MOCK • ROOS

CONSULTING ENGINEERS

February 21, 2020

Mr. Richard Hasko, P.E.
Lake Worth Beach Water Utilities
301 College Street
Lake Worth, FL 33460

Ref. No.: B6057.40
Subject: Lake Worth Beach – Neighborhood Roadway Project District 1, Year 4, Project 2 - IFB#20-102 Recommendation of Award

Dear Richard:

On January 29, 2020 ten bids were received for the construction work on this project. The bids ranged from $2,881,587.50 to $3,816,840.00. The Engineer's Opinion of Probable Construction Cost was $3,600,000.00. Enclosed is a full bid tabulation summary for your use in reviewing and comparing the bids. The low bid was received from B&B Underground Construction, Inc. in the amount of $2,881,587.50 (as corrected).

A review of B&B Underground Construction, Inc.'s bid found it to be response. In addition, we are very familiar with the work product of this bidder, as they have successfully constructed several of our previously designed watermain projects for the City of Lake Worth Beach. Therefore, we did not perform a check of the projects referenced in their bid submittal. We discussed the bid with the contractor. He indicated that his bid was complete and that he could construct the project within the bid amount. Based on the above, we recommend that the City award this project to B&B Underground Construction, Inc.

Our Recommendation of Award is based on a review of the project and the contractor from an engineering perspective and based on the contractor's past project performance. We recommend that you seek advice of legal counsel relative to other issues regarding the legalities of award of this contract. If you have any questions regarding our recommendation, please contact me at 683-3113, extension 258.

Sincerely,
MOCK, ROOS & ASSOCIATES, INC.

John R. Leemon, P.E.
Senior Project Manager

JRL:tsm
Enclosure
Copies: Julie Parham, P.E. (w/encl via email)
Brian Shields, P.E. (w/encl via email)

F:\lw__\lw__nei3\ENG-DES\B6057.30\Specs\specs\Recommendation of Award to City\Bid Recommendation-cbm.docx

Bid Date: January 29, 2020

Bid Tabulation: Neighborhood Road Program District 1, Year 4, Project 2
City of Lake Worth Beach
IFB 20-102

Item	Description	Est. Quan.	Unit	B& B Underground Construction Unit Cost	B& B Underground Construction Total Amount	Rosso Site Development, Inc Unit Cost	Rosso Site Development, Inc Total Amount	Foster Marine Contractors, Inc. Unit Cost	Foster Marine Contractors, Inc. Total Amount	Johnson & Davis, Inc. Unit Cost	Johnson & Davis, Inc. Total Amount	Giannetti Contracting Corporation Unit Cost	Giannetti Contracting Corporation Total Amount	Amici Engineering Contractors, LLC Unit Cost	Amici Engineering Contractors, LLC Total Amount
A. General Items															
A-1	Mobilization and General Conditions	1	LS	75,000.00	75,000.00	273,342.26	273,342.26	59,500.00	59,500.00	151,000.00	151,000.00	421,090.00	421,090.00	218,000.00	218,000.00
A-2	Bonds and Insurance Requirements	1	LS	50,000.00	50,000.00	44,951.36	44,951.36	73,000.00	73,000.00	32,000.00	32,000.00	22,000.00	22,000.00	132,720.00	132,720.00
A-3	Maintenance of Traffic	1	LS	15,000.00	15,000.00	20,564.85	20,564.85	19,000.00	19,000.00	21,000.00	21,000.00	75,000.00	75,000.00	35,000.00	35,000.00
A-4	NPDES Compliance	1	LS	4,000.00	4,000.00	8,460.00	8,460.00	7,600.00	7,600.00	6,000.00	6,000.00	22,500.00	22,500.00	2,800.00	2,800.00
A-5	Pre-Construction Video	1	LS	5,000.00	5,000.00	164.58	164.58	5,000.00	5,000.00	5,000.00	5,000.00	5,500.00	5,500.00	5,600.00	5,600.00
A-6	Layout, Survey, and Record Drawings	1	LS	16,000.00	16,000.00	46,503.66	46,503.66	53,000.00	53,000.00	35,000.00	35,000.00	85,000.00	85,000.00	30,000.00	30,000.00
A-7	Clearing and Grubbing (except pavement and concrete)	1	LS	7,000.00	7,000.00	10,000.00	10,000.00	15,000.00	15,000.00	10,000.00	10,000.00	30,000.00	30,000.00	19,000.00	19,000.00
	General Items Subtotal				**$ 172,000.00**		**$ 403,986.71**		**$ 232,100.00**		**$ 260,000.00**		**$ 661,090.00**		**$ 443,120.00**
B. Roadway and Drainage Work															
B-1	1-1/2" Type-SP-9.5 Asphaltic Concrete	35000	SY	11.25	393,750.00	8.93	312,550.00	9.25	323,750.00	9.00	315,000.00	9.25	323,750.00	11.30	395,500.00
B-2	Milling Existing Asphalt Pavement (1-1/2" Avg Depth) & Haul Off	35000	SY	3.25	113,750.00	1.68	58,800.00	1.95	68,250.00	4.00	140,000.00	2.25	78,750.00	2.75	96,250.00
B-3	Swale Grading (Including Bahia Sodding)	750	SY	5.50	4,125.00	7.31	5,482.50	11.50	8,625.00	10.00	7,500.00	5.32	3,990.00	8.40	6,300.00
B-4	Asphalt Speed Hump Complete W/ Thermo Striping (Per Detail)	2	EA	6,000.00	12,000.00	3,543.75	7,087.50	13,000.00	26,000.00	3,800.00	7,600.00	11,183.00	22,366.00	4,100.00	8,200.00
B-5	Geotechnical Testing Allowance	1	Allow.	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00
B-6	Roadway Allowance	1	Allow.	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00
	Roadway Work Subtotal				**$ 1,039,625.00**		**$ 899,920.00**		**$ 942,625.00**		**$ 986,100.00**		**$ 944,856.00**		**$ 1,022,250.00**
C. Concrete Work															
C-1	Remove Existing Concrete (Sidewalk/Driveway/Curb)	2000	SY	5.00	10,000.00	7.40	14,800.00	14.50	29,000.00	30.00	60,000.00	5.00	10,000.00	7.20	14,400.00
C-2	Concrete Sidewalks (4" Thick)	1800	SY	45.00	81,000.00	40.47	72,846.00	44.00	79,200.00	50.00	90,000.00	40.00	72,000.00	45.00	81,000.00
C-3	Concrete Sidewalks And Driveways (6" Thick)	200	SY	55.00	11,000.00	63.61	12,722.00	47.00	9,400.00	60.00	12,000.00	57.00	11,400.00	50.00	10,000.00
C-4	Detectible Warning Surface	550	SY	24.00	$13,200.00	13.78	$7,579.00	37.00	$20,350.00	40.00	$22,000.00	35.00	$19,250.00	41.00	$22,550.00
C-5	Monolithic Curb and Sidewalk	100	SY	60.00	$6,000.00	84.47	$8,447.00	73.00	$7,300.00	70.00	$7,000.00	77.00	$7,700.00	49.00	$4,900.00
	Concrete Work Subtotal				**$ 121,200.00**		**$ 116,394.00**		**$ 145,250.00**		**$ 191,000.00**		**$ 120,350.00**		**$ 132,850.00**
E. Striping/Signage Work															
E-1	6" Solid Yellow Thermoplastic	1,400	LF	2.00	2800.00	0.84	1176.00	1.60	2240.00	1.00	1400.00	1.55	2170.00	2.00	2800.00
E-2	12" Solid Yellow Thermoplastic	1,450	LF	3.25	4712.50	2.21	3204.50	3.15	4567.50	2.00	2900.00	4.30	6235.00	3.00	4350.00
E-3	24" Solid White Thermoplastic	400	LF	7.00	2800.00	4.04	1616.00	4.25	1700.00	3.50	1400.00	8.60	3440.00	4.50	1800.00
E-4	Raised Pavement Markers	120	EA	7.00	840.00	3.94	472.80	6.00	720.00	5.00	600.00	9.00	1080.00	5.00	600.00
E-5	Single Sign Post Assembly, F&I, Less than 12SF	30	AS	300.00	9000.00	409.50	12285.00	400.00	12000.00	500.00	15000.00	595.00	17850.00	400.00	12000.00
E-6	Remove Existing Sign Assembly	30	EA	50.00	1500.00	52.50	1575.00	55.00	1650.00	50.00	1500.00	50.00	1500.00	80.00	2400.00
	Striping/Signage Work Total				**$ 21,652.50**		**$ 20,329.30**		**$ 22,877.50**		**$ 22,800.00**		**$ 32,275.00**		**$ 23,950.00**
F. Utility Work															
F-1	4" PVC Watermain Including Fittings	20	LF	50.00	1,000.00	27.76	555.20	46.00	920.00	60.00	1,200.00	23.00	460.00	33.00	660.00
F-2	6" PVC Watermain Including Fittings	9,060	LF	25.50	231,030.00	26.34	238,640.40	27.15	245,979.00	35.00	317,100.00	20.00	181,200.00	30.00	271,800.00
F-3	6"DIP Watermain Including Fittings	200	LF	36.00	7,200.00	65.19	13,038.00	89.00	17,800.00	60.00	12,000.00	40.00	8,000.00	52.00	10,400.00
F-4	8" PVC Watermain Including Fittings	1,560	LF	35.00	54,600.00	35.33	55,114.80	33.50	52,260.00	45.00	70,200.00	25.00	39,000.00	35.00	54,600.00
F-5	8" DIP Watermain Including Fittings	60	LF	40.00	2,400.00	99.65	5,979.00	130.00	7,800.00	75.00	4,500.00	66.00	3,960.00	83.00	4,980.00
F-6	6" Gate Valve with Box	36	EA	1,250.00	45,000.00	1,814.48	65,321.28	1,300.00	46,800.00	1,600.00	57,600.00	1,357.00	48,852.00	1,300.00	46,800.00
F-7	8" Gate Valve with Box	4	EA	1,800.00	7,200.00	2,246.78	8,987.12	1,805.00	7,220.00	2,000.00	8,000.00	1,757.00	7,028.00	1,600.00	6,400.00
F-8	Connect to Existing 4" Watermain	1	EA	650.00	650.00	1,817.03	1,817.03	3,500.00	3,500.00	3,500.00	3,500.00	2,547.00	2,547.00	3,000.00	3,000.00
F-9	Connect to Existing 6" Watermain	1	EA	750.00	750.00	2,633.07	2633.07	4500.00	4500.00	4000.00	4000.00	4500.00	4500.00	3700.00	3700.00
F-10	6" x 6" Tapping Sleeve, 6" Tapping Valve	7	EA	3,700.00	25,900.00	5,793.06	40551.42	3900.00	27300.00	5000.00	35000.00	5000.00	35000.00	8400.00	58800.00
F-11	8" x 8" Tapping Sleeve, 8" Tapping Valve	1	EA	4,500.00	4,500.00	7,146.43	7146.43	4800.00	4800.00	5500.00	5500.00	6167.00	6167.00	9100.00	9100.00
F-12	12" x 6" Tapping Sleeve, 6" Tapping Valve	4	EA	6,350.00	25,400.00	7,895.29	31581.16	4700.00	18800.00	6500.00	26000.00	6948.00	27792.00	9900.00	39600.00
F-13	16" x 6" Tapping Sleeve, 6" Tapping Valve	2	EA	8,100.00	16,200.00	17,122.22	34244.44	4900.00	9800.00	7500.00	15000.00	15246.00	30492.00	16000.00	32000.00
F-14	Abandon Existing Watermain	1	LS	24,000.00	24,000.00	51,698.07	51698.07	52000.00	52000.00	8500.00	8500.00	31000.00	31000.00	21000.00	21000.00
F-15	Sample Points and Laboratory Testing	18	EA	600.00	10,800.00	710.85	12795.30	550.00	9900.00	1000.00	18000.00	450.00	8100.00	250.00	4500.00
F-16	Fire Hydrant Assembly (Including Gate Valve and Tee)	16	EA	4,100.00	65,600.00	4,444.26	71108.16	4100.00	65600.00	5500.00	88000.00	4267.00	68272.00	4200.00	67200.00
F-17	1" Water Service Including Meter Box and Connection	128	EA	935.00	119,680.00	713.24	91294.72	1025.00	131200.00	1000.00	128000.00	599.00	76672.00	970.00	124160.00
F-18	2" Water Service Including Double Meter Box and Connection	44	EA	1,700.00	74,800.00	1,401.49	61665.56	1820.00	80080.00	1800.00	79200.00	1551.00	68244.00	1500.00	66000.00
F-19	1" Water Service w/ Single or Double Connection	93	EA	750.00	69,750.00	658.44	61234.92	880.00	81840.00	800.00	74400.00	643.00	59799.00	910.00	84630.00
F-20	2" Water Service w/Single or Double Connection	5	EA	1,500.00	7,500.00	1,601.76	8008.80	3300.00	16500.00	1500.00	7500.00	1395.00	6975.00	1600.00	8000.00
F-21	1" Water Service Including Meter Box and Connection With Drill Under Road	6	EA	1,600.00	9,600.00	1,762.51	10575.06	2300.00	13800.00	2500.00	15000.00	1849.00	11094.00	1500.00	9000.00
F-22	2" Water Service Including Meter Box and Connection With Drill Under Road	7	EA	3,000.00	21,000.00	2,412.53	16887.71	3300.00	23100.00	3500.00	24500.00	2572.00	18004.00	2000.00	14000.00
F-23	Relocate Water Service From Rear to Front On Private Property (Including Plumbing Permit)	174	EA	1,150.00	200,100.00	1,161.12	202034.88	1225.00	213150.00	1000.00	174000.00	754.00	131196.00	1100.00	191400.00
F-24	Asphalt Trench Restoration Including Base	8,000	SY	34.00	272,000.00	35.30	282400.00	53.00	424000.00	45.00	360000.00	27.00	216000.00	46.00	368000.00
F-25	Restoration - Landscapting, Fence, Irrigation, Etc.	1	LS	25,000.00	25,000.00	6,000.00	6000.00	66500.00	66500.00	50000.00	50000.00	135000.00	135000.00	30000.00	30000.00
F-26	Miscellaneous	1	LS	25,000.00	25,000.00	5,000.00	5000.00	25000.00	25000.00	100.00	100.00	45000.00	45000.00	5600.00	5600.00
F-27	Furnish Utility Crew and Equipment	100	HR	400.00	40,000.00	370.08	37008.00	450.00	45000.00	425.00	42500.00	563.00	56300.00	200.00	20000.00
F-28	Furnish Additional ductile Iron Fittings	2,000	LB	6.00	12,000.00	2.67	5340.00	4.00	8000.00	2.00	4000.00	4.30	8600.00	2.00	4000.00
F-29	1" Mill and Asphalt Overlay	450	SY	37.00	16,650.00	8.40	3780.00	14.00	6300.00	6.00	2700.00	15.00	6750.00	20.00	9000.00
F-30	Sanitary Sewer Lateral Replacement	10	EA	630.00	6,300.00	1,240.90	12409.00	1800.00	18000.00	1800.00	18000.00	825.00	8250.00	1200.00	12000.00
F-31	Utility Conflict Allowance	1	Allow.	100,000.00	100,000.00	100,000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00
	Utility Work Subtotal				**$ 1,521,610.00**		**$ 1,544,849.53**		**$ 1,827,449.00**		**$ 1,754,000.00**		**$ 1,450,254.00**		**$ 1,680,330.00**
G. Miscellaneous Work															
G-1	Adjust Inlet	20	EA	100.00	2,000.00	301.27	6,025.40	710.00	14,200.00	450.00	9,000.00	600.00	12,000.00	420.00	8,400.00
G-2	Adjust Manholes	10	EA	200.00	2,000.00	295.97	2,959.70	575.00	5,750.00	450.00	4,500.00	800.00	8,000.00	420.00	4,200.00
G-3	Adjust Valve box	10	EA	150.00	1,500.00	18.90	189.00	375.00	3,750.00	350.00	3,500.00	375.00	3,750.00	280.00	2,800.00
	Miscellaneous Work Subtotal				**$ 5,500.00**		**$ 9,174.10**		**$ 23,700.00**		**$ 17,000.00**		**$ 23,750.00**		**$ 15,400.00**
	Project Total (Items A through G)				**$ 2,881,587.50**		**$ 2,994,653.64**		**$ 3,194,001.50**		**$ 3,230,900.00**		**$ 3,232,575.00**		**$ 3,317,900.00**

Denotes corrected error

Bid Date: January 29, 2020

Bid Tabulation: Neighborhood Road Program District 1, Year 4, Project 2
City of Lake Worth Beach
IFB 20-102

Item	Description	Est. Quan.	Unit	Hinterland Group, Inc. Unit Cost	Hinterland Group, Inc. Total Amount	Southern Underground Industries, Inc. Unit Cost	Southern Underground Industries, Inc. Total Amount	Rick-Man Construction, Inc. Unit Cost	Rick-Man Construction, Inc. Total Amount	Centerline Utilities, Inc. Unit Cost	Centerline Utilities, Inc. Total Amount
A. General Items											
A-1	Mobilization and General Conditions	1	LS		150,000.00	110,000.00	110,000.00	305,302.00	305,302.00	122,250.00	122,250.00
A-2	Bonds and Insurance Requirements	1	LS		75,000.00	56,000.00	56,000.00	24,000.00	24,000.00	35,100.00	35,100.00
A-3	Maintenance of Traffic	1	LS		25,000.00	74,500.00	74,500.00	52,250.00	52,250.00	40,000.00	40,000.00
A-4	NPDES Compliance	1	LS		15,000.00	42,250.00	42,250.00	2,700.00	2,700.00	10,000.00	10,000.00
A-5	Pre-Construction Video	1	LS		20,000.00	4,350.00	4,350.00	3,805.00	3,805.00	15,000.00	15,000.00
A-6	Layout, Survey, and Record Drawings	1	LS		50,000.00	74,500.00	74,500.00	54,100.00	54,100.00	40,000.00	40,000.00
A-7	Clearing and Grubbing (except pavement and concrete)	1	LS		20,000.00	40,000.00	40,000.00	76,100.00	76,100.00	30,000.00	30,000.00
	General Items Subtotal				**$ 355,000.00**		**$ 401,600.00**		**$ 518,257.00**		**$ 292,350.00**
B. Roadway and Drainage Work											
B-1	1-1/2" Type-SP-9.5 Asphaltic Concrete	35000	SY	12.00	420,000.00	11.00	385,000.00	9.75	341,250.00	10.90	381,500.00
B-2	Milling Existing Asphalt Pavement (1-1/2" Avg Depth) & Haul Off	35000	SY	3.00	105,000.00	3.00	105,000.00	2.50	87,500.00	2.80	98,000.00
B-3	Swale Grading (Including Bahia Sodding)	750	SY	15.00	11,250.00	18.00	13,500.00	8.75	6,562.50	58.00	43,500.00
B-4	Asphalt Speed Hump Complete W/ Thermo Striping (Per Detail)	2	EA	4,500.00	9,000.00	4,000.00	8,000.00	4,350.00	8,700.00	4,500.00	9,000.00
B-5	Geotechnical Testing Allowance	1	Allow.	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00	16,000.00
B-6	Roadway Allowance	1	Allow.	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00	500,000.00
	Roadway Work Subtotal				**$ 1,061,250.00**		**$ 1,027,500.00**		**$ 960,012.50**		**$ 1,048,000.00**
C. Concrete Work											
C-1	Remove Existing Concrete (Sidewalk/Driveway/Curb)	2000	SY	5.00	10,000.00	24.00	48,000.00	7.75	15,500.00	38.00	76,000.00
C-2	Concrete Sidewalks (4" Thick)	1800	SY	45.00	81,000.00	50.00	90,000.00	44.15	79,470.00	63.50	114,300.00
C-3	Concrete Sidewalks And Driveways (6" Thick)	200	SY	55.00	11,000.00	87.00	17,400.00	50.75	10,150.00	75.00	15,000.00
C-4	Detectible Warning Surface	550	SY	65.00	35,750.00	42.00	$23,100.00	27.25	$14,987.50	52.00	$28,600.00
C-5	Single Sign Post Assembly, F&I, Less than 12SF	100	SY	85.00	8,500.00	32.00	$3,200.00	60.00	$6,000.00	75.00	$7,500.00
	Concrete Work Subtotal				**$ 146,250.00**		**$ 181,700.00**		**$ 126,107.50**		**$ 241,400.00**
E. Striping/Signage Work											
E-1	6" Solid Yellow Thermoplastic	1,400	LF	1.50	2100.00	1.20	1680.00	1.10	1540.00	1.10	1540.00
E-2	12" Solid Yellow Thermoplastic	1,450	LF	3.00	4350.00	2.40	3480.00	2.15	3117.50	2.90	4205.00
E-3	24" Solid White Thermoplastic	400	SY	10.00	4000.00	4.79	1916.00	4.35	1740.00	11.75	4700.00
E-4	Raised Pavement Markers	120	EA	15.00	1800.00	8.00	960.00	3.80	456.00	7.00	840.00
E-5	Single Sign Post Assembly, F&I, Less than 12SF	30	AS	300.00	9000.00	466.00	13980.00	326.00	9780.00	555.00	16650.00
E-6	Remove Existing Sign Assembly	30	EA	100.00	3000.00	100.00	3000.00	55.00	1650.00	70.00	2100.00
	Striping/Signage Work Total				**$ 24,250.00**		**$ 25,016.00**		**$ 18,283.50**		**$ 30,035.00**
F. Utility Work											
F-1	4" PVC Watermain Including Fittings	20	LF	24.00	480.00	60.00	1,200.00	78.00	1,560.00	48.00	960.00
F-2	6" PVC Watermain Including Fittings	9,060	LF	24.00	217,440.00	31.00	280,860.00	25.50	231,030.00	32.00	289,920.00
F-3	6"DIP Watermain Including Fittings	200	LF	36.00	7,200.00	60.00	12,000.00	66.75	13,350.00	70.00	14,000.00
F-4	8" PVC Watermain Including Fittings	1,560	LF	30.00	46,800.00	30.00	46,800.00	34.25	53,430.00	40.00	62,400.00
F-5	8" DIP Watermain Including Fittings	60	EA	45.00	2,700.00	75.00	4,500.00	173.00	10,380.00	95.00	5,700.00
F-6	6" Gate Valve with Box	36	EA	1,200.00	43,200.00	1,177.00	42,372.00	1,222.00	43,992.00	1,300.00	46,800.00
F-7	8" Gate Valve with Box	4	EA	1,400.00	5,600.00	1,610.00	6,440.00	1,656.00	6,624.00	1,800.00	7,200.00
F-8	Connect to Existing 4" Watermain	1	EA	2,400.00	2,400.00	3,500.00	3,500.00	3,000.00	3,000.00	5,000.00	5,000.00
F-9	Connect to Existing 6" Watermain	1	EA	3200.00	3200.00	5400.00	5400.00	3500.00	3500.00	5250.00	5250.00
F-10	6" x 6" Tapping Sleeve, 6" Tapping Valve	7	EA	6500.00	45500.00	3400.00	23800.00	4500.00	31500.00	5150.00	36050.00
F-11	8" x 8" Tapping Sleeve, 8" Tapping Valve	1	EA	7500.00	7500.00	8200.00	8200.00	5470.00	5470.00	6200.00	6200.00
F-12	12" x 6" Tapping Sleeve, 6" Tapping Valve	4	EA	6800.00	27200.00	8900.00	35600.00	6261.00	25044.00	5850.00	23400.00
F-13	16" x 6" Tapping Sleeve, 6" Tapping Valve	2	EA	7800.00	15600.00	16000.00	32000.00	11960.00	23920.00	6675.00	13350.00
F-14	Abandon Existing Watermain	1	LS	125000.00	125000.00	5400.00	5400.00	46500.00	46500.00	37000.00	37000.00
F-15	Sample Points and Laboratory Testing	18	EA	1000.00	18000.00	915.00	16470.00	465.00	8370.00	615.00	11070.00
F-16	Fire Hydrant Assembly (Including Gate Valve and Tee)	16	EA	4200.00	67200.00	5200.00	83200.00	3950.00	63200.00	4850.00	77600.00
F-17	1" Water Service Including Meter Box and Connection	128	EA	850.00	108800.00	1100.00	140800.00	926.00	118528.00	1275.00	163200.00
F-18	2" Water Service Including Double Meter Box and Connection	44	EA	1200.00	52800.00	2100.00	92400.00	1474.00	64856.00	2250.00	99000.00
F-19	8" Water Service w/ Single or Double Connection	93	EA	1100.00	102300.00	1015.00	94395.00	785.00	73005.00	1065.00	99045.00
F-20	2" Water Service w/Single or Double Connection	5	EA	1800.00	9000.00	2100.00	10500.00	1514.00	7570.00	1990.00	9950.00
F-21	1" Water Service Including Meter Box and Connection With Drill Under Road	6	EA	1500.00	9000.00	1100.00	6600.00	2321.00	13926.00	4120.00	24720.00
F-22	2" Water Service Including Meter Box and Connection With Drill Under Road	7	EA	2400.00	16800.00	2100.00	14700.00	3055.00	21385.00	5250.00	36750.00
F-23	Relocate Water Service From Rear to Front On Private Property (Including Plumbing Permit)	174	EA	650.00	113100.00	1105.00	192270.00	1443.00	251082.00	1510.00	262740.00
F-24	Asphalt Trench Restoration Including Base	8,000	SY	50.00	400000.00	40.00	320000.00	36.10	288800.00	70.00	560000.00
F-25	Restoration - Landscaping, Fence, Irrigation, Etc.	1	LS	50000.00	50000.00	43000.00	43000.00	46500.00	46500.00	85000.00	85000.00
F-26	Miscellaneous	1	LS	35000.00	35000.00	25000.00	25000.00	5500.00	5500.00	2500.00	2500.00
F-27	Furnish Utility Crew and Equipment	100	HR	450.00	45000.00	600.00	60000.00	495.00	49500.00	385.00	38500.00
F-28	Furnish Additional ductile Iron Fittings	2,000	LB	5.00	10000.00	14.00	28000.00	104.00	208000.00	8.00	16000.00
F-29	1" Mill and Asphalt Overlay	450	SY	35.00	15750.00	14.00	6300.00	12.20	5490.00	25.00	11250.00
F-30	Sanitary Sewer Lateral Replacement	10	EA	1800.00	18000.00	1600.00	16000.00	2000.00	20000.00	1400.00	14000.00
F-31	Utility Conflict Allowance	1	Allow.	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00	100000.00
	Utility Work Subtotal				**$ 1,720,570.00**		**$ 1,757,707.00**		**$ 1,845,012.00**		**$ 2,164,555.00**
G. Miscellaneous Work											
G-1	Adjust Inlet	20	EA	1,500.00	30,000.00	690.00	13,800.00	535.15	10,703.00	1,250.00	25,000.00
G-2	Adjust Manholes	10	EA	1,500.00	15,000.00	407.00	4,070.00	414.37	4,143.70	950.00	9,500.00
G-3	Adjust Valve box	10	EA	800.00	8,000.00	592.00	5,920.00	309.58	3,095.80	600.00	6,000.00
	Miscellaneous Work Subtotal				**$ 53,000.00**		**$ 23,790.00**		**$ 17,942.50**		**$ 40,500.00**
	Project Total (Items A through G)				**$ 3,360,320.00**		**$ 3,417,313.00**		**$ 3,485,615.00**		**$ 3,816,840.00**