APPENDIX F

Intersection Signal Warrant Analysis

City/Twp. Location: Comments:	Kettering Location Comments	TEC Engineerir 161 Northlanc Cincinnati, Ohio (513) 771-8	1 Blvd. 0 45246	Job Number: Count Date: Page number:	Job Number Count Date 1 of 3	
Start Time	Major Street (major street) HOUR VOLUME	Major Street (major street) HOUR VOLUME	Minor Street (minor street) HOUR VOLUME	Minor Street (minor street) HOUR VOLUME	Intsct. Total	
12:00 AM	0	0	0	0	0	
1:00 AM	0	0	0	0	0	
2:00 AM	0	0	0	0	0	
3:00 AM	0	0	0	0	0	
4:00 AM	0	0	0	0	0	
5:00 AM	0	0	0	0	0	
6:00 AM	0	0	0	0	0	
7:00 AM	731	750	4	11	1496	
8:00 AM	1013	942	33	115	2103	
9:00 AM	0	0	0	0	0	
10:00 AM	0	0	0	0	0	
11:00 AM	0	0	0	0	0	
12:00 PM	0	0	0	0	0	
1:00 PM	0	0	0	0	0	
2:00 PM	0	0	0	0	0	
3:00 PM	0	0	0	0	0	
4:00 PM	906	1094	76	93	2169	
5:00 PM	0	0	0	0	0	
6:00 PM	0	0	0	0	0	
7:00 PM	0	0	0	0	0	
8:00 PM	0	0	0	0	0	
9:00 PM	0	0	0	0	0	
10:00 PM	0	0	0	0	0	
11:00 PM	0	0	0	0	0	
No. of moving Number of in 85th percenti	Data traffic lanes/app. on major st. traffic lanes/app. on minor st. tersection approaches: le major-street speed (mph): n area? (R or U)	2 1 4 35				

Intersection Signal Warrant Analysis

					C Engineering, Inc.		
					51 Northland Blvd. cinnati, Ohio 45246		
City/Twp.	Kettering				(513) 771-8828	Job Number:	Job Number
Location:	Location				() ··	Count Date:	Count Date
Comments:	Comments					Page number:	1 of 3
-	RRANT ANALYSIS						
Warrant 1	w Vehicule - V-l						
	ur Vehicular Volume	600					
	volume requirement: volume requirement:	150					
Warrant hour		8					
Warrant hour	s met:	0					
Warrant 1A n	net?	NO					
	tion of Continuous Tra						
	volume requirement:	900					
Warrant hour	volume requirement:	75 8					
Warrant hour		2					
Warrant 1B m		NO					
Combinatio	na of Waynanta						
Warrant hour	ns of Warrants rs required:	8					
Warrant hour		0					
	Warrant met?	NO					
Warrant 1 me	et?	NO					
	Four Hour Volumes						
	UR VOLUME WARRANT CUR						
Warrant hour		4					
Warrant hour Warrant 2 me		0 NO					
			_				
Warrant 3 A. Peak Hou	<u>ır Delay</u>				Delay Calc	ulations	
	nor street stopped time d			4	*Average stopped delay,		
	nor street stopped time d			0	Average stopped delay, veh-		
	nor street approach warr nor street approach volu			100 115	Number of approach vehicles in hour, ve Total stopped time delay, veh-l		
	our intersection vol. warra			800	*See attached capaci		
	our intersection volume, v			2103		cy unaryoro	
Warrant 3A n			i.	NO			
B. Peak Hou	ur Volume						
	UR VOLUME WARRANT CUR	VF)					
Warrant hour		,	1	1			
Warrant hour	s met:			0			
Warrant 3B n	net?			NO			
Warrant 3 me	et?			NO			
Warrant 4 -	Pedestrian Volume		٦				
	our pedestrian crossing	0	1				
No. of hours	with 100+ pedestrian cro		1				
Warrant 4 me	et?	NO]				
Warrant 5 -	School Crossing			1			
	near or part of a school of	crossing? (Y/N)	Ν				
Warrant 5 me	et?		NO				
Warrant 6 -	Coordinated Signal Sy	vstem					
	to be used to control pro		hrougho	ut a sys	tem? (Y/N) N		
Warrant 6 me	et?				NO		
	Crash Experience						
	trial of alternatives	6-11- d t-					
Adequate tria	I of alternatives with enfo	orcement has failed to	o reduce	crash fi	requency: N		
B. Crash Ex	perience						
No. of interse	ection accidents within a o	one-year period susce	eptible to	correct	ion by a traffic signal: 0		
C. 80% Volu	umes						
Warrant hour					8		
Warrant hour					2		
Combination	Warrant met?	I			NO		
Warrant 7 me	et?				NO		
Warrant 8 -	Roadway Network						
Is this signal	to be used to control pro	gressive movement th	hrougho	ut a sys			
Warrant 8 me	et?				NO		

Warrant 8 met?

Intersection Signal Warrant Analysis

TEC Engineering, Inc. 161 Northland Blvd. Cincinnati, Ohio 45246 (513) 771-8828

City/Twp. Kettering Location: Location Comments: Comments

warnt 600 600 600 600 600 600 600	vol. 0 0 0 0 0 0 0	warnt 150 150 150 150 150 150	vol. 0 0 0 0 0	met 0 0 0 0 0
600 600 600 600 600 600	0 0 0 0 0	150 150 150 150	0 0 0 0	0 0 0
600 600 600 600 600	0 0 0 0	150 150 150	0 0 0	0
600 600 600 600	0 0 0	150 150	0	0
600 600 600	0	150	0	
600 600	0		-	0
600		150		
	0		0	0
		150	0	0
600	1481	150	11	0
600	1955	150	115	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	2000	150	93	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0
600	0	150	0	0

		min st	min st	
warnt	vol.	warnt	vol.	
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	1481	75	11	0
900	1955	75	115	1
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	2000	75	93	1
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
900	0	75	0	0
	Warrar	nt hours	met	2

	(2) maj st warnt		(2) min st warnt	maj st vol.	min st vol.	80% wrnt 1	80% wrnt2	hrs. met
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	1481	11	0	0	0
480	720	120	60	1955	115	0	1	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	2000	93	0	1	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
480	720	120	60	0	0	0	0	0
			Warrant h	ours met		0	2	0

Crash Analysis Part C Warrants

	(2) maj st warnt		(2) min st warnt	maj st vol.	min st vol.	80% wrnt 1	80% wrnt2
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	1481	11	0	0
480	720	160	80	1955	115	0	1
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	2000	93	0	1
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
480	720	160	80	0	0	0	0
			Warrant h	ours met	t	0	2

Warrant 3A

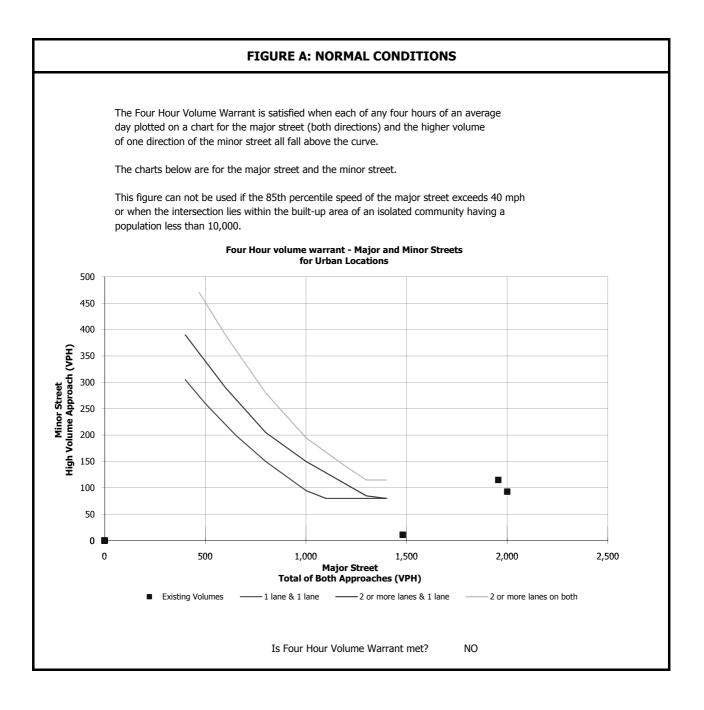
Job Number: Count Date: Page number:

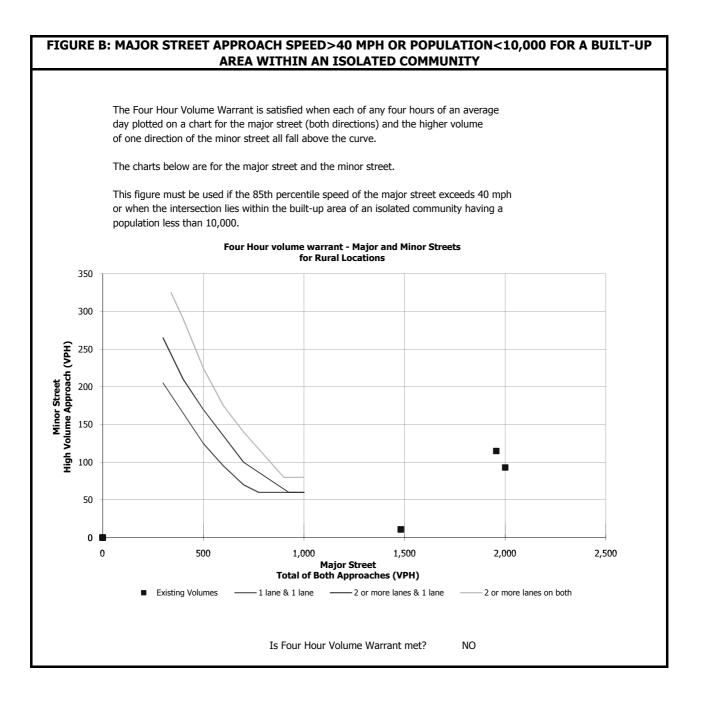
Job Number Count Date 1 of 3

major	minor		
st.	st.		
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
1496	11	0	
2103	115	2103	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
2169	93	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
0	0	0	
Pk Hr	115	2103	

s.

Warrant 2 Graph





Warrant 3B Graph

