

**Cost Estimate
CITY OF DOUGLAS**

***S. Downtown Streets and Alley Improvements (1.5 Alley, 2nd St, & 3rd Street)
July 1, 2024***

LS = Lump Sum	EA = Each	LF = Linear Feet	AC = Acre
SY = Square Yard	SF = Square Foot	CY = Cubic Yard	Ton = Ton

Schedule A - Water Main Replacement (2nd St - Elm to Oak, 3rd St - Center to Elm)					
Item	Description	Unit	Quantity	Unit Cost	Total Cost
1	Mobilization and Bonds	LS	1	\$23,000.00	\$23,000.00
2	12" Water Transmission Main	LF	550	\$70.00	\$38,500.00
3	12" Gate Valve	EA	4	\$3,500.00	\$14,000.00
4	12" Ductile Iron Fittings	EA	6	\$3,000.00	\$18,000.00
5	8" Water Transmission Main	LF	900	\$45.00	\$40,500.00
6	8" Gate Valves	EA	6	\$2,500.00	\$15,000.00
7	8" Ductile Iron Fittings	EA	10	\$1,500.00	\$15,000.00
8	6" Raw Water Irrigation	LF	300	\$70.00	\$21,000.00
9	BNSF permitting and Easement Negotiations	LS	1	\$10,000.00	\$10,000.00
10	Connect to Existing Main	EA	7	\$2,500.00	\$17,500.00
11	1" Water Services	EA	65	\$1,500.00	\$97,500.00
12	Fire Hydtant Assemblies	EA	5	\$7,000.00	\$35,000.00
13	Select Backfill	CY	800	\$35.00	\$28,000.00
14	Foundation Material	CY	100	\$55.00	\$5,500.00
15	Traffic Control	LS	1	\$20,000.00	\$20,000.00
16	4" PMP / 8" Grading "W" Base Course	SY	160	\$75.00	\$12,000.00
17	Steel bore and Casing - (Raw Water Line)	LS	1	\$60,000.00	\$60,000.00
Subtotal - Schedule A					\$470,500.00

Schedule B - Sanitary Sewer Replacement (1.5 Alley - Center to Elm)					
Item	Description	Unit	Quantity	Unit Cost	Total Cost
1	Mobilization and Bonds	LS	1	\$15,000.00	\$15,000.00
2	8" PVC Sanitary Sewer Main	LF	650	\$60.00	\$39,000.00
3	48" Diameter Manholes	EA	3	\$10,000.00	\$30,000.00
4	4" Sanitary Sewer Services	EA	8	\$1,500.00	\$12,000.00
5	Connect to Exisiting Main	EA	2	\$1,500.00	\$3,000.00
6	Select Backfill	CY	150	\$35.00	\$5,250.00
7	Foundation Material	CY	75	\$55.00	\$4,125.00
8	Traffic Control	LS	1	\$10,000.00	\$10,000.00
9	BNSF permitting and Easement Negotiations	LS	1	\$10,000.00	\$10,000.00
10	Steel bore and Casing	LS	1	\$60,000.00	\$60,000.00
Subtotal - Schedule B					\$188,375.00

Schedule C - Street Reconstruction [Street/Alley Reconstruction - 1.5 Alley (Center to Oak), 2nd and 3rd St (Oak to Elm) Street Reconstruction w/ Landscaping Improvements - 2nd and 3rd St (Center to Oak)]					
Item	Description	Unit	Quantity	Unit Cost	Total Cost
1	Mobilization and Bonds	LS	1	\$350,000.00	\$350,000.00
2	Demolition	SY	16000	\$5.00	\$80,000.00
3	Subgrade Repair	CY	450	\$115.00	\$51,750.00
4	Geotextile Fabric	SY	16000	\$7.00	\$112,000.00
5	Curb and Gutter Replacement	LF	3850	\$40.00	\$154,000.00
6	4-ft wide sidewalk replacement	LF	900	\$130.00	\$117,000.00
7	5-ft wide sidewalk replacement	LF	550	\$90.00	\$49,500.00
8	6-ft wide sidewalk replacement	LF	1325	\$90.00	\$119,250.00
9	10-ft wide sidewalk replacement	LF	475	\$150.00	\$71,250.00
10	Valley Gutter/Driveway Approaches/Alley Pans	SY	855	\$115.00	\$98,325.00
11	4" Asphalt / 8" Grading "W" Base Course	SY	15000	\$75.00	\$1,125,000.00
12	8" Asphalt / 8" Grading "W" Base Course (Trench Patch in Center)	SY	100	\$85.00	\$8,500.00
13	Storm Sewer rehabilitation (1.5 Alley Drainage)	LF	450	\$100.00	\$45,000.00
14	30" RCP Storm Sewer (2nd St)	LF	600	\$170.00	\$102,000.00
15	Storm Water Catch Basins	EA	7	\$3,300.00	\$23,100.00
16	60" Diameter Storm Sewer Manholes	EA	4	\$10,500.00	\$42,000.00
17	Storm Sewer rehabilitation	LF	450	\$100.00	\$45,000.00
18	Connect to Existing Storm	EA	1	\$5,000.00	\$5,000.00
19	ADA Ramps	EA	15	\$2,000.00	\$30,000.00
20	Raised ADA Ramps	SY	55	\$200.00	\$11,000.00
21	Amenities (litter receptacles, benches, etc)	LS	1	\$70,000.00	\$70,000.00
22	Landscaping	LS	1	\$200,000.00	\$200,000.00
23	Electrical Improvements	LS	1	\$600,000.00	\$600,000.00
24	Planter Seating Walls	LS	1	\$360,000.00	\$360,000.00
25	Irrigation System	LS	1	\$50,000.00	\$50,000.00
26	Traffic Control	LS	1	\$30,000.00	\$30,000.00
Subtotal - Schedule C					\$3,949,675.00

Subtotal - Schedule A	\$470,500.00
Subtotal - Schedule B	\$188,375.00
Subtotal - Schedule C	\$3,949,675.00
Total Construction Cost	\$4,608,550.00

15% Engineering Design & CA	\$691,282.50
15% Contingency	\$691,282.50
Total Project Cost Estimate	\$5,991,115.00