



Kamloops Pedestrian  
Master Plan

## APPENDIX B

### PSI Sensitivity Analysis

**Kamloops Safer City Project**  
**PEDESTRIAN LEVEL OF SERVICE**  
*Effect of Varying Sidewalk Width*

***With Bicycle Lane and no parking - No Barrier***

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		0	0	0
Buffer width	[m]	0	0	0
	[ft]	0	0	0
Sidewalk presence coeff.		5.02	4.03	3.05
Width of sidewalk	[m]	1	2	3
	[ft]	3.28	6.56	9.84
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	50	50	50
	[mi/hr]	31.07	31.07	31.07
<b>LOS</b>		<b>2.89</b> <b>C</b>	<b>2.57</b> <b>C</b>	<b>2.48</b> <b>C</b>

***With Bicycle Lane and no parking - with Buffer***

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		1	1	1
Buffer width	[m]	0.5	0.5	0.5
	[ft]	1.64	1.64	1.64
Sidewalk presence coeff.		5.02	4.03	3.05
Width of sidewalk	[m]	1	2	3
	[ft]	3.28	6.56	9.84
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	50	50	50
	[mi/hr]	31.07	31.07	31.07
<b>LOS</b>		<b>2.84</b> <b>C</b>	<b>2.53</b> <b>C</b>	<b>2.44</b> <b>B</b>

**Kamloops Safer City Project**  
**PEDESTRIAN LEVEL OF SERVICE**  
*Effect of Varying Posted Speed*

*With Bicycle Lane and no parking - No Barrier*

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		0	0	0
Buffer width	[m]	0	0	0
	[ft]	0	0	0
Sidewalk presence coeff.		4.52	4.52	4.52
Width of sidewalk	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	30	60	90
	[mi/hr]	18.64	37.28	55.92
<b>LOS</b>		<b>2.39</b>	<b>2.91</b>	<b>3.78</b>
		<b>B</b>	<b>C</b>	<b>D</b>

*With Bicycle Lane and no parking - with Buffer*

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		1	1	1
Buffer width	[m]	0.5	0.5	0.5
	[ft]	1.64	1.64	1.64
Sidewalk presence coeff.		4.52	4.52	4.52
Width of sidewalk	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	30	60	90
	[mi/hr]	18.64	37.28	55.92
<b>LOS</b>		<b>2.34</b>	<b>2.86</b>	<b>3.73</b>
		<b>B</b>	<b>C</b>	<b>D</b>

**Kamloops Safer City Project**  
**PEDESTRIAN LEVEL OF SERVICE**  
*Effect of Varying Buffer Width*

***With Bicycle Lane and no parking - No Barrier***

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		0	0	0
<b>Buffer width</b>	<b>[m]</b>	<b>0</b>	<b>0</b>	<b>0</b>
	[ft]	0	0	0
Sidewalk presence coeff.		4.52	4.52	4.52
Width of sidewalk	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	50	50	50
	[mi/hr]	31.07	31.07	31.07
<b>LOS</b>		<b>2.7</b>	<b>2.7</b>	<b>2.7</b>
		<b>C</b>	<b>C</b>	<b>C</b>

***With Bicycle Lane and no parking - with Buffer***

		A	B	C
Width of outside lane	[m]	3.5	3.5	3.5
	[ft]	11.48	11.48	11.48
Width of bike lane	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
On street parking effect coeff.		0.2	0.2	0.2
% on street parking		0%	0%	0%
Buffer area barrier coeff.		1	1	1
<b>Buffer width</b>	<b>[m]</b>	<b>0.5</b>	<b>1</b>	<b>1.5</b>
	[ft]	1.64	3.28	4.92
Sidewalk presence coeff.		4.52	4.52	4.52
Width of sidewalk	[m]	1.5	1.5	1.5
	[ft]	4.92	4.92	4.92
Volume in 15 min period		500	500	500
# of through lanes		4	4	4
Avg running speed of cars	[km/hr]	50	50	50
	[mi/hr]	31.07	31.07	31.07
<b>LOS</b>		<b>2.65</b>	<b>2.6</b>	<b>2.55</b>
		<b>C</b>	<b>C</b>	<b>C</b>

