

19th & Barker Roundabout / Waterline Improvement
Project No. 56-CP12-901(C)
Cost Breakdown

Engineering Fees:

Original Contract	\$	71,861.00	
Additional Services	\$	8,744.00	
Waterline Contract	\$	17,500.00	
TOTAL			<u>\$ 98,105.00</u>

Right-of-Way / Easement Acquisitions	<u>\$ 36,331.00</u>
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Original Construction Contract:

Section 1-19th & Barker Roundabout	\$	266,845.65	
Section 2-17th & New Hampshire Roundabout	\$	26,469.45	
Section 3- Waterline Improvements	\$	184,378.00	
TOTAL			<u>\$ 477,693.10</u>

Change Order No. 1 (voided)	<u>\$ -</u>
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Change Order No. 2:

Section 1-19th & Barker Roundabout	<u>\$ 21,640.00</u>
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Change Order No. 3 (proposed):

Section 1-19th & Barker Roundabout	\$	6,636.20	
Section 1-Right-of-Way Agreements	\$	15,535.00	
Section 3-Waterline Improvements	\$	10,390.00	
TOTAL			<u>\$ 32,561.20</u>

Bid Item Quantity Overruns:

Section 1-19th & Barker Roundabout	\$	13,671.98	
Section 2-17th & New Hampshire Roundabout	\$	666.55	
Section 3-Waterline Improvements	\$	11,966.40	
TOTAL			<u>\$ 26,304.93</u>

Total Project Cost	<u><u>\$ 692,635.23</u></u>
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Total Roundabout Cost (Sections 1 & 2)	<u>\$ 468,400.83</u>
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Total Waterline Cost (Section 3)	<u>\$ 224,234.40</u>
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Project No. 56-CP12-901(C)
Barker Avenue, 16th to 22nd; 17th and New Hampshire
Roundabout, Pedestrian Island Improvements
Lawrence, Kansas

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	FINAL QTY	FINAL AMOUNT	OVER/UNDER RUN
	19th & BARKER ROUNDABOUT - SECTION 1							
1	Mobilization	L.S.	1	\$ 10,900.00	\$ 10,900.00	1	\$ 10,900.00	\$ -
2	Demolition and Site Preparation	L.S.	1	\$ 14,500.00	\$ 14,500.00	1	\$ 14,500.00	\$ -
3	Clearing and Grubbing	L.S.	1	\$ 2,000.00	\$ 2,000.00	1	\$ 2,000.00	\$ -
4	Unclassified Excavation	C.Y.	1,008	\$ 20.00	\$ 20,160.00	1008	\$ 20,160.00	\$ -
5	Embankment	C.Y.	167	\$ 10.00	\$ 1,670.00	167	\$ 1,670.00	\$ -
6	Island Curb	L.F.	272.2	\$ 8.00	\$ 2,177.60	272.2	\$ 2,177.60	\$ -
7	Doweled Curb	L.F.	621.1	\$ 8.00	\$ 4,968.80	382	\$ 3,056.00	\$ (1,912.80)
8	Curb and Gutter	L.F.	921.1	\$ 13.00	\$ 11,974.30	1517	\$ 19,721.00	\$ 7,746.70
9	Exposed Aggregate Concrete Pavement 6"	S.Y.	305.6	\$ 52.00	\$ 15,891.20	267.3	\$ 13,899.60	\$ (1,991.60)
10	Concrete Pavement 9" (Plain)	S.Y.	1,761.7	\$ 43.70	\$ 76,986.29	1790.7	\$ 78,253.59	\$ 1,267.30
11	Exposed Aggregate Concrete Pavement 9"	S.Y.	69.7	\$ 58.00	\$ 4,042.60	69.7	\$ 4,042.60	\$ -
12	6" High Early Concrete	S.Y.	123.9	\$ 39.60	\$ 4,906.44	351.6	\$ 13,923.36	\$ 9,016.92
13	9" Fly Ash Subgrade	S.Y.	1,921.9	\$ 4.00	\$ 7,687.60	1921.9	\$ 7,687.60	\$ -
14	2" Milling	S.Y.	144.3	\$ 20.00	\$ 2,886.00	184.3	\$ 3,686.00	\$ 800.00
15	Brick Pavers	S.Y.	15.9	\$ 240.00	\$ 3,816.00	14.8	\$ 3,552.00	\$ (264.00)
16	Curb Inlet - 5' x 4'	Each	2	\$ 2,200.00	\$ 4,400.00	2	\$ 4,400.00	\$ -
17	Junction Box - 7' x 4'	Each	1	\$ 2,400.00	\$ 2,400.00	1	\$ 2,400.00	\$ -
18	Manhole Adjustment	Each	1	\$ 450.00	\$ 450.00	2	\$ 900.00	\$ 450.00
19	Storm Sewer RCP 15"	L.F.	54.9	\$ 40.00	\$ 2,196.00	54.9	\$ 2,196.00	\$ -
20	Block Retaining Wall	S.F.	587	\$ 20.00	\$ 11,740.00	618.2	\$ 12,364.00	\$ 624.00
21	Concrete Steps	C.Y.	1.5	\$ 1,170.00	\$ 1,755.00	7.2	\$ 8,424.00	\$ 6,669.00
22	Sidewalk 4" Thick	S.Y.	341.4	\$ 33.30	\$ 11,368.62	407.6	\$ 13,573.08	\$ 2,204.46
23	Decorative Bollard	Each	19	\$ 650.00	\$ 12,350.00	0	\$ -	\$ (12,350.00)
24	Chain Link Fence 48"	L.F.	19.8	\$ 30.00	\$ 594.00	19.8	\$ 594.00	\$ -

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ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	FINAL QTY	FINAL AMOUNT	OVER/UNDER RUN
25	4" Steel Conduit	L.F.	189	\$ 22.00	\$ 4,158.00	239	\$ 5,258.00	\$ 1,100.00
26	Street Lighting	L.S.	1		\$ -	0	\$ -	\$ -
27	Pavement Marking	L.S.	1	\$ 8,300.00	\$ 8,300.00	1	\$ 8,300.00	\$ -
28	Signing	L.S.	1	\$ 6,000.00	\$ 6,000.00	1	\$ 6,000.00	\$ -
29	Traffic Control	L.S.	1	\$ 10,380.00	\$ 10,380.00	1	\$ 10,380.00	\$ -
30	Seeding	L.S.	1	\$ 1,500.00	\$ 1,500.00	1	\$ 1,500.00	\$ -
31	Sodding	L.S.	1		\$ -	0	\$ -	\$ -
32	Monument Box	Each	1	\$ 850.00	\$ 850.00	1	\$ 850.00	\$ -
33	Contractor Construction Staking	L.S.	1	\$ 3,000.00	\$ 3,000.00	1	\$ 3,000.00	\$ -
34	Flowable Mortar	C.Y.	16.1	\$ 52.00	\$ 837.20	22.1	\$ 1,149.20	\$ 312.00
35	Island Modifications (C.O. #2)	L.S.	1	\$ 18,600.00		1	\$ 18,600.00	\$ 18,600.00
36	Concrete Barriers (C.O. #2)	L.S.	1	\$ 480.00		1	\$ 480.00	\$ 480.00
37	Additional Traffic Control (C.O. #2)	L.S.	1	\$ 2,020.00		1	\$ 2,020.00	\$ 2,020.00
38	Adjust Sanitary Manhole (C.O.#2)	Each	1	\$ 540.00		1	\$ 540.00	\$ 540.00
*39	Install 24" #4 Dowels (Proposed C.O.)	Each	480	\$ 2.00		480	\$ 960.00	\$ 960.00
*40	Joints Sealant (Proposed C.O.)	L.S.	1	\$ 2,981.00		1	\$ 2,981.00	\$ 2,981.00
*41	Retaining Wall Color (Proposed C.O.)	L.S.	1	\$ 450.00		1	\$ 450.00	\$ 450.00
*42	Barker Islands Pvmt. Mrkg. (Proposed C.O.)	L.S.	1	\$ 1,795.20		1	\$ 1,795.20	\$ 1,795.20
*43	Storm Sewer Modifications (Proposed C.O.)	L.S.	1	\$ 450.00		1	\$ 450.00	\$ 450.00
*44	Laundry Mat Improvements (Proposed C.O.)	L.S.	1	\$ 12,815.00		1	\$ 12,815.00	\$ 12,815.00
*45	Sauny Scott Improvements (Proposed C.O.)	L.S.	1	\$ 2,720.00		1	\$ 2,720.00	\$ 2,720.00
TOTAL SECTION 1					\$ 266,845.65		\$ 324,328.83	\$ 57,483.18

Project No. 56-CP12-901(C)
Barker Avenue, 16th to 22nd; 17th and New Hampshire
Roundabout, Pedestrian Island Improvements
Lawrence, Kansas

ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	FINAL QTY	FINAL AMOUNT	OVER/UNDER RUN
	17th AND NEW HAMPSHIRE MINI-ROUNDAABOUT - SECTION 2							
1	Mobilization	L.S.	1	\$ 500.00	\$ 500.00	1	\$ 500.00	\$ -
2	Demolition and Site Preparation	L.S.	1	\$ 5,500.00	\$ 5,500.00	1	\$ 5,500.00	\$ -
3	Clearing and Grubbing	L.S.	1	\$ 250.00	\$ 250.00	1	\$ 250.00	\$ -
4	Straight Curb	L.F.	59.7	\$ 26.00	\$ 1,552.20	60	\$ 1,560.00	\$ 7.80
5	Curb and Gutter	L.F.	145.5	\$ 13.50	\$ 1,964.25	152	\$ 2,052.00	\$ 87.75
6	Exposed Aggregate Concrete Pavement 5"	S.Y.	43.6	\$ 50.00	\$ 2,180.00	44	\$ 2,200.00	\$ 20.00
7	Concrete Pavement 7" (Reinforced)	S.Y.	86.6	\$ 40.00	\$ 3,464.00	103.8	\$ 4,152.00	\$ 688.00
8	2" Asphalt Pavement Surface	S.Y.	86.7	\$ 20.00	\$ 1,734.00	103.8	\$ 2,076.00	\$ 342.00
9	2" Milling	S.Y.	43.6	\$ 20.00	\$ 872.00	43.6	\$ 872.00	\$ -
10	Brick Pavers	S.Y.	10.7	\$ 190.00	\$ 2,033.00	5	\$ 950.00	\$ (1,083.00)
11	Modify Existing Curb Inlet to Junction Box	Each	1	\$ 1,000.00	\$ 1,000.00	1	\$ 1,000.00	\$ -
12	Sidewalk 4" Thick	S.Y.	26	\$ 40.00	\$ 1,040.00	41.1	\$ 1,644.00	\$ 604.00
13	Signing	L.S.	1	\$ 1,870.00	\$ 1,870.00	1	\$ 1,870.00	\$ -
14	Traffic Control	L.S.	1	Include in Item 29, Section 1				\$ -
15	Seeding	L.S.	1	\$ 350.00	\$ 350.00	1	\$ 350.00	\$ -
16	Sodding	L.S.	1		\$ -	0	\$ -	\$ -
17	Contractor Construction Staking	L.S.	1	\$ 900.00	\$ 900.00	1	\$ 900.00	\$ -
18	Relocate Existing Fire Hydrant Assembly	Each	1	\$ 700.00	\$ 700.00	1	\$ 700.00	\$ -
19	Replace Existing Valve Box with Ametek Type	Each	2	\$ 280.00	\$ 560.00	2	\$ 560.00	\$ -
			TOTAL SECTION 2		\$ 26,469.45		\$ 27,136.00	\$ 666.55
	WATERLINE - SECTION 3							
1	8" D.I.P. Waterline	L.F.	1,464.5	\$ 56.00	\$ 82,012.00	1464.5	\$ 82,012.00	\$ -
2	8" 11 1/4° Bend	Each	4	\$ 170.00	\$ 680.00	4	\$ 680.00	\$ -
3	8" Gate Valve	Each	6	\$ 570.00	\$ 3,420.00	6	\$ 3,420.00	\$ -
4	8" Cross	Each	2	\$ 250.00	\$ 500.00	2	\$ 500.00	\$ -
5	8" Cast Iron Plug	Each	1	\$ 240.00	\$ 240.00	1	\$ 240.00	\$ -

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ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT	FINAL QTY	FINAL AMOUNT	OVER/UNDER RUN
6	Water Meter	Each	31	\$ 500.00	\$ 15,500.00	31	\$ 15,500.00	\$ -
7	3/4" Service Connection	L.F.	535	\$ 30.00	\$ 16,050.00	535	\$ 16,050.00	\$ -
8	Connect to Existing Waterline	Each	6	\$ 1,150.00	\$ 6,900.00	6	\$ 6,900.00	\$ -
9	Relocate Fire Hydrant	Each	1	\$ 620.00	\$ 620.00	1	\$ 620.00	\$ -
10	Water Valve Box Adjustment	Each	2	\$ 100.00	\$ 200.00	2	\$ 200.00	\$ -
11	Sidewalk and Pavement Replacement	S.Y.	858	\$ 36.00	\$ 30,888.00	1190.4	\$ 42,854.40	\$ 11,966.40
12	Roundabout Irrigation Hydrant	L.S.	1	\$ 900.00	\$ 900.00	1	\$ 900.00	\$ -
13	Flowable Mortar	C.Y.	509	\$ 52.00	\$ 26,468.00	509	\$ 26,468.00	\$ -
14	Paver Block Out (C.O.#2)	Each	1	\$ 250.00		0	\$ -	\$ -
*15	Water Meter Lids (Proposed C.O.)	L.S.	1	\$ 737.50		1	\$ 737.50	\$ 737.50
*16	Additional Demolition(Proposed C.O.)	L.S.	1	\$ 9,652.50		1	\$ 9,652.50	\$ 9,652.50
TOTAL SECTION 3					\$ 184,378.00		\$ 206,734.40	\$ 22,356.40
GRAND TOTAL OF ALL SECTIONS					\$ 477,693.10		\$ 558,199.23	\$ 80,506.13

* *Proposed C.O.*

19th & Barker Roundabout
Project No. 56-CP12-901(C)
Additional Work / Change Order No. 2

Section 1 Item #35	<u>Island Noses</u> This work shall include the construction of 12 each mountable island noses, pavement markings and delineator signs for the 6 proposed islands on Barker Ave.	\$ 18,600.00
Section 1 Item #36	<u>Concrete Barriers</u> This price shall include the installation and removal of concrete barriers on Johnson Dr. as directed by the City.	\$ 480.00
Section 1 Item #37	<u>Additional Traffic Control</u> Add 8 each Type III Barricades with 4 each "Road Closed To Through Traffic" signs on Forrest Ave. and Johnson Ave. as directed by the City.	\$ 2,020.00
Section 1 Item #38	<u>Adjust Sanitary Manhole</u> This work shall include lowering and installing a new flat top to the existing brick manhole and adjusting the new ring and cover to the proposed street elevation. This manhole was not shown on the plans.	\$ 540.00
<u>TOTAL</u>		\$ 21,640.00

Section 3 Item #15	<u>Water Meter Lids for meters in sidewalk</u> Price reflects the difference between the standard lids as shown on the plans and the special lids required by the Water Dept.	\$	737.50
Section 3 Item # 16	<u>Additional Demolition</u> This reflects the removal and regrading of the drive-ways replaced due to the steep grades created when the waterline was installed. 3861 s.f. @ \$2.50/s.f.	\$	9,652.50
Section 1 Item #39	<u>Install 24" #4 Dowels</u> Plans did not show any dowels tying the curb and gutter to the 9" pavement. Contractor install 480ea, 24" # 4 bars at \$2.00 ea. as directed by the City.	\$	960.00
Section 1 Item #40	<u>Joint Sealant</u> The plans did not call out for the joints in the 9" concrete pavement to be sealed. The price reflects the cost to seal those joints with a Hot Type Joint Sealant	\$	2,981.00
Section 1 Item #41	<u>Retaining Wall Color</u> Color of the retaining wall block was not specified in the plans. The City decided on a Buff color which was an additional cost over the basic concrete color	\$	450.00
Section 1 Item # 42	<u>Barker St. Median Islands Pavement Marking</u> Per the City's direction the pavement markings to the Barker Islands were extended further than the original proposal. The amount reflects 690 l.f. of 4" yellow preformed plastic @ \$2.20 per l.f. and 42 l.f. 6" yellow preformed plastic @ \$6.60 per l.f.	\$	1,795.20
Section 1 Item #43	<u>Storm Sewer Modifications</u> Due to the existing flow line elevations being lower than shown on the plans the proposed storm sewer junction box @ sta. 11+28 had to be modified to fit existing conditions.	\$	450.00
Section 1 Item # 44	<u>Laundry Mat Improvements</u> Improvments to the laundry mat @ 1900 Baker per agreement with the City Remove Tree \$ 1,760.00 Survey and Design \$ 1,100.00 Grading and Backfill \$ 3,550.00 Asphalt Base (59 tons @ \$60.00 per) \$ 3,540.00 Asphalt Surface (42 tons @ \$68.00 per) \$ 2,865.00	\$	12,815.00
Section 1 Item #45	<u>Sauney Scott Improvements</u> Improvements to Sauney Scott's property per agreement with the City Clear Trees \$ 350.00 Excavation and Backfill \$ 1,870.00 Handrail \$ 500.00	\$	2,720.00
TOTAL		\$	32,561.20