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2024-10-07
Project: 240559

Meagen Sanderson
W.E. Oughtred & Associates Inc.
2140 Winston Park Drive, Suite 26
Oakville, ON L6H 5V5

RE: 7265 5 SIDE ROAD, TOWN OF MILTON – TRIP GENERATION LETTER ADDENDUM

Paradigm Transportation Solutions Limited (Paradigm) prepared a Transportation Impact Assessment¹ (TIA) in October 2021 for the 7265 5 Side Road property in the Town of Milton.

The previous study assumed the development of a 20,074-square-foot truck rental agency, estimated to generate 50 AM and 79 PM peak-hour trips. Since then, the owner has proposed to update the site use to provide for on-site truck sales. No building, access, or on-site parking supply modification is being proposed.

As a result, Paradigm has been retained to prepare a trip generation letter that includes the updated trip projection from the previously approved TIA to examine the impacts of the additional land use.

Traffic Count

As the site is operational, a turning movement count was conducted in September 2024 during a typical weekday to determine how much traffic the site generates as a truck rental agency. The turning movement count indicates the site generates 19 AM and 25 PM peak hour trips, which are 31 - 54 fewer trips than initially projected in the October 2021 TIS. **Appendix A** includes the count data.

¹ "7260 No.5 Side Road Transportation Impact Assessment (4th Submission)", Milton ON, Paradigm, October 2021.

Trip Generation

The rate at which any development generates traffic depends upon several factors, such as size, location and concentration of surrounding developments. To estimate the traffic volume generated by the development, traffic projections were based on trip generation data published in ITE’s Trip Generation Manual, 11th Edition². The following land uses (LUC) have been utilized:

- ▶ **Land Use Code (LUC) 840 - Automobile Sales** - A new automobile sales dealership is typically located along a major arterial street characterized by abundant commercial development. The sale or leasing of new cars is the primary business at these facilities. However, the land use also commonly provides automobile servicing, parts sales, and used car sales. The dealerships may also provide truck sales and servicing.

Table 1 summarizes the projected trip generation associated with the development's new use. These estimates were based on the standardized ITE rates.

TABLE 1: ESTIMATED TRIP GENERATION

ITE Land Use Code / Number of Units	Rate	AM Peak Hour			PM Peak Hour		
		In	Out	Total	In	Out	Total
840 - Automobile Sales -20,074 square-foot	1.86	27	10	37	23	34	57
Total Generation		27	10	37	23	34	57

Equations

LUC 840 Eqn Per Unit PM T = 1.81(X) + 20.91

With the additional land use, approximately 37- 57 new trips are forecast to be added to the area roadways during the weekday AM and PM peak hours. Adding the additional trips projected to the existing traffic generated on-site equates to a total trip generation of 56 AM and 82 PM peak-hour trips.

² Trip Generation Eleventh Edition, Institute of Transportation Engineers, Washington D.C., 2021



Conclusions

The proposed expansion of the existing truck rental site is projected to generate an additional 37 and 57 vehicle trips during the AM and PM peak hours, respectively. Combined with the current weekday peak hour traffic, this results in an increase of 6 AM and 3 PM trips compared to the total 2021 trip forecasts. As a result, the overall trip generation estimates remain unchanged and do not alter the conclusions of the October 2021 study.

Feel free to contact the undersigned with any questions or to discuss this further.

Yours very truly,

PARADIGM TRANSPORTATION SOLUTIONS LIMITED



Adam J. Makarewicz
Dipl.T., C.E.T. MITE
Senior Project Manager



Stew Elkins
B.E.S., MITE
Vice President



Appendix A

SITE DRIVEWAY TRAFFIC DATA





Paradigm Transportation Solutions Limited
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Count Name: 7265 5 Side Road
Site Code: 240559
Start Date: 09/11/2024
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Turning Movement Data

Start Time	7265 5 Side Road Driveway Eastbound					5 Side Road Northbound					5 Side Road Southbound					Int. Total
	Left	Right	U-Turn	Peds	App. Total	Left	Thru	U-Turn	Peds	App. Total	Thru	Right	U-Turn	Peds	App. Total	
7:00 AM	0	0	0	0	0	2	17	0	0	19	24	4	0	0	28	47
7:15 AM	0	0	0	0	0	1	15	0	0	16	25	0	0	0	25	41
7:30 AM	1	0	0	0	1	2	26	0	0	28	20	0	0	0	20	49
7:45 AM	0	0	0	0	0	3	23	0	0	26	41	3	0	0	44	70
Hourly Total	1	0	0	0	1	8	81	0	0	89	110	7	0	0	117	207
8:00 AM	0	3	0	0	3	6	22	0	0	28	30	4	0	0	34	65
8:15 AM	0	0	0	0	0	0	17	0	0	17	25	0	0	0	25	42
8:30 AM	0	0	0	0	0	0	28	0	0	28	25	0	0	0	25	53
8:45 AM	0	1	0	0	1	1	14	0	0	15	18	0	1	0	19	35
Hourly Total	0	4	0	0	4	7	81	0	0	88	98	4	1	0	103	195
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11:00 AM	0	1	0	0	1	0	10	0	0	10	17	0	0	0	17	28
11:15 AM	0	1	0	0	1	0	9	0	0	9	7	0	0	0	7	17
11:30 AM	1	0	0	0	1	1	15	0	0	16	16	1	0	0	17	34
11:45 AM	0	0	0	0	0	1	6	0	0	7	17	0	0	0	17	24
Hourly Total	1	2	0	0	3	2	40	0	0	42	57	1	0	0	58	103
12:00 PM	1	0	0	0	1	0	13	0	0	13	20	0	1	0	21	35
12:15 PM	0	1	0	0	1	2	15	0	0	17	27	0	0	0	27	45
12:30 PM	0	0	0	0	0	2	10	0	0	12	11	0	0	0	11	23
12:45 PM	0	3	0	1	3	2	21	0	0	23	16	0	0	0	16	42
Hourly Total	1	4	0	1	5	6	59	0	0	65	74	0	1	0	75	145
1:00 PM	0	1	0	0	1	2	15	0	0	17	9	0	0	0	9	27
1:15 PM	0	2	0	0	2	4	17	0	0	21	22	0	0	0	22	45
1:30 PM	0	1	0	0	1	1	12	0	0	13	21	0	0	0	21	35
1:45 PM	0	2	0	0	2	1	22	0	0	23	24	0	0	0	24	49
Hourly Total	0	6	0	0	6	8	66	0	0	74	76	0	0	0	76	156
*** BREAK ***	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3:00 PM	0	1	0	0	1	0	20	0	0	20	40	0	1	0	41	62
3:15 PM	0	2	0	0	2	0	20	0	0	20	48	0	0	0	48	70
3:30 PM	0	0	0	0	0	0	30	0	0	30	54	0	0	0	54	84
3:45 PM	0	0	0	0	0	1	27	0	0	28	50	0	0	0	50	78
Hourly Total	0	3	0	0	3	1	97	0	0	98	192	0	1	0	193	294
4:00 PM	1	1	0	0	2	0	25	0	0	25	59	0	0	0	59	86
4:15 PM	2	4	0	0	6	1	41	0	0	42	44	0	0	0	44	92
4:30 PM	3	6	0	0	9	1	41	0	0	42	56	0	0	0	56	107
4:45 PM	1	1	0	1	2	0	32	0	0	32	51	0	0	1	51	85

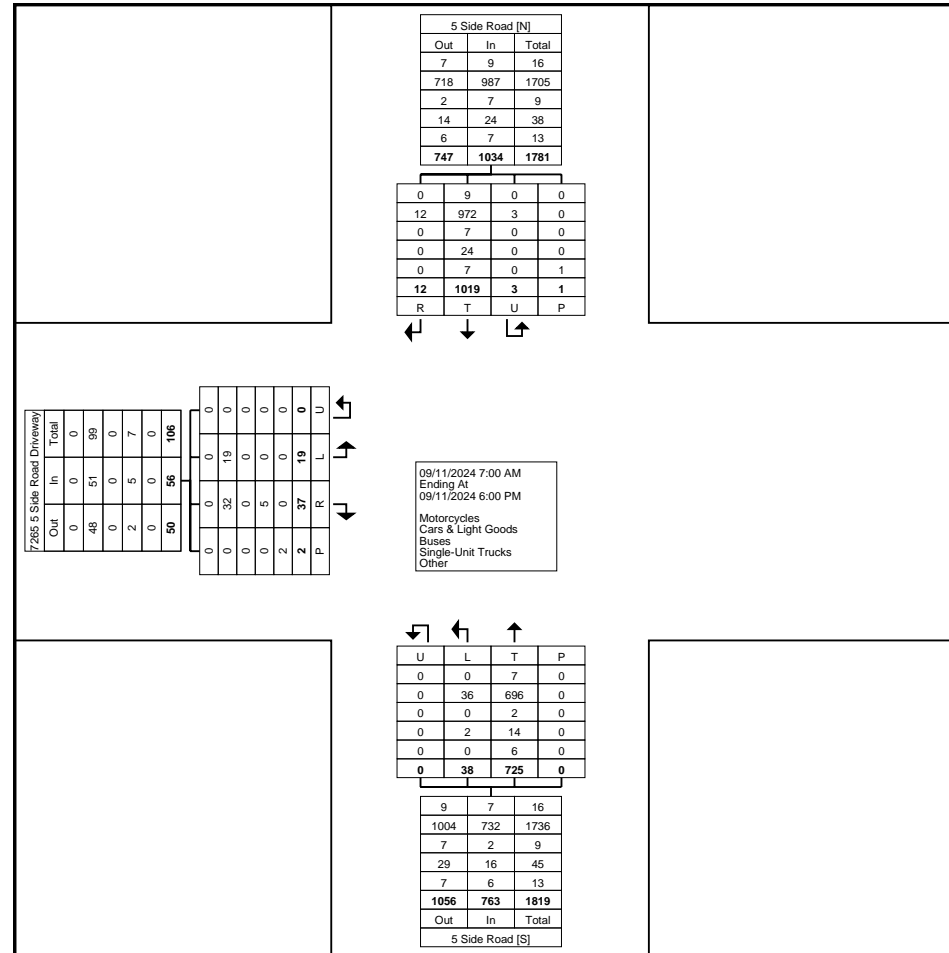
Hourly Total	7	12	0	1	19	2	139	0	0	141	210	0	0	1	210	370
5:00 PM	5	2	0	0	7	0	40	0	0	40	65	0	0	0	65	112
5:15 PM	2	2	0	0	4	2	38	0	0	40	52	0	0	0	52	96
5:30 PM	1	2	0	0	3	1	45	0	0	46	49	0	0	0	49	98
5:45 PM	1	0	0	0	1	1	39	0	0	40	36	0	0	0	36	77
Hourly Total	9	6	0	0	15	4	162	0	0	166	202	0	0	0	202	383
Grand Total	19	37	0	2	56	38	725	0	0	763	1019	12	3	1	1034	1853
Approach %	33.9	66.1	0.0	-	-	5.0	95.0	0.0	-	-	98.5	1.2	0.3	-	-	-
Total %	1.0	2.0	0.0	-	3.0	2.1	39.1	0.0	-	41.2	55.0	0.6	0.2	-	55.8	-
Motorcycles	0	0	0	-	0	0	7	0	-	7	9	0	0	-	9	16
% Motorcycles	0.0	0.0	-	-	0.0	0.0	1.0	-	-	0.9	0.9	0.0	0.0	-	0.9	0.9
Cars & Light Goods	19	32	0	-	51	36	696	0	-	732	972	12	3	-	987	1770
% Cars & Light Goods	100.0	86.5	-	-	91.1	94.7	96.0	-	-	95.9	95.4	100.0	100.0	-	95.5	95.5
Buses	0	0	0	-	0	0	2	0	-	2	7	0	0	-	7	9
% Buses	0.0	0.0	-	-	0.0	0.0	0.3	-	-	0.3	0.7	0.0	0.0	-	0.7	0.5
Single-Unit Trucks	0	5	0	-	5	2	14	0	-	16	24	0	0	-	24	45
% Single-Unit Trucks	0.0	13.5	-	-	8.9	5.3	1.9	-	-	2.1	2.4	0.0	0.0	-	2.3	2.4
Articulated Trucks	0	0	0	-	0	0	2	0	-	2	5	0	0	-	5	7
% Articulated Trucks	0.0	0.0	-	-	0.0	0.0	0.3	-	-	0.3	0.5	0.0	0.0	-	0.5	0.4
Bicycles on Road	0	0	0	-	0	0	4	0	-	4	2	0	0	-	2	6
% Bicycles on Road	0.0	0.0	-	-	0.0	0.0	0.6	-	-	0.5	0.2	0.0	0.0	-	0.2	0.3
Bicycles on Crosswalk	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	0.0	-	-	-	-	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	2	-	-	-	-	0	-	-	-	-	1	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	100.0	-	-



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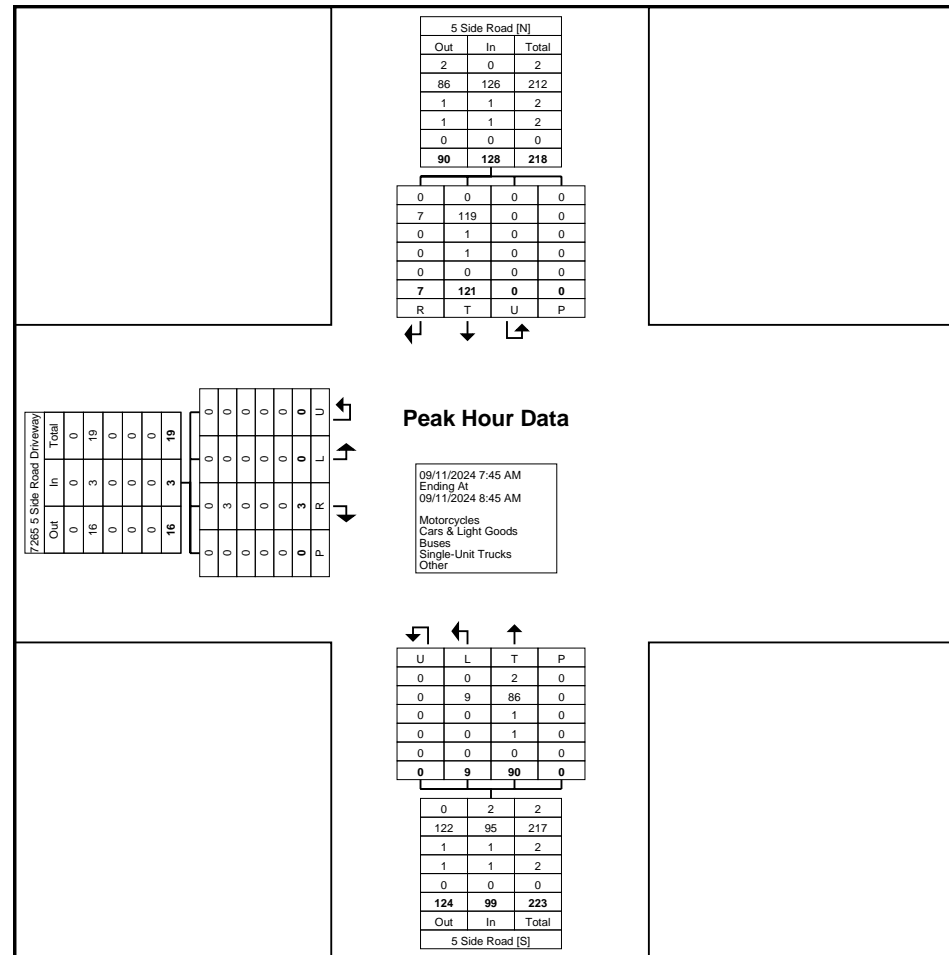
Turning Movement Data Plot



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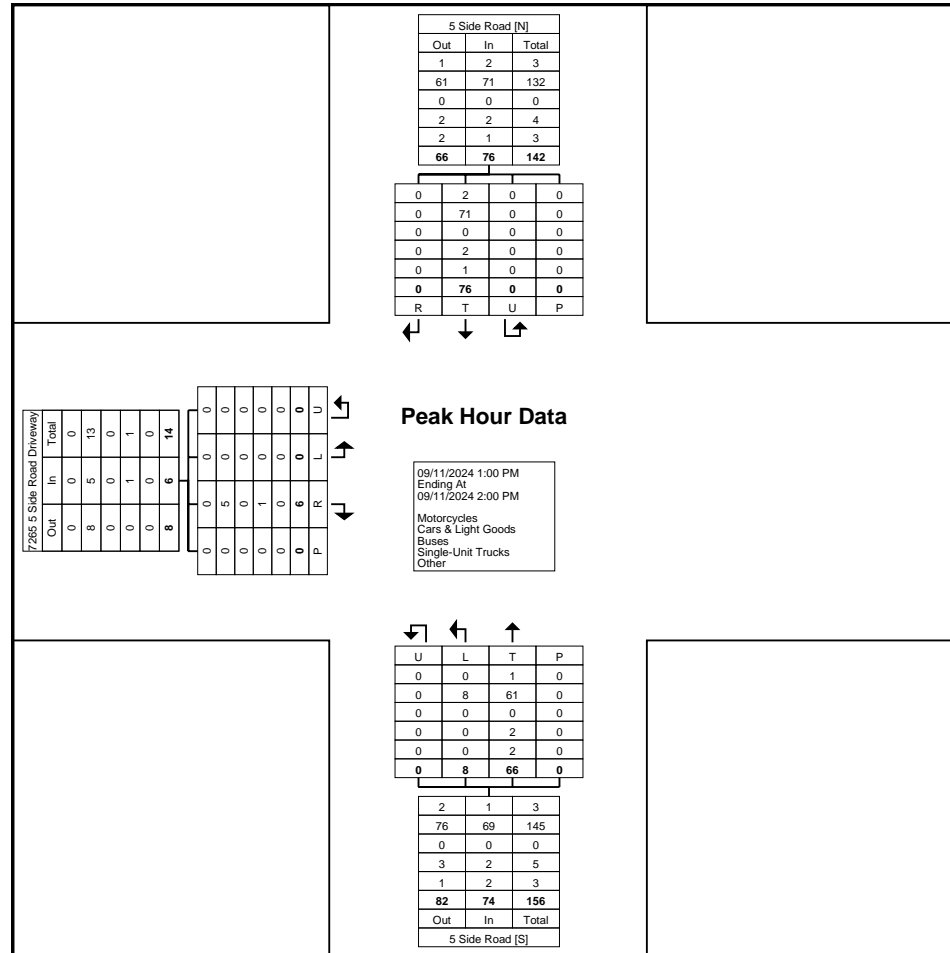
Turning Movement Peak Hour Data Plot (7:45 AM)



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Turning Movement Peak Hour Data Plot (1:00 PM)



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Turning Movement Peak Hour Data (4:30 PM)

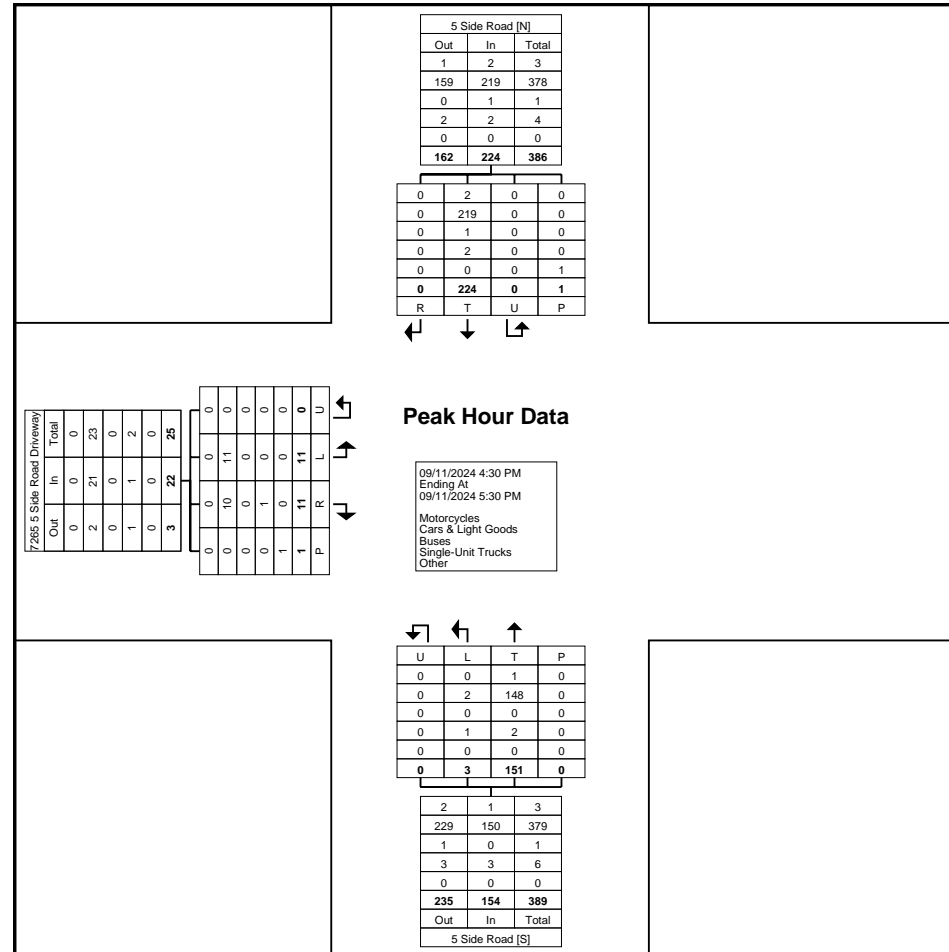
Start Time	7265 5 Side Road Driveway Eastbound					5 Side Road Northbound					5 Side Road Southbound					Int. Total
	Left	Right	U-Turn	Peds	App. Total	Left	Thru	U-Turn	Peds	App. Total	Thru	Right	U-Turn	Peds	App. Total	
4:30 PM	3	6	0	0	9	1	41	0	0	42	56	0	0	0	56	107
4:45 PM	1	1	0	1	2	0	32	0	0	32	51	0	0	1	51	85
5:00 PM	5	2	0	0	7	0	40	0	0	40	65	0	0	0	65	112
5:15 PM	2	2	0	0	4	2	38	0	0	40	52	0	0	0	52	96
Total	11	11	0	1	22	3	151	0	0	154	224	0	0	1	224	400
Approach %	50.0	50.0	0.0	-	-	1.9	98.1	0.0	-	-	100.0	0.0	0.0	-	-	-
Total %	2.8	2.8	0.0	-	5.5	0.8	37.8	0.0	-	38.5	56.0	0.0	0.0	-	56.0	-
PHF	0.550	0.458	0.000	-	0.611	0.375	0.921	0.000	-	0.917	0.862	0.000	0.000	-	0.862	0.893
Motorcycles	0	0	0	-	0	0	1	0	-	1	2	0	0	-	2	3
% Motorcycles	0.0	0.0	-	-	0.0	0.0	0.7	-	-	0.6	0.9	-	-	-	0.9	0.8
Cars & Light Goods	11	10	0	-	21	2	148	0	-	150	219	0	0	-	219	390
% Cars & Light Goods	100.0	90.9	-	-	95.5	66.7	98.0	-	-	97.4	97.8	-	-	-	97.8	97.5
Buses	0	0	0	-	0	0	0	0	-	0	1	0	0	-	1	1
% Buses	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.4	-	-	-	0.4	0.3
Single-Unit Trucks	0	1	0	-	1	1	2	0	-	3	2	0	0	-	2	6
% Single-Unit Trucks	0.0	9.1	-	-	4.5	33.3	1.3	-	-	1.9	0.9	-	-	-	0.9	1.5
Articulated Trucks	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Articulated Trucks	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	-	-	-	0.0	0.0
Bicycles on Road	0	0	0	-	0	0	0	0	-	0	0	0	0	-	0	0
% Bicycles on Road	0.0	0.0	-	-	0.0	0.0	0.0	-	-	0.0	0.0	-	-	-	0.0	0.0
Bicycles on Crosswalk	-	-	-	0	-	-	-	-	0	-	-	-	-	0	-	-
% Bicycles on Crosswalk	-	-	-	0.0	-	-	-	-	-	-	-	-	-	0.0	-	-
Pedestrians	-	-	-	1	-	-	-	-	0	-	-	-	-	1	-	-
% Pedestrians	-	-	-	100.0	-	-	-	-	-	-	-	-	-	100.0	-	-



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Turning Movement Peak Hour Data Plot (4:30 PM)