

DATE April 9, 2018

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON AGRIMERGENT STORM SEWER PHASE 2; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS S. M. HENTGES & SONS INC., STEVEN M. HENTGES, PRESIDENT, \$2,754,041.28

WHEREAS, on March 8, 2018, under Roll Call No. 18-0333, plans, specifications, form of contract documents, and Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

Agrimergent Storm Sewer Phase 2, 08-2017-008

The improvement includes installation of 54-inch storm sewer pipe from the Agrimergent Technology Park Regional Detention Basin north to Vandalia Road, associated storm sewer pipe installation, excavation, ditch grading, and roadway shouldering along the north and south side of Vandalia Road, surface restoration, and other incidental items; all in accordance with the contract documents, including Plan File Nos. 592-172/253, located on Agrimergent Technology Park permanent storm sewer easement and the north and south side of Vandalia Road from Carlisle Road to S.E. 43rd Street, Des Moines, Iowa

WHEREAS, notice of the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost was published as required by law.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the hearing on the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement.

BE IT FURTHER RESOLVED: That sealed bids for said improvement were submitted by the following bidders:

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Progressive Structures, LLC	Elkader, IA
S. M. Hentges & Sons Inc.	Jordan, MN
Elder Corporation	Des Moines, IA
Raccoon Valley Contractors, LLC.	Waukee, IA
Rognes Corp.	Ankeny, IA
J & K Contracting, LLC	Ames, IA
S. J. Louis Construction, Inc.	Rockville, MN

which were received and opened at a public meeting presided over by the Engineer in the City Offices, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on March 27, 2018. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Des Moines City Engineer, as the Engineer, has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by S. M. Hentges & Sons Inc., Steven M. Hentges, President, 650 Quaker Avenue, Suite 200, Jordan, MN, 55352 in the amount of \$2,754,041.28, and said bid be and the same is hereby accepted.

BE IT FURTHER RESOLVED: That the bid security of the unsuccessful bidders be and is hereby authorized and directed to be returned in accordance with the Instructions to Bidders.

BE IT FURTHER RESOLVED: That the Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Engineer is directed to thereafter present said contract documents to this Council for approval and authorization to the Mayor to sign; and that no contract shall be deemed to exist between the City of Des Moines and said Bidder until said contract has been executed by the Bidder, and shall have been approved by this Council and executed by the Mayor and attested to by the City Clerk.

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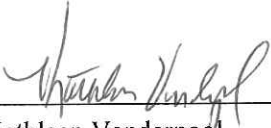
BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary road closures for the Project.

(City Council Communication Number 18-170 attached.)

Moved by _____ to adopt.

FORM APPROVED:

FUNDS AVAILABLE



 Kathleen Vanderpool
 Deputy City Attorney



 Robert L. Fagen
 Des Moines Finance Director

AC

Funding Source: 2018-2019 CIP, Page Street – 50, Agrimergent Storm Sewer Phase 2, ST268, G. O. Bonds, Being: \$566,739.46 in G.O. Bonds to be issued from ST268, \$725,000 in G.O. Bonds from ST256; \$1,422,301.82 in Storm Water Utility funds; and the remaining \$40,000 from Des Moines Water Works.

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
COLEMAN				
GATTO				
GRAY				
MANDELBAUM				
WESTERGAARD				
TOTAL				

MOTION CARRIED APPROVED

 Mayor

I, Diane Rauh, City Clerk of said City Council, hereby certify that at a meeting of the City Council, held on the above date, among other proceedings the above was adopted.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal the day and year first above written.

 City Clerk

TABULATED BY: C. Bouska
CHECKED BY: _____

APPROVED BY: R. De Groot

CONTRACTOR'S BID TABULATION
PROJECT: AGRIMERGENT STORM SEWER PHASE 2

ESTIMATE

S.M. Hentges & Sons, Inc.
Jordan, MN

BID SECURITY
10% Bid Bond

BID PRICE

Elder Corporation
Des Moines, IA

BID SECURITY
10% Bid Bond

BID PRICE

Raccoon Valley Contractors
Waukee, IA

BID SECURITY
10% Bid Bond

BID PRICE

Rognes Corp.
Ankeny, IA

BID SECURITY
10% Bid Bond

BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	EXCAVATION, CLASS 10, WASTE	142178 CY	\$4.00	\$568,712.00	\$4.76	\$676,767.28	\$5.00	\$710,890.00	\$3.85	\$547,385.30	\$3.50	\$497,623.00
2	TOPSOIL, ON-SITE	19300 CY	\$8.00	\$154,400.00	\$2.00	\$38,600.00	\$7.00	\$135,100.00	\$4.65	\$89,745.00	\$4.50	\$86,850.00
3	EARTH SHOULDER FINISHING	120 STA	\$350.00	\$42,000.00	\$508.00	\$60,960.00	\$242.00	\$29,040.00	\$390.00	\$46,800.00	\$210.00	\$25,200.00
4	GRANULAR SHOULDER, TYPE A	4325 TON	\$20.00	\$86,500.00	\$18.00	\$77,850.00	\$23.00	\$99,475.00	\$31.45	\$136,021.25	\$26.00	\$112,450.00
5	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	1010 TON	\$20.00	\$20,200.00	\$23.00	\$23,230.00	\$28.00	\$28,280.00	\$31.45	\$31,764.50	\$26.00	\$26,260.00
6	STORM SEWER, TRENCHED, 18 IN.	276 LF	\$65.00	\$17,940.00	\$45.00	\$12,420.00	\$62.00	\$17,112.00	\$85.00	\$23,460.00	\$60.00	\$16,560.00
7	STORM SEWER, TRENCHED, 24 IN.	407 LF	\$80.00	\$32,560.00	\$55.00	\$22,385.00	\$71.00	\$28,897.00	\$110.00	\$44,770.00	\$70.00	\$28,490.00
8	STORM SEWER, TRENCHED, 30 IN.	839 LF	\$105.00	\$88,095.00	\$80.00	\$67,120.00	\$82.00	\$68,798.00	\$123.00	\$103,197.00	\$90.00	\$75,510.00
9	STORM SEWER, TRENCHED, 48 IN.	486 LF	\$180.00	\$87,480.00	\$135.00	\$65,610.00	\$152.00	\$73,872.00	\$180.00	\$87,480.00	\$165.00	\$80,190.00
10	STORM SEWER, TRENCHED, 54 IN.	1338 LF	\$210.00	\$280,980.00	\$160.00	\$214,080.00	\$166.00	\$222,108.00	\$200.00	\$267,600.00	\$210.00	\$280,980.00
11	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 16 IN.	577 LF	\$135.00	\$77,895.00	\$115.00	\$66,355.00	\$93.00	\$53,661.00	\$280.00	\$161,560.00	\$90.00	\$51,930.00
12	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 24 IN.	59 LF	\$250.00	\$14,750.00	\$138.00	\$8,142.00	\$153.00	\$9,027.00	\$322.00	\$18,998.00	\$130.00	\$7,670.00
13	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 36 IN.	372 LF	\$320.00	\$119,040.00	\$230.00	\$85,560.00	\$227.00	\$84,444.00	\$328.00	\$122,016.00	\$235.00	\$87,420.00
14	STORM SEWER, TRENCHLESS, EPOXY COATED STEEL CASING	531 LF	\$450.00	\$238,950.00	\$310.00	\$164,610.00	\$400.00	\$212,400.00	\$490.00	\$260,190.00	\$385.00	\$204,435.00
15	STORM SEWER, TRENCHLESS, EPOXY COATED STEEL CASING	173 LF	\$550.00	\$95,150.00	\$422.00	\$73,006.00	\$510.00	\$88,230.00	\$500.00	\$86,500.00	\$525.00	\$90,825.00
16	PIPE APRON, CONCRETE, 15 IN. DIA.	2 EACH	\$2,000.00	\$4,000.00	\$2,000.00	\$4,000.00	\$2,200.00	\$4,400.00	\$2,500.00	\$5,000.00	\$2,450.00	\$4,900.00
17	PIPE APRON, CONCRETE, 54 IN. DIA.	1 EACH	\$7,000.00	\$7,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$3,500.00	\$3,500.00	\$8,000.00	\$8,000.00
18	WATER MAIN ALTERATION NO. 1	1 LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$16,000.00	\$16,000.00	\$12,000.00	\$12,000.00
19	WATER MAIN ALTERATION NO. 2	1 LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$8,500.00	\$8,500.00	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00
20	WATER MAIN ALTERATION NO. 3	1 LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$8,500.00	\$8,500.00	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00
21	WATER MAIN ALTERATION NO. 4	1 LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$8,500.00	\$8,500.00	\$10,000.00	\$10,000.00	\$9,500.00	\$9,500.00
22	MANHOLE, STORM SEWER, SW-401, 48 IN.	2 EACH	\$5,000.00	\$10,000.00	\$4,175.00	\$8,350.00	\$3,900.00	\$7,800.00	\$3,000.00	\$6,000.00	\$5,500.00	\$11,000.00
23	MANHOLE, STORM SEWER, SW-401, 60 IN.	1 EACH	\$5,500.00	\$5,500.00	\$5,730.00	\$5,730.00	\$5,600.00	\$5,600.00	\$4,000.00	\$4,000.00	\$8,400.00	\$8,400.00
24	MANHOLE, STORM SEWER, SW-401, 72 IN.	2 EACH	\$6,500.00	\$13,000.00	\$6,942.00	\$13,884.00	\$6,900.00	\$13,800.00	\$5,200.00	\$10,400.00	\$11,000.00	\$22,000.00
25	MANHOLE, STORM SEWER, SW-401, 84 IN.	2 EACH	\$8,500.00	\$17,000.00	\$9,661.00	\$19,322.00	\$11,000.00	\$22,000.00	\$12,000.00	\$24,000.00	\$13,000.00	\$26,000.00
26	MANHOLE, STORM SEWER, SW-404, 8'X8' DP	2 EACH	\$16,000.00	\$32,000.00	\$35,877.00	\$71,754.00	\$24,000.00	\$48,000.00	\$24,500.00	\$49,000.00	\$30,000.00	\$60,000.00
27	INTAKE, SW-505, CUSTOM	1 EACH	\$7,000.00	\$7,000.00	\$8,658.00	\$8,658.00	\$5,600.00	\$5,600.00	\$7,600.00	\$7,600.00	\$5,100.00	\$5,100.00
28	INTAKE, SW-511	24 EACH	\$5,000.00	\$120,000.00	\$7,932.00	\$190,368.00	\$3,500.00	\$84,000.00	\$5,500.00	\$132,000.00	\$3,700.00	\$88,800.00
29	HEADWALL, CONCRETE, TWIN 36 IN. DIP	1 LS	\$10,000.00	\$10,000.00	\$12,915.00	\$12,915.00	\$25,000.00	\$25,000.00	\$17,500.00	\$17,500.00	\$60,000.00	\$60,000.00
30	FULL DEPTH PATCHES, PCC	677 SY	\$140.00	\$94,780.00	\$125.00	\$84,625.00	\$149.00	\$100,873.00	\$142.00	\$96,134.00	\$135.00	\$91,395.00
31	TRAFFIC CONTROL	1 LS	\$75,000.00	\$75,000.00	\$16,320.00	\$16,320.00	\$17,000.00	\$17,000.00	\$50,000.00	\$50,000.00	\$16,000.00	\$16,000.00
32	REGULATORY SIGNS	1 LS	\$6,000.00	\$6,000.00	\$4,080.00	\$4,080.00	\$4,200.00	\$4,200.00	\$4,000.00	\$4,000.00	\$5,000.00	\$5,000.00
33	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND FERTILIZING PLANTS	24.4 ACRE	\$2,500.00	\$61,000.00	\$2,295.00	\$55,998.00	\$2,200.00	\$53,680.00	\$2,150.00	\$52,460.00	\$2,250.00	\$54,900.00
34	STORMWATER POLLUTION PREVENTION PLAN	1 LS	\$20,000.00	\$20,000.00	\$24,114.00	\$24,114.00	\$24,000.00	\$24,000.00	\$23,134.00	\$23,134.00	\$25,000.00	\$25,000.00
35	FILTER SOCK, 6 INCH	900 LF	\$2.50	\$2,250.00	\$2.05	\$1,845.00	\$2.00	\$1,800.00	\$1.75	\$1,575.00	\$2.00	\$1,800.00
36	FILTER SOCK, REMOVAL	900 LF	\$1.00	\$900.00	\$0.50	\$450.00	\$0.16	\$144.00	\$0.15	\$135.00	\$0.50	\$450.00
37	RIP RAP, TYPE E	775 TON	\$40.00	\$31,000.00	\$61.00	\$47,275.00	\$55.00	\$42,625.00	\$67.00	\$51,925.00	\$65.00	\$50,375.00
38	STABILIZED CONSTRUCTION ENTRANCE	167 SY	\$50.00	\$8,350.00	\$14.00	\$2,338.00	\$17.00	\$2,839.00	\$28.00	\$4,676.00	\$12.00	\$2,004.00
39	FENCE, REMOVE AND REINSTALL CHAIN LINK, 84 INCH	1722 LF	\$25.00	\$43,050.00	\$18.00	\$30,996.00	\$18.00	\$30,996.00	\$17.70	\$30,479.40	\$17.70	\$30,479.40
40	TEMPORARY FENCE, CHAIN LINK, 84 INCH	1278 LF	\$18.00	\$23,004.00	\$8.00	\$10,224.00	\$8.00	\$10,224.00	\$7.35	\$9,393.30	\$8.00	\$10,224.00
41	MOBILIZATION	1 LS	\$93,514.00	\$93,514.00	\$430,000.00	\$430,000.00	\$363,185.00	\$363,185.00	\$135,000.00	\$135,000.00	\$575,000.00	\$575,000.00
42	CONCRETE WASHOUT	1 LS	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$2,100.00	\$2,100.00	\$1,000.00	\$1,000.00	\$5,000.00	\$5,000.00
43	ANODE FIELD REPLACEMENT	3 EACH	\$15,000.00	\$45,000.00	\$500.00	\$1,500.00	\$13,000.00	\$39,000.00	\$10,000.00	\$30,000.00	\$18,500.00	\$55,500.00

TOTAL CONSTRUCTION COST
PERCENT OF ENGINEER'S ESTIMATE

\$2,700,000.00

\$2,754,041.28

+2.00%

Low

\$2,817,000.00

+4.33%

\$2,827,498.75

+4.72%

\$2,935,220.40

+8.71%

64

TABULATED BY: C. Bouska APPROVED BY: _____
CHECKED BY: _____

CONTRACTOR'S BID TABULATION
PROJECT: AGRIMERGENT STORM SEWER PHASE 2

ESTIMATE

ITEM	DESCRIPTION	QUANTITY	UNIT		J & K Contracting Ames, IA		Progressive Structures LLC Elkader, IA		S.J. Louis Construction, Inc. Rockville, MN	
			PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
1	EXCAVATION, CLASS 10, WASTE	142178 CY	\$4.00	\$568,712.00	\$4.00	\$568,712.00	\$5.00	\$710,890.00	\$8.00	\$1,137,424.00
2	TOPSOIL, ON-SITE	19300 CY	\$8.00	\$154,400.00	\$5.00	\$96,500.00	\$4.60	\$88,780.00	\$5.00	\$96,500.00
3	EARTH SHOULDER FINISHING	120 STA	\$350.00	\$42,000.00	\$260.00	\$31,200.00	\$290.00	\$34,800.00	\$100.00	\$12,000.00
4	GRANULAR SHOULDER, TYPE A	4325 TON	\$20.00	\$86,500.00	\$31.00	\$134,075.00	\$33.30	\$144,022.50	\$25.00	\$108,125.00
5	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	1010 TON	\$20.00	\$20,200.00	\$31.00	\$31,310.00	\$33.30	\$33,633.00	\$30.00	\$30,300.00
6	STORM SEWER, TRENCHED, 18 IN.	276 LF	\$65.00	\$17,940.00	\$105.00	\$28,980.00	\$102.00	\$28,152.00	\$95.00	\$26,220.00
7	STORM SEWER, TRENCHED, 24 IN.	407 LF	\$80.00	\$32,560.00	\$115.00	\$46,805.00	\$115.00	\$46,805.00	\$100.00	\$40,700.00
8	STORM SEWER, TRENCHED, 30 IN.	839 LF	\$105.00	\$88,095.00	\$135.00	\$113,265.00	\$128.00	\$107,392.00	\$115.00	\$96,485.00
9	STORM SEWER, TRENCHED, 48 IN.	486 LF	\$180.00	\$87,480.00	\$200.00	\$97,200.00	\$200.00	\$97,200.00	\$185.00	\$80,190.00
10	STORM SEWER, TRENCHED, 54 IN.	1338 LF	\$210.00	\$280,980.00	\$412.00	\$551,256.00	\$225.00	\$301,050.00	\$190.00	\$254,220.00
11	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 16 IN.	577 LF	\$135.00	\$77,895.00	\$137.00	\$79,049.00	\$145.00	\$83,665.00	\$200.00	\$115,400.00
12	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 24 IN.	59 LF	\$250.00	\$14,750.00	\$180.00	\$10,620.00	\$180.00	\$10,620.00	\$220.00	\$12,980.00
13	STORM SEWER, TRENCHED, DUCTILE IRON PIPE (DIP), 36 IN.	372 LF	\$320.00	\$119,040.00	\$300.00	\$111,600.00	\$310.00	\$115,320.00	\$270.00	\$100,440.00
14	STORM SEWER, TRENCHLESS, EPOXY COATED STEEL CASING	531 LF	\$450.00	\$238,950.00	\$486.00	\$258,066.00	\$350.00	\$185,850.00	\$500.00	\$265,500.00
15	STORM SEWER, TRENCHLESS, EPOXY COATED STEEL CASING	173 LF	\$550.00	\$95,150.00	\$480.00	\$83,040.00	\$440.00	\$76,120.00	\$650.00	\$112,450.00
16	PIPE APRON, CONCRETE, 15 IN. DIA.	2 EACH	\$2,000.00	\$4,000.00	\$2,200.00	\$4,400.00	\$1,750.00	\$3,500.00	\$650.00	\$1,300.00
17	PIPE APRON, CONCRETE, 54 IN. DIA.	1 EACH	\$7,000.00	\$7,000.00	\$12,000.00	\$12,000.00	\$5,200.00	\$5,200.00	\$2,000.00	\$2,000.00
18	WATER MAIN ALTERATION NO. 1	1 LS	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$15,000.00	\$15,000.00	\$11,000.00	\$11,000.00
19	WATER MAIN ALTERATION NO. 2	1 LS	\$10,000.00	\$10,000.00	\$7,600.00	\$7,600.00	\$13,000.00	\$13,000.00	\$9,000.00	\$9,000.00
20	WATER MAIN ALTERATION NO. 3	1 LS	\$10,000.00	\$10,000.00	\$7,600.00	\$7,600.00	\$13,000.00	\$13,000.00	\$9,000.00	\$9,000.00
21	WATER MAIN ALTERATION NO. 4	1 LS	\$10,000.00	\$10,000.00	\$7,600.00	\$7,600.00	\$16,500.00	\$16,500.00	\$9,000.00	\$9,000.00
22	MANHOLE, STORM SEWER, SW-401, 48 IN.	2 EACH	\$5,000.00	\$10,000.00	\$4,000.00	\$8,000.00	\$4,000.00	\$8,000.00	\$4,000.00	\$8,000.00
23	MANHOLE, STORM SEWER, SW-401, 60 IN.	1 EACH	\$5,500.00	\$5,500.00	\$6,100.00	\$6,100.00	\$8,300.00	\$8,300.00	\$5,250.00	\$5,250.00
24	MANHOLE, STORM SEWER, SW-401, 72 IN.	2 EACH	\$6,500.00	\$13,000.00	\$8,300.00	\$16,600.00	\$9,500.00	\$19,000.00	\$6,600.00	\$13,200.00
25	MANHOLE, STORM SEWER, SW-401, 84 IN.	2 EACH	\$8,500.00	\$17,000.00	\$12,000.00	\$24,000.00	\$13,500.00	\$27,000.00	\$11,000.00	\$22,000.00
26	MANHOLE, STORM SEWER, SW-404, 8'X8' DP	2 EACH	\$16,000.00	\$32,000.00	\$25,000.00	\$50,000.00	\$17,000.00	\$34,000.00	\$25,000.00	\$50,000.00
27	INTAKE, SW-505, CUSTOM	1 EACH	\$7,000.00	\$7,000.00	\$8,000.00	\$8,000.00	\$8,600.00	\$8,600.00	\$8,000.00	\$8,000.00
28	INTAKE, SW-511	24 EACH	\$5,000.00	\$120,000.00	\$3,500.00	\$84,000.00	\$7,500.00	\$180,000.00	\$4,500.00	\$108,000.00
29	HEADWALL, CONCRETE, TWIN 36 IN. DIP	1 LS	\$10,000.00	\$10,000.00	\$21,000.00	\$21,000.00	\$10,000.00	\$10,000.00	\$22,500.00	\$22,500.00
30	FULL DEPTH PATCHES, PCC	677 SY	\$140.00	\$94,780.00	\$160.00	\$108,320.00	\$110.00	\$74,470.00	\$150.00	\$101,550.00
31	TRAFFIC CONTROL	1 LS	\$75,000.00	\$75,000.00	\$12,500.00	\$12,500.00	\$23,500.00	\$23,500.00	\$25,000.00	\$25,000.00
32	REGULATORY SIGNS	1 LS	\$6,000.00	\$6,000.00	\$4,400.00	\$4,400.00	\$4,000.00	\$4,000.00	\$4,500.00	\$4,500.00
33	HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND FERTILIZING PLANTS	24.4 ACRE	\$2,500.00	\$61,000.00	\$3,500.00	\$85,400.00	\$2,500.00	\$61,000.00	\$2,750.00	\$67,100.00
34	STORMWATER POLLUTION PREVENTION PLAN	1 LS	\$20,000.00	\$20,000.00	\$31,000.00	\$31,000.00	\$23,134.00	\$23,134.00	\$25,000.00	\$25,000.00
35	FILTER SOCK, 6 INCH	900 LF	\$2.50	\$2,250.00	\$3.00	\$2,700.00	\$1.75	\$1,575.00	\$2.00	\$1,800.00
37	FILTER SOCK, REMOVAL	900 LF	\$1.00	\$900.00	\$0.50	\$450.00	\$0.15	\$135.00	\$0.20	\$180.00
38	RIP RAP, TYPE E	775 TON	\$40.00	\$31,000.00	\$75.00	\$58,125.00	\$58.00	\$44,950.00	\$55.00	\$42,625.00
39	STABILIZED CONSTRUCTION ENTRANCE	167 SY	\$50.00	\$8,350.00	\$12.00	\$2,004.00	\$35.50	\$5,928.50	\$30.00	\$5,010.00
40	FENCE, REMOVE AND REINSTALL CHAIN LINK, 84 INCH	1722 LF	\$25.00	\$43,050.00	\$26.00	\$44,772.00	\$17.70	\$30,479.40	\$20.00	\$34,440.00
41	TEMPORARY FENCE, CHAIN LINK, 84 INCH	1278 LF	\$18.00	\$23,004.00	\$19.00	\$24,282.00	\$7.35	\$9,393.30	\$8.50	\$10,863.00
42	MOBILIZATION	1 LS	\$93,514.00	\$93,514.00	\$91,611.99	\$91,611.99	\$440,000.00	\$440,000.00	\$251,593.00	\$251,593.00
43	CONCRETE WASHOUT	1 LS	\$1,500.00	\$1,500.00	\$1,850.00	\$1,850.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00
44	ANODE FIELD REPLACEMENT	3 EACH	\$15,000.00	\$45,000.00	\$4,000.00	\$12,000.00	\$18,000.00	\$54,000.00	\$5,000.00	\$15,000.00
TOTAL CONSTRUCTION COST				\$2,700,000.00		\$2,992,992.99		\$3,205,564.70		\$3,360,345.00
PERCENT OF ENGINEER'S ESTIMATE						+10.85%		+18.72%		+24.46%

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