

I-81 CORRIDOR IMPROVEMENT PLAN RECOMMENDATIONS

Staunton District

Table 1. Summary of Capital Improvements – Staunton District

Jurisdiction	Mile Marker (from/to)			Improvement Description	Total Project Cost (PE, RW, and Construction)
Northbound Direction Only					
Lexington/Rockbridge County	189.0	To	189.4	Extend acceleration lane	\$2,188,000
Raphine/Rockbridge County	205.3	To	205.7	Extend acceleration lane	\$2,354,000
Augusta County	232.4	To	232.8	Extend acceleration lane at Mt. Sydney Rest Area	\$1,097,000
Weyers Cave/Augusta County	233.3	To	237.4	Add truck climbing lane	\$96,391,000
Shenandoah County	268.8	To	268.9	Extend deceleration lane	\$1,000,000
Toms Brook/Shenandoah County	290.6	To	291.1	Extend acceleration lane	\$3,237,000
Middletown/Frederick County	302.5	To	302.9	Extend acceleration lane	\$2,418,000
Middletown/Frederick County	302.1	To	302.2	Extend deceleration lane	\$1,047,000
Frederick County	303.7	To	303.9	Extend deceleration lane at truck scales	\$1,980,000
Southbound Direction Only					
Shenandoah County	299.2	To	295.7	Widen to three lanes	\$95,082,000
Strasburg/Shenandoah County	296.7	To	296.3	Extend acceleration lane	\$1,609,000
Woodstock/Shenandoah County	283.3	To	282.9	Extend acceleration lane	\$2,354,000
Edinburg/Shenandoah County	279.2	To	278.7	Extend acceleration lane	\$2,248,000
Mount Jackson/Shenandoah County	272.3	To	272.3	MM 273 curve improvement (flashing chevron)	\$163,000
Weyers Cave/Augusta County	236.5	To	234.6	Add truck climbing lane	\$21,964,000
Augusta County	232.9	To	232.7	Extend deceleration lane at Mt. Sidney Safety Rest Area	\$1,057,000
Augusta County	232.5	To	231.9	Extend acceleration lane at Mt. Sidney Safety Rest Area	\$4,188,000
Staunton/Augusta County	221.5	To	221.2	Add auxiliary lane between Exit 221 and Exit 220	\$13,012,000
Raphine/Rockbridge County	205.2	To	204.7	Extend acceleration lane	\$3,237,000
Rockbridge County	204.5	To	195.1	Widen shoulder between MM 204 and MM 195 (includes 2.8 miles in northbound direction)	\$69,827,000
Both Directions					
Staunton/Augusta County	221.8	To	225.3	Widen to three lanes between Exit 221 and Exit 225	\$112,332,000
Harrisonburg/Rockingham County	242.2	To	248.1	Widen to three lanes from Exit 243 to Exit 248	\$239,956,000
Winchester/Frederick County	313.8	To	317.5	Widen to three lanes between Exit 313 and Exit 317	\$159,193,000
Staunton District Total Recommended Improvement Costs					\$838,100,000

* PE = Preliminary Engineering; RW = Right-of-Way and Utilities

I-81 CORRIDOR IMPROVEMENT PLAN RECOMMENDATIONS

Bristol District

Table 2. Summary of Capital Improvements – Bristol District

Jurisdiction	Mile Marker (from/to)			Improvement Description	Total Project Cost (PE, RW, and Construction)*
Northbound Direction Only					
Abingdon	17.9	to	17.9	MM 18 curve improvement (flashing chevron)	\$163,000
Abingdon/Washington County	19.2	to	19.4	Extend deceleration lane	\$1,548,000
Washington County	32.3	to	33.5	Add truck climbing lane	\$20,652,000
Chilhowie/Smyth County	39.5	to	40.6	Add truck climbing lane	\$18,420,000
Smyth County	38.9	to	39.1	Extend deceleration lane	\$1,988,000
Marion/Smyth County	45.5	to	45.6	Extend deceleration lane	\$9,888,000
Marion/Smyth County	48.0	to	48.9	Extend acceleration lane	\$5,569,000
Wytheville	67.3	to	67.4	Extend deceleration lane	\$2,873,000
Wytheville	67.6	to	67.6	MM 68 curve improvement (flashing chevron)	\$163,000
Wytheville	72.5	to	73.3	Extend deceleration lane	\$31,086,000
Wytheville	73.0	to	I-77 42.9	Extend I-77 deceleration lane and reconfigure off-ramp	\$19,459,000
Southbound Direction Only					
Wythe County	84.5	to	84.2	Extend deceleration lane	\$3,016,500
Wythe County	81.8	to	81.6	Extend deceleration lane	\$29,736,000
Wytheville	73.7	to	73.2	Add auxiliary lane between Exit 73 and Exit 72	\$23,200,000
Smyth County	54.3	to	54.1	Add auxiliary lane between Exit 54 and Smyth Safety Rest Area	\$5,520,000
Marion/Smyth County	47.7	to	47.4	Extend acceleration lane	\$4,266,000
Marion/Smyth County	43.1	to	42.6	Extend acceleration lane	\$3,654,000
Wythe County	I-77 41.0	to	I-77 40.9	Add auxiliary lane between Exit 40 on I-77 and Exit 72 on I-81 and extend acceleration lane	\$43,500,000
Smyth County	39.5	to	39.4	Extend deceleration lane	\$964,500
Smyth County	39.1	to	38.8	Extend acceleration lane	\$2,179,000
Washington County	34.0	to	33.0	Add truck climbing lane	\$14,100,000
Washington County	26.9	to	26.6	Extend deceleration lane	\$5,528,000
Washington County	26.3	to	26.2	Extend acceleration lane	\$2,005,000
Washington County	21.5	to	21.5	MM 22 curve improvement (flashing chevron)	\$163,000
Abingdon	17.6	to	17.6	MM 18 curve improvement (flashing chevron)	\$163,000
Abingdon	17.0	to	16.6	Extend acceleration lane	\$3,622,500
Bristol/Washington County	9.7	to	8.1	Widen to three lanes	\$31,813,000
Bristol District Total Recommended Improvement Costs					\$285,300,000

* PE = Preliminary Engineering; RW = Right-of-Way and Utilities

I-81 CORRIDOR IMPROVEMENT PLAN RECOMMENDATIONS

Salem District

Table 3. Summary of Capital Improvements – Salem District

Jurisdiction	Mile Marker (from/to)			Improvement Description	Total Project Cost (PE, RW, and Construction)*
Northbound Direction Only					
Pulaski County	88.0	to	88.0	MM 88 curve improvement (flashing chevron)	\$163,000
Pulaski County	90.2	to	90.7	Extend acceleration lane (Exit 89)	\$4,784,500
Radford/Montgomery County	105.5	to	106.0	Extend acceleration lane	\$6,567,000
Christiansburg/Montgomery County	116.2	to	128.4	Widen to three lanes from MM 116 to Exit 128	\$201,210,000
Montgomery County/Roanoke County/Salem	128.4	to	137.1	Widen to three lanes from Exit 128 to Exit 137	\$185,958,000
Botetourt County	162.4	to	162.9	Extend acceleration lane	\$1,976,500
Botetourt County	171.7	to	175.6	MM 172-176 curve improvement (flashing chevron)	\$163,000
Southbound Direction Only					
Botetourt County	175.3	to	171.4	MM 176-172 curve improvement (flashing chevron)	\$163,000
Botetourt County	158.4	to	158.2	Extend Troutville Safety Rest Area deceleration lane	\$1,267,000
Botetourt County	158.0	to	157.2	Extend Troutville Safety Rest Area acceleration lane	\$5,640,500
Pulaski/Pulaski County	94.2	to	93.7	Extend acceleration lane	\$3,838,000
Both Directions					
Salem/Roanoke County	137.1	to	141.8	Widen to three lanes between Exit 137 and Exit 141	\$231,005,000
Roanoke/Roanoke County	144.2	to	151.3	Widen to three lanes between MM 144 and Exit 150	\$232,595,000
Salem District Total Recommended Improvement Costs					\$875,400,000

* PE = Preliminary Engineering; RW = Right-of-Way and Utilities