

April 24, 2006

Chris Stewart
Department of Utilities
720 W. 3rd Street
Lawrence, KS 66044

Re: 2006 Waterline Improvements
City Project No. 2WL-124
05-274L

Dear Chris:

The bid letting for the 2006 Waterline Improvements was conducted April 11, 2006. One (1) bid was received from Nowak Construction. The engineer's estimate was \$1,611,299.70. Nowak Construction submitted the low bid in the amount of \$1,599,584.74.

Nowak Construction was the contractor for the 2005 Downtown Waterline Improvements Project. Nowak Construction is an experienced waterline contractor and has recent experience successfully working in Downtown Lawrence, KS. Their references also include work in Downtown Wichita, KS. We feel they are qualified to complete this work.

We recommend award of the contract to Nowak Construction in the base bid amount of \$1,599,584.74. Please find attached the bid tabulations for this project. If you have any questions or need additional information, please call.

Sincerely,

BG CONSULTANTS, INC.



Brian P. Kingsley, P.E.
Project Engineer

BPK/ts



Also

Manhattan, KS. • Hutchinson, KS • Emporia, KS

2006 Downtown Waterline Improvements
Engineer's Estimate
City of Lawrence, Kansas
City Project No. 2WL-124
April 11, 2006
Bid Tabulations
05-274L

Item	Description	Qty	Unit	Engineer's Estimate		Nowak Construction	
				Unit Price	Amount	Unit Price	Amount
1.	12" Ductile Iron Waterline (Class 52)(In Place)	23	L.F.	\$ 300.00	\$ 6,900.00	\$ 216.00	\$ 4,968.00
2.	8" Ductile Iron Waterline (Class 52)(In Place)	2,538	L.F.	\$ 175.00	\$ 444,150.00	\$ 165.00	\$ 418,770.00
3.	6" Ductile Iron Waterline (Class 52)(In Place)	107	L.F.	\$ 115.00	\$ 12,305.00	\$ 175.00	\$ 18,725.00
4.	4" Ductile Iron Waterline (Class 52)(In Place)	27	L.F.	\$ 115.00	\$ 3,105.00	\$ 170.00	\$ 4,590.00
5.	Uncased Bore (Auger Bore Only)	94	L.F.	\$ 110.00	\$ 10,340.00	\$ 250.00	\$ 23,500.00
6.	8" Tapping Valve	4	Each	\$ 4,000.00	\$ 16,000.00	\$ 3,300.00	\$ 13,200.00
7.	12" M.J. Gate Valve	1	Each	\$ 1,785.00	\$ 1,785.00	\$ 3,200.00	\$ 3,200.00
8.	8" M.J. Gate Valve	9	Each	\$ 1,040.00	\$ 9,360.00	\$ 1,250.00	\$ 11,250.00
9.	6" M.J. Gate Valve	3	Each	\$ 790.00	\$ 2,370.00	\$ 1,100.00	\$ 3,300.00
10.	4" M.J. Gate Valve	2	Each	\$ 600.00	\$ 1,200.00	\$ 850.00	\$ 1,700.00
11.	Std. Fire Hydrant Setting	7	Each	\$ 2,780.00	\$ 19,460.00	\$ 4,900.00	\$ 34,300.00
12.	Remove Existing Fire Hydrant	4	Each	\$ 630.00	\$ 2,520.00	\$ 650.00	\$ 2,600.00
13.	Connect to Existing Waterline	8	Each	\$ 2,650.00	\$ 21,200.00	\$ 3,800.00	\$ 30,400.00
14.	Disconnect Existing Waterline	3	Each	\$ 1,625.00	\$ 4,875.00	\$ 1,200.00	\$ 3,600.00
15.	Connect to Existing Fireline	4	Each	\$ 2,155.00	\$ 8,620.00	\$ 2,300.00	\$ 9,200.00
16.	3/4" Short Service Line	52	Each	\$ 750.00	\$ 39,000.00	\$ 925.00	\$ 48,100.00
17.	3/4" Long Service Line	6	Each	\$ 2,260.00	\$ 13,560.00	\$ 1,750.00	\$ 10,500.00
18.	1" Short Service Line	12	Each	\$ 866.00	\$ 10,392.00	\$ 925.00	\$ 11,100.00
19.	1" Long Service Line	18	Each	\$ 2,625.00	\$ 47,250.00	\$ 1,850.00	\$ 33,300.00
20.	1 1/2" Short Service Line	1	Each	\$ 1,340.00	\$ 1,340.00	\$ 1,200.00	\$ 1,200.00
21.	1 1/2" Long Service Line	2	Each	\$ 3,150.00	\$ 6,300.00	\$ 2,150.00	\$ 4,300.00
22.	2" Short Service Line	3	Each	\$ 1,785.00	\$ 5,355.00	\$ 1,450.00	\$ 4,350.00
23.	3/4" Curb Stop Valve with Valve Box & Lid	6	Each	\$ 600.00	\$ 3,600.00	\$ 525.00	\$ 3,150.00
24.	1" Curb Stop Valve with Valve Box & Lid	6	Each	\$ 790.00	\$ 4,740.00	\$ 650.00	\$ 3,900.00
25.	1 1/2" Curb Stop Valve with Valve Box & Lid	2	Each	\$ 900.00	\$ 1,800.00	\$ 800.00	\$ 1,600.00
26.	Connect to Existing Water Service	80	Each	\$ 185.00	\$ 14,800.00	\$ 400.00	\$ 32,000.00
27.	Disconnect Existing Water Service	3	Each	\$ 240.00	\$ 720.00	\$ 375.00	\$ 1,125.00
28.	New Meter Tile	15	Each	\$ 370.00	\$ 5,550.00	\$ 175.00	\$ 2,625.00
29.	New Meter Setter	15	Each	\$ 265.00	\$ 3,975.00	\$ 150.00	\$ 2,250.00
30.	New Ring/Lid	16	Each	\$ 200.00	\$ 3,200.00	\$ 185.00	\$ 2,960.00
31.	No. 2 Total Eclipse Hydrant (1" inlet/1" outlet)	15	Each	\$ 1,420.00	\$ 21,300.00	\$ 825.00	\$ 12,375.00
32.	Pavement Patch	1,326.8	S.Y.	\$ 66.00	\$ 87,568.80	\$ 65.00	\$ 86,242.00
33.	Remove and Replace Concrete Pavement (6" min.)(Reinf.)(A.E.)	103.8	S.Y.	\$ 74.00	\$ 7,681.20	\$ 76.00	\$ 7,888.80
34.	Remove and Replace Concrete Sidewalk (A.E.)(4" min.)	43.9	S.Y.	\$ 60.00	\$ 2,634.00	\$ 46.00	\$ 2,019.40
35.	Remove and Replace Brick Sidewalk	442.7	S.F.	\$ 37.00	\$ 16,379.90	\$ 50.00	\$ 22,135.00
36.	Remove and Replace Curb and Gutter (A.E.)	90	L.F.	\$ 29.00	\$ 2,610.00	\$ 38.00	\$ 3,420.00
37.	Remove and Replace Asphalt Surfacing	0	S.Y.	\$ 90.00	\$ -	\$ -	\$ -
38.	Construction Staking	1	L.S.	\$ 4,100.00	\$ 4,100.00	\$ 5,000.00	\$ 5,000.00
39.	Mobilization	1	L.S.	\$ 25,250.00	\$ 25,250.00	\$ 25,000.00	\$ 25,000.00
40.	Traffic Control	1	L.S.	\$ 30,000.00	\$ 30,000.00	\$ 49,000.00	\$ 49,000.00
41.	Pedestrian Traffic Control	1	L.S.	\$ 21,100.00	\$ 21,100.00	\$ 19,000.00	\$ 19,000.00
42.	Storm Water Pollution Prevention	1	L.S.	\$ 4,750.00	\$ 4,750.00	\$ 15,000.00	\$ 15,000.00
43.	Unclassified Excavation	76	C.Y.	\$ 21.00	\$ 1,596.00	\$ 25.00	\$ 1,900.00
44.	Milling (±2")	8,933	S.Y.	\$ 8.00	\$ 71,464.00	\$ 2.15	\$ 19,205.95
45.	6" Combined Material (AB-3)	152.6	S.Y.	\$ 10.00	\$ 1,526.00	\$ 27.00	\$ 4,120.20
46.	Concrete (Grade 4.0)(Reinf.)(A.E.)	32.1	C.Y.	\$ 445.00	\$ 14,284.50	\$ 145.00	\$ 4,654.50
47.	5" Stamped, Colored Concrete (Reinf.)(A.E.)	135.5	S.Y.	\$ 127.00	\$ 17,208.50	\$ 148.00	\$ 20,054.00
48.	Asphalt Overlay (BM-2, Special)(±2")	1,117	Tons	\$ 69.00	\$ 77,073.00	\$ 56.00	\$ 62,552.00
49.	Petrotac (2' wide)	2,473	L.F.	\$ 3.50	\$ 8,655.50	\$ 2.13	\$ 5,267.49
50.	Remove and Replace Access Ramp	16	Each	\$ 2,015.00	\$ 32,240.00	\$ 900.00	\$ 14,400.00
51.	Remove and Replace Curb and Gutter (A.E.)	190	L.F.	\$ 30.00	\$ 5,700.00	\$ 35.00	\$ 6,650.00
52.	Pavement Marking (Preformed Thermoplastic)(White)(6")	1,446	L.F.	\$ 2.55	\$ 3,687.30	\$ 3.10	\$ 4,482.60
53.	Pavement Marking (Preformed Thermoplastic)(White)(24")	334	L.F.	\$ 11.50	\$ 3,841.00	\$ 14.50	\$ 4,843.00
54.	Pavement Marking (Preformed Thermoplastic)(White)(36")	234	L.F.	\$ 19.00	\$ 4,446.00	\$ 19.00	\$ 4,446.00
55.	Pavement Marking (Preformed Thermoplastic)(Yellow)(4")	3,198	L.F.	\$ 2.00	\$ 6,396.00	\$ 2.10	\$ 6,715.80
56.	Pavement Marking Symbol (White)(Left-Turn Arrow)	4	Each	\$ 214.00	\$ 856.00	\$ 315.00	\$ 1,260.00
57.	Electrical Service Upgrade (7th to 8th)	1	L.S.	\$ 58,000.00	\$ 58,000.00	\$ 105,770.00	\$ 105,770.00
58.	Electrical Service Upgrade (8th to 9th)	1	L.S.	\$ 58,000.00	\$ 58,000.00	\$ 105,770.00	\$ 105,770.00
59.	Planter Bed Receptacle Installation (7th to 8th)	1	L.S.	\$ 148,590.00	\$ 148,590.00	\$ 117,325.00	\$ 117,325.00
60.	Planter Bed Receptacle Installation (8th to 9th)	1	L.S.	\$ 148,590.00	\$ 148,590.00	\$ 117,325.00	\$ 117,325.00
GRAND TOTAL					\$ 1,611,299.70		\$ 1,599,584.74

Waterline Construction Total = \$939,158.80
Street Reconstruction Total = \$160,551.54
Electrical Construction Total = \$446,190.00
Parks & Rec. Construction Total = \$53,684.40

April 24, 2006

Chris Stewart
Department of Utilities
720 W. 3rd Street
Lawrence, KS 66044

Re: 2006 Waterline Improvements
City Project No. 2WL-124
05-274L

Dear Chris:

The purpose of this letter is to summarize construction sequencing options available for the 2006 Downtown Lawrence Waterline Improvements Project. This construction project will include waterline and electrical installation followed by asphalt milling and resurfacing on Massachusetts Street from 7th Street to 9th Street.

The as-bid construction documents require the work to be completed in 5 phases. The waterline and electrical installation would be constructed in 4 phases (one side of one block per phase) and the 5th phase would include the street mill and overlay. The contract allows 26 working days each for phases 1 to 4 (waterline installation) and 12 working days for phase 5 (street mill and overlay) totaling 116 working days.

On April 14, 2006 a meeting was conducted in Arensberg Shoes Store to discuss the construction phasing for the project. Downtown business owners present requested that the City, Engineer and Contractor quantify options available for construction phasing to reduce the duration of construction. A summary of the options provided by the contractor is included in table form on the following page. We have also attached a copy of the letter from the contractor summarizing the options offered for consideration.

We look forward to reviewing this information with you and the Downtown Business Owners at your request. If you have any questions or need additional information, please call.

Sincerely,

BG CONSULTANTS, INC.



Brian P. Kingsley, P.E.
Project Engineer

BPK/ts



Proposed Construction Sequencing Options
2006 Downtown Lawrence Waterline Improvements

	<u>As-Bid</u>	<u>Option 1</u>	<u>Option 2</u>	<u>Option 3</u>
<u>Waterline Construction Phasing</u>	- 4 Phases. - One side of one block per phase.	- 2 Phases. - Both sides of one block per phase.	- 2 Phases. - One side of two blocks per phase.	- 1 Phase. - Both sides of two blocks per phase.
<u>Construction Duration</u>	- 26 days per phase. - 104 days water. - 116 days total.	- 28 days per phase. - 56 days water. - 68 days total.	- 35 days per phase. - 70 days water. - 82 days total.	- 54 days per phase. - 54 days water. - 66 days total.
<u>* Projected Completion</u>	- Projected date of Completion October 11, 2006	- Projected date of Completion August 28, 2006	- Projected Completion Sept. 18, 2006	- Projected Completion August 24, 2006
<u>Change in Cost</u>	\$ -0-	\$ -0-	\$ -0-	\$ -0-
<u>Pros/cons</u>	- Longest overall project duration. - Parking allowed opposite side of construction. - One-way traffic maintained during construction.	- Each block closed for 28 days. - No opposite side parking during construction. - No thru traffic during construction.	- 35 day construction duration in front of each business. - Parking allowed opposite side of construction. - One-way traffic maintained during construction.	- Shortest overall project duration. - Each block closed for 54 days. - No opposite side parking during construction. - No thru traffic during construction.

* Note: Construction Duration and Projected Completion are based upon working days and do not include days the contractor is unable to work due to weather or unforeseen construction issues. The contractor has requested that work hours on the project be revised to Monday 9:00 AM to 8:00 PM, Tuesday – Thursday 6:30 AM to 8:00 PM Friday 6:30 AM to 3:00 PM. Work hours included in the project specifications set work hours from 7:00 AM to 5:30 PM Monday – Saturday.