

**Figure 9-8  
COST ESTIMATE SUMMARY**

<b>PROJECT:</b> US20/OR34 Access Management and Expressway Plan				<b>KIND OF WORK:</b> New and Reconstructed Roadways, Multi-Use Path, Intersection Improvements				<b>REFERENCE NAME/PHONE:</b> John Willis, P.E., CH2M HILL (503)872-4437				<b>LENGTH (MI.):</b> Varies by Priority Phase		<b>DATE:</b> 3/3/2006	
<b>DESIGN LEVEL:</b> Planning															
NO.	ITEM	UNIT	UNIT COST	Priority 1		Priority 2a		Priority 2b		Priority 3a		Priority 3b			
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST		
1	Curb, Gutter, Sidewalks & Drainage	Mi.	\$736,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
2	Bike Boulevard	Mi.	\$110,000	0.00	\$0	0.70	\$77,000	0.00	\$0	0.00	\$0	0.00	\$0		
3	New Roadway	Lane-Mi.	\$250,000	0.80	\$200,000	0.00	\$0	0.87	\$217,500	1.10	\$275,000	1.01	\$252,500		
4	Overlay Existing Roadway	Lane-Mi.	\$66,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
5	Reconstruct Existing Roadway	Lane-Mi.	\$278,000	0.00	\$0	0.00	\$0	0.00	\$0	0.43	\$119,540	0.00	\$0		
6	Intersection Widening	EA	\$46,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
7	Peoria Intersection Improvement	EA	\$100,000	1.00	\$100,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
8	Restriping Existing Roadway	Lane-Mi.	\$15,000	0.80	\$12,000	0.00	\$0	0.87	\$13,050	1.10	\$16,500	1.01	\$15,150		
9	Interconnect Signal	LS	\$30,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
10	New Signal	EA	\$140,000	1.00	\$140,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
11	Signal Modifications	EA	\$60,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
12	Transit Enhancements	EA	\$25,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
13	Traffic Calming	%	-	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0	0.0%	\$0		
14	Illumination	Mi.	\$234,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
15	Landscaping	Mi.	\$225,000	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0	0.00	\$0		
16	Bridges	SF	\$120	0	\$0	0	\$0	0	\$0	7,200	\$864,000	0	\$0		
17	Culverts	SF	\$100	600	\$60,000	220	\$22,000	740	\$74,000	0	\$0	0	\$0		
18	Earthwork	CY	\$10	4,000	\$40,000	2,500	\$25,000	3,500	\$35,000	20,000	\$200,000	12,000	\$120,000		
19	Walls	SF	\$50	0	\$0	0	\$0	0	\$0	0	\$0	2,100	\$105,000		
<b>SUBTOTAL</b>				<b>\$552,000</b>		<b>\$124,000</b>		<b>\$339,550</b>		<b>\$1,475,040</b>		<b>\$492,650</b>			

ADDITIONAL COSTS	RANGE	PERCENTAGE	COST	PERCENTAGE	COST	PERCENTAGE	COST	PERCENTAGE	COST	PERCENTAGE	COST		
Construction Surveying	1.0-2.5%	2.0%	\$11,000	2.0%	\$2,000	2.0%	\$7,000	2.5%	\$37,000	2.5%	\$12,000		
TP & DT	3.0-8.0%	6.0%	\$33,000	5.0%	\$6,000	6.0%	\$20,000	4.0%	\$59,000	4.0%	\$20,000		
Mobilization	8.0-10.0%	9.0%	\$50,000	9.0%	\$11,000	9.0%	\$31,000	9.0%	\$133,000	9.0%	\$44,000		
Erosion Control	0.5-2.0%	1.0%	\$6,000	1.0%	\$1,000	1.0%	\$3,000	2.0%	\$30,000	2.0%	\$10,000		
Contingency	40.0%	40.0%	\$221,000	40.0%	\$50,000	40.0%	\$136,000	40.0%	\$590,000	40.0%	\$197,000		
Escalation (per year) -Current Year	0.5-2.0%	0.0%		0.0%		0.0%		0.0%		0.0%			
		2005	\$0	2005	\$0	2005	\$0	2005	\$0	2005	\$0		
<b>ROUNDED TOTAL CONSTRUCTION COST</b>			<b>\$873,000</b>	<b>\$194,000</b>			<b>\$537,000</b>			<b>\$2,324,000</b>			<b>\$776,000</b>
Design Engineering	13.0%	13.0%	\$113,000	13.0%	\$25,000	13.0%	\$70,000	13.0%	\$302,000	13.0%	\$101,000		
Construction Engineering	10.0%	10.0%	\$87,000	10.0%	\$19,000	10.0%	\$54,000	10.0%	\$232,000	10.0%	\$78,000		
<b>TOTAL PHASE COST</b>			<b>\$1,073,000</b>	<b>\$238,000</b>			<b>\$661,000</b>			<b>\$2,858,000</b>			<b>\$955,000</b>
<b>PRELIMINARY RIGHT-OF-WAY COST ESTIMATE</b>												<b>\$2,898,481</b>	
<b>TOTAL PROJECT COST</b>												<b>\$8,683,481</b>	

<b>NOTES:</b>
<b>New Roadway:</b> <i>Priority 1:</i> two 11-ft lanes, 4-ft shoulders; <i>Priority 2b:</i> two 11-ft lanes, one 4-ft shoulder (other shoulder is multi-use path from Priority 2a); <i>Priority 3a:</i> two 12-ft lanes, 6-ft shoulders; <i>Priority 3b:</i> two 11-ft lanes, 2-ft shoulders
<b>Reconstructed Roadway:</b> <i>Priority 3a:</i> three 12-ft lanes, 6-ft shoulders on Peoria Rd.
<b>Multi-Use Path:</b> <i>Priority 2a:</i> 11-ft wide
<b>Bridge:</b> <i>Priority 3a:</i> 36-ft wide by 200-ft long
<b>Culverts:</b> <i>Priority 1:</i> 30-ft wide by 20-ft long; <i>Priority 2a:</i> 11-ft wide by 20-ft long; <i>Priority 2b:</i> 37-ft wide by 20-ft long
<b>Retaining Wall:</b> <i>Priority 3b:</i> 6-ft tall by 350-ft long
<b>Earthwork:</b> <i>All Phases:</i> based on lengths and widths of roadway in combination with existing and proposed vertical alignments
<b>Peoria Intersection Improvements:</b> <i>Priority 1:</i> ~50-ft of sidewalk/curb on northern corners and 100-ft of sidewalk/curb on southern corners; ~Reconstructed roadway on 400-ft of southern approach on Peoria Rd. ~New right turn lane in western approach of OR34: Grind and 2-in overlay of extg. 150-ft turn bay and addition of 150' of new pavement ~New curb along entire length of new right turn lane ~New curb and 1/2 lane of new roadway on east approach extending 260-ft from intersection on northern side and 190-ft on southern side ~Striping for all new/reconstructed roadway