

APPENDIX H. PROJECT SCORE SHEETS



Project Number	4	Category	Roadway Reconstruction	Project Benefit Score	65.3
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	James Street/Stadium Road	-	
Proposed Improvement	Extend SB deceleration lane & reconfigure ramps			Est. Cost	\$8,880,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.66	Low	33.3	20%	6.7
Existing Traffic Volume	1180	High	100	20%	20.0
Future Traffic Volume	1562	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.36	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	33.3	25%	8.3
		Economy	66.7	25%	16.7
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	88.9	15%	13.3
		Total Project Benefit Score			65.3

Benefit-Cost Calculation	Benefit Score	65.3
	Estimated Cost	\$8,880,000
	Estimated Users	51272
	Benefit-Cost Score	377.18



Project Number	5	Category	Roadway Reconstruction	Project Benefit Score	69.1
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	29	Odd Fellows Road	-	
Proposed Improvement	Extend SB acceleration lane & NB deceleration lanes & install auxiliary lane between Odd Fellows & Carroll Ave interchanges			Est. Cost	\$8,570,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.66	Low	33.3	20%	6.7
Existing Traffic Volume	1212	High	100	20%	20.0
Future Traffic Volume	1562	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.98	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	13	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	75.0	25%	18.8
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				69.1

Benefit-Cost Calculation	Benefit Score	69.1
	Estimated Cost	\$8,570,000
	Estimated Users	51272
	Benefit-Cost Score	413.31



Project Number	6	Category	New Roadway	Project Benefit Score	58.2
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Monacan Parkway	29/663	Izaak Walton Rd (Rt 663)	-	
Proposed Improvement		Construct on/off ramps		Est. Cost	\$11,590,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.2	Low	33.3	20%	6.7
Future Congestion	0.27	Low	33.3	20%	6.7
Existing Traffic Volume	582	High	100	20%	20.0
Future Traffic Volume	641	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.36	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	9	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score				58.2

Benefit-Cost Calculation	Benefit Score	58.2
	Estimated Cost	\$11,590,000
	Estimated Users	20470
	Benefit-Cost Score	102.85



Project Number	7	Category	Access Management and Safety	Project Benefit Score	71.7
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	29	Route 163	S Coolwell Road (Rt 694)	4.31
Proposed Improvement	Traffic Operations/ Signal Coordination/ ATPSM Upgrades			Est. Cost	\$2,500,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.578	Low	33.3	20%	6.7
Future Congestion	0.906	Medium	66.7	20%	13.3
Existing Traffic Volume	1010.6	High	100	20%	20.0
Future Traffic Volume	1548	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.78	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	83.4	25%	20.8
	Economy	66.7	25%	16.7
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				71.7

Benefit-Cost Calculation	Benefit Score	71.7
	Estimated Cost	\$2,500,000
	Estimated Users	37938.4
	Benefit-Cost Score	1087.67



Project Number	8	Category	New Roadway	Project Benefit Score	69.5
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Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	29/163	Route 163	-	

Proposed Improvement	Add ramp to complete interchange	Est. Cost	\$13,910,000
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Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.5	Low	33.3	20%	6.7
Existing Traffic Volume	955	High	100	20%	20.0
Future Traffic Volume	1193	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.18	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				69.5

Benefit-Cost Calculation	Benefit Score	69.5
	Estimated Cost	\$13,910,000
	Estimated Users	38,049
	Benefit-Cost Score	190.11



Project Number	9	Category	New Roadway	Project Benefit Score	65.3
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	US 29 Southern Bypass (Eastern Alternative)	29	S of Rt 24	E Lynchburg Salem Turnpike (US 460)	10
Proposed Improvement	New 4 lane limited access facility			Est. Cost	\$421,100,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.55	Low	33.3	20%	6.7
Future Congestion	0.62	Low	33.3	20%	6.7
Existing Traffic Volume	969	High	100	20%	20.0
Future Traffic Volume	1088	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.33	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	6	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	50.0	25%	12.5
		Economy	66.7	25%	16.7
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score			65.3		

Benefit-Cost Calculation	Benefit Score	65.3
	Estimated Cost	\$421,100,000
	Estimated Users	28220
	Benefit-Cost Score	4.38



Project Number	10	Category	New Roadway	Project Benefit Score	65.3
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	US 29 Southern Bypass (Western Alternative)	29	S of Rt 24	Richmond Highway (US 460)	4.5
Proposed Improvement	New 4 lane limited access facility			Est. Cost	\$283,970,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.55	Low	33.3	20%	6.7
Future Congestion	0.62	Low	33.3	20%	6.7
Existing Traffic Volume	969	High	100	20%	20.0
Future Traffic Volume	1088	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.33	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	6	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Social Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	50.0	25%	12.5
		Economy	66.7	25%	16.7
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score			65.3		

Benefit-Cost Calculation	Benefit Score	65.3
	Estimated Cost	\$283,970,000
	Estimated Users	28220
	Benefit-Cost Score	6.49



Project Number	15	Category	Roadway Capacity Expansion	Project Benefit Score	61.6
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Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Lynchburg Expressway	29	Amherst St (Rt 163)	Lyttleton Ln	0.52

Proposed Improvement	Widening/Improvement	Est. Cost	\$13,110,000
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Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.5	Low	33.3	20%	6.7
Existing Traffic Volume	955	High	100	20%	20.0
Future Traffic Volume	1193	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.31	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Social Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	33.3	25%	8.3
		Economy	58.4	25%	14.6
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					61.6

Benefit-Cost Calculation	Benefit Score	61.6
	Estimated Cost	\$13,110,000
	Estimated Users	38057
	Benefit-Cost Score	178.76



Project Number	19	Category	Access Management and Safety	Project Benefit Score	69.7
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Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Wards Rd	29	Colonial Highway (Rt 24)	City of Lynchburg corp limits	6.73

Proposed Improvement	Access Management and Intersection Improvements		Est. Cost	\$17,886,422	
Existing Congestion	0.55	Low	33.3	20%	6.7
Future Congestion	0.62	Low	33.3	20%	6.7
Existing Traffic Volume	969.13	High	100	20%	20.0
Future Traffic Volume	1088.25	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.33	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	7	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Social Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				69.7

Benefit-Cost Calculation	Benefit Score	69.7
	Estimated Cost	\$17,886,422
	Estimated Users	28221
	Benefit-Cost Score	109.92



Project Number	20	Category	Roadway Reconstruction	Project Benefit Score	61.7
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Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Richmond Highway	60	US 29 Bypass	Rt 606W	0.95

Proposed Improvement	2 lane improvements	Est. Cost	\$10,840,000
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Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.25	Low	33.3	20%	6.7
Future Congestion	0.31	Low	33.3	20%	6.7
Existing Traffic Volume	362	High	100	20%	20.0
Future Traffic Volume	454	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.19	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	9	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Social Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	33.3	25%	8.3
	Economy	75.0	25%	18.8
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				61.7

Benefit-Cost Calculation	Benefit Score	61.7
	Estimated Cost	\$10,840,000
	Estimated Users	7505
	Benefit-Cost Score	42.75



Project Number	21	Category	Roadway Capacity Expansion	Project Benefit Score	57.4
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Richmond Highway	60	Dulwich Dr (Rt 606W)	CVMPO Eastern Boundary	1.27
Proposed Improvement	Widening/Improvement			Est. Cost	\$54,460,000

Benefit Score Calculation
Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.26	Low	33.3	20%	6.7
Future Congestion	0.405	Low	33.3	20%	6.7
Existing Traffic Volume	376.5	High	100	20%	20.0
Future Traffic Volume	592.5	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	9	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	58.3	25%	14.6
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				57.4

Benefit-Cost Calculation	Benefit Score	57.4
	Estimated Cost	\$54,460,000
	Estimated Users	9410
	Benefit-Cost Score	9.92



Project Number	22	Category	Roadway Capacity Expansion	Project Benefit Score	58.4
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Elon Rd	130	NS Railroad	S. Amherst Highway (US 29 Bus)	1.88
Proposed Improvement	Widen to four lanes			Est. Cost	\$25,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.46	Low	33.3	20%	6.7
Future Congestion	0.52	Low	33.3	20%	6.7
Existing Traffic Volume	566	High	100	20%	20.0
Future Traffic Volume	719.5	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.42	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	33.3	25%	8.3
	Economy	75.0	25%	18.8
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				58.4

Benefit-Cost Calculation	Benefit Score	58.4
	Estimated Cost	\$25,000,000
	Estimated Users	8367.5
	Benefit-Cost Score	19.55



Project Number	23	Category	Intersection Reconstruction	Project Benefit Score	61.1
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Amelon Expressway	130	Amelon Center	-	1.96

Proposed Improvement	Intersection improvements with review of alternative intersections	Est. Cost	\$2,000,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.1	Low	33.3	20%	6.7
Future Congestion	0.3	Low	33.3	20%	6.7
Existing Traffic Volume	212	Medium	66.7	20%	13.3
Future Traffic Volume	392	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					53.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.53	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	53.3	20%	10.7
	Safety	50.0	25%	12.5
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score				61.1

Benefit-Cost Calculation	Benefit Score	61.1
	Estimated Cost	\$2,000,000
	Estimated Users	9895
	Benefit-Cost Score	302.17



Project Number	24	Category	Intersection Reconstruction	Project Benefit Score	61.6
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Elon Rd	130	Berg Dr	-	1.38
Proposed Improvement	Two left turn lanes			Est. Cost	\$1,143,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.5	Low	33.3	20%	6.7
Existing Traffic Volume	525	High	100	20%	20.0
Future Traffic Volume	794	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.75	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	58.3	25%	14.6
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				61.6

Benefit-Cost Calculation	Benefit Score	61.6
	Estimated Cost	\$1,143,000
	Estimated Users	9966
	Benefit-Cost Score	536.92



Project Number	28	Category	Roadway Capacity Expansion	Project Benefit Score	63.8
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	163	River Road (Rt 685)	US 29 Business	4.86
Proposed Improvement	Widen to 4 lanes with bike lane			Est. Cost	\$23,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.36	Low	33.3	20%	6.7
Existing Traffic Volume	476	High	100	20%	20.0
Future Traffic Volume	569	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.83	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	66.7	15%	10.0
	Total Project Benefit Score			63.8

Benefit-Cost Calculation	Benefit Score	63.8
	Estimated Cost	\$23,000,000
	Estimated Users	11720
	Benefit-Cost Score	32.53



Project Number	30	Category	Roadway Reconstruction	Project Benefit Score	60.6
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Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	Colony Road	210	Rt 163	Rt1034	0.35

Proposed Improvement	2 lane reconstruction with shoulder	Est. Cost	\$4,234,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.35	Low	33.3	20%	6.7
Existing Traffic Volume	251	Medium	66.7	20%	13.3
Future Traffic Volume	286	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					46.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.70	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.7	20%	9.3
	Safety	50.0	25%	12.5
	Economy	75.0	25%	18.8
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				60.6

Benefit-Cost Calculation	Benefit Score	60.6
	Estimated Cost	\$4,234,000
	Estimated Users	5096
	Benefit-Cost Score	72.91



Project Number	33	Category	Intersection Reconstruction	Project Benefit Score	73.9
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Forest Rd	221	Enterprise Dr (Rt 1415)	-	
Proposed Improvement	Intersection Reconstruction, install two RT turn lanes, sidewalks, ped features/modify signal, r/w			Est. Cost	\$5,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.8	Medium	66.7	20%	13.3
Future Congestion	0.8	Medium	66.7	20%	13.3
Existing Traffic Volume	1417	High	100	20%	20.0
Future Traffic Volume	1499	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	3.1	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	80.0	20%	16.0
	Safety	66.7	25%	16.7
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				73.9

Benefit-Cost Calculation	Benefit Score	73.9
	Estimated Cost	\$5,000,000
	Estimated Users	32250
	Benefit-Cost Score	476.77



Project Number	38	Category	Roadway Capacity Expansion	Project Benefit Score	67.0
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Lakeside Dr	221	Lynchburg Expressway (Rt 501)	Forest Brook Rd	1.76
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$19,163,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.98	Medium	66.7	20%	13.3
Future Congestion	1.12	High	100	20%	20.0
Existing Traffic Volume	775	High	100	20%	20.0
Future Traffic Volume	882	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					93.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.85	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					55.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	93.3	20%	18.7
	Safety	50.0	25%	12.5
	Economy	50.0	25%	12.5
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.6	15%	8.3
Total Project Benefit Score				67.0

Benefit-Cost Calculation	Benefit Score	67.0
	Estimated Cost	\$19,163,000
	Estimated Users	18764
	Benefit-Cost Score	65.61



Project Number	40	Category	Roadway Capacity Expansion	Project Benefit Score	70.4
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County, City of	East Lynchburg Salem Turnpike	460	Waterlick Rd (Rt 622)	Campbell Ave (Rt 501)	5.26

Proposed Improvement	Increase to 6 lanes	Est. Cost	\$200,970,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.65	Low	33.3	20%	6.7
Future Congestion	0.92	Medium	66.7	20%	13.3
Existing Traffic Volume	1448.43	High	100	20%	20.0
Future Traffic Volume	2066.14	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.18	Low	33.3	50%	16.7
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	66.7	25%	16.7
	Economy	75.0	25%	18.8
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				70.4

Benefit-Cost Calculation	Benefit Score	70.4
	Estimated Cost	\$200,970,000
	Estimated Users	56685.42857
	Benefit-Cost Score	19.86



Project Number	42	Category	Access Management and Safety	Project Benefit Score	72.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Timberlake Rd	460	Brush Tavern Dr	Crowell Ln	1.14
Proposed Improvement	Restricted Crossing U-Turn			Est. Cost	\$3,650,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.65	Low	33.3	20%	6.7
Future Congestion	0.97	Medium	66.7	20%	13.3
Existing Traffic Volume	1089	High	100	20%	20.0
Future Traffic Volume	1563	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.89	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	66.7	25%	16.7
		Economy	58.3	25%	14.6
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					72.6

Benefit-Cost Calculation	Benefit Score	72.6
	Estimated Cost	\$3,650,000
	Estimated Users	39806
	Benefit-Cost Score	791.69



Project Number	43	Category	Access Management and Safety	Project Benefit Score	78.4
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Timberlake Rd	460	Sunny Bank Dr	-	1.83

Proposed Improvement	Restricted Crossing U-Turn	Est. Cost	\$2,990,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.6	Low	33.3	20%	6.7
Future Congestion	0.9	Medium	66.7	20%	13.3
Existing Traffic Volume	1089	High	100	20%	20.0
Future Traffic Volume	1563	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.89	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	83.4	25%	20.8
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				78.4

Benefit-Cost Calculation	Benefit Score	78.4
	Estimated Cost	\$2,990,000
	Estimated Users	39806
	Benefit-Cost Score	1044.03



Project Number	44	Category	Access Management and Safety	Project Benefit Score	71.3
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Timberlake Rd	460	Shelor Dr	Enterprise Dr	1.35

Proposed Improvement	Restricted crossing U-turn, add EB left turn lane, optimize signal timing and add NB receiving lane at Enterprise	Est. Cost	\$5,710,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.65	Low	33.3	20%	6.7
Future Congestion	0.97	Medium	66.7	20%	13.3
Existing Traffic Volume	1089	High	100	20%	20.0
Future Traffic Volume	1563	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.89	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	66.7	25%	16.7
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				71.3

Benefit-Cost Calculation	Benefit Score	71.3
	Estimated Cost	\$5,710,000
	Estimated Users	39806
	Benefit-Cost Score	496.76



Project Number	46	Category	Access Management and Safety	Project Benefit Score	70.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Timberlake Rd	460	Wood Rd	Hooper/Charlie's Entrance	0.48
Proposed Improvement	Restricted crossing U-turn, install loon, add sidewalks, extend left lane storage			Est. Cost	\$5,590,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.72	Low	33.3	20%	6.7
Future Congestion	0.89	Medium	66.7	20%	13.3
Existing Traffic Volume	1203	High	100	20%	20.0
Future Traffic Volume	1482	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.83	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	83.4	25%	20.8
		Economy	50.0	25%	12.5
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
		Total Project Benefit Score			70.5

Benefit-Cost Calculation	Benefit Score	70.5
	Estimated Cost	\$5,590,000
	Estimated Users	39285
	Benefit-Cost Score	495.55



Project Number	47	Category	Access Management and Safety	Project Benefit Score	63.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Timberlake Rd	460	Timbrook Pl	Roundelay Rd	3.66
Proposed Improvement	Restricted crossing U-Turn			Est. Cost	\$9,480,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.63	Low	33.3	20%	6.7
Future Congestion	0.73	Low	33.3	20%	6.7
Existing Traffic Volume	1055	High	100	20%	20.0
Future Traffic Volume	1220.5	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.83	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	50.0	25%	12.5
	Economy	50.0	25%	12.5
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				63.3

Benefit-Cost Calculation	Benefit Score	63.3
	Estimated Cost	\$9,480,000
	Estimated Users	33592
	Benefit-Cost Score	224.41



Project Number	48	Category	Access Management and Safety	Project Benefit Score	62.9
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Timberlake Rd	460	Timber Ridge II Apartments Entrance	-	2.7
Proposed Improvement	Restricted crossing U-Turn			Est. Cost	\$855,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.5	Low	33.3	20%	6.7
Existing Traffic Volume	907	High	100	20%	20.0
Future Traffic Volume	959	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.84	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	50.0	25%	12.5
	Economy	41.7	25%	10.4
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				62.9

Benefit-Cost Calculation	Benefit Score	62.9
	Estimated Cost	\$855,000
	Estimated Users	27899
	Benefit-Cost Score	2052.76



Project Number	49	Category	Access Management and Safety	Project Benefit Score	64.6
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Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Timberlake Rd	460	Whitten Timberlake Chapel Entrance	Heritage Business Center Entrance	1.06

Proposed Improvement	Access Management Improvements	Est. Cost	\$1,870,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.54	Low	33.3	20%	6.7
Future Congestion	0.57	Low	33.3	20%	6.7
Existing Traffic Volume	907	High	100	20%	20.0
Future Traffic Volume	959	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.84	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	50.0	25%	12.5
	Economy	41.7	25%	10.4
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				64.6

Benefit-Cost Calculation	Benefit Score	64.6
	Estimated Cost	\$1,870,000
	Estimated Users	27899
	Benefit-Cost Score	963.48



Project Number	51	Category	Roadway Reconstruction	Project Benefit Score	57.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Boonsboro Rd	501	Winding Creek Ln (Rt 647)	-	
Proposed Improvement	Relocate intersection, construct turn lane			Est. Cost	\$1,880,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.43	Low	33.3	20%	6.7
Existing Traffic Volume	622	High	100	20%	20.0
Future Traffic Volume	652	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.42	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.6

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	33.3	25%	8.3
		Economy	66.7	25%	16.7
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	55.6	15%	8.3
Total Project Benefit Score					57.8

Benefit-Cost Calculation	Benefit Score	57.8
	Estimated Cost	\$1,880,000
	Estimated Users	3371
	Benefit-Cost Score	103.69



Project Number	52	Category	Roadway Capacity Expansion	Project Benefit Score	67.4
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Campbell Highway	501	Village Rd (Rt 24)	Suburban Rd (Rt 680)	2.22

Proposed Improvement	Widen to 4 lanes	Est. Cost	\$58,230,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.52	Low	33.3	20%	6.7
Future Congestion	0.73	Low	33.3	20%	6.7
Existing Traffic Volume	814	High	100	20%	20.0
Future Traffic Volume	1136	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.22	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	75.0	25%	18.8
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				67.4

Benefit-Cost Calculation	Benefit Score	67.4
	Estimated Cost	\$58,230,000
	Estimated Users	12286
	Benefit-Cost Score	14.22



Project Number	56	Category	Multimodal Capacity Expansion	Project Benefit Score	72.2
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Campbell Ave	501 Bus	Kemper St	Otey St	1.06
Proposed Improvement	VUL Gateway Roundabout, Road Diet (Kemper St to Otey St)			Est. Cost	\$3,800,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.54	Low	33.3	20%	6.7
Future Congestion	0.68	Low	33.3	20%	6.7
Existing Traffic Volume	915.67	High	100	20%	20.0
Future Traffic Volume	1132	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.72	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				72.2

Benefit-Cost Calculation	Benefit Score	72.2
	Estimated Cost	\$3,800,000
	Estimated Users	19087
	Benefit-Cost Score	362.49



Project Number	57	Category	Intersection Reconstruction	Project Benefit Score	76.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Campbell Ave	501 Bus	Florida Ave	-	
Proposed Improvement	Construct 2 lane Roundabout			Est. Cost	\$5,800,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.6	Low	33.3	20%	6.7
Future Congestion	0.9	Medium	66.7	20%	13.3
Existing Traffic Volume	1062	High	100	20%	20.0
Future Traffic Volume	1543	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	8.85	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					88.9

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	66.7	25%	16.7
		Economy	66.7	25%	16.7
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score					76.3

Benefit-Cost Calculation	Benefit Score	76.3
	Estimated Cost	\$5,800,000
	Estimated Users	25550
	Benefit-Cost Score	336.27



Project Number	60	Category	Intersection Reconstruction	Project Benefit Score	70.8
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Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	29/128	Wards Rd (US 29)	-	

Proposed Improvement	Bridge reconstruction, improvements on south, north & west intersection legs	Est. Cost	\$15,000,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.6	Low	33.3	20%	6.7
Existing Traffic Volume	692	High	100	20%	20.0
Future Traffic Volume	733	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.82	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					33.3

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	66.7	25%	16.7
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	33.3	15%	5.0
Total Project Benefit Score				70.8

Benefit-Cost Calculation	Benefit Score	70.8
	Estimated Cost	\$15,000,000
	Estimated Users	57655
	Benefit-Cost Score	272.24



Project Number	62	Category	Intersection Reconstruction	Project Benefit Score	80.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	501	Murray Pl	-	
Proposed Improvement	Long-term: Convert four-leg intersection to three-leg intersection and install left turn lane			Est. Cost	\$7,300,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.8	Medium	66.7	20%	13.3
Future Congestion	1.31	High	100	20%	20.0
Existing Traffic Volume	1291	High	100	20%	20.0
Future Traffic Volume	2124	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.31	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					55.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	86.7	20%	17.3
	Safety	83.4	25%	20.8
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.6	15%	8.3
Total Project Benefit Score				80.3

Benefit-Cost Calculation	Benefit Score	80.3
	Estimated Cost	\$7,300,000
	Estimated Users	57655
	Benefit-Cost Score	633.88



Project Number	63	Category	Roadway Capacity Expansion	Project Benefit Score	74.4
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	501/128E	Mayflower Dr (Rt 128)	-	
Proposed Improvement	Install left turn lane and extend right turn lane			Est. Cost	\$2,800,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.8	Medium	66.7	20%	13.3
Future Congestion	1.31	High	100	20%	20.0
Existing Traffic Volume	1291	High	100	20%	20.0
Future Traffic Volume	2124	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.87	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	86.7	20%	17.3
	Safety	66.7	25%	16.7
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				74.4

Benefit-Cost Calculation	Benefit Score	74.4
	Estimated Cost	\$2,800,000
	Estimated Users	21416
	Benefit-Cost Score	569.16



Project Number	64	Category	Roadway Reconstruction	Project Benefit Score	57.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Cottontown Rd	621	Hooper Rd (Rt 662)	Hawkins Mill Rd (Rt 660)	1.68
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$14,830,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.21	Low	33.3	20%	6.7
Future Congestion	0.26	Low	33.3	20%	6.7
Existing Traffic Volume	273.33	Medium	66.7	20%	13.3
Future Traffic Volume	370	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					53.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.56	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	53.3	20%	10.7
	Safety	50.0	25%	12.5
	Economy	41.7	25%	10.4
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				57.7

Benefit-Cost Calculation	Benefit Score	57.7
	Estimated Cost	\$14,830,000
	Estimated Users	3753
	Benefit-Cost Score	14.61



Project Number	65	Category	Roadway Reconstruction	Project Benefit Score	53.7
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Cottontown Rd	621	Coffee Rd (Rt 644)	Hooper Rd (Rt 662)	8.02

Proposed Improvement	Reconstruct 2 lane roadway	Est. Cost	\$33,220,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.05	Low	33.3	20%	6.7
Future Congestion	0.075	Low	33.3	20%	6.7
Existing Traffic Volume	61.5	Low	33.3	20%	6.7
Future Traffic Volume	97.5	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.90	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	50.0	25%	12.5
		Economy	41.7	25%	10.4
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					53.7

Benefit-Cost Calculation	Benefit Score	53.7
	Estimated Cost	\$33,220,000
	Estimated Users	1092.5
	Benefit-Cost Score	1.77



Project Number	66	Category	Roadway Reconstruction	Project Benefit Score	51.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Everett Rd	622	Kensington Pkwy	Gladden Cir (Rt 646)	3.97
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$25,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.05	Low	33.3	20%	6.7
Future Congestion	0.11	Low	33.3	20%	6.7
Existing Traffic Volume	66	Low	33.3	20%	6.7
Future Traffic Volume	146	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.64	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	0	Low	33.3	25%	8.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	33.3	20%	6.7
	Safety	50.0	25%	12.5
	Economy	33.3	25%	8.3
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				51.7

Benefit-Cost Calculation	Benefit Score	51.7
	Estimated Cost	\$25,000,000
	Estimated Users	948
	Benefit-Cost Score	1.96



Project Number	67	Category	Roadway Reconstruction	Project Benefit Score	61.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	New Wright Shop Rd	622	Colony Rd (Rt 210)	Dixie Airport Rd (Rt 677)	5.55
Proposed Improvement	Reconstruct 2 lane road			Est. Cost	\$19,629,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.27	Low	33.3	20%	6.7
Future Congestion	0.2875	Low	33.3	20%	6.7
Existing Traffic Volume	347.25	High	100	20%	20.0
Future Traffic Volume	445.5	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.63	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	50.0	25%	12.5
		Economy	58.3	25%	14.6
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					61.6

Benefit-Cost Calculation	Benefit Score	61.6
	Estimated Cost	\$19,629,000
	Estimated Users	6200.25
	Benefit-Cost Score	19.45



Project Number	68	Category	Roadway Capacity Expansion	Project Benefit Score	62.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Waterlick Rd	622	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	0.9
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$24,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.32	Low	33.3	20%	6.7
Future Congestion	0.49	Low	33.3	20%	6.7
Existing Traffic Volume	510	High	100	20%	20.0
Future Traffic Volume	828	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.79	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	66.7	25%	16.7
		Economy	58.3	25%	14.6
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score					62.6

Benefit-Cost Calculation	Benefit Score	62.6
	Estimated Cost	\$24,000,000
	Estimated Users	16001
	Benefit-Cost Score	41.72



Project Number	69	Category	Roadway Capacity Expansion	Project Benefit Score	69.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Waterlick Rd	622	Bedford County Corp Limit	Rainbow Forest Dr (Rt 1520)	1.12
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$28,990,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.64	Low	33.3	20%	6.7
Future Congestion	1.1	High	100	20%	20.0
Existing Traffic Volume	537	High	100	20%	20.0
Future Traffic Volume	922	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					86.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.50	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	86.7	20%	17.3
		Safety	66.7	25%	16.7
		Economy	66.7	25%	16.7
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	44.4	15%	6.7
		Total Project Benefit Score			69.8

Benefit-Cost Calculation	Benefit Score	69.8
	Estimated Cost	\$28,990,000
	Estimated Users	21644
	Benefit-Cost Score	52.15



Project Number	70	Category	Roadway Capacity Expansion	Project Benefit Score	63.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Waterlick Rd	622	Timberlake Rd (US 460)	Leesville Rd (Rt 682)	0.93
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$24,220,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.38	Low	33.3	20%	6.7
Future Congestion	0.46	Low	33.3	20%	6.7
Existing Traffic Volume	605	High	100	20%	20.0
Future Traffic Volume	788	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.50	Low	33.3	50%	16.7
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	66.7	20%	13.3
		Safety	66.7	25%	16.7
		Economy	58.3	25%	14.6
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	44.4	15%	6.7
		Total Project Benefit Score			63.7

Benefit-Cost Calculation	Benefit Score	63.7
	Estimated Cost	\$24,220,000
	Estimated Users	16616
	Benefit-Cost Score	43.73



Project Number	72	Category	Roadway Reconstruction	Project Benefit Score	47.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Turkey Foot Rd	623	Thomas Jefferson Rd (Rt 811)	Campbell County Corp Limits	1.24
Proposed Improvement	Widen pavement to 24 ft			Est. Cost	\$10,470,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.06	Low	33.3	20%	6.7
Future Congestion	0.06	Low	33.3	20%	6.7
Existing Traffic Volume	95	Low	33.3	20%	6.7
Future Traffic Volume	109	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.00	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	0	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	33.3	25%	8.3
		Economy	50.0	25%	12.5
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					47.5

Benefit-Cost Calculation	Benefit Score	47.5
	Estimated Cost	\$10,470,000
	Estimated Users	1718
	Benefit-Cost Score	7.79



Project Number	73	Category	Roadway Reconstruction	Project Benefit Score	52.1
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Coffee Rd	644	Elk Valley Rd (Rt 665N)	Lynchburg Corp Limit	8.9
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$52,330,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.046	Low	33.3	20%	6.7
Future Congestion	0.068	Low	33.3	20%	6.7
Existing Traffic Volume	60	Low	33.3	20%	6.7
Future Traffic Volume	84.2	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.64	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	50.0	25%	12.5
		Economy	41.7	25%	10.4
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					52.1

Benefit-Cost Calculation	Benefit Score	52.1
	Estimated Cost	\$52,330,000
	Estimated Users	664
	Benefit-Cost Score	0.66



Project Number	74	Category	Roadway Reconstruction	Project Benefit Score	49.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Cedar Gate Rd	652	Rt 657	Rt 675	1
Proposed Improvement	2 lane reconstruction			Est. Cost	\$7,270,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.08	Low	33.3	20%	6.7
Future Congestion	0.1	Low	33.3	20%	6.7
Existing Traffic Volume	97	Low	33.3	20%	6.7
Future Traffic Volume	131	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.00	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	33.3	25%	8.3
		Economy	41.7	25%	10.4
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					49.6

Benefit-Cost Calculation	Benefit Score	49.6
	Estimated Cost	\$7,270,000
	Estimated Users	970
	Benefit-Cost Score	6.61



Project Number	75	Category	Roadway Reconstruction	Project Benefit Score	49.2
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Hawkins Mill Rd	659	Old Farm Rd (Rt 660)	Lynchburg Corp Limits	1.46
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$25,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.11	Low	33.3	20%	6.7
Future Congestion	0.12	Low	33.3	20%	6.7
Existing Traffic Volume	137	Low	33.3	20%	6.7
Future Traffic Volume	156	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.26	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	33.3	25%	8.3
		Economy	41.7	25%	10.4
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					49.2

Benefit-Cost Calculation	Benefit Score	49.2
	Estimated Cost	\$25,000,000
	Estimated Users	1631
	Benefit-Cost Score	3.21



Project Number	77	Category	Roadway Reconstruction	Project Benefit Score	57.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Izaak Walton Rd	663	Glade Rd (Rt 130)	S Coolwell Rd (Rt 604)	6.47
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$29,740,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.18	Low	33.3	20%	6.7
Future Congestion	0.21	Low	33.3	20%	6.7
Existing Traffic Volume	239.67	Medium	66.7	20%	13.3
Future Traffic Volume	302	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					53.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.74	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	53.3	20%	10.7
	Safety	50.0	25%	12.5
	Economy	41.7	25%	10.4
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				57.7

Benefit-Cost Calculation	Benefit Score	57.7
	Estimated Cost	\$29,740,000
	Estimated Users	3558
	Benefit-Cost Score	6.91



Project Number	78	Category	Roadway Reconstruction	Project Benefit Score	57.2
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Perrowville Rd	663	Quail Ridge Rd (Rt 1431)	Coffee Rd (Rt 644)	2.1
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$17,440,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.1	Low	33.3	20%	6.7
Future Congestion	0.15	Low	33.3	20%	6.7
Existing Traffic Volume	124	Low	33.3	20%	6.7
Future Traffic Volume	198	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.64	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	40.0	20%	8.0
	Safety	50.0	25%	12.5
	Economy	50.0	25%	12.5
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				57.2

Benefit-Cost Calculation	Benefit Score	57.2
	Estimated Cost	\$17,440,000
	Estimated Users	1945
	Benefit-Cost Score	6.38



Project Number	79	Category	Roadway Capacity Expansion	Project Benefit Score	68.4
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Candlers Mtn Rd	501	Mayflower Dr (Rt 128)	Richmond Highway (US 460)	3.63
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$20,040,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.33	Low	33.3	20%	6.7
Existing Traffic Volume	487.5	High	100	20%	20.0
Future Traffic Volume	549.5	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.93	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	75.0	25%	18.8
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				68.4

Benefit-Cost Calculation	Benefit Score	68.4
	Estimated Cost	\$20,040,000
	Estimated Users	13605.5
	Benefit-Cost Score	46.45



Project Number	80	Category	Roadway Reconstruction	Project Benefit Score	47.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Winesap Rd	675	Rt 652	Rt 795	3.13
Proposed Improvement	Widen pavement to 22 ft			Est. Cost	\$20,490,000

Benefit Score Calculation
Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.03	Low	33.3	20%	6.7
Future Congestion	0.04	Low	33.3	20%	6.7
Existing Traffic Volume	43	Low	33.3	20%	6.7
Future Traffic Volume	48	Low	33.3	20%	6.7
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					33.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.00	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	33.3	20%	6.7
		Safety	33.3	25%	8.3
		Economy	33.3	25%	8.3
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					47.5

Benefit-Cost Calculation	Benefit Score	47.5
	Estimated Cost	\$20,490,000
	Estimated Users	459
	Benefit-Cost Score	1.06



Project Number	81	Category	Roadway Reconstruction	Project Benefit Score	50.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Dixie Airport Rd	677	Amelon Rd (Rt 699)	Galts Mill Rd (Rt 622)	1.54
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$11,890,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.29	Low	33.3	20%	6.7
Future Congestion	0.325	Low	33.3	20%	6.7
Existing Traffic Volume	373.5	High	100	20%	20.0
Future Traffic Volume	426.5	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.76	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	33.3	25%	8.3
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				50.3

Benefit-Cost Calculation	Benefit Score	50.3
	Estimated Cost	\$11,890,000
	Estimated Users	4373.5
	Benefit-Cost Score	18.51



Project Number	83	Category	Roadway Capacity Expansion	Project Benefit Score	57.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Leesville Rd	682	City of Lynchburg corp limits	Richmond Highway (US 460)	2.96
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$29,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.29	Low	33.3	20%	6.7
Future Congestion	0.345	Low	33.3	20%	6.7
Existing Traffic Volume	498	High	100	20%	20.0
Future Traffic Volume	603.5	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.35	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				57.8

Benefit-Cost Calculation	Benefit Score	57.8
	Estimated Cost	\$29,000,000
	Estimated Users	14829
	Benefit-Cost Score	29.57



Project Number	84	Category	Roadway Reconstruction	Project Benefit Score	69.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Woody's Lake Rd	682	South Amherst Highway (US 29 Business)	End	0.79
Proposed Improvement	Reconstruct roadway			Est. Cost	\$8,350,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.2	Low	33.3	20%	6.7
Future Congestion	0.24	Low	33.3	20%	6.7
Existing Traffic Volume	259	Medium	66.7	20%	13.3
Future Traffic Volume	310	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.87	High	100	50%	50.0
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	83.4	25%	20.8
		Economy	50.0	25%	12.5
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score					69.5

Benefit-Cost Calculation	Benefit Score	69.5
	Estimated Cost	\$8,350,000
	Estimated Users	3178
	Benefit-Cost Score	26.45



Project Number	85	Category	Roadway Reconstruction	Project Benefit Score	49.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	River Rd	685	NS Railroad	Rt 163	6.35
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$24,880,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.11	Low	33.3	20%	6.7
Future Congestion	0.145	Low	33.3	20%	6.7
Existing Traffic Volume	138	Low	33.3	20%	6.7
Future Traffic Volume	184.5	Medium	66.7	20%	13.3
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					46.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.49	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.7	20%	9.3
	Safety	33.3	25%	8.3
	Economy	41.7	25%	10.4
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				49.7

Benefit-Cost Calculation	Benefit Score	49.7
	Estimated Cost	\$24,880,000
	Estimated Users	1217.5
	Benefit-Cost Score	2.43



Project Number	86	Category	Roadway Reconstruction	Project Benefit Score	53.0
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	River Rd	685	Rt 130	NS Railroad	3.84
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$31,160,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.04	Low	33.3	20%	6.7
Future Congestion	0.07	Low	33.3	20%	6.7
Existing Traffic Volume	58	Low	33.3	20%	6.7
Future Traffic Volume	95	Low	33.3	20%	6.7
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.73	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	40.0	20%	8.0
	Safety	50.0	25%	12.5
	Economy	33.3	25%	8.3
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				53.0

Benefit-Cost Calculation	Benefit Score	53.0
	Estimated Cost	\$31,160,000
	Estimated Users	635
	Benefit-Cost Score	1.08



Project Number	87	Category	Roadway Reconstruction	Project Benefit Score	57.4
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Mt. Athos Rd	726	Richmond Highway (US 460)	BWXT	2.43
Proposed Improvement	Upgrade existing 2 lane road			Est. Cost	\$15,780,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.46	Low	33.3	20%	6.7
Future Congestion	0.58	Low	33.3	20%	6.7
Existing Traffic Volume	641	High	100	20%	20.0
Future Traffic Volume	801	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.17	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	33.3	25%	8.3
		Economy	58.3	25%	14.6
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					57.4

Benefit-Cost Calculation	Benefit Score	57.4
	Estimated Cost	\$15,780,000
	Estimated Users	7969
	Benefit-Cost Score	28.99



Project Number	88	Category	Roadway Reconstruction	Project Benefit Score	60.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	English Tavern Rd	738	Suburban Rd (Rt 680)	Wards Rd (US 29)	1.21
Proposed Improvement	Widen to 24 ft			Est. Cost	\$14,500,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.17	Low	33.3	20%	6.7
Future Congestion	0.16	Low	33.3	20%	6.7
Existing Traffic Volume	217	Medium	66.7	20%	13.3
Future Traffic Volume	223.33	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					46.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.65	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.7	20%	9.3
	Safety	66.7	25%	16.7
	Economy	58.3	25%	14.6
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				60.6

Benefit-Cost Calculation	Benefit Score	60.6
	Estimated Cost	\$14,500,000
	Estimated Users	3086
	Benefit-Cost Score	12.89



Project Number	89	Category	Roadway Reconstruction	Project Benefit Score	67.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	English Tavern Rd	738	Wards Rd (US 29)	Suburban Rd (Rt 680)	2.42
Proposed Improvement	Widen to 24 ft			Est. Cost	\$11,630,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.26	Low	33.3	20%	6.7
Future Congestion	0.265	Low	33.3	20%	6.7
Existing Traffic Volume	336	High	100	20%	20.0
Future Traffic Volume	422	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.59	High	100	50%	50.0
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	83.4	25%	20.8
		Economy	50.0	25%	12.5
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					67.8

Benefit-Cost Calculation	Benefit Score	67.8
	Estimated Cost	\$11,630,000
	Estimated Users	6396
	Benefit-Cost Score	37.30



Project Number	90	Category	Roadway Reconstruction	Project Benefit Score	58.4
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	Winridge Rd	795	Rt 130	Rt 675	0.8
Proposed Improvement	Reconstruct 2 lane roadway			Est. Cost	\$10,930,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.09	Low	33.3	20%	6.7
Future Congestion	0.16	Low	33.3	20%	6.7
Existing Traffic Volume	110	Low	33.3	20%	6.7
Future Traffic Volume	202	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					40.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.75	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					88.9

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	40.0	20%	8.0
		Safety	66.7	25%	16.7
		Economy	41.7	25%	10.4
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score					58.4

Benefit-Cost Calculation	Benefit Score	58.4
	Estimated Cost	\$10,930,000
	Estimated Users	1679
	Benefit-Cost Score	8.97



Project Number	91	Category	Roadway Capacity Expansion	Project Benefit Score	54.7
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Thomas Jefferson Rd	811	Waterlick Rd (Rt 622)	Great Oak Rd (Rt 704)	3.61
Proposed Improvement	Widen to 4 lanes			Est. Cost	\$56,910,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.26	Low	33.3	20%	6.7
Future Congestion	0.38	Low	33.3	20%	6.7
Existing Traffic Volume	412	High	100	20%	20.0
Future Traffic Volume	597.67	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.47	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	33.3	25%	8.3
		Economy	50.0	25%	12.5
		Community and Nature	83.4	15%	12.5
		Operational Efficiency	44.4	15%	6.7
		Total Project Benefit Score			54.7

Benefit-Cost Calculation	Benefit Score	54.7
	Estimated Cost	\$56,910,000
	Estimated Users	9220.333333
	Benefit-Cost Score	8.86



Project Number	92	Category	Roadway Capacity Expansion	Project Benefit Score	60.5
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Thomas Jefferson Rd	811	Great Oak Rd (Rt 704)	US 460	1.43

Proposed Improvement	Widen to 4 lanes	Est. Cost	\$29,690,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.26	Low	33.3	20%	6.7
Future Congestion	0.4	Low	33.3	20%	6.7
Existing Traffic Volume	412	High	100	20%	20.0
Future Traffic Volume	633	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.70	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	66.7	25%	16.7
	Economy	50.0	25%	12.5
	Community and Nature	66.7	15%	10.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				60.5

Benefit-Cost Calculation	Benefit Score	60.5
	Estimated Cost	\$29,690,000
	Estimated Users	9963
	Benefit-Cost Score	20.30



Project Number	93	Category	Intersection Reconstruction	Project Benefit Score	59.7
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Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Thomas Jefferson Rd	811	Forest Rd (Rt 221)	Turkey Foot Rd (Rt 623)	3.66

Proposed Improvement	Intersection improvements and roadway widening	Est. Cost	\$87,000,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.68	Low	33.3	20%	6.7
Future Congestion	1.06	Medium	66.7	20%	13.3
Existing Traffic Volume	626.33	High	100	20%	20.0
Future Traffic Volume	950	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.55	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	80.0	20%	16.0
	Safety	50.0	25%	12.5
	Economy	41.7	25%	10.4
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score				59.7

Benefit-Cost Calculation	Benefit Score	59.7
	Estimated Cost	\$87,000,000
	Estimated Users	18548
	Benefit-Cost Score	12.74



Project Number	95	Category	Roadway Reconstruction	Project Benefit Score	81.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Lynchburg Expwy	29/501	Candlers Mountain Rd (Rt 501)	-	
Proposed Improvement	Install auxiliary lanes and realign NB entrance ramp			Est. Cost	\$18,800,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.64	Low	33.3	20%	6.7
Existing Traffic Volume	1212	High	100	20%	20.0
Future Traffic Volume	1509	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.36	High	100	50%	50.0
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	83.4	25%	20.8
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				81.3

Benefit-Cost Calculation	Benefit Score	81.3
	Estimated Cost	\$18,800,000
	Estimated Users	57655
	Benefit-Cost Score	249.19



Project Number	96	Category	Access Management and Safety	Project Benefit Score	80.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	501	Murray Pl	-	
Proposed Improvement	Close unsignalized intersection and reroute traffic to the signalized intersection on Candlers Mountain Road at Murray Place/River Ridge Mall			Est. Cost	\$70,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.8	Medium	66.7	20%	13.3
Future Congestion	1.31	High	100	20%	20.0
Existing Traffic Volume	1291	High	100	20%	20.0
Future Traffic Volume	2124	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					80.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.31	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	80.0	20%	16.0
	Safety	83.4	25%	20.8
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				80.6

Benefit-Cost Calculation	Benefit Score	80.6
	Estimated Cost	\$70,000
	Estimated Users	57655
	Benefit-Cost Score	66375.32



Project Number	97	Category	Intersection Reconstruction	Project Benefit Score	66.6
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	501	Carroll Avenue	-	
Proposed Improvement	Extend northbound acceleration lane			Est. Cost	\$5,250,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.66	Low	33.3	20%	6.7
Existing Traffic Volume	1180	High	100	20%	20.0
Future Traffic Volume	1562	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	3.62	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	60.0	20%	12.0
		Safety	66.7	25%	16.7
		Economy	58.4	25%	14.6
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score					66.6

Benefit-Cost Calculation	Benefit Score	66.6
	Estimated Cost	\$5,250,000
	Estimated Users	51272
	Benefit-Cost Score	650.19



Project Number	98	Category	Roadway Capacity Expansion	Project Benefit Score	62.4
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Lynchburg Expressway	501	Miller St	Kemper St	
Proposed Improvement	Install southbound auxiliary lane			Est. Cost	\$9,700,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.64	Low	33.3	20%	6.7
Existing Traffic Volume	1068	High	100	20%	20.0
Future Traffic Volume	1496	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.51	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					58.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	58.4	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score				62.4

Benefit-Cost Calculation	Benefit Score	62.4
	Estimated Cost	\$9,700,000
	Estimated Users	50143
	Benefit-Cost Score	322.64



Project Number	102	Category	New Roadway	Project Benefit Score	48.9
Jurisdiction	Route Name	Route	From	To	Length (mi)
Amherst County	New Road		S. Amherst Highway (US 29 Bus)	Fernwood Dr	0.62
Proposed Improvement	New 2 lane connector road			Est. Cost	\$7,220,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion		Low	33.3	20%	6.7
Future Congestion		Low	33.3	20%	6.7
Existing Traffic Volume		Low	33.3	20%	6.7
Future Traffic Volume		Low	33.3	20%	6.7
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate		Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)		Low	33.3	25%	8.3
Total Economy Score					41.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	33.3	25%	8.3
	Economy	41.7	25%	10.4
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	55.6	15%	8.3
Total Project Benefit Score				48.9

Benefit-Cost Calculation	Benefit Score	48.9
	Estimated Cost	\$7,220,000
	Estimated Users	1000
	Benefit-Cost Score	6.77



Project Number	103	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Downtown Streets	-	-	-	-
Proposed Improvement	Implement downtown complete streets remaining blocks after Phases A, B & C			Est. Cost	\$42,960,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion		Low	33.3	20%	6.7
Future Congestion		Low	33.3	20%	6.7
Existing Traffic Volume		Low	33.3	20%	6.7
Future Traffic Volume		Low	33.3	20%	6.7
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate		Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)		Low	33.3	25%	8.3
Total Economy Score					83.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	50.0	25%	12.5
	Economy	83.3	25%	20.8
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				61.8

Benefit-Cost Calculation	Benefit Score	61.8
	Estimated Cost	\$42,960,000
	Estimated Users	20000
	Benefit-Cost Score	28.78



Project Number	104	Category	Intersection Reconstruction	Project Benefit Score	73.0
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Wards Ferry Rd	6070/368	CVCC Campus Dr	-	
Proposed Improvement			Construct Single Lane Roundabout	Est. Cost	\$4,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.55	Low	33.3	20%	6.7
Existing Traffic Volume	596	High	100	20%	20.0
Future Traffic Volume	932	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.95	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					66.7

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	73.3	20%	14.7
		Safety	66.7	25%	16.7
		Economy	66.7	25%	16.7
		Community and Nature	100.0	15%	15.0
		Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score					73.0

Benefit-Cost Calculation	Benefit Score	73.0
	Estimated Cost	\$4,000,000
	Estimated Users	17013
	Benefit-Cost Score	310.44



Project Number	105	Category	Intersection Reconstruction	Project Benefit Score	60.3
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Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Wards Ferry Rd	6070	Atlanta Ave	-	

Proposed Improvement	Add turn lanes	Est. Cost	\$570,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.55	Low	33.3	20%	6.7
Existing Traffic Volume	575	High	100	20%	20.0
Future Traffic Volume	932	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.42	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	1	Low	33.3	25%	8.3
Total Economy Score					50.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.6

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	50.0	25%	12.5
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.6	15%	8.3
Total Project Benefit Score				60.3

Benefit-Cost Calculation	Benefit Score	60.3
	Estimated Cost	\$570,000
	Estimated Users	17013
	Benefit-Cost Score	1800.54



Project Number	112	Category	New Roadway	Project Benefit Score	57.2
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	James River Scenic Parkway	-	Concord Tpke	Main St	2.7
Proposed Improvement	Design and build the James River Scenic Parkway			Est. Cost	\$48,200,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.19	Low	33.3	20%	6.7
Future Congestion	0.22	Low	33.3	20%	6.7
Existing Traffic Volume	238	Medium	66.7	20%	13.3
Future Traffic Volume	271	Medium	66.7	20%	13.3
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					46.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.52	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					66.7

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score		Vision Theme	Points	Weight	Score
		Mobility and Accessibility	46.7	20%	9.3
		Safety	50.0	25%	12.5
		Economy	75.0	25%	18.8
		Community and Nature	66.7	15%	10.0
		Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score					57.2

Benefit-Cost Calculation	Benefit Score	57.2
	Estimated Cost	\$48,200,000
	Estimated Users	6179
	Benefit-Cost Score	7.34



Project Number	115	Category	Intersection Reconstruction	Project Benefit Score	64.1
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	6009	US 501 Southbound Ramp	-	
Proposed Improvement		Priority I Projects: additional EB lane on Creekside, widen SB ramp		Est. Cost	\$6,540,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.4	Low	33.3	20%	6.7
Future Congestion	0.46	Low	33.3	20%	6.7
Existing Traffic Volume	782	High	100	20%	20.0
Future Traffic Volume	867	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.77	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					58.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					66.7

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	58.4	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	66.7	15%	10.0
Total Project Benefit Score				64.1

Benefit-Cost Calculation	Benefit Score	64.1
	Estimated Cost	\$6,540,000
	Estimated Users	29729
	Benefit-Cost Score	291.31



Project Number	116	Category	Roadway Capacity Expansion	Project Benefit Score	65.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Bedford County	Graves Mill Rd	6009	Gristmill Dr (Rt 1426)	-	
Proposed Improvement	Priority I Projects (Sidewalk, turn lanes, add lane, curb and gutter, replace signal, ped features, overhead and underground utilities)			Est. Cost	\$3,500,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.77	Low	33.3	20%	6.7
Existing Traffic Volume	860	High	100	20%	20.0
Future Traffic Volume	1174	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.03	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Moderate impact	Medium	66.7	50%	33.4
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	66.7	25%	16.7
	Economy	66.7	25%	16.7
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				65.8

Benefit-Cost Calculation	Benefit Score	65.8
	Estimated Cost	\$3,500,000
	Estimated Users	50935
	Benefit-Cost Score	958.03



Project Number	117	Category	Roadway Reconstruction	Project Benefit Score	65.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	6009	Creekside Dr	-	
Proposed Improvement	Priority II Projects: widening & pedestrian improvements (RT turn lane, ped features, modify signal, utility adjustments, stormwater, sidewalk, r/w)			Est. Cost	\$1,600,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.6	Low	33.3	20%	6.7
Future Congestion	0.98	Medium	66.7	20%	13.3
Existing Traffic Volume	782	High	100	20%	20.0
Future Traffic Volume	1485	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.88	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				65.5

Benefit-Cost Calculation	Benefit Score	65.5
	Estimated Cost	\$1,600,000
	Estimated Users	50935
	Benefit-Cost Score	2085.41



Project Number	118	Category	Intersection Reconstruction	Project Benefit Score	71.2
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	6009	McConville Rd	-	
Proposed Improvement	Priority II Projects: install single lane roundabout			Est. Cost	\$4,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.4	Low	33.3	20%	6.7
Existing Traffic Volume	440	High	100	20%	20.0
Future Traffic Volume	640	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.7	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	66.7	25%	16.7
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				71.2

Benefit-Cost Calculation	Benefit Score	71.2
	Estimated Cost	\$4,000,000
	Estimated Users	17630
	Benefit-Cost Score	313.64



Project Number	119	Category	Intersection Reconstruction	Project Benefit Score	64.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	6009	Millrace Dr	-	
Proposed Improvement	Priority II Projects: install turn lane & access management (turn lane, sidewalk, utility adjustments, signal modifications, ped features)			Est. Cost	\$1,700,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.78	Low	33.3	20%	6.7
Existing Traffic Volume	782	High	100	20%	20.0
Future Traffic Volume	1485	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.54	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					55.5

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	55.5	15%	8.3
Total Project Benefit Score				64.5

Benefit-Cost Calculation	Benefit Score	64.5
	Estimated Cost	\$1,700,000
	Estimated Users	50935
	Benefit-Cost Score	1932.38



Project Number	120	Category	Roadway Reconstruction	Project Benefit Score	70.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	6009	Millrace Dr	Millside Dr	
Proposed Improvement	Priority II Projects: install median, widening & add multiuse path			Est. Cost	\$8,800,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.41	Low	33.3	20%	6.7
Future Congestion	0.78	Low	33.3	20%	6.7
Existing Traffic Volume	782	High	100	20%	20.0
Future Traffic Volume	1485	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.54	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				70.5

Benefit-Cost Calculation	Benefit Score	70.5
	Estimated Cost	\$8,800,000
	Estimated Users	50935
	Benefit-Cost Score	408.11



Project Number	122	Category	Roadway Reconstruction	Project Benefit Score	69.7
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Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Graves Mill Rd	501/6009	Us 501 Interchange	-	

Proposed Improvement	Priority III Projects: install diverging diamond, includes bridge replacement	Est. Cost	\$30,400,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.5	Low	33.3	20%	6.7
Future Congestion	0.76	Low	33.3	20%	6.7
Existing Traffic Volume	1297	High	100	20%	20.0
Future Traffic Volume	1834	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	2.7	High	100	50%	50.0
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	4	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	No other plans	Low	33.3	33%	11.1
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	66.7	25%	16.7
	Economy	66.7	25%	16.7
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				69.7

Benefit-Cost Calculation	Benefit Score	69.7
	Estimated Cost	\$30,400,000
	Estimated Users	67260
	Benefit-Cost Score	154.12



Project Number	123	Category	New Roadway	Project Benefit Score	50.3
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	McConville Rd	6073	Wyndale Rd	Lakeside Dr (Rt 221)	
Proposed Improvement	Extend McConville Rd to intersect Rt 221 at a signalized intersection			Est. Cost	\$2,430,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.34	Low	33.3	20%	6.7
Future Congestion	0.4	Low	33.3	20%	6.7
Existing Traffic Volume	440	High	100	20%	20.0
Future Traffic Volume	640	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.34	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Doesn't support CEDS	Low	33.3	25%	8.3
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	0	Low	33.3	25%	8.3
Total Economy Score					33.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires significant ROW	Low	33.3	33%	11.1
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					44.4

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	33.3	25%	8.3
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	44.4	15%	6.7
Total Project Benefit Score				50.3

Benefit-Cost Calculation	Benefit Score	50.3
	Estimated Cost	\$2,430,000
	Estimated Users	7813
	Benefit-Cost Score	161.76



Project Number	142	Category	Multimodal Capacity Expansion	Project Benefit Score	76.3
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Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Campbell Ave	501	Fairview Ave	Florida Ave	1.35

Proposed Improvement	Road Diet - restriping	Est. Cost	\$2,160,000
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Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.54	Low	33.3	20%	6.7
Future Congestion	0.68	Low	33.3	20%	6.7
Existing Traffic Volume	915	High	100	20%	20.0
Future Traffic Volume	1130	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.26	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	2	Medium	66.7	25%	16.7
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				76.3

Benefit-Cost Calculation	Benefit Score	76.3
	Estimated Cost	\$2,160,000
	Estimated Users	7813
	Benefit-Cost Score	276.12



Project Number	143	Category	Access Management and Safety	Project Benefit Score	71.7
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Amherst County	South Amherst Highway	29	Route 163	S Coolwell Road (Rt 694)	4.31
Proposed Improvement	Potential phased approach			Est. Cost	\$20,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.578	Low	33.3	20%	6.7
Future Congestion	0.906	Medium	66.7	20%	13.3
Existing Traffic Volume	1010.6	High	100	20%	20.0
Future Traffic Volume	1548	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.78	Medium	66.7	50%	33.4
PSI Locations	Top 20 PSI location present	High	100	50%	50.0
Total Safety Score					83.4

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	3	Medium	66.7	25%	16.7
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	83.4	25%	20.8
	Economy	66.7	25%	16.7
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				71.7

Benefit-Cost Calculation	Benefit Score	71.7
	Estimated Cost	\$20,000,000
	Estimated Users	37938.4
	Benefit-Cost Score	135.96



Project Number	144	Category	Roadway Reconstruction	Project Benefit Score	73.3
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
City of Lynchburg	Candlers Mountain Rd	128	Wards Rd (US 29)	Seminole Ave	0.16
Proposed Improvement	Access management, ROW acquisition, road improvements on the eastern intersection leg			Est. Cost	\$10,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.46	Low	33.3	20%	6.7
Future Congestion	0.60	Low	33.3	20%	6.7
Existing Traffic Volume	692	High	100	20%	20.0
Future Traffic Volume	910	High	100	20%	20.0
Alternative Transportation Facilities	One facility	Medium	66.7	20%	13.3
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.05	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	8	High	100	25%	25.0
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	Two localities	Medium	66.7	33%	22.2
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	50.0	25%	12.5
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				73.3

Benefit-Cost Calculation	Benefit Score	73.3
	Estimated Cost	\$10,000,000
	Estimated Users	37938.4
	Benefit-Cost Score	278.24



Project Number	145	Category	Access Management and Safety	Project Benefit Score	61.6
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	East Lynchburg Salem Turnpike	460	Meade Rd	-	-
Proposed Improvement	Restricted Crossing U-Turn			Est. Cost	\$2,950,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.28	Low	33.3	20%	6.7
Future Congestion	0.33	Low	33.3	20%	6.7
Existing Traffic Volume	611	High	100	20%	20.0
Future Traffic Volume	730	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.35	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Low	Low	33.3	25%	8.3
Freight Volume (%)	9	High	100	25%	25.0
Total Economy Score					58.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	58.3	25%	14.6
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				61.6

Benefit-Cost Calculation	Benefit Score	61.6
	Estimated Cost	\$2,950,000
	Estimated Users	21995
	Benefit-Cost Score	459.08



Project Number	146	Category	Access Management and Safety	Project Benefit Score	69.5
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Bedford County	East Lynchburg Salem Turnpike	460	Meade Rd	-	-
Proposed Improvement	Thomas Jefferson Rd (Rt 811)			Est. Cost	\$6,550,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.52	Low	33.3	20%	6.7
Future Congestion	0.66	Low	33.3	20%	6.7
Existing Traffic Volume	798	High	100	20%	20.0
Future Traffic Volume	1027	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.69	Medium	66.7	50%	33.4
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					66.7

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	10	High	100	25%	25.0
Total Economy Score					66.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					83.4

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	66.7	25%	16.7
	Economy	66.7	25%	16.7
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				69.5

Benefit-Cost Calculation	Benefit Score	69.5
	Estimated Cost	\$6,550,000
	Estimated Users	23685
	Benefit-Cost Score	251.36



Project Number	147	Category	Access Management and Safety	Project Benefit Score	71.3
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Lynchburg Hwy	460	Turkey Foot Rd	-	-
Proposed Improvement	Median closure, construct two median openings with loons			Est. Cost	\$6,188,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.68	Low	33.3	20%	6.7
Future Congestion	0.85	Medium	66.7	20%	13.3
Existing Traffic Volume	1050	High	100	20%	20.0
Future Traffic Volume	1300	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	1.42	Medium	66.7	50%	33.4
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	10	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	50.0	25%	12.5
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				71.3

Benefit-Cost Calculation	Benefit Score	71.3
	Estimated Cost	\$6,188,000
	Estimated Users	30181
	Benefit-Cost Score	347.52



Project Number	148	Category	Access Management and Safety	Project Benefit Score	68.7
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Lynchburg Hwy	460	New London Dr	-	-
Proposed Improvement	Restricted Crossing U-Turn			Est. Cost	\$3,370,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.68	Low	33.3	20%	6.7
Future Congestion	0.85	Medium	66.7	20%	13.3
Existing Traffic Volume	1050	High	100	20%	20.0
Future Traffic Volume	1300	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					66.7

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.36	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	10	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	66.7	20%	13.3
	Safety	33.3	25%	8.3
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				68.7

Benefit-Cost Calculation	Benefit Score	68.7
	Estimated Cost	\$3,370,000
	Estimated Users	30181
	Benefit-Cost Score	615.64



Project Number	149	Category	Access Management and Safety	Project Benefit Score	67.4
Jurisdiction	Route Name	Route Number	From	To	Length (mi)
Campbell County	Richmond Highway	460	Village Hwy	-	-
Proposed Improvement	Restricted Crossing U-Turn			Est. Cost	\$6,290,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.32	Low	33.3	20%	6.7
Future Congestion	0.34	Low	33.3	20%	6.7
Existing Traffic Volume	709	High	100	20%	20.0
Future Traffic Volume	741	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.12	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking	Low	33.3	25%	8.3
CEDS Consistency	Could support CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	7	High	100	25%	25.0
Total Economy Score					75.0

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					88.9

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	75.0	25%	18.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	88.9	15%	13.3
Total Project Benefit Score				67.4

Benefit-Cost Calculation	Benefit Score	67.4
	Estimated Cost	\$6,290,000
	Estimated Users	20035
	Benefit-Cost Score	214.70



Project Number	150	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Downtown Streets	-	-	-	-
Proposed Improvement	Implement downtown complete streets - Phase A, four blocks			Est. Cost	\$5,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion		Low	33.3	20%	6.7
Future Congestion		Low	33.3	20%	6.7
Existing Traffic Volume		Low	33.3	20%	6.7
Future Traffic Volume		Low	33.3	20%	6.7
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate		Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)		Low	33.3	25%	8.3
Total Economy Score					83.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	50.0	25%	12.5
	Economy	83.3	25%	20.8
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				61.8

Benefit-Cost Calculation	Benefit Score	61.8
	Estimated Cost	\$5,000,000
	Estimated Users	20000
	Benefit-Cost Score	247.30



Project Number	151	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Downtown Streets	-	-	-	-
Proposed Improvement	Implement downtown complete streets - Phase B, four blocks			Est. Cost	\$5,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion		Low	33.3	20%	6.7
Future Congestion		Low	33.3	20%	6.7
Existing Traffic Volume		Low	33.3	20%	6.7
Future Traffic Volume		Low	33.3	20%	6.7
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate		Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)		Low	33.3	25%	8.3
Total Economy Score					83.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	50.0	25%	12.5
	Economy	83.3	25%	20.8
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				61.8

Benefit-Cost Calculation	Benefit Score	61.8
	Estimated Cost	\$5,000,000
	Estimated Users	20000
	Benefit-Cost Score	247.30



Project Number	152	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
City of Lynchburg	Downtown Streets	-	-	-	-
Proposed Improvement	Implement downtown complete streets - Phase C, four blocks			Est. Cost	\$5,000,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion		Low	33.3	20%	6.7
Future Congestion		Low	33.3	20%	6.7
Existing Traffic Volume		Low	33.3	20%	6.7
Future Traffic Volume		Low	33.3	20%	6.7
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					46.6

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate		Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Includes placemaking	High	100	25%	25.0
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)		Low	33.3	25%	8.3
Total Economy Score					83.3

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Moderate impact	Medium	66.7	50%	33.4
Environmental Resources	High impact	Low	33.3	50%	16.7
Total Community and Nature Score					50.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires little or no ROW	High	100	33%	33.3
Plan Coordination	Two or more plans	High	100	33%	33.3
Distribution of Benefits	One locality	Low	33.3	33%	11.1
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	46.6	20%	9.3
	Safety	50.0	25%	12.5
	Economy	83.3	25%	20.8
	Community and Nature	50.0	15%	7.5
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				61.8

Benefit-Cost Calculation	Benefit Score	61.8
	Estimated Cost	\$5,000,000
	Estimated Users	20000
	Benefit-Cost Score	247.30



Project Number	155	Category	Access Management and Safety	Project Benefit Score	76.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Wards Rd	29	City of Lynchburg corp limits	Lofty View Ln	1.6
Proposed Improvement	Access Management and Intersection Improvements Segments 1-3			Est. Cost	\$12,547,301

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.49	Low	33.3	20%	6.7
Future Congestion	0.72	Low	33.3	20%	6.7
Existing Traffic Volume	896	High	100	20%	20.0
Future Traffic Volume	1213	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.35	Low	33.3	50%	16.7
PSI Locations	PSI locations present	Medium	66.7	50%	33.4
Total Safety Score					50.0

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	High	High	100	25%	25.0
Freight Volume (%)	7	High	100	25%	25.0
Total Economy Score					91.7

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	50.0	25%	12.5
	Economy	91.7	25%	22.9
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				76.8

Benefit-Cost Calculation	Benefit Score	76.8
	Estimated Cost	\$12,547,301
	Estimated Users	20000
	Benefit-Cost Score	122.34



Project Number	156	Category	Access Management and Safety	Project Benefit Score	70.5
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Wards Rd	29	Lofty View Ln	Patterson Rd	2.6
Proposed Improvement	Access Management and Intersection Improvements Segments 4-6			Est. Cost	\$13,799,831

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.35	Low	33.3	20%	6.7
Existing Traffic Volume	658	High	100	20%	20.0
Future Traffic Volume	765	High	100	20%	20.0
Alternative Transportation Facilities	Two or more facilities	High	100	20%	20.0
Total Mobility and Accessibility Score					73.3

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.24	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	7	High	100	25%	25.0
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	73.3	20%	14.7
	Safety	33.3	25%	8.3
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				70.5

Benefit-Cost Calculation	Benefit Score	70.5
	Estimated Cost	\$13,799,831
	Estimated Users	23075
	Benefit-Cost Score	117.88



Project Number	157	Category	Access Management and Safety	Project Benefit Score	67.8
Jurisdiction	Route Name	Route	From	To	Length (mi)
Campbell County	Wards Rd	29	Patterson Rd	Dennis Riddle Dr	2.3
Proposed Improvement	Access Management and Intersection Improvements Segments 7-8			Est. Cost	\$11,882,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result	Rating	Points	Weight	Score
Existing Congestion	0.3	Low	33.3	20%	6.7
Future Congestion	0.35	Low	33.3	20%	6.7
Existing Traffic Volume	658	High	100	20%	20.0
Future Traffic Volume	765	High	100	20%	20.0
Alternative Transportation Facilities	No facilities	Low	33.3	20%	6.7
Total Mobility and Accessibility Score					60.0

Vision Theme: Safety

Category	Result	Rating	Points	Weight	Score
Fatal and Injury Crash Rate	0.25	Low	33.3	50%	16.7
PSI Locations	No PSI locations	Low	33.3	50%	16.7
Total Safety Score					33.3

Vision Theme: Economy

Category	Result	Rating	Points	Weight	Score
Placemaking	Could include placemaking	Medium	66.7	25%	16.7
CEDS Consistency	Supports CEDS	High	100	25%	25.0
Surrounding Employment Density	Medium	Medium	66.7	25%	16.7
Freight Volume (%)	7	High	100	25%	25.0
Total Economy Score					83.4

Vision Theme: Community and Nature

Category	Result	Rating	Points	Weight	Score
Cultural Resources	Little to no impact	High	100	50%	50.0
Environmental Resources	Little to no impact	High	100	50%	50.0
Total Community and Nature Score					100.0

Vision Theme: Operational Efficiency

Category	Result	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires some ROW	Medium	66.7	33%	22.2
Plan Coordination	One other plan	Medium	66.7	33%	22.2
Distribution of Benefits	Three or more localities	High	100	33%	33.3
Total Operational Efficiency Score					77.8

Total Benefit Score	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	33.3	25%	8.3
	Economy	83.4	25%	20.8
	Community and Nature	100.0	15%	15.0
	Operational Efficiency	77.8	15%	11.7
Total Project Benefit Score				67.8

Benefit-Cost Calculation	Benefit Score	67.8
	Estimated Cost	\$11,882,000
	Estimated Users	23034
	Benefit-Cost Score	131.49

