

APPENDIX E

Intermediate-Speed, Three-Lane SR 28 Planning-Level Opinion of Cost

PLANNING LEVEL OPINION OF COST SUMMARY

Project Description: SR 28 Corridor Study	Client: Chelan-Douglas Transportation Council
Corridor Section: SR 28: 3rd ST SE - Batterman Rd, Rock Island Rd	Date: Aug-21
Location: Chelan-Douglas Transportation Council	Date of Cost Index: 2022
	Calculated By/Entered By: EB
	Checked By: KSW/CJW

Urban Concept

ITEM		UNIT	ESTIMATED COST	UNIT QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban undeveloped)	SF	\$8	-	\$0
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	-	\$0
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	8	\$120,000
	RIGHT OF WAY TOTAL				\$120,000
	FUTURE ROW COST BASED ON INFLATION RATE	Inflation 5%	ROW Year 2027	Cost Index 2022	Future Cost \$154,000
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
1.1	PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	53	\$265,000
	REMOVING EXISTING PAVEMENT	SY	\$15	90,000	\$1,350,000
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$250,000	1	\$250,000
1.2	EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$25	204,000	\$5,100,000
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	2,100	\$94,500
1.3	STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$10	1,347,000	\$13,470,000
1.4	STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,800	-	\$0
	CATCH BASIN TYPE 2	EA	\$5,000	-	\$0
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	-	\$0
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	-	\$0
2	STRUCTURE				
	RETAINING WALLS (MSE)	SF	\$75	141,900	\$10,642,500
3	SURFACING				
	HOT MIX ASPHALT	TON	\$80	68,200	\$5,456,000
	CRUSHED SURFACING	TON	\$35	221,200	\$7,742,000
4	ROADSIDE DEVELOPMENT				
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$907,000	1	\$907,000
5	TRAFFIC				
	TRAFFIC BARRIER	LF	\$300	-	\$0
	ILLUMINATION	LS	\$300,000	1	\$300,000
	SIGNING	LS	\$86,000	1	\$86,000
	STRIPING	LF	\$2	282,900	\$565,800
	CURBS	LF	\$45	-	\$0
	CURB RAMP	EA	\$8,000	-	\$0
	SIDEWALKS	SY	\$65	-	\$0
	TRAFFIC CONTROL (10%)	LS	\$4,533,000	1	\$4,533,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$907,000	1	\$907,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$51,668,800
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$5,166,900	1	\$5,166,900
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$56,835,700
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$56,835,700
13	CONTINGENCY (30% OF ITEM 12)	EST	\$17,050,800	1	\$17,050,800
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$73,886,500
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$143,984,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$11,083,000	1	\$11,083,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$3,694,400	1	\$3,694,400
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$20,794,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$11,083,000	1	\$11,083,000
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$3,694,400	1	\$3,694,400
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$140,000	1	\$140,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$17,269,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$182,201,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$183,000,000

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PLANNING LEVEL OPINION OF COST SUMMARY

Project Description: SR 28 Corridor Study	Client: Chelan-Douglas Transportation Council
Corridor Section: SR 28: 3rd ST SE - Batterman Rd, Rock Island Rd	Date: May-22
Location: Chelan-Douglas Transportation Council	Date of Cost Index: 2022
	Calculated By/Entered By: RLO
	Checked By: BMP

RIR E-W Widening Only

		ESTIMATED UNIT			
	ITEM	UNIT	COST	QTY	COST
I.	RIGHT OF WAY				
	RIGHT OF WAY (urban undeveloped)	SF	\$8	103,800	\$830,400
	TEMPORARY CONSTRUCTION EASEMENTS (urban undeveloped)	SF	\$2	418,800	\$837,600
	ADMINISTRATION (titles, appraisals, negotiations consultant, etc.)	EA	\$15,000	17	\$255,000
	RIGHT OF WAY TOTAL				\$1,923,000
	FUTURE ROW COST BASED ON INFLATION RATE	Inflation	ROW Year	Cost Index	Future Cost
		5%	2027	2022	\$2,455,000
II.	CONSTRUCTION				
1	PREPARATION/GRADING/DRAINAGE				
1.1	PREPARATION				
	CLEAR & GRUB, DEMO	ACRE	\$5,000	18	\$90,000
	REMOVING EXISTING PAVEMENT	SY	\$15	8,000	\$120,000
	REMOVAL STRUCTURES & OBSTRUCTIONS	LS	\$250,000	1	\$250,000
1.2	EARTHWORK				
	ROADWAY EXCAVATION INCL. HAUL	CY	\$25	25,000	\$625,000
	STRUCTURE EX. CL. A INCL. HAUL	CY	\$45	600	\$27,000
1.3	STORMWATER MITIGATION				
	DETENTION AND TREATMENT	SF	\$10	264,200	\$2,642,000
1.4	STORM SEWER				
	CATCH BASIN TYPE 1	EA	\$1,800	696	\$1,252,800
	CATCH BASIN TYPE 2	EA	\$5,000	174	\$870,000
	SCHEDULE A STORM SEWER PIPE 12 IN. DIAM.	LF	\$65	13,910	\$904,150
	SCHEDULE A STORM SEWER PIPE 18 IN. DIAM.	LF	\$85	69,520	\$5,909,200
2	STRUCTURE				
	RETAINING WALLS (MSE)	SF	\$75	17,500	\$1,312,500
3	SURFACING				
	HOT MIX ASPHALT	TON	\$80	8,200	\$656,000
	CRUSHED SURFACING	TON	\$35	46,400	\$1,624,000
4	ROADSIDE DEVELOPMENT				
	TEMP. WATER POLLUTION & EROSION CONTROL (2%)	LS	\$471,000	1	\$471,000
5	TRAFFIC				
	TRAFFIC BARRIER	LF	\$300	-	\$0
	ILLUMINATION	LS	\$0	1	\$0
	SIGNING	LS	\$67,000	1	\$67,000
	STRIPING	LF	\$2	151,900	\$303,800
	CURBS	LF	\$45	69,600	\$3,132,000
	CURB RAMP	EA	\$8,000	146	\$1,168,000
	SIDEWALKS	SY	\$65	39,600	\$2,574,000
	TRAFFIC CONTROL (10%)	LS	\$2,353,000	1	\$2,353,000

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6	OTHER ITEMS				
	SURVEYING (2%)	LS	\$471,000	1	\$471,000
	SPECIAL ITEMS	EST	\$0	1	\$0
	UTILITY RELOCATIONS	EST	\$0	1	\$0
7	SUBTOTAL (ITEMS 1 THRU 6)				\$26,822,450
8	MOBILIZATION (10%)				
	10% OF ITEM 7	EST	\$2,682,300	1	\$2,682,300
9	CONSTRUCTION SUBTOTAL (ITEMS 7 & 8)				\$29,504,750
10	SALES TAX				
11	AGREEMENTS (Utilities, WSP, etc.)	EST	\$0	1	\$0
12	SUBTOTAL (ITEMS 9 THRU 11)				\$29,504,750
13	CONTINGENCY (30% OF ITEM 12)	EST	\$8,851,500	1	\$8,851,500
14	CONSTRUCTION SUBTOTAL (ITEMS 12 & 13)				\$38,356,250
15	FUTURE CN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		10%	2029	2022	\$74,746,000
16	CONSTRUCTION ADMINISTRATION				
	CONSTRUCTION ENGINEERING (15% OF ITEM 14)	EST	\$5,753,500	1	\$5,753,500
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$1,917,900	1	\$1,917,900
17	FUTURE CN ADMIN COST BASED ON INFLATION RATE	Inflation	Const. Year	Cost Index	Future Cost
		5%	2029	2022	\$10,795,000
III.	PRELIMINARY WORK				
	PRELIMINARY ENGINEERING (15.0% OF ITEM 14)	EST	\$5,753,500	1	\$5,753,500
	CITY ENGINEERING & ADMINISTRATION (5% OF ITEM 14)	EST	\$1,917,900	1	\$1,917,900
	ENVIRONMENTAL PERMITS/DOCUMENTS	EST	\$230,000	1	\$230,000
	FUTURE PE COST BASED ON INFLATION RATE	Inflation	Design Year	Cost Index	Future Cost
		5%	2025	2022	\$9,147,000
IV.	TOTAL ESTIMATED COST (ITEMS I, 15, 17, & III)				
	SUB-TOTAL PROJECT COST (BASED ON INFLATION RATE)				\$97,143,000
TOTAL PROJECT COST RANGE (BASED ON INFLATION RATE)					\$98,000,000

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TAZ	2020 Jobs	2045 Jobs	2020 Housing Units	2045 Housing Units	Projected New Jobs	Projected Housing Unit Growth
607	43	135	37	107	92	70
608	51	212	0	0	161	0