New Decision Process for Example Locations

Preliminary Asses Poir		Clarence Avenue & 14 th Street Pedestrian Crossing East-West direction	Preston Avenue & East Drive Pedestrian Crossing East-West direction				
Traffic Signal Warrant	Points	31	42				
vvarrant	Warranted (Y/N)	No	No				
Average Hourly Pedestrian Volume ≥ 15 EAU¹s AND	Average Hourly Pedestrian Volume	12 EAU	4 EAU				
vehicular volume ≥1,500 veh/day?	Vehicular Volume	14,400	16,700				
=1,000 vc1//day:	Answer (Y/N)	No	No				
Is this site > 200 metres from the nearest traffic	Distance from the nearest traffic control device	220 m	375 m				
control device?	Answer (Y/N)	Yes	Yes				
	Latent pedestrian crossing demand ²	~ 10 EAU	~4 EAU				
Is average hourly latent pedestrian crossing demand ≥ 15 EAUs OR is there requirement for system connectivity?	Required connection?	14 th Street is identified as a proposed All Ages and Abilities route in the Active Transportation Master Plan	The distance between the traffic signals at Arlington Avenue and Louise Street suggests that an additional pedestrian crossing would be desirable. East Drive is most evenly spaced between Arlington Avenue and Louise Street and has an existing ground-mounted pedestrian device. Enhancing the crossing would meet pedestrian and driver expectation and enhance compliance.				
	Answer (Y/N)	Yes	Yes				
Treatment Selection	Table-1 in Pedestrian Crossing Guide	Overhead Flashing (OF) device	RRFB or OF				

¹ EAU – Equivalent Adult Units to account for pedestrian age and physical ability. Adults – 1.0 EAU; Children ≤ 12 years – 2.0 EAUs; Older pedestrians ≥ 65 years – 1.5 EAUs; Pedestrian with impairment – 2.0 EAUs. ² Latent crossing demand estimated using the Institute of Traffic Engineers Trip Generation Manual 10th

² Latent crossing demand estimated using the Institute of Traffic Engineers Trip Generation Manual 10th Edition and the mode split identified in the Active Transportation Master Plan Discussion Paper #1.



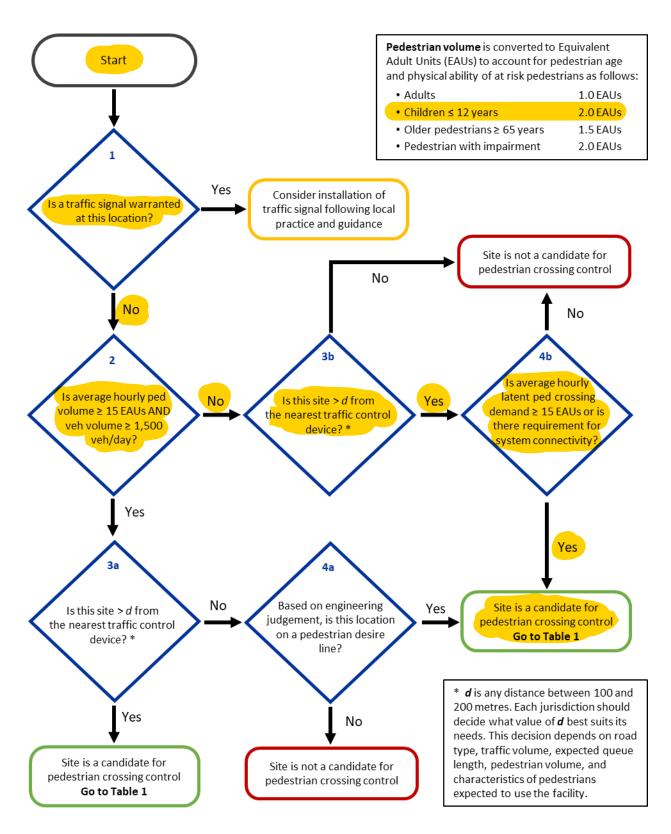
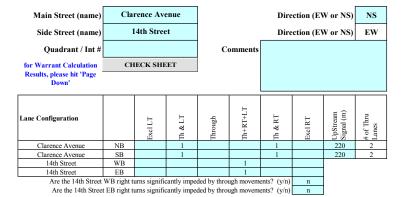


Figure 8: Decision Support Tool - Preliminary Assessment

October 2017

City of Saskatoon Canadian Matrix Traffic Signal Warrant Analysis

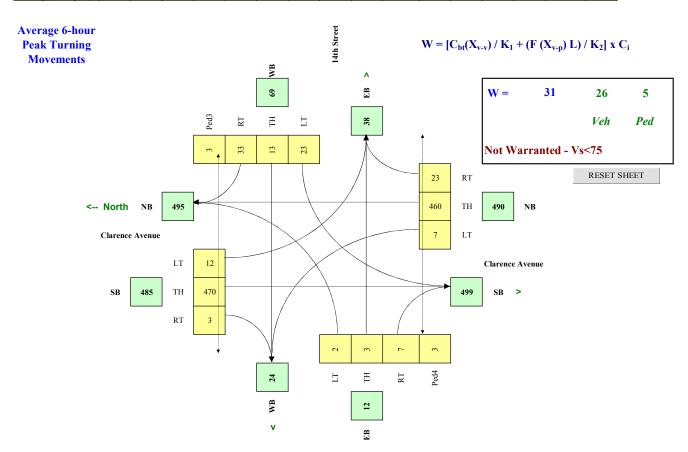


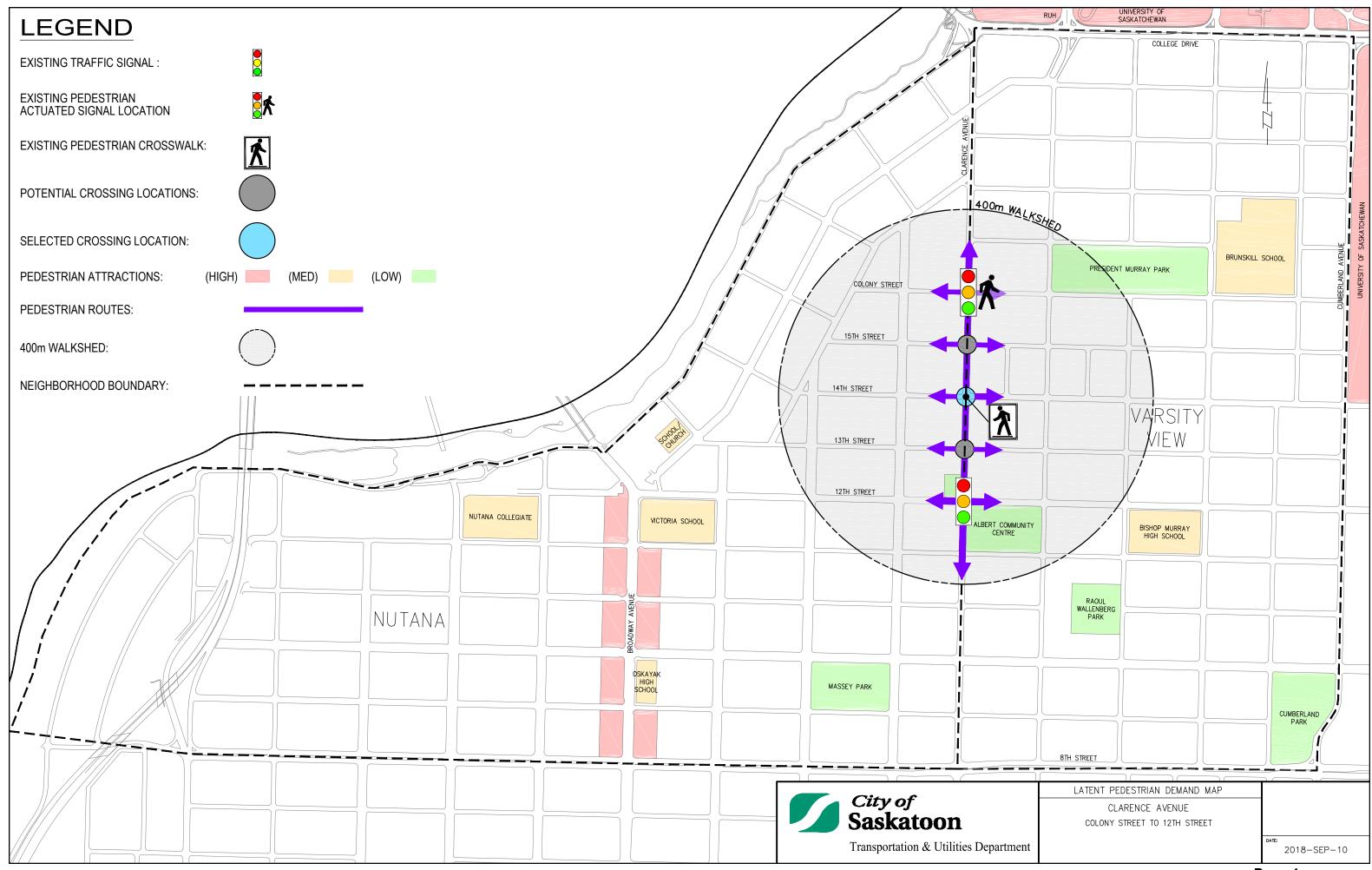
Road Authority:	City of Saskatoon
City:	Saskatoon
Analysis Date:	2018 Jul 30, Mon
Count Date:	2018 Jan 23, Tue
Date Entry Format:	(yyyy-mm-dd)

Demographics		
Elem. School/Mobility Challenged	(y/n)	n
Senior's Complex	(y/n)	n
Pathway to School	(y/n)	у
Metro Area Population	(#)	210,000
Central Business District	(y/n)	n

Other input			Speed	Truck	Bus Rt	Median
			(Km/h)	%	(y/n)	(m)
	Clarence Avenue	NS	50	2.0%	у	0.0
	14th Street	EW		2.0%	n	

									1					Ped2	Ped3	Ped4
Set Peak Hours								WB EB			NS	NS	EW	EW		
Set I eak Hours								Th	RT	LT	Th	RT	W Side	E Side	N Side	S Side
								16	37	3	2	9	4	4	0	0
8:00 - 9:00	4	602	22	13	373	5	22	18	41	3	5	7	2	7	3	2
11:30 - 12:30	8	391	29	9	415	2	15	7	24	0	3	5	7	13	4	7
12:30 - 13:30	8	426	14	8	375	2	12	10	20	1	2	3	8	3	2	3
15:00-16:00	6	451	21	12	514	4	25	16	37	3	2	9	4	4	0	0
16:00-17:00	9	439	30	19	626	3	38	13	39	1	6	9	9	3	6	4
Total (6-hour peak)	41	2,760	137	73	2,817	20	137	80	198	11	20	42	34	34	15	16
Average (6-hour peak)	7	460	23	12	470	3	23	13	33	2	3	7	6	6	3	3





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City of Saskatoon Canadian Matrix Traffic Signal Warrant Analysis

