

DAMDWCA WWTP District 5 Improvements

Bid Tabulation

6/19/2018

Item	Item Description	Unit	Qty	SMA		Morrow Enterprises, Inc.		C & E Industrial Services		Smithco Construction, Inc.	
				Unit Price	Total Price	Bidder No. 1		Bidder No. 2		Bidder No. 3	
						Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	Furnish full-coverage video documentation of the entire construction site (DVD Format)	EA	2	\$500.00	\$1,000.00	\$305.00	\$610.00	\$845.02	\$1,690.04	\$1,000.00	\$2,000.00
2	Material Testing (Compaction and Moisture)	ALLOW	1	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00
3	Laboratory Equipment	ALLOW	1	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00	\$35,000.00
4	Temporary flow by-pass (include all equipment needed to by-pass WWTP as needed for improvements while maintaining a functioning treatment process, temporary piping and connection to airlines, temporary electrical and all other appurtenances required)	LS	1	\$20,000.00	\$20,000.00	\$196,886.00	\$196,886.00	\$18,278.27	\$18,278.27	\$100,000.00	\$100,000.00
5	SWPPP Preparation and Implementation	LS	1	\$5,000.00	\$5,000.00	\$2,200.00	\$2,200.00	\$5,070.10	\$5,070.10	\$10,000.00	\$10,000.00
6	Site demolition (include demolition, removal, abandoning of existing utilities, structures, pumping and disposal of sludge and fencing as required for WWTP improvements), Complete-In-Place (CIP)	LS	1	\$20,000.00	\$20,000.00	\$26,546.00	\$26,546.00	\$44,673.21	\$44,673.21	\$85,000.00	\$85,000.00
7	Site grading (include proper compaction, moisture content needed for proper backfilling for new concrete slabs as shown on plans, proper slope as shown on plans, ponding with rip rap, drainage swales and all other appurtenances required for a complete), CIP	LS	1	\$15,000.00	\$15,000.00	\$76,556.00	\$76,556.00	\$53,517.72	\$53,517.72	\$75,000.00	\$75,000.00
8	Furnish and Install new Selector basin triplex pump system (include lifting guide rails, check valve, floats, control panel to connect to SCADA system, portable hoist mount and all other appurtenances required for a complete working installation), CIP	LS	1	\$10,000.00	\$10,000.00	\$100,136.00	\$100,136.00	\$226,002.52	\$226,002.52	\$115,000.00	\$115,000.00
9	Furnish and Install new 6-inch effluent purple pipe (include restraints, fittings, trenching, excavation, backfill, compaction, connection to existing effluent line and all other appurtenances required for a complete working installation), CIP	LF	547	\$20.00	\$10,940.00	\$68.00	\$37,196.00	\$52.50	\$28,717.50	\$45.00	\$24,615.00
10	Furnish and Install new 6-inch isolation plug valve (include restraints, extension to grade and all other appurtenances required for a complete working installation), CIP	EA	3	\$2,000.00	\$6,000.00	\$2,703.00	\$8,109.00	\$2,221.83	\$6,665.49	\$2,300.00	\$6,900.00
11	Furnish and Install new 6-inch sewer force main pipe (include restraints, fittings, trenching, excavation, backfill, compaction, connection to existing effluent line and all other appurtenances required for a complete working installation), CIP	LF	77	\$20.00	\$1,540.00	\$71.00	\$5,467.00	\$67.89	\$5,227.53	\$42.00	\$3,234.00
12	Furnish and Install new concrete splitter box (include isolation sluice gate, imbedded steps, aluminum grating, coating, PVC piping to secondary treatment and all other appurtenances required for a complete working installation), CIP	LS	1	\$20,000.00	\$20,000.00	\$52,972.00	\$52,972.00	\$39,069.06	\$39,069.06	\$45,000.00	\$45,000.00
13	Furnish and Install new 1-foot wide by 10'-10" tall concrete partition wall inside existing concrete basin (include reinforcement, coating, waterproofing, water stop, and all other appurtenances required for a complete working installation), CIP	EA	1	\$20,000.00	\$20,000.00	\$30,647.00	\$30,647.00	\$59,148.91	\$59,148.91	\$80,000.00	\$80,000.00
14	Furnish and Install new 1-foot wide by 10'-10" tall concrete baffle wall inside existing concrete basin (include reinforcement, coating, waterproofing, water stop, and all other appurtenances required for a complete working installation), CIP	EA	1	\$5,000.00	\$5,000.00	\$10,003.00	\$10,003.00	\$80,257.43	\$80,257.43	\$7,500.00	\$7,500.00
15	Furnish and Install new concrete Clarifier Channel (include reinforcement, waterproofing, water stop, and all other appurtenances required for a complete working installation), CIP	LS	1	\$35,000.00	\$35,000.00	\$81,612.00	\$81,612.00	\$113,284.06	\$113,284.06	\$165,000.00	\$165,000.00
16	Furnish and Install new Clarifier Channel equipment (include distribution line to clarifiers, slidegates, screen and all other appurtenances required for a complete working installation), CIP	LS	1	\$15,000.00	\$15,000.00	\$63,198.00	\$63,198.00	\$100,908.51	\$100,908.51	\$130,000.00	\$130,000.00
17	Furnish and Install new concrete basins for new Clarifier and RAS channel (include reinforcement, waterproofing, water stop, and all other appurtenances required for a complete working installation), CIP	LS	1	\$140,000.00	\$140,000.00	\$499,000.00	\$499,000.00	\$441,962.86	\$441,962.86	\$350,000.00	\$350,000.00
18	Furnish and Install new Clarator Model #20400 (include skimmers, walkways, effluent discharge weirs, hydraulic suction hoods, airlifts, effluent piping to Disk Filter, piping and screening from Clarifier channel and all other appurtenances required for a complete working installation), CIP	LS	1	\$100,000.00	\$100,000.00	\$1,003,974.76	\$1,003,974.76	\$102,697.69	\$102,697.69	\$340,000.00	\$340,000.00
19	Furnish and Install new concrete basin for new Chlorine Contact Chamber (include reinforcement, waterproofing, water stop, and all other appurtenances required for a complete working installation), CIP	LS	1	\$50,000.00	\$50,000.00	\$123,680.00	\$123,680.00	\$31,810.93	\$31,810.93	\$85,000.00	\$85,000.00
20	Furnish and Install new ductile iron air piping (include wall penetrations, tees at diffuser drops, bends, transition to PVC, connection to new blowers, reducers, supports and all other appurtenances required for a complete working installation), CIP	LS	1	\$30,000.00	\$30,000.00	\$89,971.00	\$89,971.00	\$98,813.99	\$98,813.99	\$90,000.00	\$90,000.00
21	Furnish and Install new PVC air piping (include tees at diffuser drops, bends, stainless steel restraints, transition to DI, reducers, supports and all other appurtenances required for a complete working installation), CIP	LS	1	\$20,000.00	\$20,000.00	\$105,453.00	\$105,453.00	\$160,301.91	\$160,301.91	\$100,000.00	\$100,000.00
22	Furnish and Install new Wall Aerators (include diffusers, PVC drop pipe, SS pipe, union, ball valve, flexible pipe, wall bracket and all other appurtenances required for a complete working installation), CIP	LS	1	\$160,000.00	\$160,000.00	\$32,968.00	\$32,968.00	\$112,837.89	\$112,837.89	\$130,000.00	\$130,000.00



**DAMDWCA WWTP District 5 Improvements**

Bid Tabulation

6/19/2018

Item	Item Description	Unit	Qty	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
23	Furnish and Install new Aeration Equipment (include DO meters, Algae transducers, supernatant pipes, manual butterfly valves, actuated butterfly valves, throttling butterfly valves, pneumatic lines, electrical positioning valve, Air flow Conditioner, Air Flow Sensor, and all other appurtenances required for a complete working installation), CIP	LS	1	\$50,000.00	\$50,000.00	\$17,331.00	\$17,331.00	\$208,728.12	\$208,728.12	\$180,000.00	\$180,000.00
24	Furnish and Install new concrete slab at existing Chlorine Contact Chamber (include rebar, backfilling of existing tank, weep holes and all other appurtenances required for a complete working installation), CIP	LS	1	\$10,000.00	\$10,000.00	\$26,353.00	\$26,353.00	\$225.34	\$225.34	\$45,000.00	\$45,000.00
25	Furnish and Install new Solids Wasting Airlift AL-300 (include wall penetration, connection to existing concrete wall and all other appurtenances required for a complete working installation), CIP	EA	2	\$10,000.00	\$20,000.00	\$7,565.00	\$15,130.00	\$59,673.95	\$119,347.90	\$9,500.00	\$19,000.00
26	Chlorination Station (include 300-gallon poly tank, (2) pumps, tubing, calibration column 6 months supply of chemical, mag-drive chemical transfer pump, water supply, injection ports and all related appurtenances required for a complete working installation), CIP	LS	1	\$45,000.00	\$45,000.00	\$40,834.00	\$40,834.00	\$119,347.90	\$119,347.90	\$35,000.00	\$35,000.00
27	Furnish and Install a duplex effluent pump system (include (2) pumps, with lifting Guide rail system, air release valve, plug valve, check valve, 4-inch discharge line, connection to existing effluent line, pitless adapter and all related appurtenances required for a complete working installation), CIP	LS	1	\$10,000.00	\$10,000.00	\$94,429.00	\$94,429.00	\$267,572.83	\$267,572.83	\$140,000.00	\$140,000.00
28	Furnish and Install Chlorine Analyzer (incl sampling port on Ductile Iron pipe, piping, solenoid, isolation valve and check valve), CIP	EA	1	\$5,000.00	\$5,000.00	\$4,553.00	\$4,553.00	\$17,553.81	\$17,553.81	\$20,000.00	\$20,000.00
29	Furnish and Install Turbidity meter (incl. sampling port on Ductile Iron pipe, solenoid, isolation valve, and check valve), CIP	EA	1	\$5,000.00	\$5,000.00	\$770.00	\$770.00	\$17,148.20	\$17,148.20	\$20,000.00	\$20,000.00
30	Furnish and Install New 4-inch Ultrasonic Clamp on Flow Meter (include cable, sensor, 420 MA signals for SCADA connection, enclosure, concrete vault and all related appurtenances required for a complete working installation), CIP	EA	1	\$12,000.00	\$12,000.00	\$7,092.00	\$7,092.00	\$18,251.23	\$18,251.23	\$20,000.00	\$20,000.00
31	Furnish and Install New plant walkways (include aluminum handrails, stair cases and all related appurtenances required for a complete working installation), CIP	LS	1	\$70,000.00	\$70,000.00	\$27,412.00	\$27,412.00	\$8,562.84	\$8,562.84	\$115,000.00	\$115,000.00
32	Furnish and install 1-inch PVC water service line (include excavation, backfill, compaction, polyethylene pipe, and all other appurtenances required for a complete working installation), CIP	LF	500	\$20.00	\$10,000.00	\$18.00	\$9,000.00	\$40.16	\$20,080.00	\$20.00	\$10,000.00
33	Furnish and Install 1-inch PVC water service tap with ball valve (include excavation, backfill, compaction, polyethylene pipe, and all other appurtenances required for a complete working installation), CIP	EA	3	\$100.00	\$300.00	\$588.00	\$1,764.00	\$1,910.49	\$5,731.47	\$800.00	\$2,400.00
34	Furnish and install 1-inch Yard Hydrant (include excavation, backfill, compaction, and all other appurtenances required for a complete working installation), CIP	EA	7	\$600.00	\$4,200.00	\$1,158.00	\$8,106.00	\$1,615.99	\$11,311.93	\$1,000.00	\$7,000.00
35	Furnish and Install new gravel driveway (include labor and material to place a 4-inch thick gravel driveway and all other appurtenances requires), CIP	SY	1,160	\$15.00	\$17,400.00	\$10.00	\$11,600.00	\$6.80	\$7,888.00	\$18.00	\$20,880.00
36	Electrical Service for Building (includes coordination with local electrical utility company to extend power to new electrical panel in blower building, Electrical Company invoices must be approved by Engineer and Owner, and extension of power to new improvements)	ALLOW	1	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00
37	Furnish and Install 3-phase backup power generator (include concrete slab and all other appurtenances not included on bid form), CIP	EA	1	\$80,000.00	\$80,000.00	\$103,718.00	\$103,718.00	\$95,192.81	\$95,192.81	\$110,000.00	\$110,000.00
38	New SCADA system (includes Electrical service, programming, transmitter, SCADA radio, transducers, level sensors, (2) Computers and all other appurtenances required for a complete working installation), CIP	LS	1	\$200,000.00	\$200,000.00	\$66,210.00	\$66,210.00	\$116,902.98	\$116,902.98	\$120,000.00	\$120,000.00
39	New Blower Building (incl. blower equipment, sound enclosures, variable frequency drive, desiccant dryer, dry air storage tank, air compressor equipment, control panels, concrete foundation, exterior, interior walls, electrical, HVAC, plumbing, plumbing, valves, doors, site utility extensions, etc.) As Shown on Plans and detailed in Technical Specifications, CIP	LS	1	\$300,000.00	\$300,000.00	\$335,271.00	\$335,271.00	\$319,624.73	\$319,624.73	\$550,000.00	\$550,000.00
40	Furnish and install new disk filter system (include concrete foundation, Sump basin, CMU wall, electrical, backwash line to Selector Tank, Overflow line to Selector Tank, Effluent line to CCC and all related appurtenances required for a complete working installation), CIP	LS	1	\$156,000.00	\$156,000.00	\$214,510.00	\$214,510.00	\$390,228.69	\$390,228.69	\$245,000.00	\$245,000.00
41	Furnish and Install New sample station (include double strap saddle, corporation stop assembly, pipe, fittings, meter box, meter setting equipment, connection to service line, quick disconnect, extension pipe, pressure gauge, operating valve and all other appurtenances required for a complete working installation), CIP	EA	1	\$500.00	\$500.00	\$4,267.00	\$4,267.00	\$2,442.66	\$2,442.66	\$26,000.00	\$26,000.00
42	Furnish and Install New Effluent Pond Liner (include 60 Mil HDPE smooth floor liner, pipe inlet structure, textured side slope liner, weld, pipe penetrations and integrity testing of the liner)	SF	25,047	\$2.00	\$50,094.00	\$1.00	\$25,047.00	\$1.34	\$33,562.98	\$3.00	\$75,141.00



DAMDWCA WWTP District 5 Improvements

Bid Tabulation  
6/19/2018

Item	Item Description	Unit	Qty	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
43	Furnish and Install new effluent return pump system (include pump, concrete pad with anchoring, DI pipe, check valve, fittings, trash guard, piping to head of plant and all other appurtenances required for a complete working installation), CIP	LS	1	\$10,000.00	\$10,000.00	\$53,615.00	\$53,615.00	\$76,254.30	\$76,254.30	\$65,000.00	\$65,000.00
44	Secure/re-anchor existing handrails	LS	1	\$5,000.00	\$5,000.00	\$7,565.00	\$7,565.00	\$3,667.37	\$3,667.37	\$9,000.00	\$9,000.00
45	Remove and Dispose existing sludge from tanks (include transport, disposal to an approved site, metering and all other appurtenances required for a complete working installation), CIP	GAL.	110,000	\$0.65	\$71,500.00	\$0.26	\$28,600.00	\$0.68	\$74,800.00	\$0.50	\$55,000.00
46	Mobilization and Demobilization	LS	1	\$75,000.00	\$75,000.00	\$17,330.00	\$17,330.00	\$33,800.67	\$33,800.67	\$200,000.00	\$200,000.00
Base Bid:				\$1,971,474.00		\$3,747,691.76		\$3,779,162.38		\$4,113,670.00	
Written Total:				\$1,971,474.00		\$3,747,691.76		\$3,778,917.27		\$4,113,670.00	
Difference:				\$0.00		\$0.00		-\$245.11		\$0.00	
<b>Additive Alternative No. 1</b>											
1.1	Furnish and install new screw press dewatering system (include premanufactured shade structure, gooseneck flanges for feed pump, concrete foundation, electrical, air compressor equipment, backwash line, isolation valves, drain line, sludge feed line, penetrations to existing concrete, sludge feed pumps, foot valves at the end of sludge line, screw conveyor and all related appurtenances required for a complete working installation), CIP	LS	1	\$312,000.00	\$312,000.00	\$439,950.00	\$439,950.00	\$376,167.00	\$376,167.00	\$450,000.00	\$450,000.00
1.2	Screw Press Polymer Feed Station (include poly tank, mixer, (2) feed pumps, calibration column, tubing, 6 months supply of chemical, mag-drive chemical transfer pump, water supply, injection ports and all related appurtenances required for a complete working installation), CIP	LS	1	\$65,000.00	\$65,000.00	\$14,721.00	\$14,721.00	\$20,070.00	\$20,070.00	\$7,000.00	\$7,000.00
Additive Alternative No. 1:				\$377,000.00		\$454,671.00		\$396,237.00		\$457,000.00	
Written Total:				\$377,000.00		\$454,671.00		\$396,237.00		\$457,000.00	
Difference:				\$0.00		\$0.00		\$0.00		\$0.00	
<b>Additive Alternative No. 2</b>											
2.1	Furnish and Install Four Foot High Chain Link Fence (incl. removal and disposal of existing fence and all related appurtenances), CIP	LF	780	\$15.00	\$11,700.00	\$29.00	\$22,620.00	\$16.73	\$13,049.40	\$20.00	\$15,600.00
Additive Alternative No. 2:				\$11,700.00		\$22,620.00		\$13,049.40		\$15,600.00	
Written Total:				\$11,700.00		\$22,620.00		\$13,046.00		\$15,600.00	
Difference:				\$0.00		\$0.00		-\$3.40		\$0.00	
<b>Additive Alternative No. 3</b>											
3.1	Furnish and Install new coating for existing concrete tanks (include inspection of tanks and all other appurtenances required for a complete working installation), CIP	SQ. Ft.	23,120	\$18.00	\$416,160.00	\$27.00	\$624,240.00	\$29.00	\$670,480.00	\$23.00	\$531,760.00
Additive Alternative No. 3:				\$416,160.00		\$624,240.00		\$670,480.00		\$531,760.00	
Written Total:				\$416,160.00		\$624,240.00		\$670,480.00		\$531,760.00	
Difference:				\$0.00		\$0.00		\$0.00		\$0.00	
<b>Total w/ Additive Alternatives</b>				\$2,776,334.00		\$4,849,222.76		\$4,858,928.78		\$5,118,030.00	

\*Cells with red text indicate that a correction has been made in accordance with Article 14.01.C of the Instructions to Bidders (C-200)

**CERTIFICATION:**

I certify that the above figures are the evaluated bid prices from those submitted in the Bid Form.



Lilla J. Reid, P.E.  
Souder, Miller & Associates

19-Jun-18

Date

