

MEMORANDUM

TO: Patricia A. Leavenworth, P.E.
Chief Engineer, MassDOT - Highway Division

FROM: Erin Pacileo, E.I.T.

DATE: November 26, 2013

RE: Newton Traffic Count Monitoring Program
Needham/Wellesley – I-95/Route 128 Transportation Improvement Project
Project File No. 603711; Bridge V Contract
Lawrence Cash, P.E. – MassDOT Project Management

PRINCIPALS
Joseph W. McMahon, P.E.
Joseph J. DeSantis, P.E., PTOE
John S. DePalma
William T. Steffens
Casey A. Moore, P.E.
Gary R. McNaughton, P.E., PTOE

ASSOCIATES
John J. Mitchell, P.E.
Christopher J. Williams, P.E.
R. Trent Ebersole, P.E.
Matthew M. Kozsuch, P.E.

As part of the I-95/Route 128 Transportation Improvement Project, traffic volume counts have been conducted within the City of Newton in order to document existing traffic patterns, prior to the construction of the proposed improvements. The traffic data collected is the preliminary step of a traffic monitoring program that will establish a baseline of traffic volumes for comparison to future traffic volumes after construction of the project. The following memorandum briefly summarizes the baseline count program conducted as part of the I-95/Route 128 project.

The traffic monitoring program included Automatic Traffic Recorders (ATRs) and manual turning movement counts at locations agreed upon with the City of Newton. The 48-hour ATR counts were completed from Tuesday, October 22, 2013 to Wednesday, October 23, 2013 at the following locations:

- Quinobequin Road – east of I-95/Route 128 overpass
- Quinobequin Road – north of Route 9
- Surface Road – between Chestnut Street and Quinobequin Road
- Kendrick Street – east of I-95/ Route 128 overpass
- Nahanton Street – west of Dedham Street

Within the study area, manual turning movement counts were conducted on Tuesday, October 22, 2013 to establish a baseline prior to the I-95/Route 128 construction. Manual turning movement counts were conducted at the following locations:

- Nahanton Street at Wells Avenue/Nahanton Park
- Nahanton Street at Winchester Street
- Nahanton Street at Dedham Street
- Quinobequin Road at Lakespur Road

Patricia A. Leavenworth, P.E.

November 26, 2013

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The ATR and manual turning movement count data is attached to this memorandum.

Continued coordination will be necessary in order to respond to potential concerns at the locations discussed above by conducting additional counts during and after construction, on an as needed basis. If traffic conditions at these locations do not present any issues, during or after construction, there would be no need to conduct further counts. Based on future coordination with the City of Newton, any location identified as having experienced an increase in traffic volumes can result in follow-up traffic counts. If additional counts are necessary, the timing and completion of the count will be coordinated at that time.

The traffic counts attached to this memorandum are presented as collected in the field. Should a comparison of existing and future volumes be necessary, it is anticipated that the existing and future volume data would require conversion to a more comparable format. Creating comparable data may include alteration of the counted data to account for seasonal adjustment, peak-hour traffic volumes and average annual daily traffic. As part of the review of existing and future traffic volume data, anticipated overall background growth is also important to identify and distinguish from specific changes in travel patterns due to the I-95/Route 128 Improvement Project. As future traffic counts are conducted, changes in traffic patterns will be assessed on an individual, location-by-location basis.

The results of the comparison between the baseline traffic volumes and potential future traffic volume counts will be reviewed and will inform a decision as to the appropriate action to be taken at each location. If you have any questions regarding the traffic monitoring program, please do not hesitate to contact us.

Quinobequin Road
 east of I-95 overpass
 City, State: Newton, MA
 Client: McMahon/ E. Pacileo



PRECISION
 D A T A
 INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

133590 A Volume
 Site Code: Y12564
 Date Start: 22-Oct-13

Start Time	EB		WB		Combin ed		22-Oct-13 Tue							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	1	11	2	16	3	27								
12:15	0	13	0	27	0	40								
12:30	0	10	0	13	0	23								
12:45	3	4	19	53	0	2	9	65	3	6	28	118		
01:00	0	16	0	18	0	34								
01:15	0	14	0	14	0	28								
01:30	0	11	0	17	0	28								
01:45	0	0	19	60	0	0	15	64	0	0	34	124		
02:00	0	10	0	16	0	26								
02:15	0	16	1	19	1	35								
02:30	0	19	0	18	0	37								
02:45	0	0	12	57	0	1	18	71	0	1	30	128		
03:00	0	20	0	36	0	56								
03:15	1	15	0	39	1	54								
03:30	0	13	0	39	0	52								
03:45	0	1	18	66	0	0	28	142	0	1	46	208		
04:00	0	15	0	41	0	56								
04:15	0	11	0	52	0	63								
04:30	0	14	0	38	0	52								
04:45	0	0	21	61	0	0	40	171	0	0	61	232		
05:00	0	10	2	46	2	56								
05:15	2	11	1	48	3	59								
05:30	3	13	0	51	3	64								
05:45	5	10	26	60	1	4	62	207	6	14	88	267		
06:00	0	9	2	49	2	58								
06:15	4	16	4	36	8	52								
06:30	15	12	6	30	21	42								
06:45	10	29	8	45	14	26	11	126	24	55	19	171		
07:00	14	7	25	13	39	20								
07:15	11	8	23	9	34	17								
07:30	27	7	27	13	54	20								
07:45	30	82	3	25	45	120	4	39	75	202	7	64		
08:00	31	8	26	9	57	17								
08:15	47	3	31	3	78	6								
08:30	31	3	24	11	55	14								
08:45	39	148	5	19	17	98	8	31	56	246	13	50		
09:00	39	5	24	6	63	11								
09:15	25	4	17	9	42	13								
09:30	23	1	15	6	38	7								
09:45	19	106	5	15	8	64	3	24	27	170	8	39		
10:00	12	3	14	2	26	5								
10:15	8	5	9	2	17	7								
10:30	17	0	21	3	38	3								
10:45	14	51	2	10	11	55	0	7	25	106	2	17		
11:00	8	0	12	2	20	2								
11:15	17	2	19	0	36	2								
11:30	15	1	14	2	29	3								
11:45	24	64	0	3	18	63	1	5	42	127	1	8		
Total	495		474		433		952		928		1426			
Percent	53.3%		33.2%		46.7%		66.8%							
Day Total		969		1385		2354								
Peak Vol.	08:15	-	02:15	-	07:30	-	05:15	-	07:45	-	05:15	-	-	-
P.H.F.	0.830	-	0.838	-	0.717	-	0.847	-	0.849	-	0.764	-	-	-

Quinobequin Road
east of I-95 overpass
City, State: Newton, MA
Client: McMahon/ E. Pacileo



PRECISION
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133590 A Volume
Site Code: Y12564
Date Start: 22-Oct-13

Start Time	EB		WB		Combin ed		23-Oct-13 Wed							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	1	16	0	9	1	25								
12:15	0	20	0	18	0	38								
12:30	0	20	0	21	0	41								
12:45	0	1	16	72	0	0	16	64	0	1	32	136		
01:00	0	20	0	19	0	39								
01:15	1	17	2	29	3	46								
01:30	1	10	1	14	2	24								
01:45	0	2	11	58	0	3	20	82	0	5	31	140		
02:00	0	22	0	25	0	47								
02:15	0	9	0	18	0	27								
02:30	0	10	0	13	0	23								
02:45	0	0	7	48	0	0	32	88	0	0	39	136		
03:00	0	16	0	51	0	67								
03:15	0	14	0	32	0	46								
03:30	0	8	0	31	0	39								
03:45	0	0	11	49	0	0	48	162	0	0	59	211		
04:00	0	18	0	45	0	63								
04:15	0	21	0	32	0	53								
04:30	0	13	0	31	0	44								
04:45	0	0	16	68	0	0	52	160	0	0	68	228		
05:00	3	12	1	53	4	65								
05:15	1	20	3	80	4	100								
05:30	2	19	0	44	2	63								
05:45	2	8	17	68	0	4	60	237	2	12	77	305		
06:00	0	12	2	41	2	53								
06:15	0	14	5	29	5	43								
06:30	10	9	3	32	13	41								
06:45	16	26	11	46	15	25	21	123	31	51	32	169		
07:00	15	10	31	18	46	28								
07:15	21	10	17	8	38	18								
07:30	19	4	43	19	62	23								
07:45	28	83	4	28	37	128	4	49	65	211	8	77		
08:00	37	2	37	5	74	7								
08:15	51	0	33	6	84	6								
08:30	36	3	31	4	67	7								
08:45	38	162	5	10	16	117	5	20	54	279	10	30		
09:00	28	4	13	5	41	9								
09:15	15	3	14	8	29	11								
09:30	16	2	13	6	29	8								
09:45	16	75	2	11	10	50	5	24	26	125	7	35		
10:00	12	1	18	3	30	4								
10:15	13	2	16	3	29	5								
10:30	16	0	14	2	30	2								
10:45	21	62	0	3	8	56	1	9	29	118	1	12		
11:00	12	2	15	0	27	2								
11:15	13	1	9	0	22	1								
11:30	18	2	13	1	31	3								
11:45	17	60	5	10	29	66	2	3	46	126	7	13		
Total	479		471		449		1021		928		1492			
Percent	51.6%		31.6%		48.4%		68.4%							
Day Total		950			1470				2420					
Peak Vol.	08:00	-	00:15	-	07:30	-	05:00	-	07:45	-	05:00	-	-	-
P.H.F.	162	-	76	-	150	-	237	-	290	-	305	-	-	-
	0.794		0.950		0.872		0.741		0.863		0.763			

Quinobequin Road
north of Boylston Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo



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	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.							
12:00	3	24	0	28	3	52							
12:15	0	19	1	23	1	42							
12:30	2	18	0	28	2	46							
12:45	3	8	13	74	0	1	23	102	3	9	36	176	
01:00	0	14	0	13	0	27							
01:15	0	18	0	20	0	38							
01:30	0	13	0	18	0	31							
01:45	0	0	21	66	0	0	21	72	0	0	42	138	
02:00	0	18	0	16	0	34							
02:15	0	15	1	22	1	37							
02:30	0	20	0	18	0	38							
02:45	0	0	17	70	0	1	25	81	0	1	42	151	
03:00	0	18	0	32	0	50							
03:15	1	18	0	40	1	58							
03:30	0	25	0	43	0	68							
03:45	0	1	21	82	0	0	48	163	0	1	69	245	
04:00	0	16	0	49	0	65							
04:15	0	22	0	57	0	79							
04:30	0	26	0	63	0	89							
04:45	1	1	25	89	1	1	66	235	2	2	91	324	
05:00	2	22	2	80	4	102							
05:15	2	27	5	78	7	105							
05:30	1	43	3	76	4	119							
05:45	3	8	30	122	1	11	90	324	4	19	120	446	
06:00	3	32	4	62	7	94							
06:15	4	29	10	64	14	93							
06:30	16	29	10	53	26	82							
06:45	17	40	15	105	9	33	36	215	26	73	51	320	
07:00	20	13	20	16	40	29							
07:15	42	11	28	11	70	22							
07:30	58	8	28	6	86	14							
07:45	54	174	8	40	42	118	6	39	96	292	14	79	
08:00	62	8	50	3	112	11							
08:15	53	5	40	4	93	9							
08:30	49	10	70	8	119	18							
08:45	38	202	12	35	34	194	2	17	72	396	14	52	
09:00	34	9	36	2	70	11							
09:15	22	10	25	6	47	16							
09:30	24	5	15	3	39	8							
09:45	27	107	5	29	13	89	0	11	40	196	5	40	
10:00	19	7	14	0	33	7							
10:15	10	6	17	3	27	9							
10:30	18	2	22	2	40	4							
10:45	20	67	0	15	14	67	2	7	34	134	2	22	
11:00	16	0	12	1	28	1							
11:15	28	1	18	0	46	1							
11:30	30	1	16	2	46	3							
11:45	33	107	0	2	21	67	0	3	54	174	0	5	
Total	715	729	582	1269	1297	1998							
Percent	55.1%	36.5%	44.9%	63.5%									
Day Total		1444		1851		3295							
Peak Vol.	07:30	-	05:30	-	07:45	-	05:00	-	07:45	-	05:00	-	-
P.H.F.	0.915	-	0.779	-	0.721	-	0.900	-	0.882	-	0.929	-	-

Quinobequin Road
north of Boylston Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo



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133590 B Volume
Site Code: Y12564
Date Start: 22-Oct-13

Start Time	NB		SB		Combin ed		23-Oct-13 Wed					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	1	41	1	17	2	58						
12:15	1	34	0	28	1	62						
12:30	1	36	0	22	1	58						
12:45	0	3	44	155	1	2	18	85	1	5	62	240
01:00	0		32		0		18		0		50	
01:15	0		15		1		22		1		37	
01:30	1		15		1		16		2		31	
01:45	0	1	12	74	0	2	25	81	0	3	37	155
02:00	0		11		0		28		0		39	
02:15	0		18		0		20		0		38	
02:30	0		18		0		20		0		38	
02:45	0	0	27	74	0	0	30	98	0	0	57	172
03:00	0		11		0		64		0		75	
03:15	0		18		0		42		0		60	
03:30	0		16		0		42		0		58	
03:45	0	0	17	62	0	0	56	204	0	0	73	266
04:00	0		19		0		52		0		71	
04:15	0		19		0		44		0		63	
04:30	0		26		0		44		0		70	
04:45	0	0	21	85	0	0	58	198	0	0	79	283
05:00	2		30		2		64		4		94	
05:15	2		33		4		86		6		119	
05:30	0		44		2		62		2		106	
05:45	3	7	49	156	3	11	68	280	6	18	117	436
06:00	2		27		6		52		8		79	
06:15	0		33		7		36		7		69	
06:30	9		19		6		31		15		50	
06:45	17	28	26	105	12	31	16	135	29	59	42	240
07:00	32		22		18		8		50		30	
07:15	40		14		16		12		56		26	
07:30	52		3		42		14		94		17	
07:45	62	186	12	51	35	111	3	37	97	297	15	88
08:00	55		7		36		2		91		9	
08:15	64		9		48		6		112		15	
08:30	40		8		47		2		87		10	
08:45	40	199	6	30	43	174	4	14	83	373	10	44
09:00	23		7		29		4		52		11	
09:15	32		3		48		4		80		7	
09:30	30		5		40		2		70		7	
09:45	8	93	4	19	25	142	4	14	33	235	8	33
10:00	17		4		40		1		57		5	
10:15	30		2		40		3		70		5	
10:30	28		4		26		1		54		5	
10:45	28	103	2	12	9	115	2	7	37	218	4	19
11:00	25		1		12		0		37		1	
11:15	24		3		16		1		40		4	
11:30	26		6		23		0		49		6	
11:45	27	102	5	15	17	68	4	5	44	170	9	20
Total	722		838		656		1158		1378		1996	
Percent	52.4%		42.0%		47.6%		58.0%					
Day Total		1560				1814				3374		
Peak Vol. P.H.F.	07:30 - 0.910	05:00 - 0.796	08:00 - 0.906	05:00 - 0.814	07:30 - 0.879	05:00 - 0.916						

Boylston Street between
Chestnut St & Quinobequin Road
City, State: Newton, MA
south of West Street



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133590 C Volume
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Date Start: 22-Oct-13

Start Time	WB		EB		Combin ed		22-Oct- 13 Tue					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	4	48	0	17	4	65						
12:15	4	42	0	12	4	54						
12:30	1	51	0	12	1	63						
12:45	1	62	203	0	0	20	61	1	10	82	264	
01:00	2	44	0	16	2	60						
01:15	0	47	0	18	0	65						
01:30	0	44	0	13	0	57						
01:45	0	49	184	0	0	10	57	0	2	59	241	
02:00	1	54	0	22	1	76						
02:15	0	71	1	22	1	93						
02:30	0	64	0	20	0	84						
02:45	0	63	252	0	1	24	88	0	2	87	340	
03:00	2	70	0	21	2	91						
03:15	2	58	1	20	3	78						
03:30	1	66	0	33	1	99						
03:45	2	68	262	2	3	18	92	4	10	86	354	
04:00	1	78	0	34	1	112						
04:15	0	74	0	40	0	114						
04:30	3	91	0	48	3	139						
04:45	4	66	309	0	0	36	158	4	8	102	467	
05:00	2	66	1	32	3	98						
05:15	2	74	1	60	3	134						
05:30	8	62	2	63	10	125						
05:45	10	64	266	2	6	64	219	12	28	128	485	
06:00	17	72	4	51	21	123						
06:15	11	60	3	42	14	102						
06:30	20	60	10	50	30	110						
06:45	41	63	255	14	31	32	175	55	120	95	430	
07:00	48	40	26	6	74	46						
07:15	76	38	54	12	130	50						
07:30	80	24	36	6	116	30						
07:45	75	21	123	46	162	6	30	121	441	27	153	
08:00	88	24	64	4	152	28						
08:15	93	24	72	6	165	30						
08:30	93	22	81	5	174	27						
08:45	88	23	93	52	269	2	17	140	631	25	110	
09:00	74	17	53	1	127	18						
09:15	68	14	24	0	92	14						
09:30	52	11	18	2	70	13						
09:45	63	9	51	20	115	0	3	83	372	9	54	
10:00	35	5	13	2	48	7						
10:15	46	16	12	3	58	19						
10:30	53	8	20	1	73	9						
10:45	52	5	34	18	63	2	8	70	249	7	42	
11:00	43	3	8	1	51	4						
11:15	38	4	20	0	58	4						
11:30	52	9	20	2	72	11						
11:45	44	3	19	14	62	0	3	58	239	3	22	
Total	1400	2051	712	911	2112	2962						
Percent	66.3%	69.2%	33.7%	30.8%								
Day Total		3451		1623		5074						
Peak	08:00	-	03:45	-	08:00	-	05:15	-	-	-	-	
Vol.	362	-	311	-	269	-	238	-	631	-	510	-
P.H.F.	0.973		0.854		0.830		0.930		0.907		0.951	

Boylston Street between
Chestnut St & Quinobequin Road
City, State: Newton, MA
south of West Street



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	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	1	51	0	20	1	71								
12:15	1	62	0	24	1	86								
12:30	1	58	0	28	1	86								
12:45	2	40	211	1	1	21	93	3	6	61	304			
01:00	3	52	0	22	3	74								
01:15	0	57	0	18	0	75								
01:30	1	58	0	24	1	82								
01:45	2	58	225	0	0	21	85	2	6	79	310			
02:00	2	50	2	16	4	66								
02:15	1	52	0	20	1	72								
02:30	0	46	0	12	0	58								
02:45	0	63	211	0	2	27	75	0	5	90	286			
03:00	3	78	0	28	3	106								
03:15	0	85	0	46	0	131								
03:30	1	86	0	28	1	114								
03:45	0	80	329	0	0	41	143	0	4	121	472			
04:00	1	78	0	40	1	118								
04:15	0	88	0	30	0	118								
04:30	2	86	0	48	2	134								
04:45	2	66	318	1	1	52	170	3	6	118	488			
05:00	1	66	0	40	1	106								
05:15	2	64	0	69	2	133								
05:30	6	58	0	62	6	120								
05:45	12	61	249	4	4	64	235	16	25	125	484			
06:00	9	62	1	42	10	104								
06:15	14	71	4	42	18	113								
06:30	20	21	4	68	24	89								
06:45	36	0	154	12	21	76	228	48	100	76	382			
07:00	51	0	24	63	75	63								
07:15	74	0	52	50	126	50								
07:30	87	0	51	33	138	33								
07:45	75	287	0	44	171	37	183	119	458	37	183			
08:00	90	0	60	21	150	21								
08:15	98	0	85	22	183	22								
08:30	95	0	70	30	165	30								
08:45	92	375	2	62	277	17	90	154	652	19	92			
09:00	86	21	44	8	130	29								
09:15	62	12	21	5	83	17								
09:30	50	9	18	2	68	11								
09:45	42	240	3	16	99	0	15	58	339	3	60			
10:00	30	7	16	1	46	8								
10:15	42	5	18	0	60	5								
10:30	45	10	21	0	66	10								
10:45	48	165	6	20	75	2	3	68	240	8	31			
11:00	54	8	22	3	76	11								
11:15	60	6	30	1	90	7								
11:30	46	12	11	2	57	14								
11:45	52	212	13	22	85	2	8	74	297	15	47			
Total	1402	1811	736	1328	2138	3139								
Percent	65.6%	57.7%	34.4%	42.3%										
Day Total		3213		2064		5277								
Peak	08:00	-	03:30	-	08:00	-	06:30	-	08:00	-	03:45	-	-	-
Vol.	375	-	332	-	277	-	257	-	652	-	491	-	-	-
P.H.F.	0.957		0.943		0.815		0.845		0.891		0.916			

Kendrick Street
east of I-95 overpass
City, State: Needham, MA
Client: McMahon/ E. Pacileo



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

133590 D Volume
Site Code: Y12564
Date Start: 22-Oct-13

Start Time	EB		WB		Combin ed		22-Oct-13 Tue					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.						
12:00	5	136		9	163	14	299					
12:15	1	116		4	135	5	251					
12:30	0	140		5	132	5	272					
12:45	1	7	149	541	6	24	132	562	7	31	281	1103
01:00	1		116		4		154		5		270	
01:15	1		133		7		144		8		277	
01:30	8		90		6		115		14		205	
01:45	1	11	112	451	2	19	150	563	3	30	262	1014
02:00	1		104		6		134		7		238	
02:15	1		108		1		162		2		270	
02:30	1		105		2		182		3		287	
02:45	2	5	142	459	3	12	218	696	5	17	360	1155
03:00	2		148		4		184		6		332	
03:15	1		162		2		226		3		388	
03:30	2		164		2		228		4		392	
03:45	2	7	152	626	2	10	220	858	4	17	372	1484
04:00	1		124		0		308		1		432	
04:15	4		124		4		291		8		415	
04:30	6		117		4		372		10		489	
04:45	8	19	129	494	1	9	355	1326	9	28	484	1820
05:00	16		123		8		450		24		573	
05:15	21		140		6		362		27		502	
05:30	26		156		14		376		40		532	
05:45	49	112	126	545	14	42	346	1534	63	154	472	2079
06:00	42		148		14		371		56		519	
06:15	98		137		20		312		118		449	
06:30	142		118		37		269		179		387	
06:45	183	465	89	492	48	119	262	1214	231	584	351	1706
07:00	254		82		62		209		316		291	
07:15	320		92		80		108		400		200	
07:30	391		57		116		108		507		165	
07:45	423	1388	67	298	104	362	96	521	527	1750	163	819
08:00	426		61		112		92		538		153	
08:15	444		56		102		94		546		150	
08:30	438		36		106		78		544		114	
08:45	471	1779	44	197	113	433	62	326	584	2212	106	523
09:00	430		32		98		65		528		97	
09:15	335		31		94		58		429		89	
09:30	226		23		99		45		325		68	
09:45	196	1187	14	100	85	376	45	213	281	1563	59	313
10:00	147		18		89		37		236		55	
10:15	156		4		78		19		234		23	
10:30	118		9		95		19		213		28	
10:45	116	537	6	37	102	364	18	93	218	901	24	130
11:00	120		11		89		4		209		15	
11:15	93		10		103		16		196		26	
11:30	126		10		120		9		246		19	
11:45	125	464	4	35	128	440	10	39	253	904	14	74
Total	5981		4275		2210		7945		8191		12220	
Percent	73.0%		35.0%		27.0%		65.0%					
Day Total		10256			10155				20411			
Peak Vol.	08:15	-	03:00	-	11:00	-	04:45	-	08:00	-	04:45	-
P.H.F.	1783	-	626	-	440	-	1543	-	2212	-	2091	-
	0.946		0.954		0.859		0.857		0.947		0.912	

Kendrick Street
east of I-95 overpass
City, State: Needham, MA
Client: McMahon/ E. Pacileo



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

133590 D Volume
Site Code: Y12564
Date Start: 22-Oct-13

Start Time	EB		WB		Combin ed		23-Oct-13 Wed							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	3	132	9	164	12	296								
12:15	4	112	10	158	14	270								
12:30	0	148	7	142	7	290								
12:45	3	10 143	535	8 34	132	596	11 44	275	1131					
01:00	1	121		13	139		14	260						
01:15	1	139		1	136		2	275						
01:30	5	131		2	138		7	269						
01:45	1	8 130	521	1 17	130	543	2 25	260	1064					
02:00	1	104		1	167		2	271						
02:15	0	102		2	194		2	296						
02:30	1	128		4	195		5	323						
02:45	2	4 118	452	2 9	190	746	4 13	308	1198					
03:00	1	128		0	214		1	342						
03:15	1	166		1	190		2	356						
03:30	0	146		0	252		0	398						
03:45	3	5 172	612	2 3	308	964	5 8	480	1576					
04:00	2	128		2	314		4	442						
04:15	5	133		2	283		7	416						
04:30	6	150		8	382		14	532						
04:45	14	27 154	565	2 14	352	1331	16 41	506	1896					
05:00	9	148		4	414		13	562						
05:15	18	172		10	360		28	532						
05:30	30	202		12	360		42	562						
05:45	42	99 170	692	15 41	346	1480	57 140	516	2172					
06:00	54	162		29	365		83	527						
06:15	96	124		24	312		120	436						
06:30	116	127		32	234		148	361						
06:45	195	461 101	514	56 141	167	1078	251 602	268	1592					
07:00	226	88		68	146		294	234						
07:15	312	78		84	130		396	208						
07:30	362	72		98	114		460	186						
07:45	408	1308 70	308	96 346	101	491	504 1654	171	799					
08:00	409	46		136	104		545	150						
08:15	450	50		104	83		554	133						
08:30	436	46		110	84		546	130						
08:45	426	1721 48	190	102 452	52	323	528 2173	100	513					
09:00	372	42		86	66		458	108						
09:15	317	35		138	60		455	95						
09:30	244	19		110	44		354	63						
09:45	206	1139 16	112	86 420	38	208	292 1559	54	320					
10:00	176	22		104	33		280	55						
10:15	150	15		96	25		246	40						
10:30	138	9		78	20		216	29						
10:45	146	610 7	53	104 382	32	110	250 992	39	163					
11:00	112	17		102	17		214	34						
11:15	104	7		100	13		204	20						
11:30	134	10		124	29		258	39						
11:45	134	484 6	40	142 468	20	79	276 952	26	119					
Total	5876	4594		2327	7949		8203	12543						
Percent	71.6%	36.6%		28.4%	63.4%									
Day Total		10470		10276			20746							
Peak	08:00	-	05:15	-	11:00	-	04:30	-	08:00	-	05:00	-	-	-
Vol.	1721	-	706	-	468	-	1508	-	2173	-	2172	-	-	-
P.H.F.	0.956		0.874		0.824		0.911		0.981		0.966			

Nahanton Street
 west of Dedham Street
 City, State: Newton, MA
 Client: McMahon/ E. Pacileo



PRECISION
 D A T A
 INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
 Office: 508.481.3999 Fax: 508.545.1234
 Email: datarequests@pdillc.com

133590 E Volume
 Site Code: Y12564
 Date Start: 22-Oct-13

Start Time	WB		EB				Combin ed		22-Oct- 13 Tue					
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	4	118	8	116	12	234								
12:15	0	115	6	101	6	216								
12:30	2	118	8	100	10	218								
12:45	1	7	107	458	9	31	98	415	10	38	205	873		
01:00	4	105	4	104	8	209								
01:15	2	107	4	100	6	207								
01:30	0	98	3	91	3	189								
01:45	0	6	126	436	2	13	88	383	2	19	214	819		
02:00	2	129	1	112	3	241								
02:15	0	148	0	99	0	247								
02:30	0	168	0	102	0	270								
02:45	0	2	186	631	3	4	128	441	3	6	314	1072		
03:00	0	188	4	120	4	308								
03:15	0	212	1	151	1	363								
03:30	1	188	0	148	1	336								
03:45	0	1	202	790	0	5	164	583	0	6	366	1373		
04:00	1	198	0	141	1	339								
04:15	4	166	0	166	4	332								
04:30	11	147	0	172	11	319								
04:45	10	26	180	691	2	2	151	630	12	28	331	1321		
05:00	7	152	2	242	9	394								
05:15	18	164	6	256	24	420								
05:30	41	151	18	239	59	390								
05:45	35	101	164	631	19	45	234	971	54	146	398	1602		
06:00	39	151	22	197	61	348								
06:15	44	158	53	225	97	383								
06:30	64	130	84	200	148	330								
06:45	100	247	120	559	110	269	138	760	210	516	258	1319		
07:00	114	110	152	123	266	233								
07:15	176	96	180	104	356	200								
07:30	230	81	180	88	410	169								
07:45	252	772	77	364	172	684	114	429	424	1456	191	793		
08:00	239	60	189	73	428	133								
08:15	254	62	136	80	390	142								
08:30	271	66	130	72	401	138								
08:45	253	1017	45	233	130	585	57	282	383	1602	102	515		
09:00	169	44	130	71	299	115								
09:15	168	42	120	58	288	100								
09:30	134	21	108	54	242	75								
09:45	118	589	28	135	116	474	40	223	234	1063	68	358		
10:00	120	13	83	46	203	59								
10:15	121	9	104	14	225	23								
10:30	88	12	88	25	176	37								
10:45	112	441	6	40	87	362	12	97	199	803	18	137		
11:00	92	3	94	16	186	19								
11:15	96	11	94	12	190	23								
11:30	91	10	102	16	193	26								
11:45	96	375	5	29	104	394	12	56	200	769	17	85		
Total	3584	4997	2868	5270	6452	10267								
Percent	55.5%	48.7%	44.5%	51.3%										
Day Total		8581		8138		16719								
Peak	08:00	-	03:15	-	07:15	-	05:00	-	07:30	-	05:00	-	-	-
Vol.	1017	-	800	-	721	-	971	-	1652	-	1602	-	-	-
P.H.F.	0.938		0.943		0.954		0.948		0.965		0.954			

Nahanton Street
west of Dedham Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo



PRECISION
D A T A
INDUSTRIES, LLC

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Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

133590 E Volume
Site Code: Y12564
Date Start: 22-Oct-13

Start Time	WB		EB		Combin ed		23-Oct-13 Wed							
	A.M.	P.M.	A.M.	P.M.	A.M.	P.M.								
12:00	3	115		7	111	10	226							
12:15	3	111		4	100	7	211							
12:30	4	96		4	104	8	200							
12:45	3	122	444	7	22	107	422	10	35	229	866			
01:00	1	119		5	104	6	223							
01:15	1	112		2	108	3	220							
01:30	1	88		4	98	5	186							
01:45	1	145	464	2	13	122	432	3	17	267	896			
02:00	1	122		1	124	2	246							
02:15	0	132		1	101	1	233							
02:30	0	107		5	110	5	217							
02:45	0	168	529	2	9	148	483	2	10	316	1012			
03:00	0	174		4	119	4	293							
03:15	0	226		0	134	0	360							
03:30	0	186		1	155	1	341							
03:45	1	182	768	0	5	148	556	1	6	330	1324			
04:00	1	210		2	131	3	341							
04:15	7	194		0	182	7	376							
04:30	12	136		4	180	16	316							
04:45	18	156	696	6	12	171	664	24	50	327	1360			
05:00	12	153		2	202	14	355							
05:15	14	172		4	194	18	366							
05:30	27	176		15	194	42	370							
05:45	37	157	658	22	43	180	770	59	133	337	1428			
06:00	48	124		28	198	76	322							
06:15	56	154		60	176	116	330							
06:30	66	109		74	196	140	305							
06:45	98	97	484	116	278	172	742	214	546	269	1226			
07:00	98	91		149	132	247	223							
07:15	186	71		160	93	346	164							
07:30	206	74		188	96	394	170							
07:45	244	63	299	165	662	95	416	409	1396	158	715			
08:00	244	65		142	88	386	153							
08:15	262	53		141	76	403	129							
08:30	272	36		132	88	404	124							
08:45	226	32	186	140	555	66	318	366	1559	98	504			
09:00	186	28		122	72	308	100							
09:15	166	44		105	46	271	90							
09:30	136	20		101	39	237	59							
09:45	125	25	117	109	437	29	186	234	1050	54	303			
10:00	122	33		109	30	231	63							
10:15	112	11		98	18	210	29							
10:30	100	18		108	9	208	27							
10:45	108	17	79	121	436	15	72	229	878	32	151			
11:00	105	9		98	24	203	33							
11:15	106	15		92	12	198	27							
11:30	76	18		104	17	180	35							
11:45	124	17	59	120	414	17	70	244	825	34	129			
Total	3619	4783		2886	5131	6505	9914							
Percent	55.6%	48.2%		44.4%	51.8%									
Day Total		8402			8017		16419							
Peak	07:45	-	03:15	-	07:00	-	05:00	-	07:45	-	05:00	-	-	-
Vol.	1022	-	804	-	662	-	770	-	1602	-	1428	-	-	-
P.H.F.	0.939		0.889		0.880		0.953		0.979		0.965			



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
Office: 508.481.3999 Fax: 508.545.1234
Email: datarequests@pdillc.com

N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 A
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
07:00 AM	10	0	14	0	12	90	28	0	4	0	8	0	61	177	7	0	411
07:15 AM	0	0	15	0	11	137	32	0	13	0	8	0	56	236	11	0	519
07:30 AM	4	1	14	0	10	180	68	0	19	1	22	0	97	210	14	0	640
07:45 AM	9	9	15	0	50	162	103	0	59	4	30	0	159	188	21	0	809
Total	23	10	58	0	83	569	231	0	95	5	68	0	373	811	53	0	2379
08:00 AM	7	1	14	0	28	186	78	0	61	3	24	0	132	196	21	0	751
08:15 AM	23	1	8	0	38	185	111	0	21	1	17	0	144	160	19	0	728
08:30 AM	14	1	14	0	34	186	109	0	14	2	17	0	169	153	26	0	739
08:45 AM	23	1	17	0	33	184	111	0	6	0	20	0	174	173	25	0	767
Total	67	4	53	0	133	741	409	0	102	6	78	0	619	682	91	0	2985
Grand Total	90	14	111	0	216	1310	640	0	197	11	146	0	992	1493	144	0	5364
Apprch %	41.9	6.5	51.6	0	10	60.5	29.5	0	55.6	3.1	41.2	0	37.7	56.8	5.5	0	
Total %	1.7	0.3	2.1	0	4	24.4	11.9	0	3.7	0.2	2.7	0	18.5	27.8	2.7	0	
Cars	88	14	109	0	214	1293	630	0	185	10	139	0	982	1458	142	0	5264
% Cars	97.8	100	98.2	0	99.1	98.7	98.4	0	93.9	90.9	95.2	0	99	97.7	98.6	0	98.1
Heavy Vehicles	2	0	2	0	2	17	10	0	12	1	7	0	10	35	2	0	100
% Heavy Vehicles	2.2	0	1.8	0	0.9	1.3	1.6	0	6.1	9.1	4.8	0	1	2.3	1.4	0	1.9

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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 07:45 AM																					
07:45 AM	9	9	15	0	33	50	162	103	0	315	59	4	30	0	93	159	188	21	0	368	809
08:00 AM	7	1	14	0	22	28	186	78	0	292	61	3	24	0	88	132	196	21	0	349	751
08:15 AM	23	1	8	0	32	38	185	111	0	334	21	1	17	0	39	144	160	19	0	323	728
08:30 AM	14	1	14	0	29	34	186	109	0	329	14	2	17	0	33	169	153	26	0	348	739
Total Volume	53	12	51	0	116	150	719	401	0	1270	155	10	88	0	253	604	697	87	0	1388	3027
% App. Total	45.7	10.3	44	0	98.3	11.8	56.6	31.6	0	98.9	61.3	4	34.8	0	94.9	43.5	50.2	6.3	0		
PHF	.576	.333	.850	.000	.879	.750	.966	.903	.000	.951	.635	.625	.733	.000	.680	.893	.889	.837	.000	.943	.935
Cars	52	12	50	0	114	150	710	396	0	1256	147	9	84	0	240	599	681	85	0	1365	2975
% Cars	98.1	100	98.0	0	98.3	100	98.7	98.8	0	98.9	94.8	90.0	95.5	0	94.9	99.2	97.7	97.7	0	98.3	98.3
Heavy Vehicles	1	0	1	0	2	0	9	5	0	14	8	1	4	0	13	5	16	2	0	23	52
% Heavy Vehicles	1.9	0	2.0	0	1.7	0	1.3	1.2	0	1.1	5.2	10.0	4.5	0	5.1	0.8	2.3	2.3	0	1.7	1.7



PRECISION
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N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 A
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
07:00 AM	9	0	14	0	11	87	27	0	4	0	7	0	61	174	7	0	401
07:15 AM	0	0	14	0	11	135	30	0	11	0	7	0	55	233	11	0	507
07:30 AM	4	1	14	0	9	179	66	0	17	1	21	0	95	204	14	0	625
07:45 AM	9	9	15	0	50	159	101	0	57	4	29	0	155	185	19	0	792
Total	22	10	57	0	81	560	224	0	89	5	64	0	366	796	51	0	2325
08:00 AM	6	1	14	0	28	185	78	0	58	3	23	0	132	193	21	0	742
08:15 AM	23	1	7	0	38	182	109	0	20	1	16	0	143	155	19	0	714
08:30 AM	14	1	14	0	34	184	108	0	12	1	16	0	169	148	26	0	727
08:45 AM	23	1	17	0	33	182	111	0	6	0	20	0	172	166	25	0	756
Total	66	4	52	0	133	733	406	0	96	5	75	0	616	662	91	0	2939
Grand Total	88	14	109	0	214	1293	630	0	185	10	139	0	982	1458	142	0	5264
Apprch %	41.7	6.6	51.7	0	10	60.5	29.5	0	55.4	3	41.6	0	38	56.5	5.5	0	
Total %	1.7	0.3	2.1	0	4.1	24.6	12	0	3.5	0.2	2.6	0	18.7	27.7	2.7	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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 07:45 AM																					
07:45 AM	9	9	15	0	33	50	159	101	0	310	57	4	29	0	90	155	185	19	0	359	792
08:00 AM	6	1	14	0	21	28	185	78	0	291	58	3	23	0	84	132	193	21	0	346	742
08:15 AM	23	1	7	0	31	38	182	109	0	329	20	1	16	0	37	143	155	19	0	317	714
08:30 AM	14	1	14	0	29	34	184	108	0	326	12	1	16	0	29	169	148	26	0	343	727
Total Volume	52	12	50	0	114	150	710	396	0	1256	147	9	84	0	240	599	681	85	0	1365	2975
% App. Total	45.6	10.5	43.9	0		11.9	56.5	31.5	0		61.2	3.8	35	0		43.9	49.9	6.2	0		
PHF	.565	.333	.833	.000	.864	.750	.959	.908	.000	.954	.634	.563	.724	.000	.667	.886	.882	.817	.000	.951	.939



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N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 A
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
07:00 AM	1	0	0	0	1	3	1	0	0	0	1	0	0	3	0	0	10
07:15 AM	0	0	1	0	0	2	2	0	2	0	1	0	1	3	0	0	12
07:30 AM	0	0	0	0	1	1	2	0	2	0	1	0	2	6	0	0	15
07:45 AM	0	0	0	0	0	3	2	0	2	0	1	0	4	3	2	0	17
Total	1	0	1	0	2	9	7	0	6	0	4	0	7	15	2	0	54
08:00 AM	1	0	0	0	0	1	0	0	3	0	1	0	0	3	0	0	9
08:15 AM	0	0	1	0	0	3	2	0	1	0	1	0	1	5	0	0	14
08:30 AM	0	0	0	0	0	2	1	0	2	1	1	0	0	5	0	0	12
08:45 AM	0	0	0	0	0	2	0	0	0	0	0	0	2	7	0	0	11
Total	1	0	1	0	0	8	3	0	6	1	3	0	3	20	0	0	46
Grand Total	2	0	2	0	2	17	10	0	12	1	7	0	10	35	2	0	100
Apprch %	50	0	50	0	6.9	58.6	34.5	0	60	5	35	0	21.3	74.5	4.3	0	
Total %	2	0	2	0	2	17	10	0	12	1	7	0	10	35	2	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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 07:30 AM																					
07:30 AM	0	0	0	0	0	1	1	2	0	4	2	0	1	0	3	2	6	0	0	8	15
07:45 AM	0	0	0	0	0	0	3	2	0	5	2	0	1	0	3	4	3	2	0	9	17
08:00 AM	1	0	0	0	1	0	1	0	0	1	3	0	1	0	4	0	3	0	0	3	9
08:15 AM	0	0	1	0	1	0	3	2	0	5	1	0	1	0	2	1	5	0	0	6	14
Total Volume	1	0	1	0	2	1	8	6	0	15	8	0	4	0	12	7	17	2	0	26	55
% App. Total	50	0	50	0		6.7	53.3	40	0		66.7	0	33.3	0		26.9	65.4	7.7	0		
PHF	.250	.000	.250	.000	.500	.250	.667	.750	.000	.750	.667	.000	1.000	.000	.750	.438	.708	.250	.000	.722	.809



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City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 A
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Peds and Bikes

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
07:00 AM	0	0	0	0	0	3	0	0	0	0	0	0	0	3	0	0	6
07:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2
07:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
07:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	7	0	0	8
Total	0	0	0	0	0	4	1	0	1	0	0	0	0	12	0	0	18
08:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	4	0	0	5
08:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
08:30 AM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	5	0	0	9
Grand Total	0	0	0	0	0	8	1	0	1	0	0	0	0	17	0	0	27
Apprch %	0	0	0	0	0	88.9	11.1	0	100	0	0	0	0	100	0	0	
Total %	0	0	0	0	0	29.6	3.7	0	3.7	0	0	0	0	63	0	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	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	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	6
07:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	2
07:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2
07:45 AM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	7	0	0	7	8
Total Volume	0	0	0	0	0	0	4	1	0	5	1	0	0	0	1	0	12	0	0	12	18
% App. Total	0	0	0	0	0	0	80	20	0	100	100	0	0	0	100	0	100	0	0	100	
PHF	.000	.000	.000	.000	.000	.000	.333	.250	.000	.417	.250	.000	.000	.000	.250	.000	.429	.000	.000	.429	.563



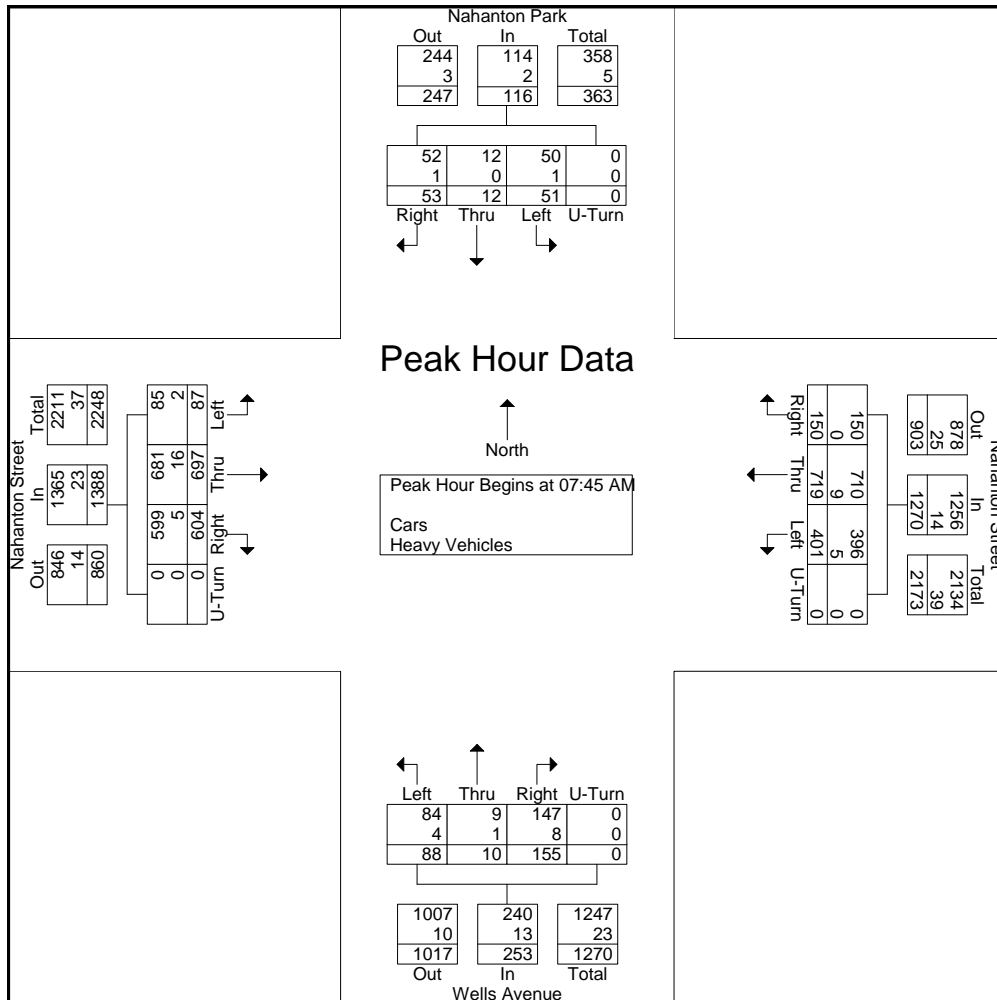
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Client: McMahon/ E. Pacileo

File Name : 133590 A
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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 07:45 AM																					
07:45 AM	9	9	15	0	33	50	162	103	0	315	59	4	30	0	93	159	188	21	0	368	809
08:00 AM	7	1	14	0	22	28	186	78	0	292	61	3	24	0	88	132	196	21	0	349	751
08:15 AM	23	1	8	0	32	38	185	111	0	334	21	1	17	0	39	144	160	19	0	323	728
08:30 AM	14	1	14	0	29	34	186	109	0	329	14	2	17	0	33	169	153	26	0	348	739
Total Volume	53	12	51	0	116	150	719	401	0	1270	155	10	88	0	253	604	697	87	0	1388	3027
% App. Total	45.7	10.3	44	0		11.8	56.6	31.6	0		61.3	4	34.8	0		43.5	50.2	6.3	0		
PHF	.576	.333	.850	.000	.879	.750	.966	.903	.000	.951	.635	.625	.733	.000	.680	.893	.889	.837	.000	.943	.935
Cars	52	12	50	0	114	150	710	396	0	1256	147	9	84	0	240	599	681	85	0	1365	2975
% Cars	98.1	100	98.0	0	98.3	100	98.7	98.8	0	98.9	94.8	90.0	95.5	0	94.9	99.2	97.7	97.7	0	98.3	98.3
Heavy Vehicles	1	0	1	0	2	0	9	5	0	14	8	1	4	0	13	5	16	2	0	23	52
% Heavy Vehicles	1.9	0	2.0	0	1.7	0	1.3	1.2	0	1.1	5.2	10.0	4.5	0	5.1	0.8	2.3	2.3	0	1.7	1.7





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City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 AA
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
04:00 PM	21	2	27	0	12	144	48	0	86	2	147	0	42	107	18	0	656
04:15 PM	23	2	19	0	15	156	47	0	95	4	125	0	32	126	14	0	658
04:30 PM	16	0	15	0	17	156	31	0	72	4	138	0	28	139	15	0	631
04:45 PM	20	1	26	0	19	150	56	0	69	1	129	0	33	115	14	0	633
Total	80	5	87	0	63	606	182	0	322	11	539	0	135	487	61	0	2578
05:00 PM	26	1	31	0	14	138	38	0	130	4	180	0	29	152	7	0	750
05:15 PM	16	1	19	0	7	137	52	0	101	1	152	0	45	153	9	0	693
05:30 PM	13	1	19	0	16	150	66	0	86	2	124	0	47	157	7	0	688
05:45 PM	17	0	24	0	20	141	52	0	119	0	145	0	49	151	7	0	725
Total	72	3	93	0	57	566	208	0	436	7	601	0	170	613	30	0	2856
Grand Total	152	8	180	0	120	1172	390	0	758	18	1140	0	305	1100	91	0	5434
Apprch %	44.7	2.4	52.9	0	7.1	69.7	23.2	0	39.6	0.9	59.5	0	20.4	73.5	6.1	0	
Total %	2.8	0.1	3.3	0	2.2	21.6	7.2	0	13.9	0.3	21	0	5.6	20.2	1.7	0	
Cars	148	8	180	0	119	1145	387	0	753	17	1138	0	301	1095	88	0	5379
% Cars	97.4	100	100	0	99.2	97.7	99.2	0	99.3	94.4	99.8	0	98.7	99.5	96.7	0	99
Heavy Vehicles	4	0	0	0	1	27	3	0	5	1	2	0	4	5	3	0	55
% Heavy Vehicles	2.6	0	0	0	0.8	2.3	0.8	0	0.7	5.6	0.2	0	1.3	0.5	3.3	0	1

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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	26	1	31	0	58	14	138	38	0	190	130	4	180	0	314	29	152	7	0	188	750
05:15 PM	16	1	19	0	36	7	137	52	0	196	101	1	152	0	254	45	153	9	0	207	693
05:30 PM	13	1	19	0	33	16	150	66	0	232	86	2	124	0	212	47	157	7	0	211	688
05:45 PM	17	0	24	0	41	20	141	52	0	213	119	0	145	0	264	49	151	7	0	207	725
Total Volume	72	3	93	0	168	57	566	208	0	831	436	7	601	0	1044	170	613	30	0	813	2856
% App. Total	42.9	1.8	55.4	0		6.9	68.1	25	0		41.8	0.7	57.6	0		20.9	75.4	3.7	0		
PHF	.692	.750	.750	.000	.724	.713	.943	.788	.000	.895	.838	.438	.835	.000	.831	.867	.976	.833	.000	.963	.952
Cars	70	3	93	0	166	57	554	208	0	819	436	6	600	0	1042	170	611	28	0	809	2836
% Cars	97.2	100	100	0	98.8	100	97.9	100	0	98.6	100	85.7	99.8	0	99.8	100	99.7	93.3	0	99.5	99.3
Heavy Vehicles	2	0	0	0	2	0	12	0	0	12	0	1	1	0	2	0	2	2	0	4	20
% Heavy Vehicles	2.8	0	0	0	1.2	0	2.1	0	0	1.4	0	14.3	0.2	0	0.2	0	0.3	6.7	0	0.5	0.7



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Page No : 1

Groups Printed- Cars

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
04:00 PM	21	2	27	0	12	140	46	0	83	2	147	0	42	107	17	0	646
04:15 PM	22	2	19	0	14	150	47	0	94	4	124	0	30	125	14	0	645
04:30 PM	15	0	15	0	17	154	30	0	72	4	138	0	28	137	15	0	625
04:45 PM	20	1	26	0	19	147	56	0	68	1	129	0	31	115	14	0	627
Total	78	5	87	0	62	591	179	0	317	11	538	0	131	484	60	0	2543
05:00 PM	26	1	31	0	14	134	38	0	130	4	179	0	29	152	7	0	745
05:15 PM	16	1	19	0	7	134	52	0	101	1	152	0	45	153	9	0	690
05:30 PM	13	1	19	0	16	149	66	0	86	1	124	0	47	156	7	0	685
05:45 PM	15	0	24	0	20	137	52	0	119	0	145	0	49	150	5	0	716
Total	70	3	93	0	57	554	208	0	436	6	600	0	170	611	28	0	2836
Grand Total	148	8	180	0	119	1145	387	0	753	17	1138	0	301	1095	88	0	5379
Apprch %	44	2.4	53.6	0	7.2	69.4	23.4	0	39.5	0.9	59.6	0	20.3	73.8	5.9	0	
Total %	2.8	0.1	3.3	0	2.2	21.3	7.2	0	14	0.3	21.2	0	5.6	20.4	1.6	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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	26	1	31	0	58	14	134	38	0	186	130	4	179	0	313	29	152	7	0	188	745
05:15 PM	16	1	19	0	36	7	134	52	0	193	101	1	152	0	254	45	153	9	0	207	690
05:30 PM	13	1	19	0	33	16	149	66	0	231	86	1	124	0	211	47	156	7	0	210	685
05:45 PM	15	0	24	0	39	20	137	52	0	209	119	0	145	0	264	49	150	5	0	204	716
Total Volume	70	3	93	0	166	57	554	208	0	819	436	6	600	0	1042	170	611	28	0	809	2836
% App. Total	42.2	1.8	56	0		7	67.6	25.4	0		41.8	0.6	57.6	0		21	75.5	3.5	0		
PHF	.673	.750	.750	.000	.716	.713	.930	.788	.000	.886	.838	.375	.838	.000	.832	.867	.979	.778	.000	.963	.952



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N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 AA
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	Right	Thru	Left	U-Turn	
04:00 PM	0	0	0	0	0	4	2	0	3	0	0	0	0	0	1	0	10
04:15 PM	1	0	0	0	1	6	0	0	1	0	1	0	2	1	0	0	13
04:30 PM	1	0	0	0	0	2	1	0	0	0	0	0	0	2	0	0	6
04:45 PM	0	0	0	0	0	3	0	0	1	0	0	0	2	0	0	0	6
Total	2	0	0	0	1	15	3	0	5	0	1	0	4	3	1	0	35
05:00 PM	0	0	0	0	0	4	0	0	0	0	1	0	0	0	0	0	5
05:15 PM	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	3
05:30 PM	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	3
05:45 PM	2	0	0	0	0	4	0	0	0	0	0	0	0	1	2	0	9
Total	2	0	0	0	0	12	0	0	0	1	1	0	0	2	2	0	20
Grand Total	4	0	0	0	1	27	3	0	5	1	2	0	4	5	3	0	55
Apprch %	100	0	0	0	3.2	87.1	9.7	0	62.5	12.5	25	0	33.3	41.7	25	0	
Total %	7.3	0	0	0	1.8	49.1	5.5	0	9.1	1.8	3.6	0	7.3	9.1	5.5	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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	0	0	0	0	0	0	4	2	0	6	3	0	0	0	3	0	0	1	0	1	10
04:15 PM	1	0	0	0	1	1	6	0	0	7	1	0	1	0	2	2	1	0	0	3	13
04:30 PM	1	0	0	0	1	0	2	1	0	3	0	0	0	0	0	0	2	0	0	2	6
04:45 PM	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	2	0	0	0	2	6
Total Volume	2	0	0	0	2	1	15	3	0	19	5	0	1	0	6	4	3	1	0	8	35
% App. Total	100	0	0	0		5.3	78.9	15.8	0		83.3	0	16.7	0		50	37.5	12.5	0		
PHF	.500	.000	.000	.000	.500	.250	.625	.375	.000	.679	.417	.000	.250	.000	.500	.500	.375	.250	.000	.667	.673



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N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 AA
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Peds and Bikes

Start Time	Nahanton Park From North				Nahanton Street From East				Wells Avenue From South				Nahanton Street From West				Int. Total
	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	Right	Thru	Left	Peds	
04:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3
04:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
04:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	3	0	0	4
Total	0	0	0	0	0	2	0	0	0	0	0	0	0	8	0	0	10
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2
05:15 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
05:45 PM	0	0	0	0	0	2	0	0	0	0	0	0	0	2	0	0	4
Total	0	0	0	0	0	4	0	0	0	0	0	0	0	6	1	0	11
Grand Total	0	0	0	0	0	6	0	0	0	0	0	0	0	14	1	0	21
Apprch %	0	0	0	0	0	100	0	0	0	0	0	0	0	93.3	6.7	0	
Total %	0	0	0	0	0	28.6	0	0	0	0	0	0	0	66.7	4.8	0	

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 04:45 PM																					
04:45 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	4
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
05:15 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3	3
Total Volume	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7	1	0	8	11
% App. Total	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	87.5	12.5	0	0	
PHF	.000	.000	.000	.000	.000	.000	.375	.000	.000	.375	.000	.000	.000	.000	.000	.000	.583	.250	.000	.667	.688



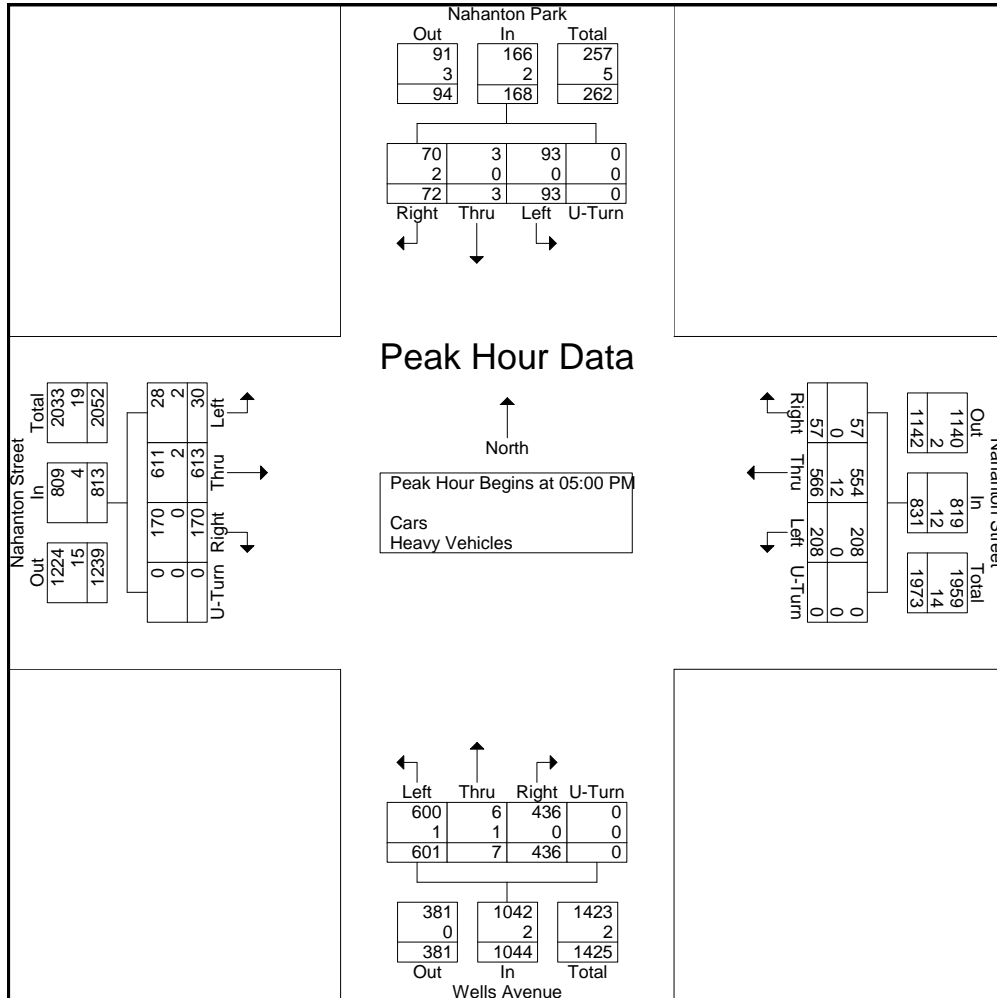
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N/S: Nahanton Park/ Wells Avenue
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 AA
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Start Time	Nahanton Park From North					Nahanton Street From East					Wells Avenue From South					Nahanton Street From West					Int. Total
	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	U-Turn	App. Total	Right	Thru	Left	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	26	1	31	0	58	14	138	38	0	190	130	4	180	0	314	29	152	7	0	188	750
05:15 PM	16	1	19	0	36	7	137	52	0	196	101	1	152	0	254	45	153	9	0	207	693
05:30 PM	13	1	19	0	33	16	150	66	0	232	86	2	124	0	212	47	157	7	0	211	688
05:45 PM	17	0	24	0	41	20	141	52	0	213	119	0	145	0	264	49	151	7	0	207	725
Total Volume	72	3	93	0	168	57	566	208	0	831	436	7	601	0	1044	170	613	30	0	813	2856
% App. Total	42.9	1.8	55.4	0		6.9	68.1	25	0		41.8	0.7	57.6	0		20.9	75.4	3.7	0		
PHF	.692	.750	.750	.000	.724	.713	.943	.788	.000	.895	.838	.438	.835	.000	.831	.867	.976	.833	.000	.963	.952
Cars	70	3	93	0	166	57	554	208	0	819	436	6	600	0	1042	170	611	28	0	809	2836
% Cars	97.2	100	100	0	98.8	100	97.9	100	0	98.6	100	85.7	99.8	0	99.8	100	99.7	93.3	0	99.5	99.3
Heavy Vehicles	2	0	0	0	2	0	12	0	0	12	0	1	1	0	2	0	2	2	0	4	20
% Heavy Vehicles	2.8	0	0	0	1.2	0	2.1	0	0	1.4	0	14.3	0.2	0	0.2	0	0.3	6.7	0	0.5	0.7





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N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 B
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	29	4	0	8	95	0	155	33	0	324
07:15 AM	29	5	0	13	159	0	173	73	0	452
07:30 AM	60	5	0	24	208	0	185	61	0	543
07:45 AM	76	7	0	18	243	0	189	78	0	611
Total	194	21	0	63	705	0	702	245	0	1930
08:00 AM	71	5	0	28	217	0	175	79	0	575
08:15 AM	106	6	0	19	224	0	142	52	0	549
08:30 AM	86	10	0	25	207	0	90	57	0	475
08:45 AM	95	5	0	33	120	0	53	65	0	371
Total	358	26	0	105	768	0	460	253	0	1970
Grand Total	552	47	0	168	1473	0	1162	498	0	3900
Apprch %	92.2	7.8	0	10.2	89.8	0	70	30	0	
Total %	14.2	1.2	0	4.3	37.8	0	29.8	12.8	0	
Cars	546	43	0	162	1453	0	1131	489	0	3824
% Cars	98.9	91.5	0	96.4	98.6	0	97.3	98.2	0	98.1
Heavy Vehicles	6	4	0	6	20	0	31	9	0	76
% Heavy Vehicles	1.1	8.5	0	3.6	1.4	0	2.7	1.8	0	1.9

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:30 AM													
07:30 AM	60	5	0	65	24	208	0	232	185	61	0	246	543
07:45 AM	76	7	0	83	18	243	0	261	189	78	0	267	611
08:00 AM	71	5	0	76	28	217	0	245	175	79	0	254	575
08:15 AM	106	6	0	112	19	224	0	243	142	52	0	194	549
Total Volume	313	23	0	336	89	892	0	981	691	270	0	961	2278
% App. Total	93.2	6.8	0		9.1	90.9	0		71.9	28.1	0		
PHF	.738	.821	.000	.750	.795	.918	.000	.940	.914	.854	.000	.900	.932
Cars	310	21	0	331	86	882	0	968	671	267	0	938	2237
% Cars	99.0	91.3	0	98.5	96.6	98.9	0	98.7	97.1	98.9	0	97.6	98.2
Heavy Vehicles	3	2	0	5	3	10	0	13	20	3	0	23	41
% Heavy Vehicles	1.0	8.7	0	1.5	3.4	1.1	0	1.3	2.9	1.1	0	2.4	1.8



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File Name : 133590 B
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Cars

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	29	4	0	8	90	0	153	33	0	317
07:15 AM	27	5	0	13	158	0	169	71	0	443
07:30 AM	59	5	0	22	207	0	179	60	0	532
07:45 AM	76	7	0	18	240	0	185	78	0	604
Total	191	21	0	61	695	0	686	242	0	1896
08:00 AM	70	4	0	27	216	0	170	78	0	565
08:15 AM	105	5	0	19	219	0	137	51	0	536
08:30 AM	85	8	0	25	203	0	86	57	0	464
08:45 AM	95	5	0	30	120	0	52	61	0	363
Total	355	22	0	101	758	0	445	247	0	1928
Grand Total	546	43	0	162	1453	0	1131	489	0	3824
Apprch %	92.7	7.3	0	10	90	0	69.8	30.2	0	
Total %	14.3	1.1	0	4.2	38	0	29.6	12.8	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:30 AM													
07:30 AM	59	5	0	64	22	207	0	229	179	60	0	239	532
07:45 AM	76	7	0	83	18	240	0	258	185	78	0	263	604
08:00 AM	70	4	0	74	27	216	0	243	170	78	0	248	565
08:15 AM	105	5	0	110	19	219	0	238	137	51	0	188	536
Total Volume	310	21	0	331	86	882	0	968	671	267	0	938	2237
% App. Total	93.7	6.3	0		8.9	91.1	0		71.5	28.5	0		
PHF	.738	.750	.000	.752	.796	.919	.000	.938	.907	.856	.000	.892	.926



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File Name : 133590 B
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

Groups Printed- Heavy Vehicles

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	0	0	0	0	5	0	2	0	0	7
07:15 AM	2	0	0	0	1	0	4	2	0	9
07:30 AM	1	0	0	2	1	0	6	1	0	11
07:45 AM	0	0	0	0	3	0	4	0	0	7
Total	3	0	0	2	10	0	16	3	0	34
08:00 AM	1	1	0	1	1	0	5	1	0	10
08:15 AM	1	1	0	0	5	0	5	1	0	13
08:30 AM	1	2	0	0	4	0	4	0	0	11
08:45 AM	0	0	0	3	0	0	1	4	0	8
Total	3	4	0	4	10	0	15	6	0	42
Grand Total	6	4	0	6	20	0	31	9	0	76
Apprch %	60	40	0	23.1	76.9	0	77.5	22.5	0	
Total %	7.9	5.3	0	7.9	26.3	0	40.8	11.8	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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	1	1	0	2	1	1	0	2	5	1	0	6	10
08:15 AM	1	1	0	2	0	5	0	5	5	1	0	6	13
08:30 AM	1	2	0	3	0	4	0	4	4	0	0	4	11
08:45 AM	0	0	0	0	3	0	0	3	1	4	0	5	8
Total Volume	3	4	0	7	4	10	0	14	15	6	0	21	42
% App. Total	42.9	57.1	0		28.6	71.4	0		71.4	28.6	0		
PHF	.750	.500	.000	.583	.333	.500	.000	.700	.750	.375	.000	.875	.808



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Page No : 1

N: Winchester Street
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City, State: Newton, MA
Client: McMahan/ E. Pacileo

Groups Printed- Peds and Bikes

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	Peds	Right	Thru	Peds	Thru	Left	Peds	
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	1	0	1
07:30 AM	1	1	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	2	0	0	2
Total	1	1	0	0	0	0	2	1	0	5
08:00 AM	1	1	0	0	0	0	0	1	0	3
08:15 AM	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0
Total	1	1	0	0	0	0	0	1	0	3
Grand Total	2	2	0	0	0	0	2	2	0	8
Apprch %	50	50	0	0	0	0	50	50	0	
Total %	25	25	0	0	0	0	25	25	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	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	0	0	0	0	0	0	0	0	0	1	0	1	1
07:30 AM	1	1	0	2	0	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	2	0	0	2	2
08:00 AM	1	1	0	2	0	0	0	0	0	1	0	1	3
Total Volume	2	2	0	4	0	0	0	0	2	2	0	4	8
% App. Total	50	50	0		0	0	0		50	50	0		
PHF	.500	.500	.000	.500	.000	.000	.000	.000	.250	.500	.000	.500	.667



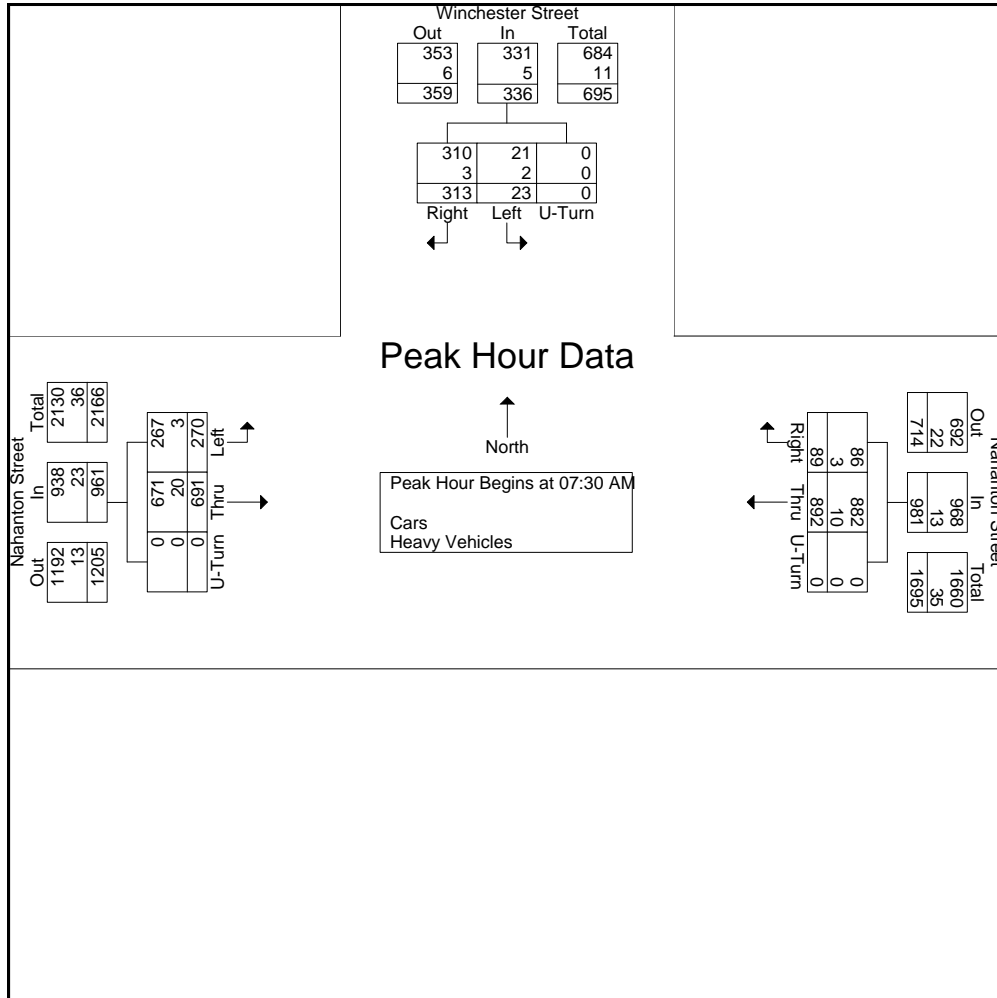
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Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	U-Turn	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:30 AM													
07:30 AM	60	5	0	65	24	208	0	232	185	61	0	246	543
07:45 AM	76	7	0	83	18	243	0	261	189	78	0	267	611
08:00 AM	71	5	0	76	28	217	0	245	175	79	0	254	575
08:15 AM	106	6	0	112	19	224	0	243	142	52	0	194	549
Total Volume	313	23	0	336	89	892	0	981	691	270	0	961	2278
% App. Total	93.2	6.8	0		9.1	90.9	0		71.9	28.1	0		
PHF	.738	.821	.000	.750	.795	.918	.000	.940	.914	.854	.000	.900	.932
Cars	310	21	0	331	86	882	0	968	671	267	0	938	2237
% Cars	99.0	91.3	0	98.5	96.6	98.9	0	98.7	97.1	98.9	0	97.6	98.2
Heavy Vehicles	3	2	0	5	3	10	0	13	20	3	0	23	41
% Heavy Vehicles	1.0	8.7	0	1.5	3.4	1.1	0	1.3	2.9	1.1	0	2.4	1.8





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N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 BB
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	60	6	0	6	168	0	141	74	0	455
04:15 PM	85	12	0	12	109	0	192	120	0	530
04:30 PM	107	12	0	12	167	0	348	93	0	739
04:45 PM	159	9	0	12	194	0	266	119	0	759
Total	411	39	0	42	638	0	947	406	0	2483
05:00 PM	77	5	0	6	108	0	210	100	0	506
05:15 PM	81	4	0	15	117	0	175	93	0	485
05:30 PM	87	13	0	8	124	0	162	86	0	480
05:45 PM	76	8	0	10	142	0	186	100	0	522
Total	321	30	0	39	491	0	733	379	0	1993
Grand Total	732	69	0	81	1129	0	1680	785	0	4476
Apprch %	91.4	8.6	0	6.7	93.3	0	68.2	31.8	0	
Total %	16.4	1.5	0	1.8	25.2	0	37.5	17.5	0	
Cars	718	67	0	78	1113	0	1676	775	0	4427
% Cars	98.1	97.1	0	96.3	98.6	0	99.8	98.7	0	98.9
Heavy Vehicles	14	2	0	3	16	0	4	10	0	49
% Heavy Vehicles	1.9	2.9	0	3.7	1.4	0	0.2	1.3	0	1.1

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 04:15 PM													
04:15 PM	85	12	0	97	12	109	0	121	192	120	0	312	530
04:30 PM	107	12	0	119	12	167	0	179	348	93	0	441	739
04:45 PM	159	9	0	168	12	194	0	206	266	119	0	385	759
05:00 PM	77	5	0	82	6	108	0	114	210	100	0	310	506
Total Volume	428	38	0	466	42	578	0	620	1016	432	0	1448	2534
% App. Total	91.8	8.2	0		6.8	93.2	0		70.2	29.8	0		
PHF	.673	.792	.000	.693	.875	.745	.000	.752	.730	.900	.000	.821	.835
Cars	419	38	0	457	40	570	0	610	1016	426	0	1442	2509
% Cars	97.9	100	0	98.1	95.2	98.6	0	98.4	100	98.6	0	99.6	99.0
Heavy Vehicles	9	0	0	9	2	8	0	10	0	6	0	6	25
% Heavy Vehicles	2.1	0	0	1.9	4.8	1.4	0	1.6	0	1.4	0	0.4	1.0



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N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 BB
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	58	6	0	6	163	0	138	74	0	445
04:15 PM	83	12	0	11	104	0	192	117	0	519
04:30 PM	105	12	0	12	166	0	348	91	0	734
04:45 PM	159	9	0	11	193	0	266	118	0	756
Total	405	39	0	40	626	0	944	400	0	2454
05:00 PM	72	5	0	6	107	0	210	100	0	500
05:15 PM	81	3	0	14	117	0	174	92	0	481
05:30 PM	86	13	0	8	122	0	162	84	0	475
05:45 PM	74	7	0	10	141	0	186	99	0	517
Total	313	28	0	38	487	0	732	375	0	1973
Grand Total	718	67	0	78	1113	0	1676	775	0	4427
Apprch %	91.5	8.5	0	6.5	93.5	0	68.4	31.6	0	
Total %	16.2	1.5	0	1.8	25.1	0	37.9	17.5	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 04:15 PM													
04:15 PM	83	12	0	95	11	104	0	115	192	117	0	309	519
04:30 PM	105	12	0	117	12	166	0	178	348	91	0	439	734
04:45 PM	159	9	0	168	11	193	0	204	266	118	0	384	756
05:00 PM	72	5	0	77	6	107	0	113	210	100	0	310	500
Total Volume	419	38	0	457	40	570	0	610	1016	426	0	1442	2509
% App. Total	91.7	8.3	0		6.6	93.4	0		70.5	29.5	0		
PHF	.659	.792	.000	.680	.833	.738	.000	.748	.730	.903	.000	.821	.830



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Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Heavy Vehicles

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	2	0	0	0	5	0	3	0	0	10
04:15 PM	2	0	0	1	5	0	0	3	0	11
04:30 PM	2	0	0	0	1	0	0	2	0	5
04:45 PM	0	0	0	1	1	0	0	1	0	3
Total	6	0	0	2	12	0	3	6	0	29
05:00 PM	5	0	0	0	1	0	0	0	0	6
05:15 PM	0	1	0	1	0	0	1	1	0	4
05:30 PM	1	0	0	0	2	0	0	2	0	5
05:45 PM	2	1	0	0	1	0	0	1	0	5
Total	8	2	0	1	4	0	1	4	0	20
Grand Total	14	2	0	3	16	0	4	10	0	49
Apprch %	87.5	12.5	0	15.8	84.2	0	28.6	71.4	0	
Total %	28.6	4.1	0	6.1	32.7	0	8.2	20.4	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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	2	0	0	2	0	5	0	5	3	0	0	3	10
04:15 PM	2	0	0	2	1	5	0	6	0	3	0	3	11
04:30 PM	2	0	0	2	0	1	0	1	0	2	0	2	5
04:45 PM	0	0	0	0	1	1	0	2	0	1	0	1	3
Total Volume	6	0	0	6	2	12	0	14	3	6	0	9	29
% App. Total	100	0	0		14.3	85.7	0		33.3	66.7	0		
PHF	.750	.000	.000	.750	.500	.600	.000	.583	.250	.500	.000	.750	.659



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File Name : 133590 BB
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N: Winchester Street
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City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Peds and Bikes

Start Time	Winchester Street From North			Nahanton Street From East			Nahanton Street From West			Int. Total
	Right	Left	Peds	Right	Thru	Peds	Thru	Left	Peds	
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	1	0	1
04:45 PM	0	0	0	5	0	0	0	5	0	10
Total	0	0	0	5	0	0	0	6	0	11
05:00 PM	0	0	0	0	0	0	1	0	0	1
05:15 PM	0	0	0	0	1	0	1	1	0	3
05:30 PM	0	0	0	0	0	0	1	1	0	2
05:45 PM	1	0	0	0	2	0	2	0	0	5
Total	1	0	0	0	3	0	5	2	0	11
Grand Total	1	0	0	5	3	0	5	8	0	22
Apprch %	100	0	0	62.5	37.5	0	38.5	61.5	0	
Total %	4.5	0	0	22.7	13.6	0	22.7	36.4	0	

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 04:45 PM													
04:45 PM	0	0	0	0	5	0	0	5	0	5	0	5	10
05:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
05:15 PM	0	0	0	0	0	1	0	1	1	1	0	2	3
05:30 PM	0	0	0	0	0	0	0	0	1	1	0	2	2
Total Volume	0	0	0	0	5	1	0	6	3	7	0	10	16
% App. Total	0	0	0		83.3	16.7	0		30	70	0		
PHF	.000	.000	.000	.000	.250	.250	.000	.300	.750	.350	.000	.500	.400



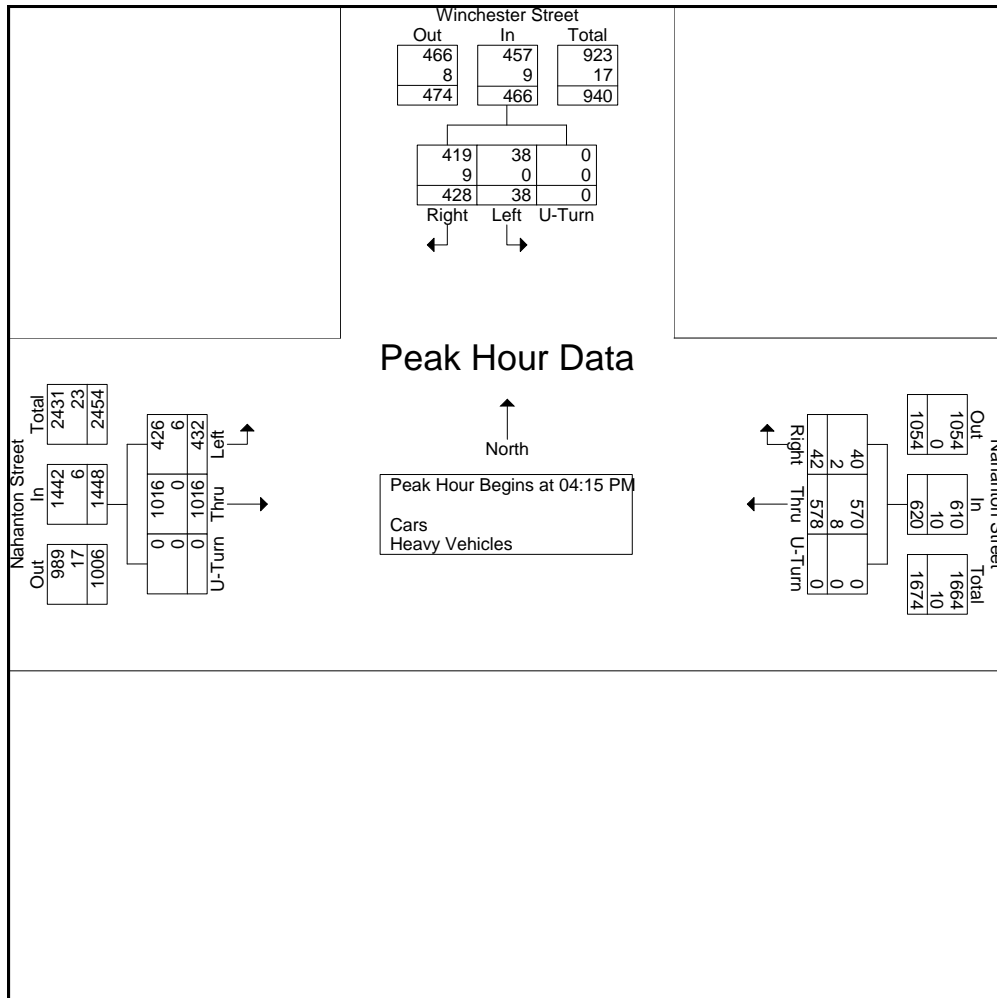
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File Name : 133590 BB
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Page No : 1

N: Winchester Street
E/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

Start Time	Winchester Street From North				Nahanton Street From East				Nahanton Street From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 04:15 PM													
04:15 PM	85	12	0	97	12	109	0	121	192	120	0	312	530
04:30 PM	107	12	0	119	12	167	0	179	348	93	0	441	739
04:45 PM	159	9	0	168	12	194	0	206	266	119	0	385	759
05:00 PM	77	5	0	82	6	108	0	114	210	100	0	310	506
Total Volume	428	38	0	466	42	578	0	620	1016	432	0	1448	2534
% App. Total	91.8	8.2	0		6.8	93.2	0		70.2	29.8	0		
PHF	.673	.792	.000	.693	.875	.745	.000	.752	.730	.900	.000	.821	.835
Cars	419	38	0	457	40	570	0	610	1016	426	0	1442	2509
% Cars	97.9	100	0	98.1	95.2	98.6	0	98.4	100	98.6	0	99.6	99.0
Heavy Vehicles	9	0	0	9	2	8	0	10	0	6	0	6	25
% Heavy Vehicles	2.1	0	0	1.9	4.8	1.4	0	1.6	0	1.4	0	0.4	1.0





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File Name : 133590 C
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N/S: Dedham Street
NW/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Cars - Heavy Vehicles

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
07:00 AM	5	0	52	0	138	0	105	0	139	0	0	0	0	0	11	0	450
07:15 AM	16	0	84	0	142	0	155	0	181	0	0	0	0	0	11	0	589
07:30 AM	29	0	108	0	125	0	197	0	169	0	0	0	0	0	18	0	646
07:45 AM	28	0	107	0	121	0	220	0	165	0	0	0	0	0	11	0	652
Total	78	0	351	0	526	0	677	0	654	0	0	0	0	0	51	0	2337
08:00 AM	28	0	90	0	132	0	209	0	173	0	0	0	0	0	13	0	645
08:15 AM	28	0	88	0	115	0	224	0	127	0	0	0	0	0	21	0	603
08:30 AM	41	0	64	0	140	0	230	0	124	0	0	0	0	0	5	0	604
08:45 AM	33	0	94	0	112	0	220	0	123	0	0	0	0	0	13	0	595
Total	130	0	336	0	499	0	883	0	547	0	0	0	0	0	52	0	2447
Grand Total	208	0	687	0	1025	0	1560	0	1201	0	0	0	0	0	103	0	4784
Apprch %	23.2	0	76.8	0	39.7	0	60.3	0	100	0	0	0	0	0	100	0	
Total %	4.3	0	14.4	0	21.4	0	32.6	0	25.1	0	0	0	0	0	2.2	0	
Cars	204	0	616	0	986	0	1543	0	1167	0	0	0	0	0	101	0	4617
% Cars	98.1	0	89.7	0	96.2	0	98.9	0	97.2	0	0	0	0	0	98.1	0	96.5
Heavy Vehicles	4	0	71	0	39	0	17	0	34	0	0	0	0	0	2	0	167
% Heavy Vehicles	1.9	0	10.3	0	3.8	0	1.1	0	2.8	0	0	0	0	0	1.9	0	3.5

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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 07:30 AM																					
07:30 AM	29	0	108	0	137	125	0	197	0	322	169	0	0	0	169	0	0	18	0	18	646
07:45 AM	28	0	107	0	135	121	0	220	0	341	165	0	0	0	165	0	0	11	0	11	652
08:00 AM	28	0	90	0	118	132	0	209	0	341	173	0	0	0	173	0	0	13	0	13	645
08:15 AM	28	0	88	0	116	115	0	224	0	339	127	0	0	0	127	0	0	21	0	21	603
Total Volume	113	0	393	0	506	493	0	850	0	1343	634	0	0	0	634	0	0	63	0	63	2546
% App. Total	22.3	0	77.7	0		36.7	0	63.3	0		100	0	0	0		0	0	100	0		
PHF	.974	.000	.910	.000	.923	.934	.000	.949	.000	.985	.916	.000	.000	.000	.916	.000	.000	.750	.000	.750	.976
Cars	110	0	353	0	463	478	0	843	0	1321	615	0	0	0	615	0	0	61	0	61	2460
% Cars	97.3	0	89.8	0	91.5	97.0	0	99.2	0	98.4	97.0	0	0	0	97.0	0	0	96.8	0	96.8	96.6
Heavy Vehicles	3	0	40	0	43	15	0	7	0	22	19	0	0	0	19	0	0	2	0	2	86
% Heavy Vehicles	2.7	0	10.2	0	8.5	3.0	0	0.8	0	1.6	3.0	0	0	0	3.0	0	0	3.2	0	3.2	3.4



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N/S: Dedham Street
NW/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 C
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
07:00 AM	5	0	47	0	134	0	100	0	136	0	0	0	0	0	11	0	433
07:15 AM	15	0	79	0	137	0	154	0	179	0	0	0	0	0	11	0	575
07:30 AM	28	0	103	0	120	0	195	0	163	0	0	0	0	0	18	0	627
07:45 AM	27	0	102	0	119	0	219	0	158	0	0	0	0	0	11	0	636
Total	75	0	331	0	510	0	668	0	636	0	0	0	0	0	51	0	2271
08:00 AM	27	0	80	0	128	0	208	0	170	0	0	0	0	0	11	0	624
08:15 AM	28	0	68	0	111	0	221	0	124	0	0	0	0	0	21	0	573
08:30 AM	41	0	51	0	131	0	228	0	118	0	0	0	0	0	5	0	574
08:45 AM	33	0	86	0	106	0	218	0	119	0	0	0	0	0	13	0	575
Total	129	0	285	0	476	0	875	0	531	0	0	0	0	0	50	0	2346
Grand Total	204	0	616	0	986	0	1543	0	1167	0	0	0	0	0	101	0	4617
Apprch %	24.9	0	75.1	0	39	0	61	0	100	0	0	0	0	0	100	0	
Total %	4.4	0	13.3	0	21.4	0	33.4	0	25.3	0	0	0	0	0	2.2	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	15	0	79	0	94	137	0	154	0	291	179	0	0	0	179	0	0	11	0	11	575
07:30 AM	28	0	103	0	131	120	0	195	0	315	163	0	0	0	163	0	0	18	0	18	627
07:45 AM	27	0	102	0	129	119	0	219	0	338	158	0	0	0	158	0	0	11	0	11	636
08:00 AM	27	0	80	0	107	128	0	208	0	336	170	0	0	0	170	0	0	11	0	11	624
Total Volume	97	0	364	0	461	504	0	776	0	1280	670	0	0	0	670	0	0	51	0	51	2462
% App. Total	21	0	79	0		39.4	0	60.6	0		100	0	0	0		0	0	100	0		
PHF	.866	.000	.883	.000	.880	.920	.000	.886	.000	.947	.936	.000	.000	.000	.936	.000	.000	.708	.000	.708	.968



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N/S: Dedham Street
NW/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 C
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Heavy Vehicles

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
07:00 AM	0	0	5	0	4	0	5	0	3	0	0	0	0	0	0	0	17
07:15 AM	1	0	5	0	5	0	1	0	2	0	0	0	0	0	0	0	14
07:30 AM	1	0	5	0	5	0	2	0	6	0	0	0	0	0	0	0	19
07:45 AM	1	0	5	0	2	0	1	0	7	0	0	0	0	0	0	0	16
Total	3	0	20	0	16	0	9	0	18	0	0	0	0	0	0	0	66
08:00 AM	1	0	10	0	4	0	1	0	3	0	0	0	0	0	2	0	21
08:15 AM	0	0	20	0	4	0	3	0	3	0	0	0	0	0	0	0	30
08:30 AM	0	0	13	0	9	0	2	0	6	0	0	0	0	0	0	0	30
08:45 AM	0	0	8	0	6	0	2	0	4	0	0	0	0	0	0	0	20
Total	1	0	51	0	23	0	8	0	16	0	0	0	0	0	2	0	101
Grand Total	4	0	71	0	39	0	17	0	34	0	0	0	0	0	2	0	167
Apprch %	5.3	0	94.7	0	69.6	0	30.4	0	100	0	0	0	0	0	100	0	
Total %	2.4	0	42.5	0	23.4	0	10.2	0	20.4	0	0	0	0	0	1.2	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	1	0	10	0	11	4	0	1	0	5	3	0	0	0	3	0	0	2	0	2	21
08:15 AM	0	0	20	0	20	4	0	3	0	7	3	0	0	0	3	0	0	0	0	0	30
08:30 AM	0	0	13	0	13	9	0	2	0	11	6	0	0	0	6	0	0	0	0	0	30
08:45 AM	0	0	8	0	8	6	0	2	0	8	4	0	0	0	4	0	0	0	0	0	20
Total Volume	1	0	51	0	52	23	0	8	0	31	16	0	0	0	16	0	0	2	0	2	101
% App. Total	1.9	0	98.1	0		74.2	0	25.8	0		100	0	0	0		0	0	100	0		
PHF	.250	.000	.638	.000	.650	.639	.000	.667	.000	.705	.667	.000	.000	.000	.667	.000	.000	.250	.000	.250	.842



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N/S: Dedham Street
NW/W: Nahanton Street
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 C
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Peds and Bikes

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	Peds	Thru	Bear Left	Left	Peds	Right	Left	Hard Left	Peds	Hard Right	Bear Right	Hard Left	Peds	
07:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5
Total	0	0	0	0	0	0	1	0	7	0	0	0	0	0	1	0	9
08:00 AM	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	3
08:15 AM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
08:30 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
08:45 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	3	0	4	0	0	0	0	0	0	0	7
Grand Total	0	0	0	0	0	0	4	0	11	0	0	0	0	0	1	0	16
Apprch %	0	0	0	0	0	0	100	0	100	0	0	0	0	0	100	0	
Total %	0	0	0	0	0	0	25	0	68.8	0	0	0	0	0	6.2	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	Peds	App. Total	Thru	Bear Left	Left	Peds	App. Total	Right	Left	Hard Left	Peds	App. Total	Hard Right	Bear Right	Hard Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:30 AM																					
07:30 AM	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	2
07:45 AM	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5	0	0	0	0	0	5
08:00 AM	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	0	0	0	0	0	3
08:15 AM	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	2
Total Volume	0	0	0	0	0	0	0	1	0	1	11	0	0	0	11	0	0	0	0	0	12
% App. Total	0	0	0	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	0	0
PHF	.000	.000	.000	.000	.000	.000	.000	.250	.000	.250	.550	.000	.000	.000	.550	.000	.000	.000	.000	.000	.600



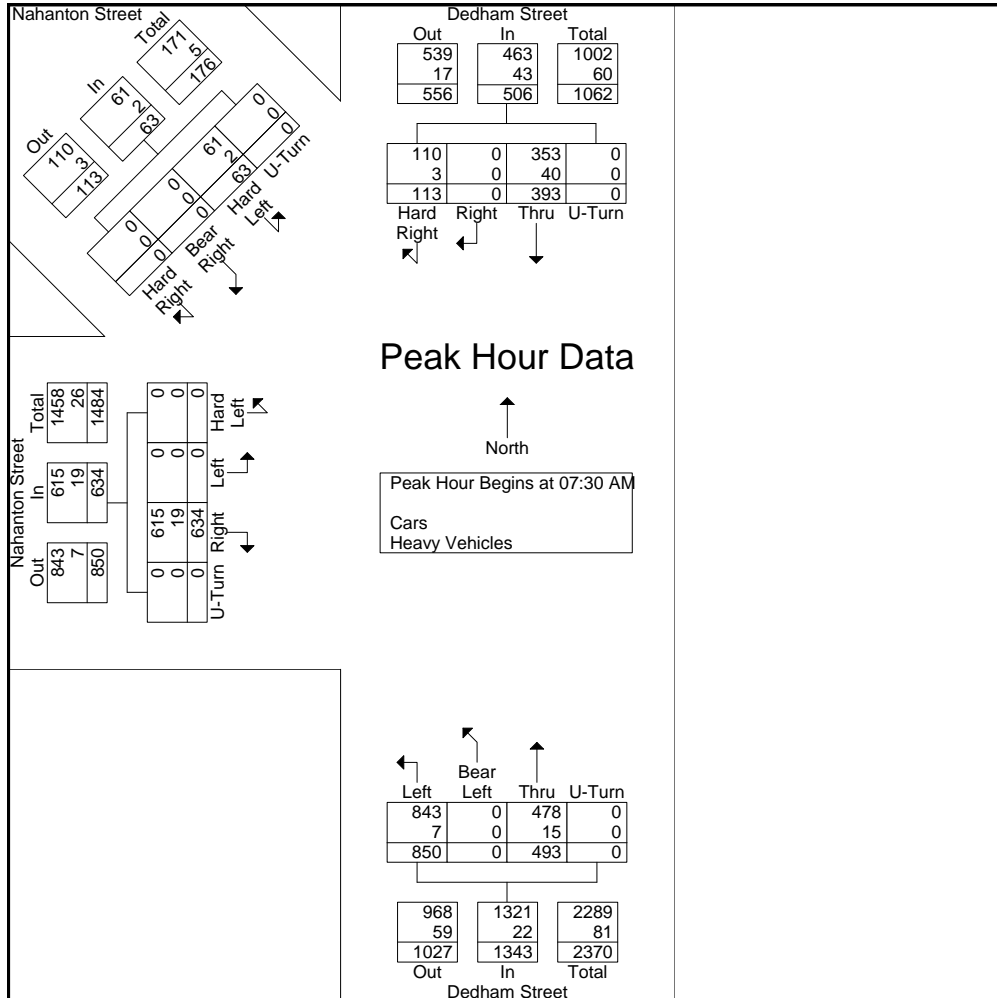
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N/S: Dedham Street
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City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 C
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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 07:30 AM																					
07:30 AM	29	0	108	0	137	125	0	197	0	322	169	0	0	0	169	0	0	18	0	18	646
07:45 AM	28	0	107	0	135	121	0	220	0	341	165	0	0	0	165	0	0	11	0	11	652
08:00 AM	28	0	90	0	118	132	0	209	0	341	173	0	0	0	173	0	0	13	0	13	645
08:15 AM	28	0	88	0	116	115	0	224	0	339	127	0	0	0	127	0	0	21	0	21	603
Total Volume	113	0	393	0	506	493	0	850	0	1343	634	0	0	0	634	0	0	63	0	63	2546
% App. Total	22.3	0	77.7	0		36.7	0	63.3	0		100	0	0	0		0	0	100	0		
PHF	.974	.000	.910	.000	.923	.934	.000	.949	.000	.985	.916	.000	.000	.000	.916	.000	.000	.750	.000	.750	.976
Cars	110	0	353	0	463	478	0	843	0	1321	615	0	0	0	615	0	0	61	0	61	2460
% Cars	97.3	0	89.8	0	91.5	97.0	0	99.2	0	98.4	97.0	0	0	0	97.0	0	0	96.8	0	96.8	96.6
Heavy Vehicles	3	0	40	0	43	15	0	7	0	22	19	0	0	0	19	0	0	2	0	2	86
% Heavy Vehicles	2.7	0	10.2	0	8.5	3.0	0	0.8	0	1.6	3.0	0	0	0	3.0	0	0	3.2	0	3.2	3.4





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N/S: Dedham Street
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City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 CC
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
04:00 PM	29	0	111	0	105	0	165	0	138	0	0	0	0	0	15	0	563
04:15 PM	13	0	134	0	113	0	155	0	144	0	0	0	0	0	19	0	578
04:30 PM	14	0	123	0	100	0	129	0	159	0	0	0	0	0	14	0	539
04:45 PM	23	0	130	0	112	0	152	0	134	0	0	0	0	0	18	0	569
Total	79	0	498	0	430	0	601	0	575	0	0	0	0	0	66	0	2249
05:00 PM	11	0	131	0	119	0	135	0	176	0	0	0	0	0	30	0	602
05:15 PM	9	0	135	0	125	0	119	0	184	0	0	0	0	0	32	0	604
05:30 PM	17	0	137	0	115	0	136	0	163	0	0	0	0	0	26	0	594
05:45 PM	23	0	145	0	124	0	104	0	176	0	0	0	0	0	27	0	599
Total	60	0	548	0	483	0	494	0	699	0	0	0	0	0	115	0	2399
Grand Total	139	0	1046	0	913	0	1095	0	1274	0	0	0	0	0	181	0	4648
Apprch %	11.7	0	88.3	0	45.5	0	54.5	0	100	0	0	0	0	0	100	0	
Total %	3	0	22.5	0	19.6	0	23.6	0	27.4	0	0	0	0	0	3.9	0	
Cars	136	0	1018	0	887	0	1080	0	1268	0	0	0	0	0	180	0	4569
% Cars	97.8	0	97.3	0	97.2	0	98.6	0	99.5	0	0	0	0	0	99.4	0	98.3
Heavy Vehicles	3	0	28	0	26	0	15	0	6	0	0	0	0	0	1	0	79
% Heavy Vehicles	2.2	0	2.7	0	2.8	0	1.4	0	0.5	0	0	0	0	0	0.6	0	1.7

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	11	0	131	0	142	119	0	135	0	254	176	0	0	0	176	0	0	30	0	30	602
05:15 PM	9	0	135	0	144	125	0	119	0	244	184	0	0	0	184	0	0	32	0	32	604
05:30 PM	17	0	137	0	154	115	0	136	0	251	163	0	0	0	163	0	0	26	0	26	594
05:45 PM	23	0	145	0	168	124	0	104	0	228	176	0	0	0	176	0	0	27	0	27	599
Total Volume	60	0	548	0	608	483	0	494	0	977	699	0	0	0	699	0	0	115	0	115	2399
% App. Total	9.9	0	90.1	0		49.4	0	50.6	0		100	0	0	0		0	0	100	0		
PHF	.652	.000	.945	.000	.905	.966	.000	.908	.000	.962	.950	.000	.000	.000	.950	.000	.000	.898	.000	.898	.993
Cars	58	0	537	0	595	471	0	489	0	960	697	0	0	0	697	0	0	115	0	115	2367
% Cars	96.7	0	98.0	0	97.9	97.5	0	99.0	0	98.3	99.7	0	0	0	99.7	0	0	100	0	100	98.7
Heavy Vehicles	2	0	11	0	13	12	0	5	0	17	2	0	0	0	2	0	0	0	0	0	32
% Heavy Vehicles	3.3	0	2.0	0	2.1	2.5	0	1.0	0	1.7	0.3	0	0	0	0.3	0	0	0	0	0	1.3



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City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 CC
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
04:00 PM	28	0	106	0	101	0	159	0	136	0	0	0	0	0	14	0	544
04:15 PM	13	0	132	0	110	0	153	0	143	0	0	0	0	0	19	0	570
04:30 PM	14	0	118	0	96	0	129	0	158	0	0	0	0	0	14	0	529
04:45 PM	23	0	125	0	109	0	150	0	134	0	0	0	0	0	18	0	559
Total	78	0	481	0	416	0	591	0	571	0	0	0	0	0	65	0	2202
05:00 PM	11	0	128	0	116	0	132	0	176	0	0	0	0	0	30	0	593
05:15 PM	8	0	132	0	122	0	119	0	183	0	0	0	0	0	32	0	596
05:30 PM	17	0	134	0	112	0	136	0	163	0	0	0	0	0	26	0	588
05:45 PM	22	0	143	0	121	0	102	0	175	0	0	0	0	0	27	0	590
Total	58	0	537	0	471	0	489	0	697	0	0	0	0	0	115	0	2367
Grand Total	136	0	1018	0	887	0	1080	0	1268	0	0	0	0	0	180	0	4569
Apprch %	11.8	0	88.2	0	45.1	0	54.9	0	100	0	0	0	0	0	100	0	
Total %	3	0	22.3	0	19.4	0	23.6	0	27.8	0	0	0	0	0	3.9	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	11	0	128	0	139	116	0	132	0	248	176	0	0	0	176	0	0	30	0	30	593
05:15 PM	8	0	132	0	140	122	0	119	0	241	183	0	0	0	183	0	0	32	0	32	596
05:30 PM	17	0	134	0	151	112	0	136	0	248	163	0	0	0	163	0	0	26	0	26	588
05:45 PM	22	0	143	0	165	121	0	102	0	223	175	0	0	0	175	0	0	27	0	27	590
Total Volume	58	0	537	0	595	471	0	489	0	960	697	0	0	0	697	0	0	115	0	115	2367
% App. Total	9.7	0	90.3	0		49.1	0	50.9	0		100	0	0	0		0	0	100	0		
PHF	.659	.000	.939	.000	.902	.965	.000	.899	.000	.968	.952	.000	.000	.000	.952	.000	.000	.898	.000	.898	.993



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Groups Printed- Heavy Vehicles

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	U-Turn	Thru	Bear Left	Left	U-Turn	Right	Left	Hard Left	U-Turn	Hard Right	Bear Right	Hard Left	U-Turn	
04:00 PM	1	0	5	0	4	0	6	0	2	0	0	0	0	0	1	0	19
04:15 PM	0	0	2	0	3	0	2	0	1	0	0	0	0	0	0	0	8
04:30 PM	0	0	5	0	4	0	0	0	1	0	0	0	0	0	0	0	10
04:45 PM	0	0	5	0	3	0	2	0	0	0	0	0	0	0	0	0	10
Total	1	0	17	0	14	0	10	0	4	0	0	0	0	0	1	0	47
05:00 PM	0	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	9
05:15 PM	1	0	3	0	3	0	0	0	1	0	0	0	0	0	0	0	8
05:30 PM	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	6
05:45 PM	1	0	2	0	3	0	2	0	1	0	0	0	0	0	0	0	9
Total	2	0	11	0	12	0	5	0	2	0	0	0	0	0	0	0	32
Grand Total	3	0	28	0	26	0	15	0	6	0	0	0	0	0	1	0	79
Apprch %	9.7	0	90.3	0	63.4	0	36.6	0	100	0	0	0	0	0	100	0	
Total %	3.8	0	35.4	0	32.9	0	19	0	7.6	0	0	0	0	0	1.3	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	1	0	5	0	6	4	0	6	0	10	2	0	0	0	2	0	0	1	0	1	19
04:15 PM	0	0	2	0	2	3	0	2	0	5	1	0	0	0	1	0	0	0	0	0	8
04:30 PM	0	0	5	0	5	4	0	0	0	4	1	0	0	0	1	0	0	0	0	0	10
04:45 PM	0	0	5	0	5	3	0	2	0	5	0	0	0	0	0	0	0	0	0	0	10
Total Volume	1	0	17	0	18	14	0	10	0	24	4	0	0	0	4	0	0	1	0	1	47
% App. Total	5.6	0	94.4	0		58.3	0	41.7	0		100	0	0	0		0	0	100	0		
PHF	.250	.000	.850	.000	.750	.875	.000	.417	.000	.600	.500	.000	.000	.000	.500	.000	.000	.250	.000	.250	.618



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Groups Printed- Peds and Bikes

Start Time	Dedham Street From North				Dedham Street From South				Nahanton Street From West				Nahanton Street From Northwest				Int. Total
	Hard Right	Right	Thru	Peds	Thru	Bear Left	Left	Peds	Right	Left	Hard Left	Peds	Hard Right	Bear Right	Hard Left	Peds	
04:00 PM	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
04:45 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	4	0	2	0	0	0	0	0	0	0	6
05:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 PM	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
05:30 PM	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
05:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	3
Grand Total	0	0	0	0	0	0	7	0	2	0	0	0	0	0	0	0	9
Apprch %	0	0	0	0	0	0	100	0	100	0	0	0	0	0	0	0	
Total %	0	0	0	0	0	0	77.8	0	22.2	0	0	0	0	0	0	0	

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	Peds	App. Total	Thru	Bear Left	Left	Peds	App. Total	Right	Left	Hard Left	Peds	App. Total	Hard Right	Bear Right	Hard Left	Peds	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	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	2
04:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
04:30 PM	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	2
04:45 PM	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	4	0	4	2	0	0	0	2	0	0	0	0	0	6
% App. Total	0	0	0	0	0	0	0	100	0	100	100	0	0	0	100	0	0	0	0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.500	.000	.500	.500	.000	.000	.000	.500	.000	.000	.000	.000	.000	.750



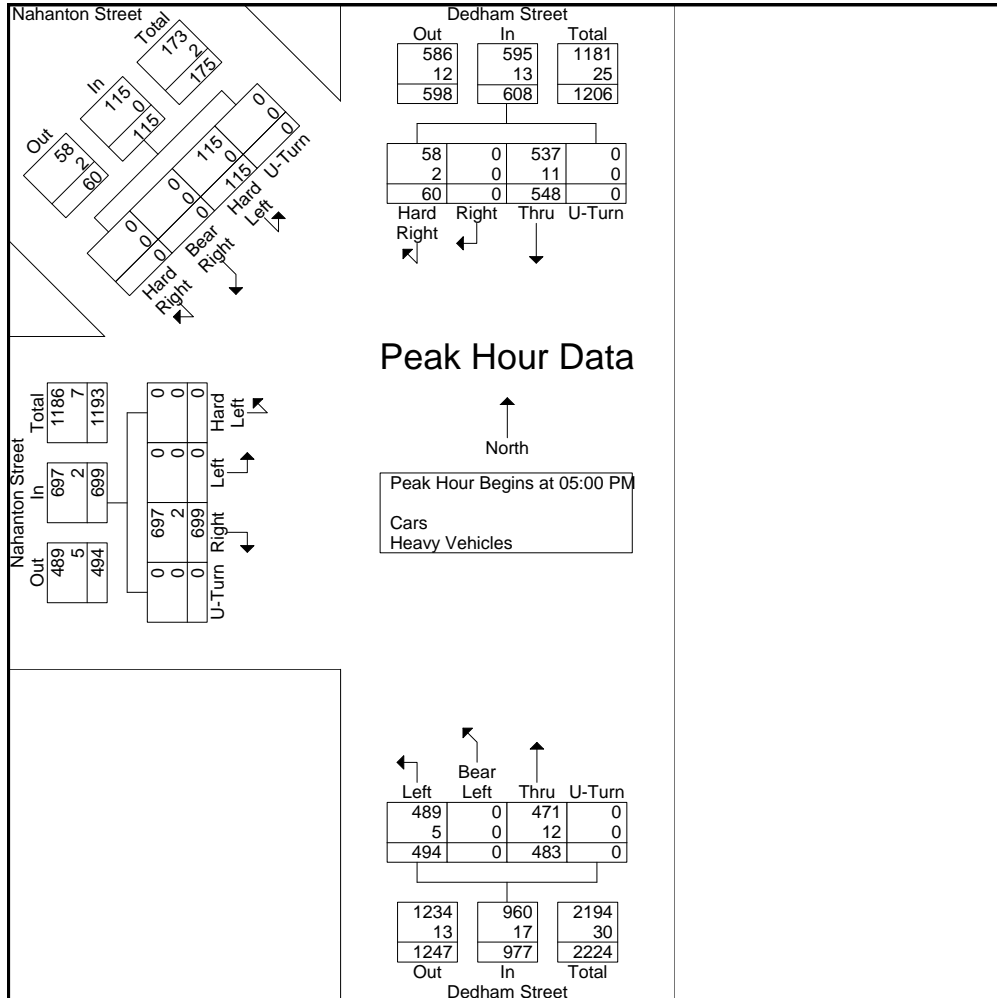
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N/S: Dedham Street
NW/W: Nahanton Street
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 CC
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Start Time	Dedham Street From North					Dedham Street From South					Nahanton Street From West					Nahanton Street From Northwest					Int. Total
	Hard Right	Right	Thru	U-Turn	App. Total	Thru	Bear Left	Left	U-Turn	App. Total	Right	Left	Hard Left	U-Turn	App. Total	Hard Right	Bear Right	Hard Left	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	11	0	131	0	142	119	0	135	0	254	176	0	0	0	176	0	0	30	0	30	602
05:15 PM	9	0	135	0	144	125	0	119	0	244	184	0	0	0	184	0	0	32	0	32	604
05:30 PM	17	0	137	0	154	115	0	136	0	251	163	0	0	0	163	0	0	26	0	26	594
05:45 PM	23	0	145	0	168	124	0	104	0	228	176	0	0	0	176	0	0	27	0	27	599
Total Volume	60	0	548	0	608	483	0	494	0	977	699	0	0	0	699	0	0	115	0	115	2399
% App. Total	9.9	0	90.1	0		49.4	0	50.6	0		100	0	0	0		0	0	100	0		
PHF	.652	.000	.945	.000	.905	.966	.000	.908	.000	.962	.950	.000	.000	.000	.950	.000	.000	.898	.000	.898	.993
Cars	58	0	537	0	595	471	0	489	0	960	697	0	0	0	697	0	0	115	0	115	2367
% Cars	96.7	0	98.0	0	97.9	97.5	0	99.0	0	98.3	99.7	0	0	0	99.7	0	0	100	0	100	98.7
Heavy Vehicles	2	0	11	0	13	12	0	5	0	17	2	0	0	0	2	0	0	0	0	0	32
% Heavy Vehicles	3.3	0	2.0	0	2.1	2.5	0	1.0	0	1.7	0.3	0	0	0	0.3	0	0	0	0	0	1.3





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File Name : 133590 D
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Cars - Heavy Vehicles

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	2	2	0	11	8	0	16	2	0	41
07:15 AM	0	2	0	18	19	0	20	0	0	59
07:30 AM	2	4	0	28	33	0	18	3	0	88
07:45 AM	2	5	0	19	31	0	30	2	0	89
Total	6	13	0	76	91	0	84	7	0	277
08:00 AM	1	5	0	20	41	0	25	1	0	93
08:15 AM	2	5	0	23	35	0	25	0	0	90
08:30 AM	3	17	0	18	32	0	24	3	0	97
08:45 AM	2	7	0	6	32	0	20	0	0	67
Total	8	34	0	67	140	0	94	4	0	347
Grand Total	14	47	0	143	231	0	178	11	0	624
Apprch %	23	77	0	38.2	61.8	0	94.2	5.8	0	
Total %	2.2	7.5	0	22.9	37	0	28.5	1.8	0	
Cars	12	46	0	140	223	0	176	10	0	607
% Cars	85.7	97.9	0	97.9	96.5	0	98.9	90.9	0	97.3
Heavy Vehicles	2	1	0	3	8	0	2	1	0	17
% Heavy Vehicles	14.3	2.1	0	2.1	3.5	0	1.1	9.1	0	2.7

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:45 AM													
07:45 AM	2	5	0	7	19	31	0	50	30	2	0	32	89
08:00 AM	1	5	0	6	20	41	0	61	25	1	0	26	93
08:15 AM	2	5	0	7	23	35	0	58	25	0	0	25	90
08:30 AM	3	17	0	20	18	32	0	50	24	3	0	27	97
Total Volume	8	32	0	40	80	139	0	219	104	6	0	110	369
% App. Total	20	80	0		36.5	63.5	0		94.5	5.5	0		
PHF	.667	.471	.000	.500	.870	.848	.000	.898	.867	.500	.000	.859	.951
Cars	8	31	0	39	77	137	0	214	103	5	0	108	361
% Cars	100	96.9	0	97.5	96.3	98.6	0	97.7	99.0	83.3	0	98.2	97.8
Heavy Vehicles	0	1	0	1	3	2	0	5	1	1	0	2	8
% Heavy Vehicles	0	3.1	0	2.5	3.8	1.4	0	2.3	1.0	16.7	0	1.8	2.2



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File Name : 133590 D
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahan/ E. Pacileo

Groups Printed- Cars

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	2	2	0	11	6	0	16	2	0	39
07:15 AM	0	2	0	18	18	0	20	0	0	58
07:30 AM	0	4	0	28	32	0	17	3	0	84
07:45 AM	2	5	0	18	31	0	30	2	0	88
Total	4	13	0	75	87	0	83	7	0	269
08:00 AM	1	5	0	19	41	0	24	0	0	90
08:15 AM	2	4	0	22	33	0	25	0	0	86
08:30 AM	3	17	0	18	32	0	24	3	0	97
08:45 AM	2	7	0	6	30	0	20	0	0	65
Total	8	33	0	65	136	0	93	3	0	338
Grand Total	12	46	0	140	223	0	176	10	0	607
Apprch %	20.7	79.3	0	38.6	61.4	0	94.6	5.4	0	
Total %	2	7.6	0	23.1	36.7	0	29	1.6	0	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:45 AM													
07:45 AM	2	5	0	7	18	31	0	49	30	2	0	32	88
08:00 AM	1	5	0	6	19	41	0	60	24	0	0	24	90
08:15 AM	2	4	0	6	22	33	0	55	25	0	0	25	86
08:30 AM	3	17	0	20	18	32	0	50	24	3	0	27	97
Total Volume	8	31	0	39	77	137	0	214	103	5	0	108	361
% App. Total	20.5	79.5	0		36	64	0		95.4	4.6	0		
PHF	.667	.456	.000	.488	.875	.835	.000	.892	.858	.417	.000	.844	.930



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File Name : 133590 D
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Heavy Vehicles

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
07:00 AM	0	0	0	0	2	0	0	0	0	2
07:15 AM	0	0	0	0	1	0	0	0	0	1
07:30 AM	2	0	0	0	1	0	1	0	0	4
07:45 AM	0	0	0	1	0	0	0	0	0	1
Total	2	0	0	1	4	0	1	0	0	8
08:00 AM	0	0	0	1	0	0	1	1	0	3
08:15 AM	0	1	0	1	2	0	0	0	0	4
08:30 AM	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	2	0	0	0	0	2
Total	0	1	0	2	4	0	1	1	0	9
Grand Total	2	1	0	3	8	0	2	1	0	17
Apprch %	66.7	33.3	0	27.3	72.7	0	66.7	33.3	0	
Total %	11.8	5.9	0	17.6	47.1	0	11.8	5.9	0	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:30 AM													
07:30 AM	2	0	0	2	0	1	0	1	1	0	0	1	4
07:45 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
08:00 AM	0	0	0	0	1	0	0	1	1	1	0	2	3
08:15 AM	0	1	0	1	1	2	0	3	0	0	0	0	4
Total Volume	2	1	0	3	3	3	0	6	2	1	0	3	12
% App. Total	66.7	33.3	0		50	50	0		66.7	33.3	0		
PHF	.250	.250	.000	.375	.750	.375	.000	.500	.500	.250	.000	.375	.750



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File Name : 133590 D
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Peds and Bikes

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	Peds	Right	Thru	Peds	Thru	Left	Peds	
07:00 AM	0	0	0	0	0	0	1	0	0	1
07:15 AM	0	0	0	0	1	0	1	0	0	2
07:30 AM	0	0	0	0	1	0	0	0	0	1
07:45 AM	0	0	1	0	0	0	0	0	0	1
Total	0	0	1	0	2	0	2	0	0	5
08:00 AM	0	0	0	0	1	0	0	0	0	1
08:15 AM	0	0	1	1	0	0	0	0	1	3
08:30 AM	0	0	4	0	0	0	0	0	3	7
08:45 AM	0	0	1	0	0	0	0	0	0	1
Total	0	0	6	1	1	0	0	0	4	12
Grand Total	0	0	7	1	3	0	2	0	4	17
Apprch %	0	0	100	25	75	0	33.3	0	66.7	
Total %	0	0	41.2	5.9	17.6	0	11.8	0	23.5	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1													
Peak Hour for Entire Intersection Begins at 07:45 AM													
07:45 AM	0	0	1	1	0	0	0	0	0	0	0	0	1
08:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	1
08:15 AM	0	0	1	1	1	0	0	1	0	0	1	1	3
08:30 AM	0	0	4	4	0	0	0	0	0	0	3	3	7
Total Volume	0	0	6	6	1	1	0	2	0	0	4	4	12
% App. Total	0	0	100		50	50	0		0	0	100		
PHF	.000	.000	.375	.375	.250	.250	.000	.500	.000	.000	.333	.333	.429



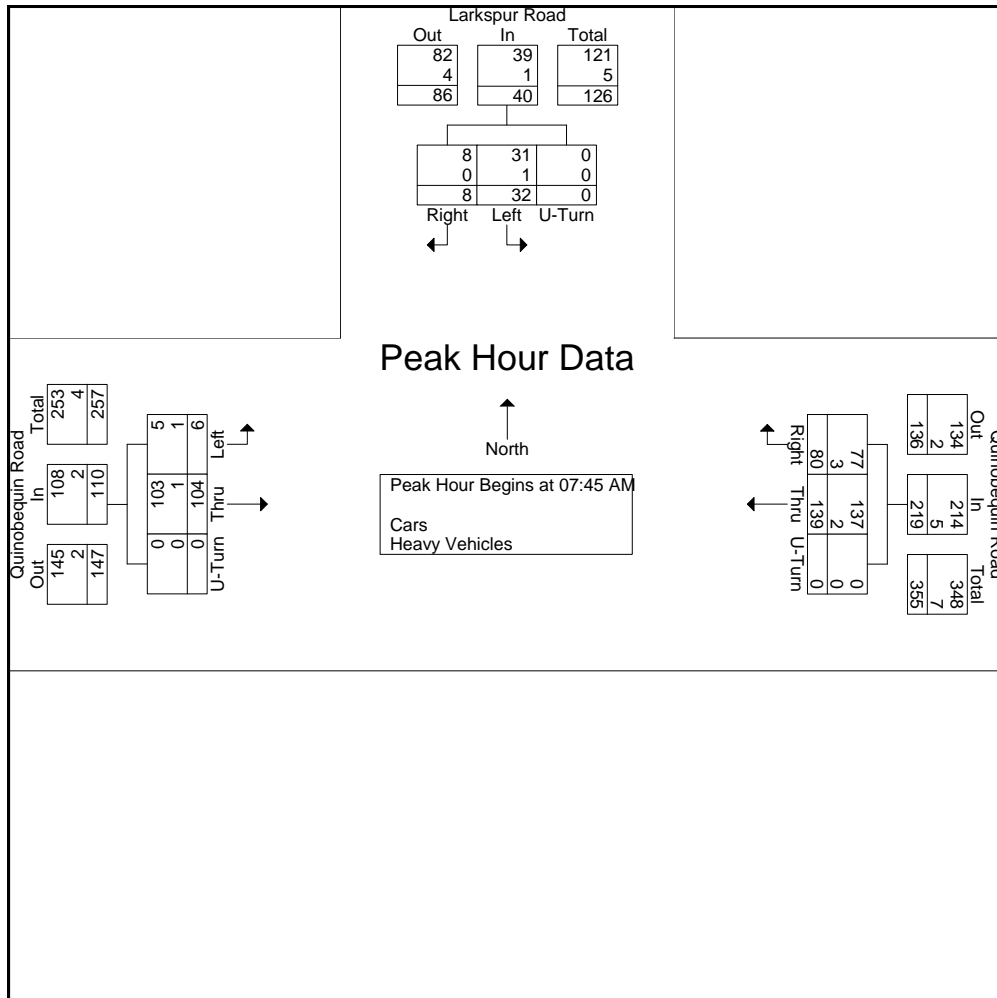
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File Name : 133590 D
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 07:45 AM													
07:45 AM	2	5	0	7	19	31	0	50	30	2	0	32	89
08:00 AM	1	5	0	6	20	41	0	61	25	1	0	26	93
08:15 AM	2	5	0	7	23	35	0	58	25	0	0	25	90
08:30 AM	3	17	0	20	18	32	0	50	24	3	0	27	97
Total Volume	8	32	0	40	80	139	0	219	104	6	0	110	369
% App. Total	20	80	0		36.5	63.5	0		94.5	5.5	0		
PHF	.667	.471	.000	.500	.870	.848	.000	.898	.867	.500	.000	.859	.951
Cars	8	31	0	39	77	137	0	214	103	5	0	108	361
% Cars	100	96.9	0	97.5	96.3	98.6	0	97.7	99.0	83.3	0	98.2	97.8
Heavy Vehicles	0	1	0	1	3	2	0	5	1	1	0	2	8
% Heavy Vehicles	0	3.1	0	2.5	3.8	1.4	0	2.3	1.0	16.7	0	1.8	2.2





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N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

File Name : 133590 DD
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Cars - Heavy Vehicles

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	0	5	0	4	10	0	39	0	0	58
04:15 PM	1	7	0	6	15	0	46	2	0	77
04:30 PM	3	9	0	4	19	0	37	2	0	74
04:45 PM	0	13	0	6	20	0	43	2	0	84
Total	4	34	0	20	64	0	165	6	0	293
05:00 PM	0	8	0	4	11	0	42	0	0	65
05:15 PM	0	18	0	6	11	0	51	0	0	86
05:30 PM	1	15	0	9	21	0	36	2	0	84
05:45 PM	2	10	0	4	24	0	60	1	0	101
Total	3	51	0	23	67	0	189	3	0	336
Grand Total	7	85	0	43	131	0	354	9	0	629
Apprch %	7.6	92.4	0	24.7	75.3	0	97.5	2.5	0	
Total %	1.1	13.5	0	6.8	20.8	0	56.3	1.4	0	
Cars	7	84	0	42	129	0	352	9	0	623
% Cars	100	98.8	0	97.7	98.5	0	99.4	100	0	99
Heavy Vehicles	0	1	0	1	2	0	2	0	0	6
% Heavy Vehicles	0	1.2	0	2.3	1.5	0	0.6	0	0	1

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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	0	8	0	8	4	11	0	15	42	0	0	42	65
05:15 PM	0	18	0	18	6	11	0	17	51	0	0	51	86
05:30 PM	1	15	0	16	9	21	0	30	36	2	0	38	84
05:45 PM	2	10	0	12	4	24	0	28	60	1	0	61	101
Total Volume	3	51	0	54	23	67	0	90	189	3	0	192	336
% App. Total	5.6	94.4	0		25.6	74.4	0		98.4	1.6	0		
PHF	.375	.708	.000	.750	.639	.698	.000	.750	.788	.375	.000	.787	.832
Cars	3	51	0	54	23	67	0	90	188	3	0	191	335
% Cars	100	100	0	100	100	100	0	100	99.5	100	0	99.5	99.7
Heavy Vehicles	0	0	0	0	0	0	0	0	1	0	0	1	1
% Heavy Vehicles	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0.3



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Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Groups Printed- Cars

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	0	5	0	4	10	0	39	0	0	58
04:15 PM	1	7	0	5	13	0	45	2	0	73
04:30 PM	3	8	0	4	19	0	37	2	0	73
04:45 PM	0	13	0	6	20	0	43	2	0	84
Total	4	33	0	19	62	0	164	6	0	288
05:00 PM	0	8	0	4	11	0	41	0	0	64
05:15 PM	0	18	0	6	11	0	51	0	0	86
05:30 PM	1	15	0	9	21	0	36	2	0	84
05:45 PM	2	10	0	4	24	0	60	1	0	101
Total	3	51	0	23	67	0	188	3	0	335
Grand Total	7	84	0	42	129	0	352	9	0	623
Apprch %	7.7	92.3	0	24.6	75.4	0	97.5	2.5	0	
Total %	1.1	13.5	0	6.7	20.7	0	56.5	1.4	0	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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	0	8	0	8	4	11	0	15	41	0	0	41	64
05:15 PM	0	18	0	18	6	11	0	17	51	0	0	51	86
05:30 PM	1	15	0	16	9	21	0	30	36	2	0	38	84
05:45 PM	2	10	0	12	4	24	0	28	60	1	0	61	101
Total Volume	3	51	0	54	23	67	0	90	188	3	0	191	335
% App. Total	5.6	94.4	0		25.6	74.4	0		98.4	1.6	0		
PHF	.375	.708	.000	.750	.639	.698	.000	.750	.783	.375	.000	.783	.829



PRECISION
D A T A
INDUSTRIES, LLC

P.O. Box 301 Berlin, MA 01503
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File Name : 133590 DD
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahan/ E. Pacileo

Groups Printed- Heavy Vehicles

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	U-Turn	Right	Thru	U-Turn	Thru	Left	U-Turn	
04:00 PM	0	0	0	0	0	0	0	0	0	0
04:15 PM	0	0	0	1	2	0	1	0	0	4
04:30 PM	0	1	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	1	2	0	1	0	0	5
05:00 PM	0	0	0	0	0	0	1	0	0	1
05:15 PM	0	0	0	0	0	0	0	0	0	0
05:30 PM	0	0	0	0	0	0	0	0	0	0
05:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	1	0	0	1
Grand Total	0	1	0	1	2	0	2	0	0	6
Apprch %	0	100	0	33.3	66.7	0	100	0	0	
Total %	0	16.7	0	16.7	33.3	0	33.3	0	0	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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 04:15 PM													
04:15 PM	0	0	0	0	1	2	0	3	1	0	0	1	4
04:30 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
04:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	0	0	0	0	1	0	0	1	1
Total Volume	0	1	0	1	1	2	0	3	2	0	0	2	6
% App. Total	0	100	0		33.3	66.7	0		100	0	0		
PHF	.000	.250	.000	.250	.250	.250	.000	.250	.500	.000	.000	.500	.375



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N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahan/ E. Pacileo

File Name : 133590 DD
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

Groups Printed- Peds and Bikes

Start Time	Larkspur Road From North			Quinobequin Road From East			Quinobequin Road From West			Int. Total
	Right	Left	Peds	Right	Thru	Peds	Thru	Left	Peds	
04:00 PM	0	0	0	0	1	0	0	0	0	1
04:15 PM	0	0	0	0	0	0	0	0	0	0
04:30 PM	0	0	0	0	0	0	0	0	0	0
04:45 PM	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	1	0	0	0	0	1
05:00 PM	0	0	1	0	0	0	2	0	0	3
05:15 PM	0	0	0	0	0	2	0	0	0	2
05:30 PM	0	0	1	0	0	1	0	0	0	2
05:45 PM	0	0	1	0	0	0	0	0	0	1
Total	0	0	3	0	0	3	2	0	0	8
Grand Total	0	0	3	0	1	3	2	0	0	9
Apprch %	0	0	100	0	25	75	100	0	0	
Total %	0	0	33.3	0	11.1	33.3	22.2	0	0	

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	Peds	App. Total	Right	Thru	Peds	App. Total	Thru	Left	Peds	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	0	0	1	1	0	0	0	0	2	0	0	2	3
05:15 PM	0	0	0	0	0	0	2	2	0	0	0	0	2
05:30 PM	0	0	1	1	0	0	1	1	0	0	0	0	2
05:45 PM	0	0	1	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	3	3	0	0	3	3	2	0	0	2	8
% App. Total	0	0	100		0	0	100		100	0	0		
PHF	.000	.000	.750	.750	.000	.000	.375	.375	.250	.000	.000	.250	.667



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File Name : 133590 DD
Site Code : Y12564
Start Date : 10/22/2013
Page No : 1

N: Larkspur Road
E/W: Quinobequin Road
City, State: Newton, MA
Client: McMahon/ E. Pacileo

Start Time	Larkspur Road From North				Quinobequin Road From East				Quinobequin Road From West				Int. Total
	Right	Left	U-Turn	App. Total	Right	Thru	U-Turn	App. Total	Thru	Left	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	0	8	0	8	4	11	0	15	42	0	0	42	65
05:15 PM	0	18	0	18	6	11	0	17	51	0	0	51	86
05:30 PM	1	15	0	16	9	21	0	30	36	2	0	38	84
05:45 PM	2	10	0	12	4	24	0	28	60	1	0	61	101
Total Volume	3	51	0	54	23	67	0	90	189	3	0	192	336
% App. Total	5.6	94.4	0		25.6	74.4	0		98.4	1.6	0		
PHF	.375	.708	.000	.750	.639	.698	.000	.750	.788	.375	.000	.787	.832
Cars	3	51	0	54	23	67	0	90	188	3	0	191	335
% Cars	100	100	0	100	100	100	0	100	99.5	100	0	99.5	99.7
Heavy Vehicles	0	0	0	0	0	0	0	0	1	0	0	1	1
% Heavy Vehicles	0	0	0	0	0	0	0	0	0.5	0	0	0.5	0.3

