APPENDIX H. PROJECT SCORE SHEETS



Project Number		4	Category	Roadway Re	econstruction	Project Benefit Score		65.3
Jurisdiction	Route Nam	e	Route Number	Fro	om	То		Length (mi)
City of Lynchburg	Lynchburg Expres	ssway	29	James Street/	'Stadium Road	-		
Proposed Improvement Extend SB decelerat				ation lane & reconfi	gure ramps	Est. Cost	\$8,8	80,000
				Score Calculati				
				: Mobility and Acce	,			
Category			Result		Rating	Points	Weight	Score
xisting Congestic			0.5		Low	33.3	20%	6.7
uture Congestion			0.66		Low	33.3	20%	6.7
xisting Traffic Vo			1180		High	100	20%	20.0
uture Traffic Volu			1562		High	100	20%	20.0
Alternative Transp	portation Facilities		No facilit	ies	Low	33.3	20%	6.7 60.0
					lotal Wobl	lity and Access	ibility Score	60.0
				on Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury C	rash Rate		0.36		Low	33.3	50%	16.7
SI Locations			No PSI locations		Low	33.3	50%	16.7
						Total S	Safety Score	33.3
			Visio	n Theme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking		D	Doesn't include placemaking		Low	33.3	25%	8.3
CEDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
Surrounding Empl			High		High	100	25%	25.0
reight Volume (%	6)		3		Medium	66.7	25%	16.7
						Total Eco	nomy Score	66.7
			Vision Them	e: Community and	Nature	_		
Category			Result		Rating	Points	Weight	Score
Cultural Resource	S		Little to no ir	npact	High	100	50%	50.0
Environmental Re	sources		Little to no ir	mpact	High	100	50%	50.0
					Total Cor	nmunity and N	ature Score	100.0
			Vision Them	ne: Operational Effi	ciency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suff	iciency		Requires som	e ROW	Medium	66.7	33%	22.2
lan Coordination			Two or more	plans	High	100	33%	33.3
Distribution of Be	nefits		Three or more	localities	High	100	33%	33.3
		-			Total O	perational Effic	ciency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
Total Benefit Score			Economy		66.7	25%	16.7	
	i otai Denenti S			Community and N	ature	100.0	15%	15.0
				Operational Efficie		88.9	15%	13.3
						Total Project B		65.3
ſ	Benefit Score		65.3	1				
			00.0	J				

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



Project Number 5		5	Category	Roadway Reconstruction	Project Benefit Score	69.1
Jurisdiction	Route Name		Route Number	From	То	Length (mi)
City of Lynchburg	Lynchburg Expressway		29	Odd Fellows Road	-	
Extend SB acceleration lane & NB deceleration lanes & install				Est. Cost \$8,5	70,000	

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 Rati		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		

	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
Total Benefit Score	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		

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



Project Number 6		6	Category	New Roadway	Project Benefit Score	58.2
Jurisdiction	Route Name	2	Route Number	From	То	Length (mi)
Amherst County	Monacan Parkw	γaγ	29/663	Izaak Walton Rd (Rt 663)	-	
Proposed Improvement			Construc	t on/off ramps	Est. Cost \$11,5	90,000

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						

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					

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								

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 Co	mmunity an	d 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 C	Operational I	Efficiency Score	55.5			

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

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



Proje	ct Number	7	Category	Access Manager	ment and Safety	Project B	enefit Score	71.7	
Jurisdiction	Route Name		Route Number	Fro	om		То	Length (mi	
Amherst County	South Amherst High	way	29	Route	e 163	S Coolwell Road (Rt 694)		4.31	
Proposed Imp	rovement	Traffi	c Operations/ Signa	I Coordination/ ATF	PSM Upgrades	Est. Cost	\$2,50	0,000	
				Score Calculatio					
				Mobility and Acces					
ategory			Result		Rating	Points	Weight	Score	
xisting Congestio			0.578		Low	33.3	20%	6.7	
uture Congestion			0.906		Medium	66.7	20%	13.3	
xisting Traffic Vo			1010.6		High	100	20%	20.0	
uture Traffic Volu	-		1548		High	100	20%	20.0	
Iternative Transp	oortation Facilities		No facilitie	S	Low	33.3	20%	6.7	
					Total Mob	ility and Acc	essibility Score	66.7	
				n Theme: Safety					
ategory			Result		Rating	Points	Weight	Score	
atal and Injury Cr	ash Rate		0.78		Medium	66.7	50%	33.4	
SI Locations			Top 20 PSI location	n present	High	100	50%	50.0	
						Tot	al Safety Score	83.4	
			Vision	Theme: Economy	_				
ategory			Result		Rating	Points	Weight	Score	
lacemaking			Doesn't include placemaking		Low	33.3	25%	8.3	
EDS Consistency			Could support CEDS		Medium	66.7	25%	16.7	
urrounding Empl	oyment Density		High		High	100	25%	25.0	
reight Volume (%	5)		3		Medium	66.7	25%	16.7	
						Total E	conomy Score	66.7	
				Community and N		Deinte	14/2:5 44	Score	
ategory ultural Resources	-		Result	nant	Rating Medium	Points	Weight		
	-		Moderate im	-		66.7 33.3	50% 50%	33.4	
nvironmental Re	sources	_	High impa		Low			16.7	
				0 ··· · · · · · · · · · · · · · · · · ·		mmunity and	d Nature Score	50.0	
at a come				e: Operational Effic	-	Dointo	Weight	Score	
ategory ight-of-Way Suffi	icionav		Result Requires little or	no ROW	Rating	Points 100	Ū,		
<u> </u>			•		High		33%	33.3	
lan Coordination			One other p		Medium	66.7	33%	22.2	
istribution of Ber	nefits		Three or more lo	ocalities	High	100	33%	33.3	
					Total C	perational E	fficiency Score	88.9	
				Vision Theme		Points	Weight	Score	
				Mobility and Acce	ssibility	66.7	20%	13.3	
				Safety		83.4	25%	20.8	
	Total Benefit Se	core		Economy		66.7	25%	16.7	
				Community and N	lature	50.0	15%	7.5	
				Operational Efficie		88.9	15%	13.3	
						Total Projec	t Benefit Score	71.7	
P	Benefit Score		71.7	1					
	Estimated Cost		\$2,500,000	1					
Senefit-Cost	Estimated Users		37938.4	1					
Calculation			-						

Benefit-Cost Score



1087.67

Proje	ect Number	8	Category	New Roa	dway	Project B	enefit Score	69.5
Jurisdiction	Route Name	ame Route Number From			То	Length (mi)		
Amherst County	South Amherst Hi	ghway	hway 29/163 Route 163			-		
Proposed Im	provement	Add ramp to complete interchange				Est. Cost	\$13,9	10,000
			Vision Theme: N	lobility and Access	ibility			
Category			Result		Rating	Points	Weight	Score
Existing Congesti	on		0.4		Low	33.3	20%	6.7
Future Congestic	on		0.5		Low	33.3	20%	6.7
Existing Traffic V	olume		955		High	100	20%	20.0
Future Traffic Vo	lume	1193 High			High	100	20%	20.0
Alternative Trans	sportation Facilities		No facilities		Low	33.3	20%	6.7
					Total Mob	ility and Acc	essibility 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			
			Tot	tal 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					

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 locailities	Three or more locailities High 100 33%		33.3	
		Total O	perational I	Efficiency Score	88.9

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

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



Proje	ect Number	9	Category	New Roadway	Project Benefit Score		Project Benefit Score		65.3
Jurisdiction	Route Nam	e	Route Number	From	То		То		Length (mi)
Campbell County	US 29 Southern Bypas Alternative)	s (Eastern	29	S of Rt 24	E Lynchburg Salem Turnpike (US 460)		10		
Proposed Im						,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 Mobili	ty and Access	ibility 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 S	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 Eco	nomy 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 Com	munity and N	lature 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			

		-	-	
		0		
	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
Total Benefit Score	Economy	66.7	25%	16.7
	Community and Nature	83.4	15%	12.5
	Operational Efficiency	77.8	15%	11.7
		Total Project B	enefit Score	65.3

Demost Cost S421,100,00	Benefit-Cost Calculation	Estimated Users	28220
Estimated Cost \$421,100,00	Benefit-Cost		\$421,100,000 28220



77.8

Total Operational Efficiency Score

Proje	ect Number	10	Category	New Roadway	Project Benefit Score		65.3
Jurisdiction	Route Name	е	Route Number	From	т	D	Length (mi)
Campbell County	US 29 Southern Bypass Alternative)	`	29	S of Rt 24	Richmond Highway (US 460)		4.5
Proposed Im						,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	
Fatal and Injury Crash Rate	0.33	Low	33.3	50%	
PSI Locations	PSI locations present	Medium	66.7	50%	

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							

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							

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							

	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
	Safety	50.0	25%	12.5
Total Benefit Score	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		

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



Score 16.7

33.4

50.0

Total Safety Score

Project I	Number	15	Category	Roadway Capac	ity Expansion	roject Ber	roject Benefit Scor	
Jurisdiction	Route Nar	ne	Route Number	From		Т	D	Length (mi)
Amherst Countv	Lynchburg Expre	ssway 29 Amherst St (Rt 163)		Lyttleton Ln		0.52		
Proposed Improv	ement		Widening/In	nprovement		Est. Cost	\$13	,110,000
		Visio	on 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 Transporta	ation Facilities		No facilities		Low	33.3	20%	6.7
					Total Mobility a	nd Accessibi	ility 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 Saf	ety Score	33.3
			Vision Theme:	Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking		Doe	sn't include placem	aking	Low	33.3	25%	8.3
CEDS Consistency			Could support CED	S	Medium	66.7	25%	16.7
Surrounding Employm	ent Density		Medium		Medium	66.7	25%	16.7
Freight Volume (%)	,		2		Medium	66.7	25%	16.7
						Total Econo	my Score	58.4
		Visi	on Theme: Comm	unity and Nature			•	
Category			Result	,	Rating	Points	Weight	Score
Social Resources			Little to no impac	t	High	100	50%	50.0
Environmental Resour	ces		Little to no impac	t	High	100	50%	50.0
					Total Commu	nity and Nat	ure Score	100.0
		Vis	ion Theme: Opera	tional Efficiency				
Category			Result	,	Rating	Points	Weight	Score
Right-of-Way Sufficier	ncy		Requires some RO	N	Medium	66.7	33%	22.2
Plan Coordination	,		One other plan		Medium	66.7	33%	22.2
Distribution of Benefit	rc	T	nree or more locaili	ties	High	100	33%	33.3
Distribution of Deficit	.5		liee of more localit	ties	Total Operat			77.8
							,	
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
	Total Benefit	t Score		Economy		58.4	25%	14.6
				Community and Na	ature	100.0	15%	15.0
				Operational Efficiency		77.8	15%	11.7
					Total	Project Ben	efit Score	61.6

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



Proje	ct Number	19	Category	Access Managem	nent and Safety	Project B	enefit Score	69.7
Jurisdiction	Route Name	9	Route Number	Fro	m	n To		Length (mi)
Campbell County	Wards Rd		29	Colonial Highway (Rt 24)		City of Lynchburg corp limits		6.73
Proposed Imp	roposed Improvement Access Management and Intersection Improvements Est. Cost \$17,88				86,422			
Existing Congesti	on		0.55		Low	33.3	20%	6.7
Future Congestio	n		0.62		Low	33.3	20%	6.7
Existing Traffic Volume			969.13		High	100	20%	20.0
Future Traffic Vo	uture Traffic Volume		1088.25		High	100	20%	20.0
Alternative Trans	portation Facilities	Two or more facilities		cilities	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		
			To	tal 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							

Vision Theme: Community and Nature								
Category	Result	Score						
Social Resources	Little to no impact	High	100	50%	50.0			
Environmental Resources	Moderate impact	Moderate impact Medium 66.7 50%						
Total Community and Nature Score								

Vision Theme: Operational Efficiency Category Result Rating Points Weight									
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 locailities	Three or more locailities High 100 33%							
		Total O	perational I	Efficiency Score	88.9				

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

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



Project	Number	20	Category	Roadway Rec	onstruction	Project B	enefit Score	61.7
Jurisdiction	Route Nar	ne	Route Number	Fro	m	То		Length (mi)
Amherst County	Richmond Hig	iway 60		US 29 Bypass		Rt 606W		0.95
Proposed Impro	ovement		2 lane im	provements		Est. Cost	\$10,8	40,000
			Vision Theme: Mo	bility and Accessit	oility			
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 Volur	me		362		High	100	20%	20.0
Future Traffic Volum	ne		454		High	100	20%	20.0
Alternative Transpor	rtation Facilities		Two or more facil	ities	High	100	20%	20.0
					Total Mobi	lity and Acce	ssibility Score	73.3
			Vision T	heme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cras	sh Rate		0.19		Low	33.3	50%	16.7
PSI Locations			No PSI location	15	Low	33.3	50%	16.7
						Tota	al Safety Score	33.3
			Vision Th	eme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking			Doesn't include place	emaking	Low	33.3	25%	8.3
CEDS Consistency			Could support CI	EDS	Medium	66.7	25%	16.7
Surrounding Employ	ment Density		High		High	100	25%	25.0
Freight Volume (%)			9		High	100	25%	25.0
						Total E	conomy Score	75.0
			Vision Theme: Co	ommunity and Nat	ure			
Category			Result		Rating	Points	Weight	Score
Social Resources			Moderate impa	ct	Medium	66.7	50%	33.4
Environmental Reso	urces		Moderate impa	ct	Medium	66.7	50%	33.4
					Total Cor	nmunity and	Nature Score	66.7
			Vision Theme: C	Operational Efficien	icy			
Category			Result	•	Rating	Points	Weight	Score
Right-of-Way Suffici	ency		Requires some R	OW	Medium	66.7	33%	22.2
Plan Coordination	•		Two or more pla	ins	High	100	33%	33.3
Distribution of Bene	fits		One locality		Low	33.3	33%	11.1
							fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	73.3	20%	14.7
	Tatalo		Safety		33.3	25%	8.3	
	Total Benefit	t Score		Economy	- 1	75.0	25%	18.8
				Community and N		66.7	15%	10.0
				Operational Efficie	·	66.7	15%	10.0
						rotal Project	Benefit Score	61.7

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



Projec	t Number	21	Category	Roadway Capac	ity Expansion	Project B	enefit Score	57.4
Jurisdiction	Route Name		Route Number	Froi	n		То	Length (mi)
Amherst County	Richmond Highwa		60	Dulwich Dr (Rt 606W)	CVMPO Eas	tern Boundary	1.27
Proposed Impro	ovement		Widening	g/Improvement		Est. Cost	\$54,4	60,000
			Benefit Sc	ore Calculation				
			Vision Theme: M	obility and Accessi	bility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.26		Low	33.3	20%	6.7
uture Congestion			0.405		Low	33.3	20%	6.7
Existing Traffic Volu	me		376.5		High	100	20%	20.0
uture Traffic Volum	ne		592.5		High	100	20%	20.0
Iternative Transpo	rtation Facilities		No facilitie	S	Low	33.3	20%	6.7
					Total Mot	oility and Acce	essibility Score	60.0
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Cras	sh Rate		0		Low	33.3	50%	16.7
PSI Locations			No PSI locati	ons	Low	33.3	50%	16.7
					Tota	al Safety Score	33.3	
			Vision T	neme: Economy		_		
Category			Result		Rating	Points	Weight	Score
lacemaking			Doesn't include pla	cemaking	Low	33.3	25%	8.3
EDS Consistency			Could support		Medium	66.7	25%	16.7
urrounding Employ	ment Density		Low		Low	33.3	25%	8.3
reight Volume (%)			9		High	100	25%	25.0
<u> </u>					5	Total E	conomy Score	58.3
		-	Vision Theme: (Community and Nat	ure			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no im	nact	High	100	50%	50.0
Environmental Reso	nurces		Moderate im	•	Medium	66.7	50%	33.4
		_					d Nature Score	83.4
				o		annanity and		00.4
			Vision Theme: Result	Operational Efficie	•	Deinte	Maisht	Casua
C ategory Right-of-Way Suffici	ioneu (Requires little or i		Rating	Points	Weight	Score
0 1	ency		•		High	100	33%	33.3
Plan Coordination			One other pl		Medium	66.7	33%	22.2
Distribution of Bene	tits		One localit	У	Low	33.3	33%	11.1
					Total C	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
	Total Benefit Sco	ore		Economy		58.3	25%	14.6
				Community and Na	ature	83.4	15%	12.5
				Operational Efficie	ncy	66.7	15%	10.0
						Total Project	t Benefit Score	57.4
	nofit Cooro		E7 4					
	nefit Score		57.4 \$54,460,000	1				
Benefit-Cost	timated Cost		\$54,460,000	1				

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



Pro	oject Number	22	Category	Roadway Capad	city Expansion	Project B	enefit Score	58.4
Jurisdiction	Route Name		Route Number	Fro	m		То	Length (mi
Amherst County	Elon Rd		130	NS Railroad S. Amherst Highway 29 Bus)			1.88	
Proposed Im	provement		Wider	to four lanes		Est. Cost	\$25,0	00,000
			Benefit So	core Calculatior	1			
			Vision Theme: N	lobility and Accessi	ibility			
Category			Result		Rating	Points	Weight	Score
xisting Congest	tion		0.46		Low	33.3	20%	6.7
uture Congesti	on		0.52		Low	33.3	20%	6.7
xisting Traffic V	/olume		566		High	100	20%	20.0
uture Traffic Vo	olume		719.5		High	100	20%	20.0
lternative Tran	sportation Facilities		Two or more fa	cilities	High	100	20%	20.0
					Total Mol	pility and Acc	essibility Score	73.3
			Vision	Theme: Safety				
ategory			Result		Rating	Points	Weight	Score
atal and Injury	Crash Rate		0.42		Low	33.3	50%	16.7
SI Locations			No PSI location	ons	Low	33.3	50%	16.7
						Tot	33.3	
			Vision T	heme: Economy				
ategory			Result		Rating	Points	Weight	Score
lacemaking			Doesn't include pla	cemaking	Low	33.3	25%	8.3
EDS Consistend	cy		Could support	CEDS	Medium	66.7	25%	16.7
urrounding Em	ployment Density		High		High	100	25%	25.0
reight Volume	(%)		8		High	100 25%	25%	25.0
						Total I	Economy Score	75.0
			Vision Theme: (Community and Na	ture			
ategory			Result		Rating	Points	Weight	Score
Cultural Resource	ces		Little to no im	pact	High	100	50%	50.0
nvironmental F	Resources		High impac	t	Low	33.3	50%	16.7
					Total Co	ommunity an	d Nature Score	66.7
			Vision Theme:	Operational Efficie	ncv			
ategory			Result	•	Rating	Points	Weight	Score
ight-of-Way Su	ifficiency		Requires significa	nt ROW	Low	33.3	33%	11.1
lan Coordinatio			One other pl		Medium	66.7	33%	22.2
istribution of B			One localit		Low	33.3	33%	11.1
	benefits		One localit	ÿ			55%	44.4
				Vision Theme Mobility and Acces	cibility	Points	Weight	Score
					ssibility	73.3	20%	14.7
	Total Damafit Ca			Safety		33.3	25%	8.3
	Total Benefit Sco	bre		Economy		75.0	25%	18.8
				Community and Na		66.7	15%	10.0
				Operational Efficie	ncy	44.4	15%	6.7
						Total Projec	t Benefit Score	58.4
	Benefit Score		58.4	1				
. .	Estimated Cost			1				
	Estimated Users			1				
Benefit-Cost Calculation	Estimated Cost Estimated Users		58.4 \$25,000,000 8367.5					

Benefit-Cost Score

Calculation



19.55

Project	t Number	23	Category	Intersection Re	econstruction	Project B	enefit Score	61.1
Jurisdiction	Route Name		Route Number	Fro	m		То	Length (mi)
Amherst County	Amelon Expresswa	у	130	Amelon	Center		-	1.96
Proposed Impro	vement	Int	ersection improvem int	ents with review of ersections	alternative	Est. Cost	\$2,00	0,000
				core Calculatior	า			
			Vision Theme: N	lobility and Access	ibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.1		Low	33.3	20%	6.7
uture Congestion			0.3		Low	33.3	20%	6.7
Existing Traffic Volur	ne		212		Medium	66.7	20%	13.3
uture Traffic Volum			392		High	100	20%	20.0
Alternative Transpor	tation Facilities		No facilities	S	Low	33.3	20%	6.7
					Total Mot	oility and Acc	essibility Score	53.3
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Cras	h Rate		1.53		Medium	66.7	50%	33.4
PSI Locations			No PSI locatio	ons	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Vision T	heme: Economy				
Category			Result	-	Rating	Points	Weight	Score
Placemaking			Doesn't include place	cemaking	Low	33.3	25%	8.3
CEDS Consistency			Could support	CEDS	Medium	66.7	25%	16.7
Surrounding Employ	ment Density		Low		Low	33.3	25%	8.3
reight Volume (%)		4			High	100	25%	25.0
						Total E	conomy Score	58.3
			Vision Theme: (Community and Na	iture			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no im	pact	High	100	50%	50.0
Environmental Reso	urces		Little to no im	pact	100	50%	50.0	
					Total Co	ommunity and	d Nature Score	100.0
			Vision Theme:	Operational Efficie	ncv			
Category			Result	operational Entere	Rating	Points	Weight	Score
Right-of-Way Sufficie	ency		Requires little or r	no ROW	High	100	33%	33.3
Plan Coordination	,		No other pla		Low	33.3	33%	11.1
Distribution of Benef	fits		One locality		Low	33.3	33%	11.1
				<i>1</i>			fficiency Score	55.5
							inclency Score	55.5
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	53.3	20%	10.7
Total Benefit Score			Safety		50.0	25%	12.5	
				Economy		58.3	25%	14.6
				Community and Na		100.0	15%	15.0
				Operational Efficie	ncy	55.5	15%	8.3
						Total Projec	t Benefit Score	61.1
-	<u>()</u>		<u> </u>					
Ber	nefit Score		61.1					

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



Project	Number	24	Category	Intersection Re	econstruction	Project B	enefit Score	61.6
Jurisdiction	Route Name		Route Number	Fro	m		То	Length (mi)
Amherst County	Elon Rd		130 Berg Dr			-		1.38
Proposed Improv	vement		Two le	ft turn lanes		Est. Cost	\$1,14	3,000
			Benefit Sco	ore Calculation				
			Vision Theme: Mo	bility and Accessit	oility			
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 Volum	e		525		High	100	20%	20.0
uture Traffic Volume	2		794		High	100	20%	20.0
Alternative Transport	ation Facilities		No facilitie	S	Low	33.3	20%	6.7
					Total Mob	oility and Acce	essibility Score	60.0
			Vision T	heme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.75		Medium	66.7	50%	33.4
PSI Locations			No PSI location	ons	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Vision Th	eme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking			Doesn't include pla	cemaking	Low	33.3	25%	8.3
CEDS Consistency			Could support	CEDS	Medium	66.7	25%	16.7
Surrounding Employn	nent Density		Low		Low	33.3	25%	8.3
Freight Volume (%)			8		High	100	25%	25.0
						Total E	conomy Score	58.3
			Vision Theme: Co	ommunity and Nat	ure			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no im	pact	High	100	50%	50.0
Environmental Resou	rces		Moderate imp	pact	Medium	66.7	50%	33.4
					Total Co	ommunity and	d Nature Score	83.4
			Vision Theme: C	Operational Efficier	ю			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires little or r	no ROW	High	100	33%	33.3
Plan Coordination			One other pl	an	Medium	66.7	33%	22.2
Distribution of Benefi	ts		One localit	у	Low	33.3	33%	11.1
					Total C	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acce	ssibility	60.0	20%	12.0
				Safety		50.0	25%	12.5
	Total Benefit Sc	ore		Economy		58.3	25%	14.6
				Community and N	ature	83.4	15%	12.5
				Operational Efficie	ency	66.7	15%	10.0
						Total Project	t Benefit Score	61.6
Bene	efit Score		61.6					
Benefit-Cost	nated Cost		\$1,143,000					

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



Proje	Project Number		Category	Roadway Capac	ity Expansion	Project B	enefit Score	63.8
Jurisdiction	Route Name		Route Number	Fro	m		То	
Amherst County	South Amherst High	way 163 River Road (Rt 685)		US 29	4.86			
Proposed Imp	rovement		Widen to 4 la	anes with bike lane		Est. Cost	\$23,0	00,000
				ore Calculation				
			Vision Theme: M	obility and Accessi	bility			
Category			Result		Rating	Points	Weight	Score
xisting Congestio			0.3		Low	33.3	20%	6.7
uture Congestion Existing Traffic Vol			0.36		Low High	33.3 100	20% 20%	6.7 20.0
uture Traffic Volu			569		High	100	20%	20.0
	portation Facilities		Two or more fac	rilities	High	100	20%	20.0
	Softation racinties				-		essibility Score	73.3
			Vision 1	heme: Safety		and Acc	2351511129 50010	, 5.5
Category			Result		Rating	Points	Weight	Score
atal and Injury Cr	rash Bate		0.83		Medium	66.7	50%	33.4
PSI Locations			No PSI locatio	ons	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Vision Th	eme: Economy				
ategory			Result	leme. Leonomy	Rating	Points	Weight	Score
lacemaking			Could include place	emaking	Medium	66.7	25%	16.7
CEDS Consistency			Could support (0	Medium	66.7	25%	16.7
Surrounding Empl	oyment Density		High		High	100	25%	25.0
reight Volume (%	6)		1	1 Low			33.3 25%	8.3
						Total E	conomy Score	66.7
			Vision Theme: C	ommunity and Nat	ure			
Category			Result		Rating	Points	Weight	Score
Cultural Resources	S		Moderate imp	oact	Medium	66.7	50%	33.4
Environmental Re	sources		Moderate imp	bact	Medium	66.7	50%	33.4
					Total Co	ommunity and	d Nature Score	66.7
			Vision Theme: (Operational Efficie	ncy			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffi	iciency		Requires significat	nt ROW	Low	33.3	33%	11.1
Plan Coordination			One other pl	an	Medium	66.7	33%	22.2
Distribution of Ber	nefits		Three or more loo	cailities	High	100	33%	33.3
					Total (Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	73.3	20%	14.7
				Safety		50.0	25%	12.5
	Total Benefit Se	ore		Economy		66.7	25%	16.7
				Community and N	ature	66.7	15%	10.0
				Operational Efficie	ncy	66.7	15%	10.0
						Total Project	t Benefit Score	63.8
-	Benefit Score		63.8					
	Estimated Cost		\$23,000,000					

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



Project	Number	30	Category	Roadway Rec	construction	Project B	enefit Score	60.6
Jurisdiction	Route Name	Route From		om		То	Length (mi)	
Amherst County	Colony Road	210 Rt 10		.63	Rt1034		0.35	
Proposed Improv	vement		2 lane reco	nstruction with shou	ulder	Est. Cost	\$4,23	34,000
				t Score Calculatio	-			
			Vision Theme	e: Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.3		Low	33.3	20%	6.7
uture Congestion			0.35		Low	33.3	20%	6.7
xisting Traffic Volum			251		Medium	66.7	20%	13.3
uture Traffic Volume			286		Medium	66.7	20%	13.3
Alternative Transport	tation Facilities	_	No facil	lities	Low	33.3	20%	6.7
					Total Mol	bility and Acc	essibility Score	46.7
			Visi	on Theme: Safety				
ategory			Resu	lt	Rating	Points	Weight	Score
atal and Injury Crash	n Rate		0.70)	Medium	66.7	50%	33.4
SI Locations			No PSI loo	cations	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Visio	n Theme: Economy				
Category		Result		Rating	Points	Weight	Score	
lacemaking		D	oesn't include	placemaking	Low	33.3	25%	8.3
EDS Consistency			Could supp	ort CEDS	Medium	66.7	25%	16.7
Surrounding Employr	ment Density		Hig	า	High	100	25%	25.0
reight Volume (%)			4	4 High		100	25%	25.0
						Total E	Economy Score	75.0
			Vision Them	e: Community and I	Nature			
ategory			Resu		Rating	Points	Weight	Score
Cultural Resources			Little to no	impact	High	100	50%	50.0
Environmental Resou	irces		High im	pact	Low	33.3	50%	16.7
					Total Co	ommunity an	d Nature Score	66.7
			Vision Thor	ne: Operational Effic		í		
Category			Resu	-	Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires little		High	100	33%	33.3
Plan Coordination	iley		One othe		Medium	66.7	33%	22.2
Distribution of Benefi	itc		One loc	•				
				.ancy	Low	33.3	33%	11.1
					Iotal	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	46.7	20%	9.3
				Safety		50.0	25%	12.5
	Total Benefit Sco	re		Economy		75.0	25%	18.8
				Community and N		66.7	15%	10.0
				Operational Efficie	ency	66.7	15%	10.0
						Total Projec	t Benefit Score	60.6
- In	- (1) (1		<u> </u>	7				
Ben	efit Score		60.6					

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



Project Number		33 Category Intersection Reconst		construction	Project B	Project Benefit Score		
Jurisdiction	Route Name		Route	Froi	n	То		Length (mi
Bedford County	Forest Rd		221	Enterprise Dr	⁻ (Rt 1415)		-	
Proposed Improv	ement			uction, install two R eatures/modify sigr		Est. Cost	\$5,00	0,000
		3		Score Calculatio				
				Mobility and Acces				
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.8		Medium	66.7	20%	13.3
-uture Congestion			0.8		Medium	66.7	20%	13.3
Existing Traffic Volume	2		1417		High	100	20%	20.0
Future Traffic Volume			1499		High	100	20%	20.0
Alternative Transporta	tion Facilities		One faci	lity	Medium	66.7	20%	13.3
					Total Mol	pility and Acce	essibility Score	80.0
			Visio	n Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		3.1		High	100	50%	50.0
PSI Locations			No PSI loca	ations	Low	33.3	50%	16.7
						Tota	al Safety Score	66.7
			Vision	Theme: Economy				
Category			Resul	t	Rating	Points	Weight	Score
Placemaking		Do	pesn't include p		Low	33.3	25%	8.3
CEDS Consistency			Could suppo	rt CEDS	Medium	66.7	25%	16.7
Surrounding Employm	ent Density		High		High	100	25%	25.0
Freight Volume (%)		_	1		Low	33.3	25%	8.3
						Total E	conomy Score	58.3
C -t				: Community and N		Deinte	Mainht	Casera
Category Cultural Resources			Resul	-	Rating	Points 100	Weight 50%	Score 50.0
Environmental Resources			Little to no i Little to no i		High	100	50%	50.0
		-	Little to ho	inpact	High Total Co		d Nature Score	100.0
			Vision Them	e: Operational Effici		onintanity and		100.0
Category			Resul	-	Rating	Points	Weight	Score
Right-of-Way Sufficien	су	1	Requires little o	or no ROW	High	100	33%	33.3
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	5		Two local	ities	Medium	66.7	33%	22.2
							fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	80.0	20%	16.0
				Safety		66.7	25%	16.7
	Total Benefit Score	е		Economy		58.3	25%	14.6
				Community and Na	ature	100.0	15%	15.0
				Operational Efficie		77.8	15%	11.7
					,		Benefit Score	73.9
						Total Project	. Benefit Score	73.5

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



Project Number		38 Category Roadway Capacity Ex		city Expansion	Project Be	enefit Score	67.0	
Jurisdiction	Route Name		Route	From		То		Length (mi)
City of Lynchburg	Lakeside Dr	221 Lynchburg E		Lynchburg Expre	essway (Rt 501)	Forest	Brook Rd	1.76
Proposed Improv	ement		Wi	den to 4 lanes		Est. Cost	\$19,1	63,000
				Score Calculatio				
Category			Result	, · · · · ·	Rating	Points	Weight	Score
Existing Congestion			0.98		Medium	66.7	20%	13.3
uture Congestion			1.12		High	100	20%	20.0
Existing Traffic Volum	e		775		High	100	20%	20.0
uture Traffic Volume	-		882		High	100	20%	20.0
Alternative Transport	ation Facilities		Two or more f	acilities	High	100	20%	20.0
					-		ssibility Score	93.3
			Visio	n Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.85		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	I Safety Score	50.0
			Vision	Theme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking			Doesn't include p		Low	33.3	25%	8.3
CEDS Consistency			Could suppor		Medium	66.7	25%	16.7
Surrounding Employm	ent Density		Mediun	n	Medium	66.7	25%	16.7
Freight Volume (%)		-	1		Low	33.3	25%	8.3
			Vicion Thoma	: Community and N	aturo	I otal E	conomy Score	50.0
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no in		High	100	50%	50.0
Environmental Resour	rces		Little to no ii	•	High	100	50%	50.0
					Total Co	ommunity and	Nature Score	100.0
			Vision Theme	e: Operational Effici	iency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficier	псу		Requires signific	ant ROW	Low	33.3	33%	11.1
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	S		Two locali	ties	Medium	66.7	33%	22.2
					Total (Dperational Ef	ficiency Score	55.6
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	93.3	20%	18.7
				Safety		50.0	25%	12.5
	Total Benefit Scor	е		Economy		50.0	25%	12.5
				Community and Na		100.0	15%	15.0
				Operational Efficie	ncy	55.6	15%	8.3
							Benefit Score	67.0

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



Project Number		40 Category F		Roadway Capac	Roadway Capacity Expansion		Project Benefit Score		
Jurisdiction	Route Name	Route		Froi	m		То	Length (mi	
Campbell County, City of	East Lynchburg Salem Tu	urnpike	460	Waterlick Ro	d (Rt 622)	Campbell	Ave (Rt 501)	5.26	
Proposed Imp	provement		Increa	ase to 6 lanes		Est. Cost	\$200,9	70,000	
			Benefit S	core Calculatior	1				
			Vision Theme: N	lobility and Accessi	ibility				
Category			Result		Rating	Points	Weight	Score	
Existing Congestion	on		0.65		Low	33.3	20%	6.7	
Future Congestio	n		0.92		Medium	66.7	20%	13.3	
Existing Traffic Volume			1448.43	High	100	20%	20.0		
Future Traffic Vol	ffic Volume			2066.14 High			20%	20.0	
Alternative Transportation Facilities			No facilitie	es	Low	33.3	20%	6.7	
					Total Mob	ility and Acce	essibility Score	66.7	
			Vision	Theme: Safety					
Category			Result		Rating	Points	Weight	Score	
Fatal and Injury C	rash Rate		0.18		Low	33.3	50%	16.7	
PSI Locations			Top 20 PSI locatio	n present	High	100	50%	50.0	
						Tota	al Safety Score	66.7	
			Vision T	heme: Economy					
Category			Result		Rating	Points	Weight	Score	
Placemaking		[oesn't include pla	icemaking	Low	33.3	25%	8.3	
CEDS Consistency	/		Could support	CEDS	Medium	66.7	25%	16.7	
Surrounding Emp	loyment Density		High		High	100	25%	25.0	
Freight Volume (%	%)		8		High	100	25%	25.0	
						Total E	conomy 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									

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 locallities	High	100	33%	33.3				
Total Operational Efficiency Score									

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

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



Project Number		42	Category	Access Managem	nent and Safety	Project B	Benefit Score	72.6
Jurisdiction	Route Name		Route			То		Length (mi
Campbell County	Timberlake Rd		460			Cro	owell Ln	1.14
Proposed Improv	vement		Restrict	ed Crossing U-Turn		Est. Cost	\$3,65	50,000
				Score Calculatio				
				Mobility and Acces	,			-
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.65		Low	33.3	20%	6.7
uture Congestion			0.97		Medium	66.7	20%	13.3
xisting Traffic Volum			1089		High	100	20%	20.0
uture Traffic Volume			1563	1.	High	100	20%	20.0
Iternative Transport	ation Facilities		One faci	lity	Medium	66.7	20%	13.3
					Total Mot	oility and Acc	essibility Score	73.3
			Visio	n Theme: Safety				
ategory			Resul	t	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.89		Medium	66.7	50%	33.4
SI Locations			PSI locations	present	Medium	66.7	50%	33.4
						Tot	tal Safety Score	66.7
			Vision	Theme: Economy				
ategory		Result			Rating	Points	Weight	Score
lacemaking		Do	oesn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency		Could support CEDS			Medium	66.7	25%	16.7
urrounding Employn	nent 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 N	Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Little to no i	impact	High	100	50%	50.0
nvironmental Resou	rces		Little to no impact		High	100	50%	50.0
					Total Co	mmunity an	d Nature Score	100.0
			Vision Them	e: Operational Effic	ciency			
ategory			Resul		Rating	Points	Weight	Score
light-of-Way Sufficier	ncy		Requires som		Medium	66.7	33%	22.2
lan Coordination			One other		Medium	66.7	33%	22.2
Distribution of Benefit	ts		Three or more	•	High	100	33%	33.3
	~				. <u> </u>			
				-	Iotal (Operational E	Efficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	73.3	20%	14.7
				Safety		66.7	25%	16.7
	Total Benefit Score	2		Economy		58.3	25%	14.6
				Community and N		100.0	15%	15.0
				Operational Efficie	ency	77.8	15%	11.7
						Total Projec	t Benefit Score	72.6
5	£+ C		72.0	1				
Bene	efit Score		72.6	J				

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



Project Number		43	Category	Access Managen	nent and Safety	Project B	enefit Score	78.4
Jurisdiction	Route Name		Route	Fro	om		То	Length (mi
Campbell County	Timberlake Rd		460	Sunny B	Bank Dr		-	1.83
Proposed Improv	ement		Restrict	ed Crossing U-Turn	1	Est. Cost	\$2,99	0,000
			Benefit	Score Calculati	on			
			Vision Theme:	Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.6		Low	33.3	20%	6.7
uture Congestion			0.9		Medium	66.7	20%	13.3
xisting Traffic Volume	2		1089		High	100	20%	20.0
uture Traffic Volume			1563		High	100	20%	20.0
Iternative Transporta	tion Facilities		One faci	lity	Medium	66.7	20%	13.3
					Total Mol	bility and Acce	essibility Score	73.3
			Visio	n Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.89		Medium	66.7	50%	33.4
SI Locations		T	op 20 PSI locati	on present	High	100	50%	50.0
						Tota	al Safety Score	83.4
			Vision	Theme: Economy				
ategory			Resul	t	Rating	Points	Weight	Score
lacemaking		Do	esn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency			Could suppo	rt CEDS	Medium	66.7	25%	16.7
Surrounding Employment Density			High		High	100	25%	25.0
reight Volume (%)			1		Low	33.3	25%	8.3
						Total E	conomy Score	58.3
			Vision Theme	: Community and	Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Little to no i	mpact	High	100	50%	50.0
nvironmental Resour	ces		Little to no i	mpact	High	100	50%	50.0
					Total Co	ommunity and	l Nature Score	100.0
			Vision Them	e: Operational Effi	ciency			
Category			Resul		Rating	Points	Weight	Score
light-of-Way Sufficien	су		Requires little c	r no ROW	High	100	33%	33.3
lan Coordination			One other	plan	Medium	66.7	33%	22.2
istribution of Benefit	5		Three or more	localities	High	100	33%	33.3
					Total	Operational E	fficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acce	ssibility	73.3	20%	14.7
				Safety		83.4	25%	20.8
	Total Benefit Score			Economy		58.3	25%	14.6
				Community and N	lature	100.0	15%	15.0
						_		
				Operational Efficie	ency	88.9	15%	13.3

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



Project Number		44	Category	Access Managen	nent and Safety	Project B	enefit Score	71.3
Jurisdiction	Route Name	Route Fro			m	То		Length (mi)
Campbell County	Timberlake Rd	460 Shelor			or Dr	Ente	rprise Dr	1.35
Proposed Improv	vement		•	urn, add EB left turr	· •	Est. Cost	\$5,71	10,000
		signa		d NB receiving lane Score Calculation			. ,	•
				: Mobility and Acce	••••			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.65		Low	33.3	20%	6.7
uture Congestion			0.97		Medium	66.7	20%	13.3
xisting Traffic Volum	e		1089		High	100	20%	20.0
uture Traffic Volume			1563		High	100	20%	20.0
Alternative Transport			No facili	ties	Low	33.3	20%	6.7
					Total Mot	pility and Acc	essibility Score	66.7
					- Fotor Wilds		contrary Score	0017
				on Theme: Safety		_		
Category	-		Resul	-	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.89		Medium	66.7	50%	33.4
PSI Locations		PSI locations present			Medium	66.7	50%	33.4
						Tot	al Safety Score	66.7
			Vision	Theme: Economy				
Category		Result			Rating	Points	Weight	Score
Placemaking		Doesn't include placemaking			Low	33.3	25%	8.3
EDS Consistency		Could support CEDS			Medium	66.7	25%	16.7
Surrounding Employm	nent Density		High		High	100	25%	25.0
Freight Volume (%)		1			Low	33.3	25%	8.3
					Total E	Economy Score	58.3	
			Vision Theme	e: Community and I	Nature			
Category			Resul	•	Rating	Points	Weight	Score
Cultural Resources				Little to no impact High		100	50%	50.0
Environmental Resour	rces		Little to no	•	High	100	50%	50.0
				P	-		d Nature Score	100.0
						initiality and		100.0
				e: Operational Effic				
Category			Resul	-	Rating	Points	Weight	Score
Right-of-Way Sufficier	псу		Requires little o		High	100	33%	33.3
Plan Coordination			One other		Medium	66.7	33%	22.2
Distribution of Benefit	ts	_	Two localities Medium		Medium	66.7	33%	22.2
					Total (Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	66.7	20%	13.3
				Safety	· · · /	66.7	25%	16.7
	Total Benefit Sco	re		Economy		58.3	25%	14.6
		-		Community and N	ature	100.0	15%	15.0
				Operational Efficie		77.8	15%	11.7
							t Benefit Score	71.3
Bene	efit Score		71.3	1				
				-				

	Benefit Score	71.3
Benefit-Cost	Estimated Cost	\$5,710,000
	Estimated Users	39806
Calculation	Benefit-Cost Score	496.76
	Denent-Cost Score	150.70
	Denent-cost score	190170
	Delient-cost score	



Project Number		46	Category	Category Access Management and Safety			enefit Score	70.5
Jurisdiction	Route Name	Route Fro 460 Woo			om		Length (mi)	
City of Lynchburg	Timberlake Rd				d Rd	Hooper/Cha	arlie's Entrance	0.48
Proposed Improv	ement	Restri	•	-turn, install loon, a d left lane storage	add sidewalks,	Est. Cost	\$5,59	0,000
			Benefit	Score Calculati	on			
			Vision Theme	Mobility and Acce	essibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.72		Low	33.3	20%	6.7
uture Congestion			0.89		Medium	66.7	20%	13.3
Existing Traffic Volum	e		1203		High	100	20%	20.0
uture Traffic Volume			1482		High	100	20%	20.0
Alternative Transport	ation Facilities		One faci	lity	Medium	66.7	20%	13.3
					Total Mob	oility and Acce	essibility Score	73.3
			Visio	on Theme: Safety				
Category			Resul	-	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.83		Medium	66.7	50%	33.4
PSI Locations		Т	op 20 PSI locat	ion present	High	100	50%	50.0
						Tota	al Safety Score	83.4
			Vision	Thomas Frances			,	
Category			Resul	Theme: Economy	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
•	ent Density	Medium			Medium	66.7	25%	16.7
Surrounding Employment Density Freight Volume (%)		1			Low	33.3	25%	8.3
Teight Volume (70)			1		2000		conomy Score	50.0
				. Community and	Natura	Total E	conomy score	50.0
				e: Community and		Deinte	M/sisht	Coore
Category			Resul		Rating	Points	Weight	Score
Cultural Resources			Little to no i	•	High	100	50%	50.0
Environmental Resour	ces	_	Moderate i	mpact	Medium	66.7	50%	33.4
					Total Co	ommunity and	d Nature Score	83.4
			Vision Them	e: Operational Effi	ciency			
Category			Resul	t	Rating	Points	Weight	Score
Right-of-Way Sufficier	ю		Requires son	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	s		Two local	Two localities Medium		66.7	33%	22.2
					Total C	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acce	ssibility	73.3	20%	14.7
				Safety	5515111Cy	83.4	25%	20.8
	Total Benefit Scor	۵		Economy		50.0	25%	12.5
				Community and N	lature	83.4	15%	12.5
				Operational Efficie		83.4 66.7	15%	12.5
					LIICY			
						Total Project	t Benefit Score	70.5

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



Project Number		47	Category	Access Manager	ment and Safety	Project B	enefit Score	e 63.3
Jurisdiction	Route Name		Route	From		То		Length (m
City of Lynchburg	Timberlake Rd		460	Timbr	ook Pl	Rour	idelay Rd	3.66
Proposed Imp	provement		Restri	cted crossing U-Turr	I	Est. Cost	\$9,48	30,000
			Benefi	t Score Calculati	on			· · · · · · · · · · · · · · · · · · ·
				e: Mobility and Acce	-			
ategory			Result		Rating	Points	Weight	Score
xisting Congesti	on		0.63		Low	33.3	20%	6.7
uture Congestio	n		0.73		Low	33.3	20%	6.7
xisting Traffic Vo			1055	i	High	100	20%	20.0
uture Traffic Vol	ume		1220.	5	High	100	20%	20.0
Iternative Trans	portation Facilities		One fac	ility	Medium	66.7	20%	13.3
					Total Mob	ility and Acc	essibility Score	66.7
			Vis	ion Theme: Safety				
ategory			Resul	t	Rating	Points	Weight	Score
atal and Injury C	Crash Rate		0.83		Medium	66.7	50%	33.4
SI Locations			No PSI loca	ations	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Visio	n Theme: Economy				
Category			Resul	t	Rating	Points	Weight	Score
lacemaking		Do	oesn't include p	olacemaking	Low	33.3	25%	8.3
EDS Consistency	/		Could suppo	ort CEDS	Medium	66.7	25%	16.7
urrounding Emp	loyment Density		Mediu	m	Medium	66.7	25%	16.7
reight Volume (%)		1		Low	33.3	25%	8.3
						Total	Economy Score	50.0
			Vision Thom	ne: Community and	Naturo			
ategory			Resul	-	Rating	Points	Weight	Score
Cultural Resource			Little to no		High	100	50%	50.0
invironmental Re		Little to no impact			High	100	50%	50.0
				impuer	<u> </u>		d Nature Score	100.0
						initiality and	u Nature Score	100.0
				ne: Operational Effi	-			
Category	6 · ·		Resul	-	Rating	Points	Weight	Score
light-of-Way Suf		1	Requires significant ROW		Low	33.3	33%	11.1
lan Coordination			One other		Medium	66.7	33%	22.2
istribution of Be	enefits		Three or more	localities	High	100	33%	33.3
					Total C)perational I	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	66.7	20%	13.3
				Safety		50.0	25%	12.5
	Total Benefit Sco	re		Economy		50.0	25%	12.5
				Community and Na	ature	100.0	15%	15.0
				Operational Efficie	ncy	66.7	15%	10.0
						Total Projec	t Benefit Score	63.3
				•				
	Benefit Score		63.3	1				
3enetit-Cost	Estimated Cost		\$9,480,000					
Senefit-Cost	Estimated Users		33592	1				
Calculation	Damafit Cost Cost		224.41					
Calculation	Benefit-Cost Score							
Calculation	Benefit-Cost Score	•						

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



Project Number		48 Categ	48 Category Ac		Access Management and Safety		enefit Score	62.9
Jurisdiction	Route Name	Rout	te	e From			То	Length (mi
City of Lvnchburg	Timberlake Rd	460)	Timber Ridge II A	partments Entrance		-	2.7
Proposed Impro	vement	F	Restri	cted crossing U-Tu	irn	Est. Cost	\$855	5,000
				t Score Calcula				
				e: Mobility and Ad		Datata	14/-1-1-1	6
Category		Resu			Rating	Points	Weight	Score
xisting Congestion			0.5		Low	33.3	20%	6.7
uture Congestion			0.5		Low	33.3	20%	6.7
xisting Traffic Volum			907		High	100	20%	20.0
uture Traffic Volum			959		High	100	20%	20.0
Alternative Transport	tation Facilities	On	ne fac	ility	Medium	66.7	20%	13.3
			10	·		ility and Acce	ssibility Score	66.7
ategory			Resu	ion Theme: Safety	Rating	Points	Weight	Score
atal and Injury Crash	n Rate		0.84		Medium	66.7	50%	33.4
PSI Locations	indic	No P		ations	Low	33.3	50%	16.7
Si Locations		11013	51100		2011		al Safety Score	50.0
			Visio	on Theme: Econon	av.	1010	a survey score	50.0
Category			Resu		Rating	Points	Weight	Score
Placemaking		Doesn't incl	lude	olacemaking	Low	33.3	25%	8.3
CEDS Consistency		Could s	suppo	ort CEDS	Medium	66.7	25%	16.7
Surrounding Employr	nent Density		Low		Low	33.3	25%	8.3
reight Volume (%)			1		Low	33.3	25%	8.3
						Total E	conomy Score	41.7
		Vision	Then	ne: Community an	d Nature			
Category			Resu	lt	Rating	Points	Weight	Score
Cultural Resources		Little t	to no	impact	High	100	50%	50.0
Environmental Resou	irces	Little t	to no	impact	High	100	50%	50.0
					Total Co	mmunity and	Nature Score	100.0
		Vision	n The	me: Operational E	fficiency			
Category			Resu		Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy	Requires l	little	or no ROW	High	100	33%	33.3
Plan Coordination		No o	other	plans	Low	33.3	33%	11.1
Distribution of Benef	its	Three or	more	localities	High	100	33%	33.3
					Total O	perational El	ficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acce	ssibility	66.7	20%	13.3
				Safety		50.0	25%	12.5
	Total Benefit Score	•		Economy		41.7	25%	10.4
				Community and N	lature	100.0	15%	15.0
				Operational Efficie	,	77.8	15%	11.7
						Total Project	Benefit Score	62.9

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



Project Number		49	Category	Access Managen	nent and Safety	Project B	enefit Score	64.6	
Jurisdiction	Route Name	Route From		m	То		Length (mi)		
City of Lvnchburg	Timberlake Rd		460		Whitten Timberlake Chapel Entrance		usiness Center trance	1.06	
Proposed Impro	vement		Access Mana	agement Improvem	ients	Est. Cost	\$1,87	0,000	
			Benefit	Score Calculati	on				
			Vision Theme:	Mobility and Acce	ssibility				
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 Volun			907		High	100	20%	20.0	
Future Traffic Volum	-		959		High	100	20%	20.0	
Alternative Transport	tation Facilities		One facil	ity	Medium	66.7	20%	13.3	
					Total Mot	oility and Acce	essibility Score	66.7	
			Visio	n Theme: Safety					
Category			Result		Rating	Points	Weight	Score	
Fatal and Injury Crasl	h Rate		0.84		Medium	66.7	50%	33.4	
PSI Locations			No PSI locations		Low	33.3	50%	16.7	
						Tota	al 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 suppor	t CEDS	Medium	66.7	25%	16.7	
Surrounding Employ	ment Density		Low		Low	33.3	25%	8.3	
Freight Volume (%)			1 Low			33.3	25%	8.3	
						Total E	conomy Score	41.7	
			Vision Theme	: Community and I	Nature				
Category			Result	•	Rating	Points	Weight	Score	
Cultural Resources			Little to no i	mpact	High	100	50%	50.0	
Environmental Resou	irces		Little to no i	mpact	High	100	50%	50.0	
					Total Co	ommunity and	100.0		
			Vision Them	e: Operational Effi					
Category			Result	•	Rating	Points	Weight	Score	
Right-of-Way Sufficie	ency		Requires little o		High	100	33%	33.3	
Plan Coordination			One other		Medium	66.7	33%	22.2	
Distribution of Benef	ite		Three or more	-		100	33%		
			mee of more		High Total (33% fficiency Score	33.3 88.9	
					TOLAT	Sperational E		00.9	
				Vision Theme		Points	Weight	Score	
				Mobility and Acces	sibility	66.7	20%	13.3	
	_			Safety		50.0	25%	12.5	
	Total Benefit Scor	е		Economy		41.7	25%	10.4	
				Community and Na		100.0	15%	15.0	
				Operational Efficie	ncy	88.9	15%	13.3	
						Total Project	Benefit Score	64.6	

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



Project N	lumber	51	Category	Roadway Rec	onstruction	Project B	enefit Score	57.8
Jurisdiction	Route Name		Route	Fro	om To		То	Length (mi)
Bedford County	Boonsboro Rd	501 Winding Cre			k Ln (Rt 647)		-	
Proposed Improv	ement		Relocate inters	ection, construct tu	rn lane	Est. Cost	\$1,88	30,000
			Benefit	Score Calculation	on			
				Mobility and Acce				
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 Transporta	tion Eacilitios		No facili	tios	Low	33.3	20%	6.7
	tion raciities		No lacin	lies	-			-
					Total Mol	bility and Acc	essibility Score	60.0
			Visio	on Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		0.42		Low	33.3	50%	16.7
PSI Locations			No PSI loc	ations	Low	33.3	50%	16.7
						Tot	al Safety Score	33.3
			Vision	Theme: Economy				
Category			Resul	•	Rating	Points	Weight	Score
Placemaking		Dr	pesn't include p	· · · · · · · · · · · · · · · · · · ·	Low	33.3	25%	8.3
		D			Medium	66.7	25%	16.7
Surrounding Employm	ant Dancity		Could support CEDS Medium		Medium	66.7	25%	16.7
	ent Density		4			100	25%	25.0
Freight Volume (%)		_	4	_	High			
						Total I	conomy Score	66.7
			Vision Theme	e: Community and N	Nature			
Category			Resul	-	Rating	Points	Weight	Score
Cultural Resources			Little to no	impact	High	100	50%	50.0
Environmental Resour	ces		Moderate	mpact	Medium	66.7	50%	33.4
					Total Co	ommunity an	d Nature Score	83.4
			Vision Them	e: Operational Effic	iency			
Category			Resul	t	Rating	Points	Weight	Score
Right-of-Way Sufficien	су		Requires sor	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			One other	. plan	Medium	66.7	33%	22.2
Distribution of Benefits	5		One loca	ality	Low	33.3	33%	11.1
				-			fficiency Score	55.6
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
	Total Benefit Scor	e		Economy		66.7	25%	16.7
				Community and N	ature	83.4	15%	12.5
				Operational Efficie	ency	55.6	15%	8.3
					-		t Benefit Score	57.8

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



Projec	t Number	52	Category	Roadway Capa	city Expansion	Project B	enefit Score	67.4		
Jurisdiction	Route Name	Route		oute From		Route From			То	Length (mi)
Campbell County	Campbell Highway	iy 501 Village			d (Rt 24)	Suburba	n Rd (Rt 680)	2.22		
Proposed Impro	ovement		W	iden to 4 lanes		Est. Cost	\$58,2	30,000		
				Score Calculation	-					
Catagory				Mobility and Acce	-	Delate	Mainha	Coord		
Category Existing Congestion			Result 0.52		Rating Low	Points 33.3	Weight 20%	Score 6.7		
Future Congestion			0.32		Low	33.3	20%	6.7		
Existing Traffic Volu	mo.		814		High	100	20%	20.0		
Future Traffic Volu			1136		High	100	20%	20.0		
Alternative Transpo			No facilit	ies	Low	33.3	20%	6.7		
	rtation racintics		i to facilit				essibility Score	60.0		
			Vicio	on Theme: Safety			essibility Score	00.0		
Category			Result	-	Rating	Points	Weight	Score		
-ategory Fatal and Injury Cras	sh Rate		0.22		Low	33.3	50%	16.7		
PSI Locations			PSI locations	oresent	Medium	66.7	50%	33.4		
		-		present	Weddulli					
						lot	al Safety Score	50.0		
				Theme: Economy		-				
Category			Result		Rating	Points	Weight	Score		
Placemaking		D	oesn't include p	-	Low	33.3	25%	8.3		
CEDS Consistency			Supports C	EDS	High	100	25%	25.0		
Surrounding Employ	ment Density		High		High	100	25%	25.0		
Freight Volume (%)		_	2	_	Medium	66.7	25%	16.7		
						Total I	Economy Score	75.0		
			Vision Theme	e: Community and N	Nature					
Category			Result		Rating	Points	Weight	Score		
Cultural Resources			Little to no i	mpact	High	100	50%	50.0		
Environmental Reso	ources		Moderate ir	npact	Medium	66.7	50%	33.4		
					Total Co	ommunity an	d Nature Score	83.4		
			Vision Them	e: Operational Effic	ciency					
Category			Result	:	Rating	Points	Weight	Score		
Right-of-Way Suffici	ency		Requires signific	cant ROW	Low	33.3	33%	11.1		
Plan Coordination			Two or more	plans	High	100	33%	33.3		
Distribution of Bene	fits		Three or more	localities	High	100	33%	33.3		
					Total (Operational E	fficiency Score	77.8		
				Vision Theme		Points	Weight	Score		
				Mobility and Acces	ssibility	60.0	20%	12.0		
				Safety	-	50.0	25%	12.5		
	Total Benefit Sco	re		Economy		75.0	25%	18.8		
				Community and N	ature	83.4	15%	12.5		
				Operational Efficie		77.8	15%	11.7		
						Total Projec	t Benefit Score	67.4		
Be	nefit Score		67.4	1						

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



Project	Number	56	Category	Multimodal Ca	pacity Expansion	Project B	enefit Score	72.2	
Jurisdiction	Route Name	Route From		om		То	Length (mi		
City of Lynchburg	Campbell Ave		501 Bus	Kem	per St	0	tey St	1.06	
Proposed Improv	vement	VUL Ga	teway Roundab	out, Road Diet (Ken	nper St to Otey St)	Est. Cost	\$3,80	0,000	
				t Score Calculat	-				
			Vision Theme	e: Mobility and Acc	essibility				
ategory			Result		Rating	Points	Weight	Score	
xisting Congestion			0.54		Low	33.3	20%	6.7	
uture Congestion			0.68		Low	33.3	20%	6.7	
xisting Traffic Volum	e		915.67	7	High	100	20%	20.0	
uture Traffic Volume			1132		High	100	20%	20.0	
Iternative Transport	ation Facilities		Two or more	facilities	High	100	20%	20.0	
					Total Mob	ility and Acc	essibility Score	73.3	
			Vis	ion Theme: Safety					
ategory			Result	t	Rating	Points	Weight	Score	
atal and Injury Crash	Rate		0.72		Medium	66.7	50%	33.4	
SI Locations			No PSI loca	itions	Low	33.3	50%	16.7	
						Tot	al Safety Score	50.0	
			Visio	n Theme: Economy	1				
ategory			Result	t	Rating	Points	Weight	Score	
lacemaking		Includes placemaking			High	100	25%	25.0	
EDS Consistency	Consistency			rt CEDS	Medium	66.7	25%	16.7	
urrounding Employment Density			Low		Low	33.3	25%	8.3	
Freight Volume (%)			2		Medium	66.7	25%	16.7	
						Total E	Economy Score	66.7	
			Vision Them	e: Community and	Nature				
ategory			Result	-	Rating	Points	Weight	Score	
ultural Resources		Little to no impact			High	100	50%	50.0	
nvironmental Resou	rces	Little to no impact			High	100	50%	50.0	
						mmunity an	d Nature Score	100.0	
) (isian They					10010	
ategory			Result	ne: Operational Eff	Rating	Points	Weight	Score	
ight-of-Way Sufficier	201		Requires little o		Ŭ	100	33%	33.3	
<u> </u>	icy		•		High				
lan Coordination			Two or more	•	High	100	33%	33.3	
istribution of Benefit	ts		Two local	10.05	Medium	66.7	33%	22.2	
					Total C	Operational E	fficiency Score	88.9	
				Vision Theme		Points	Weight	Score	
				Mobility and Acces	sibility	73.3	20%	14.7	
				Safety		50.0	25%	12.5	
	Total Benefit Sco	re		Economy		66.7	25%	16.7	
				Community and Na	ature	100.0	15%	15.0	
				Operational Efficie	ncy	88.9	15%	13.3	
						Total Projec	t Benefit Score	72.2	
Bene	efit Score		72.2						
			62.000.000						

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



Project Number		57 Category		Intersection Re	Intersection Reconstruction		Project Benefit Score		
Jurisdiction	Route Name	Route From		-	Го	Length (mi)			
City of Lynchburg	Campbell Ave		501 Bus	Florida	a Ave		-		
Proposed Improv	ement		Construc	t 2 lane Roundabou	ıt	Est. Cost	\$5,800	0.000	
			Bonofit	Score Calculatio	n		1 - 7	- /	
		,		Mobility and Acces					
Category			Result	inobility and ricees	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 Volum	2		1062		High	100	20%	20.0	
Future Traffic Volume	-		1543		High	100	20%	20.0	
	tion Facilities			lity /	Medium	66.7	20%	13.3	
Alternative Transporta	ation Facilities		One faci	lity					
					Total Mol	bility and Acce	ssibility Score	73.3	
				n Theme: Safety					
Category			Result		Rating	Points	Weight	Score	
Fatal and Injury Crash	Rate		8.85		High	100	50%	50.0	
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7	
						Tota	I Safety Score	66.7	
			Vision	Theme: Economy					
Category			Result	:	Rating	Points	Weight	Score	
Placemaking			Includes place	emaking	High	100	25%	25.0	
CEDS Consistency		Could support CEDS		rt CEDS	Medium	66.7	25%	16.7	
Surrounding Employm	ent Density		Low	Low Low		33.3	25%	8.3	
Freight Volume (%)			2		Medium	66.7	25%	16.7	
						Total E	conomy Score	66.7	
			Vision Theme	: Community and N	ature				
Category			Result	-	Rating	Points	Weight	Score	
Cultural Resources			Little to no i	mpact	High	100	50%	50.0	
Environmental Resour	ces		Little to no i	mpact	High	100	50%	50.0	
					Total Co	ommunity and	Nature Score	100.0	
			Vision Theme	: Operational Effici	encv				
Category			Result		Rating	Points	Weight	Score	
Right-of-Way Sufficier	CV		Requires little o		High	100	33%	33.3	
Plan Coordination			Two or more		High	100	33%	33.3	
Distribution of Benefit	s		Two local	-	Medium	66.7	33%	22.2	
bistribution of benefit	5		11001000			Operational Ef		88.9	
				Vision Theme		Points	Weight	Score	
				Mobility and Acces	sibility	73.3	20%	14.7	
				Safety -		66.7	25%	16.7	
	Total Benefit Scor	е		Economy		66.7	25%	16.7	
				Community and Na		100.0	15%	15.0	
				Operational Efficie	ncy	88.9	15%	13.3	
						Distant Distant	Benefit Score	76.3	

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



Project Number		60	Category	Intersection Re	construction	Project B	enefit Score	70.8
Jurisdiction	Route Name		Route	Fro	m	То		Length (mi
City of	Candlers Mountain	Rd	29/128	Wards Rd	(US 29)		-	
Lvnchburg								
Proposed Impro	ovement	Bridge re		provements on sout ersection legs	h, north & west	Est. Cost	\$15,0	00,000
				Score Calculatio	n			
			Vision Theme:	Mobility and Access	sibility			
ategory			Result		Rating	Points	Weight	Score
xisting Congestion			0.4		Low	33.3	20%	6.7
uture Congestion			0.6		Low	33.3	20%	6.7
xisting Traffic Volu	me		692		High	100	20%	20.0
uture Traffic Volur	ne		733		High	100	20%	20.0
Iternative Transpo	rtation Facilities		One facil	ity	Medium	66.7	20%	13.3
					Total Mob	ility and Acc	essibility Score	66.7
			Visio	n Theme: Safety				
ategory			Result		Rating	Points	Weight	Score
atal and Injury Cra	sh Rate		1.82		High	100	50%	50.0
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tot	al Safety Score	66.7
			Vicion					
				Theme: Economy	Datias	Dulate	144 - 1-1-1	6
Category		Result		Rating	Points	Weight	Score	
lacemaking		Could include placemaking		Medium	66.7	25%	16.7	
EDS Consistency	and Describe	Could support CEDS		Medium	66.7 100	25% 25%	16.7 25.0	
Surrounding Emplo	yment Density	High 8			High High	100	25%	25.0
reight Volume (%)			8		півіі			
						l otal E	conomy Score	83.4
			Vision Theme:	Community and Na	ature			
Category			Result	:	Rating	Points	Weight	Score
Cultural Resources			Little to no i	mpact	High	100	50%	50.0
invironmental Reso	ources		Little to no ii	mpact	High	100	50%	50.0
					Total Co	mmunity and	d Nature Score	100.0
			Vision Theme	: Operational Effici	ency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffic	iency		Requires signific		Low	33.3	33%	11.1
Plan Coordination			No other p	lans	Low	33.3	33%	11.1
Distribution of Bene	efits		One loca		Low	33.3	33%	11.1
	·			·		•	fficiency Score	33.3
					- Total C		melency Score	
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	66.7	20%	13.3
				Safety		66.7	25%	16.7
	Total Benefit Sc	ore		Economy		83.4	25%	20.8
				Community and Na		100.0	15%	15.0
				Operational Efficie	ncy	33.3	15%	5.0
				·			t Benefit Score	70.8

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



Proje	ct Number	62	Category	Intersection Re	econstruction	Project Benefit Score		80.3
Jurisdiction	Route Name		Route	Fro	m		То	Length (mi)
City of	Candlers Mountain	Rd	501	Murra	ay Pl		-	
Lvnchburg								
Proposed Impr	roposed Improvement Long-term: Convert four-leg intersection to three-leg Est. Cost \$7,30					0,000		
				and install left turn Score Calculation				· ·
				: Mobility and Acces				
Category			Result		Rating	Points	Weight	Score
Existing Congestion	1		0.8		Medium	66.7	20%	13.3
Future Congestion			1.31		High	100	20%	20.0
Existing Traffic Volu	ıme		1291		High	100	20%	20.0
Future Traffic Volu			2124		High	100	20%	20.0
Alternative Transpo	ortation Facilities		One faci	lity	Medium	66.7	20%	13.3
				-		oility and Acc	essibility Score	86.7
			Visio	on Theme: Safety				
Category			Resul	-	Rating	Points	Weight	Score
Fatal and Injury Cra	ash Rate		1.31		Medium	66.7	50%	33.4
PSI Locations		т	op 20 PSI locati	ion procont		100	50%	50.0
		1	0p 20 P 31 10cati	onpresent	High		al Safety Score	83.4
			Visior	Theme: Economy		100		0011
Cotocom				,	Dating	Deinte	Maight	Coore
Category Placemaking		Result Doesn't include placemaking		Rating Low	Points 33.3	Weight 25%	Score 8.3	
0				-				
CEDS Consistency		Could support CEDS		Medium	66.7	25%	16.7	
Surrounding Emplo		High		High	100	25%	25.0	
Freight Volume (%)		4			High	100	25% Economy Score	25.0 75.0
			Vision Thom	e: Community and N	Naturo	TOLAT	conomy score	75.0
Catagory			Resul	-	Rating	Points	Weight	Score
Category				-				
Cultural Resources			Little to no i	•	High	100	50%	50.0
Environmental Res	ources	_	Little to no i	impact	High	100	50%	50.0
					Total Co	ommunity an	d Nature Score	100.0
			Vision Them	e: Operational Effic	ciency			
Category			Resul	t	Rating	Points	Weight	Score
Right-of-Way Suffic	ciency		Requires som	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			No other p	olans	Low	33.3	33%	11.1
Distribution of Ben	efits		Two local		Medium	66.7	33%	22.2
							fficiency Score	55.6
					Total C	sperational	inciency Scole	55.0
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	86.7	20%	17.3
	_			Safety		83.4	25%	20.8
	Total Benefit Sco	re		Economy		75.0	25%	18.8
				Community and Na	ature	100.0	15%	15.0
				One metion of Efficient	001	55.6	15%	8.3
				Operational Efficier			t Benefit Score	80.3

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



Proj	ect Number	63	Category	Roadway Capad	city Expansion	Project B	Benefit Score	74.4
Jurisdiction	Route Name		Route	Fro	m		То	Length (mi)
City of Lvnchburg	' Candlers Mountain Rd		501/128E	Mayflower Dr (Rt 128)		-		
Proposed Imp	provement	In	stall left turn la	ne and extend right	turn lane	Est. Cost	\$2,80	00,000
	Benefit Score Calculation Vision Theme: Mobility and Accessibility							
Category			Result		Rating	Points	Weight	Score
Existing Congestion	on		0.8		Medium	66.7	20%	13.3
Future Congestio	n		1.31		High	100	20%	20.0
Existing Traffic Vo	xisting Traffic Volume 1291 High 100		20%	20.0				
Future Traffic Vol	e Traffic Volume 2124		High	100	20%	20.0		
Alternative Trans	portation 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					
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						

Vision Theme: Community and I	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
---------------	-------------	------------

vision meme: Operational Enclency						
Category	Resu	ılt	Rating	Points	Weight	Score
Right-of-Way Sufficiency	Requires signi	ficant ROW	Low	33.3	33%	11.1
Plan Coordination	No other	plans	Low	33.3	33%	11.1
Distribution of Benefits	Two loca	alities	Medium	66.7	33%	22.2
Total Operational Efficiency Score						44.4
		Vision Theme		Points	Weight	Score
Total Benefit Score		Mobility and Acces	ssibility	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 Efficie	ncy	44.4	15%	6.7
				Total Projec	t Benefit Score	74.4

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



Project Number		64	Category	Roadway Reconstruction		Project Benefit Score		57.7
Jurisdiction	Route Name		Route	From		То		Length (mi)
Bedford County	Cottontown Rd	621 Hooper Rd (Rt 6		l (Rt 662)	Hawkins Mill Rd (Rt 660)		1.68	
Proposed Improvement			Reconst	ruct 2 lane roadway		Est. Cost	\$14,8	30,000
			Bonofit	Score Calculatio	2			
				Mobility and Acces				
Cotocom.				Wobility and Acces		Points	Maight	Score
Category Existing Congestion		Result			Rating Low	33.3	Weight 20%	6.7
		0.21			Low	33.3	20%	6.7
uture Congestion			0.26)	Medium	66.7	20%	13.3
Existing Traffic Volum			370	3				
uture Traffic Volume				•	High	100	20%	20.0
Alternative Transporta	ation Facilities		No facilit	les	Low	33.3	20%	6.7
					Total Mol	bility and Acco	essibility Score	53.3
			Visio	n Theme: Safety				
Category		Result	t	Rating	Points	Weight	Score	
Fatal and Injury Crash Rate			0.56		Medium	66.7	50%	33.4
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7
					Tota	al Safety Score	50.0	
			Vision	Theme: Economy				
Category			Result	,	Rating	Points	Weight	Score
lacemaking					Low	33.3	25%	8.3
EDS Consistency		-	Doesn't suppo		Low	33.3	25%	8.3
Surrounding Employm	ent Density		Mediu		Medium	66.7	25%	16.7
reight Volume (%)		1			Low	33.3	25%	8.3
			-		2011		conomy Score	41.7
			Vision Theme	: Community and N	ature	Total	contrary score	
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
Environmental Resources			Moderate i	•	Medium	66.7	50%	33.4
		-	moderate	ilpace			d Nature Score	83.4
			Vision Them	e: Operational Effici		Similarity and		05.4
Category			Resul	-	Rating	Points	Weight	Score
Right-of-Way Sufficier	icy	Requires little			High	100	33%	33.3
Plan Coordination		One other p			Medium	66.7	33%	22.2
Distribution of Benefit	s			Two localities		66.7		22.2
	۰ 				Medium		33%	
					Total	Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	53.3	20%	10.7	
Total Benefit Score			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	
				Operational Efficie	incy	//.0	15%	11./

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



Project Number		65	Category	Roadway Reconstruction		Project Benefit Score		53.7
Jurisdiction	Route Name		Route From		То		Length (mi)	
Bedford County	Cottontown Rd		621	Coffee Rd (Rt 644)		Hooper Rd (Rt 662)		8.02
Proposed Improv	Reconstruct 2 lane roadway			Est. Cost	\$33,22	20,000		
			Benefit S	core Calculatio	n			
				Mobility and Access				
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 Volum	5		61.5		Low	33.3	20%	6.7
Future Traffic Volume	-		97.5		Low	33.3	20%	6.7
Alternative Transportation Facilities			No facilit	ies	Low	33.3	20%	6.7
					-		essibility 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 loca	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Vision 1	Theme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking	Doesn't include placemaking			Low	33.3	25%	8.3	
CEDS Consistency	DS Consistency Doesn'			Doesn't support CEDS Low			25%	8.3
Surrounding Employment Density		Medium			Medium	66.7	25%	16.7
Freight Volume (%)		1			Low	33.3	25%	8.3
						Total E	conomy Score	41.7
			Vision Theme:	Community and Na	ature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
Environmental Resour	Moderate impact Medium				66.7	50%	33.4	
					Total Co	ommunity and	l Nature Score	83.4
				: Operational Efficie	-			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficier	су	Requires little or no R			High	100	33%	33.3
Plan Coordination		One other pl			Medium	66.7	33%	22.2
Distribution of Benefit	s		Two locali	ties	Medium	66.7	33%	22.2
					Total (Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	33.3	20%	6.7
Total Benefit Score			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	
				operational Efficie	incy		Benefit Score	53.7

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



Project Number		66 Category	Roadway Rec	onstruction	Project B	enefit Score	51.7
Jurisdiction	Route Name	Route	m	То		Length (mi	
Bedford County	Everett Rd	622	Kensingto	on Pkwy	Gladden	Cir (Rt 646)	3.97
Proposed Improv	ement	Reconst	ruct 2 lane roadw	ay	Est. Cost	\$25,00	00,000
		Benefi	t Score Calculatio	n			
		Vision Theme	e: Mobility and Acces	sibility			
Category		Result		Rating	Points	Weight	Score
Existing Congestion		0.0	5	Low	33.3	20%	6.7
-uture Congestion		0.1	1	Low	33.3	20%	6.7
Existing Traffic Volume	2	66	;	Low	33.3	20%	6.7
- uture Traffic Volume		14	6	Low	33.3	20%	6.7
Alternative Transporta	tion Facilities	No faci	lities	Low	33.3	20%	6.7
				_		essibility Score	33.3
		Vis	ion Theme: Safety				
Category		Resu	-	Rating	Points	Weight	Score
atal and Injury Crash	Rate	0.6	4	Medium	66.7	50%	33.4
SI Locations		No PSI lo	cations	Low	33.3	50%	16.7
					Tota	al Safety Score	50.0
		Visio	n Theme: Economy				
Category		Resu	ult	Rating	Points	Weight	Score
Placemaking		Doesn't include	placemaking	Low	33.3	25%	8.3
CEDS Consistency		Doesn't sup	port CEDS	Low	33.3	25%	8.3
Surrounding Employm	ent Density	Lov	N	Low	33.3	25%	8.3
reight Volume (%)		0	0		33.3	25%	8.3
					Total E	conomy Score	33.3
		Vision Them	e: Community and N	ature			
Category		Resu	ult	Rating	Points	Weight	Score
Cultural Resources		Little to no	ttle to no impact High			50%	50.0
Environmental Resour	ces	Moderate	e impact	Medium	66.7	33.4	
				Total Co	ommunity and	d Nature Score	83.4
		Vision Ther	ne: Operational Effici	ency			
Category		Resu	ult	Rating	Points	Weight	Score
Right-of-Way Sufficien	су	Requires little	or no ROW	High	100	33%	33.3
Plan Coordination		One othe	er plan	Medium	66.7	33%	22.2
		Two loc	alities	Medium	66.7	33%	22.2
	5	1 WO IOC	untico				
	5 			Total	Operational E	fficiency Score	77.8
Distribution of Benefit	5	Two loc	Vision Theme	Total (Operational E Points	fficiency Score Weight	77.8 Score
	5	TWO IOC					
	5	100100	Vision Theme		Points 33.3	Weight 20%	Score
	5 Total Benefit Scor		Vision Theme Mobility and Acces		Points 33.3 50.0	Weight 20% 25%	Score 6.7
			Vision Theme Mobility and Acces Safety Economy	ssibility	Points 33.3 50.0 33.3	Weight 20% 25% 25%	Score 6.7 12.5 8.3
			Vision Theme Mobility and Acces Safety	ssibility	Points 33.3 50.0	Weight 20% 25%	Score 6.7 12.5

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



Proje	ect Number	67	Category	Roadway Rec	construction	Project B	enefit Score	61.6
Jurisdiction	Route Name		Route	Fro	m	То		Length (mi)
Amherst County	New Wright Shop R	d	622	Colony Rd	(Rt 210)	Dixie Airpo	rt Rd (Rt 677)	5.55
Proposed Imp	rovement		Recon	struct 2 lane road		Est. Cost	\$19,62	29,000
			Benefit	Score Calculatio	on			
			Vision Theme:	Mobility and Acces	sibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestio	n		0.27		Low	33.3	20%	6.7
Future Congestion			0.2875	5	Low	33.3	20%	6.7
Existing Traffic Vol			347.25	5	High	100	20%	20.0
Future Traffic Volu			445.5		High	100	20%	20.0
	oortation Facilities		No facilit	ies	Low	33.3	20%	6.7
					-		essibility Score	60.0
			Visio	n Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cr	rash Rate		0.63		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7
							al Safety Score	50.0
			Vision	Theme: Economy				
Category			Result	:	Rating	Points	Weight	Score
Placemaking		[Doesn't include p	lacemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
Surrounding Empl	oyment Density		High		High	100	25%	25.0
Freight Volume (%	ó)		2	2 Medium		66.7	25%	16.7
						Total E	conomy Score	58.3
			Vision Theme	: Community and N	lature			
Category			Result	:	Rating	Points	Weight	Score
Cultural Resources	S		Little to no i	impact High		100	50%	50.0
Environmental Re	sources		Moderate ii	mpact	Medium	66.7	50%	33.4
					Total C	ommunity and	Nature Score	83.4
			Vision Them	e: Operational Effici	iency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffi	iciency		Requires little o	r no ROW	High	100	33%	33.3
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Ber	nefits		One loca	lity	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	60.0	20%	12.0
				Safety		50.0	25%	12.5
Total Benefit Score				Economy		58.3	25%	14.6
				Community and Na	aturo	83.4	15%	12.5
				Community and Na	ature	05.4	13/0	12.5
				Operational Efficie		66.7	15%	10.0

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



Project I	Number	68	Category	Roadway Cap	acity Expansion	Project Benefit Score		62.6
Jurisdiction	Route Name		Route From			-	То	Length (mi
Bedford County	Waterlick Rd		622	Thomas Jeffer	rson Rd (Rt 811)		County Corp mits	0.9
Proposed Improv	ement		Wi	den to 4 lanes		Est. Cost	\$24,0	00,000
				Score Calculati	-			
				Mobility and Acce				
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.32		Low	33.3	20%	6.7
uture Congestion			0.49		Low	33.3	20%	6.7
Existing Traffic Volume	5		510		High	100	20%	20.0
uture Traffic Volume			828		High	100	20%	20.0
Iternative Transporta	ation Facilities		Two or more f	acilities	High	100	20%	20.0
					Total Mo	bility and Acce	ssibility Score	73.3
				n Theme: Safety				_
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.79		Medium	66.7	50%	33.4
PSI Locations		PSI locations present			Medium	66.7	50%	33.4
						Tota	I Safety Score	66.7
			Vision	Theme: Economy				
ategory			Result		Rating	Points	Weight	Score
lacemaking		[Doesn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
urrounding Employm	ent Density		High		High	100	25%	25.0
reight Volume (%)			1		Low	33.3	25%	8.3
						Total E	conomy Score	58.3
			Vision Theme	: Community and	Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no i	mpact	High	100	50%	50.0
nvironmental Resour	ces		High imp	act	Low	33.3	50%	16.7
					Total Co	ommunity and	Nature Score	66.7
			Vision Theme	e: Operational Effi	iciency			
Category			Result		Rating	Points	Weight	Score
light-of-Way Sufficien	су		Requires signific	cant ROW	Low	33.3	33%	11.1
lan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	s		One loca	lity	Low	33.3	33%	11.1
					Total	Operational Ef	ficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acc	essibility	73.3	20%	14.7
				Safety	,	66.7	25%	16.7
	Total Benefit Scor	е		Economy		58.3	25%	14.6
		-		· · · · ·	Nature	66.7	15%	10.0
			Community and N			55.7	-370	10.0
				Operational Effic	iencv	44.4	15%	6.7

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



Project	Project Number 69		Category Roadway Capacity Expansion		Project Be	enefit Score	69.8	
Jurisdiction	Route Name	Route			om	То		Length (mi)
Campbell County	Waterlick Rd		622	Bedford Cou	inty Corp Limit		orest Dr (Rt 20)	1.12
Proposed Improv	rement		Wi	den to 4 lanes		Est. Cost	\$28,99	90,000
				Score Calculat Mobility and Acco				
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 Volum	e		537		High	100	20%	20.0
Future Traffic Volume			922		High	100	20%	20.0
Alternative Transporta	ation Facilities		Two or more f	acilities	High	100	20%	20.0
					Total Mo	bility and Acce	ssibility Score	86.7
			Visio	n 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 p	present	Medium	66.7	50%	33.4
						Tota	l Safety Score	66.7
			Vision	Theme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking		0	oesn't include pl		Low	33.3	25%	8.3
CEDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
Surrounding Employm	nent Density		High		High	100	25%	25.0
Freight Volume (%)		_	2		Medium	66.7	25%	16.7
						Total E	conomy Score	66.7
-				: Community and				_
Category				Result Rating		Points	Weight	Score
Cultural Resources			Little to no ir	•	High	100	50% 50%	50.0
Environmental Resou	rces	_	Moderate in	npact	Medium	66.7	33.4	
						ommunity and	Nature Score	83.4
Category			Vision Them Result	e: Operational Eff	iciency Rating	Points	Weight	Score
Right-of-Way Sufficier			Requires signific		Low	33.3	33%	11.1
Plan Coordination	-1		One other		Medium	66.7	33%	22.2
Distribution of Benefit			One local		Low	33.3	33%	11.1
						Operational Ef		44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	86.7	20%	17.3
				Safety		66.7	25%	16.7
	Total Benefit Sco	re		Economy		66.7	25%	16.7
		-		Community and N	Nature	83.4	15%	12.5
				Operational Effici		44.4	15%	6.7
					-		Benefit Score	69.8

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



Project	Number	70	Category	Roadway Cap	acity Expansion	nsion Project Benefit Sc		63.7
Jurisdiction	Route Name	Route From		rom	То		Length (mi)	
Campbell County	Waterlick Rd	622 Timberla			e Rd (US 460)	Leesville	Rd (Rt 682)	0.93
Proposed Improv	vement		W	iden to 4 lanes		Est. Cost	\$24,22	20,000
				Score Calculat	-			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.38		Low	33.3	20%	6.7
uture Congestion			0.46		Low	33.3	20%	6.7
Existing Traffic Volum	e		605		High	100	20%	20.0
uture Traffic Volume			788		High	100	20%	20.0
Alternative Transport	ation Facilities		One facil	ity	Medium	66.7	20%	13.3
				,	Total Mo	bility and Acce	ssibility Score	66.7
			Visio	on Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.50		Low	33.3	50%	16.7
PSI Locations		Top 20 PSI location present			High	100	50%	50.0
						Tota	66.7	
			Vision	Theme: Economy	,			
Category			Result		Rating	Points	Weight	Score
Placemaking		0	oesn't include p	lacemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
Surrounding Employn	nent Density		High		High	100	25%	25.0
Freight Volume (%)			2		Medium	66.7	25%	16.7
						Total E	conomy Score	58.3
			Vision Theme	e: Community and	Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no i	mpact	High	100	50%	50.0
Environmental Resou	rces		Moderate ir	npact	Medium	66.7	50%	33.4
					Total C	ommunity and	Nature Score	83.4
Catagory				e: Operational Eff		Doints	Moight	Score
C ategory Right-of-Way Sufficier			Result Requires signific		Rating	Points	Weight	Score
	icy				Low	33.3	33%	11.1
Plan Coordination			One other		Medium	66.7	33%	22.2
Distribution of Benefi	S		One loca	ш т у	Low	33.3	33%	11.1
					Total	Operational Ef	ficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	66.7	20%	13.3
	_			Safety		66.7	25%	16.7
	Total Benefit Sco	re		Economy		58.3	25%	14.6
				Community and N		83.4	15%	12.5
				Operational Effici	ency	44.4	15%	6.7
					Total Droject	Benefit Score	63.7	

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



Project N	Number	72	Category	Roadway Rec	construction	Project B	enefit Score	47.5
Jurisdiction	Route Name	Route From			m	То		Length (mi)
Bedford County	Turkey Foot Rd	623 Thomas Jeffers			on Rd (Rt 811)		County Corp imits	1.24
Proposed Improv	ement	Widen	pavement to 24 ft		Est. Cost	\$10,4	70,000	
			Benefit	Score Calculatio	on			
			Vision Theme:	Mobility and Acces	sibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.06		Low	33.3	20%	6.7
uture Congestion			0.06		Low	33.3	20%	6.7
Existing Traffic Volume	e		95		Low	33.3	20%	6.7
uture Traffic Volume			109		Low	33.3	20%	6.7
Alternative Transporta	ation Facilities		No facilit	ties	Low	33.3	20%	6.7
					Total Mo	bility and Acc	essibility Score	33.3
			Visio	on Theme: Safety				
Category			Result	t	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.00		Low	33.3	50%	16.7
SI Locations			No PSI loca	ntions	Low	33.3	50%	16.7
						Tot	al Safety Score	33.3
			Vision	Theme: Economy				
ategory			Result	-	Rating	Points	Weight	Score
Placemaking		C	oesn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
Surrounding Employm	ent Density		High		High	100	25%	25.0
Freight Volume (%)			0		Low	33.3	25%	8.3
					•	Total E	Economy Score	50.0
			Vision Theme	e: Community and N	lature			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
Environmental Resour	ces			High impact Low			50%	16.7
					Total C	ommunity and	d Nature Score	66.7
			Vision Thom	e: Operational Effici				
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficien	ICV		Requires little o		High	100	33%	33.3
Plan Coordination	,		One other		Medium	66.7	33%	22.2
Distribution of Benefit	s		One loca	•	Low	33.3	33%	11.1
					<u> </u>		fficiency Score	66.7
					Total	operational E	mclency Score	00.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	33.3	20%	6.7
	.			Safety -		33.3	25%	8.3
	Total Benefit Scor	е		Economy		50.0	25%	12.5
				Community and Na		66.7	15%	10.0
				Operational Efficie	ncy	66.7	15%	10.0
						Total Projec	t Benefit Score	47.5
	fit Casas		47 5	7				
Bene	fit Score		47.5					

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



Project Number		73 Category Roadway Rec		construction	Project B	52.1		
Jurisdiction	Route Name	Route From			om	То		Length (mi)
Bedford County	Coffee Rd	644 Elk Valley R			d (Rt 665N)	Lynchbur	g Corp Limit	8.9
Proposed Improve	ement		Recons	truct 2 lane roadway	/	Est. Cost	\$52,3	30,000
			Benefit	Score Calculation	on			
			Vision Theme	: Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.046	i	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 Transportat	ion Facilities		No facili	ties	Low	33.3	20%	6.7
·					Total Mo	bility and Acce	essibility Score	33.3
			Visi	on Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash F	Rate		0.64		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	ations	Low	33.3	50%	16.7
					Tota	al Safety Score	50.0	
			Visio	n Theme: Economy				
Category			Resul	Result		Points	Weight	Score
Placemaking		D	oesn't include p	olacemaking	Low	33.3	25%	8.3
CEDS Consistency		Doesn't support CEDS			Low	33.3	25%	8.3
Surrounding Employme	ent Density		Low		Low	33.3	25%	8.3
Freight Volume (%)		3			Medium	66.7	25%	16.7
						Total E	conomy Score	41.7
			Vision Them	e: Community and I	Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
Environmental Resourc	es	Moderate impact			Medium 66.7 50%			33.4
					Total C	ommunity and	d Nature Score	83.4
			Vision Then	ne: Operational Effic	ciency			
Category			Resul	t	Rating	Points	Weight	Score
Right-of-Way Sufficiend	Су		Requires little c	or no ROW	High	100	33%	33.3
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefits			One loca	lity	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	33.3	20%	6.7
				Safety		50.0	25%	12.5
	Total Benefit Sco	re		Economy		41.7	25%	12.5
lotal Benefit Score				,	ature	83.4	15%	10.4
			Community and Nature			10/0	12.5	
				Operational Efficie	ncv	66.7	15%	10.0

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



Project l	Number 7	74 Category Roadway Reconstruction		construction	Project B	enefit Score	49.6
Jurisdiction	Route Name	Route From				Length (m	
Amherst County	Cedar Gate Rd	652	57	R	t 675	1	
Proposed Improv	rement	2 lar	ne reconstruction		Est. Cost	\$7,27	0,000
		Benefit	Score Calculation	on			
		Vision Theme	: Mobility and Acce	ssibility			
Category		Result		Rating	Points	Weight	Score
xisting Congestion		0.08		Low	33.3	20%	6.7
uture Congestion		0.1		Low	33.3	20%	6.7
xisting Traffic Volum	e	97		Low	33.3	20%	6.7
uture Traffic Volume		131		Low	33.3	20%	6.7
lternative Transporta	ation Facilities	No facili	ties	Low	33.3	20%	6.7
				Total Mot	oility and Acc	essibility Score	33.3
		Visio	on Theme: Safety				
ategory		Resul	t	Rating	Points	Weight	Score
atal and Injury Crash	Rate	0.00		Low	33.3	50%	16.7
SI Locations		No PSI loca	ations	Low	33.3	50%	16.7
					Tot	al Safety Score	33.3
		Visior	n Theme: Economy				
Category		Resul	t	Rating	Points	Weight	Score
lacemaking		Doesn't include p	olacemaking	Low	33.3	25%	8.3
EDS Consistency		Doesn't supp	ort CEDS	Low	33.3	25%	8.3
urrounding Employm	nent Density	Low		Low	33.3	25%	8.3
reight Volume (%)		2		Medium	66.7	25%	16.7
					Total E	conomy Score	41.7
		Vision Them	e: Community and I	Nature			
Category		Resul	t	Rating	Points	Weight	Score
Cultural Resources		Little to no	impact	High	100	50%	50.0
invironmental Resour	rces	Moderate i	impact	Medium	66.7	50%	33.4
				Total Co	ommunity and	d Nature Score	83.4
		Vision Them	ne: Operational Effic	ciency			
Category		Resul	t	Rating	Points	Weight	Score
light-of-Way Sufficier	псу	Requires little o	or no ROW	High	100	33%	33.3
lan Coordination		One other	r plan	Medium	66.7	33%	22.2
Distribution of Benefit	S	Two loca		Medium	66.7	33%	22.2
						fficiency Score	77.8
			Vision Theme		Points	Woight	Score
			Mobility and Acces	sihility	33.3	Weight 20%	Score 6.7
			Safety		33.3	25%	8.3
	Total Benefit Score		Economy		33.3 41.7	25%	8.3
			Community and Na	aturo	-		
			community and No	ature	83.4	15%	12.5

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



Operational Efficiency

77.8

15%

Total Project Benefit Score

11.7

49.6

Project Number		75 Category Roadway F		Roadway Rec	construction	Project B	49.2	
Jurisdiction	Route Name	Route Fro		m	То		Length (mi)	
Bedford County	Hawkins Mill Rd	d 659 Old Farm			d (Rt 660)	Lynchbur	g Corp Limits	1.46
Proposed Improv	ement		Reconst	ruct 2 lane roadway		Est. Cost	\$25,0	00,000
			Benefit	Score Calculatio	n			
				Mobility and Acces				
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
- - - uture Traffic Volume			156		Medium	66.7	20%	13.3
Alternative Transporta	tion Facilities		No facili	ties	Low	33.3	20%	6.7
	don't denities		110 100		-		essibility Score	40.0
			Visio	n Thomas Cafatu	Total Mo	Sincy and Acce		1010
Category			Resul	n Theme: Safety	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		0.26		Low	33.3	50%	16.7
PSI Locations	Rale			tions	Low	33.3	50%	16.7
		No PSI locations			LOW			-
						Tota	al Safety Score	33.3
			Vision	Theme: Economy				
Category		Result			Rating	Points	Weight	Score
Placemaking			Doesn't include p	<u> </u>	Low	33.3	25%	8.3
	•		Doesn't suppo	ort 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 E	conomy Score	41.7
			Vision Theme	: Community and N	ature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
Environmental Resour	ces	Moderate impact			Medium	66.7	50%	33.4
					Total Co	ommunity and	d Nature Score	83.4
			Vision Them	e: Operational Effici	encv			
Category			Resul	-	Rating	Points	Weight	Score
Right-of-Way Sufficien	cv		Requires little o		High	100	33%	33.3
Plan Coordination	.,		•		Medium	66.7	33%	22.2
Distribution of Benefit					33.3	33%	11.1	
Distribution of Benefits	·		One loca	ility	Low			
					Iotal	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	40.0	20%	8.0
				Safety		33.3	25%	8.3
	Total Benefit Scor	е		Economy		41.7	25%	10.4
				Community and Na	ature	83.4	15%	12.5
				Operational Efficie	ncy	66.7	15%	10.0
							t Benefit Score	49.2

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



Project Number		77	Category	Roadway Red	construction	Project B	enefit Score	57.7
Jurisdiction	Route Name	Route Fro			om	То		Length (mi)
Amherst County	Izaak Walton Rd		663	Glade Rd	(Rt 130)	S Coolwe	ll Rd (Rt 604)	6.47
Proposed Improv	ement		Reconst	ruct 2 lane roadway	1	Est. Cost	\$29,74	40,000
			Benefit	Score Calculatio	on			
			Vision Theme	Mobility and Acces	ssibility			
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.18		Low	33.3	20%	6.7
uture Congestion			0.21		Low	33.3	20%	6.7
xisting Traffic Volum	2		239.6	7	Medium	66.7	20%	13.3
uture Traffic Volume	5		302		High	100	20%	20.0
Iternative Transporta	ation Facilities		No facilit	ies	Low	33.3	20%	6.7
	dion i denicies							53.3
				There are for for the		omry and Acc	essibility Score	53.5
				on Theme: Safety				
ategory			Result	:	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.74		Medium	66.7	50%	33.4
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Visior	Theme: Economy				
ategory			Result	t	Rating	Points	Weight	Score
lacemaking		0	oesn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
urrounding Employm	ent Density		Low		Low	33.3	25%	8.3
Freight Volume (%)				2 Medium			25%	16.7
						Total E	conomy Score	41.7
			Vision Them	e: Community and N	lature			
ategory			Result	1	Rating	Points	Weight	Score
ultural Resources			Little to no i	mpact	High	100	50%	50.0
nvironmental Resour	ces		Moderate i	•	Medium	66.7	50%	33.4
						mmunity and Nature Score		83.4
			Vicion Thom	e: Operational Effic		Similarity and		05.4
Category			Result		Rating	Points	Weight	Score
light-of-Way Sufficier	-CV		Requires little o		_	100	33%	33.3
lan Coordination	су 		Two or more		High			
				•	High	100	33%	33.3
Distribution of Benefit	S		One loca	шту	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	53.3	20%	10.7
				Safety		50.0	25%	12.5
		•			_			
	Total Benefit Sco	re		Economy		41.7	25%	10.4
	Total Benefit Sco	re		Economy Community and Na	ature	41.7 83.4	25% 15%	10.4 12.5
	Total Benefit Sco	re				-		
	Total Benefit Sco	re		Community and Na		83.4 77.8	15%	12.5

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



Project Number		78 Category		Roadway R	Roadway Reconstruction		Project Benefit Score		
Jurisdiction	Route Name				rom	То		Length (mi)	
Bedford County	Perrowville Rd				e Rd (Rt 1431)	Coffee R	d (Rt 644)	2.1	
Proposed Improv	ement		Reconst	ruct 2 lane roadwa	у	Est. Cost	\$17,44	10,000	
			Benefit	Score Calculat	ion				
				Mobility and Acco	-				
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 Volum	5		124		Low	33.3	20%	6.7	
Future Traffic Volume			198		Medium	66.7	20%	13.3	
Alternative Transporta	tion Facilities		No facilit	ies	Low	33.3	20%	6.7	
					Total Mol	bility and Acce	essibility Score	40.0	
			Visio	on 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 loca	tions	Low	33.3	50%	16.7	
						Tota	I Safety Score	50.0	
			Vision	Theme: Economy	1				
Category			Result		Rating	Points	Weight	Score	
Placemaking		D	oesn't include p	lacemaking	Low	33.3	25%	8.3	
CEDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3	
Surrounding Employm	ent Density		High		High	100	25%	25.0	
Freight Volume (%)			1		Low	33.3	25%	8.3	
						Total E	conomy Score	50.0	
			Vision Theme	e: Community and	Nature				
Category			Result	;	Rating	Points	Weight	Score	
Cultural Resources			Little to no i	mpact	High	100	50%	50.0	
Environmental Resour	ces		Moderate ir	npact	Medium	66.7 50%		33.4	
					Total Co	ommunity and	Nature Score	83.4	
			Vision Them	e: Operational Eff	-				
Category			Result		Rating	Points	Weight	Score	
Right-of-Way Sufficier	су		Requires little o		High	100	33%	33.3	
Plan Coordination			One other	plan	Medium	66.7	33%	22.2	
Distribution of Benefit	s		Two locali	ities	Medium	66.7	33%	22.2	
					Total	Operational Ef	ficiency Score	77.8	
				Vision Theme		Points	Weight	Score	
				Mobility and Acce	essibility	40.0	20%	8.0	
				Safety		50.0	25%	12.5	
	Total Benefit Scor	e		Economy		50.0	25%	12.5	
				Community and I	Nature	83.4	15%	12.5	
				Operational Effici	iency	77.8	15%	11.7	
							Benefit Score	57.2	

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



Project Number		79 Category		Roadway Capa	icity Expansion	Project B	68.4	
Jurisdiction	Route Name	Route From		То		Length (mi		
City of Lynchburg	Candlers Mtn Rd	501 Mayflower Dr (Rt 128)			Dr (Rt 128)		Highway (US 160)	3.63
Proposed Improv	vement		W	iden to 4 lanes		Est. Cost	\$20,0	40,000
				Score Calculation	-			
			Vision Theme:	Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.3		Low	33.3	20%	6.7
uture Congestion			0.33		Low	33.3	20%	6.7
Existing Traffic Volum			487.5		High	100	20%	20.0
uture Traffic Volume			549.5		High	100	20%	20.0
Iternative Transport	tation Facilities		Two or more	facilities	High	100	20%	20.0
					Total Mo	bility and Acce	essibility Score	73.3
			Visio	on Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	n Rate		0.93		Medium	66.7	50%	33.4
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Vision	Theme: Economy				
Category			Result	-	Rating	Points	Weight	Score
lacemaking		[Doesn't include p		Low	33.3	25%	8.3
EDS Consistency			Supports C	5	High	100	25%	25.0
urrounding Employr	nent Density		High		High	100	25%	25.0
reight Volume (%)			3		Medium	66.7	25%	16.7
						Total E	conomy Score	75.0
			Vision Theme	e: Community and I	Nature			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no i		High	100	50%	50.0
Environmental Resou	irces	Moderate impact			Medium	66.7	50%	33.4
							d Nature Score	83.4
						onninanity and		00.4
				e: Operational Effic				
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires signific		Low	33.3	33%	11.1
Plan Coordination			One other		Medium	66.7	33%	22.2
Distribution of Benefi	its	_	Three or more	localities	High	100	33%	33.3
					Total	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	73.3	20%	14.7
Total Benefit Score			Safety		50.0	25%	12.5	
			Economy		75.0	25%	18.8	
				Community and N	ature	83.4	15%	12.5
				Operational Efficie	ency	66.7	15%	10.0
						Total Project	t Benefit Score	68.4
Ben	efit Score		68.4					
Esti	mated Cost		\$20,040,000					

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



Project	Number	80	Category	Roadway Re	Category Roadway Reconstruction			47.5
Jurisdiction	Route Name		Route From		То		Length (mi)	
Amherst County	Winesap Rd	675			652	Rt	: 795	3.13
Proposed Improv	vement		Widen	pavement to 22 ft		Est. Cost	\$20.4	90,000
				•		231. 0031	<i>γ</i> 20,4	50,000
				Score Calculati Mobility and Acce				
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 Volum	e		43		Low	33.3	20%	6.7
Future Traffic Volume			48		Low	33.3	20%	6.7
Alternative Transport			No faciliti	es	Low	33.3	20%	6.7
					-		essibility Score	33.3
			Visio	n 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 locat	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	33.3
			Vision	Theme: Economy				
Category			Result	-	Rating	Points	Weight	Score
Placemaking		Do	Doesn't include placemaking		Low	33.3	25%	8.3
CEDS Consistency			Doesn't support CEDS		Low	33.3	25%	8.3
Surrounding Employn	nent Density		Low		Low	33.3	25%	8.3
Freight Volume (%)			1 Low		33.3	25%	8.3	
						Total E	conomy Score	33.3
			Vision Theme	: Community and	Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no ir	npact	High	100	50%	50.0
Environmental Resou	rces		Moderate in	npact	Medium	66.7	50%	33.4
				·	Total Co	ommunity and	l Nature Score	83.4
			Vision Them	e: Operational Effi	ciency			
Category			Result	-	Rating	Points	Weight	Score
Right-of-Way Sufficie	псу	R	equires little or	no ROW	High	100	33%	33.3
Plan Coordination			One other p		Medium	66.7	33%	22.2
Distribution of Benefi	ts		Two localit		Medium	66.7	33%	22.2
							fficiency Score	77.8
				Vision Theme		Points	Weight	Score
							-	
				Mobility and Acce	ssibility	33.3	20%	6.7
				· · ·	ssibility	33.3	20% 25%	6.7
	Total Benefit Sco	ē		Safety	ssibility	33.3	25%	8.3
	Total Benefit Sco	e		Safety Economy	•	33.3 33.3	25% 25%	8.3 8.3
	Total Benefit Sco	e		Safety	ature	33.3	25%	8.3

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



Project Number		81	Category	Roadway Rec	construction	Project B	50.3	
Jurisdiction	Route Name	Route From			m	То		Length (mi
Amherst County	Dixie Airport Rd	677 Amelon			l (Rt 699)	Galts Mil	l Rd (Rt 622)	1.54
Proposed Improv	ement		Reconst	ruct 2 lane roadway		Est. Cost	\$11,8	90,000
			Benefit	Score Calculatio	n			
			Vision Theme:	Mobility and Acces	sibility			
ategory			Result		Rating	Points	Weight	Score
xisting Congestion			0.29		Low	33.3	20%	6.7
uture Congestion			0.325	;	Low	33.3	20%	6.7
xisting Traffic Volume	e		373.5	;	High	100	20%	20.0
uture Traffic Volume			426.5	5	High	100	20%	20.0
Iternative Transporta	ation Facilities		No facili	ties	Low	33.3	20%	6.7
					Total Mol		essibility Score	60.0
			Visio	on Theme: Safety				
ategory			Resul	•	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.76		Medium	66.7	50%	33.4
SI Locations		No PSI locations			Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Vision	Theme: Economy				
ategory			Resul	-	Rating	Points	Weight	Score
lacemaking			oesn't include p	lacemaking	Low	33.3	25%	8.3
EDS Consistency		Doesn't suppo	ort CEDS	Low	33.3	25%	8.3	
urrounding Employm		Low		Low	33.3	25%	8.3	
reight Volume (%)			1		Low	33.3	25%	8.3
						Total E	conomy Score	33.3
			Vision Theme	e: Community and N	ature			
ategory			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Moderate i	oderate impact Me		66.7	50%	33.4
nvironmental Resour	ces	High impact			Low	33.3	50%	16.7
					Total Community and Nature Score			50.0
			Vision Them	e: Operational Effici	iencv			
Category			Resul	-	Rating	Points	Weight	Score
light-of-Way Sufficier	псу		Requires little o	or no ROW	High	100	33%	33.3
lan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	S			One locality		33.3	33%	11.1
					Low Total		fficiency Score	66.7
				Vision The		·		C
				Vision Theme Mobility and Acces	cibility :	Points	Weight	Score
				· · · · · · · · · · · · · · · · · · ·	ssibility	60.0	20%	12.0
				Safety		50.0 33.3	25% 25%	12.5
	Total Banafit Car							8.3
	Total Benefit Sco	re		-	atura			
	Total Benefit Sco	re		Community and N		50.0	15%	7.5
	Total Benefit Sco	re		-		50.0 66.7		

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



Project Number		83 Category	Roadway Capa	Roadway Capacity Expansion		Project Benefit Score		
Jurisdiction	Route Name	Route	Fro	om	То		Length (mi	
Campbell County	Leesville Rd	682	City of Lynchbu	urg corp limits		Highway (US 60)	2.96	
Proposed Improv	vement	W	/iden to 4 lanes		Est. Cost	\$29,0	00,000	
			Score Calculatio					
Category		Result	. Woblinty and Acces	Rating	Points	Weight	Score	
Existing Congestion		0.29	9	Low	33.3	20%	6.7	
Future Congestion		0.34	5	Low	33.3	20%	6.7	
xisting Traffic Volum	e	498	}	High	100	20%	20.0	
uture Traffic Volume		603.	5	High	100	20%	20.0	
Iternative Transport		No facil	-	Low	33.3	20%	6.7	
				-		essibility Score	60.0	
		Visi	on Theme: Safety					
Category		Resu	lt	Rating	Points	Weight	Score	
atal and Injury Crash	Rate	0.35	5	Low	33.3	50%	16.7	
SI Locations		PSI location	s present	Medium	66.7	50%	33.4	
					Tota	I Safety Score	50.0	
		Visio	n Theme: Economy					
ategory		Resu	lt	Rating	Points	Weight	Score	
lacemaking		Doesn't include	placemaking	Low	33.3	25%	8.3	
EDS Consistency		Could support CEDS		Medium	66.7	25%	16.7	
urrounding Employn	nent Density	High		High	100	25%	25.0	
reight Volume (%)		2		Medium	66.7	25%	16.7	
					Total E	conomy Score	66.7	
			e: Community and N					
Category		Resu		Rating	Points	Weight	Score	
Cultural Resources		Moderate		Medium	66.7	50%	33.4	
nvironmental Resou	rces	Moderate	impact	Medium	66.7	50%	33.4	
					ommunity and	Nature Score	66.7	
Category		Vision Then Resu	ne: Operational Effic	iency Rating	Points	Weight	Score	
light-of-Way Sufficier		Requires signi		Low	33.3	33%	11.1	
lan Coordination	,	One othe						
	to a		•	Medium	66.7	33%	22.2	
Distribution of Benefi	IS	One loc	ality	Low	33.3 Operational Ef	33% ficiency Score	11.1 44.4	
					-			
			Vision Theme	a a i la i li ta u	Points	Weight	Score	
			Mobility and Acce	ssibility	60.0	20%	12.0	
	Total Day - St. C.		Safety		50.0	25%	12.5	
	Total Benefit Score		Economy		66.7	25%	16.7	
			Community and N		66.7	15%	10.0	
			Operational Efficie	епсу	44.4	15% Benefit Score	6.7 57.8	
					- rotar Project	Benefit Score	57.0	

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



Project Number		84 Cat	egory	Roadway Re	Project B	69.5		
Jurisdiction	Route Name	Route From		om	То		Length (mi)	
Amherst County	Woody's Lake Rd	d 682 South An			: Highway (US 29 iness)	E	End	0.79
Proposed Improv	ement		Reco	onstruct roadway		Est. Cost	\$8,35	50,000
		E	Benefit	Score Calculat	ion			
		Visior	n Theme	: Mobility and Acc	essibility			
Category		Re	esult		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 Volum	e		259		Medium	66.7	20%	13.3
Future Traffic Volume			310		High	100	20%	20.0
Alternative Transport			One faci	lity	Medium	66.7	20%	13.3
							essibility Score	60.0
						bility and Acce	essibility score	00.0
			Visi	on Theme: Safety		_		
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		2.87		High	100	50%	50.0
PSI Locations		PSI lo	ocations	present	Medium	66.7	50%	33.4
						Tota	al Safety Score	83.4
			Visio	n Theme: Economy	v			
Category			Resul		Rating	Points	Weight	Score
Placemaking		Doesn't include placemakin			Low	33.3	25%	8.3
CEDS Consistency		Doesn't support CEDS			Low	33.3	25%	8.3
Surrounding Employm	ent Density	High		0.11 0220	High	100	25%	25.0
Freight Volume (%)		1			Low	33.3	25%	8.3
			-				conomy Score	50.0
		Visio	n Them	e: Community and	Nature	Total E	contoniny ocore	50.0
Category			Resul	-	Rating	Points	Weight	Score
Cultural Resources		Litt	Little to no impact		High	100	50%	50.0
Environmental Resour	rces		derate i		Medium	66.7	50%	33.4
				inpuer			d Nature Score	83.4
		Vici	on Ther	ne: Operational Eff		ommunity and	r Nature Score	03.4
Category		V 151	Resul		Rating	Points	Weight	Score
Right-of-Way Sufficier		Require		or no ROW	High	100	33%	33.3
Plan Coordination		· ·	o or mor					
				•	High	100	33%	33.3
Distribution of Benefit	S		One loca	IIIty	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	60.0	20%	12.0
				Safety		83.4	25%	20.8
	Total Benefit Score	9		Economy		50.0	25%	12.5
lotal Benefit Score			,			15%	12.5	
				Community and Nature				
				Operational Effici		83.4 77.8	15%	11.7

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



Project Number		85	85 Category Roadway Recons		construction	Project B	enefit Score	49.7
Jurisdiction	Route Name		Route	From		То		Length (mi
Amherst County	River Rd		685	NS Rai	ilroad	Rt	163	6.35
Proposed Improv	ement		Reconst	ruct 2 lane roadway	,	Est. Cost	\$24.8	30,000
				Score Calculatio			<i>+</i> = 1,00	
				Mobility and Acces				
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 Volum	<u>a</u>		138		Low	33.3	20%	6.7
Future Traffic Volume			184.5		Medium	66.7	20%	13.3
Alternative Transport			One faci		Medium	66.7	20%	13.3
alternative fransporta	ation racinties		One laci	iity			essibility Score	46.7
			Visia	Thomas Cafaba	Total Mo	onity and Acce	essibility score	40.7
Category			Visio	on Theme: Safety	Rating	Points	Weight	Score
0,	Data		0.49		5	33.3	50%	16.7
atal and Injury Crash	Rate				Low	33.3	50%	16.7
PSI Locations		_	No PSI loca	itions	Low			-
						lota	al Safety Score	33.3
				Theme: Economy		_		
Category		Resu		-	Rating	Points	Weight	Score
Placemaking		C	oesn't include p		Low	33.3	25%	8.3
CEDS Consistency		Doesn't support CEDS			Low	33.3	25%	8.3
Surrounding Employm	ent Density	Mediu		m	Medium	66.7	25%	16.7
Freight Volume (%)		_	1		Low	33.3	25%	8.3
						Total E	conomy Score	41.7
			Vision Theme	e: Community and N	lature			
Category			Result	t	Rating	Points	Weight	Score
Cultural Resources			Moderate i	mpact Medium		66.7	50%	33.4
Environmental Resour	ces		Moderate i	mpact	Medium 66.7 50%		33.4	
					Total Co	ommunity and	l Nature Score	66.7
			Vision Them	e: Operational Effic	iency			
Category			Result	t	Rating	Points	Weight	Score
Right-of-Way Sufficier	ю		Requires little o	r no ROW	High	100	33%	33.3
Plan Coordination			Two or more	e plans	High	100	33%	33.3
Distribution of Benefit	s		One loca	lity	Low	33.3	33%	11.1
							fficiency Score	77.8
				Vision Theme Mobility and Acces	ccibility	Points	Weight	Score
				Safety	ssibility	46.7	20%	9.3
	Total Downfit Com			,		33.3	25%	8.3
	Total Benefit Sco	e		Economy	atura	41.7	25%	10.4
				Community and N		66.7	15%	10.0
				Operational Efficie	ency	77.8	15% Benefit Score	11.7 49.7
						TotarProject	. Benefit Score	49.7

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



Project Number		86 Category Roadway Reconstr		onstruction Project Benefit Sco		53.0	
Route Name	Route From		То		Length (mi)		
River Rd	685	Rt 1	30	NS F	Railroad	3.84	
ement	Recons	truct 2 lane roadway		Est. Cost	\$31,1	60,000	
	Benefit	Score Calculatio	on				
	Result		Rating	Points	Weight	Score	
			Low	33.3	20%	6.7	
			-			6.7	
						6.7	
			-			6.7	
tion Facilities		ility				13.3	
tion racinties		incy.				40.0	
	Visi	on Theme: Safety			, i		
		-	Rating	Points	Weight	Score	
Rate	0.73		Medium	66.7	50%	33.4	
	No PSI loca	ations	Low	33.3	50%	16.7	
				Tot	al Safety Score	50.0	
	Visior	n Theme: Economy					
	Resul	t	Rating	Points	Weight	Score	
	Doesn't include p	olacemaking	Low	33.3	25%	8.3	
	Doesn't supp	ort CEDS	Low	33.3	25%	8.3	
ent Density	Low		Low	33.3	25%	8.3	
	1		Low	33.3	25%	8.3	
				Total E	conomy Score	33.3	
	Vision Them	e: Community and N	lature				
	Resul	t	Rating	Points	Weight	Score	
	Little to no	Little to no impact		100	50%	50.0	
ces	Moderate i	mpact	Medium	66.7	33.4		
			Total Co	ommunity and	d Nature Score	83.4	
	Vision Them	e: Operational Effici	iency				
	Resul	t	Rating	Points	Weight	Score	
су	Requires little o	or no ROW	High	100	33%	33.3	
	Two or mor	e plans	High	100	33%	33.3	
5	One loca	ality	Low	33.3	33%	11.1	
			Total	Operational E	fficiency Score	77.8	
		Vision Theme		Points	Weight	Score	
			sibility	40.0	20%	8.0	
		Safety	-	_		12.5	
Total Benefit Score	1	Economy		_		8.3	
		Community and Na	ature	83.4	15%	12.5	
					2370	-2.0	
		Operational Efficie	ncv	77.8	15%	11.7	
	River Rd ement 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 3 1 4 1 4 1 5	River Rd 685 ement Reconstruction Benefit Vision Theme Vision Theme 0.04 0.04 0.07 0.05 0.07 e 58 0.07 95 tion Facilities One facilities Vision Theme 0.07 Rate 0.73 No PSI loca 0.03 Rate 0.73 No PSI loca 0.05 Vision Resul Doesn't include g 0.06 Doesn't supp 1 ent Density Low 1 1 Vision Theme 1 Cy Requires little or Cy Requires little or	Number Number River Rd 685 Rt 1 Reconstruct 2 lane roadway Benefit Score Calculation Vision Theme: Mobility and Access Vision Theme: Mobility and Access Result 0.04 0.04 0.07 e S tion Facilities One facility Vision Theme: Safety Vision Theme: Safety Result Result Result Result Result Result Result Result Doesn't include placemaking Doesn't include placemaking Doesn't support CEDS ent Density Low Vision Theme: Community and No Result Community and Access Result Community and Access S Vision Theme: Operational Effic Community and Access Safety	River Rd 685 Rt 130 Benefit Score Calculation Vision Theme: Mobility and Accessibility Result Rating 0.04 Low 0.07 Low 2 58 1 0.07 2 58 1 0.07 1 Low 2 58 1 Cow 2 58 1 Cow 3 Medium Total Mol Vision Theme: Safety Vision Theme: Safety Result Rating Rate 0.73 Vision Theme: Economy Vision Theme: Community and Nature Vision Theme: Community and Nature Vision Theme: Community and Nature Vision Theme: Operational Efficiency Vision Theme: Operational Efficiency Vision Theme: Safety One locality One locality <td c<="" td=""><td>River Rd 685 Rt 130 NS F ement Reconstruct 2 lane roadway Est. Cost Benefit Score Calculation Vision Theme: Mobility and Accessibility Result Rating Points 0.04 Low 33.3 0.07 Low 33.3 1 0.07 Low 33.3 2 58 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 One facility Medium 66.7 Total Mobility and Accessibility Result Rating Points Result Rating Points Result Rating Points Total Mobility and Accessibility No PSI locations Low 33.3 Total Mobility Medium 66.7 Total Mobility and Accessibility Accessibility Total Mobility and Accessibility Result Rating Points Total Mobility and Accessibility</td><td>NormNormNormRiver Rd685Rt 130NS RailroadementReconstruct 2 lane roadwayEst. Cost\$31,1Benefit Score Calculation Vision Theme: Mobility and AccessibilityBenefit Score Calculation Vision Theme: Mobility and AccessibilityNormality and AccessibilityResultRatingPointsWeight (Normality)0.04Low33.320%0.07Low33.320%10.08Low33.320%total Mobility and AccessibilityStore CalculationTotal Mobility and Accessibility ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: Community and NatureOpenn't include placemaking LowLow33.325%Total Community and NatureVision Theme: Operational EfficiencyNo PSi IocalityLow33.325%Community and NatureColspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"C</td></td>	<td>River Rd 685 Rt 130 NS F ement Reconstruct 2 lane roadway Est. Cost Benefit Score Calculation Vision Theme: Mobility and Accessibility Result Rating Points 0.04 Low 33.3 0.07 Low 33.3 1 0.07 Low 33.3 2 58 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 One facility Medium 66.7 Total Mobility and Accessibility Result Rating Points Result Rating Points Result Rating Points Total Mobility and Accessibility No PSI locations Low 33.3 Total Mobility Medium 66.7 Total Mobility and Accessibility Accessibility Total Mobility and Accessibility Result Rating Points Total Mobility and Accessibility</td> <td>NormNormNormRiver Rd685Rt 130NS RailroadementReconstruct 2 lane roadwayEst. Cost\$31,1Benefit Score Calculation Vision Theme: Mobility and AccessibilityBenefit Score Calculation Vision Theme: Mobility and AccessibilityNormality and AccessibilityResultRatingPointsWeight (Normality)0.04Low33.320%0.07Low33.320%10.08Low33.320%total Mobility and AccessibilityStore CalculationTotal Mobility and Accessibility ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: Community and NatureOpenn't include placemaking LowLow33.325%Total Community and NatureVision Theme: Operational EfficiencyNo PSi IocalityLow33.325%Community and NatureColspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"C</td>	River Rd 685 Rt 130 NS F ement Reconstruct 2 lane roadway Est. Cost Benefit Score Calculation Vision Theme: Mobility and Accessibility Result Rating Points 0.04 Low 33.3 0.07 Low 33.3 1 0.07 Low 33.3 2 58 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 0.07 Low 33.3 3 One facility Medium 66.7 Total Mobility and Accessibility Result Rating Points Result Rating Points Result Rating Points Total Mobility and Accessibility No PSI locations Low 33.3 Total Mobility Medium 66.7 Total Mobility and Accessibility Accessibility Total Mobility and Accessibility Result Rating Points Total Mobility and Accessibility	NormNormNormRiver Rd685Rt 130NS RailroadementReconstruct 2 lane roadwayEst. Cost\$31,1Benefit Score Calculation Vision Theme: Mobility and AccessibilityBenefit Score Calculation Vision Theme: Mobility and AccessibilityNormality and AccessibilityResultRatingPointsWeight (Normality)0.04Low33.320%0.07Low33.320%10.08Low33.320%total Mobility and AccessibilityStore CalculationTotal Mobility and Accessibility ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: SafetyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: EconomyTotal Safety ScoreVision Theme: Community and NatureOpenn't include placemaking LowLow33.325%Total Community and NatureVision Theme: Operational EfficiencyNo PSi IocalityLow33.325%Community and NatureColspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2"Colspan="2"C

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



Project N	Number	87	Category	Roadway Re	econstruction	Project B	enefit Score	57.4
Jurisdiction	Route Name	Route From 726 Richmond Highway (US)			om	То		Length (mi)
Campbell County	Mt. Athos Rd				hway (US 460)	В	WXT	2.43
Proposed Improv	ement		Upgrad	e existing 2 lane roa	d	Est. Cost	\$15,7	80,000
			Benefit	t Score Calculati	on			
				: Mobility and Acce				
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.46		Low	33.3	20%	6.7
uture Congestion			0.58		Low	33.3	20%	6.7
xisting Traffic Volume	e		641		High	100	20%	20.0
uture Traffic Volume			801		High	100	20%	20.0
Iternative Transporta	tion Facilities		No facili	ties	Low	33.3	20%	6.7
					Total Mol	hility and Acc	essibility Score	60.0
			Vici	on Theme: Safety			continey score	0010
atagon			Resul	on Theme: Safety	Dating	Dointe	Moight	Seene
Category	Pata		0.17		Rating	Points 33.3	Weight 50%	Score 16.7
atal and Injury Crash	Kate		•		Low			
PSI Locations		No PSI locations			Low	33.3	50%	16.7
						Tota	al Safety Score	33.3
			Visio	n Theme: Economy				
Category			Resul	t	Rating	Points	Weight	Score
Placemaking		D	oesn't include p	olacemaking	Low	33.3	25%	8.3
EDS Consistency		Doesn't support CEDS			Low	33.3	25%	8.3
Surrounding Employm	ent Density		Mediu	m	Medium	66.7	25%	16.7
Freight Volume (%)			4		High	100	25%	25.0
						Total E	conomy Score	58.3
			Vision Them	e: Community and	Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources		Little to no impact			High	100	50%	50.0
invironmental Resour	ces	Moderate impact			Medium	66.7	50%	33.4
					Total Co	ommunity and	d Nature Score	83.4
			Vicion Thor	ne: Operational Effi				
Category			Resul		Rating	Points	Weight	Score
Right-of-Way Sufficien	CV.		Requires little o		High	100	33%	33.3
Plan Coordination	, cy		One other		Medium	66.7	33%	22.2
	c.			•		33.3		
Distribution of Benefits One locality				inty	Low		33% fficiency Score	11.1 66.7
					Total	Operational E	miclency Score	00.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
	Total Benefit Sco	re		Economy		58.3	25%	14.6
				Community and N	ature	83.4	15%	12.5
				Operational Efficie	ncy	66.7	15%	10.0
						Total Project	t Benefit Score	57.4
Bene	fit Score		57.4					

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



Project	t Number	88	Category	Roadway Red	construction	Project B	enefit Score	60.6
Jurisdiction	Route Name				om	То		Length (mi)
Campbell	English Tavern Rd				Rd (Rt 680)	Wards	Rd (US 29)	1.21
County								
Proposed Impro	ovement		V	Viden to 24 ft		Est. Cost	\$14,5	00,000
			Benefit	Score Calculation	on			
			Vision Theme	: Mobility and Acces	sibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.17		Low	33.3	20%	6.7
uture Congestion			0.16		Low	33.3	20%	6.7
existing Traffic Volur			217		Medium	66.7	20%	13.3
uture Traffic Volum	ie		223.33		Medium	66.7	20%	13.3
Alternative Transpor	tation Facilities		No facilit	ties	Low	33.3	20%	6.7
					Total Mo	bility and Acc	essibility Score	46.7
			Visio	on Theme: Safety				
Category			Result	t	Rating	Points	Weight	Score
atal and Injury Cras	h Rate		0.65		Medium	66.7	50%	33.4
SI Locations			PSI locations	present	Medium	66.7	50%	33.4
					Tot	al Safety Score	66.7	
			Visior	Theme: Economy				
Category			Result	-	Rating	Points	Weight	Score
Placemaking		0	oesn't include p	lacemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
Surrounding Employ	ment Density		High		High	100	25%	25.0
reight Volume (%)		2		Medium	66.7	25%	16.7	
						Total E	conomy Score	58.3
			Vision Theme	e: Community and N	lature			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no i		High	100	50%	50.0
Environmental Reso	urces		High imp	•	Low	33.3	50%	16.7
			0 1		Total C	ommunity an	d Nature Score	66.7
				0		Similarity and		00.7
Catogow.				e: Operational Effic		Points	Maight	Coore
Category Right-of-Way Sufficio	opov		Result Requires little o		Rating		Weight	Score
Plan Coordination			One other		High	100	33%	33.3
	fite				Medium	66.7	33%	22.2
Distribution of Bene	nts	_	One loca		Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	46.7	20%	9.3
				Safety		66.7	25%	16.7
	Total Benefit Sco	re		Economy		58.3	25%	14.6
				Community and Na	ature	66.7	15%	10.0
				Operational Efficie	ncy	66.7	15%	10.0
						Total Projec	t Benefit Score	60.6
Ber	nefit Score		60.6					

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



Project Number		89	Category	Roadway R	econstruction	Project Be	enefit Score	67.8
Jurisdiction	Route Name				rom	-	Го	Length (mi)
Campbell County	English Tavern Rd				Rd (US 29)	Suburban	Rd (Rt 680)	2.42
Proposed Impr	ovement			Widen to 24 ft		Est. Cost	\$11,63	30,000
			Benefi	t Score Calculat	ion			
				e: Mobility and Acc				
Category			Result		Rating	Points	Weight	Score
Existing Congestion	1		0.26		Low	33.3	20%	6.7
-uture Congestion			0.265	•	Low	33.3	20%	6.7
Existing Traffic Volu	ıme		336		High	100	20%	20.0
uture Traffic Volur			422		High	100	20%	20.0
Alternative Transpo	-		No facili	ties	Low	33.3	20%	6.7
					-	bility and Acce		60.0
			Visi	on Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
atal and Injury Cra	ish Rate		2.59		High	100	50%	50.0
PSI Locations			PSI locations	present	Medium	66.7	50%	33.4
						Total Safety Score		83.4
			Visio	n Theme: Economy	1			
Category			Resul	t	Rating	Points	Weight	Score
Placemaking		Doesn't include placemaking		olacemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo	ort CEDS	Low	33.3	25%	8.3
Surrounding Emplo	yment Density		High		High	100	25%	25.0
reight Volume (%)			1 Low			33.3	25%	8.3
	·					Total E	conomy Score	50.0
			Vision Them	e: Community and	Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Little to no i	impact	High	100	50%	50.0
Environmental Reso	ources		Moderate i	mpact	Medium	66.7	50%	33.4
					Total C	ommunity and	Nature Score	83.4
			Vision Ther	ne: Operational Eff	iciency			
Category			Resul	-	Rating	Points	Weight	Score
Right-of-Way Suffic	iency		Requires little o	or no ROW	High	100	33%	33.3
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Bene	efits		One loca	lity	Low	33.3	33%	11.1
					Total	Operational Ef	ficiency Score	66.7
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	60.0	20%	12.0
				Safety		83.4	25%	20.8
	Total Benefit Sco	re		Economy		50.0	25%	12.5
				Community and N	lature	83.4	15%	12.5
				oonnanney and i				
				Operational Effici		66.7	15%	10.0

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



Project Number		90 Category Roadway Reconstruct		econstruction	uction Project Benefit Score			
Jurisdiction	Route Name	Route From		То		Length (mi)		
Amherst County	Winridge Rd	795			130	Rt	675	0.8
Proposed Improv	/ement		Recons	truct 2 lane roadwa	ay .	Est. Cost	\$10,93	30,000
			Bonofit	Score Calculat	ion			
				: Mobility and Acco				
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 Volum	ρ		110		Low	33.3	20%	6.7
Future Traffic Volume			202		Medium	66.7	20%	13.3
			No facilit	ioc	Low	33.3	20%	6.7
Alternative Transport	ation Facilities		NO IACIIII	lies	-	bility and Acce		40.0
			Vici	an Thomas Cafata		Diffy and Acce	ssibility score	40.0
Category			Visio	on Theme: Safety	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		0.75		Medium	66.7	50%	33.4
	Nale			procont	Medium			33.4
PSI Locations		-	PSI locations present		Wedium	66.7 50%		66.7
						TOLa	I Safety Score	00.7
0 -1				n Theme: Economy		Delate	14/-1-1-1	6
Category		-	Result		Rating	Points 33.3	Weight 25%	Score
Placemaking		L	Doesn't include placemaking		Low	33.3	25%	8.3
CEDS Consistency	and Density		Doesn't support CEDS		Low			8.3
Surrounding Employn	nent Density		Low		Low	33.3 66.7	25% 25%	8.3
Freight Volume (%)		_	2	_	Medium			16.7
						Total E	conomy Score	41.7
				e: Community and		-		
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no i	•	High	100	50%	50.0
Environmental Resou	rces	_	High imp	act	Low	33.3	50%	16.7
					Total C	ommunity and	Nature Score	66.7
			Vision Them	ne: Operational Eff	iciency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires little o	r no ROW	High	100	33%	33.3
Plan Coordination			Two or more	e plans	High	100	33%	33.3
Distribution of Benefi	ts		Two local	ities	Medium	66.7	33%	22.2
					Total	Operational Ef	ficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	40.0	20%	8.0
				Safety		66.7	25%	16.7
	Total Benefit Scor	e		Economy		41.7	25%	10.4
				Community and N	Vature	66.7	15%	10.0
				Operational Effici	ency	88.9	15%	13.3

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



Project Number		91 Category		Roadway Capacity Expansion		Project Be	enefit Score	54.7
Jurisdiction	Route Name		Route From		1	Length (mi		
Bedford County	Thomas Jefferson R	Rd 811 Waterlick Rd (Rt 622)			d (Rt 622)	Great Oak	Rd (Rt 704)	3.61
Proposed Impro	ovement		Wid	en to 4 lanes		Est. Cost	\$56,93	10,000
				core Calculation				
Category			Result	nobility and Access	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 Volu	ne		412		High	100	20%	20.0
Future Traffic Volum	e		597.67		High	100	20%	20.0
Alternative Transpor	tation Facilities		Two or more fa	cilities	High	100	20%	20.0
					Total Mol	oility and Acce	ssibility Score	73.3
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cras	h Rate		0.47		Low	33.3	50%	16.7
PSI Locations		No PSI locations			Low	33.3	50%	16.7
						Tota	l Safety Score	33.3
			Vision T	heme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking			Doesn't include pla	cemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppor	t CEDS	Low	33.3	25%	8.3
Surrounding Employ	ment Density		Medium		Medium	66.7	25%	16.7
Freight Volume (%)			2		Medium	66.7	25%	16.7
						Total E	conomy Score	50.0
			Vision Theme:	Community and Na	ature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no im	pact	High	100	50%	50.0
Environmental Reso	urces		Moderate im	pact	Medium	66.7	50%	33.4
					Total Co	ommunity and	Nature Score	83.4
			Vision Theme:	Operational Efficie	ency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffici	ency		Requires significa		Low	33.3	33%	11.1
Plan Coordination			One other p		Medium	66.7	33%	22.2
Distribution of Bene	fits		One localit	СУ	Low	33.3	33%	11.1
					Total	Operational Ef	ficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	73.3	20%	14.7
				Safety		33.3	25%	8.3
	Total Benefit Sco	ore		Economy		50.0	25%	12.5
				Community and Na	ature	83.4	15%	12.5
				Operational Efficie	ncy	44.4	15%	6.7
						Total Project	Benefit Score	54.7

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



Projec	Project Number 92		Category Roadway Capacity Ex		acity Expansion	Project Be	enefit Score	60.5
Jurisdiction	Route Name		Route	From			То	Length (mi)
Bedford County	Thomas Jefferson Ro		811	Great Oak	Rd (Rt 704)	US	6 460	1.43
Proposed Impro	ovement		Wio	len to 4 lanes		Est. Cost	\$29,6	90,000
			Benefit S	Score Calculation	on			
			Vision Theme:	Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.26		Low	33.3	20%	6.7
uture Congestion			0.4		Low	33.3	20%	6.7
Existing Traffic Volu	ne		412		High	100	20%	20.0
uture Traffic Volum	ie		633		High	100	20%	20.0
Alternative Transport	rtation Facilities		Two or more f	acilities	High	100	20%	20.0
					Total Mol	bility and Acce	essibility Score	73.3
			Visio	n Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Cras	h Rate		0.70		Medium	66.7	50%	33.4
PSI Locations			PSI locations	oresent	Medium	66.7	50%	33.4
						Tota	al Safety Score	66.7
			Vision	Theme: Economy				
ategory			Result	Thene: Leonomy	Rating	Points	Weight	Score
lacemaking			Doesn't include placemaking		Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo		Low	33.3	25%	8.3
Surrounding Employ	ment Density		Mediun		Medium	66.7	25%	16.7
reight Volume (%)			2	2 Medium		66.7	25%	16.7
						Total E	conomy Score	50.0
			Vision Theme	Community and I	Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Moderate ir	npact	Medium	66.7	50%	33.4
invironmental Reso	urces		Moderate ir	•	Medium	66.7	50%	33.4
							Nature Score	66.7
		_	Vision Theme	: Operational Effic				
Category			Result	-	Rating	Points	Weight	Score
Right-of-Way Suffici	ency		Requires signific	ant ROW	Low	33.3	33%	11.1
Plan Coordination			One other		Medium	66.7	33%	22.2
Distribution of Bene	fits		One local		Low	33.3	33%	11.1
				,			fficiency Score	44.4
							inciency score	
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	73.3	20%	14.7
				Safety		66.7	25%	16.7
	Total Benefit Sco	е		Economy		50.0	25%	12.5
				Community and N		66.7	15%	10.0
			Operational Efficiency			44.4	15%	6.7
							Benefit Score	60.5

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



Proje	ect Number	93	Category	Intersection F	Reconstruction	Project B	enefit Score	59.7
Jurisdiction	Route Name		Route	Fr	om		То	Length (mi)
Bedford County	Thomas Jefferson F	۲d	811	Forest R	d (Rt 221)	Turkey Fo	ot Rd (Rt 623)	3.66
Proposed Imp	rovement	Int	ersection improv	vements and roadw	vay widening	Est. Cost	\$87,0	00,000
			Benefit	Score Calculati	on			
			Vision Theme	: Mobility and Acce	essibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestio	n		0.68		Low	33.3	20%	6.7
Future Congestion	ı		1.06		Medium	66.7	20%	13.3
Existing Traffic Vo	lume		626.33		High	100	20%	20.0
Future Traffic Volu	ume		950		High	100	20%	20.0
Alternative Transp	portation Facilities		Two or more f	acilities	High	100	20%	20.0
					Total Mob	ility and Acc	essibility Score	80.0
			Visio	on Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cr	rash Rate		0.55		Medium	66.7	50%	33.4
PSI Locations			No PSI locat	tions	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Visior	n Theme: Economy				
Category			Result	· · · · · ·	Rating	Points	Weight	Score
Placemaking		D	oesn't include pl	acemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't suppo	rt CEDS	Low	33.3	25%	8.3
Surrounding Empl	oyment Density		Low		Low	33.3	25%	8.3
Freight Volume (%			2		Medium	66.7	25%	16.7
						Total I	Economy Score	41.7
			Vision Theme	e: Community and	Nature			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources	S		Little to no ir	npact	High	100	50%	50.0
Environmental Res	sources		Moderate in	npact	Medium	66.7	50%	33.4
					Total Co	mmunity an	d Nature Score	83.4
			Vision Them	e: Operational Effi	ciency			
Category			Result	-	Rating	Points	Weight	Score
Right-of-Way Suffi	iciency		Requires signific	ant ROW	Low	33.3	33%	11.1
Plan Coordination	-		Two or more	plans	High	100	33%	33.3
Distribution of Ber			One local	•	Low	33.3	33%	11.1
				···,			fficiency Score	55.5
				•				
				Vision Theme		Points	Weight	Score
				Mobility and Acces	ssibility	80.0	20%	16.0
				Safety		50.0	25%	12.5
	Total Benefit Sco	ore		Economy		41.7	25%	10.4
				Community and N		83.4	15%	12.5
				Operational Efficie	ency	55.5	15%	8.3
						Total Projec	t Benefit Score	59.7
	Benefit Score		59.7	1				

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



Proje	ct Number	95	Category	Roadway	Reconstruction	Project B	enefit Score	81.3
Jurisdiction	Route Name		Route		From		То	Length (mi)
City of Lynchburg	Lynchburg Expwy		29/501	Candlers Mo	untain Rd (Rt 501)		-	
Proposed Impr	ovement	Ins	tall auxiliary lane	es and realign NB	entrance ramp	Est. Cost	\$18,8	00,000
			Benefit	Score Calcula	tion			
			Vision Theme	: Mobility and Ac	cessibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion	ı		0.5		Low	33.3	20%	6.7
Future Congestion			0.64		Low	33.3	20%	6.7
Existing Traffic Volu	ume		1212		High	100	20%	20.0
Future Traffic Volu			1509		High	100	20%	20.0
Alternative Transpo	ortation Facilities		One facil	itv	Medium	66.7	20%	13.3
p				-1		bility and Acc	essibility Score	66.7
			Visio	on Theme: Safety	,			
Category			Result		Rating	Points	Weight	Score
atal and Injury Cra	ash Rate		2.36		High	100	50%	50.0
PSI Locations			PSI locations	oresent	Medium	66.7	50%	33.4
						Tot	al Safety Score	83.4
			Visior	n Theme: Econom	ıy			
Category			Result		Rating	Points	Weight	Score
Placemaking		D	oesn't include pl	acemaking	Low	33.3	25%	8.3
CEDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
Surrounding Emplo	oyment Density		High		High	100	25%	25.0
Freight Volume (%))		8		High	100	25%	25.0
						Total I	Economy Score	75.0
			Vision Them	e: Community an	d Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no ir	mpact	High	100	50%	50.0
Environmental Res	ources		Little to no ir	mpact	High	100	50%	50.0
					Total C	ommunity an	d Nature Score	100.0
			Vision Them	ne: Operational El	fficiency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffic	ciency		Requires som	e ROW	Medium	66.7	33%	22.2
Plan Coordination			Two or more	plans	High	100	33%	33.3
Distribution of Ben	efits		Three or more	localities	High	100	33%	33.3
					Total	Operational E	fficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acc	cessibility	66.7	20%	13.3
				P				20.8
				Safety		83.4	25%	20.0
	Total Benefit Sco	ore		Safety Economy		83.4 75.0	25% 25%	18.8
	Total Benefit Sco	ore			Nature		25%	
	Total Benefit Sco	ore		Economy		75.0		18.8

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



Proj	ect Number	96	Category	Access Management and Safety	Project B	Benefit Score	80.6
Jurisdiction	Route Name		Route	From		То	Length (mi)
City of Lvnchburg	Candlers Mountain	Rd	501	Murray Pl		-	
Proposed Imp	provement		l intersection	ntersection and reroute traffic to the on Candlers Mountain Road at Murray ce/River Ridge Mall	Est. Cost	\$70),000

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	Two localities Medium		33%	22.2		
		Total C	perational I	Efficiency Score	66.7		
	Vision Theme		Points	Weight	Score		
	Mobility and Acc	occibility	00.0	200/	16.0		

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

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



Proje	ct Number	97	Category	Intersectio	n Reconstruction	Project B	enefit Score	66.6
Jurisdiction	Route Name		Route		From		То	Length (mi)
City of Lvnchburg	Lynchburg Expresswa	ssway 501		Carroll Avenue			-	
Proposed Impr	rovement		Extend nor	thbound accelera	ation lane	Est. Cost	\$5,25	60,000
				t Score Calcul e: Mobility and A				
Category			Result		Rating	Points	Weight	Score
Existing Congestior	n		0.5		Low	33.3	20%	6.7
Future Congestion			0.66		Low	33.3	20%	6.7
Existing Traffic Volu	ume		1180		High	100	20%	20.0
Future Traffic Volu	me		1562		High	100	20%	20.0
Alternative Transpo	Iternative Transportation Facilities		No facili	ties	Low	33.3	20%	6.7
					Total Mo	bility and Acce	essibility Score	60.0
			Vis	ion Theme: Safet	ty			
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Cra	ash Rate	3.62			High	100	50%	50.0
PSI Locations			No PSI loca	ations	Low	33.3	50%	16.7
						Tota	al Safety Score	66.7
			Vicio	on Theme: Econo	m)/			
Catagory			Resul		Rating	Points	Weight	Score
Category Placemaking		Do	esn't include p	-	Low	33.3	25%	8.3
CEDS Consistency		00	Could suppo		Medium	66.7	25%	16.7
Surrounding Emplo	ovment Density		Mediu		Medium	66.7	25%	16.7
Freight Volume (%)			2		Medium	66.7	25%	16.7
	,					Total F	conomy Score	58.4
			Vicion Thom	ne: Community a	nd Natura			
Category			Resul		Rating	Points	Weight	Score
Cultural Resources			Little to no	-	High	100	50%	50.0
Environmental Res			Little to no	•	High	100	50%	50.0
		_		puet	Total Community and Nature Score			100.0
			Vision The					10010
Catagon				me: Operational	-	Deinte	Maisht	Casua
Category	ciency	F	Resul equires little o		Rating	Points	Weight	Score
Right-of-Way Suffic		F	•		High	100	33%	33.3
Plan Coordination	ofite		No other		Low	33.3	33%	11.1
Distribution of Ben			One loca	шц	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	55.5
				Vision Theme		Points	Weight	Score
				Mobility and Ac	cessibility	60.0	20%	12.0
				Safety		66.7	25%	16.7
	Total Benefit Score	е		Economy		58.4	25%	14.6
				Community and	Nature	100.0	15%	15.0
				Operational Effi	ciency	55.5	15%	8.3
						Total Project	t Benefit Score	66.6

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



Project Number		98	Category	98 Category Roadway Capacity Ex		Project Benefit Score		62.4
Jurisdiction	Route Name		Route	From			Го	Length (mi)
City of Lynchburg	Lynchburg Expressw	ау	501	М	iller St	Kem	per St	
Proposed Improvement			Install so	uthbound auxiliary	/ lane	Est. Cost	\$9,70	0,000
				t Score Calcula e: Mobility and Ac				
Category			Result		Rating	Points	Weight	Score
Existing Congestior	1		0.4		Low	33.3	20%	6.7
Future Congestion			0.64		Low	33.3	20%	6.7
Existing Traffic Volu	ime		1068		High	100	20%	20.0
Future Traffic Volu	ne		1496		High	100	20%	20.0
Alternative Transpo	ortation Facilities		No facilit	ies	Low	33.3	20%	6.7
					Total Mo	bility and Acce	ssibility Score	60.0
			Vis	ion Theme: Safety	1			
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cra	ish Rate		0.51		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	I Safety Score	50.0
			Visio	on Theme: Econom	ıy			
Category			Result		Rating	Points	Weight	Score
Placemaking		Do	oesn't include p	lacemaking	Low	33.3	25%	8.3
CEDS Consistency			Could support CEDS		Medium	66.7	25%	16.7
Surrounding Emplo	yment Density		Mediur	n	Medium	66.7	25%	16.7
Freight Volume (%)		_	2		Medium	66.7	25%	16.7
						Total E	conomy Score	58.4
• ·				ne: Community an				
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no i	•	High	100	50% 50%	50.0 50.0
Environmental Res	burces	-	Little to no i	npact	High	LOU Community and		100.0
			Vision The	ne: Operational E		community and	Nature Score	100.0
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffic	iency		Requires little o		High	100	33%	33.3
Plan Coordination			No other p		Low	33.3	33%	11.1
Distribution of Ben	efits		One loca		Low	33.3	33%	11.1
						Operational Ef		55.5
				Vision Theme		Points	Weight	Score
				Mobility and Acce	ssibility	60.0	20%	12.0
				Safety	,	50.0	25%	12.5
	Total Benefit Sco	re		Economy		58.4	25%	14.6
		-		Community and N	lature	100.0	15%	15.0
				Operational Efficie	ency	55.5	15%	8.3

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



Project N	Number	102	Category	Nev	w Roadway	Project B	enefit Score	48.9
Jurisdiction	Route Name		Route		From		То	Length (mi)
Amherst County	New Road			S. Amherst H	lighway (US 29 Bus)	Fern	wood Dr	0.62
Proposed Improv	ement		New	2 lane connector	road	Est. Cost	\$7,22	0,000
			Benef	it Score Calcu	lation			
				ne: Mobility and				
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	9				Low	33.3	20%	6.7
Future Traffic Volume					Low	33.3	20%	6.7
Alternative Transporta	tion Facilities		Two or more	facilities	High	100	20%	20.0
					Total Mo	bility and Acc	essibility Score	46.6
			Vi	sion Theme: Safe	ty			
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate				Low	33.3	50%	16.7
PSI Locations			No PSI loca	ations	Low	33.3	50%	16.7
						Tot	al Safety Score	33.3
			Visi	on Theme: Econo	omy			
Category			Resul	t	Rating	Points	Weight	Score
Placemaking		Do	pesn't include p	lacemaking	Low	33.3	25%	8.3
CEDS Consistency			Doesn't supp	ort CEDS	Low	33.3	25%	8.3
Surrounding Employm	ent Density		Mediu	m	Medium	66.7	25%	16.7
Freight Volume (%)					Low	33.3	25%	8.3
						Total E	conomy Score	41.7
			Vision The	me: Community a	and Nature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Little to no	mpact	High	100	50%	50.0
Environmental Resour	ces		Moderate i	mpact	Medium	66.7	50%	33.4
					Total C	community and	d Nature Score	83.4
			Vision The	eme: Operational	Efficiency			
Category			Resul		Rating	Points	Weight	Score
Right-of-Way Sufficien	су		Requires son	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	S		One loca	lity	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	55.6
				Vision Theme		Points	Weight	Score
				Mobility and Acc	essibility	46.6	20%	9.3
				Safety		33.3	25%	8.3
	Total Benefit Sco	re		Economy		41.7	25%	10.4
				Community and	Nature	83.4	15%	12.5
				Operational Effic	iency	55.6	15%	8.3
						Total Project	t Benefit Score	48.9

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



Proj	Project Number 103		103 Category Multimodal Capacity Expansion		Project Benefit Score	61.8
Jurisdiction	Route Name		Route	From	То	Length (mi)
City of Lynchburg	Downtown Street	S	-	-	-	-
Proposed Improvement Implement downtown complete streets remaining blocks after Phases A. B & C				Est. Cost \$42,9	60,000	

Vision Theme: Mobility and Accessibil	ity
---------------------------------------	-----

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							

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						

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 C	perational	Efficiency Score	77.8

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

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



Project Number 104		Category Intersection Reconstruction		Project E	73.0				
Jurisdiction	Route Name		Route	From		From To		Length (mi)	
City of Lynchburg	Wards Ferry Rd		6070/368		ampus Dr		-		
roposed Imp	provement		Construct	Single Lane Rounda	about	Est. Cost	\$4,00	00,000	
			Benefit	Score Calculat	tion				
				: Mobility and Acc					
ategory			Result		Rating	Points	Weight	Score	
xisting Congesti			0.3		Low	33.3	20%	6.7 6.7	
uture Congestio xisting Traffic Vo			0.55		Low High	33.3 100	20% 20%	20.0	
uture Traffic Vo			932		High	100	20%	20.0	
	portation Facilities		Two or more	facilities	High	100	20%	20.0	
	portation racintics			Tuenties	<u> </u>		essibility Score	73.3	
						nity and Act	essibility score	73.5	
				on Theme: Safety	Detine	Delate	Mainht	Casara	
ategory	Crash Pato		2.95		Rating	Points 100	Weight 50%	Score 50.0	
atal and Injury C			No PSI loca	ations	High Low	33.3	50%	50.0 16.7	
		_	NU P31100		LOW			66.7	
						10	tal Safety Score	00.7	
				n Theme: Econom	,				
ategory			Resul	-	Rating	Points	Weight	Score	
lacemaking			Includes plac		High	100	25%	25.0	
EDS Consistency	,		Doesn't supp		Low	33.3	25%	8.3	
	oloyment Density		High High			100	25%	25.0	
reight Volume (%)	_	1	_	Low	33.3	25%	8.3	
						Total	Economy Score	66.7	
			Vision Them	e: Community and	l Nature				
ategory			Resul	t	Rating	Points	Weight	Score	
ultural Resource	es		Little to no	impact	High	100	50%	50.0	
nvironmental R	esources		Little to no	impact	High 1	100	100 50%	50.0	
					Total Co	mmunity an	d Nature Score	100.0	
			Vision Them	ne: Operational Ef	ficiency				
ategory			Resul	t	Rating	Points	Weight	Score	
ight-of-Way Suf	ficiency		Requires some ROW		Medium	66.7	33%	22.2	
lan Coordinatio	n		Two or mor	e plans	High	100	33%	33.3	
istribution of Be	enefits		One loca	ality	Low	33.3	33%	11.1	
					Total C	perational I	Efficiency Score	66.7	
						Deinte	Mainht	Coore	
				Vision Theme Mobility and Acco	assibility	Points 73.3	Weight 20%	Score 14.7	
				Safety	essibility	66.7	25%	14.7	
	Total Benefit Scor	ъ		Economy		66.7	25%	16.7	
		-		Community and I	Nature	100.0	15%	15.0	
				Operational Effici		66.7	15%	10.0	
					·		t Benefit Score	73.0	
				_					
	Benefit Score		73.0]					
Benefit-Cost	Estimated Cost		\$4,000,000						
Calculation	Estimated Users		17013						
	Benefit-Cost Score		310.44						

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



Project Number		105	Category	Intersection Re	econstruction	Project E	Benefit Score	60.3
Jurisdiction	Route Name	Route Fro		m	То		Length (mi)	
City of Lynchburg	Wards Ferry Rd	6070 A			a Ave		-	
Proposed Improv	ement			Add turn lanes		Est. Cost	\$570),000
				Score Calculati				
		\	ision Theme	: Mobility and Acce	ssibility			
Category			Result		Rating	Points	Weight	Score
xisting Congestion			0.3		Low	33.3	20%	6.7
uture Congestion			0.5	5	Low	33.3	20%	6.7
xisting Traffic Volum	e		575	5	High	100	20%	20.0
uture Traffic Volume			932	2	High	100	20%	20.0
Alternative Transporta	ation Facilities		No faci	lities	Low	33.3	20%	6.7
					Total Mol	bility and Acc	essibility Score	60.0
			Visi	on Theme: Safety				
Category			Resu	ılt	Rating	Points	Weight	Score
atal and Injury Crash	Rate		1.4	2	Medium	66.7	50%	33.4
SI Locations			No PSI lo	cations	Low	33.3	50%	16.7
						Tot	tal Safety Score	50.0
			Visio	n Theme: Economy				
ategory			Resu	ılt	Rating	Points	Weight	Score
lacemaking		Do	Doesn't include placemaking		Low	33.3	25%	8.3
EDS Consistency		Doesn't support CEDS		port CEDS	Low	33.3	25%	8.3
Surrounding Employm	ent Density	Hig		h	High	100	25%	25.0
reight Volume (%)			1		Low	33.3	25%	8.3
						Total	Economy Score	50.0
			Vision Them	e: Community and	Nature			
Category			Resu	ılt	Rating	Points	Weight	Score
Cultural Resources			Little to no	impact	High	100	50%	50.0
Environmental Resour	ces		Little to no	impact	High	100	50%	50.0
					Total Co	ommunity an	d Nature Score	100.0
			Vision Then	ne: Operational Effi	ciency			
Category			Resu	ılt	Rating	Points	Weight	Score
Right-of-Way Sufficier	су		Requires so	me ROW	Medium	66.7	33%	22.2
Plan Coordination			One othe	er plan	Medium	66.7	33%	22.2
Distribution of Benefit	s		One loo	•	Low	33.3	33%	11.1
							Efficiency Score	55.6
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety		50.0	25%	12.0
Total Benefit Score				Economy		50.0	25%	12.5
		•		Community and Na	ature	100.0	15%	12.5
						55.6	15%	8.3
				Operational Efficiency			15% t Benefit Score	60.3

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



Project Number 112		Category	New Ro	adway	Project B	57.2		
Jurisdiction	Route Name	e Route		Fro	m		Length (mi)	
City of Lvnchburg	James River Scenic Par	kway	-	Concord	d Tpke	Ma	ain St	2.7
Proposed Imp	orovement	sign and build th	ne James River Sceni	c Parkway	Est. Cost	\$48,2	00,000	
			Benefit	Score Calculatio	n			
			Vision Theme:	Mobility and Acces	sibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion	on		0.19		Low	33.3	20%	6.7
Future Congestio	n		0.22		Low	33.3	20%	6.7
Existing Traffic Vo	lume		238		Medium	66.7	20%	13.3
Future Traffic Vol	ume		271		Medium	66.7	20%	13.3
Alternative Trans	portation Facilities		No facilit	ies	Low	33.3	20%	6.7
					Total Mol	oility and Acce	essibility Score	46.7
			Visio	n Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury C	rash Rate		0.52		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Vision	Theme: Economy				
Category			Result	Result Rating		Points	Weight	Score
Placemaking			Includes place	making	High	100	25%	25.0
CEDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
Surrounding Emp	loyment Density		Low		Low	33.3	25%	8.3
۶) Freight Volume	6)		8		High	100	25%	25.0
						Total E	conomy Score	75.0
			Vision Theme	: Community and N	ature			
Category			Result		Rating	Points	Weight	Score
Cultural Resource	S		Little to no i	mpact High		100	50%	50.0
Environmental Re	sources		High imp	act	33.3	16.7		
					Total Co	ommunity and	Nature Score	66.7
			Vision Them	e: Operational Effici	-			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suff	iciency		Requires signific		Low	33.3	33%	11.1
Plan Coordinatior	1		One other	plan	Medium	66.7	33%	22.2
Distribution of Be	nefits		One loca	lity	Low	33.3	33%	11.1
					Total	Operational E	fficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	46.7	20%	9.3
				Safety		50.0	25%	12.5
	Total Benefit Sco	ore		Economy		75.0	25%	18.8
				Community and Na	ature	66.7	15%	10.0
				Operational Efficie	ncy	44.4	15%	6.7

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



Project Number		115	Category	Intersection Reconstruction	Project Benefit Score	64.1
Jurisdiction	Route Name		Route	From	То	Length (mi)
City of Lynchburg	Graves Mill Rd		6009	US 501 Southbound Ramp	-	
Proposed Improvement		Priority I I	Projects: additio	onal EB lane on Creekside, widen SB ramp	Est. Cost \$6,54	40,000

Vision Theme: Mobility and Accessibility

Category	itegory Result		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 Mobi	lity and Acc	essibility 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
			Tot	tal 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 Co	mmunity an	d Nature Score	100.0

	Vision Theme: Operational E	fficiency			
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 C	perational I	Efficiency Score	66.7

	Vision Theme	Points	Weight	Score
	Mobility and Accessibility	60.0	20%	12.0
Total Benefit Score	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 Score	64.1
Benefit-Cost	Estimated Cost	\$6,540,000
	Estimated Users	29729
Calculation	Benefit-Cost Score	291.31



Pro	ject Number	116	Category	Roadway Capacity Expansion	Project B	enefit Score	65.8
Jurisdiction	Route Name		Route	From		То	Length (mi)
Bedford County	Graves Mill Rd		6009	Gristmill Dr (Rt 1426)		-	
Proposed Im	provement	-	er, replace signa	valk, turn lanes, add lane, curb and al, ped features, overhead and rground utilities)	Est. Cost \$3,500,000		00,000

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
			Tot	tal Safety Score	66.7

	Vision Theme: Economy	1			
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 I	lature			
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 Co	mmunity an	d 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 Acces	sibility	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 Efficie	ncy	44.4	15%	6.7		
		Total Project Benefit Score			65.8			

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



Project Number		117 Category		Roadway Ree	construction	Project B	65.5	
Jurisdiction	Route Name		Route	Fro	om	То		Length (mi)
City of Lvnchburg	Graves Mill Rd	6009 Creeks		Creeks	side Dr		-	
Proposed Improv	vement		ie, ped features	ning & pedestrian ir s, modify signal, util vater, sidewalk, r/w	ity adjustments,	Est. Cost	\$1,60	0,000
			Benefit	Score Calculatio	on			
			Vision Theme:	Mobility and Acces	sibility			
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 Volum	e		782		High	100	20%	20.0
Future Traffic Volume	2		1485		High	100	20%	20.0
Alternative Transport	ation Facilities		One faci	lity	Medium	66.7	20%	13.3
					Total Mob	ility and Acc	essibility Score	73.3
			Visio	n Theme: Safety				
Category			Resul	t	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		0.88		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	ations	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Vision	Theme: Economy				
Category			Resul	t	Rating	Points	Weight	Score
Placemaking		C	Could include pl	acemaking	Medium	66.7	25%	16.7
CEDS Consistency			Could suppo	rt CEDS	Medium	66.7	25%	16.7
Surrounding Employn	nent Density	Medium		m	Medium	66.7	25%	16.7
Freight Volume (%)		3			Medium	66.7	25%	16.7
						Total I	Economy Score	66.7
			Vision Theme	: Community and N	lature			
Category			Resul	t	Rating	Points	Weight	Score
Cultural Resources			Little to no	impact	High	100	50%	50.0
Environmental Resou	rces		Little to no	impact	High	100	50%	50.0
					Total Co	mmunity an	d Nature Score	100.0
			Vision Them	e: Operational Effic	iency			
Category			Resul	t	Rating	Points	Weight	Score
Right-of-Way Sufficier	ncy		Requires son	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			No other p	olans	Low	33.3	33%	11.1
Distribution of Benefi	ts		One loca	ality	Low	33.3	33%	11.1
							fficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	73.3	20%	14.7
				Safety		50.0	25%	14.7
	Total Benefit Sco	re		Economy		66.7	25%	12.3
Total Bellent Score				Community and Na	ature	100.0	15%	15.0
				Operational Efficie		44.4	15%	6.7
							t Benefit Score	65.5
Bene	efit Score		65.5	1				
	mated Cost		\$1.600.000	1				

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



Project Number		118 Category Intersection R		Intersection Re	econstruction	Project Benefit Score		71.2
Jurisdiction	Route Name	Route From		m	То		Length (mi)	
City of Lynchburg	Graves Mill Rd	6009 McCo		McConv	ille Rd		-	
Proposed Improv	amont	Prio	rity Il Projects:	install single lane ro	oundahout	Est. Cost	\$4,00	0.000
Froposed improv	veinient	THO		5			Ş4,00	0,000
				Score Calculatic Mobility and Acces				
Catagory			Result	wobinty and Acces	•	Points	Weight	Score
Category			0.3		Rating Low	33.3	20%	6.7
Existing Congestion			0.3		Low	33.3	20%	6.7
Future Congestion Existing Traffic Volum	-		440			100	20%	20.0
			640		High			
Future Traffic Volume				•	High	100	20%	20.0
Alternative Transport	ation Facilities		No facilit	les	Low	33.3	20% essibility Score	6.7 60.0
			10-1-			plifty and Acce	ssibility score	00.0
Category			Visio	n Theme: Safety	Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		2.7		High	100	50%	50.0
PSI Locations	hate		No PSI loca	tions	Low	33.3	50%	16.7
			1101311000		2011		al Safety Score	66.7
			Vision	Theme: Economy		1010	a burety buore	
Category			Result	-	Rating	Points	Weight	Score
Placemaking			Includes place	emaking	High	100	25%	25.0
CEDS Consistency			Could suppor	5	Medium	66.7	25%	16.7
Surrounding Employn	nent Density	Medium			Medium	66.7	25%	16.7
Freight Volume (%)			4		High	100	25%	25.0
					8		conomy Score	83.4
			Vision Theme	: Community and N	lature		,	
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no i	mpact	High	100	50%	50.0
Environmental Resou	rces		Little to no i	mpact	High	100	50%	50.0
					Total Co	ommunity and	Nature Score	100.0
			Vision Theme	e: Operational Effic	iency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficie	псу		Requires som	ne ROW	Medium	66.7	33%	22.2
Plan Coordination			No other p	olans	Low	33.3	33%	11.1
Distribution of Benefi	ts		One loca	lity	Low	33.3	33%	11.1
					Total	Operational Ef	fficiency Score	44.4
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety		66.7	25%	16.7
	Total Benefit Scor	е		Economy		83.4	25%	20.8
				Community and Na	ature	100.0	15%	15.0
				Operational Efficie	ncy	44.4	15%	6.7

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



Project Number		119	Category	Intersectio	on Reconstruction	Project B	enefit Score	64.5
Jurisdiction	Route Name		Route		From	То		Length (mi)
City of	Graves Mill Rd	6009 Millrace Dr						
Lvnchburg Proposed Improv	ement		•		ess management (turn al modifications, ped	Est. Cost	\$1,70	0,000
				t Score Calcul e: Mobility and A				
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.5		Low	33.3	20%	6.7
-uture Congestion			0.78		Low	33.3	20%	6.7
Existing Traffic Volume	2		782		High	100	20%	20.0
Future Traffic Volume			1485		High	100	20%	20.0
Alternative Transporta	tion Facilities		No facilit	ies	Low	33.3	20%	6.7
					Total Mob	ility and Acce	essibility Score	60.0
			Vis	ion Theme: Safe	ty			
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Crash	Rate		0.54		Medium	66.7	50%	33.4
PSI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tota	al Safety Score	50.0
			Visio	n Theme: Econo	my			
Category			Result		Rating	Points	Weight	Score
Placemaking		Do	pesn't include p		Low	33.3	25%	8.3
CEDS Consistency			Could suppor	t CEDS	Medium	66.7	25%	16.7
Surrounding Employm	ent Density		High		High	100	25%	25.0
Freight Volume (%)			3		Medium	66.7	25%	16.7
						Total E	conomy Score	66.7
			Vision Them	ne: Community a	nd Nature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no ii		High	100	50%	50.0
Environmental Resour	ces	_	Little to no ii	mpact	High	100	50%	50.0
						mmunity and	d Nature Score	100.0
Category			Vision Ther Result	ne: Operational	Rating	Points	Weight	Score
Right-of-Way Sufficien	CV		Requires little o		High	100	33%	33.3
Plan Coordination	-1		No other p		Low	33.3	33%	11.1
Distribution of Benefit	c.		One local			33.3	33%	11.1
	J				Low Total O		33% fficiency Score	55.5
				Vision Theme Mobility and Acc	accibility.	Points	Weight	Score
				,	Lessibility	60.0	20%	12.0
	Total Benefit Sco	ro		Safety Economy		50.0	25%	12.5
	iotal Bellelit SCO	ie i		Community and	Nature	66.7 100.0	25% 15%	16.7 15.0
				Operational Effic		55.5	15% 15%	8.3
							15% Benefit Score	64.5
								01.0

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



Project Number		120 Category		Roadway Re	construction	Project B	70.5	
Jurisdiction	Route Name		Route	Fro	om	То		Length (mi
City of Lvnchburg	Graves Mill Rd	6009 Millra		ce Dr	Mill	side Dr		
Proposed Improv	vement	Priority I	I Projects: insta	all median, widenin path	g & add multiuse	Est. Cost	\$8,80	0,000
			Benefit	Score Calculati	on	1		
			Vision Theme	: Mobility and Acce	essibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.41	L	Low	33.3	20%	6.7
uture Congestion			0.78	3	Low	33.3	20%	6.7
xisting Traffic Volum	e		782		High	100	20%	20.0
uture Traffic Volume	9		1485	5	High	100	20%	20.0
Iternative Transport	ation Facilities		Two or more	facilities	High	100	20%	20.0
					Total Mob	ility and Acc	essibility Score	73.3
			Visi	on Theme: Safety				
ategory			Resu	-	Rating	Points	Weight	Score
atal and Injury Crash	Rate		0.54		Medium	66.7	50%	33.4
SI Locations			No PSI loc		Low	33.3	50%	16.7
Si Locations			110 1 01 100		2011		al Safety Score	50.0
				n Theme: Economy				
ategory			Resu		Rating	Points	Weight	Score
lacemaking		(Could include p	lacemaking	Medium	66.7	25%	16.7
EDS Consistency			Could suppo	ort CEDS	Medium	66.7	25%	16.7
Surrounding Employm	nent Density		Mediu	ım	Medium	66.7	25%	16.7
reight Volume (%)	eight Volume (%)		3		Medium	66.7	25%	16.7
						Total I	Economy Score	66.7
			Vision Them	e: Community and	Nature			
Category			Resu	lt	Rating	Points	Weight	Score
Cultural Resources			Little to no	impact	High	100	50%	50.0
Environmental Resou	rces		Little to no	Little to no impact High		100	50%	50.0
					-	mmunity an	d Nature Score	100.0
			Mala Theory					
				ne: Operational Effi				
Category			Resu		Rating	Points	Weight	Score
Right-of-Way Sufficier	ncy		Requires little		High	100	33%	33.3
lan Coordination			One othe	r plan	Medium	66.7	33%	22.2
Distribution of Benefit	ts		Two loca	lities	Medium	66.7	33%	22.2
					Total C	Operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acce	essibility	73.3	20%	14.7
				Safety		50.0	25%	12.5
	Total Benefit Sco	re		Economy		66.7	25%	16.7
				Community and N	lature	100.0	15%	15.0
				Operational Effici	ency	77.8	15%	11.7
						Total Projec	t Benefit Score	70.5
Bene	efit Score		70.5	1				

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



Project	Project Number 12		Category	Roadway Re	econstruction	Project B	Project Benefit Score		
Jurisdiction	Route Name		Route	Fre	om		То	Length (mi)	
City of Lvnchburg	Graves Mill Rd	501/6009 Us 50		Us 501 In	terchange		-		
Proposed Improv	vement	Priority		tall diverging diam e replacement	nond, includes	Est. Cost	\$30,4	00,000	
				core Calculati	on				
			Vision Theme: I	Mobility and Acce	essibility				
ategory			Result		Rating	Points	Weight	Score	
xisting Congestion		0.5			Low	33.3	20%	6.7	
uture Congestion			0.76		Low	33.3	20%	6.7	
xisting Traffic Volum	e		1297		High	100	20%	20.0	
uture Traffic Volume	2		1834		High	100	20%	20.0	
lternative Transport	ation Facilities		Two or more f	facilities	High	100	20%	20.0	
					Total Mot	ility and Acc	essibility Score	73.3	
			Vision	Theme: Safety					
ategory			Result		Rating	Points	Weight	Score	
atal and Injury Crash	n Rate		2.7		High	100	50%	50.0	
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7	
							al Safety Score	66.7	
			Vicion						
			Result	Theme: Economy	Deting	Points	Maight		
ategory					Rating		Weight 25%	Score	
lacemaking		D	oesn't include p		Low	33.3		8.3	
EDS Consistency	and Danatha		Could suppor		Medium	66.7	25%	16.7	
urrounding Employn	nent Density		Mediur 4	n	Medium	66.7	25%	16.7	
reight Volume (%)		_	4	_	High	100	25% Economy Score	25.0 66.7	
						TOtal I		00.7	
				Community and					
ategory			Result	:	Rating	Points	Weight	Score	
ultural Resources			Little to no i	mpact	High	100	50%	50.0	
nvironmental Resou	rces		Little to no i	mpact	High	100	50%	50.0	
					Total Co	mmunity an	d Nature Score	100.0	
			Vision Theme	: Operational Effi	ciency				
ategory			Result		Rating	Points	Weight	Score	
ight-of-Way Sufficie	ncy		Requires signific	cant ROW	Low	33.3	33%	11.1	
lan Coordination			No other p	lans	Low	33.3	33%	11.1	
Distribution of Benefi	ts		Two locali	ities	Medium	66.7	33%	22.2	
					Total C	Operational E	fficiency Score	44.4	
				Vision Theme		Points	Weight	Score	
				Mobility and Acc	essibility	73.3	20%	14.7	
				Safety		66.7	25%	16.7	
	Total Benefit Sco	ore		Economy		66.7	25%	16.7	
				Community and	Nature	100.0	15%	15.0	
				Operational Effic	tiency	44.4	15%	6.7	
						Total Projec	t Benefit Score	69.7	
Bene	efit Score		69.7						
F	nated Cost		\$30,400,000	1					

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



Project N	lumber	123 Category	adway	Project B	50.3		
Jurisdiction	Route Name	Route Fro		m	То		Length (mi
City of	McConville Rd	6073	Wynda	le Rd	Lakeside	Dr (Rt 221)	
Lvnchburg		Extend McConville R	to intersect Bt 221	at a signalized			
Proposed Improv	ement		intersection		Est. Cost	\$2,43	30,000
			Score Calculation				
		Vision Theme	e: Mobility and Acces	ssibility			
Category		Result		Rating	Points	Weight	Score
Existing Congestion		0.3		Low	33.3	20%	6.7
uture Congestion		0.4	Ļ	Low	33.3	20%	6.7
Existing Traffic Volume		440)	High	100	20%	20.0
uture Traffic Volume		640)	High	100	20%	20.0
Alternative Transporta	tion Facilities	No faci	lities	Low	33.3	20%	6.7
				Total Mol	oility and Acce	essibility Score	60.0
		Visi	on Theme: Safety				
Category		Resu	ılt	Rating	Points	Weight	Score
atal and Injury Crash	Rate	0.3	4	Low	33.3	50%	16.7
PSI Locations		No PSI lo	cations	Low	33.3	50%	16.7
					Tota	al Safety Score	33.3
		Visio	n Theme: Economy				
Category		Resu	ılt	Rating	Points	Weight	Score
Placemaking		Doesn't include	placemaking	Low	33.3	25%	8.3
CEDS Consistency		Doesn't sup	port CEDS	Low	33.3	25%	8.3
Surrounding Employm	ent Density	Low		Low	33.3	25%	8.3
reight Volume (%)		0		Low	33.3	25%	8.3
					Total E	conomy Score	33.3
		Vision Them	e: Community and N	Nature			
Category		Resu	ılt	Rating	Points	Weight	Score
Cultural Resources		Little to no	o impact	High	100	50%	50.0
Invironmental Resour	ces	Little to no	o impact	High	100	50%	50.0
				Total Co	ommunity and	l Nature Score	100.0
		Vision Then	ne: Operational Effic	iency			
Category		Resu	ılt	Rating	Points	Weight	Score
Right-of-Way Sufficien	су	Requires signi	ficant ROW	Low	33.3	33%	11.1
Plan Coordination		One othe	er plan	Medium	66.7	33%	22.2
Distribution of Benefits	5	One locality		Low	33.3	33%	11.1
				Total (Operational E	fficiency Score	44.4
			Vision Theme		Points	Weight	Score
			Mobility and Acces	ssibility	60.0	20%	12.0
			Safety	,	33.3	25%	8.3
Total Benefit Score		2	Economy		33.3	25%	8.3
		-	Community and N	ature	100.0	15%	15.0
			Operational Efficie	ency	44.4	15%	6.7

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



Jurisdiction City of Lvnchburg Proposed Imp	Route Name				gory Multimodal Capacity Expansion			
Lvnchburg			Route From 501 Fairview Ave		То		Length (mi	
Proposed Imp	Cambpell Ave				v Ave	Florida Ave		1.35
	Proposed Improvement Road					Est. Cost	\$2,16	60,000
			Bonofit	Score Calculatio	20			
				Mobility and Acces				
Category			Result		Rating	Points	Weight	Score
xisting Congestic	on		0.54		Low	33.3	20%	6.7
uture Congestior	n		0.68		Low	33.3	20%	6.7
xisting Traffic Vo	lume		915		High	100	20%	20.0
uture Traffic Volu			1130		High	100	20%	20.0
Iternative Transp	portation Facilities		Two or more	facilities	High	100	20%	20.0
					Total Mob	ility and Acc	essibility Score	73.3
			Visio	n Theme: Safety				
ategory			Result	t	Rating	Points	Weight	Score
atal and Injury C	rash Rate		1.26		Medium	66.7	50%	33.4
SI Locations			No PSI loca	tions	Low	33.3	50%	16.7
						Tot	al Safety Score	50.0
			Vision	Theme: Economy				
ategory	ory		Result	t	Rating	Points	Weight	Score
lacemaking			Includes place		High	100	25%	25.0
EDS Consistency			Could support	rt CEDS	Medium	66.7	25%	16.7
urrounding Empl		High			High	100	25%	25.0
reight Volume (%	6)	2			Medium	66.7	25%	16.7
						Total	Economy Score	83.4
			Vision Theme	: Community and N	lature			
Category			Result	t	Rating	Points	Weight	Score
Cultural Resource	S		Little to no i	mpact	High	100	50%	50.0
invironmental Re	sources		Little to no i	mpact	High	100	50%	50.0
					Total Co	mmunity an	d Nature Score	100.0
			Vision Theme	e: Operational Effic	iency			
Category			Result	t	Rating	Points	Weight	Score
Right-of-Way Suff	iciency		Requires little o	r no ROW	High	100	33%	33.3
lan Coordination	1		Two or more	e plans	High	100	33%	33.3
Distribution of Bei	nefits		Two local	ities	Medium	66.7	33%	22.2
					Total C)perational E	Efficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	73.3	20%	14.7
				Safety	1	50.0	25%	12.5
	Total Benefit Sco	re		Economy		83.4	25%	20.8
				Community and Na	ature	100.0	15%	15.0
				Operational Efficie		88.9	15%	13.3
						Total Projec	t Benefit Score	76.3
-	Benefit Score		76.3					
Renetit_Cost	Estimated Cost		\$2,160,000	1				
Calculation	Estimated Users		7813					
	Benefit-Cost Score	2	276.12					
				l				

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



Project Number 143		Category	Access Management and Safety		Project Benefit Score		71.7	
Jurisdiction	Route Name		Route Number	From		То		Length (mi)
Amherst County	South Amherst High	nway	29	Route	163	S Coolwell	Road (Rt 694)	4.31
Proposed Improvement Potential phased approach						Est. Cost	\$20,00	00,000
				core Calculation				
Category			Result		Rating	Points	Weight	Score
Existing Congestio	n		0.578		Low	33.3	20%	6.7
- uture Congestion	1		0.906		Medium	66.7	20%	13.3
xisting Traffic Vo	lume		1010.6		High	100	20%	20.0
uture Traffic Volu	ıme		1548		High	100	20%	20.0
Alternative Transp	oortation Facilities		No facilities	;	Low	33.3	20%	6.7
					Total Mob	ility and Acce	essibility Score	66.7
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Cr	ash Rate		0.78		Medium	66.7	50%	33.4
PSI Locations			Top 20 PSI location present		High	100	50%	50.0
						Tota	al Safety Score	83.4
			Vision T	heme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking			Doesn't include plac	•	Low	33.3	25%	8.3
CEDS Consistency			Could support CEDS		Medium	66.7	25%	16.7
Surrounding Empl	· ·		High		High	100	25%	25.0
Freight Volume (%		-	3		Medium	66.7	25%	16.7 66.7
			Vision Theme:	Community and Na	ature	TOLATE	conomy Score	00.7
Category			Result	contrainty and re	Rating	Points	Weight	Score
Cultural Resources	5		Moderate imp	act	Medium	66.7	50%	33.4
nvironmental Re	sources		High impac	t	Low	33.3	50%	16.7
					Total Co	mmunity and	d Nature Score	50.0
			Vision Theme:	Operational Efficie	ency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suff	iciency		Requires little or r	o ROW	High	100	33%	33.3
Plan Coordination			One other pla	an	Medium	66.7	33%	22.2
Distribution of Ber	nefits		Three or more lo	calities	High	100	33%	33.3
					Total C	perational E	fficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	66.7	20%	13.3
				Safety		83.4	25%	20.8
	Total Benefit S	core		Economy		66.7	25%	16.7
				Community and Na	ature	50.0	15%	7.5
				Operational Efficie	ncy	88.9	15%	13.3
							t Benefit Score	71.7

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



Project Number		144 Category Roadway Recons		onstruction Project Benefit Score		enefit Score	73.3	
Jurisdiction	Route Name	!	Route Number	lumber From		То		Length (mi
City of Lynchburg	Candlers Mountain	n Rd	128	Wards Rd	(US 29)	Semir	nole Ave	0.16
Proposed Imp	rovement	Access r		acquisition, road im n intersection leg	provements on	Est. Cost	\$10,0	00,000
			Benefit S	core Calculation	n			
			Vision Theme: I	Mobility and Access	ibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.46		Low	33.3	20%	6.7
Future Congestion			0.60		Low High	33.3 100	20% 20%	6.7 20.0
Existing Traffic Vol			910		High	100	20%	20.0
Alternative Transp			One facility	/	Medium	66.7	20%	13.3
		1					essibility Score	66.7
			Viei	Thomas Safata				50.7
Storony			Vision	Theme: Safety	Dating	Points	Maight	Score
Category Tatal and Injury Cr	ash Rate		1.05		Rating Medium	66.7	Weight 50%	33.4
PSI Locations		1.05 No PSI locations			Low	33.3	50%	16.7
Si Locations			No i si locatio	5113	LOW		al Safety Score	50.0
						1014	ar salety score	50.0
				Theme: Economy				-
Category			Result		Rating	Points	Weight	Score
Placemaking			Could include place	-	Medium Medium	66.7 66.7	25% 25%	16.7 16.7
EDS Consistency	avmont Donsity	Could support CEDS High			High	100	25%	25.0
reight Volume (%					High	100	25%	25.0
Teight Volume (70)		0		Ingn		conomy Score	83.4
			Main Theorem	6		TOLALE	conomy score	03.4
				Community and Na		Dutate	144-1-1-1	6
Category Cultural Resources			Result Little to no im	pact	Rating High	Points 100	Weight 50%	Score 50.0
Environmental Res			Little to no im	•	High	100	50%	50.0
	sources			pact	<u> </u>		Nature Score	100.0
			Vision Thoma	: Operational Efficie		and and	i Nature Score	100.0
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffi	ciency		Requires some	ROW	Medium	66.7	33%	22.2
Plan Coordination			Two or more p		High	100	33%	33.3
Distribution of Ber	efits		Two localitie		Medium	66.7	33%	22.2
	- · · •	1					fficiency Score	77.8
						sperational E		77.0
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	66.7	20%	13.3
	Total Daws fit			Safety		50.0	25%	12.5
	Total Benefit S	score		Economy	1	83.4	25%	20.8
				Community and Na Operational Efficient		100.0	15%	15.0
				Operational Efficier	ιcγ	77.8	15% Benefit Score	11.7 73.3
						Total Project	Dement Sture	/3.3

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



JurisdictionRoute NameRoute NumberFromToBedford CountyEast Lynchburg Salem Turnpike460Meade Rd-Proposed ImprovementRestricted Crossing U-TurnEst. Cost\$2,95Benefit Score Calculation Vision Theme: Mobility and AccessibilityCategoryResultRatingPointsWeightExisting Congestion0.28Low33.320%Future Congestion0.33Low33.320%Existing Traffic Volume611High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Vision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Vision Theme: EconomyVision Theme: EconomyCategoryResultRatingPointsWeightPacemakingDoesn't include placemakingLow33.325%CategoryResultRatingPointsWeightPacemakingDoesn't include placemakingLow33.325%CeIDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowJ.25%Freight Volume (%)9High10025%	Length (mi) - - - - - - - - - - - - -
Proposed Improvement Restricted Crossing U-Turn Est. Cost \$2,95 Benefit Score Calculation Vision Theme: Mobility and Accessibility Category Result Rating Points Weight Existing Congestion 0.28 Low 33.3 20% Future Congestion 0.33 Low 33.3 20% Existing Traffic Volume 611 High 100 20% Alternative Transportation Facilities No facilities Low 33.3 20% Usion Theme: Safety Category Result Rating Points Weight Fatal and Injury Crash Rate 0.35 Low 33.3 50% Total Mobility and Accessibility Score Vision Theme: Safety Total Safety Score Vision Theme: Economy Category Result Rating Points Weight Fatal and Injury Crash Rate 0.35 Low 33.3 50% Cotegory Res	Score 6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
Benefit Score Calculation Vision Theme: Mobility and Accessibility Category Result Rating Points Weight Existing Congestion 0.28 Low 33.3 20% Future Congestion 0.33 Low 33.3 20% Existing Traffic Volume 611 High 100 20% Future Traffic Volume 730 High 100 20% Alternative Transportation Facilities No facilities Low 33.3 20% Vision Theme: Safety Category Result Rating Points Weight Fatal and Injury Crash Rate 0.35 Low 33.3 50% PSI Locations Low 33.3 50% Vision Theme: Economy Category Result Rating Points Weight PSI Locations Low 33.3 50% Surget Safety Score Category Result Rating Points Weight <tr< td=""><td>Score 6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3</td></tr<>	Score 6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
Vision Theme: Mobility and AccessibilityCategoryResultRatingPointsWeightExisting Congestion0.28Low33.320%Future Congestion0.33Low33.320%Existing Traffic Volume611High10020%Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%OSNo PSI locationsLow33.350%Vision Theme: EconomyVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CategoryResultRatingPointsWeightPlacemakingLow33.325%CategoryResultRatingPointsWeightPlacemakingLow33.325%CategoryResultRatingPointsWeightPlacemakingLow33.325%CategoryResultRatingPointsWeightPlacemakingLow33.325%25%	6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
CategoryResultRatingPointsWeightExisting Congestion0.28Low33.320%Future Congestion0.33Low33.320%Existing Traffic Volume611High10020%Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%SoftyVision Theme: EconomyVision Theme: EconomyVision Theme: EconomyCategoryResultRatingPointsWeightPointsWeightFatal and Injury Crash Rate0.35Low33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CategoryCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
Existing Congestion0.28Low33.320%Future Congestion0.33Low33.320%Existing Traffic Volume611High10020%Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%SoftNo PSI locationsLow33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPSI LocationsLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%Centernation25%	6.7 6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
Future Congestion0.33Low33.320%Existing Traffic Volume611High10020%Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.325%CategoryResultRatingPointsWeightPOintsDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	6.7 20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3
Existing Traffic Volume611High10020%Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%SolveVision Theme: EconomyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%SolveSolveSolveVision Theme: EconomyCategoryResultRatingPointsWeightPointsUsion Theme: EconomyCategoryCategoryCategoryRatingPointsWeightPointsDoesn't include placemakingLow33.325%CategoryCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	20.0 20.0 6.7 60.0 Score 16.7 16.7 33.3 Score
Future Traffic Volume730High10020%Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPoints Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CategoryResultRatingPointsWeightPlacemakingLow33.325%CategoryCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	20.0 6.7 60.0 Score 16.7 16.7 33.3 Score
Alternative Transportation FacilitiesNo facilitiesLow33.320%Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	6.7 60.0 Score 16.7 16.7 33.3 Score
Total Mobility and Accessibility ScoreVision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	60.0 Score 16.7 16.7 33.3 Score
Vision Theme: SafetyCategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%33.350%Total Safety ScoreVision Theme: EconomyVision Theme: EconomyQategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	Score 16.7 16.7 33.3 Score
CategoryResultRatingPointsWeightFatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%So%Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	16.7 16.7 33.3 Score
Fatal and Injury Crash Rate0.35Low33.350%PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLow33.325%	16.7 16.7 33.3 Score
PSI LocationsLow33.350%Total Safety ScoreVision Theme: EconomyVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowJ.3.325%	16.7 33.3 Score
Total Safety ScoreVision Theme: EconomyCategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowJ.Ow33.325%	33.3 Score
Vision Theme: Economy Category Result Rating Points Weight Placemaking Doesn't include placemaking Low 33.3 25% CEDS Consistency Could support CEDS Medium 66.7 25% Surrounding Employment Density Low 33.3 25%	Score
CategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	
CategoryResultRatingPointsWeightPlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	
PlacemakingDoesn't include placemakingLow33.325%CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowJoan25%	
CEDS ConsistencyCould support CEDSMedium66.725%Surrounding Employment DensityLowLow33.325%	
Surrounding Employment Density Low 233.3 25%	16.7
	8.3
	25.0
Total Economy Score	58.3
Vision Theme: Community and Nature	0010
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
	100.0
Vision Theme: Operational Efficiency	6
Category Result Rating Points Weight Dight of Way Sufficiency Description arms POW Machine CC 7 200/	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
Vision Theme Points Weight	Score
Mobility and Accessibility 60.0 20%	12.0
Safety 33.3 25%	8.3
Total Benefit ScoreEconomy58.325%	14.6
Community and Nature 100.0 15%	15.0
Operational Efficiency 77.8 15%	11.7
Total Project Benefit Score	

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



Proje	Project Number		Category	Access Managem	ent and Safety	Project B	enefit Score	69.5
Jurisdiction	Route Name		Route Number	Fro	m		То	Length (mi)
Bedford County	East Lynchburg Salem	Turnpike 460 Meade Rd			e Rd		-	
Proposed Imp	provement		Thomas Jef	ferson Rd (Rt 811)		Est. Cost	\$6,55	60,000
			Benefit S	core Calculatio	n			
			Vision Theme: N	Mobility and Access	ibility			
Category	gory Result			Rating	Points	Weight	Score	
Existing Congestion	วท	0.52			Low	33.3	20%	6.7
Future Congestion			0.66		Low	33.3	20%	6.7
Existing Traffic Vo			798		High	100	20%	20.0
Future Traffic Vol	ume		1027		High	100	20%	20.0
Alternative Trans	portation Facilities		No facilities	S	Low	33.3	20%	6.7
					Total Mob	ility and Acc	essibility Score	60.0
			Vision	Theme: Safety				
Category			Result	-	Rating	Points	Weight	Score
Fatal and Injury C	rash Rate		0.69		Medium	66.7	50%	33.4
PSI Locations		PSI locations present			Medium	66.7	50%	33.4
						Tot	al Safety Score	66.7
			Vision 7	Ъ				
Catagon				heme: Economy	Detine	Deinte	Mainha	Coord
Category		Result Doesn't include placemaking			Rating	Points 33.3	Weight 25%	Score
Placemaking					Low Medium	33.3 66.7	25%	8.3 16.7
CEDS Consistency Surrounding Emp		Could support CEDS Medium			Medium	66.7	25%	16.7
Freight Volume (9	· ·		10		High	100	25%	25.0
	⁷⁰)	_	10		Tign			
						Total E	Economy Score	66.7
				Community and Na				
Category			Result		Rating	Points	Weight	Score
Cultural Resource	-	Moderate impact			Medium	66.7 100	50% 50%	33.4
Environmental Re	sources		Little to no imp	pact	High	50.0		
					Total Co	mmunity an	d Nature Score	83.4
			Vision Theme:	Operational Efficie	ency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suff	ficiency		Requires some	ROW	Medium	66.7	33%	22.2
Plan Coordination	1		One other pla	an	Medium	66.7	33%	22.2
Distribution of Be	nefits		Three or more lo	calities	High	100	33%	33.3
						perational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety	,	66.7	25%	16.7
	Total Benefit S	Score		Economy		66.7	25%	16.7
		-		Community and Na	ature	83.4	15%	12.5
				Operational Efficie		77.8	15%	11.7
							t Benefit Score	69.5

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



Projec	t Number	147	Category	Access Managem	nent and Safety	Project B	enefit Score	71.3
Jurisdiction	Route Name	e Route Number F			m		То	Length (mi)
Campbell County	Lynchburg Hwy	1	460	Turkey F	oot Rd		-	-
Proposed Impr	rovement	Media	n closure, construct	two median openir	ngs with loons	Est. Cost	\$6,18	8,000
			Benefit S	core Calculatio	n			
			Vision Theme: N	Nobility and Access	sibility			
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 Vol			1050		High	100	20%	20.0
Future Traffic Volu			1300		High	100	20%	20.0
Alternative Transp	ortation Facilities		No facilities	; 	Low	33.3	20%	6.7
					Total Mob	ility and Acc	essibility Score	66.7
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cra	ash Rate		1.42		Medium	66.7	50%	33.4
PSI Locations		No PSI locations			Low	33.3	50%	16.7
						Total Safety Score		
			Vision T	heme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking		Doesn't include placemaking			Low	33.3	25%	8.3
CEDS Consistency	Ŭ		Could support CEDS			66.7	25%	16.7
Surrounding Employment Density		High			Medium High	100	25%	25.0
Freight Volume (%			10			100	25%	25.0
0					High	Total I	Economy Score	75.0
			Vision Theme:	Community and Na	ature		,	
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no imp	High	100	50%	50.0	
Environmental Res			Little to no imp		High	100	50%	50.0
				Total Community and Nature Score				100.0
			Vision Them	Operational Eff		annanney ann	a natare score	200.0
Catagory				Operational Efficie	-	Points	M/aiakt	Seene
Category Right-of-Way Suffi	cioney		Result		Rating		Weight	Score
			Requires some		Medium	66.7	33%	22.2
Plan Coordination	-fite		One other pla		Medium	66.7	33%	22.2
Distribution of Ben			Three or more lo		High	100	33%	33.3
					Total C	operational E	fficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	66.7	20%	13.3
Total Benefit Score				Safety		50.0	25%	12.5
			Economy	75.0	25%	18.8		
	Total Benefit Score				75.0			
	Total Benefit S			Community and Na	ature	100.0	15%	15.0
	Total Benefit S			•		1		

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



Project Number		148	Category	Access Management and Safety		Project Benefit Score		68.7
Jurisdiction	Route Name		Route Number	Fro	m		То	Length (mi
Campbell County	Lynchburg Hwy		460	New Lon	New London Dr		-	-
Proposed Improv	vement		Restricted	Crossing U-Turn		Est. Cost	\$3,37	70,000
				core Calculatio				
C-4				Mobility and Access	•	Points	14/0:044	Casua
Category Existing Congestion			Result 0.68		Rating Low	33.3	Weight 20%	Score 6.7
-uture Congestion			0.85		Medium	66.7	20%	13.3
Existing Traffic Volum	ie		1050		High	100	20%	20.0
Future Traffic Volume			1300		High	100	20%	20.0
Alternative Transport	ation Facilities		No facilitie	5	Low	33.3	20%	6.7
					Total Mot	oility and Acce	essibility Score	66.7
			Vision	Theme: Safety				
Category			Result	memerourery	Rating	Points	Weight	Score
atal and Injury Crash	n Rate		0.36		Low	33.3	50%	16.7
PSI Locations			No PSI locatio	ons	Low	33.3	50%	16.7
							al Safety Score	33.3
			Miniar 1	Ъ				
`atagan.			Result	heme: Economy	Deting	Dointe	Moight	(aara
Category Placemaking			Doesn't include placemaking		Rating Low	Points 33.3	Weight 25%	Score 8.3
EDS Consistency		Could support CEDS			Medium	66.7	25%	16.7
Surrounding Employr	nent Density	High		2205	High	100	25%	25.0
reight Volume (%)	include b choicy		10		High	100	25%	25.0
					8	Total F	conomy Score	75.0
			Vision Thoma:	Community and Na	aturo	Total E	contentry score	, 510
Category			Result	Community and Na	Rating	Points	Weight	Score
Cultural Resources			Little to no im	nact	High	100	50%	50.0
Environmental Resou	rces		Little to no im		High	100	50%	50.0
							d Nature Score	100.0
			Vision Theme	Operational Efficie		initiality and		10010
Category			Result	•	Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires little or r	no ROW	High	100	33%	33.3
Plan Coordination			One other pl	an	Medium	66.7	33%	22.2
Distribution of Benefi	ts		Three or more lo	calities	High	100	33%	33.3
						Dpera <u>tional E</u>	fficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acces Safety	sibility	66.7	20%	13.3 8.3
	Total Benefit S	rore		Economy		33.3 75.0	25% 25%	8.3
	i otai benent 3	COLE		Community and Na	ature	100.0	15%	18.8
				Operational Efficien		88.9	15%	13.3
					·····		t Benefit Score	68.7

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



Jurisdiction				Access Management and Safety		Project Benefit Score		67.4
	Route Name		Route Number	Fro	m		То	
Campbell County	Richmond Highw	ау	460	Village	Hwy		-	-
Proposed Impr	ovement		Restricted	Crossing U-Turn		Est. Cost	\$6,29	90,000
				core Calculatio				
-				Nobility and Access				-
Category	-		Result		Rating	Points 33.3	Weight 20%	Score 6.7
Existing Congestior Future Congestion	1		0.32		Low	33.3	20%	6.7
Existing Traffic Volu	ume		709		High	100	20%	20.0
-uture Traffic Volu			741		High	100	20%	20.0
Alternative Transpo			No facilities	5	Low	33.3	20%	6.7
					Total Mot	oility and Acce	essibility Score	60.0
			Vision	Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Cra	ash Rate		0.12		Low	33.3	50%	16.7
PSI Locations			No PSI locatio	ons	Low	33.3	50%	16.7
						Tota	al Safety Score	33.3
			Vision T	heme: Economy				
Category			Result	,	Rating	Points	Weight	Score
Placemaking		Doesn't include placem		cemaking	Low	33.3	25%	8.3
CEDS Consistency		Could support CEDS		CEDS	Medium	66.7	25%	16.7
Surrounding Emplo	oyment Density	High			High	100	25%	25.0
Freight Volume (%))		7		High	100	25%	25.0
						Total E	conomy Score	75.0
			Vision Theme:	Community and Na	iture			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no imp	pact	High	100	50%	50.0
Environmental Res	ources		Little to no imp	pact	High	100	50%	50.0
					Total Co	ommunity and	Nature Score	100.0
			Vision Theme:	Operational Efficie	ency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Suffic	ciency		Requires little or r	io ROW	High	100	33%	33.3
Plan Coordination			One other pla	an	Medium	66.7	33%	22.2
Distribution of Ben	efits		Three or more lo	calities	High	100	33%	33.3
					Total (Operational E	fficiency Score	88.9
				Vision Theme		Points	Weight	Score
				Mobility and Acces	sibility	60.0	20%	12.0
				Safety		33.3	25%	8.3
	Total Benefit S	core		Economy		75.0	25%	18.8
				Community and Na	iture	100.0	15%	15.0
				Operational Efficie	ncy	88.9	15%	13.3
						Total Project	Benefit Score	67.4

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



Proj	Project Number		Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name		Route	From	То	Length (mi)
City of Lynchburg	Downtown Street	S	-	-	-	-
Proposed Improvement Impl			nt downtown co	omplete streets - Phase A, four blocks	Est. Cost \$5,00	00,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

Category	Result Rating Points We		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: Com	munity and Nature

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

Vision Theme: Operational Efficiency

vision meme. Operational Enclency							
Category	Result		Rating	Points	Weight	Score	
Right-of-Way Sufficiency	Requires little	or no ROW	High	100	33%	33.3	
Plan Coordination	Two or mor	e plans	High	100	33%	33.3	
Distribution of Benefits	One loca	ality	Low	33.3	33%	11.1	
			Total O	perational I	Efficiency Score	77.8	
		Vision Theme		Points	Weight	Score	
		Mobility and Accessibility		46.6	20%	9.3	
		Safety		50.0	25%	12.5	
Total Benefit Score		Economy		83.3	25%	20.8	
		Community and Na	ature	50.0	15%	7.5	
		Operational Efficie	ncy	77.8	15%	11.7	
				Total Projec	t Benefit Score	61.8	

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



Project Number		151	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name		Route	From	То	Length (mi)
City of Lynchburg	Downtown Street	S	-	-	_	-
Proposed Imp						00,000

Benefit Score Calculation

Vision Theme: Mobility and Accessibility

vision memer wooling and Accessionity						
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	Thome	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

vision meme. Operational Enciency								
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 C	perational I	Efficiency Score	77.8			
	Vision Theme		Points	Weight	Score			
	Mobility and A	ccessibility	46.6	20%	9.3			
	Safety		50.0	25%	12.5			
Total Benefit Score	Economy		83.3	25%	20.8			
	Community an	d Nature	50.0	15%	7.5			
	Operational Ef	ficiency	77.8	15%	11.7			
			Total Project	ct Benefit Score	61.8			

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



Project Number		152	Category	Multimodal Capacity Expansion	Project Benefit Score	61.8
Jurisdiction	Route Name		Route	From	То	Length (mi)
City of Lynchburg	Downtown Street	s	-	-	-	-
Proposed Imp						00,000

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						

Vision Theme: Operational Efficiency

	vision meme. Operation		icy			
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					
	Vision The	me		Points	Weight	Score
	Mobility a	Mobility and Accessibility		46.6	20%	9.3
	Safety	Safety		50.0	25%	12.5
Total Benefit Score	e Economy	Economy		83.3	25%	20.8
	Communit	y and Natu	re	50.0	15%	7.5
	Operation	al Efficiency		77.8	15%	11.7
				Total Projec	t Benefit Score	61.8

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



Project Number		155	Category	Access Management and Safety		Project Be	enefit Score	76.8
Jurisdiction	Route Name		Route From		То		Length (mi	
Campbell County	Wards Rd		29 City of Lynchburg corp lim			Lofty	1.6	
Proposed Improvement Access			anagement and	Intersection Impro 1-3	ovements Segments	Est. Cost	\$12,54	47,301
			Benefit	Score Calculat	tion			
			Vision Theme	: Mobility and Acc	essibility			
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 Volum			896		High	100	20%	20.0
Future Traffic Volume			1213		High	100	20%	20.0
Alternative Transport	ation Facilities		Two or more	facilities	High	100	20%	20.0
					Total Mob	ility and Acce	ssibility Score	73.3
Cata com.				on Theme: Safety	Dating	Deinte	Maight	5 0040
Category	Pata		Result 0.35		Rating Low	Points 33.3	Weight 50%	Score 16.7
Fatal and Injury Crash	Kale		PSI locations	nrecent	Medium	66.7	50%	33.4
'SI Locations			P SI IOCATIONS	present	Weddulli			50.0
			Mision	Th		TOLA	l Safety Score	50.0
Category			Result	Theme: Econom	Rating	Points	Weight	Score
Placemaking			Could include pla		Medium	66.7	25%	16.7
CEDS Consistency			Supports CEDS		High	100	25%	25.0
Surrounding Employm	nent Density		High		High	100	25%	25.0
Freight Volume (%)	•		7		High	100	25%	25.0
					-	Total Ed	conomy Score	91.7
			Vision Them	e: Community and	Nature			
Category			Result	· ·	Rating	Points	Weight	Score
Cultural Resources			Little to no i	no impact High		100	50%	50.0
Environmental Resou	rces		Little to no i	o no impact High		100	50%	50.0
					Total Co	mmunity and	Nature Score	100.0
			Vision Them	e: Operational Eff	ficiency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficier	псу		Requires som	e ROW	Medium	66.7	33%	22.2
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Benefit	ts		Three or more	localities	High	100	33%	33.3
					Total C	Operational Ef	ficiency Score	77.8
				Vision Theme		Points	Weight	Score
				Mobility and Acc	essibility	73.3	20%	14.7
				Safety		50.0	25%	12.5
	Total Benefit Sc	ore		Economy		91.7	25%	22.9
				Community and		100.0	15%	15.0
				Operational Effic	iency	77.8	15%	11.7
						Total Project	Benefit Score	76.8

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



Project Number		156	Category	Access Managen	nent and Safety	Project Be	enefit Score	70.5
Jurisdiction	Route Name		Route	Fro	m	То		Length (mi
Campbell County	Wards Rd		29 Lofty View Ln			Patterson Rd		2.6
Proposed Impro	ovement	Access M	anagement and	Intersection Improve 4-6	ements Segments	Est. Cost	\$13,7	99,831
			Benefit	Score Calculatio	on			
			Vision Theme:	Mobility and Acces	sibility			
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 Volur			658		High	100	20%	20.0
Future Traffic Volum			765		High	100	20%	20.0
Alternative Transpor	tation Facilities		Two or more f	acilities	High	100	20%	20.0
					Total Mob	ility and Acce	ssibility Score	73.3
			Visio	on Theme: Safety				
Category			Result		Rating	Points	Weight	Score
Fatal and Injury Cras	h Rate		0.24		Low	33.3	50%	16.7
PSI Locations			No PSI locat	tions	Low	33.3	50%	16.7
						Tota	I Safety Score	33.3
			Vision	Theme: Economy				
Category		Result			Rating	Points	Weight	Score
Placemaking		Could include placemakin		acemaking	Medium	66.7	25%	16.7
CEDS Consistency		Supports CEDS			High	100	25%	25.0
Surrounding Employ	ment Density	Medium		n	Medium	66.7	25%	16.7
Freight Volume (%)		7		High	100	25%	25.0	
						Total E	conomy Score	83.4
			Vision Theme	e: Community and N	lature			
Category			Result		Rating	Points	Weight	Score
Cultural Resources			Little to no ir	impact High		100	50%	50.0
Environmental Reso	urces		Little to no ir	mpact	High	100	50%	50.0
					Total Co	mmunity and	Nature Score	100.0
			Vision Them	e: Operational Effic	iency			
Category			Result		Rating	Points	Weight	Score
Right-of-Way Sufficio	ency		Requires som	e ROW	Medium	66.7	33%	22.2
Plan Coordination			One other	plan	Medium	66.7	33%	22.2
Distribution of Bene	fits		Three or more	localities	High	100	33%	33.3
					Total C	Operational Ef	ficiency Score	77.8
				Vision Thoma		Dointo	Maight	Secto
				Vision Theme Mobility and Acces	sihility	Points 73.3	Weight 20%	Score 14.7
				Mobility and Accessibility Safety		33.3	25%	8.3
	Total Benefit Sc	ore		Economy		83.4	25%	20.8
				Community and Na	ature	100.0	15%	15.0
				Operational Efficient		77.8	15%	11.7

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



Project	Number	157	Category	Access Managen	nent and Safety	Project Be	enefit Score	67.8
Jurisdiction	Route Name		Route	Fro	m	То		Length (mi
Campbell County	Wards Rd		29	Patters	Dennis Riddle Dr		2.3	
Proposed Impro	vement	Access M	anagement and I	Intersection Improv 7-8	ements Segments	Est. Cost	\$11,8	82,000
			Benefit	Score Calculatio	on			
			Vision Theme:	Mobility and Acces	sibility			
Category			Result		Rating	Points	Weight	Score
Existing Congestion			0.3		Low	33.3	20%	6.7
uture Congestion			0.35		Low	33.3	20%	6.7
xisting Traffic Volum			658		High	100	20%	20.0
Future Traffic Volume			765		High	100	20%	20.0
Alternative Transport	tation Facilities		No faciliti	es	Low	33.3	20%	6.7
					Total Mot	oility and Acce	ssibility Score	60.0
			Visio	n Theme: Safety				
Category			Result		Rating	Points	Weight	Score
atal and Injury Crash	n Rate		0.25		Low	33.3	50%	16.7
SI Locations			No PSI locat	tions	Low	33.3	50%	16.7
						Tota	I Safety Score	33.3
			Vision	Theme: Economy				
Category			Result		Rating	Points	Weight	Score
Placemaking		Could include place		cemaking	Medium	66.7	25%	16.7
CEDS Consistency		Supports CEDS		EDS	High	100	25%	25.0
Surrounding Employr	nent Density	Medium		า	Medium	66.7	25%	16.7
Freight Volume (%)			7	7 High		100	25%	25.0
						Total E	conomy Score	83.4
			Vision Theme	: Community and N	lature			
Category			Result	-	Rating	Points	Weight	Score
Cultural Resources			Little to no ir	mpact High		100	50%	50.0
Environmental Resou	irces		Little to no ir	npact High		100	50%	50.0
					Total Co	mmunity and	Nature Score	100.0
			Vision Them	e: Operational Effic	iency			
Category			Result	-	Rating	Points	Weight	Score
Right-of-Way Sufficie	ncy		Requires som		Medium	66.7	33%	22.2
Plan Coordination	,		One other		Medium	66.7	33%	22.2
Distribution of Benefi	its		Three or more		High	100	33%	33.3
							ficiency Score	77.8
				1.11.1.1.1.T.			144.2.1.	-
				Vision Theme Mobility and Acces	cibility	Points	Weight	Score
				Safety	SIJIIILY	60.0	20%	12.0 8.3
	Total Benefit Sc	ore		•		33.3 83.4	25% 25%	20.8
	Total Bellent SC	JIE		Economy Community and Nature		83.4	25% 15%	20.8
				Operational Efficient		77.8	15%	15.0
							15% Benefit Score	67.8
						otal - roject	Senem Scole	57.0

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

