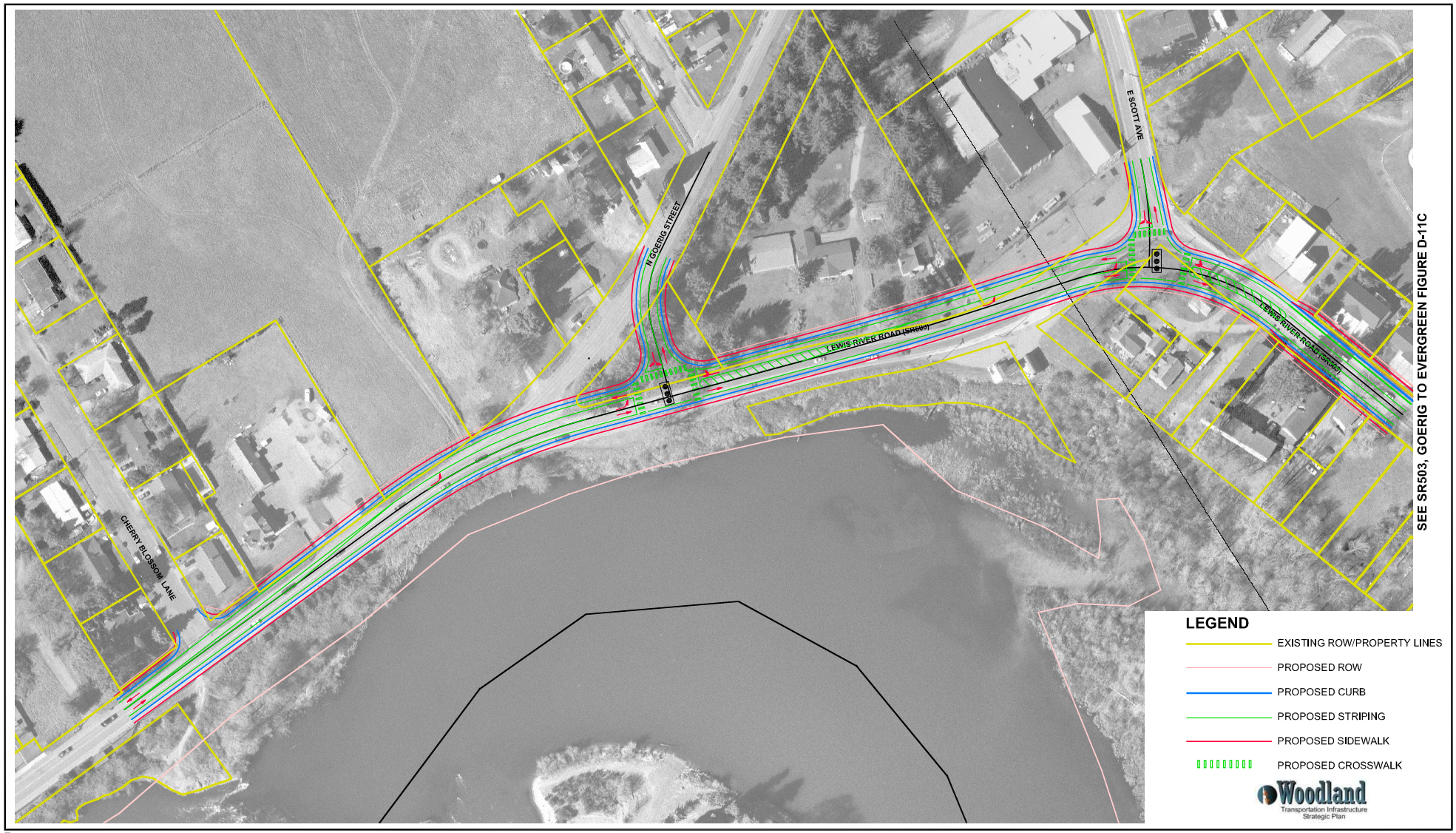
Appendix D: Design Options



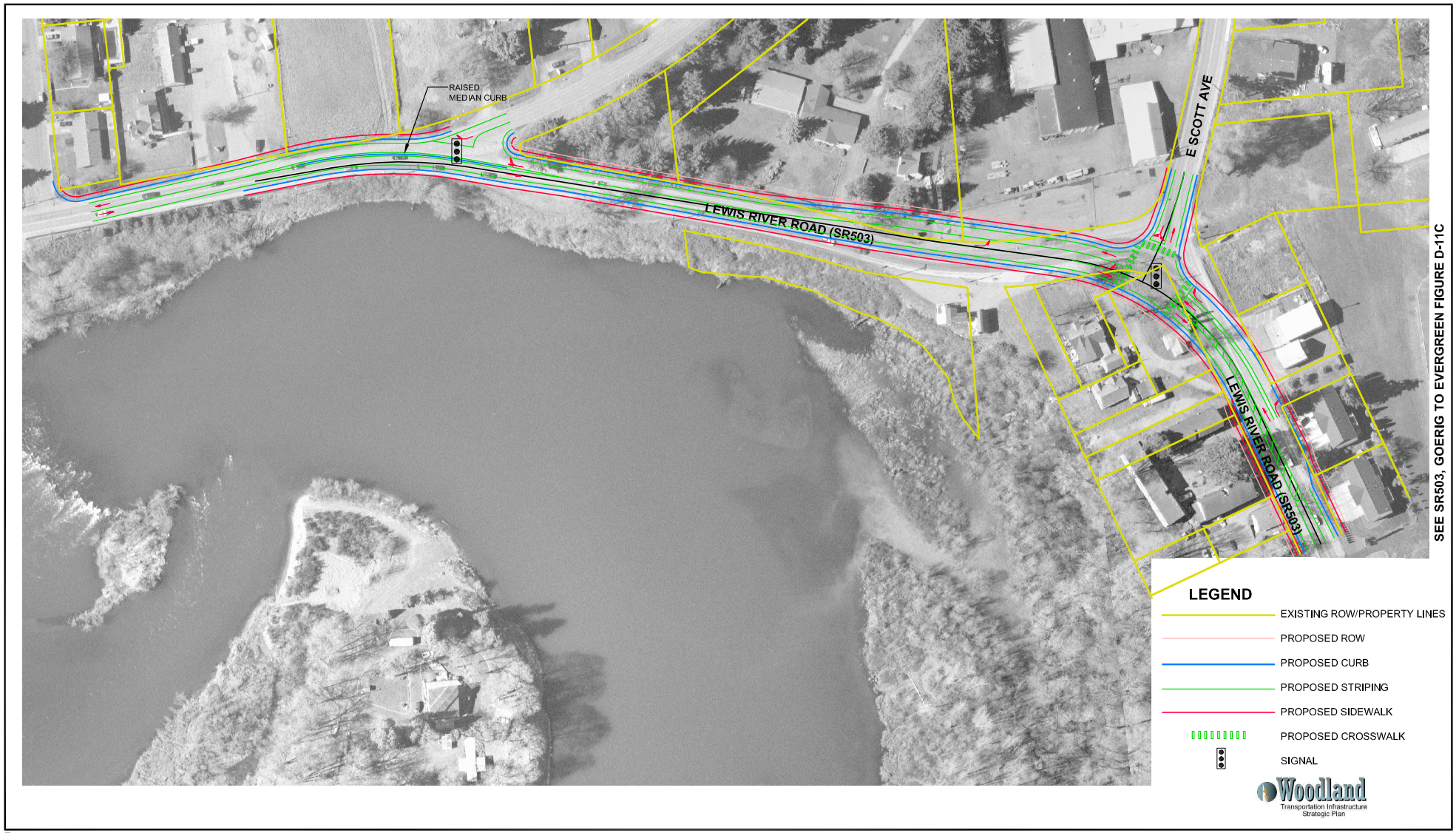
Parametrix DATE: May 27, 2008 FILE: PO2398006F-70

N

0 130'

SCALE IN FEET

Figure D-11A
SR 503, GOERIG TO EVERGREEN,
KEY INTERSECTIONS
OPTION 1



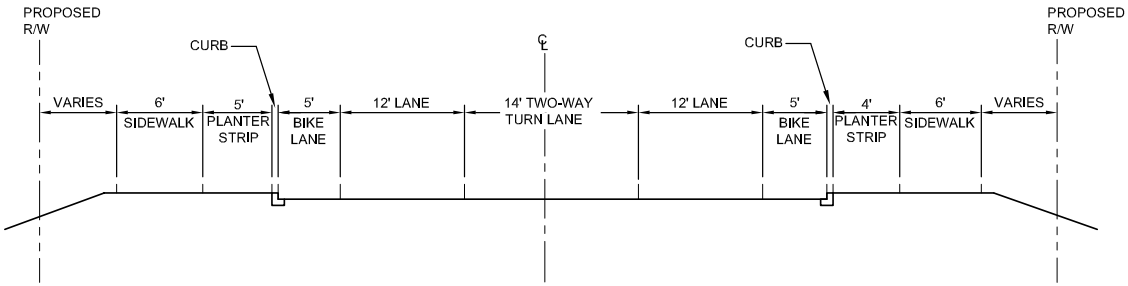
Parametrix DATE: May 27, 2008 FILE: PO2398006F-55

N

0 120'

SCALE IN FEET

Figure D-11B
SR503, GOERIG TO EVERGREEN,
KEY INTERSECTIONS
OPTION 3B



SECTION A-A

LEGEND

- EXISTING ROW/PROPERTY LINES
- PROPOSED ROW
- PROPOSED CURB
- PROPOSED STRIPING
- PROPOSED SIDEWALK

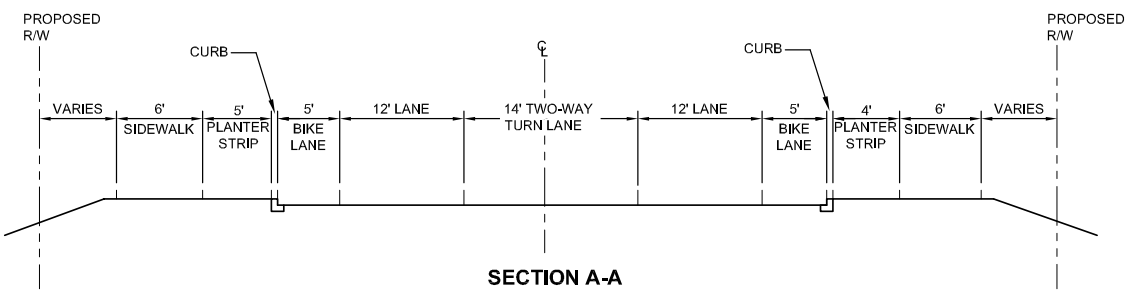
Woodland
Transportation Infrastructure Strategic Plan

Parametrix DATE: May 27, 2008 FILE: PO2398006F-45

N

0 100'
SCALE IN FEET

Figure D-11C
SR 503, GOERIG TO EVERGREEN



SECTION A-A

LEGEND

- EXISTING ROW/PROPERTY LINES
- PROPOSED ROW
- PROPOSED CURB
- PROPOSED STRIPING
- PROPOSED SIDEWALK

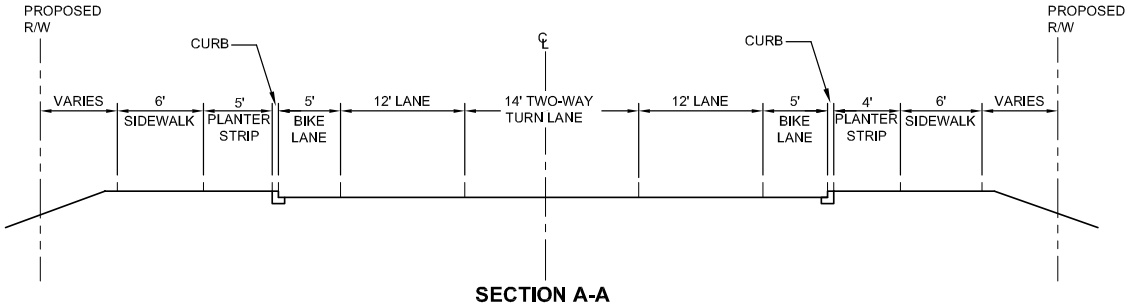
Woodland
Transportation Infrastructure Strategic Plan

Parametrix DATE: May 28, 2008 FILE: PO2398006F-47

N

0 100'
SCALE IN FEET

Figure D-11E
SR 503, GOERIG TO EVERGREEN



SECTION A-A

LEGEND

- EXISTING ROW/PROPERTY LINES
- PROPOSED ROW
- PROPOSED CURB
- PROPOSED STRIPING
- PROPOSED SIDEWALK

Woodland
Transportation Infrastructure Strategic Plan

Parametrix DATE: May 28, 2008 FILE: PO2398006F-46

N

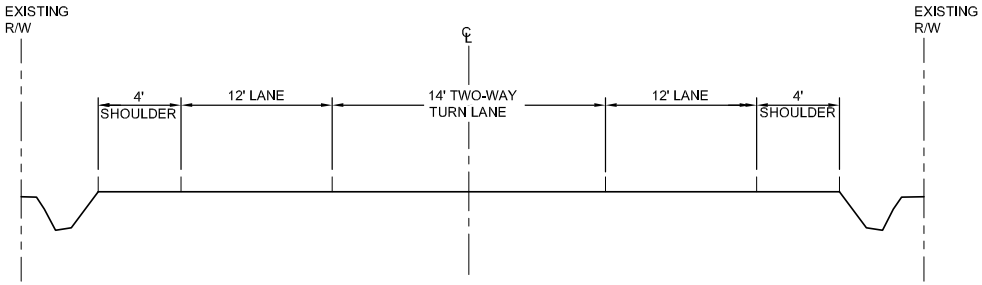
0 100'
SCALE IN FEET

Figure D-11D
SR 503, GOERIG TO EVERGREEN

SEE SR503, INTERIM IMPROVEMENT FIGURE D-12B

LEGEND

- EXISTING ROW/PROPERTY LINES
- PROPOSED EDGE OF PAVMENT
- PROPOSED STRIPING



SECTION B-B

Woodland
Transportation Infrastructure Strategic Plan

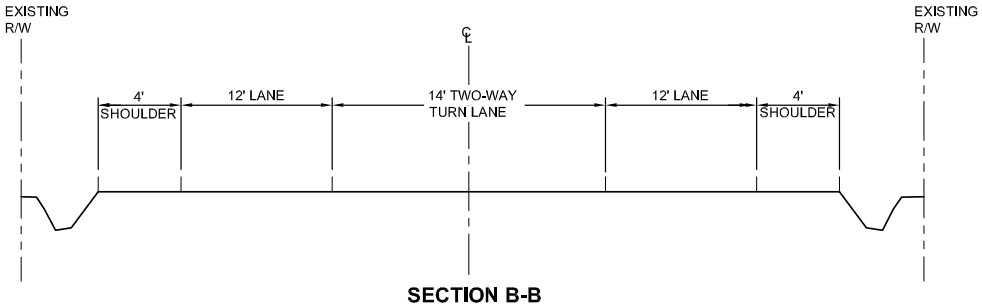
Parametrix DATE: May 28, 2008 FILE: PO2398006F-I15

N

0 100'

SCALE IN FEET

Figure D-12A
SR 503, INTERIM IMPROVEMENT



SECTION B-B

LEGEND

- EXISTING ROW/PROPERTY LINES
- PROPOSED ROW
- PROPOSED EDGE OF PAVEMENT
- PROPOSED STRIPING

Woodland
Transportation Infrastructure Strategic Plan

Parametrix DATE: May 28, 2008 FILE: PO2398006F-d6

N

0 100'
SCALE IN FEET

Figure D-12B
SR 503, INTERIM IMPROVEMENT

Appendix E: Cost Estimates

SR 503 Minimum Project

SR 503 Minimum Road Widening	UNITS	QTY	UNIT COST	BASE COST
Mobilization	LS	1	10%	$44,507
Traffic Control	LS	1	5%	$20,605
Temporary Stormwater and Erosion Control	LS	1	3%	$12,363
Roadway Excavation Including Haul	CY	3890	$20	$77,800
Crushed Surfacing Base Course	CY	2720	$25	$68,000
Hot Mix Asphalt	Ton	3120	$80	$249,600
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
Estimated Construction Cost Subtotal				$494,575
Sales Tax			8%	$39,566
Contingency (30%)			30%	$160,242
Construction Total				**$694,383**
Preliminary and Construction Engineering Total	LS	1	25%	**$173,596**
			Total	**$870,000**

SR 503 Widening Only

SR 503 Hilshire to Evergreen	UNITS	QTY	UNIT COST	BASE COST
Mobilization	LS	1	10%	$232,263
Traffic Control	LS	1	5%	$105,574
Temporary Stormwater and Erosion Control	LS	1	5%	$105,574
Roadway Excavation Including Haul	CY	6820	$20	$136,400
Crushed Surfacing Base Course	CY	4775	$25	$119,375
Hot Mix Asphalt	Ton	5378	$80	$430,240
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%	$119,518
Utility Relocation	LS	1	$10,000	$10,000
Bicycle Lane Markings	EACH	35	$250	$8,750
Striping	LF	25500	$0.10	$2,550
ROW	LS	1	$1,020,750	$1,020,750
Estimated Construction Cost Subtotal				$3,575,644
Sales Tax			8%	$286,052
Contingency (30%)			30%	$1,158,509
Construction Total				**$5,020,205**
Preliminary and Construction Engineering Total	LS	1	25%	**$1,255,051**
			Total	**$6,300,000**

SR503 Option 1

SR 503 Option 1	UNITS	QTY	UNIT COST	BASE COST
Mobilization	LS	1	10%	$216,654
Traffic Control	LS	1	5%	$98,479
Temporary Stormwater and Erosion Control	LS	1	5%	$98,479
Roadway Excavation Including Haul	CY	3540	$20	$70,800
Crushed Surfacing Base Course	CY	2477	$25	$61,925
Hot Mix Asphalt	Ton	2775	$80	$222,000
Cement Concrete Traffic Curb & Gutter	LF	4665	$30	$139,950
Cement Concrete Sidewalk	SY	3110	$50	$155,500
N Goerig Street/ Lewis River Road Signal	LS	1	$400,000	$400,000
E Scott Avenue/ Lewis River Road Signal	LS	1	$400,000	$400,000
Landscaping	LS	1	$10,000	$10,000
Signing	LS	1	$5,000	$5,000
Storm Sewer Pipe	LF	4665	$70	$326,550
Storm Inlets	EACH	16	$2,500	$40,000
Stormwater Treatment	LS	1	6%	$111,486
Utility Relocation	LS	1	$10,000	$10,000
Bicycle Lane Markings	EACH	20	$250	$5,000
Pavement Legend: Signal Crosswalk Markings	EACH	50	$200	$10,000
Striping	LF	13680	$0.10	$1,368
ROW	LS	1	$578,000	$578,000
Estimated Construction Cost Subtotal				$2,961,190
Sales Tax			8%	$236,895
Contingency (30%)			30%	$959,426
Construction Total				**$4,157,511**
Preliminary and Construction Engineering Total	LS	1	25%	**$1,039,378**
			Total	**$5,200,000**

SR503 Option 3B

SR 503 Option 3B	UNITS	QTY	UNIT COST	BASE COST
Mobilization	LS	1	10%	$142,370
Traffic Control	LS	1	5%	$64,714
Temporary Stormwater and Erosion Control	LS	1	5%	$64,714
Roadway Excavation Including Haul	CY	2590	$20	$51,800
Crushed Surfacing Base Course	CY	1812	$25	$45,300
Hot Mix Asphalt	Ton	2160	$80	$172,800
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%	$73,261
Utility Relocation	LS	1	$5,000	$5,000
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
Estimated Construction Cost Subtotal				$2,144,075
Sales Tax			8%	$171,526
Contingency (30%)			30%	$694,680
Construction Total				**$3,010,281**
Preliminary and Construction Engineering Total	LS	1	25%	**$752,570**
			Total	**$3,800,000**

Appendix F: Hazardous Materials

Excerpt from Woodland TISP: Existing Conditions Technical Memorandum

Table 3-3. Hazardous Materials Sites Bordering or Within the APE

Map ID	Site Address	Database
1	1391 Down River Drive # B	RCRIS
3	1039 Lewis River Road	UST, RCRIS
4		HWS
5	3906 Old Pacific Highway	UST, RCRIS
18	2301 Lewis River Road	UST
19		HWS
23	Hayes Star Rte Box 35B	RCRIS
24	1359 Down River Drive	RCRIS
26	618 W Scott Avenue	CSCSL, UST, RCRIS
27		HWS
31	158 W Scott Avenue	LUST, UST, RCRIS
32	302 W Scott Avenue	UST, RCRIS
33	1030 Atlantic Avenue	UST, RCRIS
34	1650 Atlantic Avenue	CSCSL, RCRIS
35	1400 Atlantic Avenue	RCRIS
37	9579 Old Pacific Highway	RCRIS
39	1061 Dale Street	RCRIS
40	1141 Lewis River Road	LUST, UST, RCRIS
46		HWS
48	1600 Atlantic Avenue	UST, HWS
49		HWS
51	1230 Lewis River Road	UST, RCRIS
53	1675 Pacific Avenue	UST, RCRIS
54	9473 Old Pacific Highway	CSCSL, RCRIS
55	9555 Old Pacific Highway	RCRIS
60	1015 Pacific Avenue	UST, RCRIS
61	1325 Lewis River Road	LUST, UST, RCRIS
62	1155 Hoffman Street	LUST, UST, RCRIS
63		HWS
65	1137 Pacific Avenue	UST, RCRIS
67	558 Robinson Road	RCRIS
73	1010 Atlantic Avenue	LUST, UST, RCRIS
76	1050 Hoffman Street	UST, RCRIS
78	1519 N Pacific Avenue	LUST, UST, RCRIS

The hazardous material sites bordering or within the APE are the most likely to be important for project planning. Sites lying outside of the APE are less likely to be acquired for right-of-way, redeveloped, or expose existing hazardous materials during project activities. Active or former cleanup sites (CSCSL and LUST) pose greater risk to potential transportation improvement projects because of known contamination issues at these sites.