



DATE June 13, 2022

PUBLIC HEARING, APPROVING PLANS, SPECIFICATIONS, FORM OF CONTRACT DOCUMENTS, AND ENGINEER'S ESTIMATE ON WATROUS AVENUE FROM SW 56TH STREET TO SW 61ST STREET; RECEIVE AND FILE BIDS; AND DESIGNATION OF LOWEST RESPONSIVE, RESPONSIBLE BIDDER AS VANDERPOOL CONSTRUCTION, INC., TOBIN VANDERPOOL, PRESIDENT, \$1,533,497.95

WHEREAS, on May 9, 2022, under Roll Call No. 22-0665, 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:

Watrous Avenue from SW 56th Street to SW 61st Street, 062022015

The improvement includes street construction with a 27-foot wide back-to-back Portland Cement Concrete (PCC) roadway 7-inches thick, modified subbase, subdrain, subgrade treatment, grading, pavement removal, PCC driveways, PCC sidewalk, storm sewer, intakes, storm manholes, traffic control, surface restoration, and other incidental items; all in accordance with the contract documents, including Plan File No. 642-176/289, located at Watrous Avenue from S.W. 56th Street to S.W. 61st 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.

WHEREAS, in accordance with said notice, those interested in said proposed plans, specifications, form of contract documents, and Engineer's estimate of construction cost both for and against, have been given opportunity to be heard with respect thereto and have presented their views to the City Council.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF DES MOINES, IOWA: That the upon due consideration of the facts, and any and all statements of interested persons, any objections to the plans, specifications, form of contract documents, and Engineer's estimate of construction cost for said improvement are overruled and the hearing is closed and that said plans, specifications, form of contract documents, and Engineer's estimate of construction cost are hereby approved.

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

- Vanderpool Construction, Inc., Indianola, IA Low Bid
- Reilly Construction Co., Inc. , Ossian, IA
- Concrete Technologies, Inc., Grimes, IA
- Absolute Concrete Construction, Inc., Slater, IA
- Wenthold Excavating LLC, Cambridge, IA
- Synergy Contracting, LLC, Altoona, IA

which were received and opened at a public meeting presided over by the Engineer in the City Council Chambers, 2nd Floor, City Hall, 400 Robert D. Ray Drive, Des Moines, Iowa at 11:00 a.m. on May 24, 2022. 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 Vanderpool Construction, Inc., Tobin Vanderpool, President, 1100 N. 14th Street, Indianola, IA, 50125-1506 in the amount of \$1,533,497.95, and said bid be and the same is hereby accepted.



Roll Call Number

Agenda Item Number

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DATE June 13, 2022

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.

BE IT FURTHER RESOLVED: That the City Council hereby authorizes the necessary closure of all public grounds, streets, sidewalks, alleys, bridges, culverts, overpasses, underpasses, grade crossing separations and approaches, public ways, squares, and commons for the Project.

(City Council Communication Number 22-271 attached)

Moved by _____ to adopt. Second by _____

FORM APPROVED:

FUNDS AVAILABLE

s/ Kathleen Vanderpool

s/ Nickolas J. Schaul

Kathleen Vanderpool
Deputy City Attorney

Nickolas J. Schaul
Director of Finance



Funding Source: 2022-23 CIP, Page 159, Watrous Avenue Extension, ST308, Being: \$296,497.95 in G.O Bonds, \$400,000 in G.O. Bonds to be issued, \$830,000 in G.O. bonds to be transferred from ST065 - PCC Pavement Replacement Program, and the remaining \$7,000 from Des Moines Water Works

COUNCIL ACTION	YEAS	NAYS	PASS	ABSENT
COWNIE				
BOESEN				
GATTO				
MANDELBAUM				
SHEUMAKER				
VOSS				
WESTERGAARD				
TOTAL				

I, Laura Baumgartner, Acting 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.

MOTION CARRIED APPROVED

Mayor

City Clerk

TABULATED BY: N. Smith APPROVED BY: P. Wager
CHECKED BY: Jonathan Ballou

CONTRACTOR'S BID TABULATION

PROJECT: Watrous Avenue from SW 56th Street to SW 61st Street

-----ESTIMATE-----

Vanderpool Construction
Inc.
Indianola, IA

Reilly Construction Co., Inc
Ossian, IA

Concrete Technologies Inc.
Grimes, IA

BID SECURITY
10% Bid Bond
BID PRICE

BID SECURITY
10% Bid Bond
BID PRICE

BID SECURITY
10% Bid Bond
BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0001	Clearing and Grubbing	3.9 AC	\$12,500.00	\$48,750.00	\$10,780.00	\$42,042.00	\$9,500.00	\$37,050.00	\$9,445.00	\$36,835.50
0002	Topsoil, On-Site	4534 CY	\$12.00	\$54,408.00	\$12.80	\$58,035.20	\$8.50	\$38,539.00	\$8.15	\$36,952.10
0003	Excavation, Class 10	12787 CY	\$10.00	\$127,870.00	\$7.20	\$92,066.40	\$8.50	\$108,689.50	\$4.75	\$60,738.25
0004	Excavation, Class 10, Borrow	5926 CY	\$18.00	\$106,668.00	\$16.10	\$95,408.60	\$15.00	\$88,890.00	\$12.60	\$74,667.60
0005	Below Grade Excavation, Core Out	443 CY	\$15.00	\$6,645.00	\$14.60	\$6,467.80	\$15.00	\$6,645.00	\$4.25	\$1,882.75
0006	Subgrade Preparation	4658 SY	\$5.00	\$23,290.00	\$4.40	\$20,495.20	\$4.50	\$20,961.00	\$3.05	\$14,206.90
0007	Subbase, Modified, 6" Depth	5941 SY	\$15.00	\$89,115.00	\$12.40	\$73,668.40	\$12.50	\$74,262.50	\$13.25	\$78,718.25
0008	Removal of Known Pipe Culvert, CMP, 24"	36 LF	\$20.00	\$720.00	\$32.00	\$1,152.00	\$25.00	\$900.00	\$33.75	\$1,215.00
0009	Replacement of Unsuitable Backfill Material	443 CY	\$15.00	\$6,645.00	\$6.00	\$2,658.00	\$30.00	\$13,290.00	\$6.30	\$2,790.90
0010	Storm Sewer, Trenched, Class III, 15"	269 LF	\$100.00	\$26,900.00	\$81.00	\$21,789.00	\$93.00	\$25,017.00	\$85.00	\$22,865.00
0011	Storm Sewer, Trenched, Class III, 18"	784 LF	\$110.00	\$86,240.00	\$84.00	\$65,856.00	\$95.00	\$74,480.00	\$88.50	\$69,384.00
0012	Storm Sewer, Trenched, Class III, 24"	157 LF	\$125.00	\$19,625.00	\$114.00	\$17,898.00	\$115.00	\$18,055.00	\$120.00	\$18,840.00
0013	Storm Sewer, Trenched, RCP, Class III, 72"	118 LF	\$425.00	\$50,150.00	\$567.00	\$66,906.00	\$550.00	\$64,900.00	\$595.00	\$70,210.00
0014	Pipe Culvert, Trenched, RCP, Class III, 36" RE	40 LF	\$215.00	\$8,600.00	\$233.00	\$9,320.00	\$225.00	\$9,000.00	\$245.00	\$9,800.00
0015	Pipe Apron, 24"	1 EA	\$2,500.00	\$2,500.00	\$2,400.00	\$2,400.00	\$1,650.00	\$1,650.00	\$2,520.00	\$2,520.00
0016	Pipe Apron, RCP, 36" RE	2 EA	\$4,000.00	\$8,000.00	\$3,200.00	\$6,400.00	\$2,600.00	\$5,200.00	\$3,360.00	\$6,720.00
0017	Pipe Apron, RCP, 72"	2 EA	\$75,000.00	\$150,000.00	\$8,700.00	\$17,400.00	\$6,000.00	\$12,000.00	\$9,135.00	\$18,270.00
0018	Footing for Concrete Pipe Apron, 36" RE	2 EA	\$1,500.00	\$3,000.00	\$1,400.00	\$2,800.00	\$1,300.00	\$2,600.00	\$1,470.00	\$2,940.00
0019	Footing for Concrete Pipe Apron, 72"	2 EA	\$2,500.00	\$5,000.00	\$2,200.00	\$4,400.00	\$2,300.00	\$4,600.00	\$2,310.00	\$4,620.00
0020	Pipe Apron Guard	5 EA	\$3,000.00	\$15,000.00	\$3,500.00	\$17,500.00	\$3,000.00	\$15,000.00	\$3,675.00	\$18,375.00
0021	Subdrain, PVC, 6"	2785 LF	\$35.00	\$97,475.00	\$21.00	\$58,485.00	\$24.00	\$66,840.00	\$15.25	\$42,471.25
0022	Subdrain Cleanout, Type A-1, 6"	4 EA	\$800.00	\$3,200.00	\$575.00	\$2,300.00	\$750.00	\$3,000.00	\$445.00	\$1,780.00
0023	Subdrain Outlets and Connections, PVC, 6"	21 EA	\$400.00	\$8,400.00	\$500.00	\$10,500.00	\$250.00	\$5,250.00	\$345.00	\$7,245.00
0024	Fire Hydrant Adjustment	2 EA	\$3,500.00	\$7,000.00	\$1,725.00	\$3,450.00	\$3,500.00	\$7,000.00	\$1,815.00	\$3,630.00
0025	Manhole, SW-401 Modified, 120"	1 EA	\$35,000.00	\$35,000.00	\$60,500.00	\$60,500.00	\$36,000.00	\$36,000.00	\$63,525.00	\$63,525.00
0026	Intake, SW-501	13 EA	\$6,000.00	\$78,000.00	\$4,700.00	\$61,100.00	\$4,800.00	\$62,400.00	\$5,040.00	\$65,520.00
0027	Intake, SW-503	1 EA	\$7,000.00	\$7,000.00	\$9,100.00	\$9,100.00	\$6,900.00	\$6,900.00	\$9,555.00	\$9,555.00
0028	Intake, SW-505	3 EA	\$8,000.00	\$24,000.00	\$6,900.00	\$20,700.00	\$6,700.00	\$20,100.00	\$7,560.00	\$22,680.00
0029	Intake, SW-506	1 EA	\$9,500.00	\$9,500.00	\$12,100.00	\$12,100.00	\$10,000.00	\$10,000.00	\$12,705.00	\$12,705.00
0030	Intake, SW-511	1 EA	\$6,000.00	\$6,000.00	\$3,900.00	\$3,900.00	\$4,600.00	\$4,600.00	\$4,095.00	\$4,095.00
0031	Intake Adjustment, Minor	2 EA	\$2,500.00	\$5,000.00	\$1,400.00	\$2,800.00	\$2,100.00	\$4,200.00	\$1,470.00	\$2,940.00
0032	Manhole Adjustment, Minor	2 EA	\$1,500.00	\$3,000.00	\$1,300.00	\$2,600.00	\$2,000.00	\$4,000.00	\$1,365.00	\$2,730.00
0033	Pavement, PCC, 7"	4814 SY	\$75.00	\$361,050.00	\$71.00	\$341,794.00	\$71.50	\$344,201.00	\$65.50	\$315,317.00
0034	Removal of Sidewalk	16 SY	\$20.00	\$320.00	\$54.00	\$864.00	\$25.00	\$400.00	\$15.75	\$252.00
0035	Sidewalk, PCC, 4"	839 SY	\$70.00	\$58,730.00	\$55.00	\$46,145.00	\$55.15	\$46,270.85	\$69.00	\$57,891.00
0036	Sidewalk, PCC, 6"	81 SY	\$85.00	\$6,885.00	\$131.00	\$10,611.00	\$131.25	\$10,631.25	\$111.25	\$9,011.25

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ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT		
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	
0037	Detectable Warning Panels	68 SF	\$50.00	\$3,400.00	\$68.00	\$4,624.00	\$68.25	\$4,641.00	\$48.00	\$3,264.00	
0038	Driveway, Paved, PCC, 7"	97 SY	\$75.00	\$7,275.00	\$77.00	\$7,469.00	\$76.65	\$7,435.05	\$126.50	\$12,270.50	
0039	Full-Depth Patches	33 SY	\$150.00	\$4,950.00	\$186.00	\$6,138.00	\$126.00	\$4,158.00	\$185.00	\$6,105.00	
0040	Pavement Removal	752 SY	\$15.00	\$11,280.00	\$15.40	\$11,580.80	\$15.00	\$11,280.00	\$15.75	\$11,844.00	
0041	Temporary Granular Surfacing	130 TON	\$35.00	\$4,550.00	\$65.00	\$8,450.00	\$50.00	\$6,500.00	\$41.00	\$5,330.00	
0042	Temporary Traffic Control	1 LS	\$10,000.00	\$10,000.00	\$10,400.00	\$10,400.00	\$10,000.00	\$10,000.00	\$9,975.00	\$9,975.00	
0043	Portable Dynamic Message Sign	14 DAY	\$200.00	\$2,800.00	\$210.00	\$2,940.00	\$135.00	\$1,890.00	\$131.50	\$1,841.00	
0044	Type A Signs, Sheet Aluminum	63 SF	\$100.00	\$6,300.00	\$52.00	\$3,276.00	\$47.25	\$2,976.75	\$47.25	\$2,976.75	
0045	Sign Post, Perforated Square, Steel Tube Post	115 LF	\$60.00	\$6,900.00	\$31.00	\$3,565.00	\$26.25	\$3,018.75	\$26.25	\$3,018.75	
0046	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 1	4.5 AC	\$5,000.00	\$22,500.00	\$6,300.00	\$28,350.00	\$6,300.00	\$28,350.00	\$6,300.00	\$28,350.00	
0047	Storm Water Pollution Prevention	1 LS	\$5,000.00	\$5,000.00	\$6,300.00	\$6,300.00	\$6,500.00	\$6,500.00	\$6,300.00	\$6,300.00	
0048	Filter Sock, 9"	3587 LF	\$2.00	\$7,174.00	\$3.40	\$12,195.80	\$3.45	\$12,375.15	\$3.50	\$12,554.50	
0049	Filter Sock, 12"	40 LF	\$3.00	\$120.00	\$10.50	\$420.00	\$10.50	\$420.00	\$10.50	\$420.00	
0050	Filter Sock, Removal	3627 LF	\$0.25	\$906.75	\$1.05	\$3,808.35	\$1.00	\$3,627.00	\$1.05	\$3,808.35	
0051	Temporary RECP, Type 2.C	2405 SY	\$2.00	\$4,810.00	\$2.60	\$6,253.00	\$2.65	\$6,373.25	\$2.65	\$6,373.25	
0052	Rock Check Dam	15 TON	\$50.00	\$750.00	\$94.00	\$1,410.00	\$80.00	\$1,200.00	\$125.00	\$1,875.00	
0053	Rip Rap, Class A	150 TON	\$80.00	\$12,000.00	\$87.00	\$13,050.00	\$80.00	\$12,000.00	\$91.50	\$13,725.00	
0054	Silt Fence	1739 LF	\$1.50	\$2,608.50	\$1.80	\$3,130.20	\$1.75	\$3,043.25	\$1.90	\$3,304.10	
0055	Silt Fence, Removal of Sediment	139 LF	\$0.50	\$69.50	\$0.05	\$6.95	\$0.05	\$6.95	\$0.10	\$13.90	
0056	Silt Fence, Removal of Device	1391 LF	\$0.50	\$695.50	\$0.05	\$69.55	\$0.05	\$69.55	\$0.10	\$139.10	
0057	Stabilized Construction Entrance	125 TON	\$60.00	\$7,500.00	\$51.70	\$6,462.50	\$75.00	\$9,375.00	\$36.75	\$4,593.75	
0058	Erosion Control Mulching, Hydromulching	4.5 AC	\$1,750.00	\$7,875.00	\$3,100.00	\$13,950.00	\$3,150.00	\$14,175.00	\$3,150.00	\$14,175.00	
0059	Turf Reinforcement Mats, Type 1	14 SQ	\$50.00	\$700.00	\$78.00	\$1,092.00	\$78.75	\$1,102.50	\$79.00	\$1,106.00	
0060	Inlet Protection Device, Surface Applied	24 EA	\$175.00	\$4,200.00	\$157.00	\$3,768.00	\$157.50	\$3,780.00	\$160.00	\$3,840.00	
0061	Inlet Protection Device, Maintenance	24 EA	\$35.00	\$840.00	\$50.00	\$1,200.00	\$52.50	\$1,260.00	\$52.50	\$1,260.00	
0062	Removal of Fence	1567 LF	\$10.00	\$15,670.00	\$1.60	\$2,507.20	\$1.60	\$2,507.20	\$1.60	\$2,507.20	
0063	Removal of Steel Beam Guardrail	29 LF	\$10.00	\$290.00	\$30.00	\$870.00	\$50.00	\$1,450.00	\$105.00	\$3,045.00	
0064	Construction Survey	1 LS	\$15,000.00	\$15,000.00	\$16,700.00	\$16,700.00	\$21,000.00	\$21,000.00	\$21,000.00	\$21,000.00	
0065	Monument Preservation and Replacement	1 LS	\$7,500.00	\$7,500.00	\$7,900.00	\$7,900.00	\$8,000.00	\$8,000.00	\$7,875.00	\$7,875.00	
0066	Mobilization	1 LS	\$69,749.25	\$69,749.25	\$70,000.00	\$70,000.00	\$90,000.00	\$90,000.00	\$220,000.00	\$220,000.00	
0067	Concrete Washout	1 LS	\$4,000.00	\$4,000.00	\$4,000.00	\$4,000.00	\$3,200.00	\$3,200.00	\$1,885.00	\$1,885.00	
TOTAL CONSTRUCTION COST				\$1,797,099.50		\$1,533,497.95		\$1,535,236.50		\$1,588,673.90	
PERCENT OF ENGINEER'S ESTIMATE						-14.67%		-14.57%		-11.60%	
						Low					

TABULATED BY: N. Smith APPROVED BY: P. Wagoner
CHECKED BY: _____

CONTRACTOR'S BID TABULATION

PROJECT: Watrous Avenue from SW 56th Street to SW 61st Street

-----ESTIMATE-----

Absolute Concrete
Construction Inc.
Slater, IA

Wenthold Excavating LLC
Elkhart, IA

Synergy Contracting LLC
Des Moines, IA

BID SECURITY
10% Bid Bond
BID PRICE

BID SECURITY
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BID SECURITY
10% Bid Bond
BID PRICE

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0001	Clearing and Grubbing	3.9 AC	\$12,500.00	\$48,750.00	\$9,000.00	\$35,100.00	\$10,500.00	\$40,950.00	\$12,600.00	\$49,140.00
0002	Topsoil, On-Site	4534 CY	\$12.00	\$54,408.00	\$8.50	\$38,539.00	\$10.00	\$45,340.00	\$12.00	\$54,408.00
0003	Excavation, Class 10	12787 CY	\$10.00	\$127,870.00	\$8.50	\$108,689.50	\$3.50	\$44,754.50	\$12.00	\$153,444.00
0004	Excavation, Class 10, Borrow	5926 CY	\$18.00	\$106,668.00	\$15.00	\$88,890.00	\$22.00	\$130,372.00	\$24.00	\$142,224.00
0005	Below Grade Excavation, Core Out	443 CY	\$15.00	\$6,645.00	\$15.00	\$6,645.00	\$5.00	\$2,215.00	\$12.00	\$5,316.00
0006	Subgrade Preparation	4658 SY	\$5.00	\$23,290.00	\$4.50	\$20,961.00	\$5.00	\$23,290.00	\$6.00	\$27,948.00
0007	Subbase, Modified, 6" Depth	5941 SY	\$15.00	\$89,115.00	\$12.50	\$74,262.50	\$15.00	\$89,115.00	\$18.00	\$106,938.00
0008	Removal of Known Pipe Culvert, CMP, 24"	36 LF	\$20.00	\$720.00	\$25.00	\$900.00	\$50.00	\$1,800.00	\$49.00	\$1,764.00
0009	Replacement of Unsuitable Backfill Material	443 CY	\$15.00	\$6,645.00	\$30.00	\$13,290.00	\$10.00	\$4,430.00	\$63.00	\$27,909.00
0010	Storm Sewer, Trenched, Class III, 15"	269 LF	\$100.00	\$26,900.00	\$93.00	\$25,017.00	\$110.00	\$29,590.00	\$287.00	\$77,203.00
0011	Storm Sewer, Trenched, Class III, 18"	784 LF	\$110.00	\$86,240.00	\$95.00	\$74,480.00	\$135.00	\$105,840.00	\$168.00	\$131,712.00
0012	Storm Sewer, Trenched, Class III, 24"	157 LF	\$125.00	\$19,625.00	\$115.00	\$18,055.00	\$165.00	\$25,905.00	\$224.00	\$35,168.00
0013	Storm Sewer, Trenched, RCP, Class III, 72"	118 LF	\$425.00	\$50,150.00	\$550.00	\$64,900.00	\$700.00	\$82,600.00	\$861.00	\$101,598.00
0014	Pipe Culvert, Trenched, RCP, Class III, 36" RE	40 LF	\$215.00	\$8,600.00	\$225.00	\$9,000.00	\$350.00	\$14,000.00	\$378.00	\$15,120.00
0015	Pipe Apron, 24"	1 EA	\$2,500.00	\$2,500.00	\$1,650.00	\$1,650.00	\$3,000.00	\$3,000.00	\$3,990.00	\$3,990.00
0016	Pipe Apron, RCP, 36" RE	2 EA	\$4,000.00	\$8,000.00	\$2,600.00	\$5,200.00	\$4,000.00	\$8,000.00	\$5,600.00	\$11,200.00
0017	Pipe Apron, RCP, 72"	2 EA	\$75,000.00	\$150,000.00	\$6,000.00	\$12,000.00	\$7,500.00	\$15,000.00	\$12,460.00	\$24,920.00
0018	Footing for Concrete Pipe Apron, 36" RE	2 EA	\$1,500.00	\$3,000.00	\$1,300.00	\$2,600.00	\$3,000.00	\$6,000.00	\$3,150.00	\$6,300.00
0019	Footing for Concrete Pipe Apron, 72"	2 EA	\$2,500.00	\$5,000.00	\$2,300.00	\$4,600.00	\$4,500.00	\$9,000.00	\$5,880.00	\$11,760.00
0020	Pipe Apron Guard	5 EA	\$3,000.00	\$15,000.00	\$3,000.00	\$15,000.00	\$5,000.00	\$25,000.00	\$4,620.00	\$23,100.00
0021	Subdrain, PVC, 6"	2785 LF	\$35.00	\$97,475.00	\$24.00	\$66,840.00	\$35.00	\$97,475.00	\$21.00	\$58,485.00
0022	Subdrain Cleanout, Type A-1, 6"	4 EA	\$800.00	\$3,200.00	\$750.00	\$3,000.00	\$1,700.00	\$6,800.00	\$595.00	\$2,380.00
0023	Subdrain Outlets and Connections, PVC, 6"	21 EA	\$400.00	\$8,400.00	\$250.00	\$5,250.00	\$1,000.00	\$21,000.00	\$910.00	\$19,110.00
0024	Fire Hydrant Adjustment	2 EA	\$3,500.00	\$7,000.00	\$3,500.00	\$7,000.00	\$2,500.00	\$5,000.00	\$4,200.00	\$8,400.00
0025	Manhole, SW-401 Modified, 120"	1 EA	\$35,000.00	\$35,000.00	\$36,000.00	\$36,000.00	\$45,000.00	\$45,000.00	\$49,280.00	\$49,280.00
0026	Intake, SW-501	13 EA	\$6,000.00	\$78,000.00	\$4,800.00	\$62,400.00	\$5,500.00	\$71,500.00	\$5,180.00	\$67,340.00
0027	Intake, SW-503	1 EA	\$7,000.00	\$7,000.00	\$6,900.00	\$6,900.00	\$6,500.00	\$6,500.00	\$7,665.00	\$7,665.00
0028	Intake, SW-505	3 EA	\$8,000.00	\$24,000.00	\$6,700.00	\$20,100.00	\$6,500.00	\$19,500.00	\$7,000.00	\$21,000.00
0029	Intake, SW-506	1 EA	\$9,500.00	\$9,500.00	\$10,000.00	\$10,000.00	\$8,500.00	\$8,500.00	\$10,080.00	\$10,080.00
0030	Intake, SW-511	1 EA	\$6,000.00	\$6,000.00	\$4,600.00	\$4,600.00	\$5,500.00	\$5,500.00	\$5,110.00	\$5,110.00
0031	Intake Adjustment, Minor	2 EA	\$2,500.00	\$5,000.00	\$2,100.00	\$4,200.00	\$1,500.00	\$3,000.00	\$2,940.00	\$5,880.00
0032	Manhole Adjustment, Minor	2 EA	\$1,500.00	\$3,000.00	\$2,000.00	\$4,000.00	\$5,000.00	\$10,000.00	\$3,500.00	\$7,000.00
0033	Pavement, PCC, 7"	4814 SY	\$75.00	\$361,050.00	\$75.00	\$361,050.00	\$72.75	\$350,218.50	\$84.00	\$404,376.00
0034	Removal of Sidewalk	16 SY	\$20.00	\$320.00	\$25.00	\$400.00	\$30.00	\$480.00	\$36.00	\$576.00
0035	Sidewalk, PCC, 4"	839 SY	\$70.00	\$58,730.00	\$85.00	\$71,315.00	\$77.00	\$64,603.00	\$66.00	\$55,374.00
0036	Sidewalk, PCC, 6"	81 SY	\$85.00	\$6,885.00	\$105.00	\$8,505.00	\$123.50	\$10,003.50	\$150.00	\$12,150.00

ITEM	DESCRIPTION	QUANTITY	UNIT		UNIT		UNIT		UNIT	
			PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT	PRICE	AMOUNT
0037	Detectable Warning Panels	68 SF	\$50.00	\$3,400.00	\$70.00	\$4,760.00	\$48.60	\$3,304.80	\$78.00	\$5,304.00
0038	Driveway, Paved, PCC, 7"	97 SY	\$75.00	\$7,275.00	\$120.00	\$11,640.00	\$140.50	\$13,628.50	\$90.00	\$8,730.00
0039	Full-Depth Patches	33 SY	\$150.00	\$4,950.00	\$400.00	\$13,200.00	\$260.00	\$8,580.00	\$144.00	\$4,752.00
0040	Pavement Removal	752 SY	\$15.00	\$11,280.00	\$15.00	\$11,280.00	\$35.00	\$26,320.00	\$21.00	\$15,792.00
0041	Temporary Granular Surfacing	130 TON	\$35.00	\$4,550.00	\$50.00	\$6,500.00	\$65.00	\$8,450.00	\$72.00	\$9,360.00
0042	Temporary Traffic Control	1 LS	\$10,000.00	\$10,000.00	\$14,000.00	\$14,000.00	\$11,000.00	\$11,000.00	\$17,500.00	\$17,500.00
0043	Portable Dynamic Message Sign	14 DAY	\$200.00	\$2,800.00	\$125.00	\$1,750.00	\$139.00	\$1,946.00	\$245.00	\$3,430.00
0044	Type A Signs, Sheet Aluminum	63 SF	\$100.00	\$6,300.00	\$45.00	\$2,835.00	\$50.00	\$3,150.00	\$42.00	\$2,646.00
0045	Sign Post, Perforated Square, Steel Tube Post	115 LF	\$60.00	\$6,900.00	\$25.00	\$2,875.00	\$30.00	\$3,450.00	\$42.00	\$4,830.00
0046	Hydraulic Seeding, Seeding, Fertilizing, and Mulching, Type 1	4.5 AC	\$5,000.00	\$22,500.00	\$6,000.00	\$27,000.00	\$6,700.00	\$30,150.00	\$8,400.00	\$37,800.00
0047	Storm Water Pollution Prevention	1 LS	\$5,000.00	\$5,000.00	\$6,000.00	\$6,000.00	\$7,000.00	\$7,000.00	\$8,400.00	\$8,400.00
0048	Filter Sock, 9"	3587 LF	\$2.00	\$7,174.00	\$3.00	\$10,761.00	\$3.65	\$13,092.55	\$4.00	\$14,348.00
0049	Filter Sock, 12"	40 LF	\$3.00	\$120.00	\$8.00	\$320.00	\$11.25	\$450.00	\$12.00	\$480.00
0050	Filter Sock, Removal	3627 LF	\$0.25	\$906.75	\$0.50	\$1,813.50	\$1.15	\$4,171.05	\$2.00	\$7,254.00
0051	Temporary RECP, Type 2.C	2405 SY	\$2.00	\$4,810.00	\$2.50	\$6,012.50	\$2.80	\$6,734.00	\$3.00	\$7,215.00
0052	Rock Check Dam	15 TON	\$50.00	\$750.00	\$80.00	\$1,200.00	\$75.00	\$1,125.00	\$70.00	\$1,050.00
0053	Rip Rap, Class A	150 TON	\$80.00	\$12,000.00	\$80.00	\$12,000.00	\$75.00	\$11,250.00	\$84.00	\$12,600.00
0054	Silt Fence	1739 LF	\$1.50	\$2,608.50	\$1.75	\$3,043.25	\$2.00	\$3,478.00	\$3.00	\$5,217.00
0055	Silt Fence, Removal of Sediment	139 LF	\$0.50	\$69.50	\$0.05	\$6.95	\$0.15	\$20.85	\$1.00	\$139.00
0056	Silt Fence, Removal of Device	1391 LF	\$0.50	\$695.50	\$0.05	\$69.55	\$0.10	\$139.10	\$1.00	\$1,391.00
0057	Stabilized Construction Entrance	125 TON	\$60.00	\$7,500.00	\$75.00	\$9,375.00	\$60.00	\$7,500.00	\$72.00	\$9,000.00
0058	Erosion Control Mulching, Hydromulching	4.5 AC	\$1,750.00	\$7,875.00	\$3,000.00	\$13,500.00	\$3,400.00	\$15,300.00	\$4,200.00	\$18,900.00
0059	Turf Reinforcement Mats, Type 1	14 SQ	\$50.00	\$700.00	\$75.00	\$1,050.00	\$83.25	\$1,165.50	\$105.00	\$1,470.00
0060	Inlet Protection Device, Surface Applied	24 EA	\$175.00	\$4,200.00	\$150.00	\$3,600.00	\$170.00	\$4,080.00	\$210.00	\$5,040.00
0061	Inlet Protection Device, Maintenance	24 EA	\$35.00	\$840.00	\$50.00	\$1,200.00	\$60.00	\$1,440.00	\$70.00	\$1,680.00
0062	Removal of Fence	1567 LF	\$10.00	\$15,670.00	\$1.50	\$2,350.50	\$5.00	\$7,835.00	\$2.00	\$3,134.00
0063	Removal of Steel Beam Guardrail	29 LF	\$10.00	\$290.00	\$50.00	\$1,450.00	\$50.00	\$1,450.00	\$42.00	\$1,218.00
0064	Construction Survey	1 LS	\$15,000.00	\$15,000.00	\$25,000.00	\$25,000.00	\$22,500.00	\$22,500.00	\$28,000.00	\$28,000.00
0065	Monument Preservation and Replacement	1 LS	\$7,500.00	\$7,500.00	\$8,500.00	\$8,500.00	\$8,400.00	\$8,400.00	\$10,500.00	\$10,500.00
0066	Mobilization	1 LS	\$69,749.25	\$69,749.25	\$200,000.00	\$200,000.00	\$72,500.00	\$72,500.00	\$157,000.00	\$157,000.00
0067	Concrete Washout	1 LS	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00	\$2,500.00	\$2,500.00	\$4,200.00	\$4,200.00
TOTAL CONSTRUCTION COST				\$1,797,099.50		\$1,696,931.25		\$1,733,391.85		\$2,153,748.00
PERCENT OF ENGINEER'S ESTIMATE						-5.57%		-3.55%		+19.85%