Blue Star Trail Feasibility Study Intersection Comparison – December 26, 2018

Old Allegan Road & Blue Star Highway

Average Daily Traffic: Blue Star Highway	7,392 (2016 count)				
Average Daily Traffic: Old Allegan Road	929 (2016 count)				
No. of Crashes (2013 – 2017)	10				
No. of Injuries	5				
No. of Fatalities	0				

Lake Street & Blue Star Highway

Average Daily Traffic: Blue Star Highway	7,392 (2016 count)				
Average Daily Traffic: Lake Street*	3,716 (2018 count)				
No. of Crashes (2013 – 2017)	10				
No. of Injuries	1				
No. of Fatalities	0				

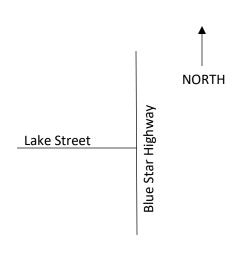
^{*}daily traffic derived from peak hour traffic counts

MMUTCD Traffic Signal Warrants:

	Is Warrant Met?			
Warrant 1: Eight-Hour Vehicular Volume	No			
Warrant 2: Four Hour Vehicular Volume	Yes			
Warrant 3: Peak-Hour Vehicular Volume	Yes			

Operational Analysis:

Intersection		Existing Conditions: Minor Street Stop Controlled							
	Approach	AM P	eak	MD P	eak	PM Peak			
		Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS		
Blue Star Memorial Highway & Lake Street	NB LT	8.1	Α	9.4	Α	8.9	Α		
	NB TH	Fre	е	Fre	е	Free			
	SB THRT	Fre	е	Fre	е	Free			
	EB LT	15.6	С	40.6	Е	32.8	D		
	EB RT	10.3	В	15.0	С	13.4	В		



	Approach	Future Conditions: Minor Street Stop Controlled						Future Conditions: Signalized					
Intersection		AM Peak		MD Peak		PM Peak		AM Peak		MD Peak		PM Peak	
		Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS	Delay (s/veh)	LOS
Blue Star Memorial Highway & Lake Street	NB LT	8.2	Α	9.6	Α	9.1	Α	17.5	В	12.3	В	11.0	В
	NB TH	Fre	е	Free		Free		13.0	В	5.7	Α	6.7	Α
	SB THRT	Fre	е	Free		Free		13.6	В	6.5	Α	6.8	Α
	EB LT	16.4	С	44.0	Е	35.3	Е	6.0	Α	11.8	В	9.9	Α
	EB RT	10.6	В	15.8	С	14.0	В	6.5	Α	14.9	В	12.0	В
	Overall							13.3	В	8.9	Α	8.4	Α