

City of Lawrence
Traffic Safety Commission Agenda
September 8, 2008-7:00 PM
City Commission Room, City Hall

ITEM NO. 2: Consider request to establish additional TRAFFIC CONTROL at the intersection of Arrowhead Drive & Peterson Road.

Facts:

1. The *Manual on Uniform Traffic Control Devices* provides the criteria for the use of all traffic control devices.
2. Traffic data was obtained at the intersection on August 19-20, 2008.
3. The data was evaluated for both an ALL-WAY STOP and TRAFFIC SIGNAL; neither met the minimum requirements for consideration.

ACTION: Provide recommendation to the City Commission.

City of Lawrence
Traffic Safety Commission
September 8, 2008 Minutes

ITEM NO. 2:

Consider request to establish additional TRAFFIC CONTROL at the intersection of Arrowhead Drive & Peterson Road.

David Woosley presented the information provided in the staff report.

Public comment:

Lauren Reinhold, 520 Brentwood Drive: I've talked to a lot of other parents in the neighborhood and the general area; our main concern is about pedestrian traffic trying to cross Peterson Road and the speed of the traffic there, particularly with small children; there are a lot of residences to the north of Peterson Road and to the south, we have Deerfield Park and the school; there is a crossing guard before and after

school, but there are a lot of other times of the day that families are crossing, and in the summertime; it can be downright frightening; we'd like to see a crossing where you can push a button and get a red light; there is a bit of a hill to the east that can be treacherous when crossing from the south to the north.

Commissioner Miller asked if others knew about the meeting tonight; Reinhold advised that she had let some others know.

Commissioner Hagen asked if there was information on sight distances and speed of traffic; Woosley advised that the posted speed limit is 40mph and that the design speed was probably 40 or 45mph and the actual speed of traffic is between 40 and 45mph.

Commissioner Hagen: This may be an area where we should consider a pedestrian refuge; Woosley advised that the roadway would have to be widened since there is a two-way left-turn lane throughout the area.

Commissioner Novotny: I think we are seeing a lot of extra traffic due to the partial closure of the KTA exit and that will probably decrease when the exit reopens.

Commissioner Heckler: With the number of families in the area, I'm inclined to support a crossing light with a push button.

Commissioner Smith asked what would happen to the school crossing guard if a light were installed; Woosley advised that it would depend on the amount of traffic turning across the crosswalk at the same time pedestrians were crossing.

Commissioner Hagen: The pedestrian light on 11th Street came about due to extensive lobbying by the neighborhood with the city commission; that may need to be done in this case.

Commissioner Ziegelmeyer: I would not be opposed to a signal.

Commissioner Woods: I am because I don't think they want to lose the crossing guard and I don't think the city commission will approve it if it doesn't meet the criteria.

Commissioner Smith: I'm inclined to deny the request as it was made; but I kind of like the idea of a crossing light but with input from the school and more area residents.

Commissioner Hagen: I would also be inclined to deny the request but I would strongly encourage discussion within the neighborhood and school and consider some alternatives.

MOTION BY COMMISSIONER WOODS, SECONDED BY COMMISSIONER HAGEN, TO RECOMMEND DENIAL OF THE REQUEST TO ESTABLISH ADDITIONAL TRAFFIC CONTROL AT THE INTERSECTION OF ARROWHEAD DRIVE & PETERSON ROAD; THE MOTION CARRIED (7-1)(Heckler; supports a crossing light).



City of Lawrence, Kansas
Traffic Engineering Division

ALL WAY Stop Warrant Worksheet



Date: August 19-20, 2008

Location: Arrowhead Drive & Peterson Road

Time Period	Peterson Road							Arrowhead Drive							Grand Total
	EBLL	EB	EBRL	WBLL	WB	WBRL	Total	NBLL	NB	NBRL	SBLL	SB	SBRL	Total	
12-01		8			53		61		1			2		3	64
01-02		6			21		27		0			2		2	29
02-03		3			8		11		1			0		1	12
03-04		6			11		17		0			5		5	22
04-05		11			1		12		0			5		5	17
05-06		41			15		56		5			20		25	81
06-07		111			49		160		8			52		60	220
07-08		204			152		356		19			139		158	514
08-09		144			130		274		12			68		80	354
09-10		104			78		182		2			25		27	209
10-11		96			100		196		10			36		46	242
11-12		116			112		228		14			60		74	302
12-01		146			141		287		8			30		38	325
01-02		159			135		294		22			38		60	354
02-03		121			128		249		7			41		48	297
03-04		156			189		345		35			42		77	422
04-05		145			216		361		22			48		70	431
05-06		158			294		452		38			63		101	553
06-07		130			172		302		27			68		95	397
07-08		81			135		216		21			30		51	267
08-09		99			115		214		16			35		51	265
09-10		79			104		183		4			18		22	205
10-11		67			57		124		8			7		15	139
11-12		34			39		73		2			4		6	79
Totals	0	2225	0	0	2455	0	4680	0	282	0	0	838	0	1120	5800

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 = **334**

Average minor street volume for same 8 hours = **85**

8/25/2008



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



Location: Arrowhead Drive & Peterson Road

Date: 19-20 August 2008

Time Period	Peterson Road										Arrowhead Drive										Grand Total	Warrant Met		
		EB			EB		WB			WB	Total		NB			NB		SB				SB	#1a	#1b
12-01		8			8		53			53	61		1			1		2			2	64		
01-02		6			6		21			21	27		0			0		2			2	29		
02-03		3			3		8			8	11		1			1		0			0	12		
03-04		6			6		11			11	17		0			0		5			5	22		
04-05		11			11		1			1	12		0			0		5			5	17		
05-06		41			41		15			15	56		5			5		20			20	81		
06-07		111			111		49			49	160		8			8		52			52	220		
07-08		204			204		152			152	356		19			19		139			139	514	1	
08-09		144			144		130			130	274		12			12		68			68	354		
09-10		104			104		78			78	182		2			2		25			25	209		
10-11		96			96		100			100	196		10			10		36			36	242		
11-12		116			116		112			112	228		14			14		60			60	302		
12-01		146			146		141			141	287		8			8		30			30	325		
01-02		159			159		135			135	294		22			22		38			38	354		
02-03		121			121		128			128	249		7			7		41			41	297		
03-04		156			156		189			189	345		35			35		42			42	422		
04-05		145			145		216			216	361		22			22		48			48	431		
05-06		158			158		294			294	452		38			38		63			63	553		
06-07		130			130		172			172	302		27			27		68			68	397		
07-08		81			81		135			135	216		21			21		30			30	267		
08-09		99			99		115			115	214		16			16		35			35	265		
09-10		79			79		104			104	183		4			4		18			18	205		
10-11		67			67		57			57	124		8			8		7			7	139		
11-12		34			34		39			39	73		2			2		4			4	79		
Totals	0	2225	0	0	2225	0	2455	0	0	2455	4680	0	282	0	0	282	0	838	0	0	838	5800	1	0

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

Warrant #1a: Main Street -- 350 Minor Street -- 105

Warrant #1b: Main Street -- 525 Minor Street -- 53

Speed Limit on Peterson Road = 40 mph

no Warrant #7, Crash Experience, met

no Warrant #2, Four Hour Volume, met

no Warrant #3, Peak Hour Volume, met