

APPENDIX “B”
Opinion of Probable Project Cost

**West "O" Street Trunk Sewer Extension
 Final Design Memorandum Cost Estimate**

SUMMARY OF PROJECT COSTS

TRUNK SEWER TO SEGMENT 5

Construction Cost Total	\$1,595,000
Right-of-Way Costs	\$173,000

SEGMENT 1

Construction Cost Total	\$414,000
Right-of-Way Costs	\$77,000

SEGMENT 2

Construction Cost Total	\$278,000
Right-of-Way Costs	\$20,000

SEGMENT 3

Construction Cost Total	\$730,000
Right-of-Way Costs	\$140,000

SEGMENT 4

Construction Cost Total	\$225,000
Right-of-Way Costs	\$3,000

SEGMENT 5

Construction Cost Total	\$93,000
Right-of-Way Costs	\$24,000

Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	20%	\$667,000
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TOTAL PROJECT COST	\$4,439,000
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PROJECT COST (TRUNK SEWER TO SEGMENT 5, SEGMENTS 3 & 5)

Construction Cost Total	\$2,418,000
Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	\$484,000
Right-of-Way Costs	\$337,000

TOTAL PROJECT COST (TRUNK SEWER TO SEGMENT 5, SEGMENTS 3 & 5)	\$3,239,000
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PROJECT COST (SEGMENT 1)

Construction Cost Total	\$414,000
Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	\$83,000
Right-of-Way Costs	\$77,000

TOTAL PROJECT COST (SEGMENT 1)	\$574,000
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PROJECT COST (SEGMENTS 2 & 4)

Construction Cost Total	\$503,000
Engineering, Legal, and Administrative Costs (Excludes ROW Costs)	\$101,000
Right-of-Way Costs	\$23,000

TOTAL PROJECT COST (SEGMENTS 2 & 4)	\$627,000
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TRUNK SEWER AND CONNECTIONS TO SUBBASIN SEWERS

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$126,000
36" Sewer Pipe	1,880	LF	\$162	\$305,000
30" Sewer Pipe	4,780	LF	\$135	\$645,000
24" Sewer Pipe	10	LF	\$108	\$1,000
Standard Manhole 4' Dia., 8' Deep or Less	14	EA	\$2,000	\$28,000
Standard and Drop Manhole Additional Depth	112	LF	\$250	\$28,000
5 Foot Average Dewatering Depth for Sewer	6,660	LF	\$25	\$167,000
Seeding	37,000	SY	\$0.40	\$15,000
Clearing	7,000	SY	\$2.00	\$14,000
Regrading	3,000	CY	\$10.00	\$30,000
Gravel Road Replacement	100	SY	\$15.00	\$2,000
48 Inch Casing Pipe for Crossing SW 40th Street	120	LF	\$216.00	\$26,000
Construction Cost Subtotal				\$1,387,000
Contingencies			15%	\$208,000
Construction Cost Total				\$1,595,000
Right-of-Way Costs				
Permanent Easement	266,800	SF	\$0.50	\$133,000
Temporary Construction Easement	400,200	SF	\$0.10	\$40,000
Right-of-Way Cost Subtotal				\$173,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-TRUNK SEWER				\$1,768,000

SEGMENT 1-EAST SUBBASIN SEWER TO I-80 R/W

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$33,000
15" Sewer Pipe	2,770	LF	\$60	\$166,000
24 Inch Tunnel West "O" Street near NW 42nd Street	170	LF	\$360	\$61,000
Standard Manhole 4' Dia., 8' Deep or Less	7	EA	\$2,000	\$14,000
Standard and Drop Manhole Additional Depth	42	LF	\$250	\$11,000
5 Foot Average Dewatering Depth for Sewer	2,770	LF	\$25	\$69,000
Seeding	14,000	SY	\$0.40	\$6,000
Construction Cost Subtotal				\$360,000
Contingencies			15%	\$54,000
Construction Cost Total				\$414,000
Right-of-Way Costs				
Permanent Easement	78,000	SF	\$0.75	\$59,000
Temporary Construction Easement	182,000	SF	\$0.10	\$18,000
Right-of-Way Cost Subtotal				\$77,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 1				\$491,000

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SEGMENT 2-EAST SUBBASIN SEWER UNDERCROSSING AND PROCEEDING NORTH OF INTERSTATE 80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$22,000
15" Sewer Pipe	400	LF	\$60	\$24,000
12" Sewer Pipe	900	LF	\$48	\$43,000
24 Inch Tunnel Interstate 80 near NW 42th Street	400	LF	\$360	\$144,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	12	LF	\$250	\$3,000
Seeding	5,000	SY	\$0.40	\$2,000
Construction Cost Subtotal				\$242,000
Contingencies			15%	\$36,000
Construction Cost Total				\$278,000
Right-of-Way Costs				
Permanent Easement	27,000	SF	\$0.50	\$14,000
Temporary Construction Easement	63,000	SF	\$0.10	\$6,000
Right-of-Way Cost Subtotal				\$20,000

CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 2 **\$298,000**

SEGMENT 3-MIDDLE SUBBASIN SEWER FROM TRUNK SEWER ACROSS "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$57,000
15" Sewer Pipe	3,830	LF	\$60	\$230,000
18" Sewer Pipe	1,040	LF	\$72	\$75,000
24 Inch Tunnel West "O" Street near NW 52nd Street	130	LF	\$360	\$47,000
Standard Manhole 4' Dia., 8' Deep or Less	10	EA	\$2,000	\$20,000
Standard and Drop Manhole Additional Depth	60	LF	\$250	\$15,000
3 Foot Average Dewatering Depth for Sewer	4,870	LF	\$15	\$73,000
Replace Asphalt Pavement	2,200	SY	\$45	\$99,000
Seeding	24,000	SY	\$0.40	\$10,000
Construction Cost Subtotal				\$626,000
Contingencies			15%	\$94,000
Construction Cost Total				\$730,000
Right-of-Way Costs				
Permanent Easement	142,200	SF	\$0.75	\$107,000
Temporary Construction Easement	331,800	SF	\$0.10	\$33,000
Right-of-Way Cost Subtotal				\$140,000

CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 3 **\$870,000**

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SEGMENT 4-MIDDLE SUBBASIN SEWER CROSSING OF INTERSTATE 80

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$18,000
15" Sewer Pipe	500	LF	\$60	\$30,000
24 Inch Tunnel Interstate 80 near NW 44th Street	400	LF	\$360	\$144,000
Standard Manhole 4' Dia., 8' Deep or Less	1	EA	\$2,000	\$2,000
Standard and Drop Manhole Additional Depth	6	LF	\$250	\$2,000
Seeding	1,000	SY	\$0.40	\$0
Construction Cost Subtotal				\$196,000
Contingencies			15%	\$29,000
Construction Cost Total				\$225,000
Right-of-Way Costs				
Permanent Easement	3,000	SF	\$0.50	\$2,000
Temporary Construction Easement	7,000	SF	\$0.10	\$1,000
Right-of-Way Cost Subtotal				\$3,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 4				\$228,000

SEGMENT 5-WEST SUBBASIN SEWER FROM TRUNK SEWER TO SOUTH OF "O" STREET

DESCRIPTION	<u>Quantity</u>	<u>Unit</u>	<u>Unit Cost</u>	<u>Total Cost</u>
General Requirements (10%)				\$7,000
15" Sewer Pipe	1,080	LF	\$60	\$65,000
Standard Manhole 4' Dia., 8' Deep or Less	2	EA	\$2,000	\$4,000
Standard and Drop Manhole Additional Depth	13	LF	\$250	\$3,000
Seeding	6,000	SY	\$0.40	\$2,000
Construction Cost Subtotal				\$81,000
Contingencies			15%	\$12,000
Construction Cost Total				\$93,000
Right-of-Way Costs				
Permanent Easement	32,400	SF	\$0.50	\$16,000
Temporary Construction Easement	75,600	SF	\$0.10	\$8,000
Right-of-Way Cost Subtotal				\$24,000
CONSTRUCTION AND RIGHT-OF-WAY COSTS-SEGMENT 5				\$117,000