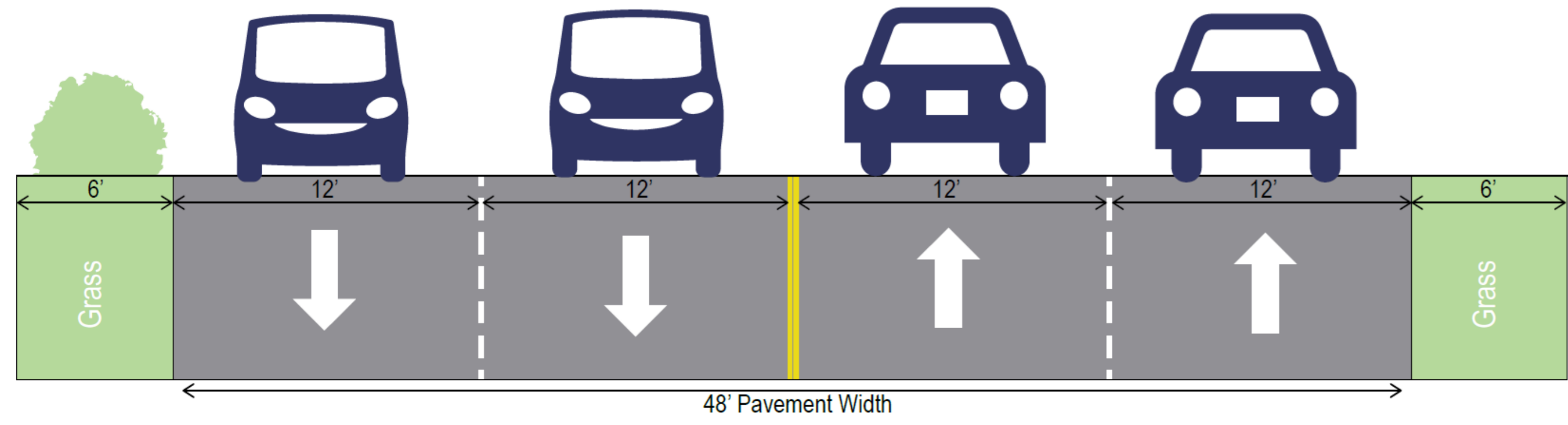


APPENDIX Q

Conceptual Alternatives



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

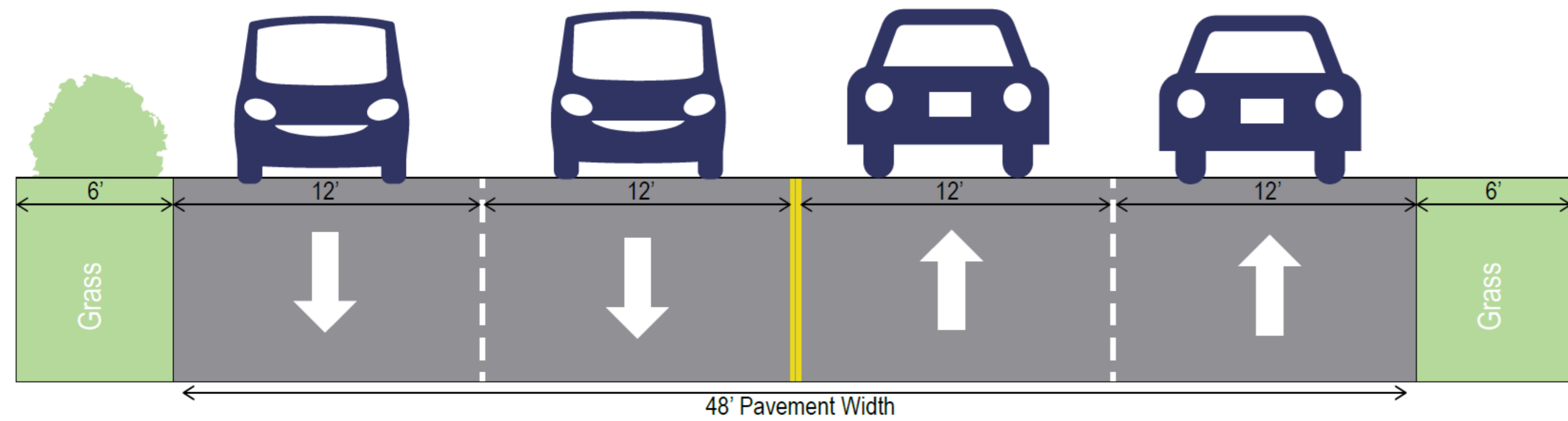
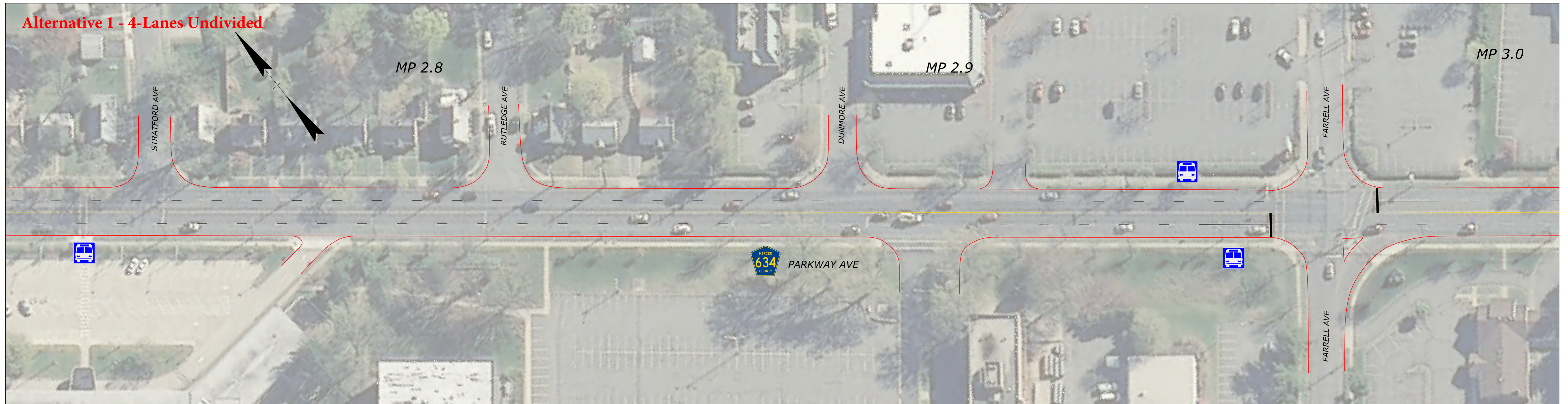
C-1
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
	<p>August 2017</p> <p>Michael Baker INTERNATIONAL</p>



Alternative 1 - 4-Lanes Undivided



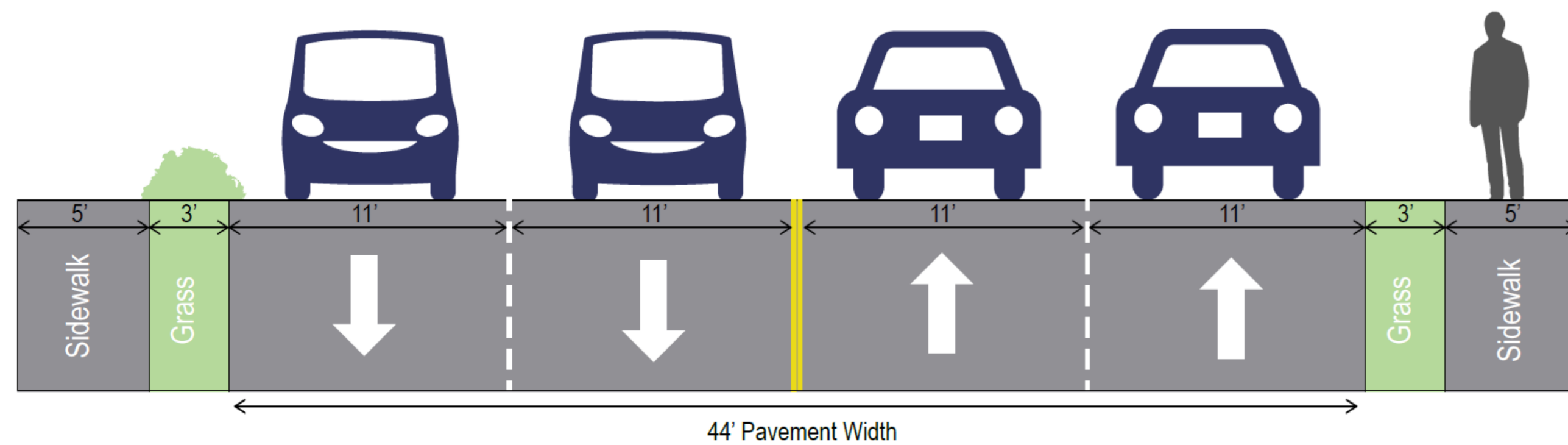
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-2
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
	August 2017 

Alternative 1 - 4-Lanes Undivided



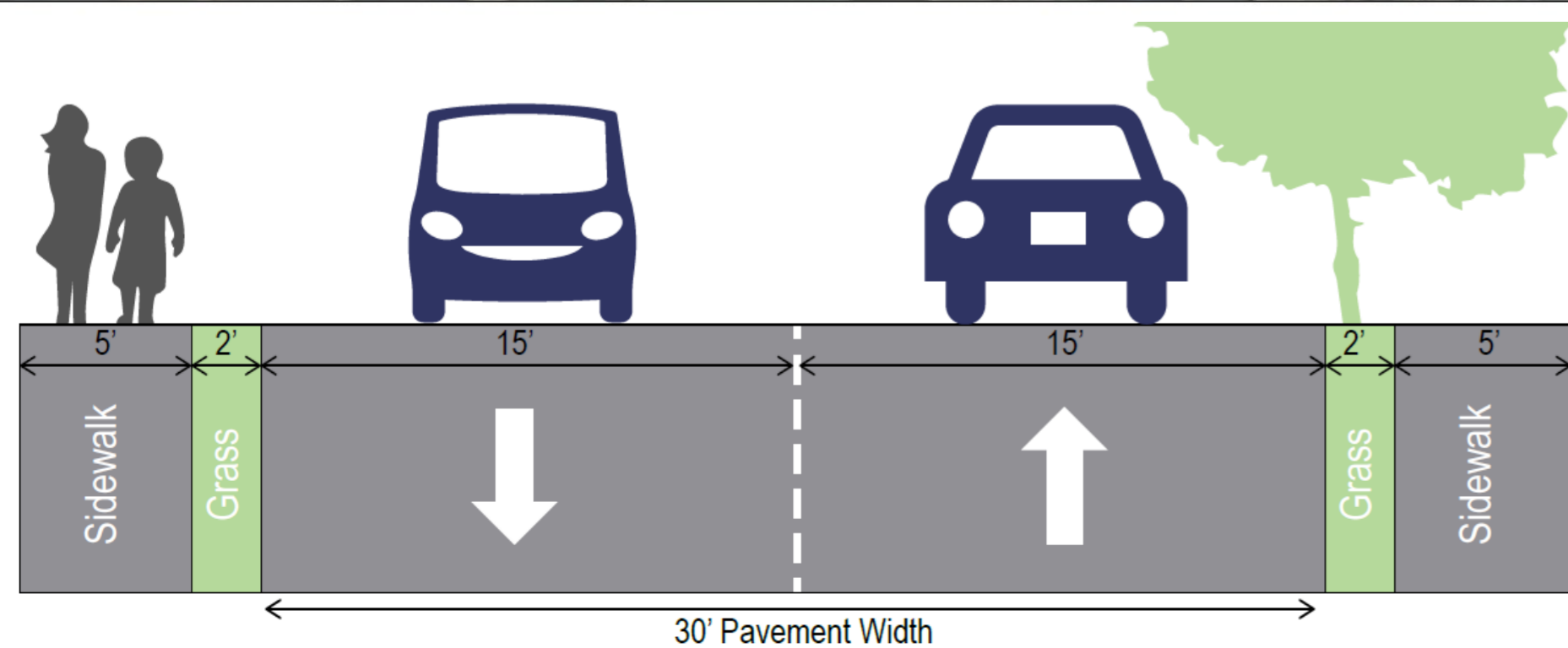
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-3
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.28 To MP 3.82
	August 2017 Michael Baker INTERNATIONAL

Alternative 1 - 4-Lanes Undivided

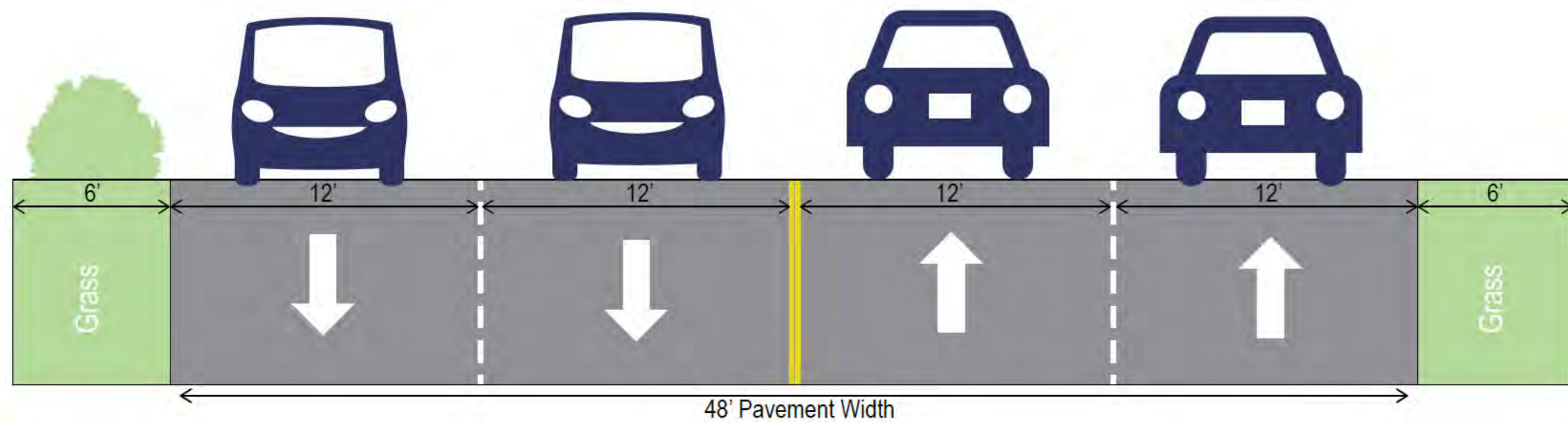
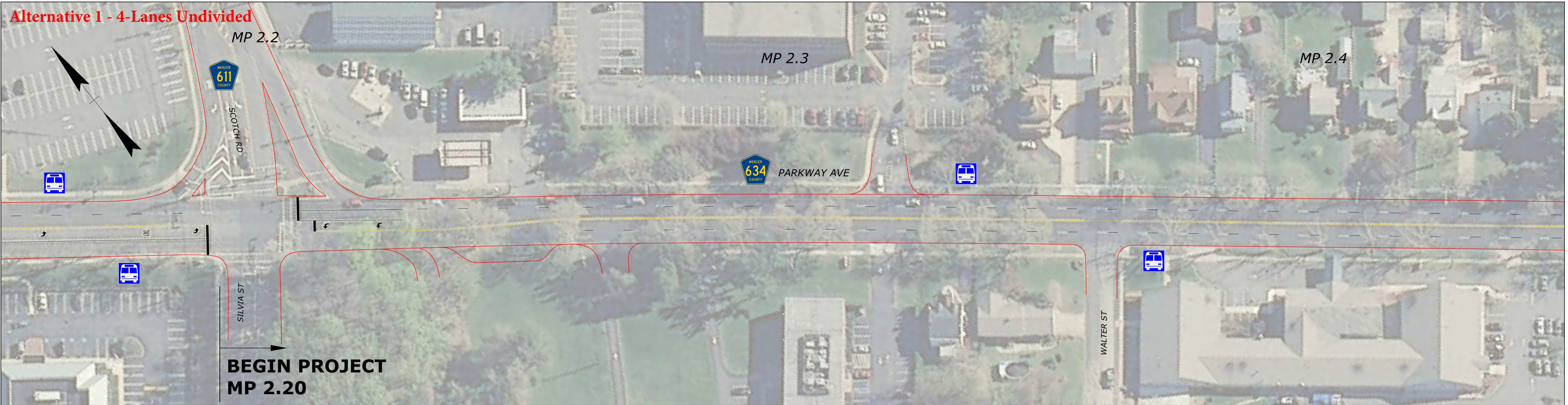


Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-4
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.82 To MP 4.11
	August 2017





Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

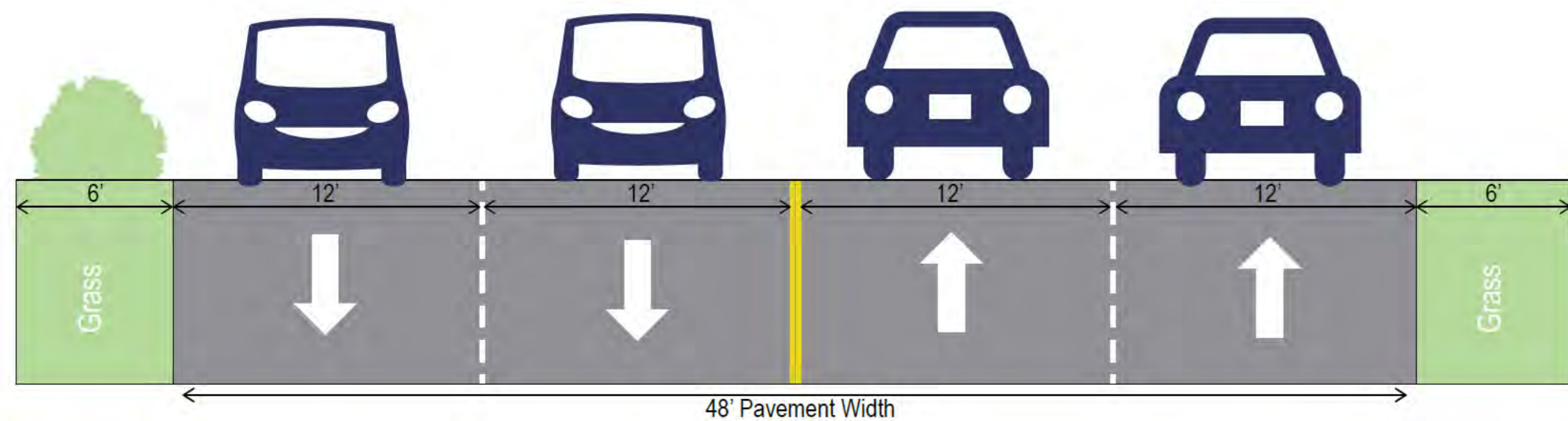
Source: NCDOT DTDC

C-1
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
	August 2017 

Alternative 1 - 4-Lanes Undivided



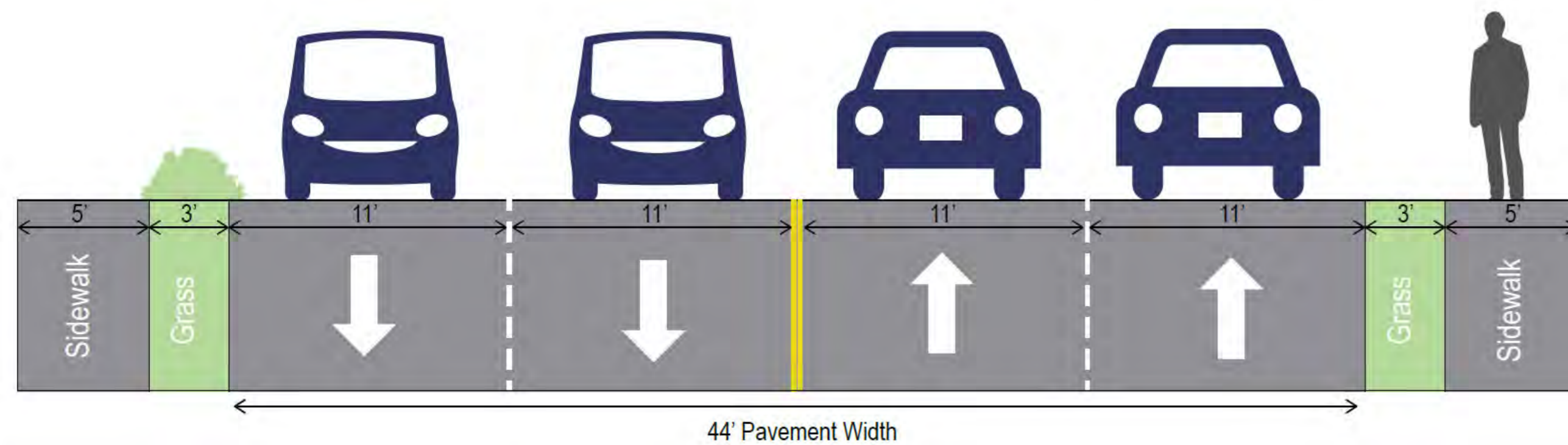
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-2
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
	August 2017

Alternative 1 - 4-Lanes Undivided



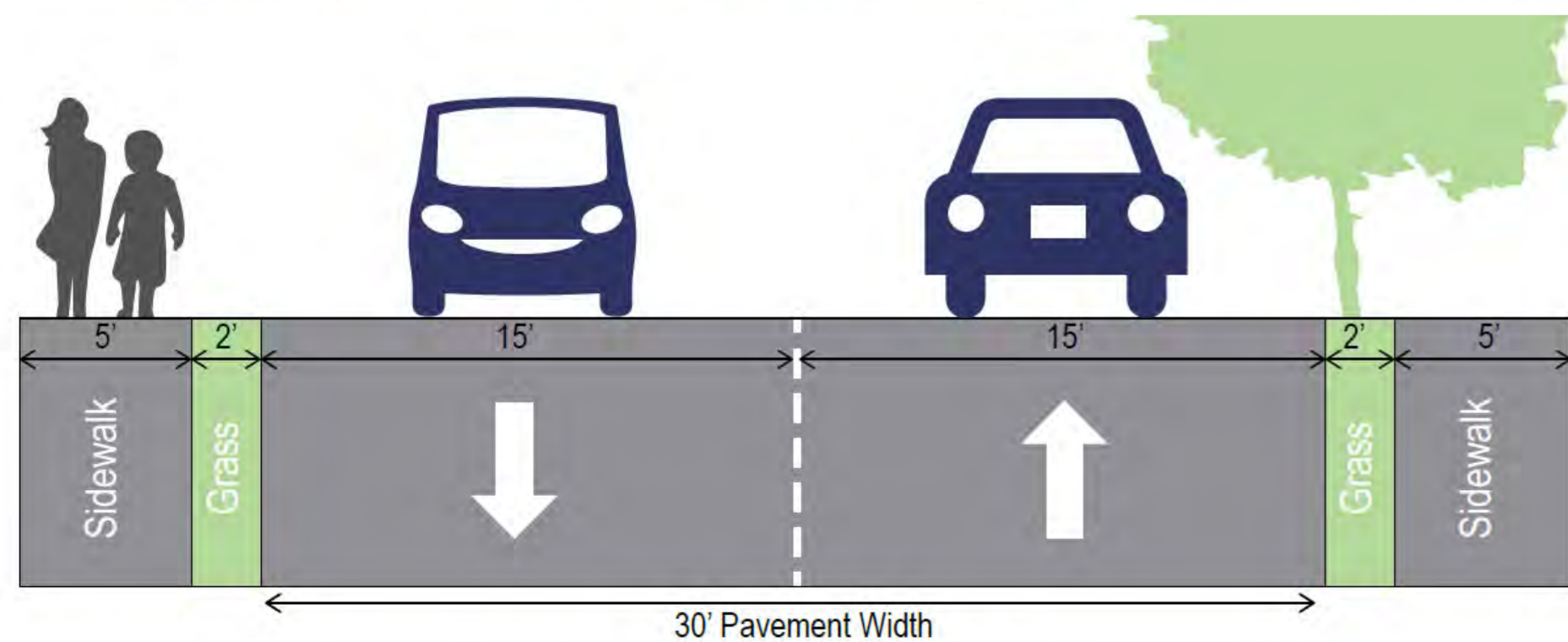
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-3
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.28 To MP 3.82
	August 2017 Michael Baker INTERNATIONAL

Alternative 1 - 4-Lanes Undivided



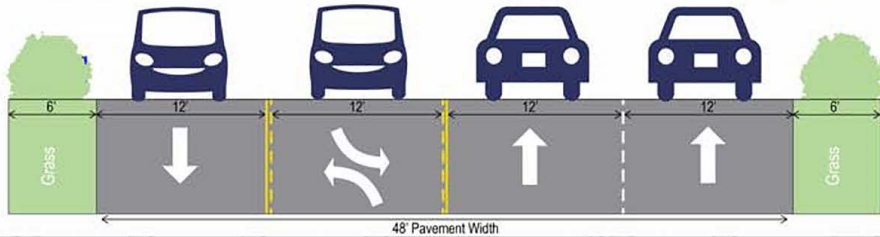
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	196.5	405.3	601.8
Expected 20-Year Reduction	-9.3	5.6	-3.8
Expected % Reduction	-5.0%	1.4%	-0.6%
Expected Annual Benefit	(\$103,474)	\$2,743	(\$100,730)

C-4
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.82 To MP 4.11
	August 2017

Alternative 2 - Existing Conditions (Partial Road Diet)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	187.2	410.9	598.0
Expected 20-Year Reduction	0.0	0.0	0.0
Expected % Reduction	0.0%	0.0%	0.0%
Expected Annual Benefit	\$0	\$0	\$0

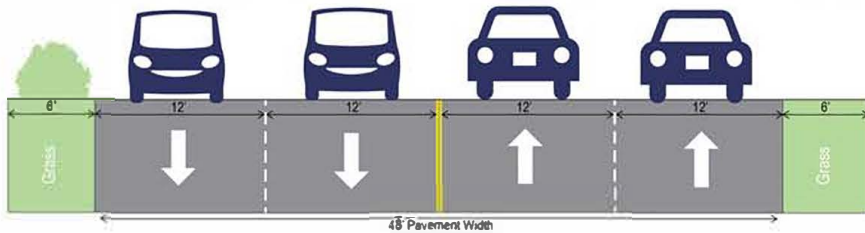
C-1
C-4

Concept Alternatives
 Parkway Avenue (CR 634)
 Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
----------	--------------------

August 2017

Alternative 2 - Existing Conditions (Partial Road Diet)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	187.2	410.9	598.0
Expected 20-Year Reduction	0.0	0.0	0.0
Expected % Reduction	0.0%	0.0%	0.0%
Expected Annual Benefit	\$0	\$0	\$0

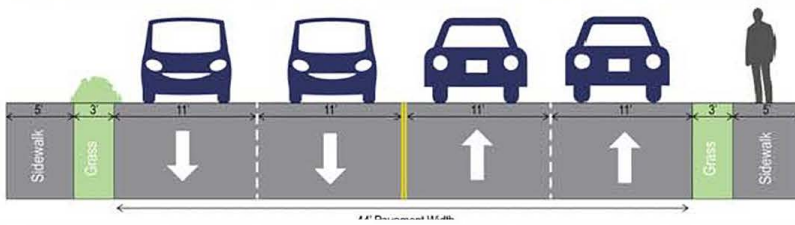
C-2
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
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August 2017

Alternative 2 - Existing Conditions (Partial Road Diet)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	187.2	410.9	598.0
Expected 20-Year Reduction	0.0	0.0	0.0
Expected % Reduction	0.0%	0.0%	0.0%
Expected Annual Benefit	\$0	\$0	\$0

C-3
C-4

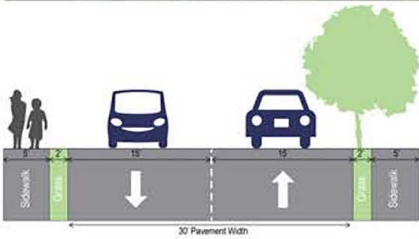
Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.28 To MP 3.82
----------	--------------------

August 2017

Michael Baker INTERNATIONAL

Alternative 2 - Existing Conditions (Partial Road Diet)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	187.2	410.9	598.0
Expected 20-Year Reduction	0.0	0.0	0.0
Expected % Reduction	0.0%	0.0%	0.0%
Expected Annual Benefit	\$0	\$0	\$0

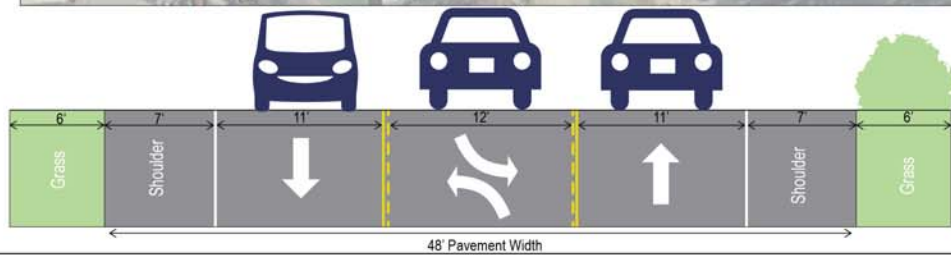
C-4
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.82 To MP 4.11
August 2017	

Michael Baker INTERNATIONAL

Alternative 3 - Basic Road Diet



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	423.9	581.9
Expected 20-Year Reduction	29.1	-13.1	16.1
Expected % Reduction	15.6%	-3.2%	2.7%
Expected Annual Benefit	\$322,559	(\$6,466)	\$316,093

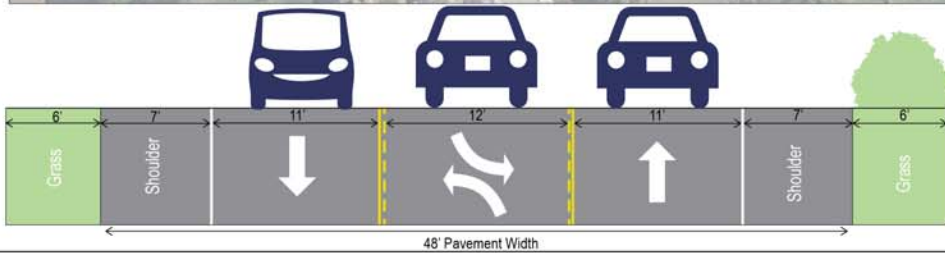
C-1
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
	April 2018

Alternative 3 - Basic Road Diet



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	423.9	581.9
Expected 20-Year Reduction	29.1	-13.1	16.1
Expected % Reduction	15.6%	-3.2%	2.7%
Expected Annual Benefit	\$322,559	(\$6,466)	\$316,093

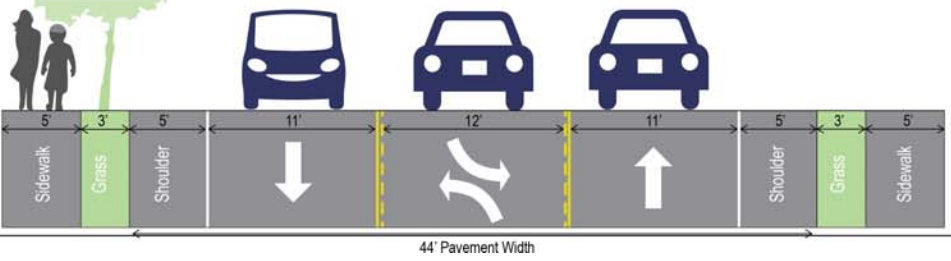
C-2
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
	April 2018

Alternative 3 - Basic Road Diet



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	423.9	581.9
Expected 20-Year Reduction	29.1	-13.1	16.1
Expected % Reduction	15.6%	-3.2%	2.7%
Expected Annual Benefit	\$322,559	(\$6,466)	\$316,093

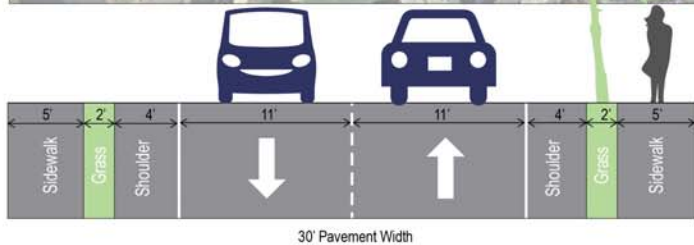
Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location **MP 3.28 To MP 3.82**

April 2018 **Michael Baker INTERNATIONAL**

C-3
C-4

Alternative 3 - Basic Road Diet

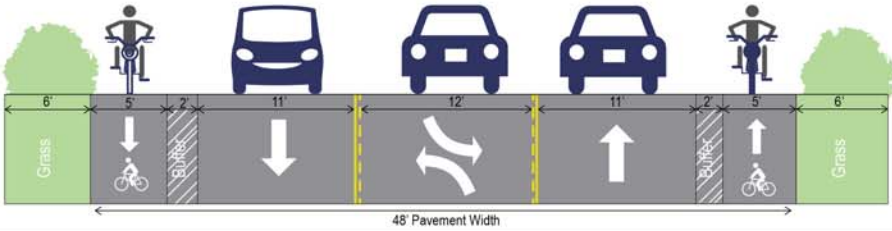


	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	423.9	581.9
Expected 20-Year Reduction	29.1	-13.1	16.1
Expected % Reduction	15.6%	-3.2%	2.7%
Expected Annual Benefit	\$322,559	(\$6,466)	\$316,093

Concept Alternatives	
Parkway Avenue (CR 634) Ewing Township & City of Trenton, Mercer County	
Location	MP 3.82 To MP 4.11
	April 2018

C-4
C-4

Alternative 4 - Enhanced Road Diet (no Roundabouts)



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

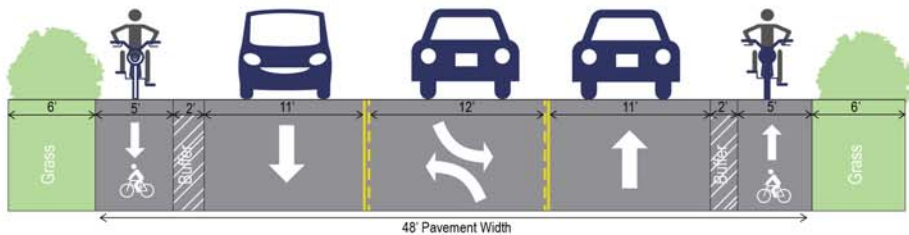
C-1
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
	June 2018

Alternative 4 - Enhanced Road Diet (no Roundabouts)



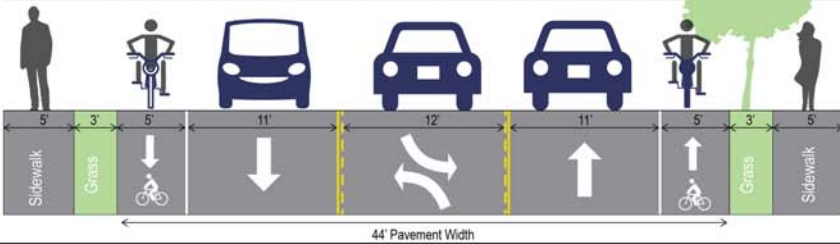
Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

C-2
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
	June 2018 Michael Baker INTERNATIONAL

Alternative 4 - Enhanced Road Diet (no Roundabouts)



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

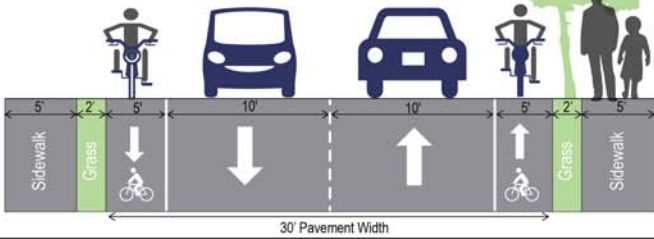
C-3
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.28 To MP 3.82
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June 2018

Alternative 4 - Enhanced Road Diet (no Roundabouts)

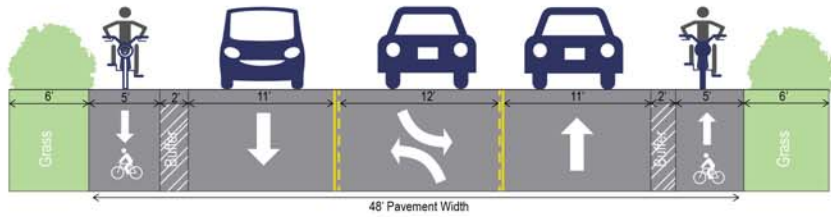


Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

C-4
C-4

<h3>Concept Alternatives</h3> <p>Parkway Avenue (CR 634) Ewing Township & City of Trenton, Mercer County</p>	
Location	MP 3.82 To MP 4.11
June 2018	

Alternative 4 - Enhanced Road Diet (with Roundabouts)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

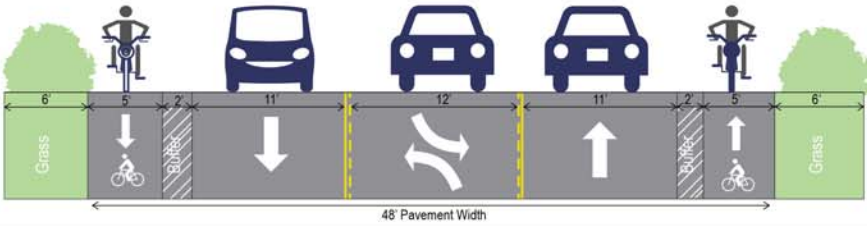
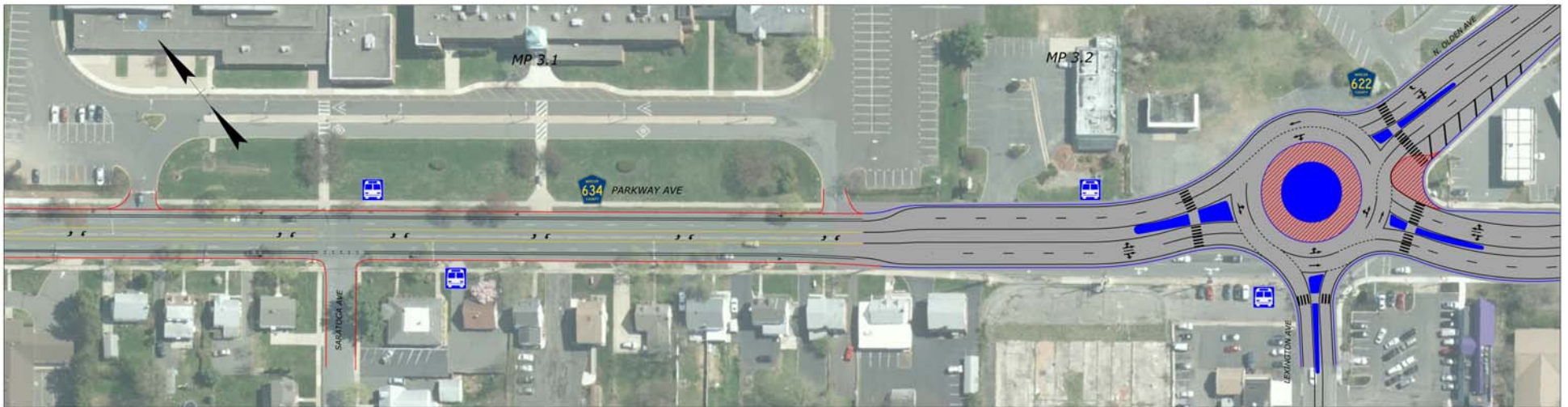
C-1
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
	June 2018

Alternative 4 - Enhanced Road Diet (with Roundabouts)



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

C-2
C-4

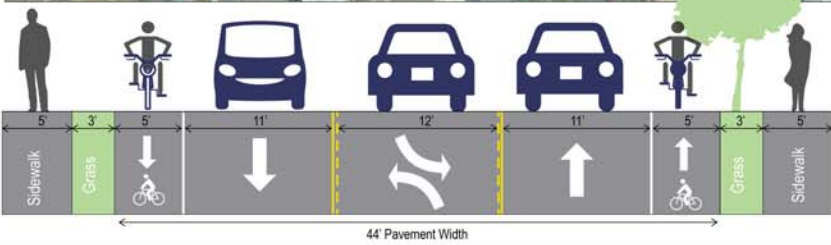
Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
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June 2018

Michael Baker
INTERNATIONAL

Alternative 4 - Enhanced Road Diet (with Roundabouts)



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

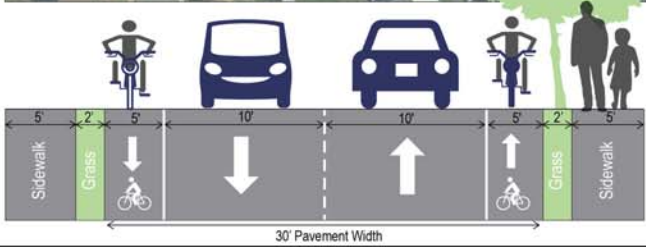
C-3
C-4

Concept Alternatives
Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 3.28 To MP 3.82
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June 2018

Alternative 4 - Enhanced Road Diet (with Roundabouts)



Expected Crashes (20-Year Analysis, 2020-2040)			
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	150.9	405.0	555.9
Expected 20-Year Reduction	36.2	5.9	42.1
Expected % Reduction	19.3%	1.4%	7.0%
Expected Annual Benefit	\$400,719	\$2,901	\$403,620

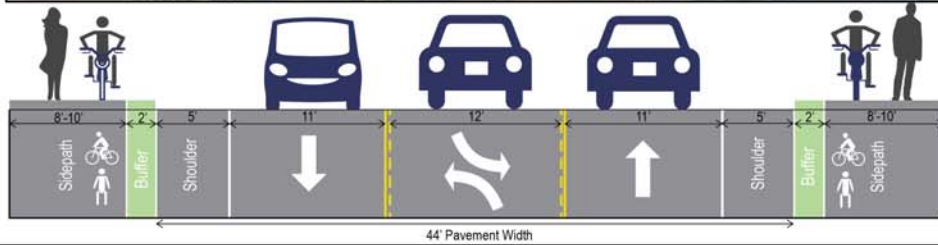
C-4
C-4

Concept Alternatives
 Parkway Avenue (CR 634)
 Ewing Township & City of Trenton, Mercer County

Location	MP 3.82 To MP 4.11
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June 2018

Alternative 5 - Reduced Pavement Width + Side Path



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	405.0	562.9
Expected 20-Year Reduction	29.2	5.9	35.1
Expected % Reduction	15.6%	1.4%	5.9%
Expected Annual Benefit	\$323,029	\$2,901	\$325,930

C-1
C-4

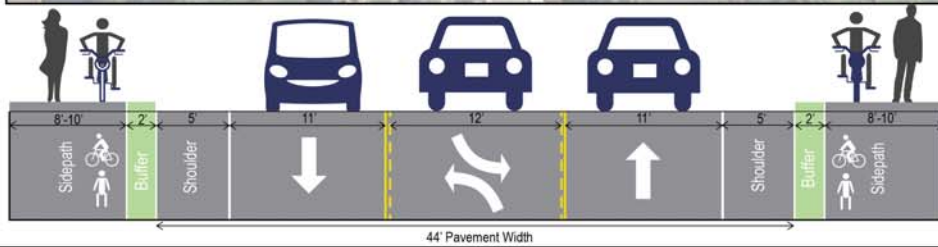
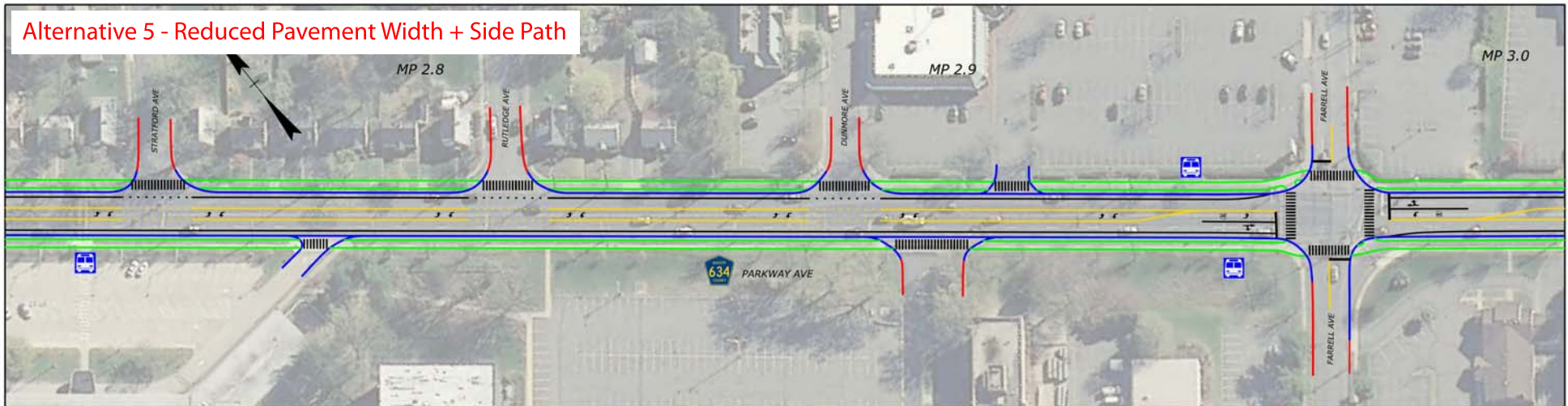
Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.20 To MP 2.72
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April 2018

Alternative 5 - Reduced Pavement Width + Side Path



	Expected Crashes (20-Year Analysis, 2020-2040)		
	Fatal/Injury	Property Damage	Total
Expected Crashes (No-Build)	187.2	410.9	598.0
Expected Crashes (Alternative)	158.0	405.0	562.9
Expected 20-Year Reduction	29.2	5.9	35.1
Expected % Reduction	15.6%	1.4%	5.9%
Expected Annual Benefit	\$323,029	\$2,901	\$325,930

C-2
C-4

Concept Alternatives

Parkway Avenue (CR 634)
Ewing Township & City of Trenton, Mercer County

Location	MP 2.72 To MP 3.28
	April 2018