
Memorandum

The City of Traverse City
Engineering Department



TO: Timothy J. Lodge, P.E., City Engineer
FROM: Nicholas L. Tafelsky, Seasonal Engineering Aide 
DATE: Friday, May 22nd, 2015
SUBJECT: Eighth Street at Boardman Pre and Post Striping Bicyclist and Pedestrian Counts

This memo is to formalize the findings from two Bicyclist and Pedestrian Counts on Eighth Street at Boardman Avenue, one pre-striping and the other post-striping. The pre-striping count took place in August of 2014, and the post-striping count took place in May of 2015. Both counts observed pedestrians and cyclists utilizing the crosswalks at the intersection of Boardman Ave and Eighth St as well as cyclists utilizing both the sidewalks and bike lanes along Eighth Street just west of Boardman Ave.

Through a spreadsheet analysis of the bicyclist and pedestrian counts, percent changes were calculated for bicycles on the sidewalk and in the bike lane. Observational evidence shows that cyclists were less likely to use the sidewalks post-striping. However, due to the small sample size of the bicyclist and pedestrian counts, as well as the short time frame (8 hours total), there may not be adequate statistical significance to validate the observation findings. These statistics are provided in the table below:

	Bike Lane	Sidewalk
Pre-striping	3	33
Post-striping	5	20
Percent Change	+67%	-39%

Encl.: Eighth St. Pedestrian and Bike Count Before/After Study

Eighth St. Pedestrian and Bike Count Before/After Study

General Information

Conditions			
Date	Day	Around Lunch	Afternoon
8/7/2014	Thursday	N/A	Partly Cloudy, 81°
8/28/2014	Thursday	Mostly Cloudy, 64°	N/A
5/19/2015	Tuesday	N/A	Sunny, 74°
5/21/2015	Thursday	Sunny, 55°	N/A

Pedestrian and Bicycle Count Around Lunch

Time	Adults	Children/Teens	Elderly	Disabled	Bicycles		Coaster Toys		Other	Total
					Bike Lane	Side Walk	Bike Lane	Sidewalk		
11:30 AM	Pre	11	0	2	0	5	0	0	0	18
	Post	5	0	0	0	2	1	0	0	8
11:45 AM	Pre	9	1	0	0	2	5	0	0	17
	Post	3	0	0	0	0	2	0	1	6
12:00 Noon	Pre	4	1	0	0	0	6	0	0	11
	Post	12	0	0	0	1	6	0	0	19
12:15 PM	Pre	7	1	1	0	1	2	0	0	13
	Post	9	0	1	0	1	1	0	0	12
12:30 PM	Pre	14	0	0	0	0	4	0	0	18
	Post	5	0	0	0	0	3	0	0	8
12:45 PM	Pre	7	0	2	0	0	4	0	0	13
	Post	6	0	0	0	0	3	0	0	9
1:00 PM	Pre	10	0	0	0	0	4	0	2	16
	Post	11	0	0	0	0	1	0	0	12
1:15 PM	Pre	6	0	0	0	0	3	0	0	9
	Post	7	0	0	0	1	3	0	0	11

Before Notes: Pedestrians and bikes crossing Eighth St and never going on this section of Eighth St were not counted. Bikes and pedestrians heading to Boardman Lake Trail: 13. A good number of people parking on E Eighth St across from Lake Ave to go to lunch at the French Bistro on the corner. A good number of people trying to cross Eighth St at Lake Ave, but also a good number trying to cross where the Boardman Lake

Trail is as well.

Eighth St. Pedestrian and Bike Count Before/After Study

Pedestrian and Bicycle Count Afternoon

Time	Adults	Children/Teens	Elderly	Disabled	Bicycles		Coaster Toys		Other	Total
					Bike Lane	Side Walk	Bike Lane	Sidewalk		
3:00 PM	Pre	3	0	0	2	3	0	0	1	9
	Post	4	0	0	1	5	0	0	0	10
3:15 PM	Pre	13	4	0	0	10	0	0	2	29
	Post	6	0	0	1	2	0	0	0	9
3:30 PM	Pre	6	4	0	0	3	6	0	0	19
	Post	4	2	0	0	0	2	0	0	8
3:45 PM	Pre	3	1	0	0	3	4	0	0	11
	Post	5	0	0	0	0	6	0	0	11
4:00 PM	Pre	8	0	0	0	1	7	0	1	17
	Post	7	0	0	0	2	3	0	0	12
4:15 PM	Pre	5	2	0	0	0	8	0	0	15
	Post	2	1	0	0	2	3	0	0	8
4:30 PM	Pre	6	0	0	0	2	9	0	0	17
	Post	7	0	0	0	1	5	0	0	13
4:45 PM	Pre	11	2	0	0	1	6	0	0	20
	Post	6	0	0	0	1	6	0	0	13

Pedestrains and bicyclists crossing Eighth St but not going onto this section of Eighth St were not counted. At 3:15 pm a large family walked home, leading to a higher pedestrian count, and a smaller one at 3:30 and 4:45 pm. A good number of people try to cross Eighth St at Lake Ave.

Before Notes:	After Notes:
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