

Monroe Street

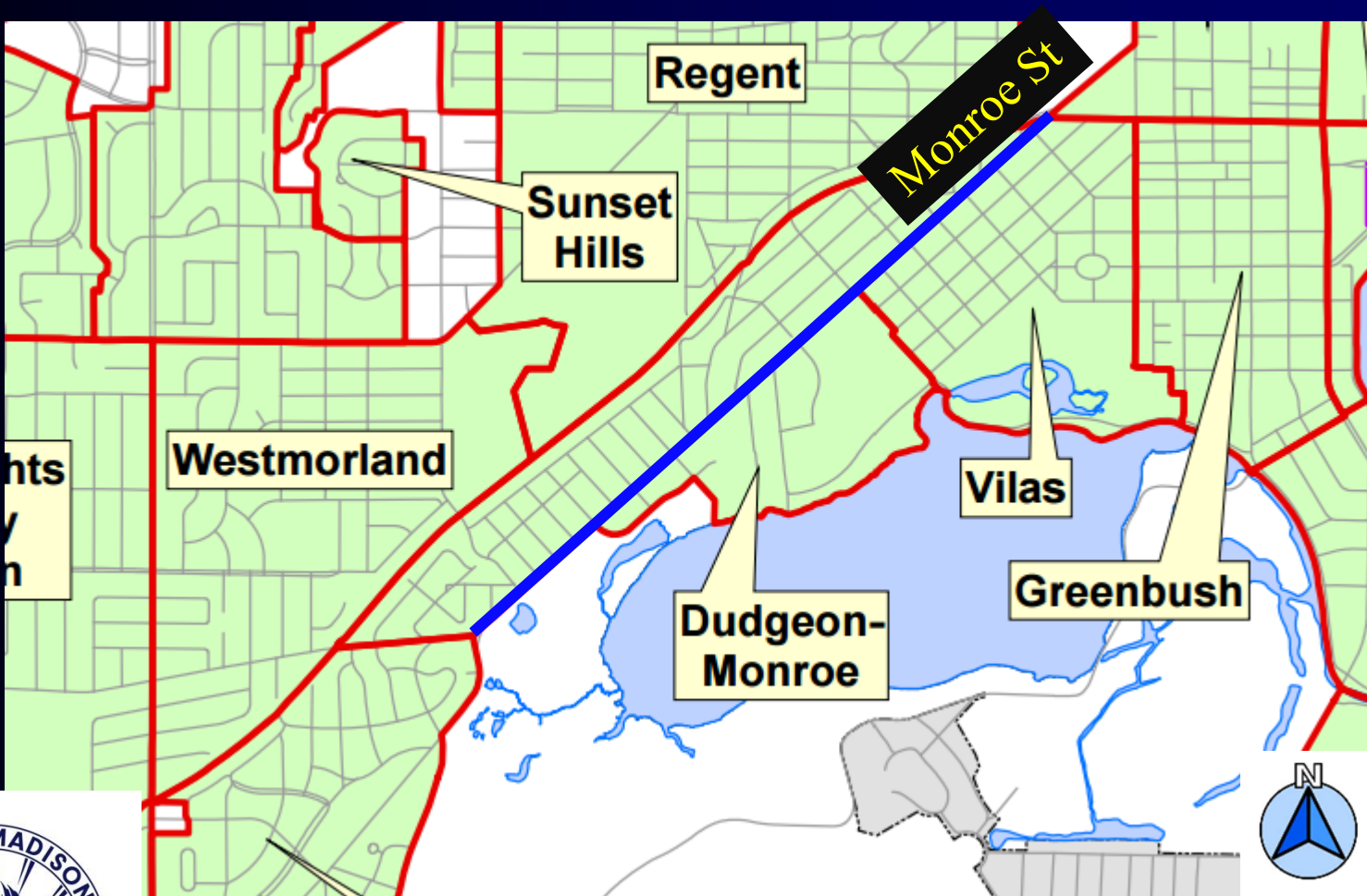
Ped Modifications

May 11, 2016

Hotel Red







Posted Speed Limit

Monroe St

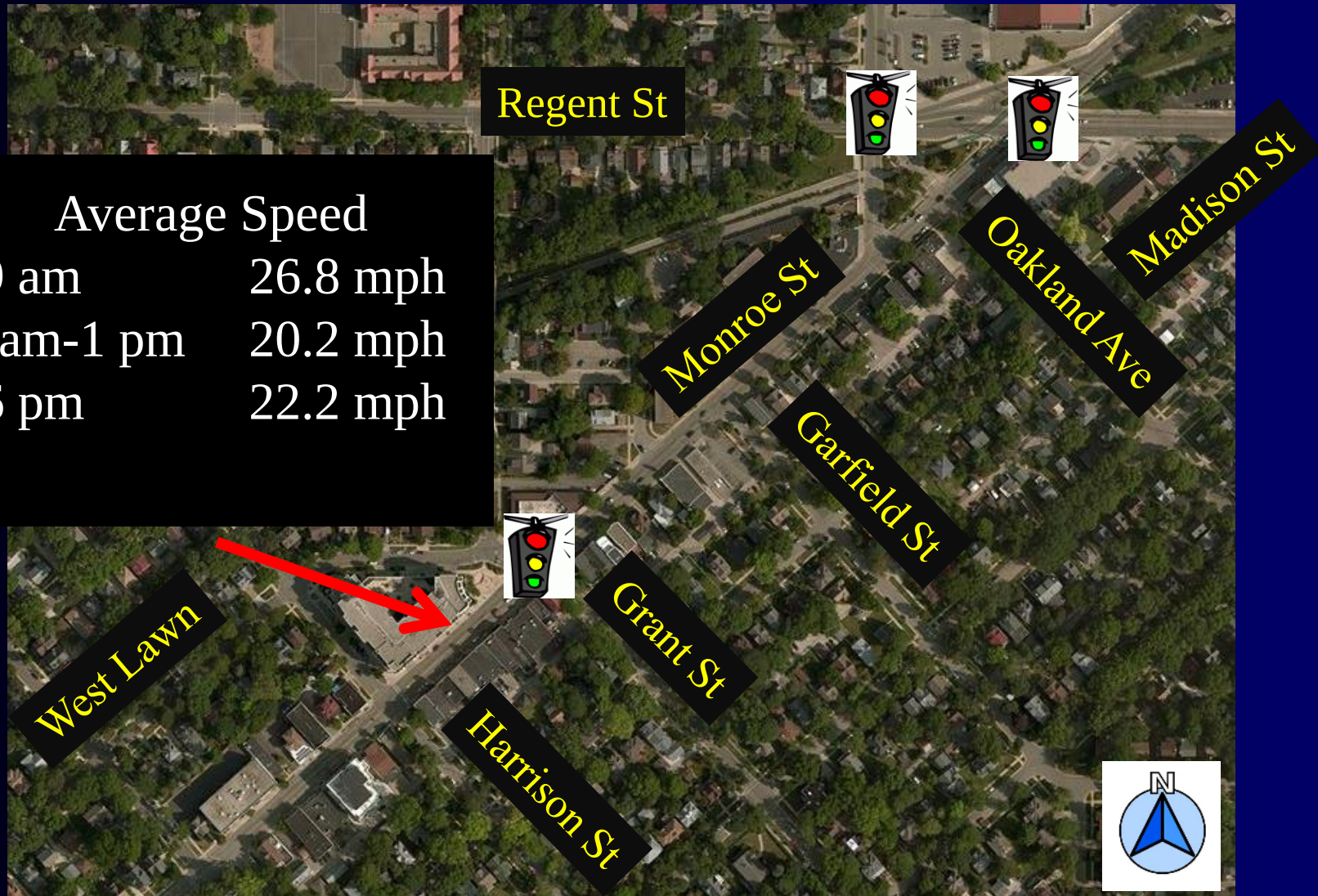
25 mph

30 mph



Some Background Data

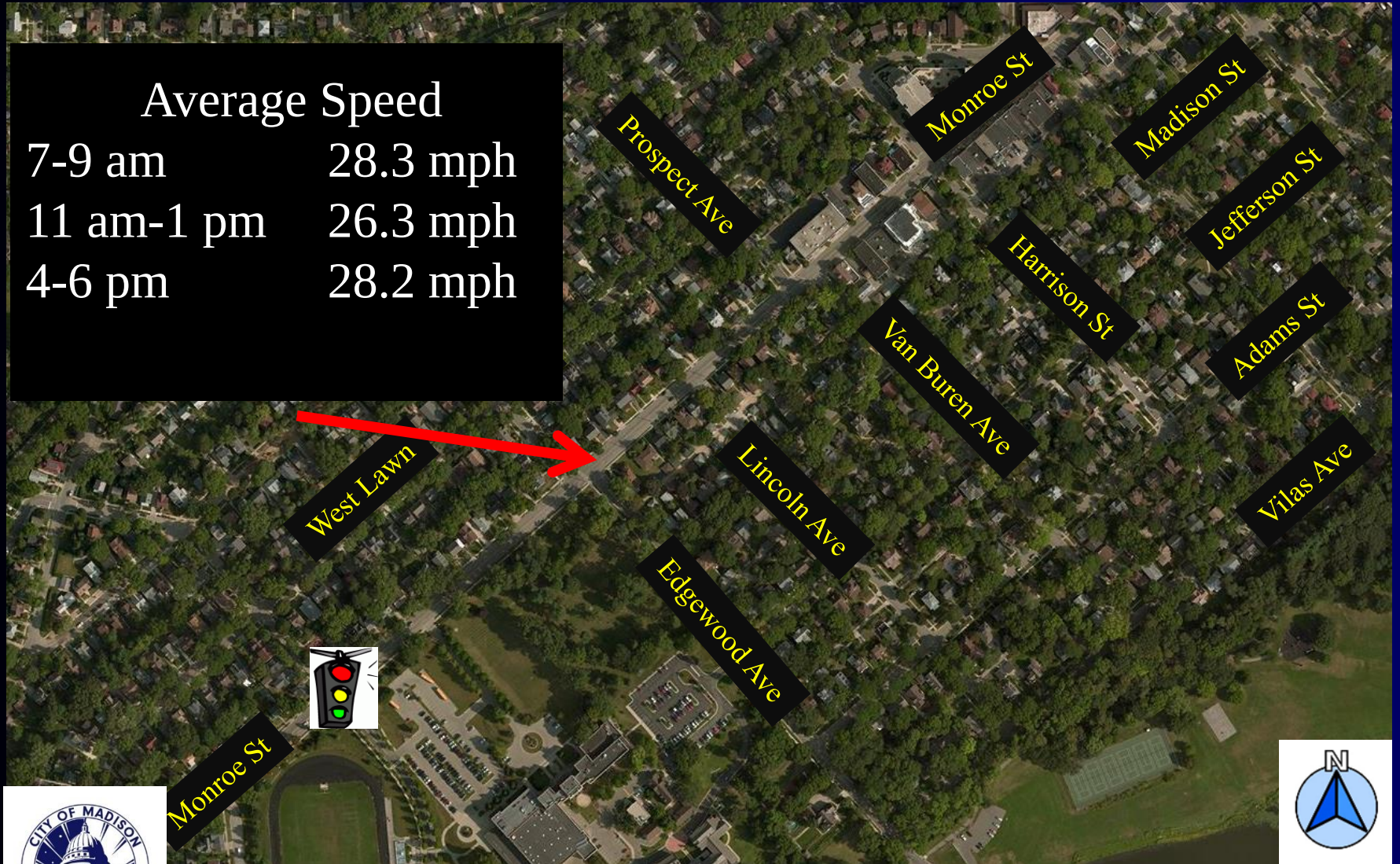
Average Speed	
7-9 am	26.8 mph
11 am-1 pm	20.2 mph
4-6 pm	22.2 mph



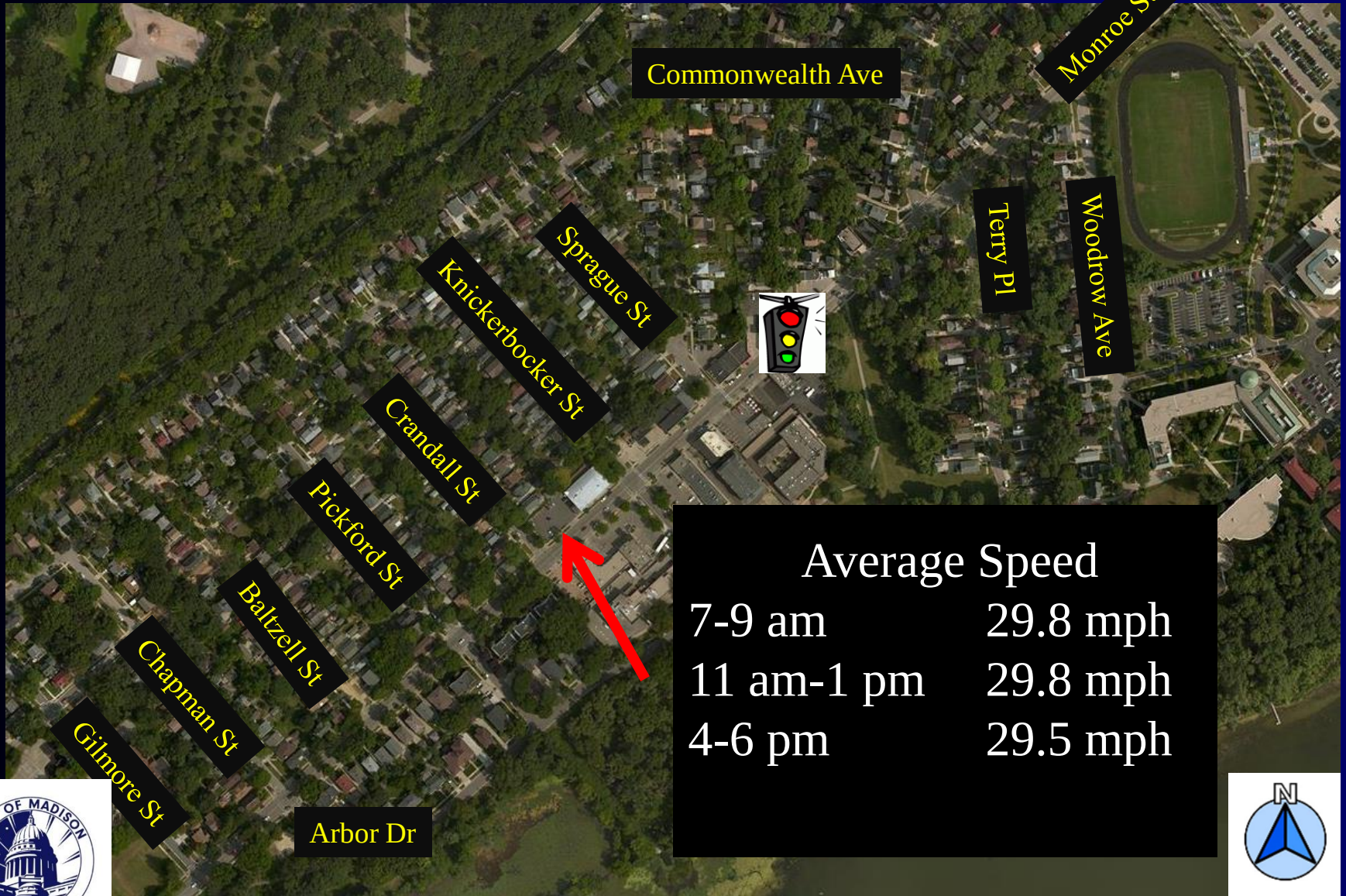
Source: TED, City of Madison, WI. May 8, 2015

Average Speed

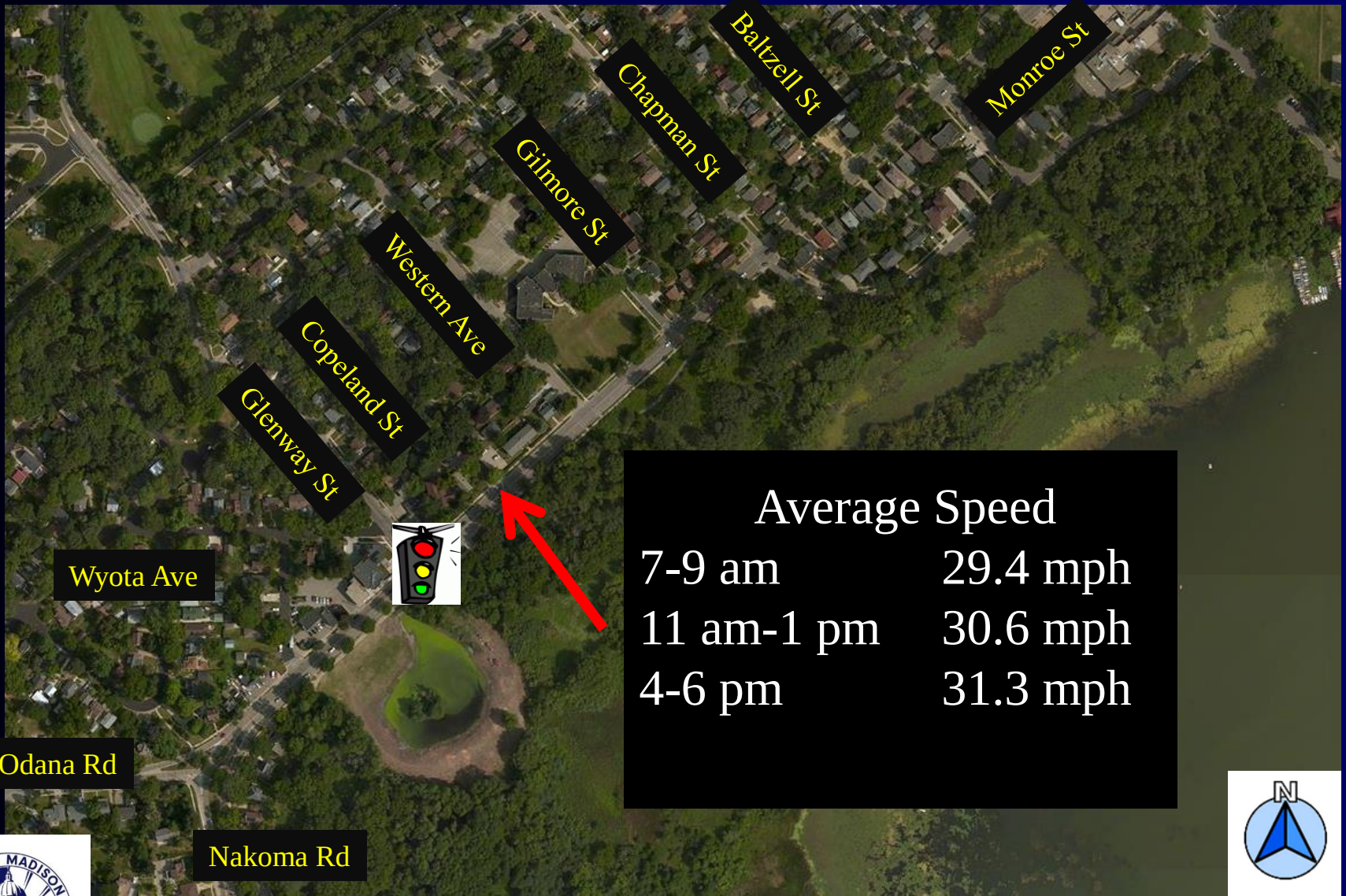
7-9 am	28.3 mph
11 am-1 pm	26.3 mph
4-6 pm	28.2 mph



Source: TED, City of Madison, WI. May 14, 2015



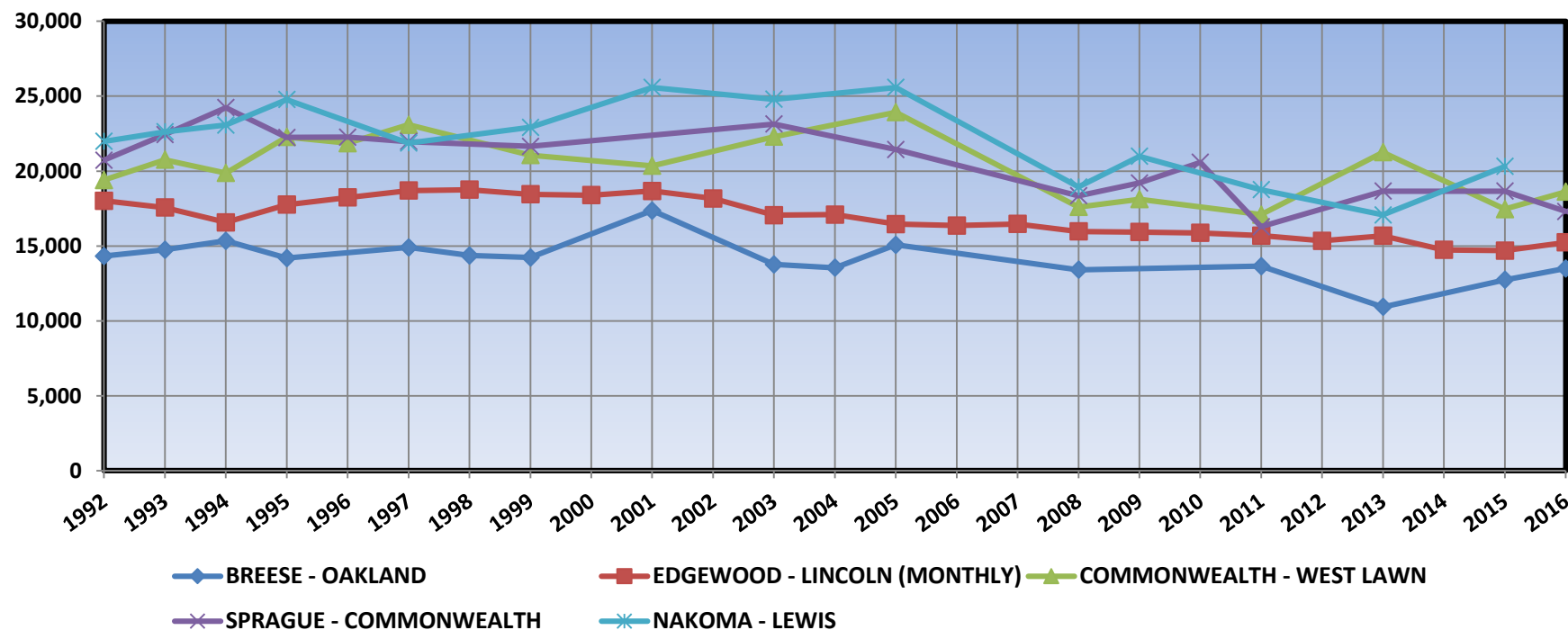
Source: TED, City of Madison, WI. May 7, 2015



Source: TED, City of Madison, WI. May 6, 2015

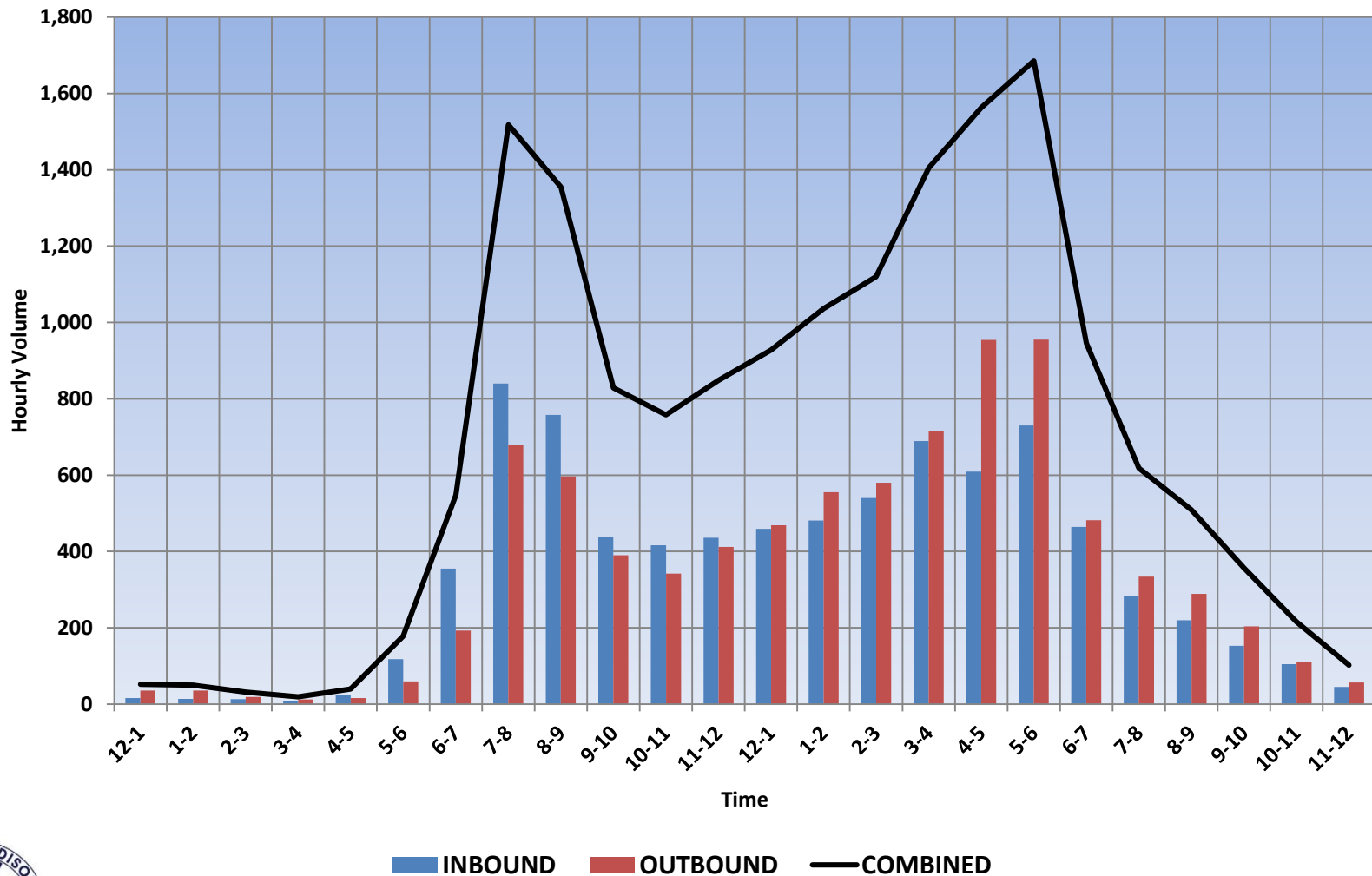
Monroe Street Volume

(Avg. Daily Traffic)



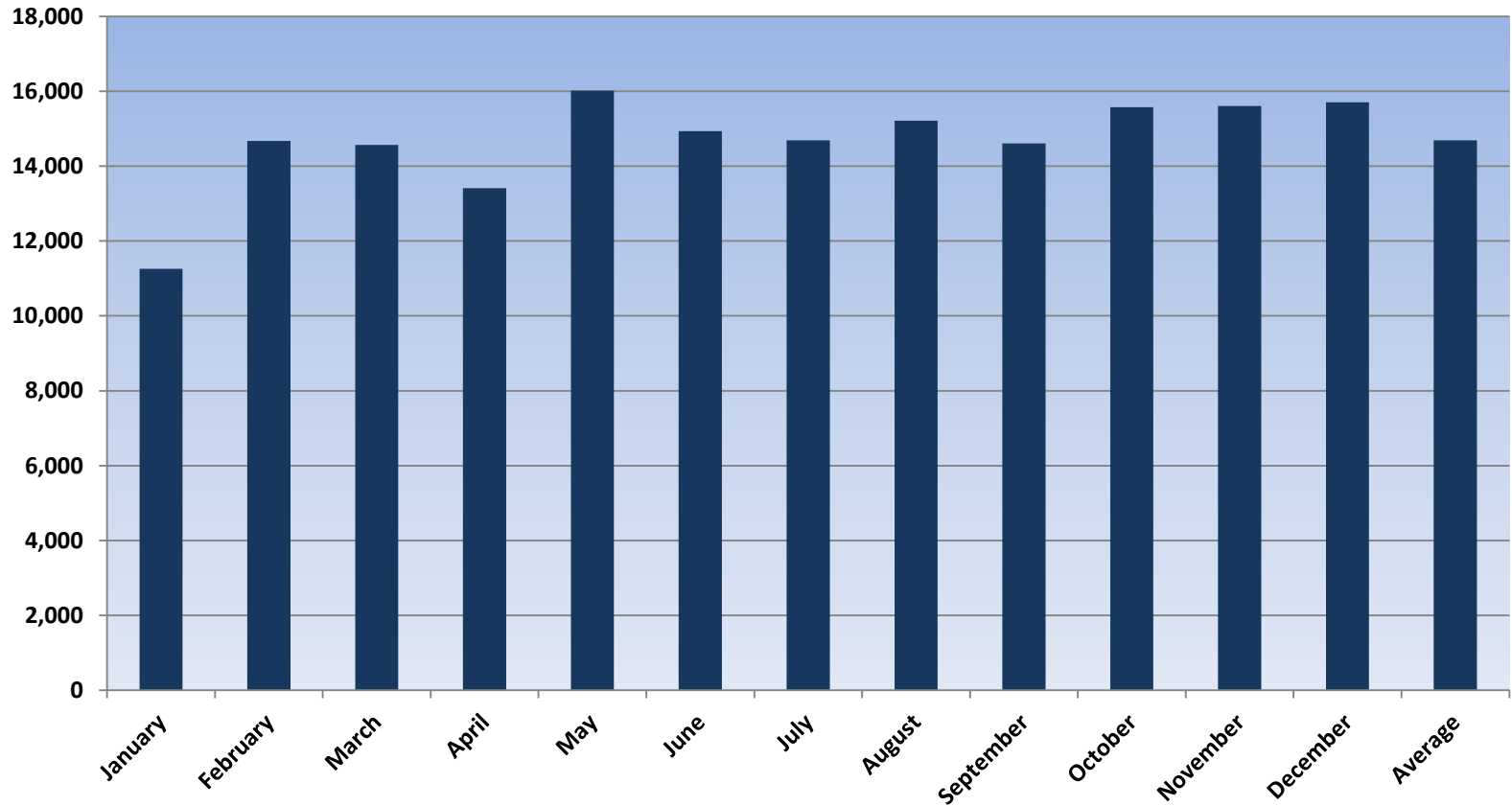
Monroe St Hourly Traffic Variation by Direction

Edgewood College Dr to Edgewood Ave March 2016



Monroe St. Monthly Traffic Variation

Edgewood-Lincoln

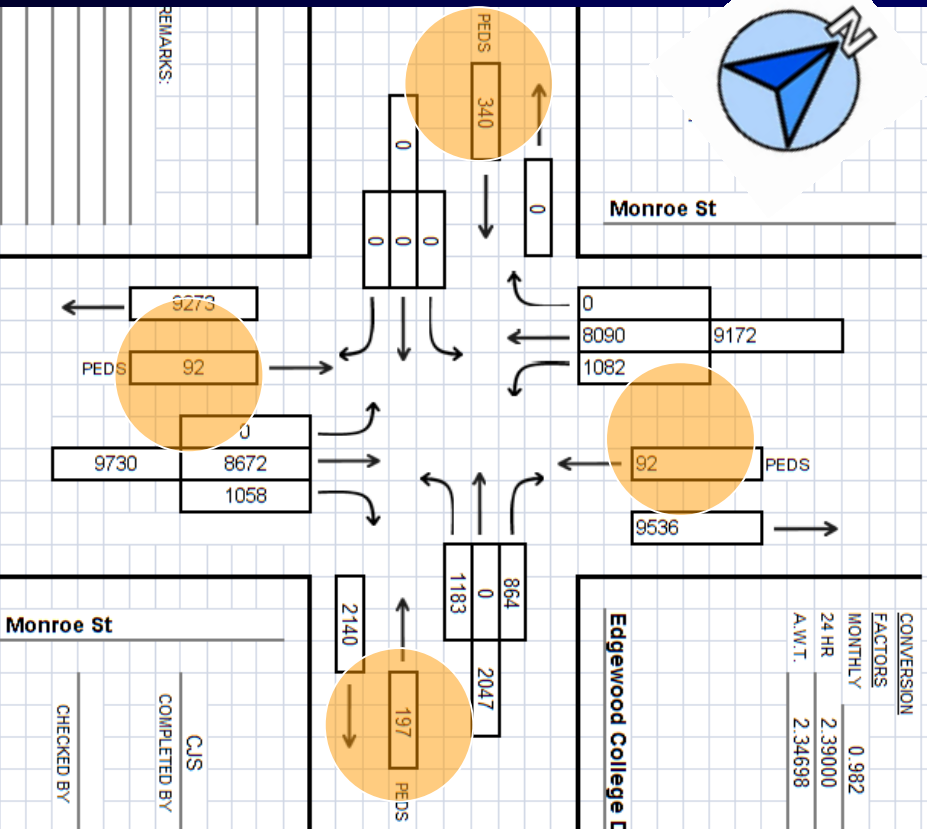


VEHICLE VOLUME COUNT GRAPHIC SUMMARY SHEET

INTERSECTION **Monroe St & Edgewood College Dr**
 DATE **11/10/2015** DAY **Tuesday** WEATHER **Partly Sunny** TIME **7-9a 11a-1p, 4-6p**



CONVERSION		
FACTORS		
MONTHLY		0.982
24 HR		2.39000
A.W.T.		2.34698



REMARKS:

CJS

COMPLETED BY

CHECKED BY



Monroe Street Pedestrian Crash Summary

Monroe Street Intersection		Number of Pedestrian Crashes			
		2000-2004	2005-2009	2010-2014	2015
Nakoma Road & Odana Road	XNG-Guard				
Lewis Court					1
Glenway Street	Signalized+		1	1	
Copeland Street					
Western Avenue					
Gilmore Street					
Arbor Drive & Chapman Street			1		
Baltzell Street					
Pickford Street					
Crandall Street					
Knickerbocker Street				1	
Sprague Street		1			
Commonwealth Avenue	Signalized	1			1
West Lawn Avenue					
Terry Place					1
Woodrow Street		1			
Edgewood College Drive	Signalized				
Edgewood Avenue (W)	XNG-Guard				
Edgewood Avenue (E)			1		
Lincoln Street					
S Prospect Avenue				2	
Van Buren Street			1		
Harrison Street					
Grant Street	Signalized+		2	1	
Stockton Court					
Garfield Street		2			
S Breese Terrace		1			
Crazylegs Lane					
TOTAL		6	6	5	3

20

Signalized+ A signalized intersection supplemented with an adult crossing guard



Monroe Street Pedestrian Crashes

2000-2015**

WisDotNum	Monroe Street Intersection	Crash Date	Crash Day		Crash Time	Light Condition	Road Condition	Weather Condition
7286377	Chapman St	5/13/2005	Friday		0800	Daylight	Dry	Cloudy
9BH4V20	Commonwealth Avenue	2/24/2015	Tuesday	Signalized	1523	Daylight	Dry	Clear
7475630	Comonwealth Avenue	11/1/2001	Thursday	Signalized	1725	Night	Dry	Cloudy
7783341	Edgewood Avenue (E)	11/7/2005	Monday		1623	Daylight	Dry	Clear
7208453	Garfield Street	12/8/2000	Friday		2205	Night	Unknown	Clear
7466573	Garfield Street	11/15/2001	Thursday		1344	Daylight	Dry	Clear
7415307	Glenway Street	3/4/2006	Saturday	Signalized	0819	Daylight	Dry	Clear
9BCZ9DD	Glenway Street	4/9/2010	Friday	Signalized	1501	Daylight	Dry	Clear
7466866	Grant Street	11/11/2008	Tuesday	Signalized	1650	Dark-Unlit	Wet	Cloudy
8125331	Grant Street	1/31/2005	Monday	Signalized	1930	Dark-Lighted	Unknown	Cloudy
9BH4V13	Grant Street	11/29/2014	Saturday	Signalized	1024	Daylight	Dry	Clear
9BFCJ60	Knickerbocker Street	4/26/2012	Thursday		1801	Daylight	Dry	Clear
9BGX68N	Lewis Court	11/19/2015	Thursday		2025	Dark-Lighted	Dry	Clear
7164196	S Breese Terrace	11/19/2004	Friday		1558	Daylight	Wet	Rain
9BCF0FS	S Prospect Avenue	4/18/2012	Wednesday		2111	Dark-Unlit	Dry	Clear
9BGFCNR	S Prospect Avenue	4/17/2012	Tuesday		1617	Daylight	Dry	Cloudy
7690415	Sprague Street	10/6/2003	Monday		1726	Daylight	Dry	Cloudy
9BLJBJ6	Terry Place	1/6/2015	Thursday		1554	Daylight	Snow	Cloudy
8602456	Van Buren Street	9/29/2007	Saturday		1938	Dark-Lighted	Wet	Clear
7173499	Woodrow Street	11/30/2004	Tuesday		1703	Dark-Lighted	Unknown	Clear

****2015 Preliminary Crashes Jan.-Nov.**

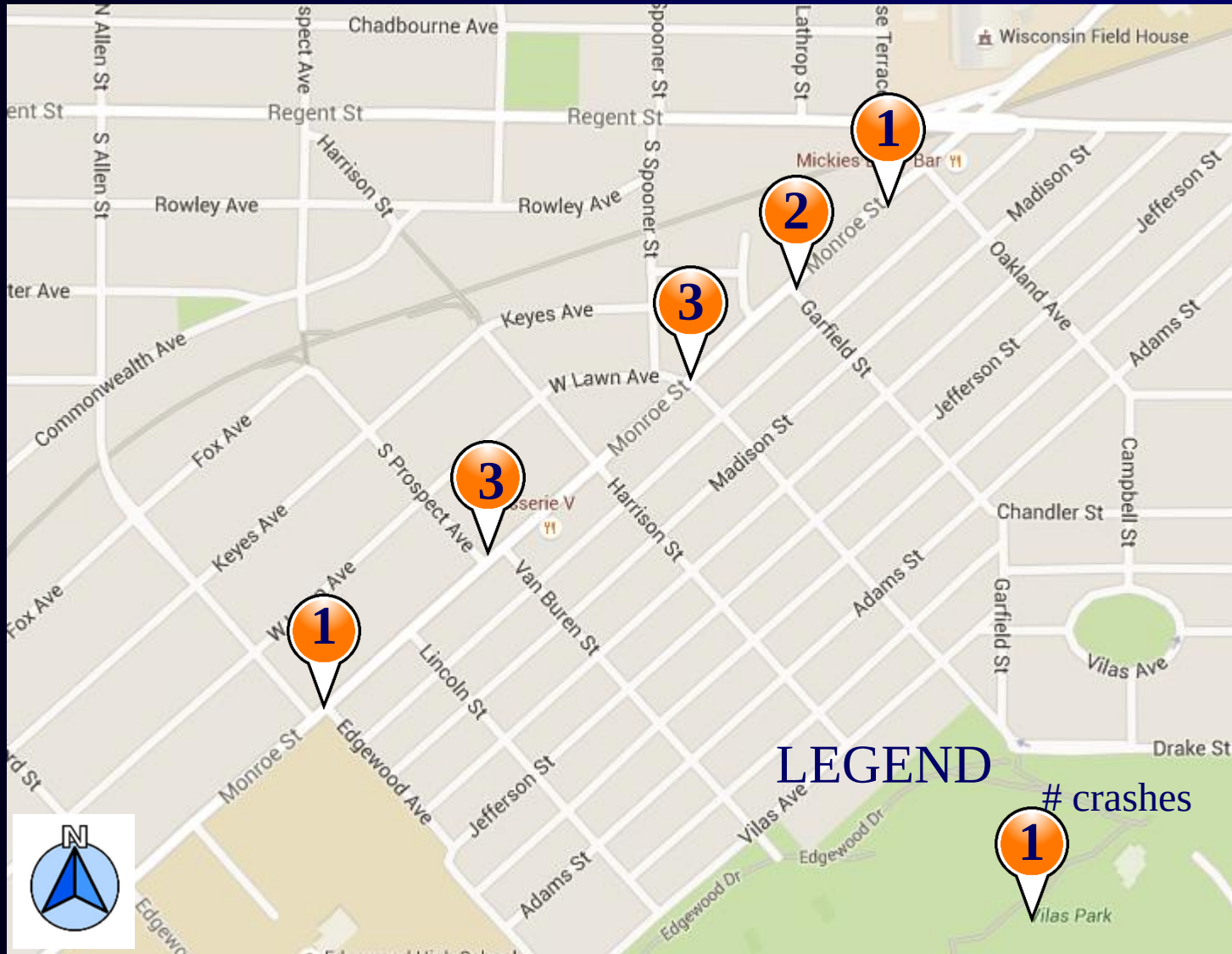


15+ Years of Ped Stats

- Thursday peak day for ped crashes
- All ped crashes were injury related
- 60% of crashes occur in daylight 65% in dry weather conditions
- 6 of the 20 ped crashes during hours when pm peak hour restriction in effect, 3 of these involved a vehicle in the outbound direction
- 68% of crashes occurred at non-signal locations. Driver cited in 65% of crashes



Ped Crashes 2000-'15



Ped Crashes 2000-'15





Bike Crash Summary				
Monroe Street Intersection		Number of Bike Crashes		
		2000-2004	2005-2009	2010-2014
Nakoma Road & Odana Road				
Lewis Court				1
Glenway Street	Signalized	1		
Copeland Street				
Western Avenue				
Gilmore Street				
Arbor Drive & Chapman Street			1	
Baltzell Street				
Pickford Street				
Crandall Street				
Knickerbocker Street		1	1	
Sprague Street				
Commonwealth Avenue	Signalized	1	1	1
West Lawn Avenue				
Terry Place				
Woodrow Street				
Edgewood College Drive	Signalized			1
Edgewood Avenue (W)			1	
Edgewood Avenue (E)				
Lincoln Street				
S Prospect Avenue				
Van Buren Street				
Harrison Street				
Grant Street	Signalized		1	1
Stockton Court				
Garfield Street		1		
S Breese Terrace				
Crazylegs Lane				1
	TOTAL	4	5	5

14 Total



Monroe Street					
Crash Summary (Intersection Crashes)					
Monroe Street Intersection		Number of Crashes			Avg. Per Year
		2000-2004	2005-2009	2010-2014	
Nakoma Road & Odana Road		13	22	15	3.3
Lewis Court		1	1	2	0.3
Glenway Street	Signalized	13	3	6	1.5
Copeland Street		0	0	2	0.1
Western Avenue		0	0	0	0.0
Gilmore Street		0	0	2	0.1
Arbor Drive & Chapman Street		1	2	1	0.3
Baltzell Street		0	0	0	0.0
Pickford Street		2	2	1	0.3
Crandall Street		1	0	0	0.1
Knickerbocker Street		7	3	4	0.9
Sprague Street		3	3	3	0.6
Commonwealth Avenue	Signalized	5	4	7	1.1
West Lawn Avenue		2	2	3	0.5
Terry Place		3	0	1	0.3
Woodrow Street		5	2	3	0.7
Edgewood College Drive	Signalized	0	2	1	0.2
Edgewood Avenue (W)		5	6	6	1.1
Edgewood Avenue (E)		3	1	2	0.4
Lincoln Street		3	0	1	0.3
S Prospect Avenue		2	1	6	0.6
Van Buren Street		0	3	1	0.3
Harrison Street		2	3	3	0.5
Grant Street	Signalized	15	11	6	2.1
Stockton Court		0	0	4	0.3
Garfield Street		5	1	1	0.5
S Breese Terrace		1	2	1	0.3
Crazylegs Lane		8	4	9	1.4
Total		100	78	91	

Total
269

Monroe Street Midblock Crash Summary

Monroe Street Block	Number of Crashes			Avg. Per Year
	2002-2004*	2005-2009	2010-2014	
3600 Monroe St	0	0	2	0.2
3500 Monroe St	4	7	9	1.5
3400 Monroe St	1	2	1	0.3
3300 Monroe St	0	3	1	0.3
3200 Monroe St	1	6	3	0.8
3100 Monroe St	0	1	3	0.3
3000 Monroe St	1	1	6	0.6
2900 Monroe St	3	1	6	0.8
2800 Monroe St	2	1	1	0.3
2700 Monroe St	5	6	7	1.4
2600 Monroe St	6	5	4	1.2
2500 Monroe St	10	8	7	1.9
2400 Monroe St	7	12	7	2.0
2350 Monroe St	6	2	5	1.0
2300 Monroe St	6	6	8	1.5
2200 Monroe St	7	16	13	2.8
2100 Monroe St	3	5	4	0.9
2000 Monroe St	1	6	2	0.7
1900 Monroe St	3	9	9	1.6
1800 Monroe St	5	9	11	1.9
1750 Monroe St	1	4	3	0.6
1700 Monroe St	1	3	1	0.4
1615-1640 Monroe St	1	3	1	0.4
1600-1610 Monroe St	2	2	0	0.3
1500 Monroe St	4	6	6	1.2
Total	80	124	120	

Total
324



* No midblock records from before 2002

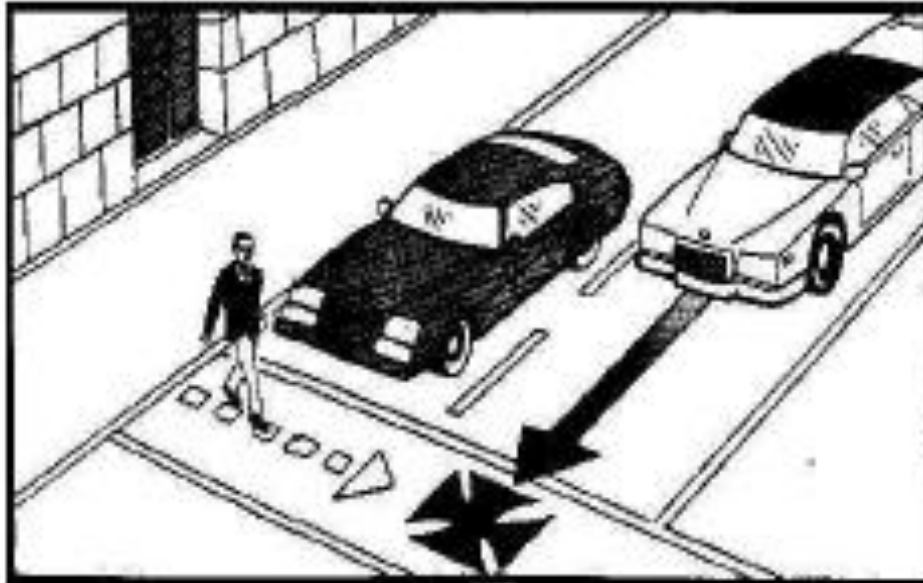


Illustration of multiple-threat pedestrian crash.

Multiple Threat Crash

A motorist that stops for a crossing ped can obscure the view of the ped from another motorist approaching in the adjacent lane. If the second motorist does not respond accordingly it creates the potential for a crossing pedestrian to step out in front of an approaching vehicle with potentially dire consequences.



Ped Crossing Treatment

Rapid Rectangular
Flashing Beacon (RRFB)

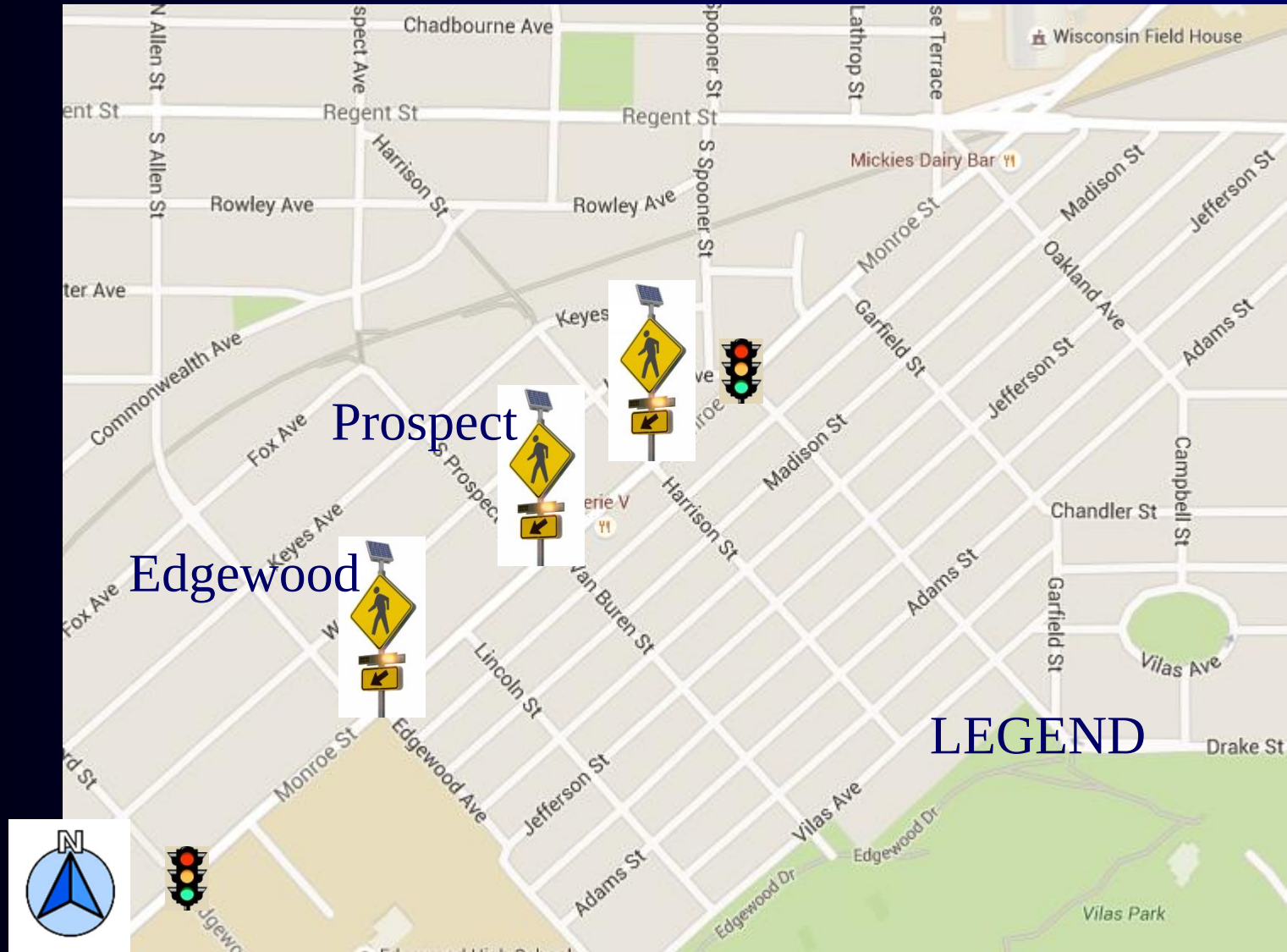


Rectangular Rapid Flashing Beacon (RRFB)

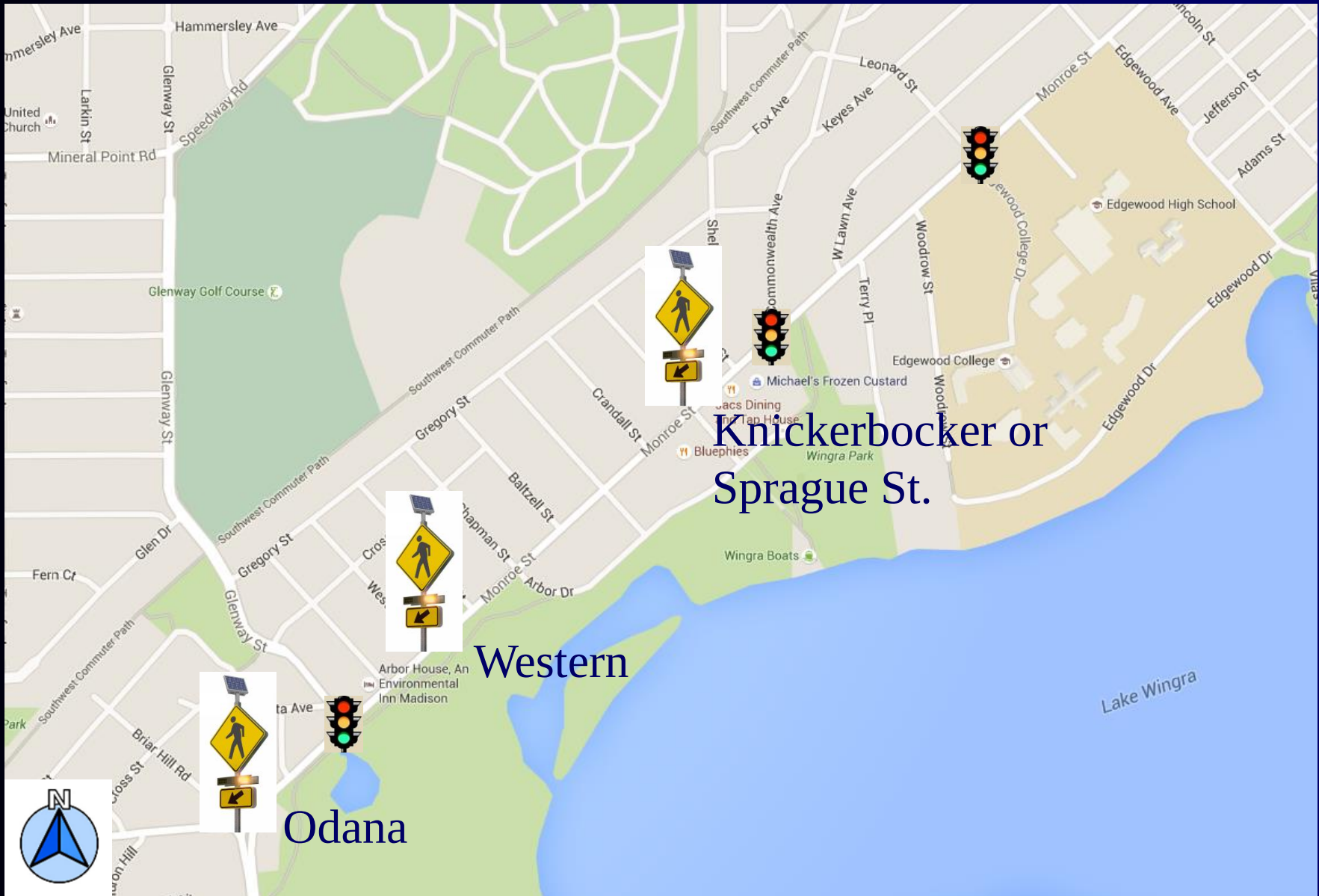
- Is a bright yellow LED strobe that is highly visible
- Reduces multiple threat conditions
- Good motorist compliance
- Solar power capable
- Cost effective



Ped Crashes 2000-'15



Ped Crashes 2000-'15



Ped Treatment Recommended At:

- Harrison (Trader Joes)
- Prospect
- Edgewood Ave
- Knickerbocker or Sprague St
- Western
- Odana

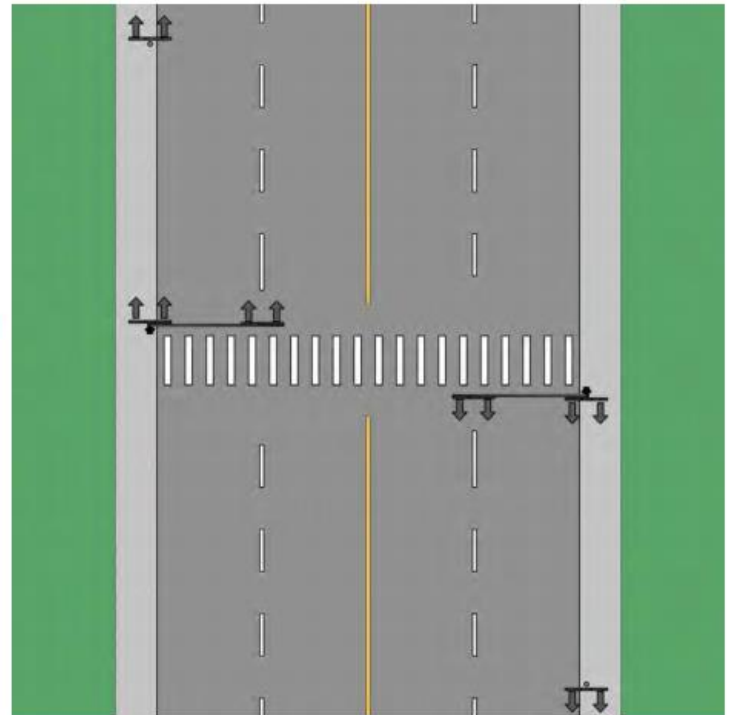
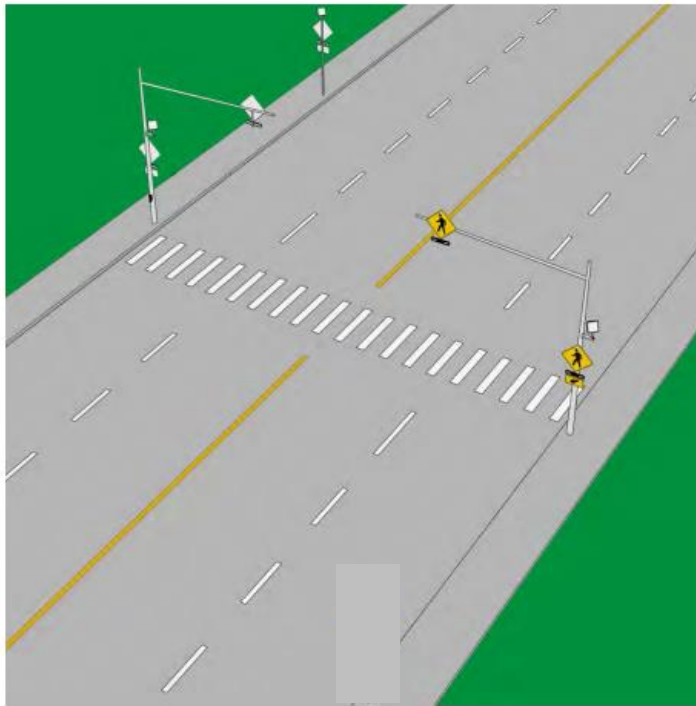


Ped Crossing Treatment

Ped button activated

Rectangular Rapid Flashing Beacon Typical Installations

Overhead Two-Way Road



Questions?

