

ENGINEER'S OPINION OF PROBABLE CONSTRUCTION COST



100% - Water Main Replacement Cost Estimate

Client:

City of Olathe, KS

Project:

On-Call Waterline Replacement East Sunvale Drive and East Sleepy Hollow Drive

Date: 3/10/2025

Project Number:

022-03699

Item No.	Item	Quantity	Unit	Unit Cost \$	Total Cost \$
Water Main Replacement					
1	Mobilization	1	LS	\$ 150,000	\$ 150,000
2	Traffic Control	1	LS	\$ 30,000	\$ 30,000
3	Construction Staking	1	LS	\$ 15,000	\$ 15,000
4	Clearing & Grubbing	1	LS	\$ 5,500	\$ 5,500
5	Remove Fire Hydrant Assembly	9	EA	\$ 1,100	\$ 9,900
6	Open Trench 6" Pipe	6	LF	\$ 171	\$ 963
7	Open Trench 8" Pipe (PIPE PROVIDED)	599	LF	\$ 207	\$ 123,621
8	Open Trench 12" Pipe (PIPE PROVIDED)	624	LF	\$ 213	\$ 132,524
9	Pipe Burst 8" Pipe	4610	LF	\$ 100	\$ 461,032
10	Auger Bore 8" Pipe	202	LF	\$ 250	\$ 50,463
11	8" 11.25 Degree Bend	4	EA	\$ 600	\$ 2,400
12	8" 22.5 Degree Bend	4	EA	\$ 700	\$ 2,800
13	8" 45 Degree Bend	15	EA	\$ 1,210	\$ 18,150
14	8" 90 Degree Bend	2	EA	\$ 400	\$ 800
15	12" 45 Degree Bend	3	EA	\$ 1,650	\$ 4,950
16	8" Cross	1	EA	\$ 1,000	\$ 1,000
17	8" Tee	5	EA	\$ 1,056	\$ 5,280
18	8"x6" Tee	10	EA	\$ 1,540	\$ 15,400
19	12"x8" Tee	3	EA	\$ 2,200	\$ 6,600
20	8" Restrained Cap	1	EA	\$ 500	\$ 500
21	8"x6" Reducer	5	EA	\$ 693	\$ 3,465
22	12"x8" Reducer	1	EA	\$ 1,320	\$ 1,320
23	Install 8" Gate Valve	16	EA	\$ 3,200	\$ 51,200
24	Install 12" Gate Valve	3	EA	\$ 4,800	\$ 14,400
25	6" Solid Sleeve	5	EA	\$ 990	\$ 4,950
26	8" Solid Sleeve	1	EA	\$ 1,100	\$ 1,100
27	Temporary Flushing Assembly	11	EA	\$ 500	\$ 5,500
28	Install Fire Hydrant Assembly	9	EA	\$ 12,000	\$ 108,000
29	Install 3/4" Type K Copper Service Line	3800	LF	\$ 80	\$ 304,000
30	Water Meter	109	EA	\$ 1,300	\$ 141,700
31	Connection to Existing Pipe	5	EA	\$ 20,000	\$ 100,000
32	Abandon Existing Water Main	4	EA	\$ 1,200	\$ 4,800
33	Install Straddle Block	14	EA	\$ 3,000	\$ 42,000
34	Remove & Replace Asphalt Pavement	747	SY	\$ 110	\$ 82,170
35	Remove & Replace Concrete Sidewalk	1600	SY	\$ 77	\$ 123,200
36	Install Type I Sidewalk Ramp	6	EA	\$ 2,200	\$ 13,200
37	Install Type II Sidewalk Ramp	9	EA	\$ 2,200	\$ 19,800
38	Remove & Replace Residential Drive	825	SY	\$ 110	\$ 90,750
39	Remove & Replace Concrete Curb & Gutter	150	LF	\$ 55	\$ 8,250
40	Sodding	3500	SY	\$ 15	\$ 52,500
41	Owner's Allowance	1	LS	\$ 100,000	\$ 100,000

Total Construction Cost

\$2,309,187

The Engineer, using his or her professional judgment, has developed this stated Opinion of Probable Construction Cost based upon the design status identified above. Development of this Opinion has included consideration of design input level; however, the circumstances under which the work is expected to be undertaken, the cost and availability of materials, labor and services, probable bidder response and the economic conditions at the time of bid solicitation are beyond the control of the Engineer and will impact actual bid costs. Should bidding be delayed, these costs should be reviewed and, if necessary, adjusted to a more applicable *Engineering News Record* Construction Cost Index.



AFFIDAVIT OF ESTIMATE OF COST

STATE OF KANSAS)
) ss.
COUNTY OF JOHNSON)

Nate Baldwin, P.E., of lawful age, being first duly sworn upon his oath,
states:

1. I am the City Engineer for the City of Olathe, Kansas.
2. The attached detailed estimate of the cost for the Sheridan Bridge V Waterline Improvements Project, PN 5-R-002-24 is attached and I am providing the estimate of the cost under oath (Exhibit D).

Nate Baldwin
Nate Baldwin

Subscribed in my presence and sworn under oath before me this 1st
day of July, 2025.

Stephani C. Stark
Notary Public

My Appointment Expires

August 19, 2028

