



# Howells and Baird, Inc.

CIVIL ENGINEERS AND SURVEYORS

1156 East State Street | Salem, Ohio 44460

PHONE: 330-332-4834

FAX: 330-332-4058

EMAIL: howbaird@howbaird.com

WEB: www.howbaird.com

Project: COL-SR14-9.02 - State Route 14 Widening

Owner: City of Salem

OPINION OF PROBABLE CONSTRUCTION COST

Date: January 23, 2026

Ref. No.	Item No.	Item Description	Unit	Quantity	Labor & Material Unit Price	Bid Amount
		<b>Roadway</b>				
1	201 11000	Clearing & Grubbing	Lump	1	\$30,000.00	\$30,000.00
2	202 23000	Pavement Removed	SY	247	\$30.00	\$7,410.00
3	202 98100	Removal Misc.: 40" Ø Rock Removed	Each	1	\$500.00	\$500.00
4	202 98100	Removal Misc.: Wood Post Removed & Replaced	Each	1	\$100.00	\$100.00
5	202 98200	Removal Misc.: Wood Wall Removed	LF	12	\$50.00	\$600.00
6	202 69050350	Removal Misc.: Mailbox Removed and Reset	Each	5	\$300.00	\$1,500.00
7	202 30000	Walk Removed	SF	20	\$20.00	\$400.00
8	202 32000	Curb Removed	LF	241	\$10.00	\$2,410.00
9	202 32500	Curb and Gutter Removed	LF	413	\$12.00	\$4,956.00
10	202 35100	Pipe Removed, Under 24" Diameter and Under	LF	515	\$25.00	\$12,875.00
11	202 58100	Catch Basin Removed	Each	10	\$500.00	\$5,000.00
12	203 10000	Excavation	CY	783	\$40.00	\$31,320.00
13	203 20000	Embankment	CY	839	\$35.00	\$29,365.00
14	204 10000	Subgrade Compaction	SY	4006	\$4.00	\$16,024.00
15	204 45000	Proof Rolling	Hour	5	\$300.00	\$1,500.00
		<b>Drainage</b>				
16	602 20000	Concrete Masonry	CY	0.2	\$4,000.00	\$800.00
17	605 11100	6" Shallow Pipe Underdrain	LF	1882	\$25.00	\$47,050.00
18	611 00900	6" Conduit, Type B	FT	60	\$50.00	\$3,000.00
19	611 04400	12" Conduit, Type "B" (707.33)	FT	505	\$100.00	\$50,500.00
20	611 04600	12" Conduit, Type "C" (707.33)	FT	111	\$90.00	\$9,990.00
21	611 07400	18" Conduit, Type "C" (707.33)	FT	4	\$150.00	\$600.00

Ref. No.	Item No.	Item Description	Unit	Quantity	Labor & Material Unit Price	Bid Amount
22	611 98150	Standard No. 3 Catch Basin	Each	1	\$6,500.00	\$6,500.00
23	611 98180	Standard No. 3A Catch Basin	Each	12	\$4,000.00	\$48,000.00
24	611 98470	Standard No. 2-2B Catch Basin	Each	7	\$2,750.00	\$19,250.00
25	611 98510	Standard No. 2-3 Catch Basin	Each	1	\$3,750.00	\$3,750.00
26	611 98630	Catch Basin Adjusted to Grade	Each	8	\$1,750.00	\$14,000.00
27	611 99900	Conduit Misc.: 24" x 24" x 24" Tee (707.33) w/(2) Lg. 24" Conduit & Masonry Collars	Each	1	\$2,750.00	\$2,750.00
28	611 99820	Miscellaneous Metal	LB	500	\$4.00	\$2,000.00
		<b>Pavement</b>				
29	254 01000	Pavement Planing, Asphalt Concrete(T=3")	SY	7214	\$5.00	\$36,070.00
30	254 01001	Pavement Planing, Asphalt Concrete (T=1.5"), As Per Plan	SY	140	\$7.50	\$1,050.00
31	301 56000	8" Asphalt Concrete Base, PG64-22 (449)	CY	292	\$300.00	\$87,600.00
32	304 20000	4" Aggregate Base	CY	115	\$100.00	\$11,500.00
33	304 20000	6" Aggregate Base	CY	372	\$90.00	\$33,480.00
34	304 20000	8" Aggregate Base	CY	111	\$90.00	\$9,990.00
35	407 10000	Tack Coat, Applied at Rate of 0.04 Gal./S.F.	Gal.	325	\$4.00	\$1,300.00
36	441 70100	1-1/4" Asphalt Concrete Surface Course, Type 1, (449) PG70-22M	CY	288	\$250.00	\$72,000.00
37	441 70300	1-3/4" Asphalt Concrete Intermediate Course, Type 2, (449)	CY	372	\$250.00	\$93,000.00
38	441 70301	2-1/2" Asphalt Concrete Intermediate Course, Type 1, (449) (Driveways), As Per Plan	CY	31	\$600.00	\$18,600.00
39	602 97000	Masonry Misc.: Modular Block Wall	SF	920	\$65.00	\$59,800.00
40	602 98100	Masonry Misc.: Cap Unit w/42" (h) Handrailing (517.06)	FT	275	\$225.00	\$61,875.00
41	608 10000	4" Concrete Walk	SF	7938	\$11.00	\$87,318.00
42	608 52000	Curb Ramp, Type 2A	SF	685	\$25.00	\$17,125.00
43	609 12000	Combination Concrete Curb & Gutter, Type 2	LF	2158	\$37.50	\$80,925.00
		<b>Water Work</b>				
44	638 20046	6" Ductile Iron Waterline	FT	141	\$250.00	\$35,250.00
45	638 20536	6" Gate Valve	Each	1	\$4,000.00	\$4,000.00
46	638 20706	12" x 6" Tapping Sleeve & 6" Gate Valve	Each	2	\$9,000.00	\$18,000.00

Ref. No.	Item No.	Item Description	Unit	Quantity	Labor & Material Unit Price	Bid Amount
47	638 20750	6" Fire Hydrant	Each	1	\$8,000.00	\$8,000.00
48	638 20754	Fire Hydrant Removed & Reset	Each	1	\$5,000.00	\$5,000.00
49	638 20760	Fire Hydrant Removed and Disposed of	Each	1	\$1,500.00	\$1,500.00
50	638 20770	1" Type K Copper Service Waterline	FT	26	\$60.00	\$1,560.00
51	638 20778	2" Type K Copper Service Waterline	FT	323	\$120.00	\$38,760.00
52	638 98000	Water Work Misc.: Cut and Cap Existing 6" C.I. Waterline	Each	2	\$2,000.00	\$4,000.00
53	638 98000	Water Work Misc.: Cut and Cap Existing 8" C.I. Waterline	Each	1	\$2,500.00	\$2,500.00
54	638 98000	Water Work Misc.: 6"-90° Ductile Iron Anchor Elbow	Each	1	\$1,000.00	\$1,000.00
55	638 98000	Water Work Misc.: 6"-45° Ductile Iron Elbow	Each	2	\$750.00	\$1,500.00
56	638 98000	Water Work Misc.: 6"x 6"x 6" Ductile Iron Tee	Each	1	\$750.00	\$750.00
57	638 98000	Water Work Misc.: 6" Dresser Coupling	Each	1	\$1,000.00	\$1,000.00
58	638 98000	Water Work Misc.: 1" Tapping Saddle and Corporation Stop	Each	1	\$600.00	\$600.00
59	638 98000	Water Work Misc.: 2" Tapping Saddle and Corporation Stop	Each	6	\$1,000.00	\$6,000.00
60	638 98000	Water Work Misc.: Service Stop and Service Box	Each	6	\$600.00	\$3,600.00
		<b>Sanitary Sewer</b>				
61	202 35101	Pipe Removed 24" Diameter and Under, As Per Plan	FT	34	\$75.00	\$2,550.00
62	202 58000	Manhole Removed, Sanitary	Each	1	\$1,500.00	\$1,500.00
63	611 01801	8" Conduit, Type B (707.45), As Per Plan	Each	34	\$150.00	\$5,100.00
64	611 99575	Manhole No. 3, Sanitary, As Per Plan	Each	1	\$7,500.00	\$7,500.00
65	611 99654	Manhole, Adjust to Grade	Each	1	\$1,750.00	\$1,750.00
66	611 99901	Drainage Structure Misc.: Manhole Coring & Link Seal, As Per Plan	Each	1	\$8,000.00	\$8,000.00
		<b>Traffic Control</b>				
67	630 85100	Removal of ground Mounted Sign and Re-Erection	Each	6	\$100.00	\$600.00
68	646 10000	Edge Line 4"	Mile	0.5	\$8,000.00	\$4,000.00
69	646 10100	Lane Line 4"	Mile	0.04	\$7,500.00	\$300.00
70	646 10200	Center Line (Double Yellow)	Mile	0.2	\$10,000.00	\$2,000.00
71	646 10201	Center Line (Solid Single Yellow)	Mile	0.4	\$7,500.00	\$3,000.00

Ref. No.	Item No.	Item Description	Unit	Quantity	Labor & Material Unit Price	Bid Amount
72	646 10201	Center Line (Dashed Yellow)	Mile	0.4	\$6,000.00	\$2,400.00
73	646 10400	Stop Line	Foot	52	\$13.00	\$676.00
74	646 10510	Crosswalk Line 12"	Foot	194	\$12.50	\$2,425.00
75	646 10520	Crosswalk Line 24"	Foot	91	\$15.00	\$1,365.00
76	646 10601	Transverse/Diagonal Line (Yellow)	Foot	228	\$10.00	\$2,280.00
77	646 20300	Lane Arrow	Each	16	\$250.00	\$4,000.00
		<b>Maintenance of Traffic</b>				
78	614 11001	Maintaining Traffic, As Per Plan	Lump	1	\$150,000.00	\$150,000.00
79	614 11110	Law Enforcement Officer W/Patrol Car for Assistance	Hour	60	\$100.00	\$6,000.00
80	614 22000	Temporary Edge Line Class 1	Mile	0.52	\$4,000.00	\$2,080.00
81	616 10000	Water	M. Gal.	2	\$100.00	\$200.00
		<b>Incidentals</b>				
82	103 05000	Premium for Contract Performance and Payment Bond	Lump	1	\$30,000.00	\$30,000.00
83	619 16000	Field Office, Type A	Month	9	\$2,500.00	\$22,500.00
84	623 10000	Construction Layout Stakes and Surveying	Lump	1	\$30,000.00	\$30,000.00
85	624 10000	Mobilization	Lump	1	\$120,000.00	\$120,000.00
		<b>Erosion Control</b>				
86	659 00500	Seeding and Mulching, Class 1	SY	2524	\$4.00	\$10,096.00
87	659 20000	Commercial Fertilizer	Ton	0.23	\$1,500.00	\$345.00
88	659 31000	Lime	Acre	0.52	\$500.00	\$260.00
89	659 35000	Water	M. Gal.	6.8	\$50.00	\$340.00
90	832 30000	Erosion Control	Each	10000	\$1.00	\$10,000.00

**Total:** \$1,588,070.00

**Inflation:** \_\_\_\_\_

**Total:** \$1,588,070.00

Prepared By:

Jon D. Vollnogle, P.E. P.S

