

1421 E. 104th Street
Ste 100
Kansas City, Missouri 64131
(816) 333-4477 Office

cfse.com

Mr. Charles Soules
Public Works Director
City of Smithville, MO
107 West Main Street
Smithville, MO 64089

Other Offices:
Kansas City, Kansas
Lawrence, Kansas
Holton, Kansas
Topeka, Kansas
Springfield, Missouri
Jefferson City, Missouri

Re: E Main Street Trail Project
Bid Recommendation

Dear Mr. Soules:

We have evaluated the bids received on June 30, 2020 for the E Main Street Trail Project. A total of nine bids were received.

Bidder	Base Bid	Add. Alt. #1 Bid	Add. Alt. #2 Bid	Total Bid
Engineer's Estimate	\$1,195,370.00	\$37,925.00	\$113,219.00	\$1,346,514.00
Amino	\$1,183,426.45	\$34,432.90	\$79,926.75	\$1,297,786.10
Gunter	\$1,357,148.00	\$51,618.00	\$88,930.45	\$1,497,696.45
JM Fahey	\$1,371,063.35	\$49,123.00	\$117,453.50	\$1,537,639.85
Mega KC	\$1,424,502.00	\$42,874.60	\$118,202.00	\$1,585,578.60
She Digs It	\$1,433,730.70	\$63,325.00	\$94,769.75	\$1,591,825.45
Prime Time	\$1,535,588.00	\$41,321.00	\$127,974.00	\$1,704,883.00
Blue Moon	\$1,637,058.05	\$52,322.18	\$94,042.07	\$1,783,422.30
Pyramid	\$1,837,675.00	\$38,075.00	\$114,490.00	\$1,990,240.00
Prairie Band	\$1,886,250.88	\$60,690.80	\$103,399.18	\$2,050,340.86

Board of Directors:
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William J. Stafford, P.E.
Richard A. Walker, P.E.
Lucas W. Williams, P.E.

The low bid was submitted by Amino Brothers in the amount of \$1,297,786.10. All bids received included the required documents. Our evaluation of the experience, reputation, and financial condition of Amino Brothers indicates that they are capable of completing the work required. Therefore, we recommend the award of the contract for the construction of the E

Main Street Trail Project to Amino Brothers in the amount of \$1,297,786.10, which includes the Base, Add Alt #1, and Add Alt #2 Bids. The bid tabulation is attached to this document.

Sincerely,
CFS Engineers

A handwritten signature in blue ink, appearing to read "Joel S. Buffington".

Joel S. Buffington, PE

Cook, Flatt & Strobel Engineers, P.A.
1421 E. 104th Street, Suite 100
Kansas City, MO 64131
CFS Project Number: 191005

E Main/Hwy DD Trail
Construction Estimate
City of Smithville
Clay County, Missouri

Prepared By : JB
Printed: 7/7/2020

BID SUMMARY

ITEM	QTY.	UNIT	Engineer		Amino Brothers		Gunter		JM Fahey		Mega KC	
			PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST
GENERAL												
Mobilization	1	LS	\$65,000.00	\$65,000.00	\$48,825.00	\$48,825.00	\$32,805.00	\$32,805.00	\$70,000.00	\$70,000.00	\$135,000.00	\$135,000.00
Clearing & Grubbing	1	LS	\$35,000.00	\$35,000.00	\$21,222.00	\$21,222.00	\$25,000.00	\$25,000.00	\$30,000.00	\$30,000.00	\$20,000.00	\$20,000.00
Removal of Existing Structures	1	LS	\$25,000.00	\$25,000.00	\$11,976.00	\$11,976.00	\$20,000.00	\$20,000.00	\$33,000.00	\$33,000.00	\$129,000.00	\$129,000.00
Contractor Construction Staking	1	LS	\$15,000.00	\$15,000.00	\$16,537.00	\$16,537.00	\$15,000.00	\$15,000.00	\$15,000.00	\$15,000.00	\$19,000.00	\$19,000.00
Traffic Control	1	LS	\$15,000.00	\$15,000.00	\$6,394.00	\$6,394.00	\$44,000.00	\$44,000.00	\$10,000.00	\$10,000.00	\$16,000.00	\$16,000.00
Retaining Walls	3650	SF	\$40.00	\$146,000.00	\$52.90	\$193,085.00	\$60.00	\$219,000.00	\$50.00	\$182,500.00	\$40.00	\$146,000.00
Chain Link Fence for Retaining Walls	500	LF	\$60.00	\$30,000.00	\$67.45	\$33,725.00	\$45.00	\$22,500.00	\$74.00	\$37,000.00	\$44.00	\$22,000.00
Relocate Water Meter	1	Each	\$5,000.00	\$5,000.00	\$1,461.00	\$1,461.00	\$800.00	\$800.00	\$15,000.00	\$15,000.00	\$2,100.00	\$2,100.00
Connect Existing Sump Pump Drain to Storm Sewer and Install Check Valve	1	Each	\$5,000.00	\$5,000.00	\$1,478.00	\$1,478.00	\$1,300.00	\$1,300.00	\$1,100.00	\$1,100.00	\$2,800.00	\$2,800.00
Trailhead Solar Bench	2	Each	\$5,000.00	\$10,000.00	\$6,492.00	\$12,984.00	\$14,000.00	\$28,000.00	\$6,400.00	\$12,800.00	\$6,000.00	\$12,000.00
Trailhead Bicycle Rack	4	Each	\$900.00	\$3,600.00	\$517.00	\$2,068.00	\$1,500.00	\$6,000.00	\$1,100.00	\$4,400.00	\$1,000.00	\$4,000.00
Trailhead Water Bottle Filler	2	Each	\$10,000.00	\$20,000.00	\$14,014.00	\$28,028.00	\$15,000.00	\$30,000.00	\$7,200.00	\$14,400.00	\$3,500.00	\$7,000.00
Trailhead Bicycle Fix-It Station	2	Each	\$3,000.00	\$6,000.00	\$1,744.00	\$3,488.00	\$3,100.00	\$6,200.00	\$3,100.00	\$6,200.00	\$3,000.00	\$6,000.00
6" Concrete Pad	56	SY	\$65.00	\$3,640.00	\$72.25	\$4,046.00	\$48.00	\$2,688.00	\$100.00	\$5,600.00	\$81.00	\$4,536.00
			Subtotal	\$384,240.00	Subtotal	\$385,317.00	Subtotal	\$453,293.00	Subtotal	\$437,000.00	Subtotal	\$525,436.00
GRADING												
Unclassified Excavation	2490	CY	\$20.00	\$49,800.00	\$19.50	\$48,555.00	\$35.00	\$87,150.00	\$43.00	\$107,070.00	\$14.00	\$34,860.00
Embankment	2622	CY	\$20.00	\$52,440.00	\$5.15	\$13,503.30	\$12.00	\$31,464.00	\$11.00	\$28,842.00	\$13.00	\$34,086.00
			Subtotal	\$102,240.00	Subtotal	\$62,058.30	Subtotal	\$118,614.00	Subtotal	\$135,912.00	Subtotal	\$68,946.00
CURBS, PAVING & SIDEWALKS												
Concrete Multi-Use Path	6395	SY	\$36.00	\$230,220.00	\$49.15	\$314,314.25	\$48.00	\$306,960.00	\$36.00	\$230,220.00	\$39.00	\$249,405.00
6" Concrete Driveway	603	SY	\$65.00	\$39,195.00	\$61.95	\$37,355.85	\$58.00	\$34,974.00	\$65.00	\$39,195.00	\$56.00	\$33,768.00
6" Asphalt Driveway	87	SY	\$65.00	\$5,655.00	\$34.40	\$2,992.80	\$130.00	\$11,310.00	\$84.00	\$7,308.00	\$121.00	\$10,527.00
6" Gravel Driveway	27	SY	\$50.00	\$1,350.00	\$17.90	\$483.30	\$37.00	\$999.00	\$22.00	\$594.00	\$13.00	\$351.00
Curb and Gutter Type CG-1	772	LF	\$25.00	\$19,300.00	\$30.30	\$23,391.60	\$32.00	\$24,704.00	\$32.00	\$24,704.00	\$31.00	\$23,932.00
Curb and Gutter Type CG-1 DRY	234	LF	\$25.00	\$5,850.00	\$30.30	\$7,090.20	\$32.00	\$7,488.00	\$32.00	\$7,488.00	\$31.00	\$7,254.00
Integral Sidewalk Wall	910	SF	\$50.00	\$45,500.00	\$47.25	\$42,997.50	\$30.00	\$27,300.00	\$55.00	\$50,050.00	\$66.00	\$60,060.00
ADA Ramps	13	Each	\$1,500.00	\$19,500.00	\$2,005.00	\$26,065.00	\$1,320.00	\$17,160.00	\$2,100.00	\$27,300.00	\$2,600.00	\$33,800.00
Concrete Base	33	CY	\$250.00	\$8,250.00	\$287.00	\$9,471.00	\$285.00	\$9,405.00	\$400.00	\$13,200.00	\$189.00	\$6,237.00
2" Type 3 Asphaltic Concrete Surface	791	SY	\$30.00	\$23,730.00	\$18.65	\$14,752.15	\$27.00	\$21,357.00	\$15.00	\$11,865.00	\$31.00	\$24,521.00
6" Type 1 Asphaltic Concrete Base	540	SY	\$60.00	\$32,400.00	\$26.30	\$14,202.00	\$44.00	\$23,760.00	\$35.00	\$18,900.00	\$50.00	\$27,000.00
6" Type AB-3 Aggregate Subbase	740	SY	\$20.00	\$14,800.00	\$11.80	\$8,732.00	\$20.00	\$14,800.00	\$13.00	\$9,620.00	\$11.50	\$8,510.00
			Subtotal	\$445,750.00	Subtotal	\$501,847.65	Subtotal	\$500,217.00	Subtotal	\$440,444.00	Subtotal	\$485,365.00
DRAINAGE												
4'X4' Area Inlet	3	Each	\$4,000.00	\$12,000.00	\$3,722.00	\$11,166.00	\$4,410.00	\$13,230.00	\$4,800.00	\$14,400.00	\$5,100.00	\$15,300.00
5'X5' Area Inlet	2	Each	\$4,500.00	\$9,000.00	\$4,711.00	\$9,422.00	\$6,740.00	\$13,480.00	\$5,700.00	\$11,400.00	\$6,400.00	\$12,800.00
5'X5' Field Inlet	1	Each	\$4,500.00	\$4,500.00	\$4,244.00	\$4,244.00	\$5,180.00	\$5,180.00	\$5,200.00	\$5,200.00	\$5,800.00	\$5,800.00
4'X4' Junction Box	3	Each	\$4,000.00	\$12,000.00	\$3,942.00	\$11,826.00	\$4,150.00	\$12,450.00	\$5,000.00	\$15,000.00	\$5,400.00	\$16,200.00
5'X5' Junction Box	2	Each	\$4,500.00	\$9,000.00	\$4,821.00	\$9,642.00	\$6,000.00	\$12,000.00	\$5,700.00	\$11,400.00	\$6,500.00	\$13,000.00
Nyoplast 2'x2'x15" Curb Inlet	5	Each	\$3,500.00	\$17,500.00	\$2,941.00	\$14,705.00	\$2,800.00	\$14,000.00	\$4,000.00	\$20,000.00	\$4,700.00	\$23,500.00
12" HDPE End Section	6	Each	\$1,000.00	\$6,000.00	\$458.00	\$2,748.00	\$715.00	\$4,290.00	\$1,200.00	\$7,200.00	\$1,400.00	\$8,400.00
15" HDPE End Section	3	Each	\$1,000.00	\$3,000.00	\$458.00	\$1,374.00	\$750.00	\$2,250.00	\$1,225.00	\$3,675.00	\$1,700.00	\$5,100.00
18" HDPE End Section	2	Each	\$1,000.00	\$2,000.00	\$510.00	\$1,020.00	\$850.00	\$1,700.00	\$1,250.00	\$2,500.00	\$1,700.00	\$3,400.00
18" RCP End Section	3	Each	\$1,000.00	\$3,000.00	\$510.00	\$1,530.00	\$650.00	\$1,950.00	\$1,900.00	\$5,700.00	\$2,000.00	\$6,000.00
24" HDPE End Section	3	Each	\$1,000.00	\$3,000.00	\$570.00	\$1,710.00	\$920.00	\$2,760.00	\$1,300.00	\$3,900.00	\$2,200.00	\$6,600.00
36" RCP End Section	1	Each	\$1,750.00	\$1,750.00	\$1,079.00	\$1,079.00	\$1,400.00	\$1,400.00	\$2,300.00	\$2,300.00	\$3,100.00	\$3,100.00
42" RCP End Section	1	Each	\$2,500.00	\$2,500.00	\$1,634.00	\$1,634.00	\$2,260.00	\$2,260.00	\$2,500.00	\$2,500.00	\$3,700.00	\$3,700.00
24" Pipe Collar	3	Each	\$500.00	\$1,500.00	\$733.00	\$2,199.00	\$350.00	\$1,050.00	\$800.00	\$2,400.00	\$410.00	\$1,230.00

Cook, Flatt & Strobel Engineers, P.A.
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CFS Project Number: 191005

E Main/Hwy DD Trail
Construction Estimate
City of Smithville
Clay County, Missouri

Prepared By : JB
Printed: 7/7/2020

BID SUMMARY

ITEM	QTY.	UNIT	Engineer		Amino Brothers		Gunter		JM Fahey		Mega KC	
			PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST
GENERAL												
36" Pipe Collar	2	Each	\$500.00	\$1,000.00	\$949.00	\$1,898.00	\$620.00	\$1,240.00	\$1,100.00	\$2,200.00	\$640.00	\$1,280.00
48" Pipe Collar	1	Each	\$500.00	\$500.00	\$1,165.00	\$1,165.00	\$880.00	\$880.00	\$1,350.00	\$1,350.00	\$680.00	\$680.00
12" HDPE Storm Sewer	228	LF	\$35.00	\$7,980.00	\$45.95	\$10,476.60	\$50.00	\$11,400.00	\$68.00	\$15,504.00	\$56.00	\$12,768.00
15" HDPE Storm Sewer	207	LF	\$45.00	\$9,315.00	\$49.45	\$10,236.15	\$53.00	\$10,971.00	\$80.00	\$16,560.00	\$60.00	\$12,420.00
15" RCP Storm Sewer	111	LF	\$55.00	\$6,105.00	\$53.55	\$5,944.05	\$88.00	\$9,768.00	\$120.00	\$13,320.00	\$109.00	\$12,099.00
18" HDPE Storm Sewer	261	LF	\$55.00	\$14,355.00	\$53.90	\$14,067.90	\$60.00	\$15,660.00	\$85.00	\$22,185.00	\$73.00	\$19,053.00
18" RCP Storm Sewer	109	LF	\$60.00	\$6,540.00	\$59.05	\$6,436.45	\$80.00	\$8,720.00	\$310.00	\$33,790.00	\$114.00	\$12,426.00
24" HDPE Storm Sewer	90	LF	\$65.00	\$5,850.00	\$63.25	\$5,692.50	\$70.00	\$6,300.00	\$92.00	\$8,280.00	\$83.00	\$7,470.00
36" HDPE Storm Sewer	240	LF	\$75.00	\$18,000.00	\$82.45	\$19,788.00	\$110.00	\$26,400.00	\$104.00	\$24,960.00	\$105.00	\$25,200.00
36" RCP Storm Sewer	130	LF	\$125.00	\$16,250.00	\$98.30	\$12,779.00	\$125.00	\$16,250.00	\$255.00	\$33,150.00	\$280.00	\$36,400.00
42" RCP Storm Sewer	61	LF	\$150.00	\$9,150.00	\$124.00	\$7,564.00	\$190.00	\$11,590.00	\$370.00	\$22,570.00	\$262.00	\$15,982.00
48" HDPE Storm Sewer	5	LF	\$100.00	\$500.00	\$241.00	\$1,205.00	\$490.00	\$2,450.00	\$325.00	\$1,625.00	\$304.00	\$1,520.00
Stone Rip-Rap	46	CY	\$350.00	\$16,100.00	\$103.00	\$4,738.00	\$120.00	\$5,520.00	\$120.00	\$5,520.00	\$330.00	\$15,180.00
			Subtotal	\$198,395.00	Subtotal	\$176,289.65	Subtotal	\$215,149.00	Subtotal	\$308,589.00	Subtotal	\$296,608.00
SIGNING AND PAVEMENT MARKING												
Sign Assembly	4	Each	\$1,000.00	\$4,000.00	\$1,102.00	\$4,408.00	\$760.00	\$3,040.00	\$603.00	\$2,412.00	\$638.00	\$2,552.00
24" White Pavement Marking	84	LF	\$25.00	\$2,100.00	\$65.05	\$5,464.20	\$30.00	\$2,520.00	\$31.00	\$2,604.00	\$28.00	\$2,352.00
Rectangular Rapid Flashing Beacon System	1	Each	\$15,000.00	\$15,000.00	\$19,844.00	\$19,844.00	\$20,000.00	\$20,000.00	\$15,200.00	\$15,200.00	\$15,000.00	\$15,000.00
			Subtotal	\$21,100.00	Subtotal	\$29,716.20	Subtotal	\$25,560.00	Subtotal	\$20,216.00	Subtotal	\$19,904.00
EROSION CONTROL												
Silt Fence	4480	LF	\$2.00	\$8,960.00	\$1.40	\$6,272.00	\$2.00	\$8,960.00	\$1.32	\$5,913.60	\$1.60	\$7,168.00
Rock Ditch Check (4" Rock)	22	Each	\$500.00	\$11,000.00	\$315.00	\$6,930.00	\$690.00	\$15,180.00	\$410.00	\$9,020.00	\$210.00	\$4,620.00
Temporary Seeding & Mulching	2.7	Ac	\$1,500.00	\$4,050.00	\$1,312.00	\$3,542.40	\$1,700.00	\$4,590.00	\$1,200.00	\$3,240.00	\$570.00	\$1,539.00
Erosion Control Blanket	3195	SY	\$3.00	\$9,585.00	\$1.85	\$5,910.75	\$3.00	\$9,585.00	\$1.75	\$5,591.25	\$2.00	\$6,390.00
Area Inlet Protection	6	Each	\$100.00	\$600.00	\$82.70	\$496.20	\$100.00	\$600.00	\$80.00	\$480.00	\$206.00	\$1,236.00
Permanent Seeding & Mulching	2.7	Ac	\$3,500.00	\$9,450.00	\$1,869.00	\$5,046.30	\$2,000.00	\$5,400.00	\$1,725.00	\$4,657.50	\$2,700.00	\$7,290.00
			Subtotal	\$43,645.00	Subtotal	\$28,197.65	Subtotal	\$44,315.00	Subtotal	\$28,902.35	Subtotal	\$28,243.00
			Subtotal Base Bid	\$1,195,370.00	Subtotal Base Bid	\$1,183,426.45	Subtotal Base Bid	\$1,357,148.00	Subtotal Base Bid	\$1,371,063.35	Subtotal Base Bid	\$1,424,502.00
ADD ALTERNATE 1												
Furnishing Type 2 Rock Blanket	509	CY	\$40.00	\$20,360.00	\$40.70	\$20,716.30	\$60.00	\$30,540.00	\$58.00	\$29,522.00	\$57.00	\$29,013.00
Placing Type 2 Rock Blanket	509	CY	\$25.00	\$12,725.00	\$18.20	\$9,263.80	\$30.00	\$15,270.00	\$29.00	\$14,761.00	\$24.00	\$12,216.00
Permanent Erosion Control Geotextile	968	SY	\$5.00	\$4,840.00	\$4.60	\$4,452.80	\$6.00	\$5,808.00	\$5.00	\$4,840.00	\$1.70	\$1,645.60
			Subtotal Add Alternate 1	\$37,925.00	Subtotal Add Alt 1	\$34,432.90	Subtotal Add Alt 1	\$51,618.00	Subtotal Add Alt 1	\$49,123.00	Subtotal Add Alt 1	\$42,874.60
ADD ALTERNATE 2												
Unclassified Excavation(New Corridor Only)	576	CY	\$20.00	\$11,520.00	\$21.35	\$12,297.60	\$13.00	\$7,488.00	\$32.00	\$18,432.00	\$45.00	\$25,920.00
Embankment(New Corridor Only)	4	CY	\$20.00	\$80.00	\$23.70	\$94.80	\$60.00	\$240.00	\$35.00	\$140.00	\$15.50	\$62.00
6" Type 1 Asphaltic Concrete	765	SY	\$50.00	\$38,250.00	\$26.20	\$20,043.00	\$35.00	\$26,775.00	\$32.50	\$24,862.50	\$40.00	\$30,600.00
9" Type AB-3 Aggregate Subbase	945	SY	\$25.00	\$23,625.00	\$14.30	\$13,513.50	\$11.00	\$10,395.00	\$10.00	\$9,450.00	\$14.50	\$13,702.50
4" Concrete Multi-Use Path	19	SY	\$36.00	\$684.00	\$77.35	\$1,469.65	\$40.00	\$760.00	\$42.00	\$798.00	\$56.00	\$1,064.00
Type CG-1 Curb & Gutter	540	LF	\$25.00	\$13,500.00	\$26.70	\$14,418.00	\$30.00	\$16,200.00	\$32.00	\$17,280.00	\$31.00	\$16,740.00
ADA Ramps	1	Each	\$1,500.00	\$1,500.00	\$1,985.00	\$1,985.00	\$1,700.00	\$1,700.00	\$2,500.00	\$2,500.00	\$2,700.00	\$2,700.00
Nyoplast 2'x2'x15" Curb Inlet	2	Each	\$3,500.00	\$7,000.00	\$2,941.00	\$5,882.00	\$2,858.66	\$5,717.32	\$4,000.00	\$8,000.00	\$4,700.00	\$9,400.00
15" HDPE End Section	1	Each	\$1,000.00	\$1,000.00	\$458.00	\$458.00	\$753.00	\$753.00	\$1,300.00	\$1,300.00	\$2,550.00	\$2,550.00
15" HDPE Storm Sewer	177	LF	\$55.00	\$9,735.00	\$37.85	\$6,699.45	\$94.55	\$16,735.35	\$183.00	\$32,391.00	\$62.00	\$10,974.00
Stone Rip-Rap	10	CY	\$350.00	\$3,500.00	\$107.00	\$1,070.00	\$121.61	\$1,216.10	\$155.00	\$1,550.00	\$356.00	\$3,560.00
4" White Striping(Parking Lot)	225	LF	\$5.00	\$1,125.00	\$4.95	\$1,113.75	\$1.52	\$342.00	\$1.20	\$270.00	\$1.30	\$292.50
ADA Accessible Parking Pavement Marking Symbol	1	Each	\$1,200.00	\$1,200.00	\$551.00	\$551.00	\$164.85	\$164.85	\$130.00	\$130.00	\$127.00	\$127.00
ADA Accessible Parking Sign Assembly	1	Each	\$500.00	\$500.00	\$331.00	\$331.00	\$443.83	\$443.83	\$350.00	\$350.00	\$510.00	\$510.00
			Subtotal Add Alternate 2	\$113,219.00	Subtotal Add Alt 2	\$79,926.75	Subtotal Add Alt 2	\$88,930.45	Subtotal Add Alt 2	\$117,453.50	Subtotal Add Alt 2	\$118,202.00
			Total Base Bid+ Add Alt 1 + Add Alt 2	\$1,346,514.00	Total Bid	\$1,297,786.10	Total Bid	\$1,497,696.45	Total Bid	\$1,537,639.85	Total Bid	\$1,585,578.60

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1421 E. 104th Street, Suite 100
Kansas City, MO 64131
CFS Project Number: 191005

E Main/Hwy DD Trail
Construction Estimate
City of Smithville
Clay County, Missouri

Prepared By : JB
Printed: 7/7/2020

BID SUMMARY

ITEM	QTY.	UNIT	She Digs It		Prime Time		Blue Moon		Pyramid		Prairie Band	
			PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST
GENERAL												
Mobilization	1	LS	\$110,000.00	\$110,000.00	\$86,000.00	\$86,000.00	\$175,000.00	\$175,000.00	\$90,000.00	\$90,000.00	\$250,528.58	\$250,528.58
Clearing & Grubbing	1	LS	\$22,300.00	\$22,300.00	\$30,000.00	\$30,000.00	\$23,000.00	\$23,000.00	\$75,000.00	\$75,000.00	\$73,544.06	\$73,544.06
Removal of Existing Structures	1	LS	\$24,000.00	\$24,000.00	\$40,000.00	\$40,000.00	\$21,000.00	\$21,000.00	\$70,000.00	\$70,000.00	\$86,315.45	\$86,315.45
Contractor Construction Staking	1	LS	\$17,150.00	\$17,150.00	\$15,000.00	\$15,000.00	\$19,000.00	\$19,000.00	\$16,000.00	\$16,000.00	\$18,928.83	\$18,928.83
Traffic Control	1	LS	\$11,600.00	\$11,600.00	\$15,000.00	\$15,000.00	\$33,200.00	\$33,200.00	\$8,600.00	\$8,600.00	\$9,993.31	\$9,993.31
Retaining Walls	3650	SF	\$43.00	\$156,950.00	\$55.00	\$200,750.00	\$54.00	\$197,100.00	\$56.00	\$204,400.00	\$50.48	\$184,252.00
Chain Link Fence for Retaining Walls	500	LF	\$56.00	\$28,000.00	\$60.00	\$30,000.00	\$56.35	\$28,175.00	\$42.00	\$21,000.00	\$52.02	\$26,010.00
Relocate Water Meter	1	Each	\$1,733.00	\$1,733.00	\$2,000.00	\$2,000.00	\$2,655.00	\$2,655.00	\$1,200.00	\$1,200.00	\$1,954.91	\$1,954.91
Connect Existing Sump Pump Drain to Storm Sewer and Install Check Valve	1	Each	\$780.00	\$780.00	\$3,000.00	\$3,000.00	\$2,680.00	\$2,680.00	\$1,300.00	\$1,300.00	\$2,664.56	\$2,664.56
Trailhead Solar Bench	2	Each	\$7,200.00	\$14,400.00	\$10,000.00	\$20,000.00	\$10,600.00	\$21,200.00	\$9,450.00	\$18,900.00	\$5,344.61	\$10,689.22
Trailhead Bicycle Rack	4	Each	\$410.00	\$1,640.00	\$550.00	\$2,200.00	\$915.00	\$3,660.00	\$800.00	\$3,200.00	\$334.04	\$1,336.16
Trailhead Water Bottle Filler	2	Each	\$12,050.00	\$24,100.00	\$7,500.00	\$15,000.00	\$25,400.00	\$50,800.00	\$11,000.00	\$22,000.00	\$9,798.45	\$19,596.90
Trailhead Bicycle Fix-It Station	2	Each	\$2,550.00	\$5,100.00	\$2,600.00	\$5,200.00	\$2,500.00	\$5,000.00	\$3,200.00	\$6,400.00	\$1,670.19	\$3,340.38
6" Concrete Pad	56	SY	\$78.50	\$4,396.00	\$90.00	\$5,040.00	\$80.00	\$4,480.00	\$73.00	\$4,088.00	\$114.69	\$6,422.64
		Subtotal	Subtotal	\$422,149.00	Subtotal	\$469,190.00	Subtotal	\$586,950.00	Subtotal	\$542,088.00	Subtotal	\$695,577.00
GRADING												
Unclassified Excavation	2490	CY	\$19.00	\$47,310.00	\$50.00	\$124,500.00	\$40.20	\$100,098.00	\$50.00	\$124,500.00	\$64.58	\$160,804.20
Embankment	2622	CY	\$27.00	\$70,794.00	\$20.00	\$52,440.00	\$12.50	\$32,775.00	\$45.00	\$117,990.00	\$27.84	\$72,996.48
		Subtotal	Subtotal	\$118,104.00	Subtotal	\$176,940.00	Subtotal	\$132,873.00	Subtotal	\$242,490.00	Subtotal	\$233,800.68
CURBS, PAVING & SIDEWALKS												
Concrete Multi-Use Path	6395	SY	\$63.45	\$405,762.75	\$43.00	\$274,985.00	\$59.50	\$380,502.50	\$74.00	\$473,230.00	\$50.11	\$320,453.45
6" Concrete Driveway	603	SY	\$85.00	\$51,255.00	\$65.00	\$39,195.00	\$75.00	\$45,225.00	\$108.00	\$65,124.00	\$169.25	\$102,057.75
6" Asphalt Driveway	87	SY	\$124.00	\$10,788.00	\$125.00	\$10,875.00	\$117.00	\$10,179.00	\$130.00	\$11,310.00	\$101.21	\$8,805.27
6" Gravel Driveway	27	SY	\$17.40	\$469.80	\$13.00	\$351.00	\$30.50	\$823.50	\$30.00	\$810.00	\$72.37	\$1,953.99
Curb and Gutter Type CG-1	772	LF	\$34.00	\$26,248.00	\$25.00	\$19,300.00	\$54.00	\$41,688.00	\$32.00	\$24,704.00	\$31.18	\$24,070.96
Curb and Gutter Type CG-1 DRY	234	LF	\$34.00	\$7,956.00	\$35.00	\$8,190.00	\$56.00	\$13,104.00	\$43.00	\$10,062.00	\$31.18	\$7,296.12
Integral Sidewalk Wall	910	SF	\$33.55	\$30,530.50	\$40.00	\$36,400.00	\$67.84	\$61,734.40	\$80.00	\$72,800.00	\$50.11	\$45,600.10
ADA Ramps	13	Each	\$2,257.00	\$29,341.00	\$1,500.00	\$19,500.00	\$1,700.00	\$22,100.00	\$2,300.00	\$29,900.00	\$2,727.98	\$35,463.74
Concrete Base	33	CY	\$400.00	\$13,200.00	\$190.00	\$6,270.00	\$200.00	\$6,600.00	\$395.00	\$13,035.00	\$289.50	\$9,553.50
2" Type 3 Asphaltic Concrete Surface	791	SY	\$31.00	\$24,521.00	\$32.00	\$25,312.00	\$30.20	\$23,888.20	\$30.00	\$23,730.00	\$18.93	\$14,973.63
6" Type 1 Asphaltic Concrete Base	540	SY	\$48.00	\$25,920.00	\$50.00	\$27,000.00	\$48.88	\$26,395.20	\$44.00	\$23,760.00	\$35.80	\$19,332.00
6" Type AB-3 Aggregate Subbase	740	SY	\$9.50	\$7,030.00	\$13.00	\$9,620.00	\$10.00	\$7,400.00	\$14.00	\$10,360.00	\$7.79	\$5,764.60
		Subtotal	Subtotal	\$633,022.05	Subtotal	\$476,998.00	Subtotal	\$639,639.80	Subtotal	\$758,825.00	Subtotal	\$595,325.11
DRAINAGE												
4'X4' Area Inlet	3	Each	\$3,320.00	\$9,960.00	\$6,000.00	\$18,000.00	\$3,450.00	\$10,350.00	\$5,500.00	\$16,500.00	\$7,578.21	\$22,734.63
5'X5' Area Inlet	2	Each	\$4,950.00	\$9,900.00	\$7,300.00	\$14,600.00	\$3,800.00	\$7,600.00	\$6,000.00	\$12,000.00	\$11,469.76	\$22,939.52
5'X5' Field Inlet	1	Each	\$4,400.00	\$4,400.00	\$6,600.00	\$6,600.00	\$4,000.00	\$4,000.00	\$5,500.00	\$5,500.00	\$9,526.77	\$9,526.77
4'X4' Junction Box	3	Each	\$4,035.00	\$12,105.00	\$6,200.00	\$18,600.00	\$3,500.00	\$10,500.00	\$5,000.00	\$15,000.00	\$7,714.05	\$23,142.15
5'X5' Junction Box	2	Each	\$5,535.00	\$11,070.00	\$7,500.00	\$15,000.00	\$4,300.00	\$8,600.00	\$5,500.00	\$11,000.00	\$10,948.66	\$21,897.32
Nyoplast 2'x2'x15" Curb Inlet	5	Each	\$2,365.00	\$11,825.00	\$5,400.00	\$27,000.00	\$3,000.00	\$15,000.00	\$2,600.00	\$13,000.00	\$3,864.82	\$19,324.10
12" HDPE End Section	6	Each	\$890.00	\$5,340.00	\$1,700.00	\$10,200.00	\$600.00	\$3,600.00	\$450.00	\$2,700.00	\$2,131.16	\$12,786.96
15" HDPE End Section	3	Each	\$890.00	\$2,670.00	\$1,900.00	\$5,700.00	\$885.00	\$2,655.00	\$600.00	\$1,800.00	\$2,170.13	\$6,510.39
18" HDPE End Section	2	Each	\$1,500.00	\$3,000.00	\$2,000.00	\$4,000.00	\$985.00	\$1,970.00	\$650.00	\$1,300.00	\$2,268.12	\$4,536.24
18" RCP End Section	3	Each	\$1,235.00	\$3,705.00	\$2,300.00	\$6,900.00	\$1,365.00	\$4,095.00	\$825.00	\$2,475.00	\$2,657.83	\$7,973.49
24" HDPE End Section	3	Each	\$2,045.00	\$6,135.00	\$2,600.00	\$7,800.00	\$1,000.00	\$3,000.00	\$700.00	\$2,100.00	\$2,357.20	\$7,071.60
36" RCP End Section	1	Each	\$2,110.00	\$2,110.00	\$3,500.00	\$3,500.00	\$5,000.00	\$5,000.00	\$2,000.00	\$2,000.00	\$3,595.36	\$3,595.36
42" RCP End Section	1	Each	\$2,850.00	\$2,850.00	\$4,000.00	\$4,000.00	\$2,500.00	\$2,500.00	\$2,200.00	\$2,200.00	\$4,128.71	\$4,128.71
24" Pipe Collar	3	Each	\$1,215.00	\$3,645.00	\$500.00	\$1,500.00	\$1,500.00	\$4,500.00	\$650.00	\$1,950.00	\$2,155.66	\$6,466.98

Cook, Flatt & Strobel Engineers, P.A.
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ITEM	QTY.	UNIT	PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST	PRICE	COST
GENERAL												
36" Pipe Collar	2	Each	\$1,745.00	\$3,490.00	\$750.00	\$1,500.00	\$2,600.00	\$5,200.00	\$2,000.00	\$4,000.00	\$2,177.93	\$4,355.86
48" Pipe Collar	1	Each	\$2,100.00	\$2,100.00	\$750.00	\$750.00	\$5,600.00	\$5,600.00	\$3,000.00	\$3,000.00	\$2,232.49	\$2,232.49
12" HDPE Storm Sewer	228	LF	\$36.50	\$8,322.00	\$65.00	\$14,820.00	\$36.00	\$8,208.00	\$75.00	\$17,100.00	\$54.56	\$12,439.68
15" HDPE Storm Sewer	207	LF	\$40.00	\$8,280.00	\$70.00	\$14,490.00	\$53.00	\$10,971.00	\$85.00	\$17,595.00	\$56.79	\$11,755.53
15" RCP Storm Sewer	111	LF	\$70.00	\$7,770.00	\$125.00	\$13,875.00	\$60.50	\$6,715.50	\$95.00	\$10,545.00	\$91.30	\$10,134.30
18" HDPE Storm Sewer	261	LF	\$48.50	\$12,658.50	\$85.00	\$22,185.00	\$55.75	\$14,550.75	\$95.00	\$24,795.00	\$55.12	\$14,386.32
18" RCP Storm Sewer	109	LF	\$88.00	\$9,592.00	\$130.00	\$14,170.00	\$143.75	\$15,668.75	\$105.00	\$11,445.00	\$120.81	\$13,168.29
24" HDPE Storm Sewer	90	LF	\$70.50	\$6,345.00	\$95.00	\$8,550.00	\$63.00	\$5,670.00	\$100.00	\$9,000.00	\$67.92	\$6,112.80
36" HDPE Storm Sewer	240	LF	\$96.00	\$23,040.00	\$120.00	\$28,800.00	\$82.00	\$19,680.00	\$115.00	\$27,600.00	\$99.10	\$23,784.00
36" RCP Storm Sewer	130	LF	\$130.00	\$16,900.00	\$325.00	\$42,250.00	\$126.00	\$16,380.00	\$150.00	\$19,500.00	\$151.43	\$19,685.90
42" RCP Storm Sewer	61	LF	\$188.00	\$11,468.00	\$300.00	\$18,300.00	\$227.00	\$13,847.00	\$185.00	\$11,285.00	\$201.54	\$12,293.94
48" HDPE Storm Sewer	5	LF	\$345.00	\$1,725.00	\$350.00	\$1,750.00	\$620.00	\$3,100.00	\$400.00	\$2,000.00	\$474.33	\$2,371.65
Stone Rip-Rap	46	CY	\$146.00	\$6,716.00	\$350.00	\$16,100.00	\$115.00	\$5,290.00	\$85.00	\$3,910.00	\$137.51	\$6,325.46
Subtotal			Subtotal	\$207,121.50	Subtotal	\$340,940.00	Subtotal	\$214,251.00	Subtotal	\$251,300.00	Subtotal	\$311,680.44
SIGNING AND PAVEMENT MARKING												
Sign Assembly	4	Each	\$650.00	\$2,600.00	\$750.00	\$3,000.00	\$690.00	\$2,760.00	\$550.00	\$2,200.00	\$668.08	\$2,672.32
24" White Pavement Marking	84	LF	\$28.60	\$2,402.40	\$30.00	\$2,520.00	\$34.50	\$2,898.00	\$18.00	\$1,512.00	\$33.40	\$2,805.60
Rectangular Rapid Flashing Beacon System	1	Each	\$15,500.00	\$15,500.00	\$15,000.00	\$15,000.00	\$17,250.00	\$17,250.00	\$14,000.00	\$14,000.00	\$16,701.91	\$16,701.91
Subtotal			Subtotal	\$20,502.40	Subtotal	\$20,520.00	Subtotal	\$22,908.00	Subtotal	\$17,712.00	Subtotal	\$22,179.83
EROSION CONTROL												
Silt Fence	4480	LF	\$1.50	\$6,720.00	\$2.00	\$8,960.00	\$1.36	\$6,092.80	\$1.50	\$6,720.00	\$1.60	\$7,168.00
Rock Ditch Check (4" Rock)	22	Each	\$407.00	\$8,954.00	\$1,000.00	\$22,000.00	\$740.00	\$16,280.00	\$150.00	\$3,300.00	\$211.56	\$4,654.32
Temporary Seeding & Mulching	2.7	Ac	\$1,460.00	\$3,942.00	\$1,500.00	\$4,050.00	\$1,380.00	\$3,726.00	\$700.00	\$1,890.00	\$556.73	\$1,503.17
Erosion Control Blanket	3195	SY	\$2.15	\$6,869.25	\$2.00	\$6,390.00	\$1.41	\$4,504.95	\$2.00	\$6,390.00	\$1.87	\$5,974.65
Area Inlet Protection	6	Each	\$88.00	\$528.00	\$250.00	\$1,500.00	\$86.25	\$517.50	\$80.00	\$480.00	\$200.42	\$1,202.52
Permanent Seeding & Mulching	2.7	Ac	\$2,155.00	\$5,818.50	\$3,000.00	\$8,100.00	\$3,450.00	\$9,315.00	\$2,400.00	\$6,480.00	\$2,661.17	\$7,185.16
Subtotal			Subtotal	\$32,831.75	Subtotal	\$51,000.00	Subtotal	\$40,436.25	Subtotal	\$25,260.00	Subtotal	\$27,687.82
Subtotal Base Bid			Subtotal Base Bid	\$1,433,730.70	Subtotal Base Bid	\$1,535,588.00	Subtotal Base Bid	\$1,637,058.05	Subtotal Base Bid	\$1,837,675.00	Subtotal Base Bid	\$1,886,250.88
ADD ALTERNATE 1												
Furnishing Type 2 Rock Blanket	509	CY	\$52.00	\$26,468.00	\$32.00	\$16,288.00	\$83.75	\$42,628.75	\$52.00	\$26,468.00	\$75.72	\$38,541.48
Placing Type 2 Rock Blanket	509	CY	\$61.00	\$31,049.00	\$43.00	\$21,887.00	\$14.67	\$7,467.03	\$19.00	\$9,671.00	\$34.52	\$17,570.68
Permanent Erosion Control Geotextile	968	SY	\$6.00	\$5,808.00	\$3.25	\$3,146.00	\$2.30	\$2,226.40	\$2.00	\$1,936.00	\$4.73	\$4,578.64
Subtotal Add Alternate 1			Subtotal Add Alt 1	\$63,325.00	Subtotal Add Alt 1	\$41,321.00	Subtotal Add Alt 1	\$52,322.18	Subtotal Add Alt 1	\$38,075.00	Subtotal Add Alt 1	\$60,690.80
ADD ALTERNATE 2												
Unclassified Excavation(New Corridor Only)	576	CY	\$29.00	\$16,704.00	\$68.00	\$39,168.00	\$22.50	\$12,960.00	\$40.00	\$23,040.00	\$27.84	\$16,035.84
Embankment(New Corridor Only)	4	CY	\$135.00	\$540.00	\$40.00	\$160.00	\$130.00	\$520.00	\$45.00	\$180.00	\$1,380.69	\$5,522.76
6" Type 1 Asphaltic Concrete	765	SY	\$37.00	\$28,305.00	\$35.00	\$26,775.00	\$39.00	\$29,835.00	\$35.00	\$26,775.00	\$35.80	\$27,387.00
9" Type AB-3 Aggregate Subbase	945	SY	\$13.50	\$12,757.50	\$16.00	\$15,120.00	\$10.74	\$10,149.30	\$21.00	\$19,845.00	\$14.47	\$13,674.15
4" Concrete Multi-Use Path	19	SY	\$68.25	\$1,296.75	\$75.00	\$1,425.00	\$67.83	\$1,288.77	\$100.00	\$1,900.00	\$53.45	\$1,015.55
Type CG-1 Curb & Gutter	540	LF	\$34.00	\$18,360.00	\$35.00	\$18,900.00	\$29.00	\$15,660.00	\$35.00	\$18,900.00	\$31.18	\$16,837.20
ADA Ramps	1	Each	\$2,257.00	\$2,257.00	\$1,500.00	\$1,500.00	\$1,700.00	\$1,700.00	\$2,300.00	\$2,300.00	\$2,727.98	\$2,727.98
Nyoplast 2'x2'x15" Curb Inlet	2	Each	\$2,110.00	\$4,220.00	\$4,150.00	\$8,300.00	\$2,925.00	\$5,850.00	\$2,600.00	\$5,200.00	\$3,727.87	\$7,455.74
15" HDPE End Section	1	Each	\$890.00	\$890.00	\$2,300.00	\$2,300.00	\$1,000.00	\$1,000.00	\$600.00	\$600.00	\$1,989.75	\$1,989.75
15" HDPE Storm Sewer	177	LF	\$41.00	\$7,257.00	\$58.00	\$10,266.00	\$72.00	\$12,744.00	\$75.00	\$13,275.00	\$45.65	\$8,080.05
Stone Rip-Rap	10	CY	\$124.00	\$1,240.00	\$335.00	\$3,350.00	\$141.00	\$1,410.00	\$85.00	\$850.00	\$183.72	\$1,837.20
4" White Striping(Parking Lot)	225	LF	\$1.30	\$292.50	\$1.00	\$225.00	\$1.40	\$315.00	\$4.00	\$900.00	\$1.34	\$301.50
ADA Accessible Parking Pavement Marking Symbol	1	Each	\$130.00	\$130.00	\$130.00	\$130.00	\$150.00	\$150.00	\$225.00	\$225.00	\$144.75	\$144.75
ADA Accessible Parking Sign Assembly	1	Each	\$520.00	\$520.00	\$355.00	\$355.00	\$460.00	\$460.00	\$500.00	\$500.00	\$389.71	\$389.71
Subtotal Add Alternate 2			Subtotal Add Alt 2	\$94,769.75	Subtotal Add Alt 2	\$127,974.00	Subtotal Add Alt 2	\$94,042.07	Subtotal Add Alt 2	\$114,490.00	Subtotal Add Alt 2	\$103,399.18
Total Base Bid+ Add Alt 1 + Add Alt 2			Total Bid	\$1,591,825.45	Total Bid	\$1,704,883.00	Total Bid	\$1,783,422.30	Total Bid	\$1,990,240.00	Total Bid	\$2,050,340.86