

AGENDA: TSC 5/5/14

ITEM NO. 4: Consider request to construct a ROUNDABOUT at the intersection of Folks Road and Trail Road.

Staff Report:

1. Traffic data was obtained at this intersection March 31 – April 1.
2. Warrants for roundabouts have not been established; however, they can be a substitute for a multi-way stop or traffic signal, which do have established warrants.
3. Based on the traffic data that was collected, a multi-way stop or traffic signal are not currently warranted.

MINUTES: TSC 5/5/14

ITEM NO. 4:

Consider request to construct a ROUNDABOUT at the intersection of Folks Road and Trail Road.

Woosley reviewed the information provided in the staff report.

Public Comment:

None.

MOTION BY COMMISSIONER STORM, SECOND BY COMMISSIONER DEVLIN, TO RECOMMEND DENIAL OF THE REQUEST TO CONSTRUCT A ROUNDABOUT AT THE INTERSECTION OF FOLKS ROAD AND TRAIL ROAD; THE MOTION CARRIED, 5-0.

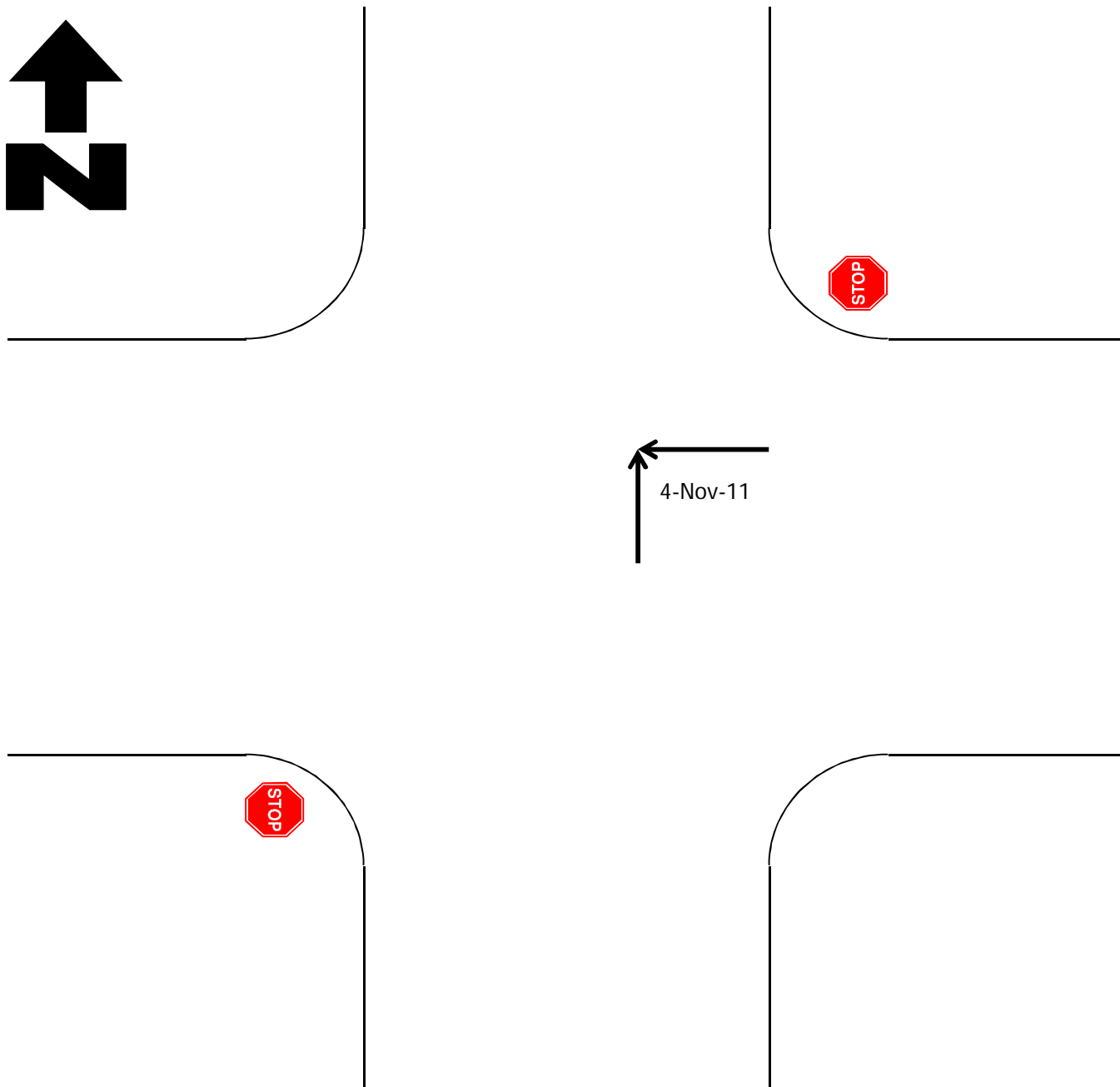


City of Lawrence, Kansas
Traffic Engineering Division
Crash Diagram



Location: **Folks Road & Trail Road**

Date: **2011-2013**



Notes: _____

4/24/2014



City of Lawrence, Kansas
Traffic Engineering Division

ALL WAY

Stop Warrant Worksheet



Date: March 31-April 1 2014

Location: Folks Road & Trail Road

Time Period	Folks Road							Trail Road							Grand Total
	NBLL	NB	NBRL	SBLL	SB	SBRL	Total	EBLL	EB	EBRL	WBLL	WB	WBRL	Total	
12-01		3			11		14		0			0		0	14
01-02		1			1		2		0			1		1	3
02-03		2			2		4		0			0		0	4
03-04		5			3		8		1			0		1	9
04-05		4			6		10		0			0		0	10
05-06		5			6		11		5			5		10	21
06-07		38			62		100		12			43		55	155
07-08		114			249		363		58			134		192	555
08-09		115			124		239		29			56		85	324
09-10		77			64		141		18			24		42	183
10-11		76			70		146		5			18		23	169
11-12		97			90		187		15			26		41	228
12-01		176			104		280		22			26		48	328
01-02		111			92		203		12			47		59	262
02-03		141			66		207		12			31		43	250
03-04		191			125		316		22			66		88	404
04-05		195			110		305		21			45		66	371
05-06		252			189		441		19			53		72	513
06-07		193			102		295		20			59		79	374
07-08		153			78		231		8			25		33	264
08-09		123			35		158		13			19		32	190
09-10		41			28		69		1			11		12	81
10-11		26			14		40		0			7		7	47
11-12		5			9		14		1			2		3	17
Totals	0	2144	0	0	1640	0	3784	0	294	0	0	698	0	992	4776

The Manual on Uniform Traffic Control Devices (MUTCD) requires an average of **300** vehicles per hour entering the intersection from the main street for each of 8 hours of a day, and an average of **200** entering from the minor street during the same 8 hours.

Average entering volume on main street for 8 highest hours = **309**

Average minor street volume for same 8 hours = **83**

4/23/2014



City of Lawrence, Kansas
Traffic Engineering Division
Traffic Signal Warrant Worksheet



Location: **Folks Road & Trail Road**

Date: **31 March - 1 April 2014**

Time Period	Folks Road											Overland Drive										Grand Total	Warrant Met			
	NBLT	NBLL	NBRL	NBRT	NB	SBLT	SBLL	SBRL	SBRT	SB	Total	EBLT	EBLL	EBRL	EBRT	EB	WBLT	WBLL	WBRL	WBRT	WB		#1a	#1b	#2	#3
12-01					3					11	14					0					0	14				
01-02					1					1	2					0					1	3				
02-03					2					2	4					0					0	4				
03-04					5					3	8					1					0	9				
04-05					4					6	10					0					0	10				
05-06					5					6	11					5					5	21				
06-07					38					62	100					12					43	155				
07-08					114					249	363					58					134	555				
08-09					115					124	239					29					56	324				
09-10					77					64	141					18					24	183				
10-11					76					70	146					5					18	169				
11-12					97					90	187					15					26	228				
12-01					176					104	280					22					26	328				
01-02					111					92	203					12					47	262				
02-03					141					66	207					12					31	250				
03-04					191					125	316					22					66	404				
04-05					195					110	305					21					45	371				
05-06					252					189	441					19					53	513				
06-07					193					102	295					20					59	374				
07-08					153					78	231					8					25	264				
08-09					123					35	158					13					19	190				
09-10					41					28	69					1					11	81				
10-11					26					14	40					0					7	47				
11-12					5					9	5					1					2	8				
Totals	0	0	0	0	2144	0	0	0	0	1640	3775	0	0	0	0	294	0	0	0	0	698	4767	0	0	0	0

The Manual on Uniform Traffic Control Devices Minimum Volume Requirements for 8 hours:

Warrant #1a: Main Street -- 500 Minor Street -- 150
Warrant #1b: Main Street -- 750 Minor Street -- 75

no Warrant #7, Crash Experience, met

Warrant #2 - Four-Hour Warrant
Warrant #3 - Peak-Hour Warrant