

APPENDIX E

Motor Vehicle Chapter Supporting Documents

Traffic Operations for Study Area Intersections (PM Peak Hour)

Intersection	2030 Committed Scenario			2030 Capacity Enhancing Scenario		
	Delay	LOS	V/C	Delay	LOS	V/C
Unsignalized Intersections						
ODOT Jurisdiction						
Highway 20/Cooley Road		B/F	>1.0		B/F	>1.0
Highway 20/Hamby Road		A/F	0.72		A/E	0.53
Highway 97 southbound Ramp/Empire Avenue		C/F	0.95		F/F	>1.0
Highway 97 southbound Ramp/Butler Market Road		NA/F	>1.0		NA/F	0.87
Highway 97 northbound Ramp/Butler Market Road		B/F	0.80		B/D	0.22
Highway 97 northbound Ramp/Colorado Avenue		E/F	>1.0		NA	NA
Highway 97 northbound Ramp/Reed Market Road						
Highway 97/Badger Road		A/E	0.23		N/A	N/A
Highway 97/Ponderosa Road – China Hat Road		A/C	0.19		A/C	0.16
Highway 97 northbound Ramp/Baker Road		A/B	0.21		A/B	0.21
Highway 97 southbound Ramp/Baker Road		A/B	0.48		A/B	0.48
Bend Jurisdiction						
Empire Avenue/Boyd Acres Road (all-way stop)						
Empire Avenue/18th Street		D/F	>1.0		-	-
Ferguson Road/27th Street		A/C	0.20		A/C	0.30
Rickard Road/27th Street		A/C	0.23		A/C	0.17
Reed Market Road/9th Street		A/E	0.71		B/F	>1.0
Reed Market Road/American Lane		C/F	>1.0		E/F	>1.0
Knott Road/15th Street		A/F	>1.0		B/F	>1.0
Knott Road/China Hat Road		A/C	0.11		A/C	0.11
Brookwood Boulevard/Baker Road		A/B	0.12		A/B	0.12
Neff Road/Hamby Road		A/C	0.40		A/C	0.39
Butler Market Road/Hamby Road		A/A	0.47		A/A	0.31
Butler Market Road/Hamehook Road		A/A	0.59		A/A	0.49
Brookwood Boulevard/Powers Road						
Deschutes Market Road/Hamehook Road		A/B	0.29		A/C	0.61
Roundabouts						
Bend Jurisdiction						
Mount Washington Drive/Shelvin Park Road				2.4	A	0.55
Colorado Avenue – Century Drive/14th Street				1.7	A	0.57
Newport Avenue/14th Street				2.0	A	0.73
Galveston Avenue/14th Street				7.0	A	0.92
Colorado Avenue/Simpson Avenue				1.0	A	0.43
Simpson Avenue/14th Street				1.9	A	0.48
Mount Washington Drive/Skyliners				1.0	A	0.45

Intersection	2030 Committed Scenario			2030 Capacity Enhancing Scenario		
	Delay	LOS	V/C	Delay	LOS	V/C
Butler Market Road/8th Street				4.7	A	0.69
Signalized Intersections						
ODOT Jurisdiction						
Highway 20/Robal Road		B	0.51		C	0.88
Highway 20/Empire Avenue		D	0.93		F	>1.0
Highway 20/Butler Market Road – Mount Washington Drive		E	>1.0		D	0.97
Highway 20/Greenwood Avenue						
Highway 20/8th Street						
Highway 20/15th Street		B	0.86		B	0.83
Highway 20/27th Street		F	>1.0		F	>1.0
Highway 20/Revere Avenue		E	>1.0		E	>1.0
Highway 20/Olney Avenue		D	>1.0		D	0.94
Highway 97/Cooley Road		C	0.96		C	0.93
Highway 97/Robal Road		E	>1.0		E	>1.0
Highway 97 northbound Ramp/Empire Avenue		E	>1.0		D	0.95
Highway 97 southbound Ramp/Revere Avenue		F	>1.0		F	>1.0
Highway 97 northbound Ramp - Division/Revere Avenue		B	0.56		B	0.50
Highway 97 southbound Ramp/Colorado Ave		D	>1.0		D	>1.0
Highway 97 southbound Ramp/Reed Market Road		E	>1.0		C	0.94
Highway 97/Powers Road		F	>1.0		N/A	N/A
Highway 97/Pinebrook Boulevard		C	0.89		A/B	0.31
Highway 97/3rd Street		C	0.76		N/A	N/A
Bend Jurisdiction						
3rd Street/Reed Market Road	>80.0	F	>1.0	>80.0	F	>1.0
3rd Street/Wilson Avenue	63.1	E	>1.0	52.7	D	0.98
3rd Street/Franklin Avenue	61.9	E	>1.0	51.5	D	0.98
3rd Street/Powers Road	42.2	D	0.91	>80.0	F	>1.0
3rd Street/Murphy Road	42.0	D	0.91	47.7	D	0.90
Butler Market Road/27 th Street	52.2	D	0.94	-	-	-
27th Street/Neff Road	>80.0	F	>1.0	>80.0	F	>1.0
Reed Market Road/27th Street	27.8	C	0.82	62.9	E	>1.0
Portland Avenue – Olney Avenue/Wall Street	80	E	>1.0	75.8	E	>1.0
Olney Avenue – Neff Road/8th Street	>80.0	F	>1.0	69.5	E	>1.0

Notes: Unsignalized Intersections:

A/A = Minor Street turn LOS/Major street turn LOS

V/C = Individual lane groups

Delay = Individual lane groups

Roundabouts:

V/C = Individual approach

Delay = Individual approach

Signalized and All-Way Stop Intersections:

Delay = Average vehicle delay in the peak hour for entire intersection in seconds