

**APPENDIX H**  
**Cost Estimating Worksheets**

## FINAL COST ESTIMATES FOR RECOMMENDED IMPROVEMENTS

<u>Project</u>	<u>Cost</u>
SR503 Minimum Project	\$1,140,000
SR503 Hilshire to Evergreen	\$7,100,000
SR503 Option 3B	\$4,200,000
SR503 Option 3B Including 2nd signal at Georig/ Lewis River Road	\$4,910,000
I5/SR503 Interchange Option 6 (With Scott)	\$8,900,000
Dike Road Option 3B	\$2,500,000
Scott Ave Option 4D	\$53,400,000
Scott Ave Option 4D 1st Segment	\$18,500,000
Scott Ave Option 4D 2nd Segment	\$33,100,000
Scott Ave Option 4D 3rd Segment	\$2,000,000
Pekin Road Option 1	\$8,600,000

SR 503 Minimum Project

<b>SR 503 Minimum Road Widening</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$58,455
Traffic Control	LS	1	10%	\$51,730
Temporary Stormwater and Erosion Control	LS	1	3%	\$15,519
Roadway Excavation Including Haul	CY	3890	\$20	\$77,800
Crushed Surfacing Base Course	CY	2720	\$35	\$95,200
Hot Mix Asphalt	Ton	3120	\$105	\$327,600
Signing	LS	1	\$5,000	\$5,000
Utility Relocation	LS	1	\$10,000	\$10,000
Striping	LF	17000	\$0.10	\$1,700
ROW	LS	1	\$5,000	\$5,000
<b>Estimated Construction Cost Subtotal</b>				<b>\$648,004</b>
<b>Sales Tax</b>			8%	\$51,840
<b>Contingency (30%)</b>			30%	\$209,953
<b>Construction Total</b>				<b>\$909,797</b>
<b>Preliminary and Construction Engineering Total</b>	LS	1	25%	<b>\$227,449</b>
<b>Total</b>				<b>\$1,140,000</b>

SR 503 Widening Only

<b>SR 503 Hilshire to Evergreen</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$274,478
Traffic Control	LS	1	10%	\$238,676
Temporary Stormwater and Erosion Control	LS	1	5%	\$119,338
Roadway Excavation Including Haul	CY	6820	\$20	\$136,400
Crushed Surfacing Base Course	CY	4775	\$35	\$167,125
Hot Mix Asphalt	Ton	5378	\$105	\$564,690
Cement Concrete Traffic Curb & Gutter	LF	8870	\$30	\$266,100
Cement Concrete Sidewalk	SY	5453	\$50	\$272,650
Landscaping	LS	1	\$40,000	\$40,000
Signing	LS	1	\$10,000	\$10,000
Storm Sewer Pipe	LF	8870	\$70	\$620,900
Storm Inlets	EACH	30	\$2,500	\$75,000
Stormwater Treatment	LS	1	6%	\$135,100
Utility Relocation	LS	1	\$87,500	\$87,500
Bicycle Lane Markings	EACH	35	\$250	\$8,750
Striping	LF	25500	\$0.10	\$2,550
ROW	LS	1	\$1,020,750	\$1,020,750
<b>Estimated Construction Cost Subtotal</b>				<b>\$4,040,008</b>
<b>Sales Tax</b>			8%	\$323,201
<b>Contingency (30%)</b>			30%	\$1,308,962
<b>Construction Total</b>				<b>\$5,672,171</b>
<b>Preliminary and Construction Engineering Total</b>			25%	<b>\$1,418,043</b>
<b>Total</b>				<b>\$7,100,000</b>

SR503 Option 3B

<b>SR 503 Option 3B</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$160,071
Traffic Control	LS	1	10%	\$139,192
Temporary Stormwater and Erosion Control	LS	1	5%	\$69,596
Roadway Excavation Including Haul	CY	2590	\$20	\$51,800
Crushed Surfacing Base Course	CY	1812	\$35	\$63,420
Hot Mix Asphalt	Ton	2160	\$105	\$226,800
Cement Concrete Traffic Curb & Gutter	LF	3675	\$30	\$110,250
Cement Concrete Sidewalk	SY	2450	\$50	\$122,500
E Scott Avenue/ Lewis River Road Signal	LS	1	\$400,000	\$400,000
Landscaping	LS	1	\$10,000	\$10,000
Storm Sewer Pipe	LF	3675	\$70	\$257,250
Storm Inlets	EACH	14	\$2,500	\$35,000
Stormwater Treatment	LS	1	6%	\$78,788
Utility Relocation	LS	1	\$25,000	\$25,000
Bicycle Lane Markings	EACH	20	\$250	\$5,000
Pavement Legend: Signal Crosswalk Markings	EACH	25	\$200	\$5,000
Striping	LF	11160	\$0.10	\$1,116
ROW	LS	1	\$578,000	\$578,000
<b>Estimated Construction Cost Subtotal</b>				<b>\$2,338,784</b>
<b>Sales Tax</b>			8%	\$187,103
<b>Contingency (30%)</b>			30%	\$757,766
<b>Construction Total</b>				<b>\$3,283,653</b>
<b>Preliminary and Construction Engineering Total</b>	LS	1	25%	<b>\$820,913</b>
			<b>Total</b>	<b>\$4,200,000</b>

I5\_SR503 with Scott Option 6

<b>I5/SR503 Intersection with Scott (Option 6)</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$447,606
Traffic Control	LS	1	10%	\$403,249
Temporary Stormwater and Erosion Control	LS	1	1%	\$40,325
Roadway Excavation Including Haul	CY	6946	\$20	\$138,920
Crushed Surfacing Base Course	CY	4862	\$35	\$170,170
Hot Mix Asphalt	Ton	7207	\$105	\$756,735
Embankment Compaction	CY	3340	\$18	\$60,120
Cement Concrete Traffic Curb & Gutter	LF	7586	\$30	\$227,580
Cement Concrete Sidewalk	SY	2787	\$50	\$139,350
Traffic Signal	EACH	4	\$400,000	\$1,600,000
Landscaping	LS	1	\$50,000	\$50,000
Signing	LS	1	\$50,000	\$50,000
Storm Sewer Pipe	LF	7586	\$70	\$531,020
Storm Inlets	EACH	31	\$2,500	\$77,500
Stormwater Treatment	LS	1	4%	\$155,096
Utility Relocation	LS	1	\$30,000	\$30,000
Bicycle Lane Markings	EACH	40	\$250	\$10,000
Pavement Legend: Signal Crosswalk Markings	EACH	150	\$200	\$30,000
Striping	LF	60000	\$0.10	\$6,000
ROW	LS	1	\$120,200	\$120,200
<b>Estimated Construction Cost Subtotal</b>				\$5,043,871
<b>Sales Tax</b>			8%	\$403,510
<b>Contingency (30%)</b>			30%	\$1,634,214
<b>Construction Total</b>				<b>\$7,081,595</b>
<b>Preliminary and Construction Engineering Total</b>	LS	1	25%	<b>\$1,770,399</b>
			<b>Total</b>	<b>\$8,900,000</b>

## Dike Road Option 3B

<b>Dike Road Option 3B</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>	
Mobilization	LS	1	10%	\$128,936	
Traffic Control	LS	1	10%	\$108,689	
Temporary Stormwater and Erosion Control	LS	1	5%	\$54,344	
Removing Asphalt Conc. Pavement	SY	1590	\$10	\$15,900	
Roadway Excavation Including Haul	CY	1810	\$20	\$36,200	
Crushed Surfacing Base Course	CY	1270	\$35	\$44,450	
Hot Mix Asphalt	Ton	1645	\$105	\$172,725	
Cement Concrete Paving (Truck Apron)	CY	130	\$250	\$32,500	
Cement Concrete Traffic Curb & Gutter	LF	5335	\$30	\$160,050	
Cement Concrete Sidewalk	SY	3275	\$50	\$163,750	
Signing	LS	1	\$15,000	\$15,000	
Storm Sewer Pipe	LF	4000	\$70	\$280,000	
Storm Inlets	EACH	20	\$2,500	\$50,000	
Stormwater Treatment	LS	1	8%	\$80,510	
Utility Relocation	LS	1	\$10,000	\$10,000	
Bicycle Lane Markings	EACH	20	\$250	\$5,000	
Pavement Legend: Signal Crosswalk Markings	EACH	100	\$200	\$20,000	
Striping	LF	8000	\$0.10	\$800	
ROW	LS	1	\$39,440	\$39,440	
<b>Estimated Construction Cost Subtotal</b>				<b>\$1,418,294</b>	
<b>Sales Tax</b>			8%	\$113,463	
<b>Contingency (30%)</b>			30%	\$459,527	
<b>Construction Total</b>				<b>\$1,991,284</b>	
<b>Preliminary and Construction Engineering Total</b>		LS	1	25%	<b>\$497,821</b>
<b>TOTAL</b>				<b>\$2,500,000</b>	

Scott Ave Option 4D

<b>Scott Avenue Crossing Option 4D</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$2,613,860
Traffic Control	LS	1	10%	\$2,354,829
Temporary Stormwater and Erosion Control	LS	1	1%	\$235,483
Roadway Excavation Including Haul	CY	11690	\$20	\$233,800
Crushed Surfacing Base Course	CY	13194	\$35	\$461,790
Hot Mix Asphalt	Ton	17725	\$105	\$1,861,125
Embankment Compaction	CY	78550	\$18	\$1,413,900
Retaining Walls	SF	74220	\$60	\$4,453,200
Cement Concrete Traffic Curb & Gutter	LF	10215	\$30	\$306,450
Cement Concrete Sidewalk	SY	5108	\$50	\$255,400
Rail crossing Structure	SF	5640	\$400	\$2,256,000
I-5 Structure	SF	23250	\$400	\$9,300,000
Traffic Barrier	LF	2400	\$150	\$360,000
Traffic Signal (I-5 and Scott Ave Ramps)	EACH	2	\$400,000	\$800,000
Traffic Signal (Scott Ave/Pacific Hwy/Georig Intersection)	EACH	1	\$150,000	\$150,000
Landscaping	LS	1	\$20,000	\$20,000
Signing	LS	1	\$25,000	\$25,000
Storm Sewer Pipe	LF	10215	\$70	\$715,050
Storm Inlets	EACH	35	\$2,500	\$87,500
Stormwater Treatment	LS	1	4%	\$807,368
Utility Relocation	LS	1	\$10,000	\$10,000
Bicycle Lane Markings	EACH	30	\$250	\$7,500
Pavement Legend: Signal Crosswalk Markings	EACH	105	\$200	\$21,000
Striping	LF	32040	\$0.10	\$3,204
ROW	LS	1	\$1,641,990	\$1,641,990
<b>Estimated Construction Cost Subtotal</b>				<b>\$30,394,449</b>
<b>Sales Tax</b>			8%	<b>\$2,431,556</b>
<b>Contingency (30%)</b>			30%	<b>\$9,847,801</b>
<b>Construction Total</b>				<b>\$42,673,806</b>
<b>Preliminary and Construction Engineering Total</b>	LS	1	25%	<b>\$10,668,451</b>
			<b>Total</b>	<b>\$53,400,000</b>

**Scott Avenue Crossing Option 4D -  
1st Segment**

**Station 13+55 to Station 32+50**

	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$828,043
Traffic Control	LS	1	10%	\$745,985
Temporary Stormwater and Erosion Control	LS	1	1%	\$74,598
Roadway Excavation Including Haul	CY	5585	\$20	\$111,700
Crushed Surfacing Base Course	CY	4475	\$35	\$156,625
Hot Mix Asphalt	Ton	3930	\$105	\$412,650
Embankment Compaction	CY	42995	\$18	\$773,910
Retaining Walls	SF	48620	\$60	\$2,917,200
Cement Concrete Traffic Curb & Gutter	LF	4060	\$30	\$121,800
Cement Concrete Sidewalk	SY	2030	\$50	\$101,500
Rail crossing Structure	SF	5640	\$400	\$2,256,000
Landscaping	LS	1	\$7,000	\$7,000
Signing	LS	1	\$5,000	\$5,000
Storm Sewer Pipe	LF	4060	\$70	\$284,200
Storm Inlets	EACH	15	\$2,500	\$37,500
Stormwater Treatment	LS	1	4%	\$260,726
Utility Relocation	LS	1	\$4,000	\$4,000
Bicycle Lane Markings	EACH	10	\$250	\$2,500
Pavement Legend: Signal Crosswalk Markings	EACH	32	\$200	\$6,400
Striping	LF	11370	\$0.10	\$1,137
ROW	LS	1	\$1,396,600	\$1,396,600
<b>Estimated Construction Cost Subtotal</b>				<b>\$10,505,074</b>
<b>Sales Tax</b>			8%	\$840,406
<b>Contingency (30%)</b>			30%	\$3,403,644
<b>Construction Total</b>				<b>\$14,749,124</b>
<b>Preliminary and Construction Engineering Total</b>			25%	<b>\$3,687,281</b>
<b>Total</b>				<b>\$18,500,000</b>

**Scott Avenue Crossing Option 4D -  
2nd Segment**

**Station 32+50 to Station 50+00**

	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$1,688,514
Traffic Control	LS	1	10%	\$1,521,184
Temporary Stormwater and Erosion Control	LS	1	1%	\$152,118
Roadway Excavation Including Haul	CY	3655	\$20	\$73,100
Crushed Surfacing Base Course	CY	7004	\$35	\$245,140
Hot Mix Asphalt	Ton	12140	\$105	\$1,274,700
Embankment Compaction	CY	35555	\$18	\$639,990
Retaining Walls	SF	20800	\$60	\$1,248,000
Cement Concrete Traffic Curb & Gutter	LF	5380	\$30	\$161,400
Cement Concrete Sidewalk	SY	2690	\$50	\$134,500
I-5 Structure	SF	23250	\$400	\$9,300,000
Traffic Barrier	LF	2400	\$150	\$360,000
Traffic Signal	EACH	2	\$400,000	\$800,000
Landscaping	LS	1	\$8,000	\$8,000
Signing	LS	1	\$15,000	\$15,000
Storm Sewer Pipe	LF	5380	\$70	\$376,600
Storm Inlets	EACH	15	\$2,500	\$37,500
Stormwater Treatment	LS	1	4%	\$523,804
Utility Relocation	LS	1	\$4,000	\$4,000
Bicycle Lane Markings	EACH	15	\$250	\$3,750
Pavement Legend: Signal Crosswalk Markings	EACH	23	\$200	\$4,600
Striping	LF	17540	\$0.10	\$1,754
ROW	LS	1	\$271,800	\$271,800
<b>Estimated Construction Cost Subtotal</b>				<b>\$18,845,454</b>
<b>Sales Tax</b>			8%	\$1,507,636
<b>Contingency (30%)</b>			30%	\$6,105,927
<b>Construction Total</b>				<b>\$26,459,017</b>
<b>Preliminary and Construction Engineering Total</b>			25%	<b>\$6,614,754</b>
<b>Total</b>				<b>\$33,100,000</b>

**Scott Avenue Crossing Option 4D -  
3rd Segment**

<b>Station 50+00 to Intersection</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>
Mobilization	LS	1	10%	\$96,708
Traffic Control	LS	1	10%	\$87,125
Temporary Stormwater and Erosion Control	LS	1	1%	\$8,712
Roadway Excavation Including Haul	CY	2450	\$20	\$49,000
Crushed Surfacing Base Course	CY	1715	\$35	\$60,025
Hot Mix Asphalt	Ton	1655	\$105	\$173,775
Embankment Compaction	CY	0	\$18	\$0
Retaining Walls	SF	4800	\$60	\$288,000
Cement Concrete Traffic Curb & Gutter	LF	775	\$30	\$23,250
Cement Concrete Sidewalk	SY	390	\$50	\$19,500
Traffic Signal	EACH	1	\$150,000	\$150,000
Landscaping	LS	1	\$5,000	\$5,000
Signing	LS	1	\$5,000	\$5,000
Storm Sewer Pipe	LF	775	\$70	\$54,250
Storm Inlets	EACH	5	\$2,500	\$12,500
Stormwater Treatment	LS	1	4%	\$22,633
Utility Relocation	LS	1	\$2,000	\$2,000
Bicycle Lane Markings	EACH	5	\$250	\$1,250
Pavement Legend: Signal Crosswalk Markings	EACH	23	\$200	\$4,600
Striping	LF	4650	\$0.10	\$465
ROW	LS	1	\$59,000	\$59,000
<b>Estimated Construction Cost Subtotal</b>				<b>\$1,122,793</b>
<b>Sales Tax</b>			8%	\$89,823
<b>Contingency (30%)</b>			30%	\$363,785
<b>Construction Total</b>				<b>\$1,576,402</b>
<b>Preliminary and Construction Engineering Total</b>			25%	<b>\$394,100</b>
			<b>Total</b>	<b>\$2,000,000</b>

Pekin Road Option 1

<b>Pekin Road Option 1</b>	<b>UNITS</b>	<b>QTY</b>	<b>UNIT COST</b>	<b>BASE COST</b>	
Mobilization	LS	1	10%	\$403,188	
Traffic Control	LS	1	10%	\$353,673	
Temporary Stormwater and Erosion Control	LS	1	4%	\$141,469	
Roadway Excavation Including Haul	CY	5520	\$20	\$110,400	
Crushed Surfacing Base Course	CY	3867	\$35	\$135,345	
Hot Mix Asphalt	Ton	3395	\$105	\$356,475	
Embankment Compaction	CY	26200	\$18	\$471,600	
Retaining Walls	SF	24660	\$60	\$1,479,600	
Cement Concrete Traffic Curb & Gutter	LF	2425	\$30	\$72,750	
Cement Concrete Sidewalk	SY	1213	\$50	\$60,650	
Drainage	LS	1	\$20,000	\$20,000	
Stormwater Treatment	LS	1	2%	\$69,348	
Utility Relocation	LS	1	\$15,000	\$15,000	
Striping	LF	10870	\$0.10	\$1,087	
Pekin Crossing Structure	SF	4136	\$180	\$744,480	
ROW	LS	1	\$411,900	\$411,900	
<b>Estimated Construction Cost Subtotal</b>				<b>\$4,846,965</b>	
<b>Sales Tax</b>			8%	\$387,757	
<b>Contingency (30%)</b>			30%	\$1,570,417	
<b>Construction Total</b>				<b>\$6,805,139</b>	
<b>Preliminary and Construction Engineering Total</b>		LS	1	25%	<b>\$1,701,285</b>
<b>Total</b>				<b>\$8,600,000</b>	