



TECHNICAL MEMORANDUM

TO: Ms. Nan Balmer, Town Administrator
Town of Wayland
41 Cochituate Road
Wayland, MA 01778

DATE: June 30, 2016

FROM: Kevin R. Dandrade, P.E., PTOE, Principal

PROJECT NO.: T0558.05

RE: Supplemental Glezen Lane Traffic Data
Traffic Volume Comparison of Pre- and Post-Development Conditions

INTRODUCTION

This memorandum provides a summary of supplemental data collection efforts to assess the traffic volume characteristics along Glezen Lane. This analysis builds upon the data and recommendations compiled by TEC, Inc. within the April 6, 2015 and December 10, 2015 technical memoranda to the Town of Wayland. The purpose of this document is to compare and evaluate the daily and hourly traffic volumes since the intersection turn restrictions were removed at the intersection of Old Sudbury Road (Route 27) / Glezen Lane on September 11, 2015.

SUPPLEMENTAL DATA COLLECTION SCOPE AND FINDINGS

TEC staff and its data vendor, Precision Data Industries, LLC (PDI), performed the following data collection activities in June 2016:

- Collected peak hour turning movement counts (TMCs) at the intersections of Old Sudbury Road (Route 27) / Glezen Lane during the following peak hour intervals:
 - Thursday, June 9 - weekday morning peak period (7:00 AM to 9:00 AM)
 - Thursday, June 9 - weekday evening peak period (3:00 PM to 7:00 PM)
 - Saturday, June 11 - weekend midday peak period (11:00 AM to 1:00 PM)
- Collected continuous daily traffic data using an automatic traffic recorder (ATR) unit at the following locations on June 9, 10, 11, and 19:
 - Glezen Lane, just east of Old Sudbury Road (Route 27)
 - Glezen Lane, just west of Concord Road (Route 126)

Attachments A and B include the raw data reports for the counts listed above.

SUMMARY OF TRAFFIC DATA

The recently collected traffic data for the intersection of Old Sudbury Road (Route 27) / Glezen Lane was compared to the 2006 traffic volume data collected by VAI as part of the Master Special Permit Traffic Impact and Access Study for the Wayland Town Center Project



(the "Project") and TEC's November 2015 data. Table 1 below compares the actual field-collected turning movement counts (TMCs) providing access or egress from the westerly end of Glezen Lane.

Table 1 – Turning Movement Count Comparison (Route 27 / Glezen Lane)

Time Period / Movement	(A) VAI (May 2006)	(B) TEC (Nov. 2015)	(C) TEC (June 2016)	Change (A) to (C)
<i>Weekday Morning Peak Hour</i>				
Old Sudbury Road (Rt. 27)				
Northbound Right-turn	20	14	14	-6
Southbound Left-turn	410	409	382	-28
Glezen Lane				
Westbound Left-turn	16	12	12	-4
Westbound Right-turn	<u>45</u>	<u>29</u>	<u>19</u>	<u>-26</u>
<i>Total Hourly Volume</i>	491	464	427	-64
<i>Weekday Evening Peak Hour</i>				
Old Sudbury Road (Rt. 27)				
Northbound Right-turn	5	13	18	+13
Southbound Left-turn	78	30	34	-44
Glezen Lane				
Westbound Left-turn	50	24	63	+13
Westbound Right-turn	<u>311</u>	<u>370</u>	<u>425</u>	<u>+114*</u>
<i>Total Hourly Volume</i>	444	437	540	+96
<i>Saturday Midday Peak Hour</i>				
Old Sudbury Road (Rt. 27)				
Northbound Right-turn	10	17	20	+10
Southbound Left-turn	32	33	28	-4
Glezen Lane				
Westbound Left-turn	20	16	18	-2
Westbound Right-turn	<u>34</u>	<u>33</u>	<u>27</u>	<u>-7</u>
<i>Total Hourly Volume</i>	96	99	93	-3

Note: volumes above are expressed in vehicles per hour (vph)

The overall traffic volumes at the intersection have either dropped or remained generally consistent, despite the substantial build-out of the Project and ten years of ambient traffic growth potential. It is important to note that the Glezen Lane westbound right-turn movement, shown with (*) in Table 1 above, is not a movement that is bound for the Project. It is more closely tied with peak-hour commuter traffic trends from other background development that may have occurred in Sudbury or other communities to the northwest in recent years. Both sets of data were collected while area schools were in session.



Based on the prior origin-destination data collection effort in late 2015, TEC concluded that the level of vehicle trips arriving at, and departing from, Glezen Lane are representative of the historic neighborhood driving trends and do not present any evidence of cut-through traffic. Any minor increases in the northbound right-turn or westbound left-turn (increases of only 10 to 13 vehicles over the span of one hour) are likely associated with reasonable fluctuations in neighborhood traffic and do not present a recognizable impact. It is representative of one additional vehicle every four to six minutes.

In addition to the turning movement counts, the daily traffic ATR counts on Glezen Lane (west of Concord Road – Rt. 126) to compare against the original 2008 counts and the 2015 counts as shown in Table 2.

Table 2 – Daily Traffic Count Comparison

	(A) VAI May/June 2006	(B) TEC Nov. 2015	(C) TEC June 2016	Change (A) to (C)
Weekday Daily Average	2,278	2,189	2358	+80 (+3.5%)
Saturday Daily	599	508	599	0 (0%)
Sunday Daily	450	376	441	-9 (-2.0%)

Note: volumes above are expressed in vehicles per day (vpd)

The data shows a minor increase in the weekday daily period. However, the 3.5% increase over a 10-year period is representative of low background traffic growth, most likely attributable to increased residential development in Sudbury and other areas to the northwest. It is representative of 0.3% traffic growth per year, which is significantly lower than the standard growth rates used by the Massachusetts Department of Transportation; it is also much lower than the ambient traffic growth rate of 1.0% assumed within the Project's original traffic study. This low weekday increase and the overall static condition in traffic during the weekend periods demonstrate that the Project has not contributed any measurable traffic to the Glezen Lane neighborhood that would result in a new impact.

FINDINGS

As the Town's professional engineering firm and traffic engineering peer reviewer, TEC has been involved in most traffic-related permitting and design discussions related to the Project. TEC can reaffirm that:

1. The trip generation estimates for the Project were conservatively prepared. The actual post-occupancy traffic volumes are significantly lower than anticipated.
2. The trip distribution to and from Glezen Lane and the adjacent neighborhoods is significantly lower than originally estimated.
3. The 2015 and 2016 daily and peak hour traffic data sources for Glezen Lane show a reduction, or generally static condition, in traffic volumes when compared to the 2006 traffic data used in the Project's permitting documents.

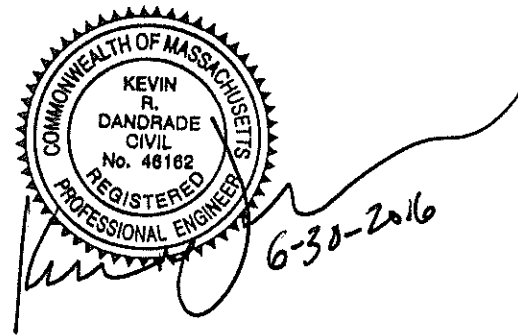


4. There are no identifiable, measurable traffic-related impacts related to the Project. Although the overall traffic trends have dropped, there are some minor increases in certain traffic movements. However, they are more appropriately associated with other regional developments in Sudbury or other areas to the northwest and are not attributable to the Project.

Please contact me at (978) 794-1792 with any follow-up questions regarding the recent traffic count data or our findings. Thank you for your consideration.

Attachments:

- A. 2016 Turning Movement Count Data
- B. 2016 Automatic Traffic Recorder Count Data



Attachment A

2016 Turning Movement Count Data



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

File Name : 165117 A
Site Code : T0558.05
Start Date : 6/9/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
07:00 AM	154	86	0	4	4	0	5	59	0	312
07:15 AM	130	103	0	3	5	0	2	75	0	318
07:30 AM	141	103	0	4	1	0	6	68	0	323
07:45 AM	163	90	0	7	4	0	2	77	0	343
Total	588	382	0	18	14	0	15	279	0	1296
08:00 AM	150	86	0	5	2	0	4	70	0	317
08:15 AM	147	77	0	9	3	0	6	51	0	293
08:30 AM	129	60	0	17	5	0	2	86	0	299
08:45 AM	119	44	0	16	5	0	3	86	0	273
Total	545	267	0	47	15	0	15	293	0	1182
Grand Total	1133	649	0	65	29	0	30	572	0	2478
Apprch %	63.6	36.4	0	69.1	30.9	0	5	95	0	
Total %	45.7	26.2	0	2.6	1.2	0	1.2	23.1	0	
Cars	1080	638	0	61	29	0	29	535	0	2372
% Cars	95.3	98.3	0	93.8	100	0	96.7	93.5	0	95.7
Heavy Vehicles	53	11	0	4	0	0	1	37	0	106
% Heavy Vehicles	4.7	1.7	0	6.2	0	0	3.3	6.5	0	4.3

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	130	103	0	233	3	5	0	8	2	75	0	77	318
07:30 AM	141	103	0	244	4	1	0	5	6	68	0	74	323
07:45 AM	163	90	0	253	7	4	0	11	2	77	0	79	343
08:00 AM	150	86	0	236	5	2	0	7	4	70	0	74	317
Total Volume	584	382	0	966	19	12	0	31	14	290	0	304	1301
% App. Total	60.5	39.5	0		61.3	38.7	0		4.6	95.4	0		
PHF	.896	.927	.000	.955	.679	.600	.000	.705	.583	.942	.000	.962	.948
Cars	562	377	0	939	17	12	0	29	13	273	0	286	1254
% Cars	96.2	98.7	0	97.2	89.5	100	0	93.5	92.9	94.1	0	94.1	96.4
Heavy Vehicles	22	5	0	27	2	0	0	2	1	17	0	18	47
% Heavy Vehicles	3.8	1.3	0	2.8	10.5	0	0	6.5	7.1	5.9	0	5.9	3.6



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Groups Printed- Cars

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
07:00 AM	143	85	0	4	4	0	5	54	0	295
07:15 AM	126	100	0	3	5	0	2	69	0	305
07:30 AM	135	103	0	3	1	0	6	62	0	310
07:45 AM	159	90	0	6	4	0	2	77	0	338
Total	563	378	0	16	14	0	15	262	0	1248
08:00 AM	142	84	0	5	2	0	3	65	0	301
08:15 AM	141	75	0	9	3	0	6	50	0	284
08:30 AM	121	57	0	16	5	0	2	81	0	282
08:45 AM	113	44	0	15	5	0	3	77	0	257
Total	517	260	0	45	15	0	14	273	0	1124
Grand Total	1080	638	0	61	29	0	29	535	0	2372
Apprch %	62.9	37.1	0	67.8	32.2	0	5.1	94.9	0	
Total %	45.5	26.9	0	2.6	1.2	0	1.2	22.6	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	126	100	0	226	3	5	0	8	2	69	0	71	305
07:30 AM	135	103	0	238	3	1	0	4	6	62	0	68	310
07:45 AM	159	90	0	249	6	4	0	10	2	77	0	79	338
08:00 AM	142	84	0	226	5	2	0	7	3	65	0	68	301
Total Volume	562	377	0	939	17	12	0	29	13	273	0	286	1254
% App. Total	59.9	40.1	0		58.6	41.4	0		4.5	95.5	0		
PHF	.884	.915	.000	.943	.708	.600	.000	.725	.542	.886	.000	.905	.928



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Groups Printed- Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
07:00 AM	11	1	0	0	0	0	0	5	0	17
07:15 AM	4	3	0	0	0	0	0	6	0	13
07:30 AM	6	0	0	1	0	0	0	6	0	13
07:45 AM	4	0	0	1	0	0	0	0	0	5
Total	25	4	0	2	0	0	0	17	0	48
08:00 AM	8	2	0	0	0	0	1	5	0	16
08:15 AM	6	2	0	0	0	0	0	1	0	9
08:30 AM	8	3	0	1	0	0	0	5	0	17
08:45 AM	6	0	0	1	0	0	0	9	0	16
Total	28	7	0	2	0	0	1	20	0	58
Grand Total	53	11	0	4	0	0	1	37	0	106
Apprch %	82.8	17.2	0	100	0	0	2.6	97.4	0	
Total %	50	10.4	0	3.8	0	0	0.9	34.9	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 08:00 AM													
08:00 AM	8	2	0	10	0	0	0	0	1	5	0	6	16
08:15 AM	6	2	0	8	0	0	0	0	0	1	0	1	9
08:30 AM	8	3	0	11	1	0	0	1	0	5	0	5	17
08:45 AM	6	0	0	6	1	0	0	1	0	9	0	9	16
Total Volume	28	7	0	35	2	0	0	2	1	20	0	21	58
% App. Total	80	20	0		100	0	0		4.8	95.2	0		
PHF	.875	.583	.000	.795	.500	.000	.000	.500	.250	.556	.000	.583	.853



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Groups Printed- Peds and Bikes

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	Peds EB	Peds WB	Right	Left	Peds SB	Peds NB	Right	Thru	Peds WB	Peds EB	
07:00 AM	1	1	0	0	0	0	0	0	0	0	0	0	2
07:15 AM	2	0	0	0	0	0	0	0	0	0	0	0	2
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
Total	3	1	0	0	0	0	0	0	0	1	0	0	5
08:00 AM	0	0	0	0	0	0	0	0	0	2	0	0	2
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	0	0	0	0	2	0	0	3
Grand Total	3	2	0	0	0	0	0	0	0	3	0	0	8
Apprch %	60	40	0	0	0	0	0	0	0	100	0	0	
Total %	37.5	25	0	0	0	0	0	0	0	37.5	0	0	

Start Time	Old Sudbury Road (Route 27) From North					Glezen Lane From East					Old Sudbury Road (Route 27) From South					Int. Total
	Thru	Left	Peds EB	Peds WB	App. Total	Right	Left	Peds SB	Peds NB	App. Total	Right	Thru	Peds WB	Peds EB	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 07:00 AM																
07:00 AM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	2	
07:15 AM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	2	
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	
Total Volume	3	1	0	0	4	0	0	0	0	0	0	1	0	1	5	
% App. Total	75	25	0	0		0	0	0	0		0	100	0	0		
PHF	.375	.250	.000	.000	.500	.000	.000	.000	.000	.000	.000	.250	.000	.000	.625	



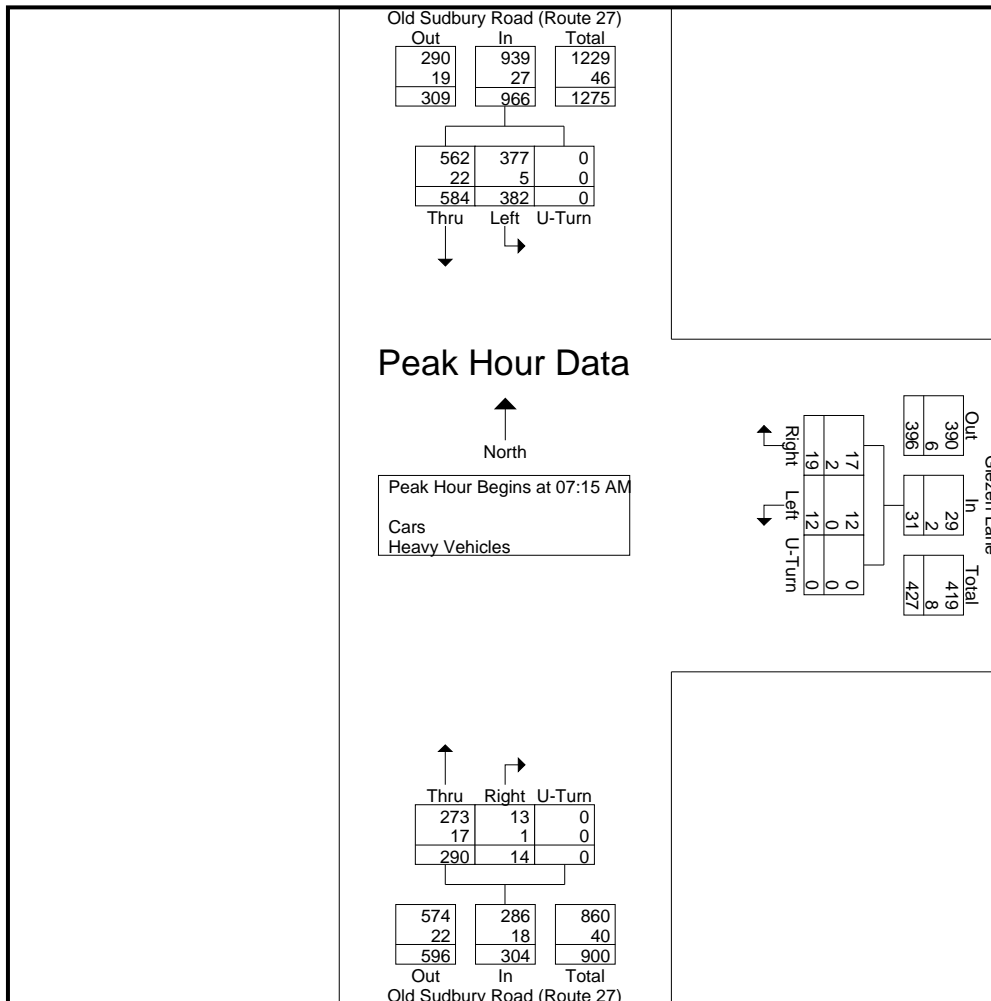
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	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:15 AM													
07:15 AM	130	103	0	233	3	5	0	8	2	75	0	77	318
07:30 AM	141	103	0	244	4	1	0	5	6	68	0	74	323
07:45 AM	163	90	0	253	7	4	0	11	2	77	0	79	343
08:00 AM	150	86	0	236	5	2	0	7	4	70	0	74	317
Total Volume	584	382	0	966	19	12	0	31	14	290	0	304	1301
% App. Total	60.5	39.5	0		61.3	38.7	0		4.6	95.4	0		
PHF	.896	.927	.000	.955	.679	.600	.000	.705	.583	.942	.000	.962	.948
Cars	562	377	0	939	17	12	0	29	13	273	0	286	1254
% Cars	96.2	98.7	0	97.2	89.5	100	0	93.5	92.9	94.1	0	94.1	96.4
Heavy Vehicles	22	5	0	27	2	0	0	2	1	17	0	18	47
% Heavy Vehicles	3.8	1.3	0	2.8	10.5	0	0	6.5	7.1	5.9	0	5.9	3.6





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Groups Printed- Cars - Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
04:00 PM	85	14	0	38	15	0	5	154	0	311
04:15 PM	101	10	0	74	7	0	2	165	0	359
04:30 PM	78	5	0	82	9	0	5	162	0	341
04:45 PM	81	7	0	101	10	0	4	145	0	348
Total	345	36	0	295	41	0	16	626	0	1359
05:00 PM	98	8	0	110	9	0	3	166	0	394
05:15 PM	85	6	0	93	19	0	6	167	0	376
05:30 PM	84	14	0	117	12	0	4	165	0	396
05:45 PM	92	6	0	105	23	0	5	135	0	366
Total	359	34	0	425	63	0	18	633	0	1532
Grand Total	704	70	0	720	104	0	34	1259	0	2891
Apprch %	91	9	0	87.4	12.6	0	2.6	97.4	0	
Total %	24.4	2.4	0	24.9	3.6	0	1.2	43.5	0	
Cars	692	70	0	714	103	0	34	1233	0	2846
% Cars	98.3	100	0	99.2	99	0	100	97.9	0	98.4
Heavy Vehicles	12	0	0	6	1	0	0	26	0	45
% Heavy Vehicles	1.7	0	0	0.8	1	0	0	2.1	0	1.6

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:00 PM													
05:00 PM	98	8	0	106	110	9	0	119	3	166	0	169	394
05:15 PM	85	6	0	91	93	19	0	112	6	167	0	173	376
05:30 PM	84	14	0	98	117	12	0	129	4	165	0	169	396
05:45 PM	92	6	0	98	105	23	0	128	5	135	0	140	366
Total Volume	359	34	0	393	425	63	0	488	18	633	0	651	1532
% App. Total	91.3	8.7	0	.927	87.1	12.9	0	.946	2.8	97.2	0	.941	.967
PHF	.916	.607	.000	.927	.908	.685	.000	.946	.750	.948	.000	.941	.967
Cars	353	34	0	387	424	63	0	487	18	622	0	640	1514
% Cars	98.3	100	0	98.5	99.8	100	0	99.8	100	98.3	0	98.3	98.8
Heavy Vehicles	6	0	0	6	1	0	0	1	0	11	0	11	18
% Heavy Vehicles	1.7	0	0	1.5	0.2	0	0	0.2	0	1.7	0	1.7	1.2



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File Name : 165117 AA
Site Code : T0558.05
Start Date : 6/9/2016
Page No : 1

N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

Groups Printed- Cars

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
04:00 PM	82	14	0	36	14	0	5	148	0	299
04:15 PM	100	10	0	73	7	0	2	162	0	354
04:30 PM	76	5	0	81	9	0	5	160	0	336
04:45 PM	81	7	0	100	10	0	4	141	0	343
Total	339	36	0	290	40	0	16	611	0	1332
05:00 PM	96	8	0	110	9	0	3	162	0	388
05:15 PM	85	6	0	93	19	0	6	166	0	375
05:30 PM	81	14	0	116	12	0	4	162	0	389
05:45 PM	91	6	0	105	23	0	5	132	0	362
Total	353	34	0	424	63	0	18	622	0	1514
Grand Total	692	70	0	714	103	0	34	1233	0	2846
Apprch %	90.8	9.2	0	87.4	12.6	0	2.7	97.3	0	
Total %	24.3	2.5	0	25.1	3.6	0	1.2	43.3	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:00 PM													
05:00 PM	96	8	0	104	110	9	0	119	3	162	0	165	388
05:15 PM	85	6	0	91	93	19	0	112	6	166	0	172	375
05:30 PM	81	14	0	95	116	12	0	128	4	162	0	166	389
05:45 PM	91	6	0	97	105	23	0	128	5	132	0	137	362
Total Volume	353	34	0	387	424	63	0	487	18	622	0	640	1514
% App. Total	91.2	8.8	0		87.1	12.9	0		2.8	97.2	0		
PHF	.919	.607	.000	.930	.914	.685	.000	.951	.750	.937	.000	.930	.973



PRECISION
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INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
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N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

File Name : 165117 AA
Site Code : T0558.05
Start Date : 6/9/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
04:00 PM	3	0	0	2	1	0	0	6	0	12
04:15 PM	1	0	0	1	0	0	0	3	0	5
04:30 PM	2	0	0	1	0	0	0	2	0	5
04:45 PM	0	0	0	1	0	0	0	4	0	5
Total	6	0	0	5	1	0	0	15	0	27
05:00 PM	2	0	0	0	0	0	0	4	0	6
05:15 PM	0	0	0	0	0	0	0	1	0	1
05:30 PM	3	0	0	1	0	0	0	3	0	7
05:45 PM	1	0	0	0	0	0	0	3	0	4
Total	6	0	0	1	0	0	0	11	0	18
Grand Total	12	0	0	6	1	0	0	26	0	45
Apprch %	100	0	0	85.7	14.3	0	0	100	0	
Total %	26.7	0	0	13.3	2.2	0	0	57.8	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:00 PM													
04:00 PM	3	0	0	3	2	1	0	3	0	6	0	6	12
04:15 PM	1	0	0	1	1	0	0	1	0	3	0	3	5
04:30 PM	2	0	0	2	1	0	0	1	0	2	0	2	5
04:45 PM	0	0	0	0	1	0	0	1	0	4	0	4	5
Total Volume	6	0	0	6	5	1	0	6	0	15	0	15	27
% App. Total	100	0	0	0	83.3	16.7	0	0	0	100	0	0	0
PHF	.500	.000	.000	.500	.625	.250	.000	.500	.000	.625	.000	.625	.563



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File Name : 165117 AA
Site Code : T0558.05
Start Date : 6/9/2016
Page No : 1

N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

Groups Printed- Peds and Bikes

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	Peds EB	Peds WB	Right	Left	Peds SB	Peds NB	Right	Thru	Peds WB	Peds EB	
04:00 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 PM	1	0	0	0	1	0	0	0	0	0	0	0	2
04:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
Total	2	0	0	0	2	0	0	0	0	0	0	0	4
05:00 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
05:15 PM	1	0	0	0	0	0	0	0	0	1	0	0	2
05:30 PM	0	1	0	0	0	0	0	0	0	1	0	0	2
05:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
Total	1	2	0	0	0	0	1	0	0	2	0	0	6
Grand Total	3	2	0	0	2	0	1	0	0	2	0	0	10
Apprch %	60	40	0	0	66.7	0	33.3	0	0	100	0	0	
Total %	30	20	0	0	20	0	10	0	0	20	0	0	

Start Time	Old Sudbury Road (Route 27) From North					Glezen Lane From East					Old Sudbury Road (Route 27) From South					Int. Total
	Thru	Left	Peds EB	Peds WB	App. Total	Right	Left	Peds SB	Peds NB	App. Total	Right	Thru	Peds WB	Peds EB	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 04:30 PM																
04:30 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	2	
04:45 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	
05:00 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	
05:15 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	1	2	
Total Volume	2	0	0	0	2	2	0	1	0	3	0	1	0	1	6	
% App. Total	100	0	0	0	0	66.7	0	33.3	0	0	0	100	0	0	0	
PHF	.500	.000	.000	.000	.500	.500	.000	.250	.000	.750	.000	.250	.000	.000	.750	



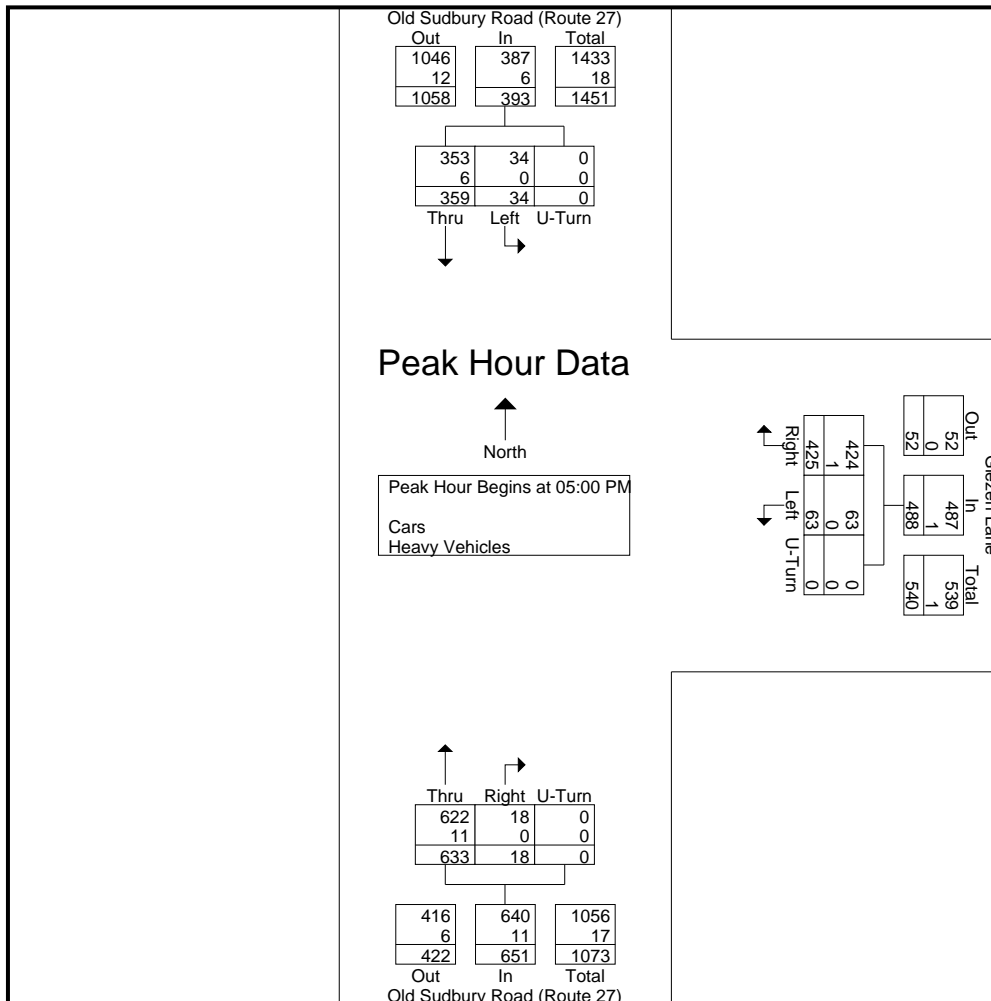
PRECISION
D A T A
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46 Morton Street, Framingham, MA 01702
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N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

File Name : 165117 AA
Site Code : T0558.05
Start Date : 6/9/2016
Page No : 1

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 05:00 PM													
05:00 PM	98	8	0	106	110	9	0	119	3	166	0	169	394
05:15 PM	85	6	0	91	93	19	0	112	6	167	0	173	376
05:30 PM	84	14	0	98	117	12	0	129	4	165	0	169	396
05:45 PM	92	6	0	98	105	23	0	128	5	135	0	140	366
Total Volume	359	34	0	393	425	63	0	488	18	633	0	651	1532
% App. Total	91.3	8.7	0		87.1	12.9	0		2.8	97.2	0		
PHF	.916	.607	.000	.927	.908	.685	.000	.946	.750	.948	.000	.941	.967
Cars	353	34	0	387	424	63	0	487	18	622	0	640	1514
% Cars	98.3	100	0	98.5	99.8	100	0	99.8	100	98.3	0	98.3	98.8
Heavy Vehicles	6	0	0	6	1	0	0	1	0	11	0	11	18
% Heavy Vehicles	1.7	0	0	1.5	0.2	0	0	0.2	0	1.7	0	1.7	1.2





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N/S: Old Sudbury Road (Route 27)
E: Glezen Lane
City, State: Wayland, MA
Client: TEC/ K. Dandrade

File Name : 165117 AAA
Site Code : T0558.05
Start Date : 6/11/2016
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
11:00 AM	87	11	0	5	6	0	4	79	0	192
11:15 AM	94	7	0	4	8	0	5	70	0	188
11:30 AM	83	7	0	9	10	0	7	101	0	217
11:45 AM	85	5	0	6	8	0	6	90	0	200
Total	349	30	0	24	32	0	22	340	0	797
12:00 PM	127	7	0	5	2	0	8	89	0	238
12:15 PM	120	7	0	9	6	0	4	88	0	234
12:30 PM	95	6	0	4	4	0	5	79	0	193
12:45 PM	110	8	0	9	6	0	3	111	0	247
Total	452	28	0	27	18	0	20	367	0	912
Grand Total	801	58	0	51	50	0	42	707	0	1709
Apprch %	93.2	6.8	0	50.5	49.5	0	5.6	94.4	0	
Total %	46.9	3.4	0	3	2.9	0	2.5	41.4	0	
Cars	775	56	0	49	47	0	42	693	0	1662
% Cars	96.8	96.6	0	96.1	94	0	100	98	0	97.2
Heavy Vehicles	26	2	0	2	3	0	0	14	0	47
% Heavy Vehicles	3.2	3.4	0	3.9	6	0	0	2	0	2.8

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 12:00 PM													
12:00 PM	127	7	0	134	5	2	0	7	8	89	0	97	238
12:15 PM	120	7	0	127	9	6	0	15	4	88	0	92	234
12:30 PM	95	6	0	101	4	4	0	8	5	79	0	84	193
12:45 PM	110	8	0	118	9	6	0	15	3	111	0	114	247
Total Volume	452	28	0	480	27	18	0	45	20	367	0	387	912
% App. Total	94.2	5.8	0		60	40	0		5.2	94.8	0		
PHF	.890	.875	.000	.896	.750	.750	.000	.750	.625	.827	.000	.849	.923
Cars	437	27	0	464	26	17	0	43	20	359	0	379	886
% Cars	96.7	96.4	0	96.7	96.3	94.4	0	95.6	100	97.8	0	97.9	97.1
Heavy Vehicles	15	1	0	16	1	1	0	2	0	8	0	8	26
% Heavy Vehicles	3.3	3.6	0	3.3	3.7	5.6	0	4.4	0	2.2	0	2.1	2.9



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N/S: Old Sudbury Road (Route 27)
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Client: TEC/ K. Dandrade

File Name : 165117 AAA
Site Code : T0558.05
Start Date : 6/11/2016
Page No : 1

Groups Printed- Cars

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
11:00 AM	85	11	0	5	5	0	4	79	0	189
11:15 AM	90	7	0	3	8	0	5	68	0	181
11:30 AM	80	7	0	9	9	0	7	101	0	213
11:45 AM	83	4	0	6	8	0	6	86	0	193
Total	338	29	0	23	30	0	22	334	0	776
12:00 PM	122	7	0	5	2	0	8	87	0	231
12:15 PM	118	7	0	9	5	0	4	87	0	230
12:30 PM	92	6	0	4	4	0	5	76	0	187
12:45 PM	105	7	0	8	6	0	3	109	0	238
Total	437	27	0	26	17	0	20	359	0	886
Grand Total	775	56	0	49	47	0	42	693	0	1662
Apprch %	93.3	6.7	0	51	49	0	5.7	94.3	0	
Total %	46.6	3.4	0	2.9	2.8	0	2.5	41.7	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 12:00 PM													
12:00 PM	122	7	0	129	5	2	0	7	8	87	0	95	231
12:15 PM	118	7	0	125	9	5	0	14	4	87	0	91	230
12:30 PM	92	6	0	98	4	4	0	8	5	76	0	81	187
12:45 PM	105	7	0	112	8	6	0	14	3	109	0	112	238
Total Volume	437	27	0	464	26	17	0	43	20	359	0	379	886
% App. Total	94.2	5.8	0		60.5	39.5	0		5.3	94.7	0		
PHF	.895	.964	.000	.899	.722	.708	.000	.768	.625	.823	.000	.846	.931



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File Name : 165117 AAA
Site Code : T0558.05
Start Date : 6/11/2016
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Old Sudbury Road (Route 27) From North			Glezen Lane From East			Old Sudbury Road (Route 27) From South			Int. Total
	Thru	Left	U-Turn	Right	Left	U-Turn	Right	Thru	U-Turn	
11:00 AM	2	0	0	0	1	0	0	0	0	3
11:15 AM	4	0	0	1	0	0	0	2	0	7
11:30 AM	3	0	0	0	1	0	0	0	0	4
11:45 AM	2	1	0	0	0	0	0	4	0	7
Total	11	1	0	1	2	0	0	6	0	21
12:00 PM	5	0	0	0	0	0	0	2	0	7
12:15 PM	2	0	0	0	1	0	0	1	0	4
12:30 PM	3	0	0	0	0	0	0	3	0	6
12:45 PM	5	1	0	1	0	0	0	2	0	9
Total	15	1	0	1	1	0	0	8	0	26
Grand Total	26	2	0	2	3	0	0	14	0	47
Apprch %	92.9	7.1	0	40	60	0	0	100	0	
Total %	55.3	4.3	0	4.3	6.4	0	0	29.8	0	

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 12:00 PM													
12:00 PM	5	0	0	5	0	0	0	0	0	2	0	2	7
12:15 PM	2	0	0	2	0	1	0	1	0	1	0	1	4
12:30 PM	3	0	0	3	0	0	0	0	0	3	0	3	6
12:45 PM	5	1	0	6	1	0	0	1	0	2	0	2	9
Total Volume	15	1	0	16	1	1	0	2	0	8	0	8	26
% App. Total	93.8	6.2	0		50	50	0		0	100	0		
PHF	.750	.250	.000	.667	.250	.250	.000	.500	.000	.667	.000	.667	.722



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File Name : 165117 AAA
Site Code : T0558.05
Start Date : 6/11/2016
Page No : 1

Groups Printed- Peds and Bikes

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	Peds EB	Peds WB	Right	Left	Peds SB	Peds NB	Right	Thru	Peds WB	Peds EB	
11:00 AM	0	1	0	0	2	0	0	0	0	4	0	0	7
11:15 AM	2	1	0	0	4	0	0	0	0	1	0	0	8
11:30 AM	2	2	0	0	2	0	0	0	0	3	0	0	9
11:45 AM	0	5	0	0	6	0	0	0	0	3	0	0	14
Total	4	9	0	0	14	0	0	0	0	11	0	0	38
12:00 PM	1	0	0	0	2	0	0	0	0	1	0	0	4
12:15 PM	0	0	0	0	1	0	0	0	0	2	0	0	3
12:30 PM	1	0	0	0	0	0	0	0	0	0	0	0	1
12:45 PM	2	0	0	0	0	0	0	0	0	1	0	0	3
Total	4	0	0	0	3	0	0	0	0	4	0	0	11
Grand Total	8	9	0	0	17	0	0	0	0	15	0	0	49
Apprch %	47.1	52.9	0	0	100	0	0	0	0	100	0	0	
Total %	16.3	18.4	0	0	34.7	0	0	0	0	30.6	0	0	

Start Time	Old Sudbury Road (Route 27) From North					Glezen Lane From East					Old Sudbury Road (Route 27) From South					Int. Total
	Thru	Left	Peds EB	Peds WB	App. Total	Right	Left	Peds SB	Peds NB	App. Total	Right	Thru	Peds WB	Peds EB	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1																
Peak Hour for Entire Intersection Begins at 11:00 AM																
11:00 AM	0	1	0	0	1	2	0	0	0	2	0	4	0	0	4	7
11:15 AM	2	1	0	0	3	4	0	0	0	4	0	1	0	0	1	8
11:30 AM	2	2	0	0	4	2	0	0	0	2	0	3	0	0	3	9
11:45 AM	0	5	0	0	5	6	0	0	0	6	0	3	0	0	3	14
Total Volume	4	9	0	0	13	14	0	0	0	14	0	11	0	0	11	38
% App. Total	30.8	69.2	0	0		100	0	0	0		0	100	0	0		
PHF	.500	.450	.000	.000	.650	.583	.000	.000	.000	.583	.000	.688	.000	.000	.688	.679



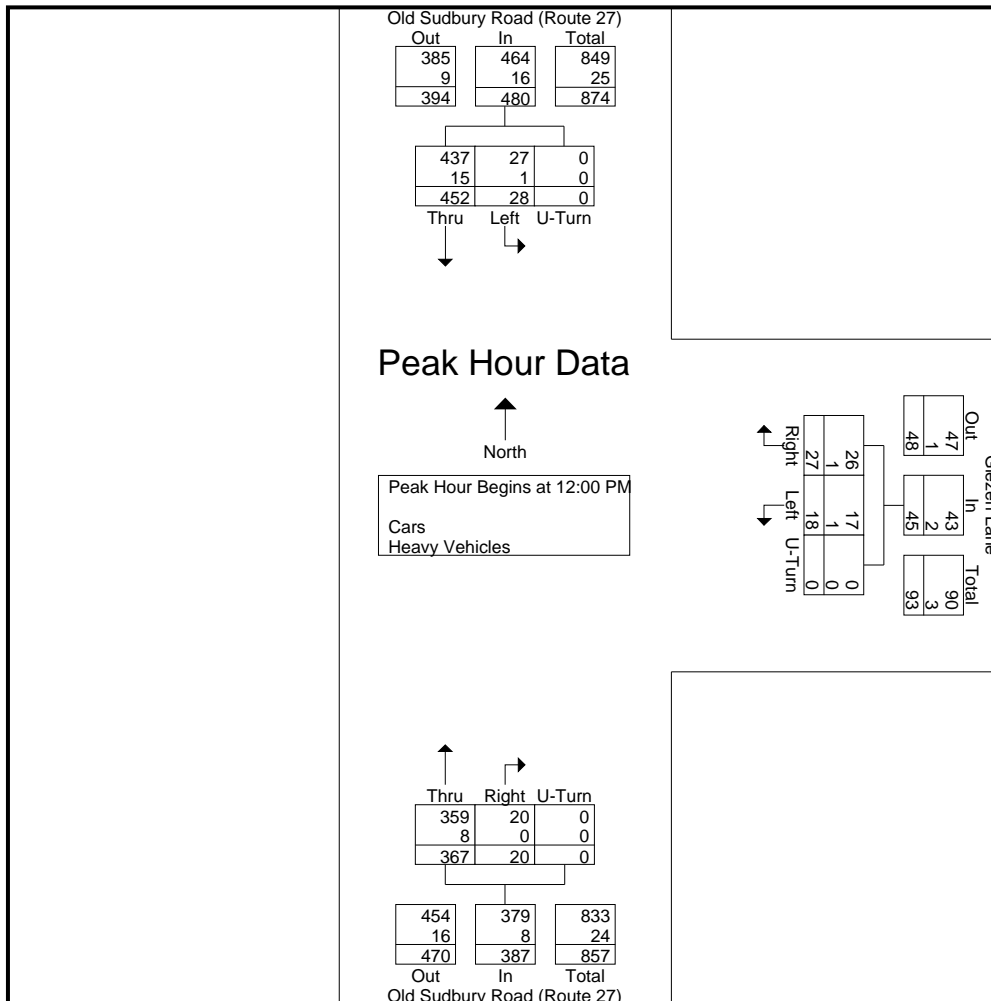
PRECISION
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Page No : 1

Start Time	Old Sudbury Road (Route 27) From North				Glezen Lane From East				Old Sudbury Road (Route 27) From South				Int. Total
	Thru	Left	U-Turn	App. Total	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	
Peak Hour Analysis From 11:00 AM to 12:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 12:00 PM													
12:00 PM	127	7	0	134	5	2	0	7	8	89	0	97	238
12:15 PM	120	7	0	127	9	6	0	15	4	88	0	92	234
12:30 PM	95	6	0	101	4	4	0	8	5	79	0	84	193
12:45 PM	110	8	0	118	9	6	0	15	3	111	0	114	247
Total Volume	452	28	0	480	27	18	0	45	20	367	0	387	912
% App. Total	94.2	5.8	0		60	40	0		5.2	94.8	0		
PHF	.890	.875	.000	.896	.750	.750	.000	.750	.625	.827	.000	.849	.923
Cars	437	27	0	464	26	17	0	43	20	359	0	379	886
% Cars	96.7	96.4	0	96.7	96.3	94.4	0	95.6	100	97.8	0	97.9	97.1
Heavy Vehicles	15	1	0	16	1	1	0	2	0	8	0	8	26
% Heavy Vehicles	3.3	3.6	0	3.3	3.7	5.6	0	4.4	0	2.2	0	2.1	2.9



Attachment B

2016 Automatic Traffic Recorder Count Data

Glezen Lane west of Concord Road (Route 126)



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Glezen Lane
west of Concord Road (Route 126)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 B VOLUME
Site Code: T0558.05

Start Time	WB		EB		Combin ed		6/9/2016 Thu					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	0	5	1	8	1	13						
12:15	0	12	0	7	0	19						
12:30	0	13	0	9	0	22						
12:45	0	6	36	0	1	9	33	0	1	15	69	
01:00	0	6	0	9	0	15						
01:15	0	5	1	7	1	12						
01:30	0	7	0	10	0	17						
01:45	0	6	24	0	1	9	35	0	1	15	59	
02:00	0	1	0	9	0	10						
02:15	0	6	0	5	0	11						
02:30	0	7	0	8	0	15						
02:45	0	9	23	0	0	7	29	0	0	16	52	
03:00	0	24	0	6	0	30						
03:15	0	14	0	8	0	22						
03:30	0	27	0	10	0	37						
03:45	0	43	108	0	0	6	30	0	0	49	138	
04:00	0	48	0	11	0	59						
04:15	1	66	0	8	1	74						
04:30	0	92	0	5	0	97						
04:45	0	94	300	0	0	3	27	0	1	97	327	
05:00	1	118	0	7	1	125						
05:15	0	104	0	6	0	110						
05:30	0	109	1	10	1	119						
05:45	11	106	437	1	2	7	30	12	14	113	467	
06:00	1	122	3	5	4	127						
06:15	1	94	26	4	27	98						
06:30	1	58	39	5	40	63						
06:45	3	31	305	55	123	4	18	58	129	35	323	
07:00	2	17	67	3	69	20						
07:15	5	3	83	2	88	5						
07:30	7	1	108	5	115	6						
07:45	3	17	7	28	87	345	5	15	90	362	12	43
08:00	5	4	86	3	91	7						
08:15	8	2	64	1	72	3						
08:30	12	3	65	7	77	10						
08:45	9	34	5	14	50	265	2	13	59	299	7	27
09:00	10	4	32	6	42	10						
09:15	7	4	30	7	37	11						
09:30	7	3	11	3	18	6						
09:45	5	29	0	11	12	85	6	22	17	114	6	33
10:00	0	2	8	0	8	2						
10:15	8	0	10	0	18	0						
10:30	10	1	8	2	18	3						
10:45	2	20	0	3	10	36	1	3	12	56	1	6
11:00	8	1	7	1	15	2						
11:15	6	1	7	0	13	1						
11:30	2	1	4	0	6	1						
11:45	14	30	3	6	7	25	2	3	21	55	5	9
Total	149	1295	883	258	1032	1553						
Percent	14.4%	83.4%	85.6%	16.6%								
Day Total		1444		1141		2585						
Peak	08:15	-	05:15	-	07:15	-	00:45	-	07:15	-	05:15	-
Vol.	39	-	441	-	364	-	35	-	384	-	469	-
P.H.F.	0.813	-	0.904	-	0.843	-	0.875	-	0.835	-	0.923	-



PRECISION
D A T A
INDUSTRIES, LLC

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Glezen Lane
west of Concord Road (Route 126)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 B VOLUME
Site Code: T0558.05

Start Time	WB		EB		Combin ed		6/10/2016 Fri							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	3	10	0	5	3	15								
12:15	3	14	0	7	3	21								
12:30	0	12	0	1	0	13								
12:45	1	10	46	0	0	5	18	7	15	64				
01:00	0	19	0	7	0	7	0	0	26					
01:15	0	13	0	3	0	16								
01:30	0	14	0	4	0	18								
01:45	0	0	15	61	0	0	10	24	0	0	25	85		
02:00	0	7	0	9	0	16								
02:15	0	11	0	11	0	22								
02:30	0	10	0	4	0	14								
02:45	0	0	21	49	0	0	7	31	0	0	28	80		
03:00	0	32	0	9	0	41								
03:15	0	40	0	13	0	53								
03:30	0	53	0	4	0	57								
03:45	1	1	49	174	0	0	5	31	1	1	54	205		
04:00	0	57	0	4	0	61								
04:15	0	73	0	7	0	80								
04:30	0	73	0	12	0	85								
04:45	0	0	90	293	0	0	5	28	0	0	95	321		
05:00	0	99	0	7	0	106								
05:15	0	97	0	10	0	107								
05:30	0	90	0	4	0	94								
05:45	3	3	85	371	4	4	6	27	7	7	91	398		
06:00	0	51	4	5	4	56								
06:15	0	25	13	6	13	31								
06:30	2	8	34	7	36	15								
06:45	3	5	7	91	32	83	5	23	35	88	12	114		
07:00	6	10	47	2	53	12								
07:15	4	4	69	4	73	8								
07:30	7	4	76	3	83	7								
07:45	2	19	6	24	59	251	3	12	61	270	9	36		
08:00	10	2	48	4	58	6								
08:15	13	3	48	2	61	5								
08:30	7	5	44	4	51	9								
08:45	11	41	2	12	31	171	2	12	42	212	4	24		
09:00	7	1	18	2	25	3								
09:15	9	4	18	1	27	5								
09:30	7	3	11	3	18	6								
09:45	7	30	1	9	8	55	1	7	15	85	2	16		
10:00	4	2	7	0	11	2								
10:15	10	1	7	2	17	3								
10:30	0	0	6	2	6	2								
10:45	12	26	4	7	6	26	0	4	18	52	4	11		
11:00	9	0	7	0	16	0								
11:15	3	2	9	0	12	2								
11:30	4	2	5	0	9	2								
11:45	6	22	1	5	6	27	1	1	12	49	2	6		
Total	154	1142	617	218	771	1360								
Percent	20.0%	84.0%	80.0%	16.0%										
Day Total		1296		835		2131								
Peak	08:00	-	04:45	-	07:15	-	01:30	-	07:15	-	04:45	-	-	-
Vol.	41	-	376	-	252	-	34	-	275	-	402	-	-	-
P.H.F.	0.788		0.949		0.829		0.773		0.828		0.939			



PRECISION
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Glezen Lane
west of Concord Road (Route 126)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 B VOLUME
Site Code: T0558.05

Start Time	WB		EB		Combin ed		6/11/2016 Sat						
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	1	8	2	11	3	19							
12:15	0	9	0	6	0	15							
12:30	0	7	0	7	0	14							
12:45	0	1	8	32	1	3	29	1	4	13	61		
01:00	0	7	0	3	5	8	0	0	15				
01:15	0	5	1	5	1	10							
01:30	0	4	0	3	0	7							
01:45	0	0	3	19	0	1	7	23	0	1	10	42	
02:00	1	11	0	4	1	15							
02:15	0	5	0	3	0	8							
02:30	0	2	0	9	0	11							
02:45	0	1	8	26	0	0	8	24	0	1	16	50	
03:00	0	3	0	4	0	7							
03:15	0	5	0	5	0	10							
03:30	0	8	0	6	0	14							
03:45	0	0	7	23	0	0	4	19	0	0	11	42	
04:00	0	11	0	4	0	15							
04:15	0	6	0	2	0	8							
04:30	0	1	0	3	0	4							
04:45	0	0	4	22	0	0	4	13	0	0	8	35	
05:00	0	3	0	3	0	6							
05:15	1	4	0	1	1	5							
05:30	1	3	1	4	2	7							
05:45	1	3	3	13	0	1	2	10	1	4	5	23	
06:00	0	2	1	5	1	7							
06:15	2	6	1	1	3	7							
06:30	0	4	2	3	2	7							
06:45	2	4	8	20	2	6	4	13	4	10	12	33	
07:00	1	5	3	3	4	6							
07:15	4	3	3	4	7	7							
07:30	0	5	1	2	1	7							
07:45	5	10	0	13	4	11	2	9	9	21	2	22	
08:00	2	4	2	5	4	9							
08:15	6	0	4	3	10	3							
08:30	7	2	4	1	11	3							
08:45	5	20	2	8	6	16	3	12	11	36	5	20	
09:00	4	3	3	2	7	5							
09:15	10	2	2	3	12	5							
09:30	9	0	7	0	16	0							
09:45	7	30	2	7	7	19	1	6	14	49	3	13	
10:00	8	0	6	0	14	0							
10:15	9	1	4	1	13	2							
10:30	11	0	6	0	17	0							
10:45	3	31	0	1	9	25	0	1	12	56	0	2	
11:00	8	1	8	0	16	1							
11:15	16	1	8	1	24	2							
11:30	10	2	4	1	14	3							
11:45	8	42	3	7	3	23	0	2	11	65	3	9	
Total	142	191	105	161	247	352							
Percent	57.5%	54.3%	42.5%	45.7%									
Day Total		333		266		599							
Peak	11:00	-	12:00	-	10:30	-	12:00	-	10:30	-	12:00	-	-
Vol.	42	-	32	-	31	-	29	-	69	-	61	-	-
P.H.F.	0.656		0.889		0.861		0.659		0.719		0.803		-



PRECISION
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INDUSTRIES, LLC

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Glezen Lane
west of Concord Road (Route 126)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 BB Volume
Site Code: T0558.05

Start Time	WB		EB		Combin ed		6/19/2016 Sun					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	0	7	0	2	0	9						
12:15	0	4	1	4	1	8						
12:30	0	3	0	6	0	9						
12:45	0	4	18	0	1	4	16	0	1	8	34	
01:00	1	4	0	6	1	10						
01:15	0	7	0	3	0	10						
01:30	1	2	0	4	1	6						
01:45	0	4	17	1	1	1	14	1	3	5	31	
02:00	0	5	0	4	0	9						
02:15	0	1	0	2	0	3						
02:30	0	4	0	3	0	7						
02:45	0	7	17	0	0	1	10	0	0	8	27	
03:00	0	2	0	4	0	6						
03:15	0	0	0	1	0	1						
03:30	0	3	0	2	0	5						
03:45	0	6	11	0	0	10	17	0	0	16	28	
04:00	0	4	0	4	0	8						
04:15	0	4	0	2	0	6						
04:30	0	5	0	2	0	7						
04:45	0	6	19	0	0	1	9	0	0	7	28	
05:00	0	7	0	1	0	8						
05:15	0	3	1	8	1	11						
05:30	0	3	1	1	1	4						
05:45	0	6	19	1	3	3	13	1	3	9	32	
06:00	0	5	0	5	0	10						
06:15	3	3	0	3	3	6						
06:30	0	5	1	2	1	7						
06:45	0	3	16	2	3	2	12	2	6	5	28	
07:00	0	5	0	4	0	9						
07:15	3	4	0	0	3	4						
07:30	2	2	3	2	5	4						
07:45	3	3	14	5	8	4	10	8	16	7	24	
08:00	1	3	1	3	2	6						
08:15	7	1	6	1	13	2						
08:30	5	0	0	5	5	5						
08:45	2	15	1	5	5	12	3	12	7	27	4	17
09:00	2	5	0	0	2	5						
09:15	9	4	1	2	10	6						
09:30	3	1	5	1	8	2						
09:45	20	34	0	10	2	8	0	3	22	42	0	13
10:00	9	2	2	1	11	3						
10:15	4	0	2	0	6	0						
10:30	6	0	6	0	12	0						
10:45	5	24	0	2	5	15	0	1	10	39	0	3
11:00	7	1	3	0	10	1						
11:15	4	0	5	0	9	0						
11:30	5	0	7	0	12	0						
11:45	5	21	0	1	1	16	1	1	6	37	1	2
Total	107	149	67	118	174	267						
Percent	61.5%	55.8%	38.5%	44.2%								
Day Total		256		185		441						
Peak	09:15	-	04:15	-	10:45	-	00:15	-	09:15	-	00:30	-
Vol.	41	-	22	-	20	-	20	-	51	-	37	-
P.H.F.	0.513		0.786		0.714		0.833		0.580		0.925	

Glezen Lane east of Old Sudbury Road (Route 27)



PRECISION
DATA
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Glezen Lane
east of Old Sudbury Road (Route 27)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 A Volume
Site Code: T0558.05

Start Time	EB		WB		Combin ed		6/9/2016							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	Thu							
12:00	1	19	0	9	1	28								
12:15	0	12	0	20	0	32								
12:30	0	14	1	12	1	26								
12:45	0	11	56	0	1	20	61	0	2	31	117			
01:00	0	13	0	8	0	21								
01:15	1	12	0	13	1	25								
01:30	1	15	0	17	1	32								
01:45	0	18	58	0	0	10	48	0	2	28	106			
02:00	0	14	1	10	1	24								
02:15	0	7	0	18	0	25								
02:30	0	10	0	12	0	22								
02:45	0	11	42	0	1	17	57	0	1	28	99			
03:00	0	13	0	29	0	42								
03:15	0	14	0	30	0	44								
03:30	0	21	0	39	0	60								
03:45	0	6	54	0	0	61	159	0	0	67	213			
04:00	0	21	0	51	0	72								
04:15	0	16	0	84	0	100								
04:30	0	10	0	95	0	105								
04:45	0	11	58	0	0	111	341	0	0	122	399			
05:00	0	12	2	121	2	133								
05:15	0	11	1	110	1	121								
05:30	2	19	3	130	5	149								
05:45	3	10	52	1	7	127	488	4	12	137	540			
06:00	6	12	4	132	10	144								
06:15	34	4	1	104	35	108								
06:30	47	10	4	75	51	85								
06:45	58	6	32	7	16	38	349	65	161	44	381			
07:00	85	10	9	22	94	32								
07:15	102	18	8	8	110	26								
07:30	112	10	5	6	117	16								
07:45	95	7	45	11	33	9	45	106	427	16	90			
08:00	91	8	7	6	98	14								
08:15	81	6	12	4	93	10								
08:30	62	7	22	6	84	13								
08:45	47	281	7	28	20	61	5	21	67	342	12	49		
09:00	28	6	20	2	48	8								
09:15	33	6	14	6	47	12								
09:30	9	5	11	3	20	8								
09:45	16	86	7	24	8	53	2	13	24	139	9	37		
10:00	14	3	7	4	21	7								
10:15	13	2	14	1	27	3								
10:30	10	4	11	1	21	5								
10:45	16	53	2	11	7	39	1	7	23	92	3	18		
11:00	11	3	6	0	17	3								
11:15	18	1	18	2	36	3								
11:30	9	2	12	1	21	3								
11:45	19	57	1	7	21	57	1	4	40	114	2	11		
Total	1024	467	268	1593	1292	2060								
Percent	79.3%	22.7%	20.7%	77.3%										
Day Total		1491		1861		3352								
Peak	07:15	-	03:30	-	08:30	-	05:15	-	07:15	-	05:15	-	-	-
Vol.	400	-	64	-	76	-	499	-	431	-	551	-	-	-
P.H.F.	0.893	-	0.762	-	0.864	-	0.945	-	0.921	-	0.924	-	-	-



PRECISION
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Glezen Lane
east of Old Sudbury Road (Route 27)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 A Volume
Site Code: T0558.05

Start Time	EB		WB		Combin ed		6/10/2016 Fri						
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	0	12	1	13	1	25							
12:15	1	10	0	20	1	30							
12:30	0	8	0	15	0	23							
12:45	0	1	15	45	1	2	21	69	1	3	36	114	
01:00	0	11	0	15	0	26							
01:15	1	7	0	22	1	29							
01:30	0	13	0	18	0	31							
01:45	0	1	12	43	0	0	19	74	0	1	31	117	
02:00	0	15	0	17	0	32							
02:15	0	14	0	15	0	29							
02:30	0	13	0	17	0	30							
02:45	0	0	17	59	0	0	28	77	0	0	45	136	
03:00	0	25	0	36	0	61							
03:15	1	14	0	57	1	71							
03:30	0	17	0	67	0	84							
03:45	1	2	11	67	0	0	57	217	1	2	68	284	
04:00	0	11	0	68	0	79							
04:15	0	12	0	82	0	94							
04:30	0	15	0	82	0	97							
04:45	0	0	11	49	1	1	98	330	1	1	109	379	
05:00	0	14	2	125	2	139							
05:15	1	9	1	98	2	107							
05:30	0	14	2	107	2	121							
05:45	3	4	8	45	5	10	93	423	8	14	101	468	
06:00	6	14	2	63	8	77							
06:15	22	12	5	33	27	45							
06:30	38	11	2	18	40	29							
06:45	37	103	7	44	7	16	19	133	44	119	26	177	
07:00	62	3	11	13	73	16							
07:15	85	10	5	5	90	15							
07:30	87	9	10	8	97	17							
07:45	65	299	6	28	8	34	10	36	73	333	16	64	
08:00	55	10	11	7	66	17							
08:15	49	6	21	3	70	9							
08:30	48	9	6	7	54	16							
08:45	31	183	8	33	23	61	5	22	54	244	13	55	
09:00	23	8	19	0	42	8							
09:15	26	3	17	9	43	12							
09:30	17	5	16	4	33	9							
09:45	12	78	4	20	15	67	0	13	27	145	4	33	
10:00	12	2	14	1	26	3							
10:15	11	1	14	0	25	1							
10:30	10	2	6	1	16	3							
10:45	9	42	0	5	20	54	2	4	29	96	2	9	
11:00	10	0	11	0	21	0							
11:15	19	1	8	0	27	1							
11:30	7	1	10	3	17	4							
11:45	10	46	1	3	10	39	0	3	20	85	1	6	
Total	759	441	284	1401	1043	1842							
Percent	72.8%	23.9%	27.2%	76.1%									
Day Total		1200		1685		2885							
Peak	07:00	-	02:45	-	08:45	-	04:45	-	07:00	-	04:45	-	-
Vol.	299	-	73	-	75	-	428	-	333	-	476	-	-
P.H.F.	0.859		0.730		0.815		0.856		0.858		0.856		

Glezen Lane
 east of Old Sudbury Road (Route 27)
 City, State: Wayland, MA
 Client: TEC/ K. Dandrade



165117 A Volume
 Site Code: T0558.05

Start Time	EB		WB		Combin ed		6/11/2016 Sat
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.	
12:00	1	16	1	7	2	23	
12:15	0	13	1	14	1	27	
12:30	0	10	0	9	0	19	
12:45	2	3 11	50	0 2	15 45	2 26	95
01:00	2	13	0	14	2	27	
01:15	0	14	0	13	0	27	
01:30	0	8	1	6	1	14	
01:45	0	2 16	51	0 1	9 42	0 25	93
02:00	0	11	1	10	1	21	
02:15	0	8	1	12	1	20	
02:30	0	13	0	1	0	14	
02:45	0	0 11	43	0 2	11 34	0 22	77
03:00	0	8	0	5	0	13	
03:15	1	7	0	12	1	19	
03:30	0	7	0	10	0	17	
03:45	0	1 9	31	0 0	15 42	0 24	73
04:00	0	7	0	10	0	17	
04:15	0	10	0	10	0	20	
04:30	0	6	1	5	1	11	
04:45	0	0 8	31	0 1	8 33	0 16	64
05:00	1	8	0	7	1	15	
05:15	0	9	0	7	0	16	
05:30	0	5	1	5	1	10	
05:45	0	1 2	24	0 1	2 21	0 4	45
06:00	2	12	0	5	2	17	
06:15	2	5	6	11	8	16	
06:30	4	7	1	7	5	14	
06:45	6	14 10	34	7 14	7 30	13 17	64
07:00	6	3	4	8	10	11	
07:15	3	10	5	7	8	17	
07:30	4	7	6	3	10	10	
07:45	11	24 7	27	8 23	3 21	19 10	48
08:00	7	12	5	2	12	14	
08:15	11	4	11	3	22	7	
08:30	8	5	5	4	13	9	
08:45	6	32 3	24	10 31	3 12	16 6	36
09:00	5	5	9	5	14	10	
09:15	10	5	17	0	27	5	
09:30	11	0	21	1	32	1	
09:45	6	32 3	13	6 53	3 9	12 6	22
10:00	12	1	14	0	26	1	
10:15	15	1	17	0	32	1	
10:30	11	2	13	1	24	3	
10:45	15	53 3	7	6 50	1 2	21 4	9
11:00	14	2	11	1	25	3	
11:15	14	3	13	2	27	5	
11:30	16	1	20	5	36	6	
11:45	13	57 0	6	16 60	2 10	29 2	16
Total	219	341	238	301	457	642	
Percent	47.9%	53.1%	52.1%	46.9%			
Day Total		560		539		1099	
Peak	10:45	- 01:00	- 11:00	- 00:15	- 11:00	- 00:15	- - -
Vol.	59	- 51	- 60	- 52	- 117	- 99	- - -
P.H.F.	0.922	0.797	0.714	0.867	0.813	0.917	



PRECISION
D A T A
INDUSTRIES, LLC

46 Morton Street, Framingham, MA 01702
Office: 508-875-0100 Fax: 508-875-0118
Email: datarequests@pdillc.com

Glezen Lane
east of Old Sudbury Road (Route 27)
City, State: Wayland, MA
Client: TEC/ K. Dandrade

165117 AA Volume
Site Code: T0558.05

Start Time	EB		WB		Combin ed		6/19/2016 Sun					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	0	4	1	5	1	9						
12:15	2	6	0	10	2	16						
12:30	1	8	0	8	1	16						
12:45	1	4	14	32	0	1	4	27	1	5	18	59
01:00	0	6	0	2	0	8						
01:15	1	2	0	8	1	10						
01:30	0	11	1	6	1	17						
01:45	1	2	9	28	0	1	9	25	1	3	18	53
02:00	0	10	0	5	0	15						
02:15	0	7	0	7	0	14						
02:30	0	6	0	4	0	10						
02:45	0	0	6	29	0	0	10	26	0	0	16	55
03:00	0	5	0	7	0	12						
03:15	0	10	0	3	0	13						
03:30	0	5	0	7	0	12						
03:45	0	0	8	28	0	0	4	21	0	0	12	49
04:00	0	6	0	6	0	12						
04:15	0	5	0	7	0	12						
04:30	0	7	0	8	0	15						
04:45	0	0	9	27	0	0	10	31	0	0	19	58
05:00	0	3	0	9	0	12						
05:15	1	10	0	4	1	14						
05:30	1	3	0	3	1	6						
05:45	0	2	5	21	0	0	8	24	0	2	13	45
06:00	0	9	1	8	1	17						
06:15	0	6	2	7	2	13						
06:30	1	4	0	6	1	10						
06:45	1	2	4	23	3	6	3	24	4	8	7	47
07:00	1	9	1	5	2	14						
07:15	1	3	1	7	2	10						
07:30	5	7	4	3	9	10						
07:45	1	8	5	24	4	10	3	18	5	18	8	42
08:00	2	7	3	1	5	8						
08:15	2	4	2	5	4	9						
08:30	4	9	4	5	8	14						
08:45	6	14	6	26	9	18	3	14	15	32	9	40
09:00	3	3	3	5	6	8						
09:15	5	1	7	2	12	3						
09:30	7	1	8	2	15	3						
09:45	3	18	4	9	9	27	1	10	12	45	5	19
10:00	0	2	9	1	9	3						
10:15	5	1	4	0	9	1						
10:30	6	0	4	0	10	0						
10:45	7	18	1	4	5	22	1	2	12	40	2	6
11:00	7	0	12	0	19	0						
11:15	10	1	9	0	19	1						
11:30	11	1	12	0	23	1						
11:45	3	31	2	4	16	49	2	2	19	80	4	6
Total	99		255		134		224		233		479	
Percent	42.5%		53.2%		57.5%		46.8%					
Day Total		354			358				712			
Peak	10:45	-	01:30	-	11:00	-	04:15	-	11:00	-	01:30	-
Vol.	35	-	37	-	49	-	34	-	80	-	64	-
P.H.F.	0.795		0.661		0.766		0.850		0.870		0.889	