

APPENDIX C

Base Year 2020

Performance Measures

Contents:

- *Level of Service (LOS) Summary Tables for Vehicles*
 - *AM, PM, & Saturday Peaks*
- *Level of Service (LOS) Summary Tables for Bikes/Pedestrians*
 - *AM, PM, & Saturday Peaks*
- *Synchro Printouts of Highway Capacity Manual 6th Edition*
 - *AM, PM, & Saturday Peaks (Raw Data)*

Level of Service Letter Grade (based on average delay per vehicle in seconds)		
Signalized Intersections		
A	=	0.0 - 9.9
B	=	10.0 - 19.9
C	=	20.0 - 34.9
D	=	35.0 - 54.9
E	=	55.0 - 79.9
F	=	80.0 & Above
V/C Ratios		
Intersections		
=	< 0.85	
=	0.85 - 0.95	
=	0.96 - 1.00	
=	> 1.00	

Bike & Pedestrian Scores		
BLOS & PLOS		
Signalized Intersections		
A	<=	1.50
B	>	1.50 - 2.50
C	>	2.50 - 3.50
D	>	3.50 - 4.50
E	>	4.50 - 5.50
F	>	5.50

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			AM Peak (08:00 AM to 09:00 AM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection Name(s)	Approach	Lane Configuration	By Lane Configuration		By Approach		By Overall Intersection		By Lane Configuration	Max
Atlantic Ave @ Coolidge Ave	Eastbound	Left	8.9	A	9.0	A	6.3	A	0.18	0.18
		Thru	0.0	A					0.00	
		Right	9.0	A					0.18	
	Westbound	Left	0.4	A	0.4	A			0.15	
		Thru	0.0	A					0.00	
		Right	0.4	A					0.16	
	Northbound	Left	23.1	C	23.1	C			0.03	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	25.7	C	25.7	C			0.13	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Washington Ave	Eastbound	Left	0.6	A	0.7	A	2.7	A	0.22	0.26
		Thru	0.0	A					0.00	
		Right	0.7	A					0.23	
	Westbound	Left	0.5	A	0.6	A			0.22	
		Thru	0.0	A					0.00	
		Right	0.7	A					0.24	
	Northbound	Left	23.8	C	23.8	C			0.04	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	30.8	C	30.8	C			0.26	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Cedar Grove Ave	Eastbound	Left	0.6	A	0.7	A	5.8	A	0.23	0.24
		Thru	0.0	A					0.00	
		Right	0.8	A					0.24	
	Westbound	Left	8.8	A	8.9	A			0.22	
		Thru	0.0	A					0.00	
		Right	9.0	A					0.23	
	Northbound	Left	24.2	C	24.2	C			0.05	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	23.9	C	23.9	C			0.04	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Mansfield Ave	Eastbound	Left	0.5	A	0.6	A	1.1	A	0.20	0.25
		Thru	0.0	A					0.00	
		Right	0.7	A					0.21	
	Westbound	Left	0.7	A	0.7	A			0.24	
		Thru	0.0	A					0.00	
		Right	0.8	A					0.25	
	Northbound	Left	24.1	C	24.1	C			0.12	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			AM Peak (08:00 AM to 09:00 AM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection Name(s)	Approach	Lane Configuration	By Lane Configuration		By Approach		By Overall Intersection		By Lane Configuration	Max
Atlantic Ave @ Huntington Ave	Eastbound	Left	0.6	A	0.6	A	6.4	A	0.21	0.26
		Thru	0.0	A					0.00	
		Right	0.7	A					0.22	
	Westbound	Left	10.5	B	10.6	B			0.25	
		Thru	0.0	A					0.00	
		Right	10.7	B					0.26	
	Northbound	Left	23.6	C	23.6	C			0.12	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Essex Ave	Eastbound	Left	0.7	A	0.7	A	11.6	B	0.24	0.24
		Thru	0.7	A					0.24	
	Westbound	Thru	19.6	B	19.6	B			0.23	
		Right	19.7	B					0.23	
	Southbound	Left	25.4	C	25.4	C			0.16	
		Right	0.0	A					0.00	
Atlantic Ave @ Douglass Ave	Eastbound	Left	0.5	A	0.6	A	1.2	A	0.21	0.28
		Thru	0.0	A					0.00	
		Right	0.7	A					0.22	
	Westbound	Left	0.7	A	0.8	A			0.26	
		Thru	0.0	A					0.00	
		Right	0.9	A					0.28	
	Northbound	Left	25.2	C	25.2	C			0.15	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Fredericksburg Ave	Eastbound	Left	0.6	A	0.7	A	7.1	A	0.23	0.28
		Thru	0.0	A					0.00	
		Right	0.7	A					0.24	
	Westbound	Left	10.8	B	10.9	B			0.27	
		Thru	0.0	A					0.00	
		Right	11.0	B					0.28	
	Northbound	Left	21.3	C	21.3	C			0.05	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	21.2	C	21.2	C			0.05	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			PM Peak (05:00 PM to 06:00 PM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection	Approach	Lane Config.	By Lane Config.		By Approach		By Overall Intersection		By Lane Config.	Max
Atlantic Ave @ Coolidge Ave	Eastbound	Left	8.8	A	8.8	A	5.8	A	0.17	0.20
		Thru	0.0	A					0.00	
		Right	8.9	A					0.17	
	Westbound	Left	0.4	A	0.5	A			0.19	
		Thru	0.0	A					0.00	
		Right	0.5	A					0.20	
	Northbound	Left	24.3	C	24.3	C			0.09	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	27.3	C	27.3	C			0.19	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Washington Ave	Eastbound	Left	37.3	D	37.8	D	27.2	C	0.44	0.56
		Thru	0.0	A					0.00	
		Right	38.3	D					0.47	
	Westbound	Left	20.0	C	20.9	C			0.51	
		Thru	0.0	A					0.00	
		Right	22.0	C					0.56	
	Northbound	Left	8.3	A	8.3	A			0.07	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	9.9	A	9.9	A			0.16	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Cedar Grove Ave	Eastbound	Left	0.5	A	0.5	A	6.2	A	0.22	0.26
		Thru	0.0	A					0.00	
		Right	0.6	A					0.23	
	Westbound	Left	9.1	A	9.2	A			0.25	
		Thru	0.0	A					0.00	
		Right	9.2	A					0.26	
	Northbound	Left	24.6	C	24.6	C			0.08	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	24.2	C	24.2	C			0.07	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Mansfield Ave	Eastbound	Left	6.6	A	6.6	A	3.8	A	0.22	0.24
		Thru	0.0	A					0.00	
		Right	6.7	A					0.23	
	Westbound	Left	0.5	A	0.6	A			0.23	
		Thru	0.0	A					0.00	
		Right	0.7	A					0.24	
	Northbound	Left	24.1	C	24.1	C			0.12	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			PM Peak (05:00 PM to 06:00 PM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection	Approach	Lane Config.	By Lane Config.		By Approach		By Overall Intersection		By Lane Config.	Max
Atlantic Ave @ Huntington Ave	Eastbound	Left	0.5	A	0.5	A	6.0	A	0.22	0.25
		Thru	0.0	A					0.00	
		Right	0.6	A					0.22	
	Westbound	Left	10.4	B	10.4	B			0.24	
		Thru	0.0	A					0.00	
		Right	10.5	B					0.25	
	Northbound	Left	21.0	C	21.0	C			0.04	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Essex Ave	Eastbound	Left	1.2	A	1.0	A	10.6	B	0.31	0.31
		Thru	0.9	A					0.29	
	Westbound	Thru	19.2	B	19.2	B			0.21	
		Right	19.3	B					0.21	
	Southbound	Left	25.9	C	25.9	C			0.20	
		Right	0.0	A					0.00	
Atlantic Ave @ Douglass Ave	Eastbound	Left	0.7	A	0.7	A	1.0	A	0.26	0.27
		Thru	0.0	A					0.00	
		Right	0.7	A					0.27	
	Westbound	Left	0.6	A	0.7	A			0.25	
		Thru	0.0	A					0.00	
		Right	0.7	A					0.26	
	Northbound	Left	21.6	C	21.6	C			0.03	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Fredericksburg Ave	Eastbound	Left	0.6	A	0.6	A	6.3	A	0.24	0.26
		Thru	0.0	A					0.00	
		Right	0.7	A					0.25	
	Westbound	Left	10.5	B	10.6	B			0.25	
		Thru	0.0	A					0.00	
		Right	10.7	B					0.26	
	Northbound	Left	22.6	C	22.6	C			0.09	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	23.4	C	23.4	C			0.13	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			SAT Peak (12:00 PM to 01:00 PM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection	Approach	Lane Con.	By Lane Con.		By Approach		By Overall Intersection		By Lane Con.	Max
Atlantic Ave @ Coolidge Ave	Eastbound	Left	11.7	B	11.9	B	7.7	A	0.40	0.42
		Thru	0.0	A					0.00	
		Right	12.1	B					0.42	
	Westbound	Left	1.4	A	1.5	A			0.38	
		Thru	0.0	A					0.00	
		Right	1.7	A					0.40	
	Northbound	Left	23.6	C	23.6	C			0.06	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	23.9	C	23.9	C			0.11	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Washington Ave	Eastbound	Left	1.7	A	1.8	A	3.9	A	0.41	0.45
		Thru	0.0	A					0.00	
		Right	1.9	A					0.43	
	Westbound	Left	1.6	A	1.9	A			0.43	
		Thru	0.0	A					0.00	
		Right	2.2	A					0.45	
	Northbound	Left	24.2	C	24.2	C			0.06	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	36.5	D	36.5	D			0.41	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Cedar Grove Ave	Eastbound	Left	1.5	A	1.6	A	7.9	A	0.41	0.46
		Thru	0.0	A					0.00	
		Right	1.8	A					0.43	
	Westbound	Left	11.5	B	11.8	B			0.44	
		Thru	0.0	A					0.00	
		Right	12.0	B					0.46	
	Northbound	Left	24.4	C	24.4	C			0.08	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	24.8	C	24.8	C			0.12	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Mansfield Ave	Eastbound	Left	7.5	A	7.6	A	4.5	A	0.33	0.42
		Thru	0.0	A					0.00	
		Right	7.7	A					0.35	
	Westbound	Left	1.4	A	1.6	A			0.40	
		Thru	0.0	A					0.00	
		Right	1.7	A					0.42	
	Northbound	Left	21.5	C	21.5	C			0.04	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR			Base Conditions/2020							
PEAK HOUR			SAT Peak (12:00 PM to 01:00 PM)							
HCM 6th Edition			Vehicular Performance Measures							
			DELAY (seconds) & LOS (Letter Grade)					Volume to Capacity Ratio		
Intersection	Approach	Lane Con.	By Lane Con.		By Approach		By Overall Intersection		By Lane Con.	Max
Atlantic Ave @ Huntington Ave	Eastbound	Left	0.9	A	1.0	A	7.8	A	0.30	0.42
		Thru	0.0	A					0.00	
		Right	1.1	A					0.32	
	Westbound	Left	12.4	B	12.7	B			0.40	
		Thru	0.0	A					0.00	
		Right	13.1	B					0.42	
	Northbound	Left	21.3	C	21.3	C			0.06	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Essex Ave	Eastbound	Left	1.9	A	1.5	A	7.8	A	0.35	0.35
		Thru	1.1	A					0.32	
	Westbound	Thru	20.9	C	20.9	C			0.28	
		Right	20.9	C					0.29	
	Southbound	Left	27.9	C	27.9	C			0.34	
		Right	0.0	A					0.00	
Atlantic Ave @ Douglass Ave	Eastbound	Left	0.9	A	0.9	A	1.2	A	0.31	0.34
		Thru	0.0	A					0.00	
		Right	1.0	A					0.32	
	Westbound	Left	0.9	A	1.0	A			0.32	
		Thru	0.0	A					0.00	
		Right	1.1	A					0.34	
	Northbound	Left	21.9	C	21.9	C			0.05	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
Atlantic Ave @ Fredericksburg Ave	Eastbound	Left	0.8	A	0.9	A	6.6	A	0.28	0.34
		Thru	0.0	A					0.00	
		Right	0.9	A					0.29	
	Westbound	Left	11.3	B	11.5	B			0.32	
		Thru	0.0	A					0.00	
		Right	11.6	B					0.34	
	Northbound	Left	0.0	A	0.0	A			0.00	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	
	Southbound	Left	0.0	A	0.0	A			0.00	
		Thru	0.0	A					0.00	
		Right	0.0	A					0.00	

SCENARIO/ANALYSIS YEAR		Base Conditions/2020				
PEAK HOUR		AM Peak (08:00 AM to 09:00 AM)				
HCM 6th Edition	Bike Performance Measures			Pedestrian Performance Measures		
Intersection	Approach	Score	LOS	Crosswalk	Score	LOS
Atlantic Ave @ Coolidge Ave	Eastbound	1.52	B	Southbound	2.28	B
	Westbound	1.47	A	Northbound	2.28	B
	Northbound	1.62	B	Eastbound	1.74	B
	Southbound	1.62	B	Westbound	1.75	B
Atlantic Ave @ Washington Ave	Eastbound	1.55	B	Southbound	2.33	B
	Westbound	1.58	B	Northbound	2.33	B
	Northbound	1.62	B	Eastbound	1.80	B
	Southbound	1.66	B	Westbound	1.80	B
Atlantic Ave @ Cedar Grove Ave	Eastbound	1.57	B	Southbound	2.33	B
	Westbound	1.58	B	Northbound	2.33	B
	Northbound	1.62	B	Eastbound	1.75	B
	Southbound	1.63	B	Westbound	1.75	B
Atlantic Ave @ Mansfield Ave	Eastbound	1.52	B	Southbound	2.32	B
	Westbound	1.42	A	Northbound	2.31	B
	Northbound	1.61	B	Eastbound	1.74	B
	Southbound	N/A	N/A	Westbound	1.46	A
Atlantic Ave @ Huntington Ave	Eastbound	1.54	B	Southbound	2.31	B
	Westbound	1.43	A	Northbound	2.32	B
	Northbound	1.62	B	Eastbound	1.71	B
	Southbound	N/A	N/A	Westbound	1.43	A
Atlantic Ave @ Essex Ave	Eastbound	1.90	B	Southbound	2.35	B
	Westbound	1.58	B	Northbound	2.32	B
	Southbound	1.70	B	Westbound	1.78	B
Atlantic Ave @ Douglass Ave	Eastbound	1.56	B	Southbound	2.33	B
	Westbound	1.46	A	Northbound	2.34	B
	Northbound	1.62	B	Eastbound	1.73	B
	Southbound	N/A	N/A	Westbound	1.45	A
Atlantic Ave @ Fredericksburg Ave	Eastbound	1.56	B	Southbound	2.35	B
	Westbound	1.65	B	Northbound	2.35	B
	Northbound	1.63	B	Eastbound	1.72	B
	Southbound	1.64	B	Westbound	1.74	B

SCENARIO/ANALYSIS YEAR		Base Conditions/2020				
PEAK HOUR		PM Peak (05:00 PM to 06:00 PM)				
HCM 6th Edition	Bike Performance Measures			Pedestrian Performance Measures		
Intersection	Approach	Score	LOS	Crosswalk	Score	LOS
Atlantic Ave @ Coolidge Ave	Eastbound	1.52	B	Southbound	2.32	B
	Westbound	1.56	B	Northbound	2.31	B
	Northbound	1.63	B	Eastbound	1.75	B
	Southbound	1.64	B	Westbound	1.75	B
Atlantic Ave @ Washington Ave	Eastbound	1.59	B	Southbound	2.38	B
	Westbound	1.65	B	Northbound	2.36	B
	Northbound	1.64	B	Eastbound	1.81	B
	Southbound	1.66	B	Westbound	1.80	B
Atlantic Ave @ Cedar Grove Ave	Eastbound	1.61	B	Southbound	2.37	B
	Westbound	1.66	B	Northbound	2.37	B
	Northbound	1.63	B	Eastbound	1.77	B
	Southbound	1.64	B	Westbound	1.77	B
Atlantic Ave @ Mansfield Ave	Eastbound	1.58	B	Southbound	2.34	B
	Westbound	1.45	A	Northbound	2.34	B
	Northbound	1.61	B	Eastbound	1.75	B
	Southbound	N/A	N/A	Westbound	1.46	A
Atlantic Ave @ Huntington Ave	Eastbound	1.60	B	Southbound	2.34	B
	Westbound	1.46	A	Northbound	2.34	B
	Northbound	1.62	B	Eastbound	1.71	B
	Southbound	N/A	N/A	Westbound	1.43	A
Atlantic Ave @ Essex Ave	Eastbound	2.01	B	Southbound	2.41	B
	Westbound	1.59	B	Northbound	2.46	B
	Southbound	1.73	B	Westbound	1.81	B
Atlantic Ave @ Douglass Ave	Eastbound	1.66	B	Southbound	2.37	B
	Westbound	1.48	A	Northbound	2.36	B
	Northbound	1.61	B	Eastbound	1.75	B
	Southbound	N/A	N/A	Westbound	1.47	A
Atlantic Ave @ Frederickburg Ave	Eastbound	1.64	B	Southbound	2.38	B
	Westbound	1.65	B	Northbound	2.37	B
	Northbound	1.62	B	Eastbound	1.73	B
	Southbound	1.63	B	Westbound	1.74	B

SCENARIO/ANALYSIS YEAR		Base Conditions/2020				
PEAK HOUR		SAT Peak (12:00 PM to 01:00 PM)				
HCM 6thEdition	Bike Performance Measures			Pedestrian Performance Measures		
Intersection	Approach	Score	LOS	Crosswalk	Score	LOS
Atlantic Ave @ Coolidge Ave	Eastbound	1.74	B	Southbound	2.45	B
	Westbound	1.74	B	Northbound	2.44	B
	Northbound	1.63	B	Eastbound	1.78	B
	Southbound	1.63	B	Westbound	1.78	B
Atlantic Ave @ Washington Ave	Eastbound	1.77	B	Southbound	2.47	B
	Westbound	1.80	B	Northbound	2.46	B
	Northbound	1.63	B	Eastbound	1.83	B
	Southbound	1.70	B	Westbound	1.84	B
Atlantic Ave @ Cedar Grove Ave	Eastbound	1.81	B	Southbound	2.51	C
	Westbound	1.83	B	Northbound	2.49	B
	Northbound	1.64	B	Eastbound	1.79	B
	Southbound	1.69	B	Westbound	1.80	B
Atlantic Ave @ Mansfield Ave	Eastbound	1.67	B	Southbound	2.41	B
	Westbound	1.62	B	Northbound	2.42	B
	Northbound	1.62	B	Eastbound	1.78	B
	Southbound	N/A	N/A	Westbound	1.48	A
Atlantic Ave @ Huntington Ave	Eastbound	1.67	B	Southbound	2.40	B
	Westbound	1.60	B	Northbound	2.40	B
	Northbound	1.63	B	Eastbound	1.73	B
	Southbound	N/A	N/A	Westbound	1.45	A
Atlantic Ave @ Essex Ave	Eastbound	2.00	B	Southbound	2.47	B
	Westbound	1.67	B	Northbound	2.47	B
	Southbound	1.83	B	Westbound	1.97	B
Atlantic Ave @ Douglass Ave	Eastbound	1.72	B	Southbound	2.41	B
	Westbound	1.58	B	Northbound	2.41	B
	Northbound	1.62	B	Eastbound	1.76	B
	Southbound	N/A	N/A	Westbound	1.48	A
Atlantic Ave @ Fredericksburg Ave	Eastbound	1.44	A	Southbound	2.41	B
	Westbound	1.52	B	Northbound	2.41	B
	Northbound	1.41	A	Eastbound	1.74	B
	Southbound	1.44	A	Westbound	1.76	B

Atlantic Ave Road Diet
Existing Conditions Analysis

100: Coolidge Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	270	5	5	215	8	5	5	5	7	5	5
Future Volume (veh/h)	5	270	5	5	215	8	5	5	5	7	5	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1489	1590	407	1850	1504	1662	1850	1850	1850	1850	407	1273
Adj Flow Rate, veh/h	6	314	6	6	250	9	6	6	6	8	6	6
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	25	18	100	0	24	13	0	0	0	0	100	40
Cap, veh/h	54	1796	34	58	1657	59	183	182	156	91	36	30
Arrive On Green	0.61	0.61	0.61	1.00	1.00	1.00	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	20	2939	56	27	2711	96	450	628	539	123	123	105
Grp Volume(v), veh/h	171	0	155	139	0	126	18	0	0	20	0	0
Grp Sat Flow(s),veh/h/ln	1577	0	1437	1484	0	1351	1618	0	0	351	0	0
Q Serve(g_s), s	0.0	0.0	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Cycle Q Clear(g_c), s	4.2	0.0	4.2	0.0	0.0	0.0	0.7	0.0	0.0	3.6	0.0	0.0
Prop In Lane	0.04		0.04	0.04		0.07	0.33		0.33	0.40		0.30
Lane Grp Cap(c), veh/h	1005	0	878	949	0	826	521	0	0	158	0	0
V/C Ratio(X)	0.17	0.00	0.18	0.15	0.00	0.15	0.03	0.00	0.00	0.13	0.00	0.00
Avail Cap(c_a), veh/h	1005	0	878	949	0	826	521	0	0	158	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.6	0.0	7.6	0.0	0.0	0.0	23.0	0.0	0.0	24.0	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.4	0.3	0.0	0.4	0.1	0.0	0.0	1.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	1.3	0.1	0.0	0.1	0.3	0.0	0.0	0.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.0	0.0	8.1	0.3	0.0	0.4	23.1	0.0	0.0	25.7	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		326			265			18			20	
Approach Delay, s/veh		8.0			0.4			23.1			25.7	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				5.8								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	29	15	5	5
Ped. Right-Left Flow Rate (p/h)	29	14	5	5
Ped. R. Sidewalk Flow Rate (p/h)	5	6	29	58
Veh. Perm. L. Flow in Walk (v/h)	5	0	5	5
Veh. Perm. R. Flow in Walk (v/h)	0	5	8	5
Veh. RTOR Flow in Walk (v/h)	0	3	4	3
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	172.4	294.1	194.0	99.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	135.4	271.9	606.2	613.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.28	2.28	1.74	1.75
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	73	47	5	5
Total Flow Rate (veh/h)	326	265	18	20
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.1	22.1	44.1	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	7.1	7.0	22.8	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.31	1.26	1.41	1.41
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

105: Atlantic Ave & Washington Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	278	5	5	266	66	5	5	5	24	5	7
Future Volume (veh/h)	22	278	5	5	266	66	5	5	5	24	5	7
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1590	1432	1850	1850	1561	1677	1850	1850	1850	1186	407	407
Adj Flow Rate, veh/h	26	327	6	6	313	78	6	6	6	28	6	8
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85
Percent Heavy Veh, %	18	29	0	0	20	12	0	0	0	46	100	100
Cap, veh/h	128	1428	26	49	1355	328	180	178	153	125	16	18
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.28	0.28	0.28	0.28	0.28	0.28
Sat Flow, veh/h	140	2425	44	13	2301	558	457	642	549	211	58	63
Grp Volume(v), veh/h	184	0	175	212	0	185	18	0	0	42	0	0
Grp Sat Flow(s),veh/h/ln	1315	0	1295	1552	0	1320	1648	0	0	333	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	9.3	0.0	0.0
Prop In Lane	0.14		0.03	0.03		0.42	0.33		0.33	0.67		0.19
Lane Grp Cap(c), veh/h	820	0	762	955	0	778	511	0	0	159	0	0
V/C Ratio(X)	0.22	0.00	0.23	0.22	0.00	0.24	0.04	0.00	0.00	0.26	0.00	0.00
Avail Cap(c_a), veh/h	820	0	762	955	0	778	511	0	0	159	0	0
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0	26.7	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.7	0.5	0.0	0.7	0.1	0.0	0.0	4.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	0.1	0.0	0.2	0.3	0.0	0.0	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.6	0.0	0.7	0.5	0.0	0.7	23.8	0.0	0.0	30.8	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		359			397			18			42	
Approach Delay, s/veh		0.7			0.6			23.8			30.8	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0		31.0				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		53.0		25.0		53.0		25.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				2.7								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	15	10	7	8
Ped. Right-Left Flow Rate (p/h)	14	9	6	8
Ped. R. Sidewalk Flow Rate (p/h)	16	13	19	29
Veh. Perm. L. Flow in Walk (v/h)	24	5	22	5
Veh. Perm. R. Flow in Walk (v/h)	5	7	66	5
Veh. RTOR Flow in Walk (v/h)	1	3	25	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	226.7	277.5	262.1	176.5
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	263.4	411.7	332.5	382.6
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.33	2.33	1.80	1.80
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	78	51	0	18
Total Flow Rate (veh/h)	359	397	18	42
Effct. Green for Bike (s)	53.0	53.0	25.0	25.0
Cross Street Width (ft)	22.1	22.2	44.2	44.3
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	556
Bicycle Delay (s/bike)	7.9	7.8	23.5	23.7
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.34	1.37	1.41	1.45
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

110: Cedar Grove Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	308	8	5	316	11	5	5	5	8	5	5
Future Volume (veh/h)	5	308	8	5	316	11	5	5	5	8	5	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	407	1403	1128	1850	1561	1720	768	1128	984	1662	1850	1850
Adj Flow Rate, veh/h	6	371	10	6	381	13	6	6	6	10	6	6
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	100	31	50	0	20	9	75	50	60	13	0	0
Cap, veh/h	49	1573	42	50	1738	59	133	111	95	244	146	124
Arrive On Green	1.00	1.00	1.00	0.61	0.61	0.61	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	13	2574	69	14	2844	96	275	383	329	644	505	431
Grp Volume(v), veh/h	203	0	184	210	0	190	18	0	0	22	0	0
Grp Sat Flow(s),veh/h/ln	1391	0	1264	1550	0	1404	987	0	0	1580	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	5.4	0.0	5.5	1.1	0.0	0.0	0.8	0.0	0.0
Prop In Lane	0.03		0.05	0.03		0.07	0.33		0.33	0.45		0.27
Lane Grp Cap(c), veh/h	892	0	772	988	0	858	339	0	0	515	0	0
V/C Ratio(X)	0.23	0.00	0.24	0.21	0.00	0.22	0.05	0.00	0.00	0.04	0.00	0.00
Avail Cap(c_a), veh/h	892	0	772	988	0	858	339	0	0	515	0	0
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	7.9	0.0	7.9	23.1	0.0	0.0	23.0	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.7	0.5	0.0	0.6	0.3	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.2	1.8	0.0	1.6	0.3	0.0	0.0	0.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.6	0.0	0.7	8.4	0.0	8.5	23.4	0.0	0.0	23.2	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		387			400			18			22	
Approach Delay, s/veh		0.7			8.4			23.4			23.2	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				5.5								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	27	12	5	5
Ped. Right-Left Flow Rate (p/h)	27	13	5	5
Ped. R. Sidewalk Flow Rate (p/h)	5	5	25	58
Veh. Perm. L. Flow in Walk (v/h)	8	5	5	5
Veh. Perm. R. Flow in Walk (v/h)	5	5	11	8
Veh. RTOR Flow in Walk (v/h)	2	2	7	4
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	183.6	331.9	222.0	103.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	144.0	313.5	599.3	606.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.33	2.33	1.75	1.75
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	93	50	7	5
Total Flow Rate (veh/h)	387	400	18	22
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.0	22.1	44.0	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	7.1	7.0	22.8	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.36	1.37	1.40	1.41
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

115: Mansfield Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	286	5	5	343	20	5	5	5	0	0	0
Future Volume (veh/h)	5	286	5	5	343	20	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1850	1460	407	407	1533	1273	1850	407	407			
Adj Flow Rate, veh/h	5	314	5	5	377	22	5	5	5			
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91			
Percent Heavy Veh, %	0	27	100	100	22	40	0	100	100			
Cap, veh/h	50	1658	26	47	1665	96	36	36	36			
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.29	0.29	0.29			
Sat Flow, veh/h	14	2713	43	10	2725	157	126	126	126			
Grp Volume(v), veh/h	170	0	154	213	0	191	15	0	0			
Grp Sat Flow(s),veh/h/ln	1449	0	1321	1526	0	1366	378	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0			
Prop In Lane	0.03		0.03	0.02		0.11	0.33		0.33			
Lane Grp Cap(c), veh/h	926	0	807	973	0	835	109	0	0			
V/C Ratio(X)	0.18	0.00	0.19	0.22	0.00	0.23	0.14	0.00	0.00			
Avail Cap(c_a), veh/h	926	0	807	973	0	835	109	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0			
Incr Delay (d2), s/veh	0.4	0.0	0.5	0.5	0.0	0.6	2.6	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.4	0.0	0.5	0.5	0.0	0.6	26.3	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		324			404			15				
Approach Delay, s/veh		0.5			0.6			26.3				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0						
Change Period (Y+Rc), s		5.0		4.0		5.0						
Max Green Setting (Gmax), s		55.0		26.0		55.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				1.1								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	0	4	2	6
Effective Walk Time (s)	0.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	11	5	5	5
Ped. Right-Left Flow Rate (p/h)	11	5	5	5
Ped. R. Sidewalk Flow Rate (p/h)	5	5	5	22
Veh. Perm. L. Flow in Walk (v/h)	5	5	5	5
Veh. Perm. R. Flow in Walk (v/h)	5	0	20	5
Veh. RTOR Flow in Walk (v/h)	2	0	5	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	357.4	545.0	545.0	244.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	0.0	790.4	578.5	613.2
Crosswalk Circulation Code	F	A	A	A
Pedestrian Delay (s/p)	45.0	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.32	2.31	1.74	1.46
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	74	73	5	5
Total Flow Rate (veh/h)	324	404	15	0
Effct. Green for Bike (s)	55.0	55.0	26.0	0.0
Cross Street Width (ft)	22.0	11.0	44.0	45.9
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	0
Bicycle Delay (s/bike)	7.1	7.1	22.8	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.31	1.20	1.40	0.00
Bicycle LOS	A	A	A	

Atlantic Ave Road Diet
Existing Conditions Analysis

120: Huntington Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	302	5	5	353	20	5	5	5	0	0	0
Future Volume (veh/h)	11	302	5	5	353	20	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1720	1489	1850	1850	1504	1706	1850	407	1561			
Adj Flow Rate, veh/h	12	332	5	5	388	22	5	5	5			
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91			
Percent Heavy Veh, %	9	25	0	0	24	10	0	100	20			
Cap, veh/h	73	1590	24	46	1578	88	35	35	35			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	52	2701	40	9	2679	150	126	126	126			
Grp Volume(v), veh/h	182	0	167	218	0	197	15	0	0			
Grp Sat Flow(s),veh/h/ln	1445	0	1348	1497	0	1341	378	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	6.4	2.7	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	6.3	0.0	6.4	2.7	0.0	0.0			
Prop In Lane	0.07		0.03	0.02		0.11	0.33		0.33			
Lane Grp Cap(c), veh/h	893	0	794	923	0	790	105	0	0			
V/C Ratio(X)	0.20	0.00	0.21	0.24	0.00	0.25	0.14	0.00	0.00			
Avail Cap(c_a), veh/h	893	0	794	923	0	790	105	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	8.9	0.0	8.9	24.4	0.0	0.0			
Incr Delay (d2), s/veh	0.5	0.0	0.6	0.6	0.0	0.8	2.8	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	2.0	0.0	1.9	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.5	0.0	0.6	9.5	0.0	9.7	27.3	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		349			415			15				
Approach Delay, s/veh		0.6			9.6			27.3				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				5.9								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	11.0	11.0	29.0	29.0
Right Corner Size A (ft)	7.0	7.0	7.0	7.0
Right Corner Size B (ft)	7.0	7.0	7.0	7.0
Right Corner Curb Radius (ft)	14.0	14.0	14.0	14.0
Right Corner Total Area (sq.ft)	6.86	6.86	6.86	6.86
Ped. Left-Right Flow Rate (p/h)	20	9	5	5
Ped. Right-Left Flow Rate (p/h)	17	9	5	5
Ped. R. Sidewalk Flow Rate (p/h)	5	5	18	37
Veh. Perm. L. Flow in Walk (v/h)	5	5	11	5
Veh. Perm. R. Flow in Walk (v/h)	5	5	20	5
Veh. RTOR Flow in Walk (v/h)	2	2	12	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	102.1	171.4	122.9	61.6
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	211.5	435.8	1606.8	1655.5
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	20.7	20.7
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.32	2.32	1.74	1.45
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	69	71	5	5
Total Flow Rate (veh/h)	349	415	15	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.2	11.1	44.1	44.5
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	No
On Street Parking?	Yes	Yes	Yes	No
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	7.9	7.9	23.5	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.33	1.21	1.40	0.00
Bicycle LOS	A	A	A	

						
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑↑	↑↑		↑↑	
Traffic Volume (veh/h)	30	313	331	30	25	35
Future Volume (veh/h)	30	313	331	30	25	35
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1807	1475	1518	1316	1677	1561
Adj Flow Rate, veh/h	33	340	360	33	27	38
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	3	26	23	37	12	20
Cap, veh/h	151	1418	1574	143	170	239
Arrive On Green	1.00	1.00	0.19	0.19	0.28	0.28
Sat Flow, veh/h	177	2476	2749	244	610	859
Grp Volume(v), veh/h	194	179	193	200	66	0
Grp Sat Flow(s),veh/h/ln	1311	1275	1442	1474	1492	0
Q Serve(g_s), s	0.2	0.0	10.2	10.3	3.0	0.0
Cycle Q Clear(g_c), s	10.5	0.0	10.2	10.3	3.0	0.0
Prop In Lane	0.17			0.17	0.41	0.58
Lane Grp Cap(c), veh/h	819	751	849	868	414	0
V/C Ratio(X)	0.24	0.24	0.23	0.23	0.16	0.00
Avail Cap(c_a), veh/h	819	751	849	868	414	0
HCM Platoon Ratio	2.00	2.00	0.33	0.33	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	19.0	19.0	24.6	0.0
Incr Delay (d2), s/veh	0.7	0.7	0.6	0.6	0.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.2	3.9	4.1	1.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	0.7	0.7	19.6	19.7	25.4	0.0
LnGrp LOS	A	A	B	B	C	A
Approach Vol, veh/h		373	393		66	
Approach Delay, s/veh		0.7	19.6		25.4	
Approach LOS		A	B		C	
Timer - Assigned Phs		2		4		6
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0
Change Period (Y+Rc), s		6.0		6.0		6.0
Max Green Setting (Gmax), s		53.0		25.0		53.0
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0
Green Ext Time (p_c), s		0.0		0.0		0.0
Intersection Summary						
HCM 6th Ctrl Delay			11.6			
HCM 6th LOS			B			

Approach	EB	WB	SB
Crosswalk Length (ft)	70.0	70.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2
Number of Right-Turn Islands	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	6	4	8
Effective Walk Time (s)	11.0	11.0	0.0
Right Corner Size A (ft)	7.0	7.0	7.0
Right Corner Size B (ft)	7.0	7.0	7.0
Right Corner Curb Radius (ft)	12.0	12.0	12.0
Right Corner Total Area (sq.ft)	18.04	18.04	18.04
Ped. Left-Right Flow Rate (p/h)	6	5	5
Ped. Right-Left Flow Rate (p/h)	6	5	5
Ped. R. Sidewalk Flow Rate (p/h)	7	0	12
Veh. Perm. L. Flow in Walk (v/h)	0	0	0
Veh. Perm. R. Flow in Walk (v/h)	35	0	0
Veh. RTOR Flow in Walk (v/h)	20	0	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	543.4	786.9	461.6
Right Corner Quality of Service	A	A	A
Ped. Circulation Area (sq.ft)	632.7	795.5	0.0
Crosswalk Circulation Code	A	A	F
Pedestrian Delay (s/p)	34.7	34.7	45.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.35	2.32	1.79
Pedestrian Crosswalk LOS	B	B	B

Approach	EB	WB	SB
Bicycle Flow Rate (bike/h)	74	72	7
Total Flow Rate (veh/h)	373	393	65
Effct. Green for Bike (s)	53.0	53.0	25.0
Cross Street Width (ft)	44.0	22.0	44.0
Through Lanes Number	2	2	1
Through Lane Width (ft)	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556
Bicycle Delay (s/bike)	7.9	7.9	23.6
Bicycle Compliance	Good	Good	Fair
Bicycle LOS Score	1.68	1.36	1.48
Bicycle LOS	B	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

130: Douglass Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	300	5	5	356	26	5	5	5	0	0	0
Future Volume (veh/h)	8	300	5	5	356	26	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1489	1504	1128	1128	1518	1403	1850	407	1850			
Adj Flow Rate, veh/h	9	353	6	6	419	31	6	6	6			
Peak Hour Factor	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85	0.85			
Percent Heavy Veh, %	25	24	50	50	23	31	0	100	0			
Cap, veh/h	60	1625	27	47	1562	114	35	35	35			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	30	2759	46	10	2652	194	126	126	126			
Grp Volume(v), veh/h	192	0	176	241	0	215	18	0	0			
Grp Sat Flow(s),veh/h/ln	1475	0	1360	1510	0	1347	378	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	7.0	3.2	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	7.0	0.0	7.0	3.2	0.0	0.0			
Prop In Lane	0.05		0.03	0.02		0.14	0.33		0.33			
Lane Grp Cap(c), veh/h	911	0	801	930	0	793	105	0	0			
V/C Ratio(X)	0.21	0.00	0.22	0.26	0.00	0.27	0.17	0.00	0.00			
Avail Cap(c_a), veh/h	911	0	801	930	0	793	105	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	9.0	0.0	9.1	24.6	0.0	0.0			
Incr Delay (d2), s/veh	0.5	0.0	0.6	0.7	0.0	0.8	3.5	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	2.3	0.0	2.1	0.4	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.5	0.0	0.6	9.7	0.0	9.9	28.2	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		368			456			18				
Approach Delay, s/veh		0.6			9.8			28.2				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				6.2								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	22.0	11.0
Crosswalk Width (ft)	12.0	12.0	12.0	12.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	12.0	12.0	36.0	36.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	15	10	5	5
Ped. Right-Left Flow Rate (p/h)	15	13	5	5
Ped. R. Sidewalk Flow Rate (p/h)	5	10	23	30
Veh. Perm. L. Flow in Walk (v/h)	0	5	8	5
Veh. Perm. R. Flow in Walk (v/h)	5	0	26	2
Veh. RTOR Flow in Walk (v/h)	2	0	12	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	273.7	288.4	223.7	175.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	567.6	741.0	3828.9	2936.0
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	33.8	33.8	16.2	16.2
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.33	2.34	1.73	1.45
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	62	79	5	5
Total Flow Rate (veh/h)	368	456	18	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.0	11.0	44.0	45.7
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	4.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	7.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	No
On Street Parking?	Yes	Yes	Yes	No
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	7.8	7.9	23.5	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.34	1.25	1.62	0.00
Bicycle LOS	A	A	B	

Atlantic Ave Road Diet
Existing Conditions Analysis

135: Fredericksburg Ave & Atlantic Ave
Timing Plan: AM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	300	5	5	365	16	6	5	5	11	5	8
Future Volume (veh/h)	5	300	5	5	365	16	6	5	5	11	5	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1850	1489	1561	1850	1547	926	1128	1128	1850	1201	1850	1489
Adj Flow Rate, veh/h	6	366	6	6	445	20	7	6	6	13	6	10
Peak Hour Factor	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
Percent Heavy Veh, %	0	25	20	0	21	64	50	50	0	45	0	25
Cap, veh/h	60	1582	26	57	1596	71	155	108	89	248	120	155
Arrive On Green	0.57	0.57	0.57	0.57	0.57	0.57	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	12	2769	45	8	2794	124	295	377	310	608	421	542
Grp Volume(v), veh/h	198	0	180	248	0	223	19	0	0	29	0	0
Grp Sat Flow(s),veh/h/ln	1478	0	1347	1540	0	1385	983	0	0	1571	0	0
Q Serve(g_s), s	0.0	0.0	4.6	0.0	0.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	4.6	0.0	4.6	5.7	0.0	5.8	0.9	0.0	0.0	0.8	0.0	0.0
Prop In Lane	0.03		0.03	0.02		0.09	0.37		0.32	0.45		0.34
Lane Grp Cap(c), veh/h	898	0	770	933	0	792	351	0	0	523	0	0
V/C Ratio(X)	0.22	0.00	0.23	0.27	0.00	0.28	0.05	0.00	0.00	0.06	0.00	0.00
Avail Cap(c_a), veh/h	898	0	770	933	0	792	351	0	0	523	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.4	0.0	7.4	7.7	0.0	7.7	18.2	0.0	0.0	18.2	0.0	0.0
Incr Delay (d2), s/veh	0.6	0.0	0.7	0.7	0.0	0.9	0.3	0.0	0.0	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	1.3	1.8	0.0	1.6	0.2	0.0	0.0	0.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.0	0.0	8.1	8.4	0.0	8.6	18.5	0.0	0.0	18.4	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		378			471			19			29	
Approach Delay, s/veh		8.1			8.4			18.5			18.4	
Approach LOS		A			A			B			B	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		45.0		25.0		45.0		25.0				
Change Period (Y+Rc), s		5.0		5.0		5.0		5.0				
Max Green Setting (Gmax), s		40.0		20.0		40.0		20.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				8.8								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	22.0	22.4
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	23.0	23.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	30	9	5	6
Ped. Right-Left Flow Rate (p/h)	25	9	5	6
Ped. R. Sidewalk Flow Rate (p/h)	12	10	18	55
Veh. Perm. L. Flow in Walk (v/h)	11	6	0	5
Veh. Perm. R. Flow in Walk (v/h)	5	8	0	5
Veh. RTOR Flow in Walk (v/h)	2	5	0	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	158.1	316.3	275.5	98.4
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	180.0	553.4	1643.0	1356.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	24.9	24.9	15.8	15.8
Pedestrian Compliance Code	Fair	Fair	Fair	Fair
Pedestrian Crosswalk Score	2.34	2.34	1.70	1.72
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	61	79	5	5
Total Flow Rate (veh/h)	378	471	19	29
Effct. Green for Bike (s)	40.0	40.0	20.0	20.0
Cross Street Width (ft)	22.0	22.4	44.4	44.0
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1143	1143	571	571
Bicycle Delay (s/bike)	6.6	6.7	17.9	17.9
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.35	1.43	1.41	1.42
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

100: Coolidge Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	292	5	5	326	14	5	10	5	11	5	11
Future Volume (veh/h)	7	292	5	5	326	14	5	10	5	11	5	11
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1648	1677	407	1850	1662	1547	407	696	407	1720	407	1850
Adj Flow Rate, veh/h	7	311	5	5	347	15	5	11	5	12	5	12
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	14	12	100	0	13	21	100	80	100	9	100	0
Cap, veh/h	59	1891	30	49	1835	78	82	107	44	93	22	41
Arrive On Green	0.61	0.61	0.61	1.00	1.00	1.00	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	28	3094	49	13	3002	128	113	370	151	125	76	142
Grp Volume(v), veh/h	169	0	154	193	0	174	21	0	0	29	0	0
Grp Sat Flow(s),veh/h/ln	1655	0	1517	1653	0	1490	634	0	0	343	0	0
Q Serve(g_s), s	0.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	0.0	0.0
Cycle Q Clear(g_c), s	3.9	0.0	4.0	0.0	0.0	0.0	2.1	0.0	0.0	5.6	0.0	0.0
Prop In Lane	0.04		0.03	0.03		0.09	0.24		0.24	0.41		0.41
Lane Grp Cap(c), veh/h	1053	0	927	1051	0	910	233	0	0	156	0	0
V/C Ratio(X)	0.16	0.00	0.17	0.18	0.00	0.19	0.09	0.00	0.00	0.19	0.00	0.00
Avail Cap(c_a), veh/h	1053	0	927	1051	0	910	233	0	0	156	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.6	0.0	7.6	0.0	0.0	0.0	23.5	0.0	0.0	24.7	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.4	0.4	0.0	0.5	0.8	0.0	0.0	2.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	1.3	0.1	0.0	0.1	0.4	0.0	0.0	0.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.9	0.0	8.0	0.4	0.0	0.5	24.3	0.0	0.0	27.3	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		323			367			21			29	
Approach Delay, s/veh		7.9			0.4			24.3			27.3	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				5.4								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	21	11	24	7
Ped. Right-Left Flow Rate (p/h)	20	11	24	6
Ped. R. Sidewalk Flow Rate (p/h)	13	48	22	41
Veh. Perm. L. Flow in Walk (v/h)	11	5	7	5
Veh. Perm. R. Flow in Walk (v/h)	5	11	14	5
Veh. RTOR Flow in Walk (v/h)	2	4	9	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	109.2	147.8	125.4	125.1
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	186.9	349.2	121.1	471.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.32	2.31	1.75	1.75
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	33	40	8	5
Total Flow Rate (veh/h)	323	367	21	29
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.1	22.1	44.1	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	6.9	6.9	22.8	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.31	1.34	1.41	1.42
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

105: Atlantic Ave & Washington Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	355	5	7	369	73	5	11	11	25	5	9
Future Volume (veh/h)	24	355	5	7	369	73	5	11	11	25	5	9
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1850	1677	739	1648	1677	1706	1850	667	1056	1677	407	1691
Adj Flow Rate, veh/h	26	378	5	7	393	78	5	12	12	27	5	10
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	12	77	14	12	10	0	82	55	12	100	11
Cap, veh/h	126	1699	22	49	1522	296	65	80	69	123	14	22
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.28	0.28	0.28	0.28	0.28	0.28
Sat Flow, veh/h	138	2886	38	14	2585	503	67	286	249	205	51	80
Grp Volume(v), veh/h	209	0	200	255	0	223	29	0	0	42	0	0
Grp Sat Flow(s),veh/h/ln	1542	0	1519	1666	0	1435	602	0	0	336	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	3.2	0.0	0.0	8.8	0.0	0.0
Prop In Lane	0.12		0.03	0.03		0.35	0.17		0.41	0.64		0.24
Lane Grp Cap(c), veh/h	953	0	895	1022	0	845	214	0	0	159	0	0
V/C Ratio(X)	0.22	0.00	0.22	0.25	0.00	0.26	0.14	0.00	0.00	0.26	0.00	0.00
Avail Cap(c_a), veh/h	953	0	895	1022	0	845	214	0	0	159	0	0
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	24.6	0.0	0.0	26.5	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.6	0.6	0.0	0.8	1.3	0.0	0.0	4.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	0.2	0.0	0.2	0.5	0.0	0.0	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.5	0.0	0.6	0.6	0.0	0.8	25.9	0.0	0.0	30.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		409			478			29			42	
Approach Delay, s/veh		0.6			0.7			25.9			30.5	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0		31.0				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		53.0		25.0		53.0		25.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				2.7								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	20	20	25	20
Ped. Right-Left Flow Rate (p/h)	27	14	28	25
Ped. R. Sidewalk Flow Rate (p/h)	45	53	34	47
Veh. Perm. L. Flow in Walk (v/h)	25	5	24	7
Veh. Perm. R. Flow in Walk (v/h)	11	9	73	5
Veh. RTOR Flow in Walk (v/h)	7	5	25	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	74.5	87.7	90.7	79.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	158.2	226.2	76.8	133.9
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.38	2.36	1.81	1.80
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	38	45	5	5
Total Flow Rate (veh/h)	409	478	29	42
Effct. Green for Bike (s)	53.0	53.0	25.0	25.0
Cross Street Width (ft)	22.1	22.2	44.2	44.3
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	556
Bicycle Delay (s/bike)	7.8	7.8	23.5	23.5
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.38	1.44	1.43	1.45
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

110: Cedar Grove Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	11	396	7	12	439	18	5	7	12	13	9	8
Future Volume (veh/h)	11	396	7	12	439	18	5	7	12	13	9	8
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1850	1662	1850	1735	1662	1533	1850	1027	1605	1735	1691	1850
Adj Flow Rate, veh/h	11	412	7	12	457	19	5	7	12	14	9	8
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	13	0	8	13	22	0	57	17	8	11	0
Cap, veh/h	64	1859	31	63	1813	74	87	92	131	227	141	108
Arrive On Green	1.00	1.00	1.00	0.61	0.61	0.61	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	37	3042	51	34	2967	122	134	319	453	584	488	373
Grp Volume(v), veh/h	224	0	206	255	0	233	24	0	0	31	0	0
Grp Sat Flow(s),veh/h/ln	1626	0	1504	1632	0	1491	905	0	0	1445	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	6.4	0.0	6.5	1.7	0.0	0.0	1.3	0.0	0.0
Prop In Lane	0.05		0.03	0.05		0.08	0.21		0.50	0.45		0.26
Lane Grp Cap(c), veh/h	1036	0	919	1039	0	911	310	0	0	475	0	0
V/C Ratio(X)	0.22	0.00	0.22	0.25	0.00	0.26	0.08	0.00	0.00	0.07	0.00	0.00
Avail Cap(c_a), veh/h	1036	0	919	1039	0	911	310	0	0	475	0	0
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	8.0	0.0	8.1	23.4	0.0	0.0	23.2	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.6	0.6	0.0	0.7	0.5	0.0	0.0	0.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	2.2	0.0	2.1	0.4	0.0	0.0	0.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.5	0.0	0.6	8.6	0.0	8.7	23.8	0.0	0.0	23.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		430			488			24			31	
Approach Delay, s/veh		0.5			8.7			23.8			23.5	
Approach LOS		A			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				5.9								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	60.0	60.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	10	15	10	30
Ped. Right-Left Flow Rate (p/h)	13	15	7	28
Ped. R. Sidewalk Flow Rate (p/h)	58	17	30	23
Veh. Perm. L. Flow in Walk (v/h)	13	5	11	12
Veh. Perm. R. Flow in Walk (v/h)	5	13	18	7
Veh. RTOR Flow in Walk (v/h)	2	7	10	3
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	123.0	105.7	157.1	109.6
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	328.2	251.4	334.1	100.7
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.37	2.37	1.77	1.77
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	46	50	14	5
Total Flow Rate (veh/h)	430	488	24	31
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.0	22.1	44.0	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	7.0	7.0	22.9	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.39	1.44	1.41	1.43
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

115: Mansfield Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	373	5	5	399	15	5	5	5	0	0	0
Future Volume (veh/h)	8	373	5	5	399	15	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1850	1677	1374	1850	1735	1374	1128	407	1850			
Adj Flow Rate, veh/h	8	389	5	5	416	16	5	5	5			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	0	12	33	0	8	33	50	100	0			
Cap, veh/h	57	1900	24	47	1927	73	36	36	36			
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.29	0.29	0.29			
Sat Flow, veh/h	25	3109	40	10	3154	120	126	126	126			
Grp Volume(v), veh/h	210	0	192	230	0	207	15	0	0			
Grp Sat Flow(s),veh/h/ln	1655	0	1519	1727	0	1557	378	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0			
Prop In Lane	0.04		0.03	0.02		0.08	0.33		0.33			
Lane Grp Cap(c), veh/h	1053	0	928	1096	0	951	109	0	0			
V/C Ratio(X)	0.20	0.00	0.21	0.21	0.00	0.22	0.14	0.00	0.00			
Avail Cap(c_a), veh/h	1053	0	928	1096	0	951	109	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.7	0.0	0.0			
Incr Delay (d2), s/veh	0.4	0.0	0.5	0.4	0.0	0.5	2.6	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.4	0.0	0.5	0.4	0.0	0.5	26.3	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		402			437			15				
Approach Delay, s/veh		0.5			0.5			26.3				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0						
Change Period (Y+Rc), s		5.0		4.0		5.0						
Max Green Setting (Gmax), s		55.0		26.0		55.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay			0.9									
HCM 6th LOS			A									

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	5	5	5	5
Ped. Right-Left Flow Rate (p/h)	5	5	5	5
Ped. R. Sidewalk Flow Rate (p/h)	10	10	10	10
Veh. Perm. L. Flow in Walk (v/h)	5	5	8	5
Veh. Perm. R. Flow in Walk (v/h)	5	5	15	5
Veh. RTOR Flow in Walk (v/h)	2	2	5	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	420.6	420.6	420.6	420.6
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	776.1	776.1	583.1	613.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.34	2.34	1.75	1.46
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	37	32	5	7
Total Flow Rate (veh/h)	402	437	15	0
Effct. Green for Bike (s)	55.0	55.0	26.0	0.0
Cross Street Width (ft)	22.0	11.0	44.0	45.9
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	0
Bicycle Delay (s/bike)	6.9	6.9	22.8	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.37	1.23	1.40	0.00
Bicycle LOS	A	A	A	

Atlantic Ave Road Diet
Existing Conditions Analysis

120: Huntington Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	378	5	5	404	21	5	6	6	0	0	0
Future Volume (veh/h)	12	378	5	5	404	21	5	6	6	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1374	1720	768	1850	1706	1850	1850	1605	1605			
Adj Flow Rate, veh/h	12	394	5	5	421	22	5	6	6			
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96			
Percent Heavy Veh, %	33	9	75	0	10	0	0	17	17			
Cap, veh/h	69	1855	23	46	1799	93	122	146	146			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	46	3150	40	9	3055	158	438	525	525			
Grp Volume(v), veh/h	214	0	197	236	0	212	17	0	0			
Grp Sat Flow(s),veh/h/ln	1678	0	1558	1698	0	1524	1488	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	6.0	0.8	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	5.9	0.0	6.0	0.8	0.0	0.0			
Prop In Lane	0.06		0.03	0.02		0.10	0.29		0.35			
Lane Grp Cap(c), veh/h	1030	0	918	1041	0	897	413	0	0			
V/C Ratio(X)	0.21	0.00	0.21	0.23	0.00	0.24	0.04	0.00	0.00			
Avail Cap(c_a), veh/h	1030	0	918	1041	0	897	413	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	8.8	0.0	8.8	23.7	0.0	0.0			
Incr Delay (d2), s/veh	0.5	0.0	0.5	0.5	0.0	0.6	0.2	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.1	2.2	0.0	2.0	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.5	0.0	0.5	9.3	0.0	9.5	23.9	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		411			448			17				
Approach Delay, s/veh		0.5			9.4			23.9				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay			5.5									
HCM 6th LOS			A									

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	11.0	11.0	29.0	29.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	6	8	25	0
Ped. Right-Left Flow Rate (p/h)	6	8	26	0
Ped. R. Sidewalk Flow Rate (p/h)	17	51	16	12
Veh. Perm. L. Flow in Walk (v/h)	5	5	12	5
Veh. Perm. R. Flow in Walk (v/h)	6	5	21	5
Veh. RTOR Flow in Walk (v/h)	2	2	7	1
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	151.8	189.6	145.0	532.9
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	645.7	484.7	311.3	0.0
Crosswalk Circulation Code	A	A	A	-
Pedestrian Delay (s/p)	34.7	34.7	20.7	20.7
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.34	2.35	1.73	1.45
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	37	33	5	5
Total Flow Rate (veh/h)	411	448	17	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.2	11.1	44.1	44.5
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	7.7	7.7	23.5	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.38	1.24	1.40	0.00
Bicycle LOS	A	A	A	

						
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	61	411	345	36	42	39
Future Volume (veh/h)	61	411	345	36	42	39
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00			1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1677	1691	1706	1605	1749	1706
Adj Flow Rate, veh/h	66	442	371	39	45	42
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	12	11	10	17	7	10
Cap, veh/h	223	1462	1744	182	224	209
Arrive On Green	1.00	1.00	0.19	0.19	0.28	0.28
Sat Flow, veh/h	294	2560	3046	309	805	751
Grp Volume(v), veh/h	254	254	202	208	88	0
Grp Sat Flow(s),veh/h/ln	1314	1462	1620	1650	1574	0
Q Serve(g_s), s	1.7	0.0	9.4	9.5	3.9	0.0
Cycle Q Clear(g_c), s	11.3	0.0	9.4	9.5	3.9	0.0
Prop In Lane	0.26			0.19	0.51	0.48
Lane Grp Cap(c), veh/h	824	861	954	972	437	0
V/C Ratio(X)	0.31	0.29	0.21	0.21	0.20	0.00
Avail Cap(c_a), veh/h	824	861	954	972	437	0
HCM Platoon Ratio	2.00	2.00	0.33	0.33	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.2	0.0	18.7	18.7	24.9	0.0
Incr Delay (d2), s/veh	1.0	0.9	0.5	0.5	1.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.2	4.0	4.1	1.5	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	1.2	0.9	19.2	19.3	25.9	0.0
LnGrp LOS	A	A	B	B	C	A
Approach Vol, veh/h		508	410		88	
Approach Delay, s/veh		1.0	19.2		25.9	
Approach LOS		A	B		C	
Timer - Assigned Phs		2		4		6
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0
Change Period (Y+Rc), s		6.0		6.0		6.0
Max Green Setting (Gmax), s		53.0		25.0		53.0
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0
Green Ext Time (p_c), s		0.0		0.0		0.0
Intersection Summary						
HCM 6th Ctrl Delay			10.6			
HCM 6th LOS			B			
Notes						
User approved volume balancing among the lanes for turning movement.						

Approach	EB	WB	SB
Crosswalk Length (ft)	65.0	65.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2
Number of Right-Turn Islands	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	6	4	8
Effective Walk Time (s)	11.0	11.0	0.0
Right Corner Size A (ft)	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	20	7	8
Ped. Right-Left Flow Rate (p/h)	7	7	8
Ped. R. Sidewalk Flow Rate (p/h)	16	27	27
Veh. Perm. L. Flow in Walk (v/h)	42	61	0
Veh. Perm. R. Flow in Walk (v/h)	0	36	0
Veh. RTOR Flow in Walk (v/h)	0	15	0
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	218.3	215.7	167.6
Right Corner Quality of Service	A	A	A
Ped. Circulation Area (sq.ft)	273.5	485.7	0.0
Crosswalk Circulation Code	A	A	F
Pedestrian Delay (s/p)	34.7	34.7	45.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.41	2.46	1.82
Pedestrian Crosswalk LOS	B	B	B

Approach	EB	WB	SB
Bicycle Flow Rate (bike/h)	47	29	5
Total Flow Rate (veh/h)	508	410	87
Effct. Green for Bike (s)	53.0	53.0	25.0
Cross Street Width (ft)	44.0	22.0	44.0
Through Lanes Number	2	2	1
Through Lane Width (ft)	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556
Bicycle Delay (s/bike)	7.8	7.7	23.5
Bicycle Compliance	Good	Good	Fair
Bicycle LOS Score	1.79	1.38	1.52
Bicycle LOS	B	A	B

Atlantic Ave Road Diet
Existing Conditions Analysis

130: Douglass Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	428	5	5	415	30	5	5	5	0	0	0
Future Volume (veh/h)	32	428	5	5	415	30	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1533	1735	883	1128	1691	1706	1850	1850	1273			
Adj Flow Rate, veh/h	34	460	5	5	446	32	5	5	5			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	22	8	67	50	11	10	0	0	40			
Cap, veh/h	138	1746	19	45	1747	124	159	159	159			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	157	2964	32	7	2967	211	573	573	573			
Grp Volume(v), veh/h	253	0	246	255	0	228	15	0	0			
Grp Sat Flow(s),veh/h/ln	1580	0	1573	1684	0	1501	1718	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	6.6	0.6	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	6.6	0.0	6.6	0.6	0.0	0.0			
Prop In Lane	0.13		0.02	0.02		0.14	0.33		0.33			
Lane Grp Cap(c), veh/h	976	0	926	1033	0	884	477	0	0			
V/C Ratio(X)	0.26	0.00	0.27	0.25	0.00	0.26	0.03	0.00	0.00			
Avail Cap(c_a), veh/h	976	0	926	1033	0	884	477	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	9.0	0.0	9.0	23.7	0.0	0.0			
Incr Delay (d2), s/veh	0.6	0.0	0.7	0.6	0.0	0.7	0.1	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.2	2.4	0.0	2.2	0.2	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.6	0.0	0.7	9.5	0.0	9.7	23.8	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		499			483			15				
Approach Delay, s/veh		0.7			9.6			23.8				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				5.3								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	12.0	12.0	36.0	36.0
Right Corner Size A (ft)	5.0	5.0	5.0	5.0
Right Corner Size B (ft)	5.0	5.0	5.0	5.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	3.50	3.50	3.50	3.50
Ped. Left-Right Flow Rate (p/h)	9	10	10	5
Ped. Right-Left Flow Rate (p/h)	9	13	16	5
Ped. R. Sidewalk Flow Rate (p/h)	9	26	23	18
Veh. Perm. L. Flow in Walk (v/h)	5	0	32	5
Veh. Perm. R. Flow in Walk (v/h)	5	0	30	5
Veh. RTOR Flow in Walk (v/h)	2	0	7	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	48.4	42.4	33.4	58.0
Right Corner Quality of Service	B	B	C	B
Ped. Circulation Area (sq.ft)	470.4	372.7	743.9	2061.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	33.8	33.8	16.2	16.2
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.37	2.36	1.75	1.47
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	31	41	5	5
Total Flow Rate (veh/h)	499	483	15	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.0	11.0	44.0	45.7
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	4.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	7.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	7.7	7.8	23.5	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.45	1.27	1.61	0.00
Bicycle LOS	A	A	B	

Atlantic Ave Road Diet
Existing Conditions Analysis

135: Fredericksburg Ave & Atlantic Ave
Timing Plan: PM Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	5	426	6	5	431	14	5	5	5	11	5	5
Future Volume (veh/h)	5	426	6	5	431	14	5	5	5	11	5	5
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1850	1720	883	1850	1691	1749	1850	407	1850	1850	407	1850
Adj Flow Rate, veh/h	5	453	6	5	459	15	5	5	5	12	5	5
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	9	67	0	11	7	0	100	0	0	100	0
Cap, veh/h	57	1841	24	56	1771	57	95	41	34	128	27	22
Arrive On Green	0.57	0.57	0.57	0.57	0.57	0.57	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	7	3222	42	7	3099	100	94	144	119	170	96	78
Grp Volume(v), veh/h	243	0	221	252	0	227	15	0	0	22	0	0
Grp Sat Flow(s),veh/h/ln	1713	0	1558	1685	0	1521	358	0	0	344	0	0
Q Serve(g_s), s	0.0	0.0	5.0	0.0	0.0	5.3	0.0	0.0	0.0	1.1	0.0	0.0
Cycle Q Clear(g_c), s	4.9	0.0	5.0	5.2	0.0	5.3	2.0	0.0	0.0	3.1	0.0	0.0
Prop In Lane	0.02		0.03	0.02		0.07	0.33		0.33	0.55		0.23
Lane Grp Cap(c), veh/h	1031	0	890	1015	0	869	171	0	0	178	0	0
V/C Ratio(X)	0.24	0.00	0.25	0.25	0.00	0.26	0.09	0.00	0.00	0.12	0.00	0.00
Avail Cap(c_a), veh/h	1031	0	890	1015	0	869	171	0	0	178	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.5	0.0	7.5	7.6	0.0	7.6	18.6	0.0	0.0	18.9	0.0	0.0
Incr Delay (d2), s/veh	0.5	0.0	0.7	0.6	0.0	0.7	1.0	0.0	0.0	1.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	1.6	1.8	0.0	1.6	0.2	0.0	0.0	0.3	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.0	0.0	8.2	8.1	0.0	8.3	19.6	0.0	0.0	20.4	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	C	A	A
Approach Vol, veh/h		464			479			15			22	
Approach Delay, s/veh		8.1			8.2			19.6			20.4	
Approach LOS		A			A			B			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		45.0		25.0		45.0		25.0				
Change Period (Y+Rc), s		5.0		5.0		5.0		5.0				
Max Green Setting (Gmax), s		40.0		20.0		40.0		20.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay			8.6									
HCM 6th LOS			A									

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	23.0	23.0
Right Corner Size A (ft)	6.0	6.0	6.0	6.0
Right Corner Size B (ft)	6.0	6.0	6.0	6.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	14.50	14.50	14.50	14.50
Ped. Left-Right Flow Rate (p/h)	10	10	5	5
Ped. Right-Left Flow Rate (p/h)	11	17	5	5
Ped. R. Sidewalk Flow Rate (p/h)	10	10	27	21
Veh. Perm. L. Flow in Walk (v/h)	11	5	5	5
Veh. Perm. R. Flow in Walk (v/h)	5	5	14	6
Veh. RTOR Flow in Walk (v/h)	2	2	7	3
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	307.5	264.3	197.5	243.1
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	473.2	370.2	1668.5	1687.1
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	24.9	24.9	15.8	15.8
Pedestrian Compliance Code	Fair	Fair	Fair	Fair
Pedestrian Crosswalk Score	2.36	2.36	1.71	1.72
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	33	36	5	0
Total Flow Rate (veh/h)	464	479	15	22
Effct. Green for Bike (s)	40.0	40.0	20.0	20.0
Cross Street Width (ft)	22.0	22.4	44.4	44.0
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1143	1143	571	571
Bicycle Delay (s/bike)	6.5	6.5	17.9	17.9
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.42	1.44	1.41	1.41
Bicycle LOS	A	A	A	A

Atlantic Ave Road Diet
Existing Conditions Analysis

100: Coolidge Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	492	9	6	479	30	5	8	5	24	6	18
Future Volume (veh/h)	13	492	9	6	479	30	5	8	5	24	6	18
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1518	1244	883	1850	1316	1561	407	1128	1850	1850	1850	1201
Adj Flow Rate, veh/h	15	559	10	7	544	34	6	9	6	27	7	20
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	23	42	67	0	37	20	100	50	0	0	0	45
Cap, veh/h	59	1386	25	46	1422	88	118	141	83	263	77	164
Arrive On Green	0.61	0.61	0.61	1.00	1.00	1.00	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	28	2269	40	8	2327	144	229	489	287	701	266	569
Grp Volume(v), veh/h	304	0	280	308	0	277	21	0	0	54	0	0
Grp Sat Flow(s),veh/h/ln	1211	0	1125	1307	0	1172	1004	0	0	1536	0	0
Q Serve(g_s), s	0.0	0.0	11.6	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	11.3	0.0	11.6	0.0	0.0	0.0	1.3	0.0	0.0	2.1	0.0	0.0
Prop In Lane	0.05		0.04	0.02		0.12	0.29		0.29	0.50		0.37
Lane Grp Cap(c), veh/h	782	0	687	840	0	716	342	0	0	504	0	0
V/C Ratio(X)	0.39	0.00	0.41	0.37	0.00	0.39	0.06	0.00	0.00	0.11	0.00	0.00
Avail Cap(c_a), veh/h	782	0	687	840	0	716	342	0	0	504	0	0
HCM Platoon Ratio	1.00	1.00	1.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.0	0.0	9.1	0.0	0.0	0.0	23.2	0.0	0.0	23.5	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	1.8	1.2	0.0	1.6	0.3	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	0.0	2.9	0.3	0.0	0.3	0.4	0.0	0.0	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.5	0.0	10.9	1.2	0.0	1.6	23.6	0.0	0.0	23.9	0.0	0.0
LnGrp LOS	B	A	B	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		584			585			21			54	
Approach Delay, s/veh		10.6			1.4			23.6			23.9	
Approach LOS		B			A			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				7.1								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	65.0	65.0	25.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	5.0	5.0	5.0	5.0
Right Corner Size B (ft)	5.0	5.0	5.0	5.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	3.50	3.50	3.50	3.50
Ped. Left-Right Flow Rate (p/h)	50	30	22	8
Ped. Right-Left Flow Rate (p/h)	63	31	22	9
Ped. R. Sidewalk Flow Rate (p/h)	17	44	61	113
Veh. Perm. L. Flow in Walk (v/h)	24	5	13	6
Veh. Perm. R. Flow in Walk (v/h)	5	18	30	9
Veh. RTOR Flow in Walk (v/h)	1	10	15	4
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	-3.1	12.0	5.4	2.4
Right Corner Quality of Service	F	E	F	F
Ped. Circulation Area (sq.ft)	65.9	124.0	120.8	353.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.45	2.44	1.78	1.78
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	210	180	5	8
Total Flow Rate (veh/h)	584	585	21	54
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.1	22.1	44.1	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	4.0
Striped Parking Lane Width (ft)	7.0	7.0	7.0	7.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	7.6	7.5	22.8	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.74	1.74	1.63	1.68
Bicycle LOS	B	B	B	B

Atlantic Ave Road Diet
Existing Conditions Analysis

105: Atlantic Ave & Washington Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	39	533	10	7	510	103	8	9	6	35	12	13
Future Volume (veh/h)	39	533	10	7	510	103	8	9	6	35	12	13
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1634	1345	984	1850	1345	1475	1850	1533	1128	1186	407	1287
Adj Flow Rate, veh/h	41	567	11	7	543	110	9	10	6	37	13	14
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	15	35	60	0	35	26	0	22	50	46	100	39
Cap, veh/h	113	1325	25	45	1217	243	165	167	87	114	23	21
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.28	0.28	0.28	0.28	0.28	0.28
Sat Flow, veh/h	115	2250	43	7	2066	413	397	600	315	182	82	74
Grp Volume(v), veh/h	310	0	309	354	0	306	25	0	0	64	0	0
Grp Sat Flow(s),veh/h/ln	1192	0	1216	1337	0	1149	1312	0	0	338	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.6	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	1.1	0.0	0.0	15.0	0.0	0.0
Prop In Lane	0.13		0.04	0.02		0.36	0.36		0.24	0.58		0.22
Lane Grp Cap(c), veh/h	747	0	716	828	0	677	419	0	0	157	0	0
V/C Ratio(X)	0.41	0.00	0.43	0.43	0.00	0.45	0.06	0.00	0.00	0.41	0.00	0.00
Avail Cap(c_a), veh/h	747	0	716	828	0	677	419	0	0	157	0	0
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.9	0.0	0.0	28.8	0.0	0.0
Incr Delay (d2), s/veh	1.7	0.0	1.9	1.6	0.0	2.2	0.3	0.0	0.0	7.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	0.0	0.4	0.4	0.0	0.4	0.4	0.0	0.0	1.5	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	1.7	0.0	1.9	1.6	0.0	2.2	24.2	0.0	0.0	36.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	D	A	A
Approach Vol, veh/h		619			660			25			64	
Approach Delay, s/veh		1.8			1.9			24.2			36.5	
Approach LOS		A			A			C			D	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0		31.0				
Change Period (Y+Rc), s		6.0		6.0		6.0		6.0				
Max Green Setting (Gmax), s		53.0		25.0		53.0		25.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				3.9								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	40.0	40.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	5.0	5.0	5.0	5.0
Right Corner Size B (ft)	5.0	5.0	5.0	5.0
Right Corner Curb Radius (ft)	10.0	10.0	10.0	10.0
Right Corner Total Area (sq.ft)	3.50	3.50	3.50	3.50
Ped. Left-Right Flow Rate (p/h)	60	50	40	50
Ped. Right-Left Flow Rate (p/h)	65	49	30	40
Ped. R. Sidewalk Flow Rate (p/h)	90	70	99	125
Veh. Perm. L. Flow in Walk (v/h)	35	8	39	7
Veh. Perm. R. Flow in Walk (v/h)	6	13	103	10
Veh. RTOR Flow in Walk (v/h)	2	7	26	4
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	-4.9	-4.4	-1.2	-3.5
Right Corner Quality of Service	F	F	F	F
Ped. Circulation Area (sq.ft)	59.4	77.3	68.8	75.7
Crosswalk Circulation Code	B	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.47	2.46	1.83	1.84
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	195	202	5	33
Total Flow Rate (veh/h)	619	660	25	64
Effct. Green for Bike (s)	53.0	53.0	25.0	25.0
Cross Street Width (ft)	22.1	22.2	44.2	44.3
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	4.0
Striped Parking Lane Width (ft)	7.0	7.0	7.0	7.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	556
Bicycle Delay (s/bike)	8.4	8.5	23.5	23.9
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.77	1.80	1.63	1.70
Bicycle LOS	B	B	B	B

Atlantic Ave Road Diet
Existing Conditions Analysis

110: Cedar Grove Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	568	15	13	579	26	5	5	18	24	10	19
Future Volume (veh/h)	12	568	15	13	579	26	5	5	18	24	10	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1720	1388	1460	1518	1359	1792	1850	1561	1605	1792	1850	1460
Adj Flow Rate, veh/h	14	645	17	15	658	30	6	6	20	27	11	22
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	9	32	27	23	34	4	0	20	17	4	0	27
Cap, veh/h	55	1541	40	55	1477	67	97	97	244	238	103	164
Arrive On Green	1.00	1.00	1.00	0.61	0.61	0.61	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	21	2522	66	22	2416	109	172	336	846	624	358	569
Grp Volume(v), veh/h	352	0	324	367	0	336	32	0	0	60	0	0
Grp Sat Flow(s),veh/h/ln	1358	0	1251	1330	0	1217	1353	0	0	1551	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.0	0.0	0.0	13.0	0.0	13.3	1.5	0.0	0.0	2.3	0.0	0.0
Prop In Lane	0.04		0.05	0.04		0.09	0.19		0.62	0.45		0.37
Lane Grp Cap(c), veh/h	871	0	765	854	0	744	439	0	0	506	0	0
V/C Ratio(X)	0.40	0.00	0.42	0.43	0.00	0.45	0.07	0.00	0.00	0.12	0.00	0.00
Avail Cap(c_a), veh/h	871	0	765	854	0	744	439	0	0	506	0	0
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	0.0	0.0	0.0	9.3	0.0	9.4	23.3	0.0	0.0	23.6	0.0	0.0
Incr Delay (d2), s/veh	1.4	0.0	1.7	1.6	0.0	2.0	0.3	0.0	0.0	0.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.4	3.8	0.0	3.6	0.5	0.0	0.0	1.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	1.4	0.0	1.7	10.9	0.0	11.4	23.6	0.0	0.0	24.0	0.0	0.0
LnGrp LOS	A	A	A	B	A	B	C	A	A	C	A	A
Approach Vol, veh/h		676			703			32			60	
Approach Delay, s/veh		1.5			11.1			23.6			24.0	
Approach LOS		A			B			C			C	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0		30.0				
Change Period (Y+Rc), s		5.0		4.0		5.0		4.0				
Max Green Setting (Gmax), s		55.0		26.0		55.0		26.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				7.5								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	38.0	38.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	8	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	50	30	20	10
Ped. Right-Left Flow Rate (p/h)	50	28	17	11
Ped. R. Sidewalk Flow Rate (p/h)	21	37	58	100
Veh. Perm. L. Flow in Walk (v/h)	24	5	12	13
Veh. Perm. R. Flow in Walk (v/h)	18	19	26	15
Veh. RTOR Flow in Walk (v/h)	10	10	15	10
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	69.8	107.0	78.6	51.6
Right Corner Quality of Service	A	A	A	B
Ped. Circulation Area (sq.ft)	74.4	132.1	174.0	315.7
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.51	2.49	1.79	1.80
Pedestrian Crosswalk LOS	C	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	182	194	5	5
Total Flow Rate (veh/h)	676	703	32	60
Effct. Green for Bike (s)	55.0	55.0	26.0	26.0
Cross Street Width (ft)	22.0	22.1	44.0	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	4.0
Striped Parking Lane Width (ft)	7.0	7.0	7.0	7.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1222	1222	578	578
Bicycle Delay (s/bike)	7.5	7.5	22.8	22.8
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.81	1.83	1.64	1.69
Bicycle LOS	B	B	B	B

Atlantic Ave Road Diet
Existing Conditions Analysis

115: Mansfield Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	10	428	6	6	534	26	5	5	7	0	0	0
Future Volume (veh/h)	10	428	6	6	534	26	5	5	7	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1850	1403	1605	1850	1489	1735	1850	1850	1230			
Adj Flow Rate, veh/h	11	486	7	7	607	30	6	6	8			
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88			
Percent Heavy Veh, %	0	31	17	0	25	8	0	0	43			
Cap, veh/h	56	1577	22	46	1634	80	148	148	197			
Arrive On Green	1.00	1.00	1.00	1.00	1.00	1.00	0.29	0.29	0.29			
Sat Flow, veh/h	24	2581	37	8	2674	131	511	511	681			
Grp Volume(v), veh/h	262	0	242	339	0	305	20	0	0			
Grp Sat Flow(s),veh/h/ln	1372	0	1270	1481	0	1332	1702	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0			
Prop In Lane	0.04		0.03	0.02		0.10	0.30		0.40			
Lane Grp Cap(c), veh/h	880	0	776	946	0	814	492	0	0			
V/C Ratio(X)	0.30	0.00	0.31	0.36	0.00	0.37	0.04	0.00	0.00			
Avail Cap(c_a), veh/h	880	0	776	946	0	814	492	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	2.00	2.00	2.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	23.0	0.0	0.0			
Incr Delay (d2), s/veh	0.9	0.0	1.0	1.1	0.0	1.3	0.2	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.2	0.3	0.0	0.3	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.9	0.0	1.0	1.1	0.0	1.3	23.2	0.0	0.0			
LnGrp LOS	A	A	A	A	A	A	C	A	A			
Approach Vol, veh/h		504			644			20				
Approach Delay, s/veh		1.0			1.2			23.2				
Approach LOS		A			A			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		60.0		30.0		60.0						
Change Period (Y+Rc), s		5.0		4.0		5.0						
Max Green Setting (Gmax), s		55.0		26.0		55.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay			1.5									
HCM 6th LOS			A									

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	30.0	25.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	11.0	11.0	11.0	11.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	20	19	3	5
Ped. Right-Left Flow Rate (p/h)	23	19	2	4
Ped. R. Sidewalk Flow Rate (p/h)	9	5	38	43
Veh. Perm. L. Flow in Walk (v/h)	7	5	26	6
Veh. Perm. R. Flow in Walk (v/h)	0	0	10	6
Veh. RTOR Flow in Walk (v/h)	0	0	5	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	226.9	250.3	162.3	137.0
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	182.6	207.3	1197.3	676.3
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	34.7	34.7
Pedestrian Compliance Code	Poor	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.41	2.42	1.78	1.48
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	126	128	5	0
Total Flow Rate (veh/h)	504	644	20	0
Effct. Green for Bike (s)	55.0	55.0	26.0	0.0
Cross Street Width (ft)	22.0	11.0	44.0	45.9
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	0.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	0.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	No
On Street Parking?	Yes	Yes	Yes	No
Bicycle Lane Capacity (bike/h)	1222	1222	578	0
Bicycle Delay (s/bike)	7.3	7.3	22.8	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.67	1.62	1.62	0.00
Bicycle LOS	B	B	B	

Atlantic Ave Road Diet
Existing Conditions Analysis

120: Huntington Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	443	5	11	532	35	5	5	11	0	0	0
Future Volume (veh/h)	8	443	5	11	532	35	5	5	11	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	0.89		0.65	0.82		0.65	1.00		0.68			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1648	1475	1850	1331	1489	1691	1850	1720	1605			
Adj Flow Rate, veh/h	9	482	5	12	578	38	5	5	12			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	14	26	0	36	25	11	0	9	17			
Cap, veh/h	52	1603	16	52	1476	95	77	77	185			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	18	2722	28	18	2507	162	277	277	665			
Grp Volume(v), veh/h	260	0	236	341	0	287	22	0	0			
Grp Sat Flow(s),veh/h/ln	1448	0	1319	1463	0	1224	1219	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	11.4	1.2	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	11.0	0.0	11.4	1.2	0.0	0.0			
Prop In Lane	0.03		0.02	0.04		0.13	0.23		0.55			
Lane Grp Cap(c), veh/h	894	0	777	903	0	721	339	0	0			
V/C Ratio(X)	0.29	0.00	0.30	0.38	0.00	0.40	0.06	0.00	0.00			
Avail Cap(c_a), veh/h	894	0	777	903	0	721	339	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	9.9	0.0	9.9	23.9	0.0	0.0			
Incr Delay (d2), s/veh	0.8	0.0	1.0	1.2	0.0	1.6	0.4	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.2	3.6	0.0	3.1	0.4	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.8	0.0	1.0	11.1	0.0	11.6	24.3	0.0	0.0			
LnGrp LOS	A	A	A	B	A	B	C	A	A			
Approach Vol, veh/h		496			628			22				
Approach Delay, s/veh		0.9			11.3			24.3				
Approach LOS		A			B			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				7.1								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	27.0	27.0
Crosswalk Width (ft)	6.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	11.0	11.0	29.0	29.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	30	25	14	8
Ped. Right-Left Flow Rate (p/h)	31	24	15	7
Ped. R. Sidewalk Flow Rate (p/h)	15	29	49	61
Veh. Perm. L. Flow in Walk (v/h)	0	5	8	11
Veh. Perm. R. Flow in Walk (v/h)	11	0	35	8
Veh. RTOR Flow in Walk (v/h)	7	0	22	4
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	117.6	137.8	99.1	91.8
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	127.7	160.5	557.7	1116.5
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	34.7	34.7	20.7	20.7
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.40	2.41	1.76	1.47
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	109	132	18	0
Total Flow Rate (veh/h)	496	628	22	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.2	11.1	44.1	44.5
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	4.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	No
On Street Parking?	Yes	Yes	Yes	No
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	8.0	8.1	23.7	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.67	1.60	1.63	0.00
Bicycle LOS	B	B	B	

						
Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		 	 		 	
Traffic Volume (veh/h)	53	405	411	62	62	74
Future Volume (veh/h)	53	405	411	62	62	74
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1763	1518	1590	1460	1778	1576
Adj Flow Rate, veh/h	57	435	442	67	67	80
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	6	23	18	27	5	19
Cap, veh/h	176	1300	1550	234	200	238
Arrive On Green	1.00	1.00	0.19	0.19	0.28	0.28
Sat Flow, veh/h	215	2276	2712	397	719	858
Grp Volume(v), veh/h	244	248	253	256	148	0
Grp Sat Flow(s),veh/h/ln	1110	1312	1511	1519	1587	0
Q Serve(g_s), s	3.3	0.0	12.8	13.0	6.7	0.0
Cycle Q Clear(g_c), s	16.3	0.0	12.8	13.0	6.7	0.0
Prop In Lane	0.23			0.26	0.45	0.54
Lane Grp Cap(c), veh/h	703	773	890	894	441	0
V/C Ratio(X)	0.35	0.32	0.28	0.29	0.34	0.00
Avail Cap(c_a), veh/h	703	773	890	894	441	0
HCM Platoon Ratio	2.00	2.00	0.33	0.33	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.6	0.0	20.1	20.1	25.9	0.0
Incr Delay (d2), s/veh	1.4	1.1	0.8	0.8	2.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.2	5.3	5.4	2.7	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	1.9	1.1	20.9	20.9	27.9	0.0
LnGrp LOS	A	A	C	C	C	A
Approach Vol, veh/h		492	509		148	
Approach Delay, s/veh		1.5	20.9		27.9	
Approach LOS		A	C		C	
Timer - Assigned Phs		2		4		6
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0
Change Period (Y+Rc), s		6.0		6.0		6.0
Max Green Setting (Gmax), s		53.0		25.0		53.0
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0
Green Ext Time (p_c), s		0.0		0.0		0.0
Intersection Summary						
HCM 6th Ctrl Delay			13.5			
HCM 6th LOS			B			
Notes						
User approved volume balancing among the lanes for turning movement.						

Approach	EB	WB	SB
Crosswalk Length (ft)	72.0	68.0	52.0
Crosswalk Width (ft)	12.0	12.0	12.0
Total Number of Lanes Crossed	4	4	2
Number of Right-Turn Islands	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	6	4	8
Effective Walk Time (s)	11.0	11.0	0.0
Right Corner Size A (ft)	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	24	24	30
Ped. Right-Left Flow Rate (p/h)	24	24	33
Ped. R. Sidewalk Flow Rate (p/h)	22	63	48
Veh. Perm. L. Flow in Walk (v/h)	62	0	53
Veh. Perm. R. Flow in Walk (v/h)	0	74	62
Veh. RTOR Flow in Walk (v/h)	0	66	32
85th percentile speed (mph)	30	30	30
Right Corner Area per Ped (sq.ft)	101.5	65.1	70.2
Right Corner Quality of Service	A	A	A
Ped. Circulation Area (sq.ft)	305.6	296.3	0.0
Crosswalk Circulation Code	A	A	F
Pedestrian Delay (s/p)	34.7	34.7	45.0
Pedestrian Compliance Code	Poor	Poor	Poor
Pedestrian Crosswalk Score	2.47	2.47	1.98
Pedestrian Crosswalk LOS	B	B	B

Approach	EB	WB	SB
Bicycle Flow Rate (bike/h)	85	89	15
Total Flow Rate (veh/h)	492	509	147
Effct. Green for Bike (s)	53.0	53.0	25.0
Cross Street Width (ft)	44.0	22.0	44.0
Through Lanes Number	2	2	1
Through Lane Width (ft)	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556
Bicycle Delay (s/bike)	7.9	8.0	23.6
Bicycle Compliance	Good	Good	Fair
Bicycle LOS Score	2.00	1.67	1.83
Bicycle LOS	B	B	B

Atlantic Ave Road Diet
Existing Conditions Analysis

130: Douglass Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	491	6	5	515	36	5	5	5	0	0	0
Future Volume (veh/h)	33	491	6	5	515	36	5	5	5	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1763	1662	739	1850	1619	1850	1850	1128	1128			
Adj Flow Rate, veh/h	35	528	6	5	554	39	5	5	5			
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93			
Percent Heavy Veh, %	6	13	77	0	16	0	0	50	50			
Cap, veh/h	121	1678	19	44	1676	117	97	97	97			
Arrive On Green	1.00	1.00	1.00	0.59	0.59	0.59	0.28	0.28	0.28			
Sat Flow, veh/h	130	2850	32	5	2847	199	349	349	349			
Grp Volume(v), veh/h	287	0	282	316	0	282	15	0	0			
Grp Sat Flow(s),veh/h/ln	1505	0	1507	1613	0	1438	1048	0	0			
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	9.0	0.9	0.0	0.0			
Cycle Q Clear(g_c), s	0.0	0.0	0.0	9.0	0.0	9.0	0.9	0.0	0.0			
Prop In Lane	0.12		0.02	0.02		0.14	0.33		0.33			
Lane Grp Cap(c), veh/h	931	0	887	991	0	847	291	0	0			
V/C Ratio(X)	0.31	0.00	0.32	0.32	0.00	0.33	0.05	0.00	0.00			
Avail Cap(c_a), veh/h	931	0	887	991	0	847	291	0	0			
HCM Platoon Ratio	2.00	2.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00			
Uniform Delay (d), s/veh	0.0	0.0	0.0	9.4	0.0	9.5	23.8	0.0	0.0			
Incr Delay (d2), s/veh	0.9	0.0	0.9	0.8	0.0	1.1	0.3	0.0	0.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.2	3.1	0.0	2.8	0.3	0.0	0.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.9	0.0	0.9	10.3	0.0	10.5	24.1	0.0	0.0			
LnGrp LOS	A	A	A	B	A	B	C	A	A			
Approach Vol, veh/h		569			598			15				
Approach Delay, s/veh		0.9			10.4			24.1				
Approach LOS		A			B			C				
Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		59.0		31.0		59.0						
Change Period (Y+Rc), s		6.0		6.0		6.0						
Max Green Setting (Gmax), s		53.0		25.0		53.0						
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0						
Green Ext Time (p_c), s		0.0		0.0		0.0						
Intersection Summary												
HCM 6th Ctrl Delay				6.0								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	70.0	70.0	33.0	25.0
Crosswalk Width (ft)	7.0	7.0	7.0	7.0
Total Number of Lanes Crossed	4	4	2	1
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	4	2	6
Effective Walk Time (s)	12.0	12.0	36.0	36.0
Right Corner Size A (ft)	8.0	8.0	8.0	8.0
Right Corner Size B (ft)	8.0	8.0	8.0	8.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	15.62	15.62	15.62	15.62
Ped. Left-Right Flow Rate (p/h)	25	11	40	25
Ped. Right-Left Flow Rate (p/h)	24	11	45	26
Ped. R. Sidewalk Flow Rate (p/h)	51	85	22	49
Veh. Perm. L. Flow in Walk (v/h)	0	5	33	5
Veh. Perm. R. Flow in Walk (v/h)	5	0	36	6
Veh. RTOR Flow in Walk (v/h)	3	0	13	2
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	66.1	82.8	98.3	83.7
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	204.4	456.8	287.9	467.2
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	33.8	33.8	16.2	16.2
Pedestrian Compliance Code	Poor	Poor	Fair	Fair
Pedestrian Crosswalk Score	2.41	2.41	1.76	1.48
Pedestrian Crosswalk LOS	B	B	B	A

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	85	107	14	0
Total Flow Rate (veh/h)	569	598	15	0
Effct. Green for Bike (s)	53.0	53.0	25.0	0.0
Cross Street Width (ft)	22.0	11.0	44.1	45.7
Through Lanes Number	2	2	1	0
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	4.0	4.0	4.0	4.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1178	1178	556	0
Bicycle Delay (s/bike)	7.9	8.0	23.6	0.0
Bicycle Compliance	Good	Good	Fair	
Bicycle LOS Score	1.72	1.58	1.62	0.00
Bicycle LOS	B	B	B	

Atlantic Ave Road Diet
Existing Conditions Analysis

135: Fredericksburg Ave & Atlantic Ave
Timing Plan: Saturday Peak

												
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	444	5	5	506	29	6	5	5	15	10	12
Future Volume (veh/h)	7	444	5	5	506	29	6	5	5	15	10	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1850	1533	1273	1850	1576	1547	739	1850	739	1850	1374	1735
Adj Flow Rate, veh/h	8	477	1	5	544	20	6	5	-1	16	11	-6
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	22	40	0	19	21	77	0	77	0	33	8
Cap, veh/h	60	1653	3	55	1643	60	323	229	0	319	176	0
Arrive On Green	0.57	0.57	0.57	0.57	0.57	0.57	0.29	0.29	0.00	0.29	0.29	0.00
Sat Flow, veh/h	13	2893	6	5	2876	105	896	885	-162	867	655	-338
Grp Volume(v), veh/h	254	0	232	299	0	270	0	0	0	0	0	0
Grp Sat Flow(s),veh/h/ln	1518	0	1394	1571	0	1415	0	0	0	0	0	0
Q Serve(g_s), s	0.0	0.0	6.0	0.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	6.0	0.0	6.0	7.0	0.0	7.1	0.0	0.0	0.0	0.0	0.0	0.0
Prop In Lane	0.03		0.00	0.02		0.07	0.60		-0.10	0.76		-0.29
Lane Grp Cap(c), veh/h	920	0	796	950	0	809	0	0	0	0	0	0
V/C Ratio(X)	0.28	0.00	0.29	0.32	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00
Avail Cap(c_a), veh/h	920	0	796	950	0	809	0	0	0	0	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(l)	1.00	0.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00
Uniform Delay (d), s/veh	7.7	0.0	7.7	7.9	0.0	7.9	0.0	0.0	0.0	0.0	0.0	0.0
Incr Delay (d2), s/veh	0.7	0.0	0.9	0.9	0.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	1.7	2.2	0.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.4	0.0	8.6	8.8	0.0	9.1	0.0	0.0	0.0	0.0	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		486			569			0			0	
Approach Delay, s/veh		8.5			8.9			0.0			0.0	
Approach LOS		A			A							
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		45.0		25.0		45.0		25.0				
Change Period (Y+Rc), s		5.0		5.0		5.0		5.0				
Max Green Setting (Gmax), s		40.0		20.0		40.0		20.0				
Max Q Clear Time (g_c+I1), s		0.0		0.0		0.0		0.0				
Green Ext Time (p_c), s		0.0		0.0		0.0		0.0				
Intersection Summary												
HCM 6th Ctrl Delay				8.7								
HCM 6th LOS				A								

Approach	EB	WB	NB	SB
Crosswalk Length (ft)	67.0	67.0	26.0	26.0
Crosswalk Width (ft)	8.0	6.0	6.0	6.0
Total Number of Lanes Crossed	4	4	2	2
Number of Right-Turn Islands	0	0	0	0
Type of Control	Pretimed	Pretimed	Pretimed	Pretimed
Corresponding Signal Phase	4	8	6	2
Effective Walk Time (s)	11.0	11.0	23.0	23.0
Right Corner Size A (ft)	10.0	10.0	9.0	9.0
Right Corner Size B (ft)	10.0	8.0	9.0	9.0
Right Corner Curb Radius (ft)	15.0	15.0	15.0	15.0
Right Corner Total Area (sq.ft)	51.62	31.62	32.62	32.62
Ped. Left-Right Flow Rate (p/h)	30	7	24	5
Ped. Right-Left Flow Rate (p/h)	21	13	5	3
Ped. R. Sidewalk Flow Rate (p/h)	29	8	51	20
Veh. Perm. L. Flow in Walk (v/h)	15	6	7	5
Veh. Perm. R. Flow in Walk (v/h)	5	12	29	5
Veh. RTOR Flow in Walk (v/h)	3	5	10	5
85th percentile speed (mph)	30	30	30	30
Right Corner Area per Ped (sq.ft)	415.9	776.5	290.4	359.1
Right Corner Quality of Service	A	A	A	A
Ped. Circulation Area (sq.ft)	259.1	498.2	566.7	2138.9
Crosswalk Circulation Code	A	A	A	A
Pedestrian Delay (s/p)	24.9	24.9	15.8	15.8
Pedestrian Compliance Code	Fair	Fair	Fair	Fair
Pedestrian Crosswalk Score	2.40	2.40	1.73	1.74
Pedestrian Crosswalk LOS	B	B	B	B

Approach	EB	WB	NB	SB
Bicycle Flow Rate (bike/h)	85	97	6	5
Total Flow Rate (veh/h)	490	580	16	40
Effct. Green for Bike (s)	40.0	40.0	20.0	20.0
Cross Street Width (ft)	22.1	22.4	44.4	44.1
Through Lanes Number	2	2	1	1
Through Lane Width (ft)	11.0	11.0	11.0	11.0
Bicycle Lane Width (ft)	5.0	5.0	5.0	5.0
Striped Parking Lane Width (ft)	8.0	8.0	8.0	8.0
Paved Shoulder Width (ft)	0.0	0.0	0.0	0.0
Curb Is Present?	Yes	Yes	Yes	Yes
On Street Parking?	Yes	Yes	Yes	Yes
Bicycle Lane Capacity (bike/h)	1143	1143	571	571
Bicycle Delay (s/bike)	6.7	6.8	17.9	17.9
Bicycle Compliance	Good	Good	Fair	Fair
Bicycle LOS Score	1.44	1.52	1.41	1.44
Bicycle LOS	A	B	A	A