

RESOLUTION NO. 2015-_____

A RESOLUTION AWARDED A CONTRACT TO FRED M. SCHIAVONE CONST. INC., MALAGA, NJ FOR THE COMPLETION OF BURNT MILL POND DAM REHABILITATION, IN THE AMOUNT OF \$770,164.85.

WHEREAS, the City of Vineland has heretofore advertised for bids for the Completion of Burnt Mill Pond Dam Rehabilitation, in accordance with specifications on file in the office of the Purchasing Agent; and

WHEREAS, on July 28, 2015, bids were received, duly opened and read aloud, being referred to the Assistant Business Administrator for tabulation, evaluation, report and recommendation; and

WHEREAS, the Assistant Business Administrator has, under date of August 18, 2015 submitted a written report and tabulation of the bids received and has recommended that a contract for the Completion of Burnt Mill Pond Dam Rehabilitation, be awarded to Fred M. Schiavone Const. Inc., Malaga, NJ, in the amount of \$770,164.85, said bid being the lowest bid received and considered in the best interest of the City of Vineland; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland that said contract for the Completion of Burnt Mill Pond Dam Rehabilitation, be and the same is awarded to Fred M. Schiavone Const. Inc., Malaga, NJ, on their bid in the amount of \$770,164.85, said bid being the lowest bid received and considered in the best interest of the City of Vineland, and the Purchasing Agent be and the same is hereby authorized and directed to issue purchase order contract for the same in behalf of the City; and

BE IT FURTHER RESOLVED that the City Comptroller has certified that the funds for the contract to be awarded herein are available.

Adopted:

President of Council

ATTEST:

City Clerk



August 18, 2015

REPORT TO: THE MAYOR AND COUNCIL

RE: Proposals Submitted to the Purchasing Board 7/28/15

Dear Mayor and Members of Council:

Submitted to you herewith for your consideration is our evaluation of the proposals submitted to the Purchasing Board on July 28, 2015.

COMPLETION OF CITY-WIDE DRAINAGE IMPROVEMENTS PROJECT

It is the recommendation of the City Engineer, which has the concurrence of the Purchasing Agent and the Assistant Business Administrator that a contract be awarded to the low bidder, Kline Construction Co., Inc., Galloway, NJ, in the amount of \$327,052.25.

COMPLETION OF BURNT MILL POND DAM REHABILITATION

It is the recommendation of the City Engineer, which has the concurrence of the Purchasing Agent and the Assistant Business Administrator that a contract be awarded to the low bidder, Fred M. Schiavone Const. Inc., Malaga, NJ, in the amount of \$770,164.85.

We trust that the above recommendation will receive your favorable consideration and that the recommended resolutions will be adopted as presented.

Respectfully submitted,

A handwritten signature in blue ink, appearing to read "Robert Dickenson", is written over a faint circular stamp.

Robert Dickenson
Assistant Business Administrator

/wr

BURNT MILL POND DAM REHABILITATION FINANCIAL/BUDGETARY ESTIMATIONS

Engineer's Estimate	\$ 489,108.50
Remaining Bond Estimate (3/31/15 Tosto Email)	
2012-9 Burnt Mill	\$ 664,634.60
2012-9 Memorial	\$ 22,746.75
	\$ 687,381.35
Innoprise 7/28/15 Total	\$ 686,995.88
Construction Inspection (7/28/15 award)	\$ 48,909.35
	\$ 638,086.53
Estimate of Available Funding	\$ 638,000.00
Fred M. Schiavone Construction Bid	\$ 770,164.85
Shortage in Bond Funding	\$ (132,164.85)

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CITY OF VINELAND
BURNT MILL POND DAM REHABILITATION
BID TABULATION

BID OPENING DATE JULY 28, 2015

CONTRACT INFORMATION				ENGINEER'S ESTIMATE		FRED M. SCHIAVONE CONST. INC.				SOUTH STATE INC.				MOUNT CONSTRUCTION CO., INC.			
ITEM NO.	DESCRIPTION	UNITS	CONTRACT QUANTITY	ENG. EST UNIT PRICE	ENG. EST. TOTAL	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)
1	TRAFFIC CONTROL	LS	1	\$5,000.00	\$ 5,000.00	\$ 8,190.00	\$ 8,190.00	163.80%	\$3,190.00	\$ 500.00	\$ 500.00	10.00%	(\$4,500.00)	\$ 5,000.00	\$ 5,000.00	100.00%	
2	CLEARING SITE	LS	1	\$12,000.00	\$ 12,000.00	\$ 55,984.50	\$ 55,984.50	466.54%	\$43,984.50	\$ 46,000.00	\$ 46,000.00	383.33%	\$34,000.00	\$ 85,000.00	\$ 85,000.00	708.33%	\$73,000.00
3	STRIPPING	SY	2,950	\$1.50	\$ 4,425.00	\$ 3.18	\$ 9,381.00	212.00%	\$4,956.00	\$ 3.50	\$ 10,325.00	233.33%	\$5,900.00	\$ 2.00	\$ 5,900.00	133.33%	\$1,475.00
4	EXCAVATION, UNCLASSIFIED (OFF-SITE SPOIL)	CY	1,200	\$27.00	\$ 32,400.00	\$ 19.89	\$ 23,868.00	73.67%	(\$8,532.00)	\$ 40.00	\$ 48,000.00	148.15%	\$15,600.00	\$ 36.00	\$ 43,200.00	133.33%	\$10,800.00
5	EXCAVATION, UNCLASSIFIED (RE-USE ON-SITE)	CY	500	\$22.00	\$ 11,000.00	\$ 11.12	\$ 5,560.00	50.55%	(\$5,440.00)	\$ 21.00	\$ 10,500.00	95.45%	(\$500.00)	\$ 30.00	\$ 15,000.00	136.36%	\$4,000.00
6	BACKFILL, UNCLASSIFIED	CY	500	\$34.00	\$ 17,000.00	\$ 8.19	\$ 4,095.00	24.09%	(\$12,905.00)	\$ 44.00	\$ 22,000.00	129.41%	\$5,000.00	\$ 31.00	\$ 15,500.00	91.18%	(\$1,500.00)
7	IMPORTED STRUCTURAL FILL	CY	700	\$30.00	\$ 21,000.00	\$ 35.10	\$ 24,570.00	117.00%	\$3,570.00	\$ 84.00	\$ 58,800.00	280.00%	\$37,800.00	\$ 20.00	\$ 14,000.00	66.67%	(\$7,000.00)
8	CONSTRUCTION ENTRANCE/TIRE CLEANER	SY	115	\$24.50	\$ 2,817.50	\$ 23.40	\$ 2,691.00	95.51%	(\$126.50)	\$ 0.01	\$ 1.15	0.04%	(\$2,816.35)	\$ 65.00	\$ 7,475.00	265.31%	\$4,657.50
9	SILT FENCE	LF	1,200	\$4.00	\$ 4,800.00	\$ 4.68	\$ 5,616.00	117.00%	\$816.00	\$ 10.00	\$ 12,000.00	250.00%	\$7,200.00	\$ 5.00	\$ 6,000.00	125.00%	\$1,200.00
10	SNOW FENCE (TREE PROTECTION)	LF	730	\$6.00	\$ 4,380.00	\$ 9.36	\$ 6,832.80	156.00%	\$2,452.80	\$ 4.50	\$ 3,285.00	75.00%	(\$1,095.00)	\$ 8.00	\$ 5,840.00	133.33%	\$1,460.00
11	TEMPORARY COFFER DAM, 280 LF (PORTADAM)	LS	1	\$49,200.00	\$ 49,200.00	\$123,815.25	\$ 123,815.25	251.66%	\$74,615.25	\$160,000.00	\$ 160,000.00	325.20%	\$110,800.00	\$136,000.00	\$ 136,000.00	276.42%	\$86,800.00
12	DEWATERING (INCL. PUMP, HOSE, BASIN, SEDIMENT FILTRATION, TURBIDITY BARRIER)	LS	1	\$14,000.00	\$ 14,000.00	\$ 58,500.00	\$ 58,500.00	417.86%	\$44,500.00	\$ 10,000.00	\$ 10,000.00	71.43%	(\$4,000.00)	\$ 26,000.00	\$ 26,000.00	185.71%	\$12,000.00
13	24" CMP CULVERT (TEMPORARY STREAM BYPASS)	LF	76	\$50.00	\$ 3,800.00	\$ 126.59	\$ 9,620.84	253.18%	\$5,820.84	\$ 240.00	\$ 18,240.00	480.00%	\$14,440.00	\$ 200.00	\$ 15,200.00	400.00%	\$11,400.00
14	TEMPORARY RIPRAP PAD & HAY-BALE SEDIMENT BARRIER (W. STONE BERM)	LS	1	\$2,500.00	\$ 2,500.00	\$ 2,925.00	\$ 2,925.00	117.00%	\$425.00	\$ 1,500.00	\$ 1,500.00	60.00%	(\$1,000.00)	\$ 6,000.00	\$ 6,000.00	240.00%	\$3,500.00
15	CONCRETE WASHOUT SYSTEM	LS	1	\$500.00	\$ 500.00	\$ 936.00	\$ 936.00	187.20%	\$436.00	\$ 100.00	\$ 100.00	20.00%	(\$400.00)	\$ 1,500.00	\$ 1,500.00	300.00%	\$1,000.00
16	ACB REVETMENT (INCL. GEOGRID, SPREADER BAR)	SY	1,830	\$99.00	\$ 181,170.00	\$ 143.91	\$ 263,355.30	145.36%	\$82,185.30	\$ 110.00	\$ 201,300.00	111.11%	\$20,130.00	\$ 170.00	\$ 311,100.00	171.72%	\$129,930.00
17	1.5"-2" DIAMETER CLEAN STONE, 6" THK (INCL. GEOTEXTILE FABRIC)	SY	1,830	\$22.00	\$ 40,260.00	\$ 15.39	\$ 28,163.70	69.95%	(\$12,096.30)	\$ 22.00	\$ 40,260.00	100.00%		\$ 23.00	\$ 42,090.00	104.55%	\$1,830.00
18	RIPRAP STONE CHANNEL PROTECTION, 12" THK (D50=6")	SY	16	\$45.00	\$ 720.00	\$ 58.50	\$ 936.00	130.00%	\$216.00	\$ 72.00	\$ 1,152.00	160.00%	\$432.00	\$ 265.00	\$ 4,240.00	588.89%	\$3,520.00

CITY OF VINELAND
 BURNT MILL POND DAM REHABILITATION
 BID TABULATION

BID OPENING DATE JULY 28, 2015

CONTRACT INFORMATION				ENGINEER'S ESTIMATE		FRED M. SCHIAVONE CONST. INC.				SOUTH STATE INC.				MOUNT CONSTRUCTION CO., INC.			
ITEM NO.	DESCRIPTION	UNITS	CONTRACT QUANTITY	ENG. EST UNIT PRICE	ENG. EST. TOTAL	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)
19	COARSE AGG. NO. 57, 6" THICK (BELOW RIPRAP)	SY	16	\$20.00	\$ 320.00	\$ 52.65	\$ 842.40	263.25%	\$522.40	\$ 40.00	\$ 640.00	200.00%	\$320.00	\$ 77.00	\$ 1,232.00	385.00%	\$912.00
20	GEOTEXTILE FABRIC, 8 OZ, NON-WOVEN (BELOW RIPRAP)	SY	16	\$8.00	\$ 128.00	\$ 4.68	\$ 74.88	58.50%	(\$53.12)	\$ 1.00	\$ 16.00	12.50%	(\$112.00)	\$ 5.00	\$ 80.00	62.50%	(\$48.00)
21	GABION WALL, W/ PVC-COATED WIRE CAGE (INCL. COURSE AGG. AND GEOTEXTILE FABRIC)	CY	112	\$350.00	\$ 39,200.00	\$ 582.66	\$ 65,257.92	166.47%	\$26,057.92	\$ 470.00	\$ 52,640.00	134.29%	\$13,440.00	\$ 350.00	\$ 39,200.00	100.00%	
22	GABION MATTRESS CHANNEL PROTECTION, 9" THICK, (INCL. COARSE AGG. AND GEOTEXTILE FABRIC)	SY	168	\$100.00	\$ 16,800.00	\$ 184.86	\$ 31,056.48	184.86%	\$14,256.48	\$ 170.00	\$ 28,560.00	170.00%	\$11,760.00	\$ 330.00	\$ 55,440.00	330.00%	\$38,640.00
23	CONCRETE CURB/CUTOFF WALL (AT BROAD-CREST SPILLWAY)	LF	68	\$40.00	\$ 2,720.00	\$ 42.71	\$ 2,904.28	106.78%	\$184.28	\$ 220.00	\$ 14,960.00	550.00%	\$12,240.00	\$ 92.00	\$ 6,256.00	230.00%	\$3,536.00
24	4' HIGH SPLIT RAIL FENCE W/ WELDED-WIRE FABRIC	LF	70	\$20.00	\$ 1,400.00	\$ 25.74	\$ 1,801.80	128.70%	\$401.80	\$ 50.00	\$ 3,500.00	250.00%	\$2,100.00	\$ 26.00	\$ 1,820.00	130.00%	\$420.00
25	REINFORCED CONC. WEIR WALL (SPILLWAY)	CY	1	\$1,600.00	\$ 1,600.00	\$ 4,959.63	\$ 4,959.63	309.98%	\$3,359.63	\$ 14,500.00	\$ 14,500.00	906.25%	\$12,900.00	\$ 7,500.00	\$ 7,500.00	468.75%	\$5,900.00
26	REINFORCEMENT STEEL, EPOXY-COATED	LB	200	\$3.00	\$ 600.00	\$ 4.68	\$ 936.00	156.00%	\$336.00	\$ 3.00	\$ 600.00	100.00%		\$ 3.00	\$ 600.00	100.00%	
27	ALUMINUM STOP-LOG GATE SYSTEM	LS	1	\$10,500.00	\$ 10,500.00	\$ 14,040.00	\$ 14,040.00	133.71%	\$3,540.00	\$ 17,000.00	\$ 17,000.00	161.90%	\$6,500.00	\$ 30,000.00	\$ 30,000.00	285.71%	\$19,500.00
28	6" DIA. STEEL BOLLARDS, CONCRETE FILLED	UNIT	4	\$200.00	\$ 800.00	\$ 526.50	\$ 2,106.00	263.25%	\$1,306.00	\$ 450.00	\$ 1,800.00	225.00%	\$1,000.00	\$ 1,350.00	\$ 5,400.00	675.00%	\$4,600.00
29	6" DIA. REMOVABLE BOLLARDS	UNIT	2	\$300.00	\$ 600.00	\$ 1,170.00	\$ 2,340.00	390.00%	\$1,740.00	\$ 425.00	\$ 850.00	141.67%	\$250.00	\$ 2,500.00	\$ 5,000.00	833.33%	\$4,400.00
30	TOPSOILING, 4" THICK	SY	900	\$2.30	\$ 2,070.00	\$ 5.27	\$ 4,743.00	229.13%	\$2,673.00	\$ 3.00	\$ 2,700.00	130.43%	\$630.00	\$ 7.00	\$ 6,300.00	304.35%	\$4,230.00
31	FERTILIZING AND SEEDING, HYDROSEED PERMANENT MIX WITH MULCH	SY	1,070	\$2.60	\$ 2,782.00	\$ 1.58	\$ 1,690.60	60.77%	(\$1,091.40)	\$ 2.00	\$ 2,140.00	76.92%	(\$642.00)	\$ 1.00	\$ 1,070.00	38.46%	(\$1,712.00)
32	STRAW MULCHING	SY	826	\$1.00	\$ 826.00	\$ 0.82	\$ 677.32	82.00%	(\$148.68)	\$ 0.25	\$ 206.50	25.00%	(\$619.50)	\$ 1.00	\$ 826.00	100.00%	
33	TOPSOIL STABILIZATION, VMAX3 SC250 - PERMANENT TURF REINFORCEMENT MATTING	SY	205	\$8.00	\$ 1,640.00	\$ 8.19	\$ 1,678.95	102.38%	\$38.95	\$ 5.00	\$ 1,025.00	62.50%	(\$615.00)	\$ 4.00	\$ 820.00	50.00%	(\$820.00)
34	TOPSOIL STABILIZATION - LONG-TERM DOUBLE-NET BIO-DEGRADABLE EROSION CONTROL BLANKET	SY	10	\$15.00	\$ 150.00	\$ 1.52	\$ 15.20	10.13%	(\$134.80)	\$ 26.00	\$ 260.00	173.33%	\$110.00	\$ 24.00	\$ 240.00	160.00%	\$90.00
TOTAL ESTIMATED PROJECT COSTS				\$	489,108.50	\$	770,164.85			\$	785,360.65			\$	906,829.00		

Calculation Error

CITY OF VINELAND
BURNT MILL POND DAM REHABILITATION
BID TABULATION

BID OPENING DATE JULY 28, 2015

CONTRACT INFORMATION				ENGINEER	G. HELMER CONSTRUCTION CO., INC.				WALTERS MARINE CONSTRUCTION, INC.				JPC GROUP INC.			
ITEM NO.	DESCRIPTION	UNITS	CONTRACT QUANTITY	ENG. EST UNIT PRICE	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)	BID UNIT PRICE	BID TOTAL	% OF ENG. EST.	\$ DIFFERENCE (CONTRACTOR - ESTIMATE)
1	TRAFFIC CONTROL	LS	1	\$5,000.00	\$ 8,000.00	\$ 8,000.00	160.00%	\$3,000.00	\$ 5,000.00	\$ 5,000.00	100.00%		\$ 5,000.00	\$ 5,000.00	100.00%	
2	CLEARING SITE	LS	1	\$12,000.00	\$106,140.00	\$ 106,140.00	884.50%	\$94,140.00	\$ 50,000.00	\$ 50,000.00	416.67%	\$38,000.00	\$ 55,000.00	\$ 55,000.00	458.33%	\$43,000.00
3	STRIPPING	SY	2,950	\$1.50	\$ 10.00	\$ 29,500.00	666.67%	\$25,075.00	\$ 6.00	\$ 17,700.00	400.00%	\$13,275.00	\$ 5.00	\$ 14,750.00	333.33%	\$10,325.00
4	EXCAVATION, UNCLASSIFIED (OFF-SITE SPOIL)	CY	1,200	\$27.00	\$ 18.00	\$ 21,600.00	66.67%	(\$10,800.00)	\$ 32.00	\$ 38,400.00	118.52%	\$6,000.00	\$ 65.00	\$ 78,000.00	240.74%	\$45,600.00
5	EXCAVATION, UNCLASSIFIED (RE-USE ON-SITE)	CY	500	\$22.00	\$ 15.00	\$ 7,500.00	68.18%	(\$3,500.00)	\$ 17.00	\$ 8,500.00	77.27%	(\$2,500.00)	\$ 25.00	\$ 12,500.00	113.64%	\$1,500.00
6	BACKFILL, UNCLASSIFIED	CY	500	\$34.00	\$ 18.00	\$ 9,000.00	52.94%	(\$8,000.00)	\$ 23.00	\$ 11,500.00	67.65%	(\$5,500.00)	\$ 10.00	\$ 5,000.00	29.41%	(\$12,000.00)
7	IMPORTED STRUCTURAL FILL	CY	700	\$30.00	\$ 18.00	\$ 12,600.00	60.00%	(\$8,400.00)	\$ 55.00	\$ 38,500.00	183.33%	\$17,500.00	\$ 35.00	\$ 24,500.00	116.67%	\$3,500.00
8	CONSTRUCTION ENTRANCE/TIRE CLEANER	SY	115	\$24.50	\$ 60.00	\$ 6,900.00	244.90%	\$4,082.50	\$ 30.00	\$ 3,450.00	122.45%	\$632.50	\$ 20.00	\$ 2,300.00	81.63%	(\$517.50)
9	SILT FENCE	LF	1,200	\$4.00	\$ 3.50	\$ 4,200.00	87.50%	(\$600.00)	\$ 3.00	\$ 3,600.00	75.00%	(\$1,200.00)	\$ 7.00	\$ 8,400.00	175.00%	\$3,600.00
10	SNOW FENCE (TREE PROTECTION)	LF	730	\$6.00	\$ 3.00	\$ 2,190.00	50.00%	(\$2,190.00)	\$ 6.00	\$ 4,380.00	100.00%		\$ 9.00	\$ 6,570.00	150.00%	\$2,190.00
11	TEMPORARY COFFER DAM, 280 LF (PORTADAM)	LS	1	\$49,200.00	\$ 66,000.00	\$ 66,000.00	134.15%	\$16,800.00	\$200,000.00	\$ 200,000.00	406.50%	\$150,800.00	\$150,000.00	\$ 150,000.00	304.88%	\$100,800.00
12	DEWATERING (INCL. PUMP, HOSE, BASIN, SEDIMENT FILTRATION, TURBIDITY BARRIER)	LS	1	\$14,000.00	\$ 65,000.00	\$ 65,000.00	464.29%	\$51,000.00	\$ 25,000.00	\$ 25,000.00	178.57%	\$11,000.00	\$150,000.00	\$ 150,000.00	1071.43%	\$136,000.00
13	24" CMP CULVERT (TEMPORARY STREAM BYPASS)	LF	76	\$50.00	\$ 150.00	\$ 11,400.00	300.00%	\$7,600.00	\$ 300.00	\$ 22,800.00	600.00%	\$19,000.00	\$ 200.00	\$ 15,200.00	400.00%	\$11,400.00
14	TEMPORARY RIPRAP PAD & HAY-BALE SEDIMENT BARRIER (W. STONE BERM)	LS	1	\$2,500.00	\$ 10,000.00	\$ 10,000.00	400.00%	\$7,500.00	\$ 7,500.00	\$ 7,500.00	300.00%	\$5,000.00	\$ 2,500.00	\$ 2,500.00	100.00%	
15	CONCRETE WASHOUT SYSTEM	LS	1	\$500.00	\$ 5,000.00	\$ 5,000.00	1000.00%	\$4,500.00	\$ 3,000.00	\$ 3,000.00	600.00%	\$2,500.00	\$ 6,000.00	\$ 6,000.00	1200.00%	\$5,500.00
16	ACB REVETMENT (INCL. GEOGRID, SPREADER BAR)	SY	1,830	\$99.00	\$ 215.00	\$ 393,450.00	217.17%	\$212,280.00	\$ 150.00	\$ 274,500.00	151.52%	\$93,330.00	\$ 160.00	\$ 292,800.00	161.62%	\$111,630.00
17	1.5"-2" DIAMETER CLEAN STONE, 6" THK (INCL. GEOTEXTILE FABRIC)	SY	1,830	\$22.00	\$ 25.00	\$ 45,750.00	113.64%	\$5,490.00	\$ 30.00	\$ 54,900.00	136.36%	\$14,640.00	\$ 20.00	\$ 36,600.00	90.91%	(\$3,660.00)
18	RIPRAP STONE CHANNEL PROTECTION, 12" THK (D50=6")	SY	16	\$45.00	\$ 225.00	\$ 3,600.00	500.00%	\$2,880.00	\$ 200.00	\$ 3,200.00	444.44%	\$2,480.00	\$ 100.00	\$ 1,600.00	222.22%	\$880.00

CITY OF VINELAND
BURNT MILL POND DAM REHABILITATION
BID TABULATION

BID OPENING DATE JULY 28, 2015

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19	COARSE AGG. NO. 57, 6" THICK (BELOW RIPRAP)	SY	16	\$20.00	\$ 225.00	\$ 3,600.00	1125.00%	\$3,280.00	\$ 120.00	\$ 1,920.00	600.00%	\$1,600.00	\$ 50.00	\$ 800.00	250.00%	\$480.00
20	GEOTEXTILE FABRIC, 3 OZ, NON-WOVEN (BELOW RIPRAP)	SY	16	\$8.00	\$ 1.50	\$ 24.00	18.75%	(\$104.00)	\$ 5.00	\$ 80.00	62.50%	(\$48.00)	\$ 15.00	\$ 240.00	187.50%	\$112.00
21	GABION WALL, W/ PVC-COATED WIRE CAGE (INCL. COURSE AGG. AND GEOTEXTILE FABRIC)	CY	112	\$350.00	\$ 250.00	\$ 28,000.00	71.43%	(\$11,200.00)	\$ 475.00	\$ 53,200.00	135.71%	\$14,000.00	\$ 400.00	\$ 44,800.00	114.29%	\$5,600.00
22	GABION MATTRESS CHANNEL PROTECTION, 9" THICK, (INCL. COARSE AGG. AND GEOTEXTILE FABRIC)	SY	168	\$100.00	\$ 50.00	\$ 8,400.00	50.00%	(\$8,400.00)	\$ 175.00	\$ 29,400.00	175.00%	\$12,600.00	\$ 390.00	\$ 65,520.00	390.00%	\$48,720.00
23	CONCRETE CURB/CUTOFF WALL (AT BROAD-CREST SPILLWAY)	LF	68	\$40.00	\$ 200.00	\$ 13,600.00	500.00%	\$10,880.00	\$ 550.00	\$ 37,400.00	1375.00%	\$34,680.00	\$ 150.00	\$ 10,200.00	375.00%	\$7,480.00
24	4' HIGH SPLIT RAIL FENCE W/ WELDED-WIRE FABRIC	LF	70	\$20.00	\$ 25.00	\$ 1,750.00	125.00%	\$350.00	\$ 75.00	\$ 5,250.00	375.00%	\$3,850.00	\$ 30.00	\$ 2,100.00	150.00%	\$700.00
25	REINFORCED CONC. WEIR WALL (SPILLWAY)	CY	1	\$1,600.00	\$ 5,000.00	\$ 5,000.00	312.50%	\$3,400.00	\$ 25,000.00	\$ 25,000.00	1562.50%	\$23,400.00	\$ 5,000.00	\$ 5,000.00	312.50%	\$3,400.00
26	REINFORCEMENT STEEL, EPOXY-COATED	LB	200	\$3.00	\$ 50.00	\$ 10,000.00	1666.67%	\$9,400.00	\$ 5.00	\$ 1,000.00	166.67%	\$400.00	\$ 3.00	\$ 600.00	100.00%	
27	ALUMINUM STOP-LOG GATE SYSTEM	LS	1	\$10,500.00	\$ 68,000.00	\$ 68,000.00	647.62%	\$57,500.00	\$ 25,000.00	\$ 25,000.00	238.10%	\$14,500.00	\$ 20,000.00	\$ 20,000.00	190.48%	\$9,500.00
28	6" DIA. STEEL BOLLARDS, CONCRETE FILLED	UNIT	4	\$200.00	\$ 3.00	\$ 12.00	1.50%	(\$788.00)	\$ 1,200.00	\$ 4,800.00	600.00%	\$4,000.00	\$ 1,400.00	\$ 5,600.00	700.00%	\$4,800.00
29	6" DIA. REMOVABLE BOLLARDS	UNIT	2	\$300.00	\$ 500.00	\$ 1,000.00	166.67%	\$400.00	\$ 2,000.00	\$ 4,000.00	666.67%	\$3,400.00	\$ 1,450.00	\$ 2,900.00	483.33%	\$2,300.00
30	TOPSOILING, 4" THICK	SY	900	\$2.30	\$ 10.00	\$ 9,000.00	434.78%	\$6,930.00	\$ 12.00	\$ 10,800.00	521.74%	\$8,730.00	\$ 12.00	\$ 10,800.00	521.74%	\$8,730.00
31	FERTILIZING AND SEEDING, HYDROSEED PERMANENT MIX WITH MULCH	SY	1,070	\$2.60	\$ 8.00	\$ 8,560.00	307.69%	\$5,778.00	\$ 2.00	\$ 2,140.00	76.92%	(\$642.00)	\$ 3.00	\$ 3,210.00	115.38%	\$428.00
32	STRAW MULCHING	SY	826	\$1.00	\$ 3.00	\$ 2,478.00	300.00%	\$1,652.00	\$ 6.00	\$ 4,956.00	600.00%	\$4,130.00	\$ 4.00	\$ 3,304.00	400.00%	\$2,478.00
33	TOPSOIL STABILIZATION, VMAX3 SC250 - PERMANENT TURF REINFORCEMENT MATTING	SY	205	\$8.00	\$ 5.00	\$ 1,025.00	62.50%	(\$615.00)	\$ 6.00	\$ 1,230.00	75.00%	(\$410.00)	\$ 18.00	\$ 3,690.00	225.00%	\$2,050.00
34	TOPSOIL STABILIZATION - LONG-TERM DOUBLE-NET BIO-DEGRADABLE EROSION CONTROL BLANKET	SY	10	\$15.00	\$ 60.00	\$ 600.00	400.00%	\$450.00	\$ 15.00	\$ 150.00	100.00%		\$ 20.00	\$ 200.00	133.33%	\$50.00
TOTAL ESTIMATED PROJECT COSTS				\$	\$	\$	968,879.00		\$	\$	978,256.00		\$	\$	1,045,684.00	

Calculation Error