Traffic Operations Summary – 2045 AM Peak Hour

AM Peak Hour

Updated August 2015

	US 51 Intersection	Overall Level of Service		
		Future No Build	Alternative A	Alternative H
Intersections	Farwell St (County MN)	Signalized C (3.05)	Signalized C (3.05)	Signalized C (3.02)
	Exchange St	Unsignalized # F (6+)	Roundabout ★ A (1.86)	Roundabout ★ A (1.86)
	County B/AB	Unsignalized # F (6+)	Roundabout ★ A (1.85)	Roundabout ★ A (1.87)
	County B (East)	Unsignalized # E (5.52)	Roundabout ★ A (1.68)	Roundabout ★ A (1.68)
	Roby Rd	Unsignalized # E (5.56)	Roundabout ★ A (1.66)	Roundabout ★ A (1.88)
	WIS 138 (West)	Unsignalized # F (6+)	Roundabout ★ A (1.81)	Roundabout ★ A (1.82)
	Hoel Ave	Unsignalized # F (6+)	Unsignalized # F (6+)	Unsignalized # F (6+)
	County N	Signalized B (2.77)	Signalized B (2.77)	Signalized B (2.82)
	County N and County B (East)	All-Way-Stop E (5.34)	All-Way-Stop E (5.34)	All-Way-Stop E (5.34)
Downtown Stoughton	Van Buren St	Signalized B (2.36)	Signalized B (2.36)	Signalized B (2.37)
	Page St	Signalized B (2.20)	Signalized B (2.20)	Signalized A (1.99)
	Division St	Signalized A (1.65)	Signalized A (1.65)	Signalized A (1.64)
	S. 4th St	Signalized E (5.55)	Signalized E (5.55)	Signalized E (5.53)
Northbound LOS (Peak Direction)				
Two-Lane Roadway	US 51 Between Mahoney Rd and Dyreson Rd	E (5.15)	E (5.19)	E (5.22)
	US 51 Between Lake Kegonsa Rd and County B East	E (5.27)	E (5.42)	E (5.40)
	US 51 Between Washington Rd and Tower Dr	D (4.01)	C (3.99)	C (3.99)
Southbound LOS (Off-Peak Direction)				
Two-Lane Roadway	US 51 Between Mahoney Rd and Dyreson Rd	C (3.43)	C (3.45)	C (3.54)
	US 51 Between Lake Kegonsa Rd and County B East	C (3.39)	C (3.45)	C (3.47)
	US 51 Between Washington Rd and Tower Dr	C (3.11)	A (1.87)	A (1.87)

★ Roundabout or signal.

Level of Service (LOS) Values	
LOS (Alpha Value)	LOS (Numeric Value)
A	1.01 to 2.00
B	2.01 to 3.00
C	3.01 to 4.00
D	4.01 to 5.00
E	5.01 to 6.00
F	> 6.00

Intersection Type	LOS determination
Unsignalized	Delay for Poorest Intersection Movement
All-way-stop	Weighted average delay of all intersection movements
Roundabout	
Signalized	Weighted average delay of all intersection movements

See Description of Motor Vehicle Levels of Service Exhibit for Unsignalized and Signallzed LOS Scales

Roadway Type	LOS determination
2-lane Roadway Segment	Percent Time Spent Following

See Description of Motor Vehicle Levels of Service Exhibit for 2-lane Roadway LOS Scale

Nearing Capacity when:

LOS =	D

Traffic Operations Summary– 2045 PM Peak Hour

PM Peak Hour

Updated August 2015

	US 51 Intersection	Overall Level of Service		
		Future No Build	Alternative A	Alternative H
Intersections	Farwell St (County MN)	Signalized B (2.78)	Signalized B (2.78)	Signalized C (3.26)
	Exchange St	Unsignalized # E (5.76)	Roundabout ★ A (1.88)	Roundabout ★ A (1.88)
	County B/AB	Unsignalized # F (6+)	Roundabout ★ B (2.11)	Roundabout ★ A (2.01)
	County B (East)	Unsignalized # F (6+)	Roundabout ★ A (1.89)	Roundabout ★ A (1.89)
	Roby Rd	Unsignalized # F (6+)	Roundabout ★ A (1.79)	Roundabout ★ A (1.74)
	WIS 138 (West)	Unsignalized # F (6+)	Roundabout ★ B (2.37)	Roundabout ★ B (2.33)
	Hoel Ave	Unsignalized # F (6+)	Unsignalized # F (6+)	Unsignalized # F (6+)
	County N	Signalized B (2.58)	Signalized B (2.58)	Signalized B (2.69)
	County N and County B (East)	All-Way-Stop C (3.61)	All-Way-Stop C (3.61)	All-Way-Stop C (3.61)
Downtown Stoughton	Van Buren St	Signalized A (1.82)	Signalized A (1.82)	Signalized A (1.83)
	Page St	Signalized B (2.12)	Signalized B (2.12)	Signalized A (1.64)
	Division St	Signalized A (1.75)	Signalized A (1.75)	Signalized A (1.86)
	S. 4th St	Signalized D (4.53)	Signalized D (4.53)	Signalized D (4.53)
Southbound LOS (Peak Direction)				
Two-Lane Roadway	US 51 Between Mahoney Rd and Dyreson Rd	E (5.39)	E (5.43)	E (5.43)
	US 51 Between Lake Kegonsa Rd and County B East	E (5.48)	E (5.52)	E (5.53)
	US 51 Between Washington Rd and Tower Dr	D (4.07)	B (2.53)	B (2.53)
Northbound LOS (Off-Peak Direction)				
Two-Lane Roadway	US 51 Between Mahoney Rd and Dyreson Rd	C (3.86)	C (3.88)	C (3.98)
	US 51 Between Lake Kegonsa Rd and County B East	D (4.58)	D (4.61)	D (4.60)
	US 51 Between Washington Rd and Tower Dr	B (2.66)	B (2.66)	B (2.53)

★ Roundabout or signal.

Level of Service (LOS) Values	
LOS (Alpha Value)	LOS (Numeric Value)
A	1.01 to 2.00
B	2.01 to 3.00
C	3.01 to 4.00
D	4.01 to 5.00
E	5.01 to 6.00
F	> 6.00

Intersection Type	LOS determination
Unsignalized	Delay for Poorest Intersection Movement
All-way-stop	Weighted average delay of all intersection movements
Roundabout	
Signalized	Weighted average delay of all intersection movements

See Description of Motor Vehicle Levels of Service Exhibit for Unsignalized and Signallzed LOS Scales

Roadway Type	LOS determination
2-lane Roadway Segment	Percent Time Spent Following

See Description of Motor Vehicle Levels of Service Exhibit for 2-lane Roadway LOS Scale

Nearing Capacity when:

LOS =	D