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Appendix F:

Preliminary Cost Estimates

Project	MP	Quantity	Unit	Total
Segment 1: US 89 to Pinkerton Road				
Reconstruct				
Typical 1 (24 feet)	0 - 3.8	3.8	mi	\$2,300,000
Typical 2 (28 feet)	0 - 3.8	3.8	mi	\$3,500,000
Typical 3 (30 feet)	0 - 3.8	3.8	mi	\$3,900,000
Segment 2: Pinkerton Road to Porcupine Road				
Reconstruct				
Typical 1 (24 feet) ¹	3.8 - 8.4	4.6	mi	\$3,300,000
Typical 2 (28 feet) ¹	3.8 - 8.4	4.6	mi	\$5,100,000
Typical 3 (30 feet) ¹	3.8 - 8.4	4.6	mi	\$5,700,000
Segment 3: Porcupine Road to Hill Road				
Reconstruct				
Typical 1 (24 feet)	8.4 - 14.2	5.8	mi	\$3,500,000
Typical 2 (28 feet)	8.4 - 14.2	5.8	mi	\$5,400,000
Typical 3 (30 feet)	8.4 - 14.2	5.8	mi	\$5,900,000
Segment 4: Hill Road to Smith Creek Road				
Preservation and Maintenance				
Chip Seal	14.2 - 15.7	1.5	mi	\$70,000
Resurfacing	14.2 - 15.7	1.5	mi	\$640,000
Segment 5: Smith Creek Road to End Project				
Preservation and Maintenance				
Resurfacing	15.7 - 19.5	3.8	mi	\$790,000
Combined Reconstruction				
Reconstruct				
Typical 1 (24 feet) ¹	0.0 - 14.2	14.2	mi	\$9,100,000
Typical 2 (28 feet) ¹	0.0 - 14.2	14.2	mi	\$14,000,000
Typical 3 (30 feet) ¹	0.0 - 14.2	14.2	mi	\$15,500,000

¹ Includes a 20% inflation to account for installment of guardrail, bank stabilization, and other geotechnical considerations on Segment 2.

Unit Costs:	
Reconstruction:	
Typical 1 (24 feet)	\$588,315 /mi
Typical 2 (28 feet)	\$916,143 /mi
Typical 3 (30 feet)	\$1,016,243 /mi
Resurfacing:	
Pavement	\$421,200 /mi
Gravel	\$205,296 /mi
Geotech/Stabilization:	20%

24 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling:	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
2" Agg. Base:	1695.076 ton/mile	1700	\$25.00	\$42,500.00
3" Pavement:	2352.142 ton/mile	2400	\$90.00	\$216,000.00
Incidentals @ 50%:				\$150,850.00
				Construction cost per mile: \$452,550.00
Construction Engineering @ 15%				\$67,882.50
Preliminary Engineering @ 15%				\$67,882.50
				Total cost per mile: \$588,315.00

28 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling:	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
3" Pavement:	2731.52 ton/mile	2800	\$90.00	\$252,000.00
2" Agg. Base:	1926.222 ton/mile	2000	\$25.00	\$50,000.00
6" Agg. Base:	1386.88 ton/mile	1400	\$25.00	\$35,000.00
Unclassified borrow:	1486.222 cuyd/mile	1500	\$15.00	\$22,500.00
Incidentals @ 75%:				\$302,025.00
				Total cost per mile: \$704,725.00
Construction Engineering @ 15%				\$105,708.75
Preliminary Engineering @ 15%				\$105,708.75
				Total cost per mile: \$916,142.50

30 -Foot Typical Section Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Full Depth Recycling:	14373.33 sqyd/mile	14400	\$3.00	\$43,200.00
3" Pavement:	2921.209 ton/mile	3000	\$90.00	\$270,000.00
2" Agg. Base:	2080.32 ton/mile	2100	\$25.00	\$52,500.00
6" Agg. Base:	1772.124 ton/mile	1800	\$25.00	\$45,000.00
Unclassified borrow:	2346.667 cuyd/mile	2400	\$15.00	\$36,000.00
Incidentals @ 75%:				\$335,025.00
			Total cost per mile:	\$781,725.00

Construction Engineering @ 15% \$117,258.75
 Preliminary Engineering @ 15% \$117,258.75
Total cost per mile: \$1,016,242.50

Pavement Maintenance Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
Chip Seal, Type 1C	14373.33 sqyd/mi	14400	\$1.75	\$25,200.00
Emulsified Asphalt	14.37333 ton/mi	14.4	\$650.00	\$9,360.00
Mobilization and Traffic Control @ 25%:				\$8,640.00
			Total cost per mile (chip seal):	\$43,200.00

3" Pavement: 2352.142 ton/mile 2400 \$90.00 \$216,000.00
 Incidentals @ 50%: \$108,000.00
Total cost per mile: \$324,000.00

Construction Engineering @ 15% \$48,600.00
 Preliminary Engineering @ 15% \$48,600.00
Total cost per mile (resurfacing): \$421,200.00

Gravel Maintenance Cost

Road Length: 5280 ft
 Average Width: 24.5 ft

		Rounded	Unit Price	Cost
6" Agg Surfacing:	4931.129 ton/mile	5000	\$20.00	\$100,000.00
Roadway Reconditioning	5280 ft/mile	5280	\$1.00	\$5,280.00
Incidentals @ 50%:				\$52,640.00
			Total cost per mile:	\$157,920.00
Construction Engineering @ 15%				\$23,688.00
Preliminary Engineering @ 15%				\$23,688.00
			Total cost per mile (resurfacing):	\$205,296.00