00	\$ 1,846.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (6-in)	lf	5	\$ 103.42	\$ 517.10	\$ 38.00	\$ 190.00	\$ 130.00	\$ 650.00	\$ 122.00	\$ 610.00	\$ 50.00	\$ 250.00
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	918	\$ 67.50	\$ 61,965.00	\$ 50.00	\$ 45,900.00	\$ 130.00	\$ 119,340.00	\$ 122.00	\$ 111,996.00	\$ 42.00	\$ 38,556.00
2511	Water Tie-In (Complete) (6")	ea	2	\$ 1,548.22	\$ 3,096.44	\$ 2,200.00	\$ 4,400.00	\$ 3,500.00	\$ 7,000.00	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 4,000.00
2511	Water Tie-In (Complete) (8")	ea	3	\$ 1,648.33	\$ 4,944.99	\$ 2,500.00	\$ 7,500.00	\$ 4,500.00	\$ 13,500.00	\$ 1,000.00	\$ 3,000.00	\$ 3,000.00	\$ 9,000.00
2521	Gate Valves (8-in)	ea	3	\$ 1,980.33	\$ 5,940.99	\$ 2,100.00	\$ 6,300.00	\$ 1,850.00	\$ 5,550.00	\$ 2,000.00	\$ 6,000.00	\$ 2,800.00	\$ 8,400.00
2521	Blow Off Valve (2") (Temporary)	ea	5	\$ 1,182.74	\$ 5,913.70	\$ 850.00	\$ 4,250.00	\$ 2,000.00	\$ 10,000.00	\$ 500.00	\$ 2,500.00	\$ 1,000.00	\$ 5,000.00
2521	Blow Off Valve (2") (Permanent)	ea	1	\$ 1,671.09	\$ 1,671.09	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 2,500.00	\$ 1,000.00	\$ 1,000.00
ALTERNATE 2 TOTAL				\$ 131,023.96		\$ 87,715.50		\$ 163,305.00		\$ 147,999.00		\$ 105,172.00	
TOTAL BID				\$ 2,615,183.91		\$ 1,623,167.50		\$ 3,118,561.00		\$ 3,577,439.00		\$ 2,819,803.80	

Verification of Low Bidder Unit Prices

Low Bidder Verification				M&C Fonseca		Average Unit Price		Lowest Unit Price Bid		Engineer		Comments
Item No.	Item Description	UNIT	Quantity	Unit Price	Cost	Unit Price	% Diff	Cost	Diff	Unit Price	% Diff	
1410	TPDES -Storm Water Pollution Prevention Plan	ls	1	\$ 12,500.00	\$ 12,500.00	\$ 22,282.96	-44%	\$ 5,000.00	150%	\$ 17,109.47	-27%	Less than average and large percentage of total project cost
1502	Mobilization	ls	1	\$ 50,000.00	\$ 50,000.00	\$ 137,127.99	-64%	\$ 50,000.00	0%	\$ 102,656.82	-51%	Less than 50% of average unit price
1555	Traffic Control and Regulation	ls	1	\$ 22,500.00	\$ 22,500.00	\$ 40,534.17	-44%	\$ 10,000.00	125%	\$ 17,109.47	32%	Less than average and large percentage of total project cost
1740	Site Restoration (Utility Construction)	lf	9928	\$ 18.00	\$ 178,704.00	\$ 25.95	-31%	\$ 5.00	260%	\$ 36.00	-50%	Less than average and large percentage of total project cost
2085	Water Meter Box	ea	218	\$ 100.00	\$ 21,800.00	\$ 268.41	-63%	\$ 100.00	0%	\$ 147.00	-32%	Less than 50% of average unit price
2085	Water Meter Relocate	ea	217	\$ 140.00	\$ 30,380.00	\$ 341.72	-59%	\$ 140.00	0%	\$ 153.00	-8%	Less than 50% of average unit price
2221	Remove Concrete Curb	lf	132	\$ 10.00	\$ 1,320.00	\$ 12.82	-22%	\$ 1.00	900%	\$ 7.00	43%	Within Reason
2221	Remove Concrete Sidewalk and Driveway	sy	41	\$ 34.00	\$ 1,394.00	\$ 41.25	-18%	\$ 1.00	3300%	\$ 27.00	26%	Within Reason
2260	Trench Safety System	lf	9928	\$ 0.50	\$ 4,964.00	\$ 1.54	-68%	\$ 0.50	0%	\$ 8.00	-94%	Less than 50% of average unit price
2317	Flowable Fill	cy	351	\$ 125.00	\$ 43,875.00	\$ 125.70	-1%	\$ 20.00	525%	\$ 150.00	-17%	Within Reason
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (6-in)	lf	79	\$ 38.00	\$ 3,002.00	\$ 79.71	-52%	\$ 38.00	0%	\$ 70.00	-46%	Less than 50% of average unit price
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	9805	\$ 50.00	\$ 490,250.00	\$ 84.61	-41%	\$ 44.00	14%	\$ 45.00	11%	Less than average and large percentage of total project cost
2511	Water Pipe (PVC C900 DR14) (Complete) (Augered w/Casing) (8-in)	lf	44	\$ 350.00	\$ 15,400.00	\$ 235.17	49%	\$ 140.00	150%	\$ 350.00	0%	Within Reason
2511	Water Tie-In (Complete) (6")	ea	9	\$ 2,200.00	\$ 19,800.00	\$ 2,054.39	7%	\$ 1,000.00	120%	\$ 1,950.00	13%	Within Reason
2511	Water Tie-In (Complete) (8")	ea	25	\$ 2,500.00	\$ 62,500.00	\$ 2,552.36	-2%	\$ 1,000.00	150%	\$ 2,143.00	17%	Within Reason
2512	Yard Piping	ea	217	\$ 250.00	\$ 54,250.00	\$ 1,595.97	-84%	\$ 250.00	0%	\$ 375.00	-33%	Less than 50% of average unit price
2512	Water Tap and Service (1 in) (dual) (short side)	ea	29	\$ 1,100.00	\$ 31,900.00	\$ 1,617.23	-32%	\$ 1,036.13	6%	\$ 1,070.00	3%	Within Reason
2512	Water Tap and Service (1 in) (dual) (long side) (Open Cut)	ea	32	\$ 1,500.00	\$ 48,000.00	\$ 2,484.12	-40%	\$ 1,500.00	0%	\$ 1,560.00	-4%	Less than average and large percentage of total project cost
2512	Water Tap and Service (1 in) (single) (short side)	ea	50	\$ 900.00	\$ 45,000.00	\$ 1,377.77	-35%	\$ 900.00	0%	\$ 1,070.00	-16%	Less than average and large percentage of total project cost
2512	Water Tap and Service (1 in) (single) (long side) (Open Cut)	ea	46	\$ 1,300.00	\$ 59,800.00	\$ 2,092.44	-38%	\$ 1,250.00	4%	\$ 1,560.00	-17%	Less than average and large percentage of total project cost
2516	Water Cut, Plug, Abandon (3-in)	ea	13	\$ 300.00	\$ 3,900.00	\$ 633.81	-53%	\$ 300.00	0%	\$ 1,650.00	-82%	Less than 50% of average unit price
2516	Water Cut, Plug, Abandon (4-in)	ea	19	\$ 450.00	\$ 8,550.00	\$ 724.48	-38%	\$ 450.00	0%	\$ 1,650.00	-73%	Within Reason
2516	Water Cut, Plug, Abandon (6-in)	ea	2	\$ 550.00	\$ 1,100.00	\$ 981.59	-44%	\$ 550.00	0%	\$ 1,650.00	-67%	Within Reason
2516	Water Cut, Plug, Abandon (8-in)	ea	8	\$ 650.00	\$ 5,200.00	\$ 1,196.95	-46%	\$ 650.00	0%	\$ 1,650.00	-61%	Within Reason
2520	Fire Hydrant Assembly (Complete)	ea	18	\$ 5,250.00	\$ 94,500.00	\$ 5,283.73	-1%	\$ 4,200.00	25%	\$ 4,800.00	9%	Within Reason
2520	Salvage Fire Hydrant	ea	7	\$ 300.00	\$ 2,100.00	\$ 1,626.75	-82%	\$ 300.00	0%	\$ 2,000.00	-85%	Less than 50% of average unit price
2521	Gate Valves (8-in)	ea	52	\$ 2,100.00	\$ 109,200.00	\$ 2,122.79	-1%	\$ 1,663.95	26%	\$ 2,019.00	4%	Within Reason
2521	Blow Off Valve (2") (Temporary)	ea	25	\$ 850.00	\$ 21,250.00	\$ 951.21	-11%	\$ 500.00	70%	\$ 1,808.00	-53%	Within Reason
2631	Storm Sewer (RCP) (18")	lf	24	\$ 70.00	\$ 1,680.00	\$ 96.79	-28%	\$ 10.00	600%	\$ 250.00	-72%	Within Reason
2631	Storm Sewer (RCP) (24")	lf	8	\$ 80.00	\$ 640.00	\$ 112.68	-29%	\$ 10.00	700%	\$ 323.00	-75%	Within Reason
2631	Storm Sewer (RCB) (60"X60")	lf	8	\$ 500.00	\$ 4,000.00	\$ 419.62	19%	\$ 10.00	4900%	\$ 550.00	-9%	Within Reason
MISC	Pipe Bollard	ea	3	\$ 350.00	\$ 1,050.00	\$ 656.28	-47%	\$ 250.00	40%	\$ 150.00	133%	Within Reason
BASE BID TOTAL				\$	1,450,509.00							
1740	Site Restoration (Utility Construction)	lf	878	\$ 18.00	\$ 15,804.00	\$ 25.10	-28%	\$ 3.00	500%	\$ 36.00	-50%	Within Reason
2221	Remove Concrete Curb	lf	10	\$ 10.00	\$ 100.00	\$ 13.76	-27%	\$ 1.00	900%	\$ 7.00	43%	Within Reason
2260	Trench Safety System	lf	878	\$ 0.50	\$ 439.00	\$ 1.54	-68%	\$ 0.50	0%	\$ 8.00	-94%	Less than 50% of average unit price
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	878	\$ 50.00	\$ 43,900.00	\$ 81.83	-39%	\$ 42.00	19%	\$ 45.00	11%	Less than average and large percentage of total project cost
2511	Water Tie-In (Complete) (8")	ea	6	\$ 2,500.00	\$ 15,000.00	\$ 2,551.89	-2%	\$ 1,000.00	150%	\$ 2,143.00	17%	Within Reason
2521	Gate Valves (8-in)	ea	3	\$ 2,100.00	\$ 6,300.00	\$ 2,146.07	-2%	\$ 1,850.00	14%	\$ 2,019.00	4%	Within Reason
2521	Blow Off Valve (2") (Temporary)	ea	4	\$ 850.00	\$ 3,400.00	\$ 1,106.55	-23%	\$ 500.00	70%	\$ 1,808.00	-53%	Within Reason
ALTERNATE 1 TOTAL				\$	84,943.00							
1740	Site Restoration (Utility Construction)	lf	923	\$ 18.00	\$ 16,614.00	\$ 25.77	-30%	\$ 3.00	500%	\$ 33,228.00	-50%	Within Reason
2221	Remove Concrete Curb	lf	10	\$ 10.00	\$ 100.00	\$ 24.77	-60%	\$ 1.00	900%	\$ 70.00	43%	Less than 50% of average unit price
2260	Trench Safety System	lf	923	\$ 0.50	\$ 461.50	\$ 1.54	-68%	\$ 0.50	0%	\$ 7,384.00	-94%	Less than 50% of average unit price
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (6-in)	lf	5	\$ 38.00	\$ 190.00	\$ 88.68	-57%	\$ 38.00	0%	\$ 350.00	-46%	Less than 50% of average unit price
2511	Water Pipe (PVC C900 DR14) (Complete) (Open Cut) (8-in)	lf	918	\$ 50.00	\$ 45,900.00	\$ 82.30	-39%	\$ 42.00	19%	\$ 41,310.00	11%	Less than average and large percentage of total project cost
2511	Water Tie-In (Complete) (6")	ea	2	\$ 2,200.00	\$ 4,400.00	\$ 2,049.64	7%	\$ 1,000.00	120%	\$ 3,900.00	13%	Within Reason
2511	Water Tie-In (Complete) (8")	ea	3	\$ 2,500.00	\$ 7,500.00	\$ 2,529.67	-1%	\$ 1,000.00	150%	\$ 6,429.00	17%	Within Reason
2521	Gate Valves (8-in)	ea	3	\$ 2,100.00	\$ 6,300.00	\$ 2,146.07	-2%	\$ 1,850.00	14%	\$ 6,057.00	4%	Within Reason
2521	Blow Off Valve (2") (Temporary)	ea	5	\$ 850.00	\$ 4,250.00	\$ 1,106.55	-23%	\$ 500.00	70%	\$ 9,040.00	-53%	Within Reason
2521	Blow Off Valve (2") (Permanent)	ea	1	\$ 2,000.00	\$ 2,000.00	\$ 1,934.22	3%	\$ 1,000.00	100%	\$ 1,808.00	11%	Within Reason
ALTERNATE 2 TOTAL				\$	87,715.50							

Red items are where the % change to average is greater than 50% of the item cost was significantly low and represent a large portion of total project cost