

CRITICAL INTERSECTION APPROACH TRAFFIC MEASURES OF EFFECTIVENESS, 2022 EXISTING & 2027 NO-BUILD & BUILD CONDITIONS											
Intersection #, Location	MOEs	2022 Existing		2027 No Build + L & T		2027 Build, No Mitigation		2027 Build With Mitigation		2027 Build With Mitigation Alternatives	
		AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr	AM Peak Hr	PM Peak Hr
2 - W. Broad & South Ave. Northbound Right Turn Lane	Critical Approach										
	Volume	345	370	375	413	373	412	373	412		
	LOS	C	C	C	C	C	C	C	C		
Traffic Signal Cycle Time, Seconds		70	70	70	70	70	70	70	70		
3 - Roundabout Eastbound South Ave.	Critical Approach									Add EB lane	
	Volume	995	869	1083	965	1079	975	1079	975	1079	975
	LOS	E	C/D	F	E	F	F	F	F	C	B
7 - South Ave & Central Ave. Northbound Thru	Critical Approach									100 Sec. Cycle / Remove WB Rt Lane	
	Volume	585	530	615	575	632	586	632	586	632	586
	LOS	D	D	D	D	D	E	D	E	D / E	D / E, WB Thru = F
Traffic Signal Cycle Time, Seconds		95	95	95	95	95	95	95	95	100 / 95	100 / 95
9 - North Ave & Clark St. Southbound Left Turn	Critical Approach										
	Volume	185	221	197	230	200	232	200	232		
	LOS	D	E	D	F	E	F	D	D		
Traffic Signal Cycle Time, Seconds								100	100		
11 - E. Broad & North Ave. Northbound Thru	Critical Approach									100 sec. Cycle, Remove EB Rt. Slip Lane	
	Volume	543	448	573	492	573	505	573	505	573	505
	LOS	C	C	C	D	D	D	D	D	C	C
Traffic Signal Cycle Time, Seconds		70	70	70	70	70	70	70	70	100	100
13 - North Ave & Central Ave. Westbound Thru	Critical Approach									100 Sec. Cycle, WB Left Turn Lane	
	Volume	465	610	522	673	538	677	538	677	538	677
	LOS	B	C	C	D	C	E	C	E	B	C
Traffic Signal Cycle Time, Seconds		70	70	70	70	70	70	70	70	100	100
14 - E. Broad & Prospect St. Northbound	Critical Approach										
	Volume	40	40	41	42	41	42	41	42		
	LOS	E	F	E	F	E	F	C	C		
Traffic Signal Cycle Time, Seconds								60	60		
17 - E. Broad & Mountain Ave. Eastbound Left Turn	Critical Approach										
	Volume	640	460	655	500	660	523	660	523		
	LOS	E	D	E	E	E	E	E	E		
Traffic Signal Cycle Time, Seconds		60	60	60	60	60	60	60	60		
17 - E. Broad & Mountain Ave. Eastbound Thru Lane	Critical Approach										
	Volume	390	505	399	558	400	585	400	585		
	LOS	D	B	D	C	D	C	D	C		
Traffic Signal Cycle Time, Seconds								60	60		
17 - E. Broad & Mountain Ave. Westbound Thru Lane	Critical Approach										
	Volume	490	525	543	584	550	593	550	593		
	LOS	B	E	B	E	B	E	B	E		
Traffic Signal Cycle Time, Seconds		60	60	60	60	60	60	60	60		
TOTAL APPROACH VOLUMES		2753	2809	2930	3079	2962	3157	2962	3157		
Percent Increase over 2022				106%	110%	108%	112%	108%	112%		
Background Annual Growth Rates:											
.26% growth, 2022-2027 =	1.0131										
.75 % growth, 2022 - 2027 =	1.0381										
Intersection Levels of Service (LOS)		A	B	C	D	E	F				
Average Approach Delay, Seconds / Vehicle											
Unsignalized Intersection		< 10	11 - 15	16-25	26-35	36-50	> 50				
Signalized Intersection		<10	11 - 20	21 - 35	36 - 55	56 - 80	>80				