

DATE October 25, 2010

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON DEAN'S LAKE STORM SEWER CROSSING IMPROVEMENTS; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS REILLY CONSTRUCTION CO., INC., CHRIS R. REILLY, PRESIDENT, \$1,397,952.00

WHEREAS, on September 13, 2010, under Roll Call No. 10-1435, plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost were filed with the City Clerk, for the construction of the following improvement:

Dean's Lake Storm Sewer Crossing Improvements, 08-2009-005

The improvement includes construction of two 8' x 4' box culverts under existing streets, pavement removal and replacement, 54" and 60" storm sewer bored casing pipe under existing railroad tracks, replacement of existing pavement, sidewalks, intakes, storm sewer, and water mains in accordance with the contract documents, including Plan File Nos. 524-138/176 at the following locations: Norfolk Southern & BNSF Dean's Lake Crossing South of Maury Avenue, Maury Street Dean's Lake Crossing, Market Street Dean's Lake Crossing, Union Pacific Dean's Lake Crossing in the SE 1/4 of Section 2, Township 78 N, Range 24 W, 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 Jurisdictional Engineer's estimate of construction cost for said improvement be closed; and that said plans, specifications, form of contract documents, and Jurisdictional Engineer's estimate of construction cost are hereby approved as the plans, specifications, form of contract documents, and Jurisdictional 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:

- | | |
|-------------------------------|-----------------|
| Reilly Construction Co., Inc. | Ossian, IA |
| H & W Contracting LLC | Sioux Falls, SD |
| Van Hauen & Associates, Inc. | Grimes, IA |
| Jenco Construction Inc. | Des Moines, IA |
| Geislinger & Sons Inc. | Watkins, MN |

★ **Roll Call Number**

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which were received and opened at a public meeting presided over by the Jurisdictional Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on October 12, 2010. Said bids and the attached tabulation of bids for said improvement be and are hereby received and filed.

BE IT FURTHER RESOLVED: That the Jurisdictional Engineer has determined that the lowest responsive, responsible bid for the construction of said improvement was submitted by Reilly Construction Co., Inc., Chris R. Reilly, President, 110 E. Main Street, PO Box 99, Ossian, IA, 52161 in the amount of \$1,397,952.00, 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.

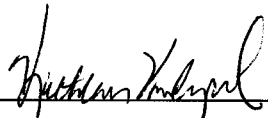
BE IT FURTHER RESOLVED: That the Jurisdictional Engineer is hereby directed to secure execution by the lowest responsible, responsive Bidder and its surety of the contract documents in the form heretofore approved by this Council; that the Jurisdictional Engineer is directed to thereafter present said 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.

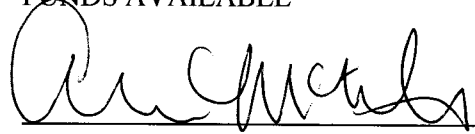
(City Council Communication Number _____ attached.)

Moved by _____ to adopt.

FORM APPROVED:


FUNDS AVAILABLE





Kathleen Vanderpool
Deputy City Attorney

Allen McKinley
Des Moines Finance Director

 Funding Source: 2010-2011 CIP, Page Storm-8, Dean's Lake Pump Station/Conveyance Improvements, STE080, Storm Water Utility Funds, Being:
\$1,389,202 in Storm Water Utility Bonds Issued and \$8,750 from the Des Moines Water Works for 8" water main construction (Bid Item No 37 and 220 lbs of fittings under Bid Item No.39)

★ **Roll Call Number**

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COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
COLEMAN				
GRIESS				
HENSLEY				
MAHAFFEY				
MEYER				
MOORE				
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: B. Rydberg APPROVED BY: *R. DeGroot*

CONTRACTOR'S BID TABULATION

PROJECT: Dean's Lake Storm Sewer Crossing Improvements

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT		REILLY CONSTRUCTION CO. INC. OSSIAN, IA		H & W CONTRACTING LLC SIOUX FALLS, SD		VAN HAUEN & ASSOC., INC. GRIMES, IA	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
1	Traffic Control	1 LS	\$59,539.70	\$59,539.70	\$10,750.00	\$10,750.00	\$7,100.00	\$7,100.00	\$7,000.00	\$7,000.00
2	Temporary Barrier Rail (Precast Concrete)	837.5 LF	\$20.00	\$16,750.00	\$15.00	\$12,562.50	\$25.00	\$20,937.50	\$20.00	\$16,750.00
3	Temporary Traffic Signals	1 LS	\$20,000.00	\$20,000.00	\$6,000.00	\$6,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
4	Temporary Pavement	1802 SY	\$50.00	\$90,100.00	\$40.00	\$72,080.00	\$40.00	\$72,080.00	\$70.00	\$126,140.00
5	Temporary Pavement Markings	24.5 STA	\$200.00	\$4,900.00	\$102.50	\$2,511.25	\$22.00	\$539.00	\$22.00	\$539.00
6	Railroad Protective Insurance - Union Pacific Railroad	1 LS	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$4,000.00	\$4,000.00	\$6,000.00	\$6,000.00
7	Railroad Protective Insurance - Burlington Northern Santa Fe Railroad	1 LS	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
8	Railroad Protective Insurance - Norfolk Southern Railroad	1 LS	\$3,000.00	\$3,000.00	\$2,500.00	\$2,500.00	\$3,000.00	\$3,000.00	\$3,000.00	\$3,000.00
9	Railroad Flaggers - Union Pacific Railroad	20 DAY	\$600.00	\$12,000.00	\$1,250.00	\$25,000.00	\$1,000.00	\$20,000.00	\$800.00	\$16,000.00
10	Railroad Flaggers - Burlington Northern Santa Fe Railroad	25 DAY	\$600.00	\$15,000.00	\$1,250.00	\$31,250.00	\$1,000.00	\$25,000.00	\$800.00	\$20,000.00
11	Railroad Flaggers - Norfolk Southern Railroad	25 DAY	\$600.00	\$15,000.00	\$1,250.00	\$31,250.00	\$1,000.00	\$25,000.00	\$800.00	\$20,000.00
12	Mobilization	1 LS	\$89,000.00	\$89,000.00	\$90,000.00	\$90,000.00	\$275,000.00	\$275,000.00	\$184,180.00	\$184,180.00
13	Construction Staking	1 LS	\$28,000.00	\$28,000.00	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$6,000.00	\$6,000.00
14	Project Sign, Small	1 EA.	\$1,000.00	\$1,000.00	\$100.00	\$100.00	\$150.00	\$150.00	\$600.00	\$600.00
15	Clearing And Grubbing	1 LS	\$40,000.00	\$40,000.00	\$32,500.00	\$32,500.00	\$25,000.00	\$25,000.00	\$45,000.00	\$45,000.00
16	Topsoil Furnish	400 CY	\$20.00	\$8,000.00	\$30.00	\$12,000.00	\$25.00	\$10,000.00	\$20.00	\$8,000.00
17	Class 13 Excavation	3750 CY	\$10.00	\$37,500.00	\$12.50	\$46,875.00	\$13.50	\$50,625.00	\$40.00	\$150,000.00
18	Structure Removal	1 EA	\$1,000.00	\$1,000.00	\$750.00	\$750.00	\$500.00	\$500.00	\$700.00	\$700.00
19	Pavement Removal/Disposition	3080 SY	\$15.00	\$46,200.00	\$10.00	\$30,800.00	\$12.00	\$36,960.00	\$15.00	\$46,200.00
20	Sidewalk/Driveway Removal/Disposition	44 SY	\$10.00	\$440.00	\$10.00	\$440.00	\$10.00	\$440.00	\$10.00	\$440.00
21	Modified Subbase (6" Thickness)	23 SY	\$7.00	\$161.00	\$22.00	\$506.00	\$10.00	\$230.00	\$15.00	\$345.00
22	Modified Subbase (12" Thickness)	1740 SY	\$8.00	\$13,920.00	\$13.50	\$23,490.00	\$13.50	\$23,490.00	\$22.00	\$38,280.00
23	Pipe Removal, 24" CMP	139 LF	\$10.00	\$1,390.00	\$16.00	\$2,224.00	\$25.00	\$3,475.00	\$20.00	\$2,780.00
24	Pipe Removal, 24" RCP	184 LF	\$20.00	\$3,680.00	\$17.50	\$3,220.00	\$25.00	\$4,600.00	\$25.00	\$4,600.00
25	Pipe Removal, 36" RCP	96 LF	\$30.00	\$2,880.00	\$20.00	\$1,920.00	\$30.00	\$2,880.00	\$30.00	\$2,880.00
26	Select Clay Backfill	800 CY	\$15.00	\$12,000.00	\$15.00	\$12,000.00	\$23.00	\$18,400.00	\$25.00	\$20,000.00
27	Over-Excavation And Trench Stabilization	200 CY	\$20.00	\$4,000.00	\$15.00	\$3,000.00	\$13.50	\$2,700.00	\$10.00	\$2,000.00
28	Trench Bottom Stabilization Material	370 TON	\$35.00	\$12,950.00	\$30.00	\$11,100.00	\$26.00	\$9,620.00	\$20.00	\$7,400.00
29	Granular Bedding	155 TON	\$40.00	\$6,200.00	\$30.00	\$4,650.00	\$23.00	\$3,565.00	\$20.00	\$3,100.00
30	Sheet Pile (Temporary)	1 LS	\$60,000.00	\$60,000.00	\$65,000.00	\$65,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00
31	Jacking Casing Pipe, 54" Steel Pipe	372 LF	\$1,800.00	\$669,600.00	\$700.00	\$260,400.00	\$550.00	\$204,600.00	\$650.00	\$241,800.00
32	Jacking Casing Pipe, 60" Steel Pipe	90 LF	\$2,000.00	\$180,000.00	\$900.00	\$81,000.00	\$600.00	\$54,000.00	\$850.00	\$76,500.00
33	Sewer, Storm, 24" Rcp Class IV	125 LF	\$60.00	\$7,500.00	\$65.00	\$8,125.00	\$100.00	\$12,500.00	\$200.00	\$25,000.00
34	Pipe Apron, 24" Fes With Apron Guard	1 EA	\$1,500.00	\$1,500.00	\$1,600.00	\$1,600.00	\$1,500.00	\$1,500.00	\$2,000.00	\$2,000.00
35	Precast Concrete Box Culvert, 8'X4'	144 LF	\$800.00	\$115,200.00	\$550.00	\$79,200.00	\$625.00	\$90,000.00	\$1,100.00	\$158,400.00
36	Precast Concrete Box Culvert End Section, 8'X4'	2 EA	\$6,600.00	\$13,200.00	\$5,500.00	\$11,000.00	\$12,000.00	\$24,000.00	\$8,000.00	\$16,000.00
37	Water Main, 16" PVC C900	90 LF	\$65.00	\$5,850.00	\$85.00	\$7,650.00	\$100.00	\$9,000.00	\$150.00	\$13,500.00
38	Water Main, 16" DJP W/ Restrained Joints And Nitrile Gaskets	376 LF	\$125.00	\$47,000.00	\$135.00	\$50,760.00	\$130.00	\$48,880.00	\$150.00	\$56,400.00
39	Fittings, Water Main	1630 LBS	\$3.50	\$5,705.00	\$5.00	\$8,150.00	\$7.50	\$12,225.00	\$5.00	\$8,150.00
40	Gate Valve, 16"	1 EA	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
41	Structural Concrete	48.9 CY	\$600.00	\$29,340.00	\$1,000.00	\$48,900.00	\$1,985.00	\$97,065.00	\$2,300.00	\$112,470.00

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ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
42	Reinforcing Steel	6230 LBS	\$0.85	\$5,295.50	\$1.10	\$6,853.00	\$2.25	\$14,017.50	\$2.00	\$12,460.00
43	Inlet Headwall Structure	1 EA	\$30,000.00	\$30,000.00	\$56,000.00	\$56,000.00	\$35,000.00	\$35,000.00	\$36,895.00	\$36,895.00
44	Trash Racks	3 EA	\$7,500.00	\$22,500.00	\$8,625.00	\$25,875.00	\$9,000.00	\$27,000.00	\$6,500.00	\$19,500.00
45	Manhole, Storm, 60" Dia Type M-A	1 EA	\$3,500.00	\$3,500.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,200.00	\$4,200.00
46	Intake, Double, M-D	1 EA	\$4,000.00	\$4,000.00	\$4,500.00	\$4,500.00	\$3,800.00	\$3,800.00	\$6,000.00	\$6,000.00
47	Intake, Double, M-E	1 EA	\$5,000.00	\$5,000.00	\$7,000.00	\$7,000.00	\$4,800.00	\$4,800.00	\$8,000.00	\$8,000.00
48	Intake, Single, M-G	1 EA	\$3,000.00	\$3,000.00	\$4,500.00	\$4,500.00	\$4,800.00	\$4,800.00	\$8,000.00	\$8,000.00
49	PCC Pavement, 10" Class C	1035 SY	\$50.00	\$51,750.00	\$53.15	\$55,010.25	\$70.00	\$72,450.00	\$65.00	\$67,275.00
50	PCC Pavement, 10" Class C Single Reinforced	395 SY	\$100.00	\$39,500.00	\$65.00	\$25,675.00	\$85.00	\$33,575.00	\$70.00	\$27,650.00
51	PCC Pavement, 6" Class C Reinforced	69 SY	\$50.00	\$3,450.00	\$45.00	\$3,105.00	\$50.00	\$3,450.00	\$50.00	\$3,450.00
52	Curb And Gutter, 30", Class C PCC	365 LF	\$30.00	\$10,950.00	\$28.00	\$9,940.00	\$40.00	\$14,200.00	\$40.00	\$14,200.00
53	Granular Surfacing Material	1000 TON	\$35.00	\$35,000.00	\$20.00	\$20,000.00	\$24.00	\$24,000.00	\$20.00	\$20,000.00
54	Granular Shoulder, Class D	30 TON	\$40.00	\$1,200.00	\$25.00	\$750.00	\$25.00	\$750.00	\$40.00	\$1,200.00
55	Sidewalk, 4" Class C	38 SY	\$35.00	\$1,330.00	\$40.00	\$1,520.00	\$30.00	\$1,140.00	\$50.00	\$1,900.00
56	PCC Flume, 6" Class C Reinforced	23 SY	\$50.00	\$1,150.00	\$50.00	\$1,150.00	\$50.00	\$1,150.00	\$80.00	\$1,840.00
57	Seeding, Type 1, Lawn Mixture	1.5 ACRE	\$1,500.00	\$2,250.00	\$2,500.00	\$3,750.00	\$2,180.00	\$3,270.00	\$2,500.00	\$3,750.00
58	Seeding, Type 2, Erosion Control Mix	1.5 ACRE	\$800.00	\$1,200.00	\$1,500.00	\$2,250.00	\$890.00	\$1,335.00	\$1,500.00	\$2,250.00
59	Silt Fence	3000 LF	\$3.50	\$10,500.00	\$1.75	\$5,250.00	\$1.75	\$5,250.00	\$1.80	\$5,400.00
60	Erosion Control	1 LS	\$10,000.00	\$10,000.00	\$4,000.00	\$4,000.00	\$5,500.00	\$5,500.00	\$5,000.00	\$5,000.00
61	Revetment Stone, Class D	325 TON	\$35.00	\$11,375.00	\$50.00	\$16,250.00	\$38.00	\$12,350.00	\$60.00	\$19,500.00
62	Fence, Chain Link, 4'	100 LF	\$20.00	\$2,000.00	\$75.00	\$7,500.00	\$75.00	\$7,500.00	\$75.00	\$7,500.00
63	Gate, Chain Link	2 EA	\$500.00	\$1,000.00	\$600.00	\$1,200.00	\$575.00	\$1,150.00	\$600.00	\$1,200.00
64	Concrete Steps	118 SF	\$35.00	\$4,130.00	\$45.00	\$5,310.00	\$40.00	\$4,720.00	\$60.00	\$7,080.00
65	Handrail	55 LF	\$50.00	\$2,750.00	\$60.00	\$3,300.00	\$65.00	\$3,575.00	\$60.00	\$3,300.00
66	Flowable Mortar	100 CY	\$110.00	\$11,000.00	\$150.00	\$15,000.00	\$180.00	\$18,000.00	\$140.00	\$14,000.00
TOTAL CONSTRUCTION COST				\$1,953,736.20	\$1,397,952.00	\$1,543,345.50	\$1,779,704.00	\$1,779,704.00		
PERCENT OF ENGINEER'S ESTIMATE					-28.4%	-21.0%	-8.9%			
					LOW					

CONTRACTOR'S BID TABULATION

PROJECT: Dean's Lake Storm Sewer Crossing Improvements

-----ESTIMATE-----

ITEM	DESCRIPTION	QUANTITY	UNIT PRICE		AMOUNT		Jenco Construction Inc. Des Moines, IA		Geislinger & Sons, Inc. Watkins, MN	
			PRICE	AMOUNT	PRICE	AMOUNT	BID SECURITY 10% Bid Bond BID PRICE	BID SECURITY 10% Bid Bond BID PRICE	UNIT PRICE	AMOUNT
1	Traffic Control	1 LS	\$59,539.70	\$59,539.70	\$20,355.00	\$20,355.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00
2	Temporary Barrier Rail (Precast Concrete)	837.5 LF	\$20.00	\$16,750.00	\$17.54	\$14,689.75	\$16.00	\$13,400.00	\$16.00	\$13,400.00
3	Temporary Traffic Signals	1 LS	\$20,000.00	\$20,000.00	\$8,625.00	\$8,625.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
4	Temporary Pavement	1802 SY	\$50.00	\$90,100.00	\$45.93	\$82,765.86	\$50.00	\$90,100.00	\$50.00	\$90,100.00
5	Temporary Pavement Markings	24.5 STA	\$200.00	\$4,900.00	\$161.00	\$3,944.50	\$103.00	\$2,523.50	\$103.00	\$2,523.50
6	Railroad Protective Insurance - Union Pacific Railroad	1 LS	\$3,000.00	\$3,000.00	\$6,000.00	\$6,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
7	Railroad Protective Insurance - Burlington Northern Santa Fe Railroad	1 LS	\$3,000.00	\$3,000.00	\$6,000.00	\$6,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
8	Railroad Protective Insurance - Norfolk Southern Railroad	1 LS	\$3,000.00	\$3,000.00	\$6,000.00	\$6,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00
9	Railroad Flaggers - Union Pacific Railroad	20 DAY	\$600.00	\$12,000.00	\$700.00	\$14,000.00	\$700.00	\$14,000.00	\$700.00	\$14,000.00
10	Railroad Flaggers - Burlington Northern Santa Fe Railroad	25 DAY	\$600.00	\$15,000.00	\$700.00	\$17,500.00	\$700.00	\$17,500.00	\$700.00	\$17,500.00
11	Railroad Flaggers - Norfolk Southern Railroad	25 DAY	\$600.00	\$15,000.00	\$700.00	\$17,500.00	\$700.00	\$17,500.00	\$700.00	\$17,500.00
12	Mobilization	1 LS	\$89,000.00	\$89,000.00	\$200,000.00	\$200,000.00	\$95,000.00	\$95,000.00	\$95,000.00	\$95,000.00
13	Construction Staking	1 LS	\$28,000.00	\$28,000.00	\$7,666.00	\$7,666.00	\$12,000.00	\$12,000.00	\$12,000.00	\$12,000.00
14	Project Sign, Small	1 EA	\$1,000.00	\$1,000.00	\$290.00	\$290.00	\$500.00	\$500.00	\$500.00	\$500.00
15	Clearing And Grubbing	1 LS	\$40,000.00	\$40,000.00	\$37,500.00	\$37,500.00	\$75,000.00	\$75,000.00	\$75,000.00	\$75,000.00
16	Topsail Furnish	400 CY	\$20.00	\$8,000.00	\$22.00	\$8,800.00	\$20.00	\$8,000.00	\$20.00	\$8,000.00
17	Class 13 Excavation	3750 CY	\$10.00	\$37,500.00	\$11.00	\$41,250.00	\$10.00	\$37,500.00	\$10.00	\$37,500.00
18	Structure Removal	1 EA	\$1,000.00	\$1,000.00	\$2,000.00	\$2,000.00	\$500.00	\$500.00	\$500.00	\$500.00
19	Pavement Removal/Disposition	3080 SY	\$15.00	\$46,200.00	\$16.50	\$50,820.00	\$6.00	\$18,480.00	\$6.00	\$18,480.00
20	Sidewalk/Driveway Removal/Disposition	44 SY	\$10.00	\$440.00	\$11.00	\$484.00	\$10.00	\$440.00	\$10.00	\$440.00
21	Modified Subbase (6" Thickness)	23 SY	\$7.00	\$161.00	\$9.00	\$207.00	\$10.00	\$230.00	\$10.00	\$230.00
22	Modified Subbase (12" Thickness)	1740 SY	\$8.00	\$13,920.00	\$10.00	\$17,400.00	\$10.00	\$17,400.00	\$10.00	\$17,400.00
23	Pipe Removal, 24" CMP	139 LF	\$10.00	\$1,390.00	\$11.00	\$1,529.00	\$5.00	\$695.00	\$5.00	\$695.00
24	Pipe Removal, 24" RCP	184 LF	\$20.00	\$3,680.00	\$22.00	\$4,048.00	\$8.00	\$1,472.00	\$8.00	\$1,472.00
25	Pipe Removal, 36" RCP	96 LF	\$30.00	\$2,880.00	\$33.00	\$3,168.00	\$10.00	\$960.00	\$10.00	\$960.00
26	Select Clay Backfill	800 CY	\$15.00	\$12,000.00	\$17.00	\$13,600.00	\$20.00	\$16,000.00	\$20.00	\$16,000.00
27	Over-Excavation And Trench Stabilization	200 CY	\$20.00	\$4,000.00	\$20.00	\$4,000.00	\$40.00	\$8,000.00	\$40.00	\$8,000.00
28	Trench Bottom Stabilization Material	370 TON	\$35.00	\$12,950.00	\$35.00	\$12,950.00	\$22.00	\$8,140.00	\$22.00	\$8,140.00
29	Granular Bedding	155 TON	\$40.00	\$6,200.00	\$40.00	\$6,200.00	\$22.00	\$3,410.00	\$22.00	\$3,410.00
30	Sheet Pile (Temporary)	1 LS	\$60,000.00	\$60,000.00	\$75,000.00	\$75,000.00	\$73,000.00	\$73,000.00	\$73,000.00	\$73,000.00
31	Jacking Casing Pipe, 54" Steel Pipe	372 LF	\$1,800.00	\$669,600.00	\$1,300.00	\$483,600.00	\$1,450.00	\$539,400.00	\$1,450.00	\$539,400.00
32	Jacking Casing Pipe, 60" Steel Pipe	90 LF	\$2,000.00	\$180,000.00	\$955.00	\$85,950.00	\$1,500.00	\$135,000.00	\$1,500.00	\$135,000.00
33	Sewer, Storm, 24" Rcp Class IV	125 LF	\$60.00	\$7,500.00	\$69.00	\$8,625.00	\$60.00	\$7,500.00	\$60.00	\$7,500.00
34	Pipe Apron, 24" Fes With Apron Guard	1 EA	\$1,500.00	\$1,500.00	\$1,650.00	\$1,650.00	\$750.00	\$750.00	\$750.00	\$750.00
35	Precast Concrete Box Culvert End Section, 8'X4'	144 LF	\$800.00	\$115,200.00	\$900.00	\$129,600.00	\$815.00	\$117,360.00	\$815.00	\$117,360.00
36	Precast Concrete Box Culvert End Section, 6'X4'	2 EA	\$6,600.00	\$13,200.00	\$8,000.00	\$16,000.00	\$15,000.00	\$30,000.00	\$15,000.00	\$30,000.00
37	Water Main, 8", PVC C900	90 LF	\$65.00	\$5,850.00	\$71.50	\$6,435.00	\$100.00	\$9,000.00	\$100.00	\$9,000.00
38	Water Main, 16", DIP W/ Restrained Joints And Nitrile Gaskets	376 LF	\$125.00	\$47,000.00	\$137.50	\$51,700.00	\$124.00	\$46,624.00	\$124.00	\$46,624.00
39	Fittings, Water Main	1830 LBS	\$3.50	\$6,405.00	\$3.50	\$6,405.00	\$3.50	\$6,405.00	\$3.50	\$6,405.00
40	Gate Valve, 16"	1 EA	\$5,000.00	\$5,000.00	\$5,750.00	\$5,750.00	\$6,500.00	\$6,500.00	\$6,500.00	\$6,500.00
41	Structural Concrete	48.9 CY	\$600.00	\$29,340.00	\$800.00	\$39,120.00	\$2,150.00	\$105,135.00	\$2,150.00	\$105,135.00

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ITEM	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT	UNIT PRICE	AMOUNT
42	Reinforcing Steel	6230 LBS	\$0.85	\$5,295.50	\$1.10	\$6,853.00	\$2.50	\$15,575.00
43	Inlet Headwall Structure	1 EA	\$30,000.00	\$30,000.00	\$36,000.00	\$36,000.00	\$46,000.00	\$46,000.00
44	Trash Racks	3 EA	\$7,500.00	\$22,500.00	\$9,000.00	\$27,000.00	\$10,000.00	\$30,000.00
45	Manhole, Storm, 60" Dia Type M-A	1 EA	\$3,500.00	\$3,500.00	\$4,025.00	\$4,025.00	\$3,500.00	\$3,500.00
46	Intake, Double, M-D	1 EA	\$4,000.00	\$4,000.00	\$4,400.00	\$4,400.00	\$3,800.00	\$3,800.00
47	Intake, Double, M-E	1 EA	\$5,000.00	\$5,000.00	\$5,500.00	\$5,500.00	\$5,000.00	\$5,000.00
48	Intake, Single, M-G	1 EA	\$3,000.00	\$3,000.00	\$3,300.00	\$3,300.00	\$4,200.00	\$4,200.00
49	PCC Pavement, 10" Class C	1035 SY	\$50.00	\$51,750.00	\$60.00	\$62,100.00	\$70.00	\$72,450.00
50	PCC Pavement, 10" Class C Single Reinforced	395 SY	\$100.00	\$39,500.00	\$110.00	\$43,450.00	\$80.00	\$31,600.00
51	PCC Pavement, 6" Class C Reinforced	69 SY	\$50.00	\$3,450.00	\$55.00	\$3,795.00	\$50.00	\$3,450.00
52	Curb And Gutter, 30", Class C PCC	355 LF	\$30.00	\$10,650.00	\$31.00	\$11,005.00	\$20.00	\$7,100.00
53	Granular Surfacing Material	1000 TON	\$35.00	\$35,000.00	\$35.00	\$35,000.00	\$22.00	\$22,000.00
54	Granular Shoulder, Class D	30 TON	\$40.00	\$1,200.00	\$44.00	\$1,320.00	\$22.00	\$660.00
55	Sidewalk, 4" Class C	38 SY	\$35.00	\$1,330.00	\$38.50	\$1,463.00	\$20.00	\$760.00
56	PCC Flume, 6" Class C Reinforced	23 SY	\$50.00	\$1,150.00	\$55.00	\$1,265.00	\$100.00	\$2,300.00
57	Seeding, Type 1, Lawn Mixture	1.5 ACRE	\$1,500.00	\$2,250.00	\$2,507.00	\$3,760.50	\$2,500.00	\$3,750.00
58	Seeding, Type 2, Erosion Control Mix	1.5 ACRE	\$800.00	\$1,200.00	\$1,023.50	\$1,535.25	\$1,500.00	\$2,250.00
59	Silt Fence	3000 LF	\$3.50	\$10,500.00	\$3.00	\$9,000.00	\$2.00	\$6,000.00
60	Erosion Control	1 LS	\$10,000.00	\$10,000.00	\$8,000.00	\$8,000.00	\$4,000.00	\$4,000.00
61	Revetment Stone, Class D	325 TON	\$35.00	\$11,375.00	\$39.00	\$12,675.00	\$40.00	\$13,000.00
62	Fence, Chain Link, 4'	100 LF	\$20.00	\$2,000.00	\$82.80	\$8,280.00	\$75.00	\$7,500.00
63	Gate, Chain Link	2 EA	\$500.00	\$1,000.00	\$661.00	\$1,322.00	\$1,000.00	\$2,000.00
64	Concrete Steps	118 SF	\$35.00	\$4,130.00	\$39.00	\$4,602.00	\$50.00	\$5,900.00
65	Handrail	55 LF	\$50.00	\$2,750.00	\$55.00	\$3,025.00	\$75.00	\$4,125.00
66	Flowable Mortar	100 CY	\$110.00	\$11,000.00	\$110.00	\$11,000.00	\$120.00	\$12,000.00
				\$1,953,736.20		\$1,828,802.86		\$1,873,344.50
								-4.1%
								\$0.00

TOTAL CONSTRUCTION COST
PERCENT OF ENGINEER'S ESTIMATE