Memorandum

To: Mr. Scott Lombardi
Vice President of Development
Mark Development
275 Grove Street, Suite 2-150
Newton, Massachusetts 02466

Date: March 22, 2023

Project #: 15864.00

From: Randy Hart, Principal

Re: Post Occupancy
Transportation Monitoring
Trio Newton
Newton, Massachusetts

Introduction

Vanasse Hangen Brustlin, Inc. (VHB) on behalf of Mark Development Traffic Monitoring Study in compliance with the requirements of June 19, 2017, In City Council Order for the formerly named Washington Place project. The project has been renamed to Trio Newton and is located at 845 Washington Street in Newton, Massachusetts. Specifically, General Conditions number 32 requires:

At the sole expense and within 12 months of the issuance of the final certificates of occupancy, the Petitioner shall complete a post occupancy traffic study to document and assess (i) the actual traffic characteristics, volumes, and operating conditions of the Project including safety and crash results; (ii) evaluate the success and refine elements of the TDM measures including parking utilization and residential and commercial tenant mode shares; and (iii) assess traffic volumes and operating conditions at the intersection of Walnut and Washington Streets, at the intersection of Washington Street and Lowell Avenue, at the intersection of Foster Street and Walnut Street, at the intersection of Foster Street and Lowell Avenue, at the intersection of Page Road and Walnut Street, and at the intersection of Page Road and Lowell Avenue. Traffic counts shall be performed under average month conditions while public schools are in regular session. The results shall be submitted to the City prior to the end of the calendar year in which the study is completed. If the results indicate the actual measured traffic volumes associate with the project as constructed and occupied exceed the trip estimates presented in the Traffic Impact Assessment by more than 10 percent of the project trip generation for the then occupied uses as measured at the two primary driveways serving the Project or the intersection of Walnut and Washington Street, then the Petitioner shall correct the problem by implementing the following mitigation measures:

a. *Appropriately adjust the traffic signal timing, phasing and coordination for the Walnut and Washington Street intersection;*
b. *Implement refinements to on-site traffic flow and parking management; and/or*
c. *Expand of modify the elements of the Transportation Demand Management Plan measures in order to increase the use of public transportation and/or other alternatives to automobile travel, subject to review of the Director of Planning and Development in consultation with the City's Director of Transportation.*

This memorandum summarizes the post occupancy data collected.

Memorandum

Crash Summary

A detailed crash analysis was conducted at the intersections identified in the Council Order for the most current vehicle crash data. That data was compared to the crash data that was gathered during the development of the TIA for the Trio project. The current MassDOT data that is available is for the period of 2015 to 2019 and the data which was available during the development of the Traffic Impact Assessment was for for the years 2009 to 2013. The comparison is provided in Table 1 below. It should be noted that the crash data available from the MassDOT portal only goes to 2019. The traffic signal improvements at Washington Street and Walnut Street and Washington Street and Lowell Street went into operation at the end of 2020 so the crash data does not represent the positive influence that has likely been realized by the signal improvements that were implemented as part of the Trio project.

Table 1 **Vehicular Crash Data Summary Comparison Continued**

	Walnut Street at Page Road		Lowell Avenue at Foster Street		Lowell Avenue at Page Road		Washington Terrace at Site Driveway/ Driveway/ Parking Garage		Walnut Street at Page Road		Lowell Avenue at Foster Street		Lowell Avenue at Page Road		Washington Terrace at Site Driveway/ Driveway/ Parking Garage	
	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019	2009-2013	2015-2019
Signalized?	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
MassDOT Average Crash Rate	0.52	0.52	0.52	0.52	0.52	0.52	0.58	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.58	0.52
Calculated Crash Rate	N/A	.28	N/A	.36	N/A	.37	0.04	0	N/A	.28	N/A	.36	N/A	.37	0.04	0
Exceeds Average?	N/A	No	N/A	No	N/A	No	No	No	N/A	No	N/A	No	N/A	No	No	No
Year																
1	0	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0
2	1	0	0	2	2	0	0	0	1	0	0	2	2	0	0	0
3	0	1	0	0	1	1	0	0	0	1	0	0	1	1	0	0
4	2	1	0	1	1	1	0	0	2	1	0	1	1	1	0	0
5	0	1	2	0	1	1	0	0	0	1	2	0	1	1	0	0
Total	3	4	3	3	5	3	0	0	3	4	3	3	5	3	0	0
Collision Type																
Angle	0	4	0	1	1	0	0	0	0	4	0	1	1	0	0	0
Head-on	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
Rear-end	1	0	0	1	2	1	0	0	1	0	0	1	2	1	0	0
Rear-to-rear	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0
Sideswipe, opposite direction	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sideswipe, same direction	0	0	1	0	2	2	0	0	0	0	1	0	2	2	0	0
Single Vehicle Crash	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Not reported	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0
Severity																
Fatal Injury	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Fatal Injury	1	1	1	0	0	1	0	0	1	1	1	0	0	1	0	0
Property Damage Only	2	3	1	3	3	1	0	0	2	3	1	3	3	1	0	0

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Not Reported	0	0	1	0	2	1	0	0	0	0	1	0	2	1	0	0
Time of day																
Weekday, 7:00 AM - 9:00 AM	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Weekday, 4:00 – 6:00 PM	0	0	0	1	1	0	0	0	0	0	0	1	1	0	0	0
Saturday, 11:00 AM – 2:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Weekday, other time	3	3	3	1	2	3	0	0	3	3	3	1	2	3	0	0
Weekend, other time	0	0	0	1	2	0	0	0	0	0	0	1	2	0	0	0
Pavement Conditions																
Dry	2	4	3	3	5	2	0	0	2	4	3	3	5	2	0	0
Wet	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0
Snow/Ice/Slush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Not reported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Motorist (Bike, Pedestrian)	3	4	3	3	5	3	0	0	3	4	3	3	5	3	0	0

Source: Crash data was obtained from MassDOT Crash Portal, accessed December 2022.

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Trip Generation

For the purpose of comparing the traffic projections for the Trio development to actual driveway traffic counts at the facility after full occupancy of the site, an assessment has been conducted. It should be understood that the project program evolved during the local permitting project and ended up being slightly different than that represented in the original TIA for the project. To provide full disclosure, traffic volumes from the original TIA as well as projections that have been made from the final program outlined in the Council Order are compared to the empirical driveway counts that were recently conducted after full occupancy was realized. To estimate the number of vehicle trips to be generated by the proposed redevelopment, traffic generation projections were prepared based on Institute of Transportation Engineers (ITE) *Trip Generation Manual*[1] data for Land Use Code (LUC) 220 (Multifamily Housing (Low-Rise)), LUC 932 (High-Turnover (Sit-Down) Restaurant), LUC 936 (Coffee/Donut Shop without Drive-Through Window), and LUC 822 (Strip Retail Plaza). Detailed trip generation calculations are included in the Attachments.

Unadjusted Project-Generated Traffic

Table 2 presents the Project-generated vehicle trips by land use based on ITE data.

Table 2 Unadjusted Project-Generated Vehicle Trips

	Original TIA (May 2016)	Traffic Projection for program in Council Order		
	Total [a]	Total [b]	Empirical Driveway Counts [c]	Difference [d]
Weekday Morning				
Enter	77	85	52	-33
Exit	96	118	40	-78
Total	173	203	92	-111
Weekday Evening				
Enter	241	244	128	-116
Exit	227	221	103	-118
Total	468	465	231	-234

Note: Peak hour trip generation based on peak hours of generator.

a Residential trip generation estimate based on ITE LUC 220 (Apartment) with 140 units, using regression equation where available, retail trip generation based on Trip generation estimate based on ITE LUC 820 (Shopping Center) with 49,160 sf (9Th Edition Trip Gen updated 2015)

b Residential trip generation estimate based on ITE LUC 220 (Apartment) with 160 units, using average, retail trip generation based on ITE LUC 820 (Shopping Center) with 47,165 sf, using average, community center trip generation based on LUC 495 (Recreational Community Center), using average (11th Edition Trip Gen updated 2021)

c Empirical driveway counts conducted on November 3, 2022

d Differenced between council order traffic projections and empirical driveway counts

1 Trip Generation Manual, 11th Edition, Institute of Transportation Engineers, Washington, D.C., 2021.

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As demonstrated in the table, the fully occupied Trio site is generating daily and peak hour traffic at a rate which is far below the projections from the original TIA and updated projections based on the final program that is defined in the Council Order. VHB represented that the projections that were put forward in the TIA were conservative particularly given the use of the ITE Land Use Code 820 Shopping Center for the retail component of the project. This is demonstrated in the table where we show the project is generating 111than projected during the morning peak hour, and 234 less trips than projected during the weekday evening peak hour.

Traffic Demand Management Survey Summary

The Traffic Demand Management Survey Summary has been conducted and the results were provided to the City as part of a separate submission on September 20, 2022.

Traffic Operational Analysis

As required in the Council Order, intersection operational analyses have been prepared based on the updated traffic counts that were collected post full occupancy. Those operational analyses have been compared to the operational analyses that were prepared in the Trio TIA. Table 3 presents the comparison of former and existing intersection operational analyses.

Table 3 Signalized Intersection Capacity

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Analysis

Location / Movement	2023 Build Conditions with Improvements From TIA					2022 Existing Conditions Current Counts				
	v/c [a]	Del [b]	LOS [c]	50 Q [d]	95 Q [e]	v/c	Del	LOS	50 Q	95 Q
Walnut Street at Washington Street										
Weekday Morning										
EB T	0.98	71	E	370	#508	0.75	25	C	143	237
WB T	>1.20	57	E	231	#338	>1.20	38	D	194	#266
NB L	0.55	42	D	67	114	0.56	46	D	39	#83
NB T	0.73	47	D	332	460	0.65	41	D	170	258
NB R	0.43	6	A	0	65	0.35	7	A	0	50
SB L	1.19	>120	F	~430	#643	0.10	39	D	10	30
SB T						>1.20	>120	F	~333	#516
Overall		**68**	**E**				**54**	**D**		
Weekday Evening										
EB T	0.79	50	D	295	373	0.46	18	B	77	123
WB T	>1.20	>120	F	~495	#671	1.04	75	E	~315	#391
NB L	0.68	51	D	81	#135	0.88	81	F	69	#172
NB T	0.74	49	D	342	471	0.85	54	D	247	#410
NB R	0.37	6	A	2	61	0.31	5	A	0	41
SB L	>1.20	>120	F	~540	#757	0.40	52	D	23	57
SB T						>1.20	>120	F	~300	#466
Overall		**116**	**F**				**73**	**E**		
Lowell Avenue at Washington Street										
Weekday Morning										
EB T	0.58	25	C	239	307	0.54	18	B	183	276
WB T	0.45	24	C	139	191	0.81	28	C	162	103
NB L	0.55	38	D	74	126	0.43	33	C	58	91
NB T	0.90	63	E	272	#475	0.65	26	C	126	188
SB T	1.00	94	F	~256	#437	0.56	46	D	77	m127
Overall		**43**	**D**				**25**	**C**		
Weekday Evening										
EB T	0.55	22	C	146	297	0.41	17	B	136	191
WB T	0.83	36	D	181	#421	0.71	22	C	144	m141
NB L	0.73	52	D	63	#210	0.69	42	D	90	#161
NB T	0.68	42	D	144	#333	0.48	27	C	123	193
SB T	0.89	61	E	206	#493	0.74	53	D	134	m212
Overall		**37**	**D**				**26**	**C**		

a Volume to capacity ratio.
b Average total delay, in seconds per vehicle.
c Level-of-service.
d 50th percentile queue, in feet.
e 95th percentile queue, in feet.
~ Volume exceeds capacity, queue is theoretically infinite.
# 95th percentile volume exceeds capacity, queue may be longer.
m Volume for 95th percentile queue is metered by upstream signal.
dl Defacto Left Lane. Recode with 1 through lane as a left lane.

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Garage Parking

Leasing Data: Trio's Parking Garage has a total of 210 parking spaces. The table below shows how many residential parking spaces were leased in the six months since the Post-Occupancy Traffic Study commenced (September 2022 through February 2023). On average, **136 spaces** are leased at any given time by residents of Trio. Of these 136 spaces, 25 are leased to affordable units and 111 are leased to market rate units. Tenants of the retail spaces lease an additional **10 spaces**. Thus, there are **64 spaces** in the garage that are not leased (on average).

	As of September 2022	As of October 2022	As of November 2022	As of December 2022	As of January 2023	As of February 2023	Average
Affordable Parking Spaces	24	24	24	24	28	27	25
Market Parking Spaces	108	110	109	117	110	101	111
Units Occupied	128	131	132	130	132	128	130
Total Spaces	**132**	**134**	**133**	**141**	**138**	**128**	**136**
Parking Ratio	0.94	0.96	0.95	1.01	0.99	0.91	0.97

Utilization Data: Mark Development commissioned a separate third-party vendor (Stantec) to take actual vehicle counts in the parking garage at Trio during two random mid-week 24-hour periods at the beginning and end of the Post-Occupancy Traffic Study to confirm utilization. Cars were counted at 1:30PM, 6:30PM, and 12:00AM in the parking garage. The results of the two parking count exercises are summarized below:

August 25, 2022
1:30PM: 76 of 210 spaces in use (36.2%)
6:30PM: 75 of 210 spaces in use (35.7%)
12:00AM: 109 of 210 spaces in use (51.9%)

February 2, 2023
1:30PM: 75 of 210 spaces in use (35.7%)
6:30PM: 85 of 210 spaces in use (40.5%)
12:00AM: 116 of 210 spaces in use (55.2%)

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Table 4 Unsignalized Intersection Capacity Analysis

Location / Movement	2023 Build Conditions From 2016 TIA D [a]	v/c [b]	Del [c]	LOS [d]	95 Q [e]	2022 Existing Conditions Current Counts D	v/c	Del	LOS	95 Q
Walnut Street at Lowell Avenue										
Weekday Morning										
EB L/T/R	*Intersection not analyzed in 2016 TIA*					100	>1.20	>120	F	268
WB L/T/R						7	0.06	35	D	5
SB L						5	0.01	10	A	0
Weekday Evening										
EB L/T/R						140	0.94	107	F	180
WB L/T/R						10	0.03	16	C	3
SB L						5	0.01	9	A	0
Lowell Avenue at Foster Street										
Weekday Morning										
WB L	*Intersection not analyzed in 2016 TIA*					10	0.03	10	B	3
Weekday Evening										
WB L						25	0.05	12	B	5
Walnut at Foster Street										
Weekday Morning										
EB L	*Intersection not analyzed in 2016 TIA*					2	0.01	21	C	0
NB L						5	0.01	9	A	0
Weekday Evening										
EB L										
NB L						15	0.02	8	A	0
Lowell Avenue at Page Road										
Weekday Morning										
EB L/T/R	*Intersection not analyzed in 2016 TIA*					1	0.00	9	A	0
NB L						10	0.02	8	A	3
SB L						15	0.02	8	A	3
Weekday Evening										
EB L/T/R						1	0.00	13	B	0
NB L						2	0.00	9	A	0
SB L						20	0.06	8	A	5
Walnut Street at Page Road										
Weekday Morning										
EB L	*Intersection not analyzed in 2016 TIA*					12	0.04	16	C	3
Weekday Evening										
EB L						20	0.08	18	C	8
Walnut Street at Site Driveway										
Weekday Morning										
EB L/T/R	60	0.14	14	B	13	30	0.08	14	B	8
NB L	20	0.02	8	A	3	15	0.02	9	A	3
Weekday Evening										
EB L/T/R	50	0.15	16	C	13	60	0.15	14	B	13
NB L	40	0.04	9	A	3	45	0.04	8	A	3

a Demand
b Volume to capacity ratio.
c Average total delay, in seconds per vehicle.
d Level-of-service.
e 95th percentile queue, in feet.
95th percentile volume exceeds capacity, queue may be longer.
m Volume for 95th percentile queue is metered by upstream signal.

Appendix

- Vehicular Crash Data
- Trip Generation Projections
- Traffic Volume Count Data
- Intersection Capacity Analyses
- TDM Survey

TRIP GENERATION

Land Use	Size	Units
Residential		160
Retail	47,165 SF	
Community Center	2,000 SF	

TRIP GENERATION SUMMARY - PHASE 2

	Residential [1]	Retail [2]	Community Center	Total
LUC	220	820		
SIZE	0	2,000 SF		
Weekday Daily				
Enter	540	873	29	1,442
Exit	540	873	29	1,442
Total	1,080	1,746	58	2,884
Weekday Morning Peak Hour				
Enter	18	74	2	94
Exit	57	61	1	119
Total	75	135	3	213
Weekday Evening Peak Hour				
Enter	57	96	2	155
Exit	35	96	3	134
Total	91	196	5	292

1 Trip generation estimate based on ITE LUC 220 (Apartment), using average (11th Edition Trip Gen updated 2021)
2 Trip generation estimate based on ITE LUC 820 (Shopping Center), using average (11th Edition Trip Gen updated 2021)
3 Trip Generation estimated based on ITE LUC 495 (Recreational Community Center), using average (11th Edition Trip Gen updated 2021)

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Multi-Family Housing (Low-Rise): *2-3 Story* - Not Close to Rail Transit
LANDUSE CODE: 220 Independent Variable --- Number of Dwelling Units
SETTING/LOCATION: General Urban/Suburban
JOB NAME: **Trio Post Occupancy** 160 units
JOB NUMBER: **15864**

WEEKDAY

RATES:

	# Studies	R^2	Total Trip Ends			Independent Variable Range			Directional Distribution	
			Average	Low	High	Average	Low	High	Enter	Exit
DAILY	22	0.86	6.74	2.46	12.50	229	33	494	50%	50%
AM PEAK OF GENERATOR	40	0.76	0.47	0.25	0.98	234	12	1,103	24%	76%
PM PEAK OF GENERATOR	38	0.80	0.57	0.25	1.26	231	12	1,103	62%	38%
AM PEAK (ADJACENT ST)	49	0.79	0.40	0.13	0.73	249	12	1,103	24%	76%
PM PEAK (ADJACENT ST)	59	0.84	0.51	0.08	1.04	241	12	1,103	63%	37%

TRIPS:

	BY AVERAGE			BY REGRESSION		
	Total	Enter	Exit	Total	Enter	Exit
DAILY	1,080	540	540	1,102	551	551
AM PEAK OF GENERATOR	75	18	57	84	20	64
PM PEAK OF GENERATOR	91	57	35	102	63	39
AM PEAK (ADJACENT ST)	64	15	49	72	17	55
PM PEAK (ADJACENT ST)	82	51	30	90	57	33

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Shopping Center (>150k)
LANDUSE CODE: 820
SETTING/LOCATION: General Urban/Suburban
JOB NAME: **Trio Post Occupancy**
JOB NUMBER: **15864**

Independent Variable ---

FLOOR AREA (KSF): 47.165

WEEKDAY

RATES:

	# Studies	R^2	Total Trip Ends			Independent Variable Range			Directional Distribution	
			Average	Low	High	Average	Low	High	Enter	Exit
DAILY	108	0.60	37.01	17.27	81.53	538	200	1,510	50%	50%
AM PEAK OF GENERATOR	26	0.77	2.87	1.04	5.86	509	200	1,320	55%	45%
PM PEAK OF GENERATOR	28	0.71	4.09	1.78	9.80	298	200	1,320	50%	50%
AM PEAK (ADJACENT ST)	44	0.56	0.84	0.30	3.11	546	200	1,510	62%	38%
PM PEAK (ADJACENT ST)	126	0.70	3.40	1.57	7.58	581	200	2,200	48%	52%

TRIPS:

	BY AVERAGE			BY REGRESSION		
	Total	Enter	Exit	Total	Enter	Exit
DAILY	1,746	873	873	7,096	3,548	3,548
AM PEAK OF GENERATOR	135	74	61	-115	-63	-52
PM PEAK OF GENERATOR	193	96	96	358	179	179
AM PEAK (ADJACENT ST)	40	25	15	161	100	61
PM PEAK (ADJACENT ST)	162	78	84	329	158	171

ITE TRIP GENERATION WORKSHEET
(11th Edition, Updated 2021)

LANDUSE: Recreational Community Center
LANDUSE CODE: 495
SETTING/LOCATION: General Urban/Suburban
JOB NAME: **Trio Post Occupancy**
JOB NUMBER: **15864**

Independent Variable ---

FLOOR AREA (KSF): 2.000

WEEKDAY

RATES:

	# Studies	R^2	Total Trip Ends			Independent Variable Range			Directional Distribution	
			Average	Low	High	Average	Low	High	Enter	Exit
DAILY	4	0.74	28.82	21.49	36.71	78	38	127	50%	50%
AM PEAK OF GENERATOR	11	0.63	1.85	1.14	4.17	142	38	354	63%	37%
PM PEAK OF GENERATOR	11	0.60	2.52	1.39	5.37	143	38	354	47%	53%
AM PEAK (ADJACENT ST)	15	0.57	2.50	1.05	5.37	105	38	225	47%	53%
PM PEAK (ADJACENT ST)	11	0.63	1.85	1.14	4.17	124	18	354	63%	37%

TRIPS:

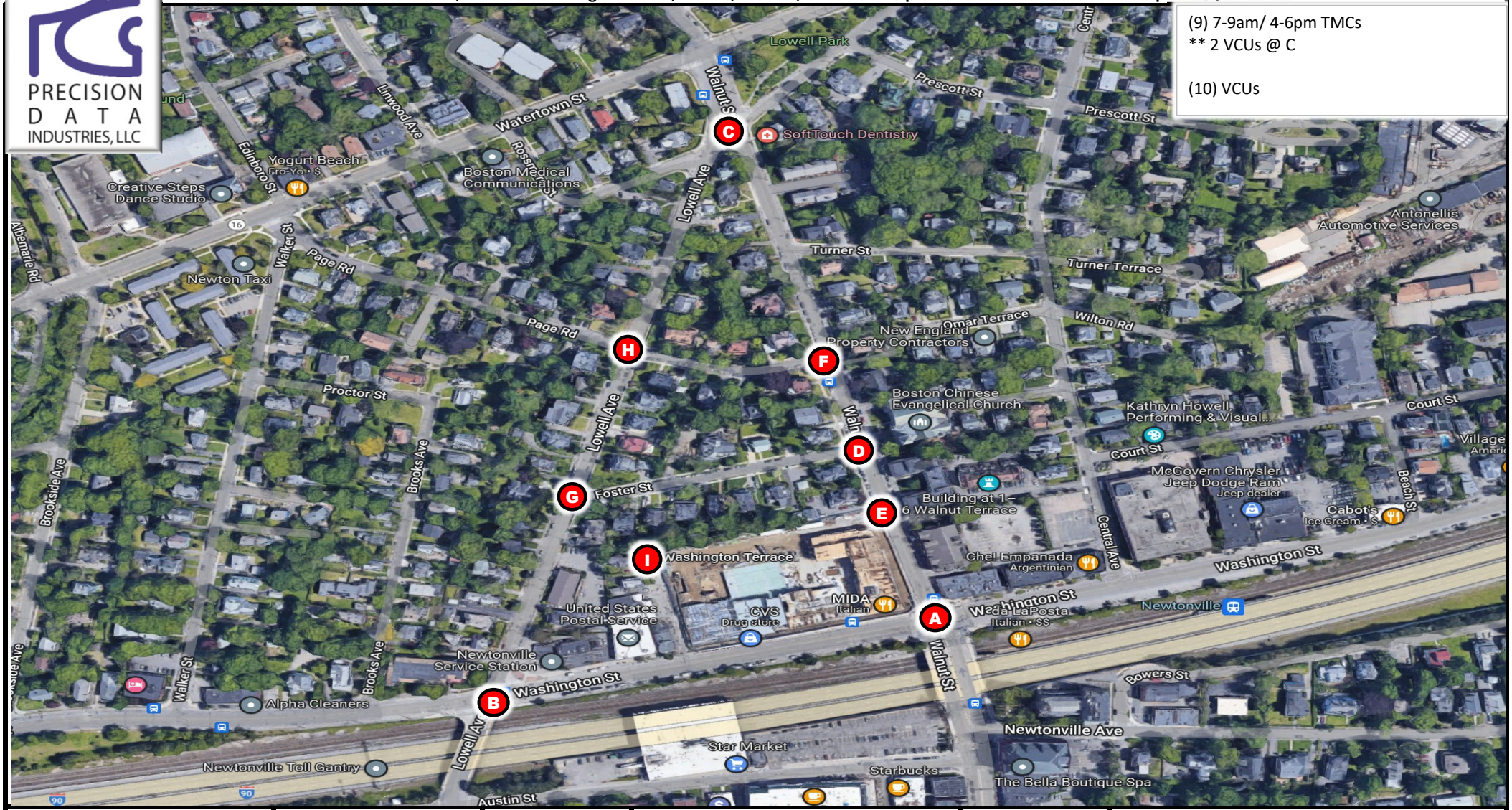
	BY AVERAGE			BY REGRESSION		
	Total	Enter	Exit	Total	Enter	Exit
DAILY	58	29	29	-	-	-
AM PEAK OF GENERATOR	4	2	1	-	-	-
PM PEAK OF GENERATOR	5	2	3	-	-	-
AM PEAK (ADJACENT ST)	6	3	3	-	-	-
PM PEAK (ADJACENT ST)	4	3	1	-	-	-

Location Map: 228976 Newton, MA

Precision Data Industries, LLC 157 Washington Street, Suite 2, Hudson, MA 01749 ph: 508-875-0100 email: datarequests@pdillc.com

(9) 7-9am/ 4-6pm TMCs
** 2 VCUs @ C

(10) VCUs



Client:	Engineer:	Site Code:	Date:	PDI Job #	City, State:
VHB	R. Hart		Thursday 11/3/22	228976	Newton, MA

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	60	3	0	63	4	44	25	0	73	25	38	6	0	69	6	81	5	0	92	297
7:15 AM	2	81	4	0	87	7	46	19	0	72	31	36	8	1	76	8	110	3	0	121	356
7:30 AM	1	62	6	0	69	11	37	21	0	69	40	84	17	1	142	15	129	4	0	148	428
7:45 AM	3	75	5	0	83	4	66	48	0	118	50	75	21	0	146	38	161	4	0	203	550
Total	6	278	18	0	302	26	193	113	0	332	146	233	52	2	433	67	481	16	0	564	1631
8:00 AM	3	65	6	0	74	7	71	37	0	115	28	66	17	0	111	30	141	8	0	179	479
8:15 AM	9	96	2	0	107	9	80	47	0	136	51	59	12	0	122	28	142	17	0	187	552
8:30 AM	7	82	4	0	93	8	82	55	0	145	34	66	21	0	121	21	111	28	0	160	519
8:45 AM	7	89	4	0	100	11	56	50	0	117	33	66	17	0	116	19	119	27	0	165	498
Total	26	332	16	0	374	35	289	189	0	513	146	257	67	0	470	98	513	80	0	691	2048
Grand Total	32	610	34	0	676	61	482	302	0	845	292	490	119	2	903	165	994	96	0	1255	3679
Approach %	4.7	90.2	5.0	0.0		7.2	57.0	35.7	0.0		32.3	54.3	13.2	0.2		13.1	79.2	7.6	0.0		
Total %	0.9	16.6	0.9	0.0	18.4	1.7	13.1	8.2	0.0	23.0	7.9	13.3	3.2	0.1	24.5	4.5	27.0	2.6	0.0	34.1	
Exiting Leg Total					647					1320					1079					633	3679
Cars	30	562	30	0	622	58	460	281	0	799	274	468	114	2	858	159	952	91	0	1202	3481
% Cars	93.8	92.1	88.2	0.0	92.0	95.1	95.4	93.0	0.0	94.6	93.8	95.5	95.8	100.0	95.0	96.4	95.8	94.8	0.0	95.8	94.6
Exiting Leg Total					617					1256					1004					604	3481
Heavy Vehicles	2	48	4	0	54	3	22	21	0	46	18	22	5	0	45	6	42	5	0	53	198
% Heavy Vehicles	6.3	7.9	11.8	0.0	8.0	4.9	4.6	7.0	0.0	5.4	6.2	4.5	4.2	0.0	5.0	3.6	4.2	5.2	0.0	4.2	5.4
Exiting Leg Total					30					64					75					29	198

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	3	75	5	0	83	4	66	48	0	118	50	75	21	0	146	38	161	4	0	203	550
8:00 AM	3	65	6	0	74	7	71	37	0	115	28	66	17	0	111	30	141	8	0	179	479
8:15 AM	9	96	2	0	107	9	80	47	0	136	51	59	12	0	122	28	142	17	0	187	552
8:30 AM	7	82	4	0	93	8	82	55	0	145	34	66	21	0	121	21	111	28	0	160	519
Total Volume	22	318	17	0	357	28	299	187	0	514	163	266	71	0	500	117	555	57	0	729	2100
% Approach Total	6.2	89.1	4.8	0.0		5.4	58.2	36.4	0.0		32.6	53.2	14.2	0.0		16.0	76.1	7.8	0.0		
PHF	0.611	0.828	0.708	0.000	0.834	0.778	0.912	0.850	0.000	0.886	0.799	0.887	0.845	0.000	0.856	0.770	0.862	0.509	0.000	0.898	0.951
Cars	20	300	15	0	335	27	291	181	0	499	151	253	67	0	471	115	529	53	0	697	2002
Cars %	90.9	94.3	88.2	0.0	93.8	96.4	97.3	96.8	0.0	97.1	92.6	95.1	94.4	0.0	94.2	98.3	95.3	93.0	0.0	95.6	95.3
Heavy Vehicles	2	18	2	0	22	1	8	6	0	15	12	13	4	0	29	2	26	4	0	32	98
Heavy Vehicles %	9.1	5.7	11.8	0.0	6.2	3.6	2.7	3.2	0.0	2.9	7.4	4.9	5.6	0.0	5.8	1.7	4.7	7.0	0.0	4.4	4.7
Cars Enter Leg	20	300	15	0	335	27	291	181	0	499	151	253	67	0	471	115	529	53	0	697	2002
Heavy Enter Leg	2	18	2	0	22	1	8	6	0	15	12	13	4	0	29	2	26	4	0	32	98
Total Entering Leg	22	318	17	0	357	28	299	187	0	514	163	266	71	0	500	117	555	57	0	729	2100
Cars Exiting Leg					333					695					596					378	2002
Heavy Exiting Leg					18					40					26					14	98
Total Exiting Leg					351					735					622					392	2100

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	54	3	0	57	3	42	17	0	62	25	37	6	0	68	6	79	5	0	90	277
7:15 AM	2	66	4	0	72	7	41	16	0	64	31	35	8	1	75	7	106	3	0	116	327
7:30 AM	1	58	5	0	64	11	32	18	0	61	39	82	16	1	138	14	127	3	0	144	407
7:45 AM	3	70	5	0	78	3	65	46	0	114	49	74	21	0	144	38	157	4	0	199	535
Total	6	248	17	0	271	24	180	97	0	301	144	228	51	2	425	65	469	15	0	549	1546
8:00 AM	3	63	5	0	71	7	68	36	0	111	24	63	16	0	103	30	135	7	0	172	457
8:15 AM	9	93	2	0	104	9	78	46	0	133	46	54	12	0	112	27	132	15	0	174	523
8:30 AM	5	74	3	0	82	8	80	53	0	141	32	62	18	0	112	20	105	27	0	152	487
8:45 AM	7	84	3	0	94	10	54	49	0	113	28	61	17	0	106	17	111	27	0	155	468
Total	24	314	13	0	351	34	280	184	0	498	130	240	63	0	433	94	483	76	0	653	1935
Grand Total	30	562	30	0	622	58	460	281	0	799	274	468	114	2	858	159	952	91	0	1202	3481
Approach %	4.8	90.4	4.8	0.0		7.3	57.6	35.2	0.0		31.9	54.5	13.3	0.2		13.2	79.2	7.6	0.0		
Total %	0.9	16.1	0.9	0.0	17.9	1.7	13.2	8.1	0.0	23.0	7.9	13.4	3.3	0.1	24.6	4.6	27.3	2.6	0.0	34.5	
Exiting Leg Total					617					1256					1004					604	3481

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	3	70	5	0	78	3	65	46	0	114	49	74	21	0	144	38	157	4	0	199	535
8:00 AM	3	63	5	0	71	7	68	36	0	111	24	63	16	0	103	30	135	7	0	172	457
8:15 AM	9	93	2	0	104	9	78	46	0	133	46	54	12	0	112	27	132	15	0	174	523
8:30 AM	5	74	3	0	82	8	80	53	0	141	32	62	18	0	112	20	105	27	0	152	487
Total Volume	20	300	15	0	335	27	291	181	0	499	151	253	67	0	471	115	529	53	0	697	2002
% Approach Total	6.0	89.6	4.5	0.0		5.4	58.3	36.3	0.0		32.1	53.7	14.2	0.0		16.5	75.9	7.6	0.0		
PHF	0.556	0.806	0.750	0.000	0.805	0.750	0.909	0.854	0.000	0.885	0.770	0.855	0.798	0.000	0.818	0.757	0.842	0.491	0.000	0.876	0.936
Entering Leg	20	300	15	0	335	27	291	181	0	499	151	253	67	0	471	115	529	53	0	697	2002
Exiting Leg					333					695					596					378	2002
Total					668					1194					1067					1075	4004

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	6	0	0	6	1	2	8	0	11	0	1	0	0	1	0	2	0	0	2	20
7:15 AM	0	15	0	0	15	0	5	3	0	8	0	1	0	0	1	1	4	0	0	5	29
7:30 AM	0	4	1	0	5	0	5	3	0	8	1	2	1	0	4	1	2	1	0	4	21
7:45 AM	0	5	0	0	5	1	1	2	0	4	1	1	0	0	2	0	4	0	0	4	15
Total	0	30	1	0	31	2	13	16	0	31	2	5	1	0	8	2	12	1	0	15	85
8:00 AM	0	2	1	0	3	0	3	1	0	4	4	3	1	0	8	0	6	1	0	7	22
8:15 AM	0	3	0	0	3	0	2	1	0	3	5	5	0	0	10	1	10	2	0	13	29
8:30 AM	2	8	1	0	11	0	2	2	0	4	2	4	3	0	9	1	6	1	0	8	32
8:45 AM	0	5	1	0	6	1	2	1	0	4	5	5	0	0	10	2	8	0	0	10	30
Total	2	18	3	0	23	1	9	5	0	15	16	17	4	0	37	4	30	4	0	38	113
Grand Total	2	48	4	0	54	3	22	21	0	46	18	22	5	0	45	6	42	5	0	53	198
Approach %	3.7	88.9	7.4	0.0		6.5	47.8	45.7	0.0		40.0	48.9	11.1	0.0		11.3	79.2	9.4	0.0		
Total %	1.0	24.2	2.0	0.0	27.3	1.5	11.1	10.6	0.0	23.2	9.1	11.1	2.5	0.0	22.7	3.0	21.2	2.5	0.0	26.8	
Exiting Leg Total					30					64					75					29	198
Buses	0	7	2	0	9	2	8	11	0	21	10	10	0	0	20	0	7	0	0	7	57
% Buses	0.0	14.6	50.0	0.0	16.7	66.7	36.4	52.4	0.0	45.7	55.6	45.5	0.0	0.0	44.4	0.0	16.7	0.0	0.0	13.2	28.8
Exiting Leg Total					12					19					18					8	57
Single-Unit Trucks	2	21	2	0	25	1	13	9	0	23	7	10	5	0	22	5	32	5	0	42	112
% Single-Unit	100.0	43.8	50.0	0.0	46.3	33.3	59.1	42.9	0.0	50.0	38.9	45.5	100.0	0.0	48.9	83.3	76.2	100.0	0.0	79.2	56.6
Exiting Leg Total					16					41					35					20	112
Articulated Trucks	0	20	0	0	20	0	1	1	0	2	1	2	0	0	3	1	3	0	0	4	29
% Articulated	0.0	41.7	0.0	0.0	37.0	0.0	4.5	4.8	0.0	4.3	5.6	9.1	0.0	0.0	6.7	16.7	7.1	0.0	0.0	7.5	14.6
Exiting Leg Total					2					4					22					1	29

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
8:00 AM	0	2	1	0	3	0	3	1	0	4	4	3	1	0	8	0	6	1	0	7	22
8:15 AM	0	3	0	0	3	0	2	1	0	3	5	5	0	0	10	1	10	2	0	13	29
8:30 AM	2	8	1	0	11	0	2	2	0	4	2	4	3	0	9	1	6	1	0	8	32
8:45 AM	0	5	1	0	6	1	2	1	0	4	5	5	0	0	10	2	8	0	0	10	30
Total Volume	2	18	3	0	23	1	9	5	0	15	16	17	4	0	37	4	30	4	0	38	113
% Approach Total	8.7	78.3	13.0	0.0		6.7	60.0	33.3	0.0		43.2	45.9	10.8	0.0		10.5	78.9	10.5	0.0		
PHF	0.250	0.563	0.750	0.000	0.523	0.250	0.750	0.625	0.000	0.938	0.800	0.850	0.333	0.000	0.925	0.500	0.750	0.500	0.000	0.731	0.883
Buses	0	2	1	0	3	1	3	1	0	5	9	6	0	0	15	0	6	0	0	6	29
Buses %	0.0	11.1	33.3	0.0	13.0	100.0	33.3	20.0	0.0	33.3	56.3	35.3	0.0	0.0	40.5	0.0	20.0	0.0	0.0	15.8	25.7
Single-Unit Trucks	2	10	2	0	14	0	6	4	0	10	6	9	4	0	19	3	23	4	0	30	73
Single-Unit %	100.0	55.6	66.7	0.0	60.9	0.0	66.7	80.0	0.0	66.7	37.5	52.9	100.0	0.0	51.4	75.0	76.7	100.0	0.0	78.9	64.6
Articulated Trucks	0	6	0	0	6	0	0	0	0	0	1	2	0	0	3	1	1	0	0	2	11
Articulated %	0.0	33.3	0.0	0.0	26.1	0.0	0.0	0.0	0.0	0.0	6.3	11.8	0.0	0.0	8.1	25.0	3.3	0.0	0.0	5.3	9.7
Buses	0	2	1	0	3	1	3	1	0	5	9	6	0	0	15	0	6	0	0	6	29
Single-Unit Trucks	2	10	2	0	14	0	6	4	0	10	6	9	4	0	19	3	23	4	0	30	73
Articulated Trucks	0	6	0	0	6	0	0	0	0	0	1	2	0	0	3	1	1	0	0	2	11
Total Entering Leg	2	18	3	0	23	1	9	5	0	15	16	17	4	0	37	4	30	4	0	38	113
Buses					7					16					3					3	29
Single-Unit Trucks					13					31					17					12	73
Articulated Trucks					2					2					7					0	11
Total Exiting Leg					22					49					27					15	113

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	1	4	0	5	0	1	0	0	1	0	0	0	0	0	7
7:15 AM	0	1	0	0	1	0	2	3	0	5	0	1	0	0	1	0	0	0	0	0	7
7:30 AM	0	3	1	0	4	0	2	2	0	4	1	1	0	0	2	0	1	0	0	1	11
7:45 AM	0	0	0	0	0	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	3
Total	0	5	1	0	6	1	5	10	0	16	1	4	0	0	5	0	1	0	0	1	28
8:00 AM	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
8:15 AM	0	1	0	0	1	0	0	0	0	0	3	4	0	0	7	0	5	0	0	5	13
8:30 AM	0	0	1	0	1	0	1	0	0	1	0	2	0	0	2	0	1	0	0	1	5
8:45 AM	0	1	0	0	1	1	1	1	0	3	5	0	0	0	5	0	0	0	0	0	9
Total	0	2	1	0	3	1	3	1	0	5	9	6	0	0	15	0	6	0	0	6	29
Grand Total	0	7	2	0	9	2	8	11	0	21	10	10	0	0	20	0	7	0	0	7	57
Approach %	0.0	77.8	22.2	0.0		9.5	38.1	52.4	0.0		50.0	50.0	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	12.3	3.5	0.0	15.8	3.5	14.0	19.3	0.0	36.8	17.5	17.5	0.0	0.0	35.1	0.0	12.3	0.0	0.0	12.3	
Exiting Leg Total					12					19					18					8	57

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:30 AM	0	3	1	0	4	0	2	2	0	4	1	1	0	0	2	0	1	0	0	1	11
7:45 AM	0	0	0	0	0	1	0	1	0	2	0	1	0	0	1	0	0	0	0	0	3
8:00 AM	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	2
8:15 AM	0	1	0	0	1	0	0	0	0	0	3	4	0	0	7	0	5	0	0	5	13
Total Volume	0	4	1	0	5	1	3	3	0	7	5	6	0	0	11	0	6	0	0	6	29
% Approach Total	0.0	80.0	20.0	0.0		14.3	42.9	42.9	0.0		45.5	54.5	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.333	0.250	0.000	0.313	0.250	0.375	0.375	0.000	0.438	0.417	0.375	0.000	0.000	0.393	0.000	0.300	0.000	0.000	0.300	0.558
Entering Leg	0	4	1	0	5	1	3	3	0	7	5	6	0	0	11	0	6	0	0	6	29
Exiting Leg					7					12					7					3	29
Total					12					19					18					9	58

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	2	0	0	2	1	1	3	0	5	0	0	0	0	0	0	1	0	0	1	8
7:15 AM	0	7	0	0	7	0	3	0	0	3	0	0	0	0	0	1	3	0	0	4	14
7:30 AM	0	0	0	0	0	0	2	1	0	3	0	1	1	0	2	1	1	1	0	3	8
7:45 AM	0	2	0	0	2	0	1	1	0	2	1	0	0	0	1	0	4	0	0	4	9
Total	0	11	0	0	11	1	7	5	0	13	1	1	1	0	3	2	9	1	0	12	39
8:00 AM	0	1	1	0	2	0	2	1	0	3	3	1	1	0	5	0	6	1	0	7	17
8:15 AM	0	1	0	0	1	0	2	1	0	3	1	1	0	0	2	0	5	2	0	7	13
8:30 AM	2	6	0	0	8	0	1	2	0	3	2	2	3	0	7	1	5	1	0	7	25
8:45 AM	0	2	1	0	3	0	1	0	0	1	0	5	0	0	5	2	7	0	0	9	18
Total	2	10	2	0	14	0	6	4	0	10	6	9	4	0	19	3	23	4	0	30	73
Grand Total	2	21	2	0	25	1	13	9	0	23	7	10	5	0	22	5	32	5	0	42	112
Approach %	8.0	84.0	8.0	0.0		4.3	56.5	39.1	0.0		31.8	45.5	22.7	0.0		11.9	76.2	11.9	0.0		
Total %	1.8	18.8	1.8	0.0	22.3	0.9	11.6	8.0	0.0	20.5	6.3	8.9	4.5	0.0	19.6	4.5	28.6	4.5	0.0	37.5	
Exiting Leg Total					16					41					35					20	112

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
8:00 AM	0	1	1	0	2	0	2	1	0	3	3	1	1	0	5	0	6	1	0	7	17
8:15 AM	0	1	0	0	1	0	2	1	0	3	1	1	0	0	2	0	5	2	0	7	13
8:30 AM	2	6	0	0	8	0	1	2	0	3	2	2	3	0	7	1	5	1	0	7	25
8:45 AM	0	2	1	0	3	0	1	0	0	1	0	5	0	0	5	2	7	0	0	9	18
Total Volume	2	10	2	0	14	0	6	4	0	10	6	9	4	0	19	3	23	4	0	30	73
% Approach Total	14.3	71.4	14.3	0.0		0.0	60.0	40.0	0.0		31.6	47.4	21.1	0.0		10.0	76.7	13.3	0.0		
PHF	0.250	0.417	0.500	0.000	0.438	0.000	0.750	0.500	0.000	0.833	0.500	0.450	0.333	0.000	0.679	0.375	0.821	0.500	0.000	0.833	0.730
Entering Leg	2	10	2	0	14	0	6	4	0	10	6	9	4	0	19	3	23	4	0	30	73
Exiting Leg					13					31					17					12	73
Total					27					41					36					42	146

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	5
7:15 AM	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	8
7:30 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total	0	14	0	0	14	0	1	1	0	2	0	0	0	0	0	0	2	0	0	2	18
8:00 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
8:15 AM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	1	0	0	0	1	3
8:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	3
Total	0	6	0	0	6	0	0	0	0	0	1	2	0	0	3	1	1	0	0	2	11
Grand Total	0	20	0	0	20	0	1	1	0	2	1	2	0	0	3	1	3	0	0	4	29
Approach %	0.0	100.0	0.0	0.0		0.0	50.0	50.0	0.0		33.3	66.7	0.0	0.0		25.0	75.0	0.0	0.0		
Total %	0.0	69.0	0.0	0.0	69.0	0.0	3.4	3.4	0.0	6.9	3.4	6.9	0.0	0.0	10.3	3.4	10.3	0.0	0.0	13.8	
Exiting Leg Total					2					4					22					1	29

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	3	0	0	3	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	5
7:15 AM	0	7	0	0	7	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	8
7:30 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total Volume	0	14	0	0	14	0	1	1	0	2	0	0	0	0	0	0	2	0	0	2	18
% Approach Total	0.0	100.0	0.0	0.0		0.0	50.0	50.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.250	0.250	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.563
Entering Leg	0	14	0	0	14	0	1	1	0	2	0	0	0	0	0	0	2	0	0	2	18
Exiting Leg					0					2					15					1	18
Total					14					4					15					3	36

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	2	0	0	0	0	2	0	0	0	0	0	0	0	3
7:15 AM	0	2	0	0	0	0	2	0	0	0	0	0	2	2	0	1	0	0	0	0	1	0	0	0	0	0	0	0	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	3	0	0	0	0	3	0	0	0	0	0	0	0	4
7:45 AM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3
Total	0	3	0	0	0	0	3	0	0	1	0	0	4	5	0	7	0	0	0	0	7	0	0	0	0	0	0	0	15
8:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	2	0	0	0	0	2	0	1	1	0	0	0	2	0	0	0	0	0	1	1	1	0	0	0	0	0	1	6
8:30 AM	0	7	0	0	0	0	7	0	0	6	0	0	0	6	0	1	0	0	0	0	1	0	0	0	0	0	0	0	14
8:45 AM	0	15	0	0	0	0	15	0	0	6	0	0	0	6	0	1	0	0	0	0	1	0	1	0	0	0	4	5	27
Total	0	25	0	0	0	0	25	0	1	13	0	0	0	14	0	2	0	0	0	1	3	1	1	0	0	0	4	6	48
Grand Total	0	28	0	0	0	0	28	0	1	14	0	0	4	19	0	9	0	0	0	1	10	1	1	0	0	0	4	6	63
Approach %	0.0	100.0	0.0	0.0	0.0	0.0		0.0	5.3	73.7	0.0	0.0	21.1		0.0	90.0	0.0	0.0	0.0	10.0		16.7	16.7	0.0	0.0	0.0	66.7		
Total %	0.0	44.4	0.0	0.0	0.0	0.0	44.4	0.0	1.6	22.2	0.0	0.0	6.3	30.2	0.0	14.3	0.0	0.0	0.0	1.6	15.9	1.6	1.6	0.0	0.0	0.0	6.3	9.5	
Exiting Leg Total							9							5							44							5	63

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	2	0	0	0	0	2	0	1	1	0	0	0	2	0	0	0	0	0	1	1	1	0	0	0	0	0	1	6
8:30 AM	0	7	0	0	0	0	7	0	0	6	0	0	0	6	0	1	0	0	0	0	1	0	0	0	0	0	0	0	14
8:45 AM	0	15	0	0	0	0	15	0	0	6	0	0	0	6	0	1	0	0	0	0	1	0	1	0	0	0	4	5	27
Total Volume	0	25	0	0	0	0	25	0	1	13	0	0	0	14	0	2	0	0	0	1	3	1	1	0	0	0	4	6	48
% Approach Total	0.0	100.0	0.0	0.0	0.0	0.0		0.0	7.1	92.9	0.0	0.0	0.0		0.0	66.7	0.0	0.0	0.0	33.3		16.7	16.7	0.0	0.0	0.0	66.7		
PHF	0.000	0.417	0.000	0.000	0.000	0.000	0.417	0.000	0.250	0.542	0.000	0.000	0.000	0.583	0.000	0.500	0.000	0.000	0.000	0.250	0.750	0.250	0.250	0.000	0.000	0.000	0.250	0.300	0.444
Entering Leg	0	25	0	0	0	0	25	0	1	13	0	0	0	14	0	2	0	0	0	1	3	1	1	0	0	0	4	6	48
Exiting Leg							2							1							40							5	48
Total							27							15							43							11	96

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	3	2	5	0	0	0	0	3	1	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	10
7:15 AM	0	0	0	0	3	6	9	0	0	0	0	6	11	17	0	0	0	0	0	1	1	0	0	0	0	0	1	1	28
7:30 AM	0	0	0	0	1	0	1	0	0	0	0	10	11	21	0	0	0	0	0	5	5	0	0	0	0	14	1	15	42
7:45 AM	0	0	0	0	1	0	1	0	0	0	0	2	2	4	0	0	0	0	1	0	1	0	0	0	0	0	2	2	8
Total	0	0	0	0	8	8	16	0	0	0	0	21	25	46	0	0	0	0	1	6	7	0	0	0	0	14	5	19	88
8:00 AM	0	0	0	0	3	0	3	0	0	0	0	5	1	6	0	0	0	0	0	0	0	0	0	0	0	1	5	6	15
8:15 AM	0	0	0	0	5	4	9	0	0	0	0	8	0	8	0	0	0	0	1	5	6	0	0	0	0	2	6	8	31
8:30 AM	0	0	0	0	0	1	1	0	0	0	0	4	3	7	0	0	0	0	3	2	5	0	0	0	0	3	16	19	32
8:45 AM	0	0	0	0	3	0	3	0	0	0	0	7	0	7	0	0	0	0	13	0	13	0	0	0	0	2	18	20	43
Total	0	0	0	0	11	5	16	0	0	0	0	24	4	28	0	0	0	0	17	7	24	0	0	0	0	8	45	53	121
Grand Total	0	0	0	0	19	13	32	0	0	0	0	45	29	74	0	0	0	0	18	13	31	0	0	0	0	22	50	72	209
Approach %	0	0	0	0	59.4	40.6		0	0	0	0	60.8	39.2		0	0	0	0	58.1	41.9		0	0	0	0	30.6	69.4		
Total %	0	0	0	0	9.09	6.22	15.3	0	0	0	0	21.5	13.9	35.4	0	0	0	0	8.61	6.22	14.8	0	0	0	0	10.5	23.9	34.4	
Exiting Leg Total							32							74							31							72	209

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	3	0	3	0	0	0	0	5	1	6	0	0	0	0	0	0	0	0	0	0	0	1	5	6	15
8:15 AM	0	0	0	0	5	4	9	0	0	0	0	8	0	8	0	0	0	0	1	5	6	0	0	0	0	2	6	8	31
8:30 AM	0	0	0	0	0	1	1	0	0	0	0	4	3	7	0	0	0	0	3	2	5	0	0	0	0	3	16	19	32
8:45 AM	0	0	0	0	3	0	3	0	0	0	0	7	0	7	0	0	0	0	13	0	13	0	0	0	0	2	18	20	43
Total Volume	0	0	0	0	11	5	16	0	0	0	0	24	4	28	0	0	0	0	17	7	24	0	0	0	0	8	45	53	121
% Approach Total	0.0	0.0	0.0	0.0	68.8	31.3		0.0	0.0	0.0	0.0	85.7	14.3		0.0	0.0	0.0	0.0	70.8	29.2		0.0	0.0	0.0	0.0	15.1	84.9		
PHF	0.000	0.000	0.000	0.000	0.550	0.313	0.444	0.000	0.000	0.000	0.000	0.750	0.333	0.875	0.000	0.000	0.000	0.000	0.327	0.350	0.462	0.000	0.000	0.000	0.000	0.667	0.625	0.663	0.703
Entering Leg	0	0	0	0	11	5	16	0	0	0	0	24	4	28	0	0	0	0	17	7	24	0	0	0	0	8	45	53	121
Exiting Leg							16							28							24							53	121
Total							32							56							48							106	242

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	4	67	8	0	79	22	125	45	0	192	45	77	15	1	138	12	103	3	0	118	527
4:15 PM	3	53	9	0	65	9	115	42	0	166	31	73	34	0	138	18	94	2	0	114	483
4:30 PM	7	85	7	0	99	10	124	46	0	180	38	76	20	0	134	25	102	4	0	131	544
4:45 PM	7	56	6	0	69	19	124	47	0	190	33	73	26	0	132	16	110	3	0	129	520
Total	21	261	30	0	312	60	488	180	0	728	147	299	95	1	542	71	409	12	0	492	2074
5:00 PM	4	63	10	0	77	10	139	46	0	195	40	75	37	1	153	9	86	6	0	101	526
5:15 PM	8	90	6	0	104	7	129	43	0	179	48	104	32	1	185	28	93	0	0	121	589
5:30 PM	8	62	9	0	79	20	122	62	0	204	26	72	28	4	130	18	122	0	0	140	553
5:45 PM	5	73	11	0	89	21	86	46	0	153	36	115	21	1	173	16	114	0	0	130	545
Total	25	288	36	0	349	58	476	197	0	731	150	366	118	7	641	71	415	6	0	492	2213
Grand Total	46	549	66	0	661	118	964	377	0	1459	297	665	213	8	1183	142	824	18	0	984	4287
Approach %	7.0	83.1	10.0	0.0		8.1	66.1	25.8	0.0		25.1	56.2	18.0	0.7		14.4	83.7	1.8	0.0		
Total %	1.1	12.8	1.5	0.0	15.4	2.8	22.5	8.8	0.0	34.0	6.9	15.5	5.0	0.2	27.6	3.3	19.2	0.4	0.0	23.0	
Exiting Leg Total					801					1187					1076					1223	4287
Cars	46	536	64	0	646	115	947	372	0	1434	284	643	206	8	1141	138	803	18	0	959	4180
% Cars	100.0	97.6	97.0	0.0	97.7	97.5	98.2	98.7	0.0	98.3	95.6	96.7	96.7	100.0	96.4	97.2	97.5	100.0	0.0	97.5	97.5
Exiting Leg Total					776					1151					1054					1199	4180
Heavy Vehicles	0	13	2	0	15	3	17	5	0	25	13	22	7	0	42	4	21	0	0	25	107
% Heavy Vehicles	0.0	2.4	3.0	0.0	2.3	2.5	1.8	1.3	0.0	1.7	4.4	3.3	3.3	0.0	3.6	2.8	2.5	0.0	0.0	2.5	2.5
Exiting Leg Total					25					36					22					24	107

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
5:00 PM	4	63	10	0	77	10	139	46	0	195	40	75	37	1	153	9	86	6	0	101	526
5:15 PM	8	90	6	0	104	7	129	43	0	179	48	104	32	1	185	28	93	0	0	121	589
5:30 PM	8	62	9	0	79	20	122	62	0	204	26	72	28	4	130	18	122	0	0	140	553
5:45 PM	5	73	11	0	89	21	86	46	0	153	36	115	21	1	173	16	114	0	0	130	545
Total Volume	25	288	36	0	349	58	476	197	0	731	150	366	118	7	641	71	415	6	0	492	2213
% Approach Total	7.2	82.5	10.3	0.0		7.9	65.1	26.9	0.0		23.4	57.1	18.4	1.1		14.4	84.3	1.2	0.0		
PHF	0.781	0.800	0.818	0.000	0.839	0.690	0.856	0.794	0.000	0.896	0.781	0.796	0.797	0.438	0.866	0.634	0.850	0.250	0.000	0.879	0.939
Cars	25	284	35	0	344	57	472	194	0	723	148	357	114	7	626	69	410	6	0	485	2178
Cars %	100.0	98.6	97.2	0.0	98.6	98.3	99.2	98.5	0.0	98.9	98.7	97.5	96.6	100.0	97.7	97.2	98.8	100.0	0.0	98.6	98.4
Heavy Vehicles	0	4	1	0	5	1	4	3	0	8	2	9	4	0	15	2	5	0	0	7	35
Heavy Vehicles %	0.0	1.4	2.8	0.0	1.4	1.7	0.8	1.5	0.0	1.1	1.3	2.5	3.4	0.0	2.3	2.8	1.2	0.0	0.0	1.4	1.6
Cars Enter Leg	25	284	35	0	344	57	472	194	0	723	148	357	114	7	626	69	410	6	0	485	2178
Heavy Enter Leg	0	4	1	0	5	1	4	3	0	8	2	9	4	0	15	2	5	0	0	7	35
Total Entering Leg	25	288	36	0	349	58	476	197	0	731	150	366	118	7	641	71	415	6	0	492	2213
Cars Exiting Leg					420					593					554					611	2178
Heavy Exiting Leg					10					8					9					8	35
Total Exiting Leg					430					601					563					619	2213

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	4	65	8	0	77	22	122	44	0	188	42	73	15	1	131	12	102	3	0	117	513
4:15 PM	3	53	9	0	65	9	112	42	0	163	29	70	33	0	132	18	89	2	0	109	469
4:30 PM	7	81	6	0	94	10	120	46	0	176	35	73	18	0	126	23	96	4	0	123	519
4:45 PM	7	53	6	0	66	17	121	46	0	184	30	70	26	0	126	16	106	3	0	125	501
Total	21	252	29	0	302	58	475	178	0	711	136	286	92	1	515	69	393	12	0	474	2002
5:00 PM	4	62	10	0	76	10	137	45	0	192	39	71	36	1	147	8	85	6	0	99	514
5:15 PM	8	90	6	0	104	7	128	42	0	177	48	101	30	1	180	27	89	0	0	116	577
5:30 PM	8	60	8	0	76	20	121	61	0	202	25	71	27	4	127	18	122	0	0	140	545
5:45 PM	5	72	11	0	88	20	86	46	0	152	36	114	21	1	172	16	114	0	0	130	542
Total	25	284	35	0	344	57	472	194	0	723	148	357	114	7	626	69	410	6	0	485	2178
Grand Total	46	536	64	0	646	115	947	372	0	1434	284	643	206	8	1141	138	803	18	0	959	4180
Approach %	7.1	83.0	9.9	0.0		8.0	66.0	25.9	0.0		24.9	56.4	18.1	0.7		14.4	83.7	1.9	0.0		
Total %	1.1	12.8	1.5	0.0	15.5	2.8	22.7	8.9	0.0	34.3	6.8	15.4	4.9	0.2	27.3	3.3	19.2	0.4	0.0	22.9	
Exiting Leg Total					776					1151					1054					1199	4180

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
5:00 PM	4	62	10	0	76	10	137	45	0	192	39	71	36	1	147	8	85	6	0	99	514
5:15 PM	8	90	6	0	104	7	128	42	0	177	48	101	30	1	180	27	89	0	0	116	577
5:30 PM	8	60	8	0	76	20	121	61	0	202	25	71	27	4	127	18	122	0	0	140	545
5:45 PM	5	72	11	0	88	20	86	46	0	152	36	114	21	1	172	16	114	0	0	130	542
Total Volume	25	284	35	0	344	57	472	194	0	723	148	357	114	7	626	69	410	6	0	485	2178
% Approach Total	7.3	82.6	10.2	0.0		7.9	65.3	26.8	0.0		23.6	57.0	18.2	1.1		14.2	84.5	1.2	0.0		
PHF	0.781	0.789	0.795	0.000	0.827	0.713	0.861	0.795	0.000	0.895	0.771	0.783	0.792	0.438	0.869	0.639	0.840	0.250	0.000	0.866	0.944
Entering Leg	25	284	35	0	344	57	472	194	0	723	148	357	114	7	626	69	410	6	0	485	2178
Exiting Leg					420					593					554					611	2178
Total					764					1316					1180					1096	4356

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	2	0	0	2	0	3	1	0	4	3	4	0	0	7	0	1	0	0	1	14
4:15 PM	0	0	0	0	0	0	3	0	0	3	2	3	1	0	6	0	5	0	0	5	14
4:30 PM	0	4	1	0	5	0	4	0	0	4	3	3	2	0	8	2	6	0	0	8	25
4:45 PM	0	3	0	0	3	2	3	1	0	6	3	3	0	0	6	0	4	0	0	4	19
Total	0	9	1	0	10	2	13	2	0	17	11	13	3	0	27	2	16	0	0	18	72
5:00 PM	0	1	0	0	1	0	2	1	0	3	1	4	1	0	6	1	1	0	0	2	12
5:15 PM	0	0	0	0	0	0	1	1	0	2	0	3	2	0	5	1	4	0	0	5	12
5:30 PM	0	2	1	0	3	0	1	1	0	2	1	1	1	0	3	0	0	0	0	0	8
5:45 PM	0	1	0	0	1	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	3
Total	0	4	1	0	5	1	4	3	0	8	2	9	4	0	15	2	5	0	0	7	35
Grand Total	0	13	2	0	15	3	17	5	0	25	13	22	7	0	42	4	21	0	0	25	107
Approach %	0.0	86.7	13.3	0.0		12.0	68.0	20.0	0.0		31.0	52.4	16.7	0.0		16.0	84.0	0.0	0.0		
Total %	0.0	12.1	1.9	0.0	14.0	2.8	15.9	4.7	0.0	23.4	12.1	20.6	6.5	0.0	39.3	3.7	19.6	0.0	0.0	23.4	
Exiting Leg Total					25					36					22					24	107
Buses	0	6	2	0	8	2	7	1	0	10	9	5	0	0	14	0	12	0	0	12	44
% Buses	0.0	46.2	100.0	0.0	53.3	66.7	41.2	20.0	0.0	40.0	69.2	22.7	0.0	0.0	33.3	0.0	57.1	0.0	0.0	48.0	41.1
Exiting Leg Total					7					23					7					7	44
Single-Unit Trucks	0	6	0	0	6	1	10	4	0	15	3	15	6	0	24	3	9	0	0	12	57
% Single-Unit	0.0	46.2	0.0	0.0	40.0	33.3	58.8	80.0	0.0	60.0	23.1	68.2	85.7	0.0	57.1	75.0	42.9	0.0	0.0	48.0	53.3
Exiting Leg Total					16					12					13					16	57
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	1	2	1	0	4	1	0	0	0	1	6
% Articulated	0.0	7.7	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	7.7	9.1	14.3	0.0	9.5	25.0	0.0	0.0	0.0	4.0	5.6
Exiting Leg Total					2					1					2					1	6

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	2	0	0	2	0	3	1	0	4	3	4	0	0	7	0	1	0	0	1	14
4:15 PM	0	0	0	0	0	0	3	0	0	3	2	3	1	0	6	0	5	0	0	5	14
4:30 PM	0	4	1	0	5	0	4	0	0	4	3	3	2	0	8	2	6	0	0	8	25
4:45 PM	0	3	0	0	3	2	3	1	0	6	3	3	0	0	6	0	4	0	0	4	19
Total Volume	0	9	1	0	10	2	13	2	0	17	11	13	3	0	27	2	16	0	0	18	72
% Approach Total	0.0	90.0	10.0	0.0		11.8	76.5	11.8	0.0		40.7	48.1	11.1	0.0		11.1	88.9	0.0	0.0		
PHF	0.000	0.563	0.250	0.000	0.500	0.250	0.813	0.500	0.000	0.708	0.917	0.813	0.375	0.000	0.844	0.250	0.667	0.000	0.000	0.563	0.720
Buses	0	4	1	0	5	1	5	0	0	6	8	2	0	0	10	0	11	0	0	11	32
Buses %	0.0	44.4	100.0	0.0	50.0	50.0	38.5	0.0	0.0	35.3	72.7	15.4	0.0	0.0	37.0	0.0	68.8	0.0	0.0	61.1	44.4
Single-Unit Trucks	0	4	0	0	4	1	8	2	0	11	2	10	2	0	14	1	5	0	0	6	35
Single-Unit %	0.0	44.4	0.0	0.0	40.0	50.0	61.5	100.0	0.0	64.7	18.2	76.9	66.7	0.0	51.9	50.0	31.3	0.0	0.0	33.3	48.6
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	1	1	1	0	3	1	0	0	0	1	5
Articulated %	0.0	11.1	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	9.1	7.7	33.3	0.0	11.1	50.0	0.0	0.0	0.0	5.6	6.9
Buses	0	4	1	0	5	1	5	0	0	6	8	2	0	0	10	0	11	0	0	11	32
Single-Unit Trucks	0	4	0	0	4	1	8	2	0	11	2	10	2	0	14	1	5	0	0	6	35
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	1	1	1	0	3	1	0	0	0	1	5
Total Entering Leg	0	9	1	0	10	2	13	2	0	17	11	13	3	0	27	2	16	0	0	18	72
Buses					3					20					4					5	32
Single-Unit Trucks					11					7					7					10	35
Articulated Trucks					1					1					2					1	5
Total Exiting Leg					15					28					13					16	72

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	1	0	0	1	2	1	0	0	3	0	2	0	0	2	6
4:30 PM	0	2	1	0	3	0	2	0	0	2	2	1	0	0	3	0	6	0	0	6	14
4:45 PM	0	1	0	0	1	1	2	0	0	3	3	0	0	0	3	0	3	0	0	3	10
Total	0	4	1	0	5	1	5	0	0	6	8	2	0	0	10	0	11	0	0	11	32
5:00 PM	0	0	0	0	0	0	1	1	0	2	1	2	0	0	3	0	0	0	0	0	5
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
5:30 PM	0	1	1	0	2	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0	4
5:45 PM	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
Total	0	2	1	0	3	1	2	1	0	4	1	3	0	0	4	0	1	0	0	1	12
Grand Total	0	6	2	0	8	2	7	1	0	10	9	5	0	0	14	0	12	0	0	12	44
Approach %	0.0	75.0	25.0	0.0		20.0	70.0	10.0	0.0		64.3	35.7	0.0	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	13.6	4.5	0.0	18.2	4.5	15.9	2.3	0.0	22.7	20.5	11.4	0.0	0.0	31.8	0.0	27.3	0.0	0.0	27.3	
Exiting Leg Total					7					23					7					7	44

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	0	0	1	0	0	1	2	1	0	0	3	0	2	0	0	2	6
4:30 PM	0	2	1	0	3	0	2	0	0	2	2	1	0	0	3	0	6	0	0	6	14
4:45 PM	0	1	0	0	1	1	2	0	0	3	3	0	0	0	3	0	3	0	0	3	10
5:00 PM	0	0	0	0	0	0	1	1	0	2	1	2	0	0	3	0	0	0	0	0	5
Total Volume	0	3	1	0	4	1	6	1	0	8	8	4	0	0	12	0	11	0	0	11	35
% Approach Total	0.0	75.0	25.0	0.0		12.5	75.0	12.5	0.0		66.7	33.3	0.0	0.0		0.0	100.0	0.0	0.0		
PHF	0.000	0.375	0.250	0.000	0.333	0.250	0.750	0.250	0.000	0.667	0.667	0.500	0.000	0.000	1.000	0.000	0.458	0.000	0.000	0.458	0.625
Entering Leg	0	3	1	0	4	1	6	1	0	8	8	4	0	0	12	0	11	0	0	11	35
Exiting Leg					5					20					4					6	35
Total					9					28					16					17	70

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Single-Unit Trucks

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	3	1	0	4	1	3	0	0	4	0	1	0	0	1	10
4:15 PM	0	0	0	0	0	0	2	0	0	2	0	2	1	0	3	0	3	0	0	3	8
4:30 PM	0	1	0	0	1	0	2	0	0	2	1	2	1	0	4	1	0	0	0	1	8
4:45 PM	0	2	0	0	2	1	1	1	0	3	0	3	0	0	3	0	1	0	0	1	9
Total	0	4	0	0	4	1	8	2	0	11	2	10	2	0	14	1	5	0	0	6	35
5:00 PM	0	1	0	0	1	0	1	0	0	1	0	1	1	0	2	1	1	0	0	2	6
5:15 PM	0	0	0	0	0	0	1	1	0	2	0	3	2	0	5	1	3	0	0	4	11
5:30 PM	0	1	0	0	1	0	0	1	0	1	1	0	1	0	2	0	0	0	0	0	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	2	0	0	2	0	2	2	0	4	1	5	4	0	10	2	4	0	0	6	22
Grand Total	0	6	0	0	6	1	10	4	0	15	3	15	6	0	24	3	9	0	0	12	57
Approach %	0.0	100.0	0.0	0.0		6.7	66.7	26.7	0.0		12.5	62.5	25.0	0.0		25.0	75.0	0.0	0.0		
Total %	0.0	10.5	0.0	0.0	10.5	1.8	17.5	7.0	0.0	26.3	5.3	26.3	10.5	0.0	42.1	5.3	15.8	0.0	0.0	21.1	
Exiting Leg Total					16					12					13					16	57

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	3	1	0	4	1	3	0	0	4	0	1	0	0	1	10
4:15 PM	0	0	0	0	0	0	2	0	0	2	0	2	1	0	3	0	3	0	0	3	8
4:30 PM	0	1	0	0	1	0	2	0	0	2	1	2	1	0	4	1	0	0	0	1	8
4:45 PM	0	2	0	0	2	1	1	1	0	3	0	3	0	0	3	0	1	0	0	1	9
Total Volume	0	4	0	0	4	1	8	2	0	11	2	10	2	0	14	1	5	0	0	6	35
% Approach Total	0.0	100.0	0.0	0.0		9.1	72.7	18.2	0.0		14.3	71.4	14.3	0.0		16.7	83.3	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.250	0.667	0.500	0.000	0.688	0.500	0.833	0.500	0.000	0.875	0.250	0.417	0.000	0.000	0.500	0.875
Entering Leg	0	4	0	0	4	1	8	2	0	11	2	10	2	0	14	1	5	0	0	6	35
Exiting Leg					11					7					7					10	35
Total					15					18					21					16	70

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	1	1	1	0	3	1	0	0	0	1	5
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Grand Total	0	1	0	0	1	0	0	0	0	0	1	2	1	0	4	1	0	0	0	1	6
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		25.0	50.0	25.0	0.0		100.0	0.0	0.0	0.0		
Total %	0.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	16.7	33.3	16.7	0.0	66.7	16.7	0.0	0.0	0.0	16.7	
Exiting Leg Total					2					1					2					1	6

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North					Washington Street from East					Walnut Street from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	3
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	0	0	1	0	0	0	0	0	1	1	1	0	3	1	0	0	0	1	5
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		33.3	33.3	33.3	0.0		100.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.000	0.375	0.250	0.000	0.000	0.000	0.250	0.417
Entering Leg	0	1	0	0	1	0	0	0	0	0	1	1	1	0	3	1	0	0	0	1	5
Exiting Leg					1					1					2					1	5
Total					2					1					5					2	10

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	2	0	0	0	1	3	0	0	0	0	0	0	0	0	4	0	0	0	0	4	1	0	0	0	1	0	2	9
4:15 PM	0	1	0	0	0	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	2	6
4:30 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	2	0	2	7
4:45 PM	1	1	0	0	1	1	4	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	7
Total	1	7	0	0	1	4	13	0	0	0	0	0	0	0	0	9	0	0	0	1	10	1	0	0	0	3	2	6	29
5:00 PM	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:15 PM	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	0	0	0	4	0	5	8
5:30 PM	1	0	0	0	1	0	2	0	1	0	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	0	0	1	5
5:45 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	4
Total	1	4	0	0	2	0	7	0	1	1	0	0	0	2	0	3	0	0	0	0	3	2	1	0	0	4	0	7	19
Grand Total	2	11	0	0	3	4	20	0	1	1	0	0	0	2	0	12	0	0	0	1	13	3	1	0	0	7	2	13	48
Approach %	10.0	55.0	0.0	0.0	15.0	20.0		0.0	50.0	50.0	0.0	0.0	0.0		0.0	92.3	0.0	0.0	0.0	7.7		23.1	7.7	0.0	0.0	53.8	15.4		
Total %	4.2	22.9	0.0	0.0	6.3	8.3	41.7	0.0	2.1	2.1	0.0	0.0	0.0	4.2	0.0	25.0	0.0	0.0	0.0	2.1	27.1	6.3	2.1	0.0	0.0	14.6	4.2	27.1	
Exiting Leg Total							19							1							16							12	48

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	2	0	0	0	1	3	0	0	0	0	0	0	0	0	4	0	0	0	0	4	1	0	0	0	1	0	2	9
4:15 PM	0	1	0	0	0	2	3	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	2	6
4:30 PM	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	2	0	2	7
4:45 PM	1	1	0	0	1	1	4	0	0	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	7
Total Volume	1	7	0	0	1	4	13	0	0	0	0	0	0	0	0	9	0	0	0	1	10	1	0	0	0	3	2	6	29
% Approach Total	7.7	53.8	0.0	0.0	7.7	30.8		0.0	0.0	0.0	0.0	0.0	0.0		0.0	90.0	0.0	0.0	0.0	10.0		16.7	0.0	0.0	0.0	50.0	33.3		
PHF	0.250	0.583	0.000	0.000	0.250	0.500	0.813	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.563	0.000	0.000	0.000	0.250	0.625	0.250	0.000	0.000	0.000	0.375	0.250	0.750	0.806
Entering Leg	1	7	0	0	1	4	13	0	0	0	0	0	0	0	0	9	0	0	0	1	10	1	0	0	0	3	2	6	29
Exiting Leg							14							0							9							6	29
Total							27							0							19							12	58

PDI File #: **228976 A**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	21	2	23	0	0	0	0	8	13	21	0	0	0	0	1	1	2	0	0	0	0	55	4	59	105
4:15 PM	0	0	0	0	0	7	7	0	0	0	0	11	7	18	0	0	0	0	0	5	5	0	0	0	0	11	12	23	53
4:30 PM	0	0	0	0	3	3	6	0	0	0	0	2	7	9	0	0	0	0	0	1	1	0	0	0	0	5	4	9	25
4:45 PM	0	0	0	0	3	13	16	0	0	0	0	4	14	18	0	0	0	0	2	2	4	0	0	0	0	13	6	19	57
Total	0	0	0	0	27	25	52	0	0	0	0	25	41	66	0	0	0	0	3	9	12	0	0	0	0	84	26	110	240
5:00 PM	0	0	0	0	4	8	12	0	0	0	0	2	2	4	0	0	0	0	1	2	3	0	0	0	0	12	7	19	38
5:15 PM	0	0	0	0	4	6	10	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	7	10	21
5:30 PM	0	0	0	0	9	9	18	0	0	0	0	3	3	6	0	0	0	0	2	4	6	0	0	0	0	3	6	9	39
5:45 PM	0	0	0	0	2	3	5	0	0	0	0	1	3	4	0	0	0	0	3	1	4	0	0	0	0	7	3	10	23
Total	0	0	0	0	19	26	45	0	0	0	0	6	9	15	0	0	0	0	6	7	13	0	0	0	0	25	23	48	121
Grand Total	0	0	0	0	46	51	97	0	0	0	0	31	50	81	0	0	0	0	9	16	25	0	0	0	0	109	49	158	361
Approach %	0	0	0	0	47.4	52.6		0	0	0	0	38.3	61.7		0	0	0	0	36	64		0	0	0	0	69	31		
Total %	0	0	0	0	12.7	14.1	26.9	0	0	0	0	8.59	13.9	22.4	0	0	0	0	2.49	4.43	6.93	0	0	0	0	30.2	13.6	43.8	
Exiting Leg Total							97							81							25							158	361

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North							Washington Street from East							Walnut Street from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	21	2	23	0	0	0	0	8	13	21	0	0	0	0	1	1	2	0	0	0	0	55	4	59	105
4:15 PM	0	0	0	0	0	7	7	0	0	0	0	11	7	18	0	0	0	0	0	5	5	0	0	0	0	11	12	23	53
4:30 PM	0	0	0	0	3	3	6	0	0	0	0	2	7	9	0	0	0	0	0	1	1	0	0	0	0	5	4	9	25
4:45 PM	0	0	0	0	3	13	16	0	0	0	0	4	14	18	0	0	0	0	2	2	4	0	0	0	0	13	6	19	57
Total Volume	0	0	0	0	27	25	52	0	0	0	0	25	41	66	0	0	0	0	3	9	12	0	0	0	0	84	26	110	240
% Approach Total	0.0	0.0	0.0	0.0	51.9	48.1		0.0	0.0	0.0	0.0	37.9	62.1		0.0	0.0	0.0	0.0	25.0	75.0		0.0	0.0	0.0	0.0	76.4	23.6		
PHF	0.000	0.000	0.000	0.000	0.321	0.481	0.565	0.000	0.000	0.000	0.000	0.568	0.732	0.786	0.000	0.000	0.000	0.000	0.375	0.450	0.600	0.000	0.000	0.000	0.000	0.382	0.542	0.466	0.571
Entering Leg	0	0	0	0	27	25	52	0	0	0	0	25	41	66	0	0	0	0	3	9	12	0	0	0	0	84	26	110	240
Exiting Leg							52							66							12							110	240
Total							104							132							24							220	480

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	2	14	1	0	17	1	38	5	0	44	18	24	8	0	50	15	80	3	0	98	209
7:15 AM	2	25	1	0	28	0	45	15	0	60	33	36	10	0	79	27	83	3	0	113	280
7:30 AM	2	31	1	0	34	3	45	11	0	59	43	31	23	0	97	40	122	4	0	166	356
7:45 AM	7	54	2	1	64	1	79	11	0	91	42	46	22	0	110	56	166	4	0	226	491
Total	13	124	5	1	143	5	207	42	0	254	136	137	63	0	336	138	451	14	0	603	1336
8:00 AM	4	39	3	0	46	2	62	14	0	78	36	33	16	0	85	45	137	2	0	184	393
8:15 AM	2	5	2	0	9	2	82	16	0	100	61	13	28	0	102	59	134	5	0	198	409
8:30 AM	0	0	0	0	0	0	78	32	0	110	69	0	35	0	104	86	111	0	0	197	411
8:45 AM	0	1	0	0	1	0	59	27	0	86	74	5	38	0	117	98	105	0	0	203	407
Total	6	45	5	0	56	4	281	89	0	374	240	51	117	0	408	288	487	7	0	782	1620
Grand Total	19	169	10	1	199	9	488	131	0	628	376	188	180	0	744	426	938	21	0	1385	2956
Approach %	9.5	84.9	5.0	0.5		1.4	77.7	20.9	0.0		50.5	25.3	24.2	0.0		30.8	67.7	1.5	0.0		
Total %	0.6	5.7	0.3	0.0	6.7	0.3	16.5	4.4	0.0	21.2	12.7	6.4	6.1	0.0	25.2	14.4	31.7	0.7	0.0	46.9	
Exiting Leg Total					219					1324					726					687	2956
Cars	19	161	8	1	189	8	466	126	0	600	368	183	176	0	727	414	905	20	0	1339	2855
% Cars	100.0	95.3	80.0	100.0	95.0	88.9	95.5	96.2	0.0	95.5	97.9	97.3	97.8	0.0	97.7	97.2	96.5	95.2	0.0	96.7	96.6
Exiting Leg Total					212					1281					701					661	2855
Heavy Vehicles	0	8	2	0	10	1	22	5	0	28	8	5	4	0	17	12	33	1	0	46	101
% Heavy Vehicles	0.0	4.7	20.0	0.0	5.0	11.1	4.5	3.8	0.0	4.5	2.1	2.7	2.2	0.0	2.3	2.8	3.5	4.8	0.0	3.3	3.4
Exiting Leg Total					7					43					25					26	101

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	7	54	2	1	64	1	79	11	0	91	42	46	22	0	110	56	166	4	0	226	491
8:00 AM	4	39	3	0	46	2	62	14	0	78	36	33	16	0	85	45	137	2	0	184	393
8:15 AM	2	5	2	0	9	2	82	16	0	100	61	13	28	0	102	59	134	5	0	198	409
8:30 AM	0	0	0	0	0	0	78	32	0	110	69	0	35	0	104	86	111	0	0	197	411
Total Volume	13	98	7	1	119	5	301	73	0	379	208	92	101	0	401	246	548	11	0	805	1704
% Approach Total	10.9	82.4	5.9	0.8		1.3	79.4	19.3	0.0		51.9	22.9	25.2	0.0		30.6	68.1	1.4	0.0		
PHF	0.464	0.454	0.583	0.250	0.465	0.625	0.918	0.570	0.000	0.861	0.754	0.500	0.721	0.000	0.911	0.715	0.825	0.550	0.000	0.890	0.868
Cars	13	92	6	1	112	5	292	69	0	366	201	91	98	0	390	240	528	11	0	779	1647
Cars %	100.0	93.9	85.7	100.0	94.1	100.0	97.0	94.5	0.0	96.6	96.6	98.9	97.0	0.0	97.3	97.6	96.4	100.0	0.0	96.8	96.7
Heavy Vehicles	0	6	1	0	7	0	9	4	0	13	7	1	3	0	11	6	20	0	0	26	57
Heavy Vehicles %	0.0	6.1	14.3	0.0	5.9	0.0	3.0	5.5	0.0	3.4	3.4	1.1	3.0	0.0	2.7	2.4	3.6	0.0	0.0	3.2	3.3
Cars Enter Leg	13	92	6	1	112	5	292	69	0	366	201	91	98	0	390	240	528	11	0	779	1647
Heavy Enter Leg	0	6	1	0	7	0	9	4	0	13	7	1	3	0	11	6	20	0	0	26	57
Total Entering Leg	13	98	7	1	119	5	301	73	0	379	208	92	101	0	401	246	548	11	0	805	1704
Cars Exiting Leg					108					735					401					403	1647
Heavy Exiting Leg					1					28					16					12	57
Total Exiting Leg					109					763					417					415	1704

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	2	14	1	0	17	1	37	5	0	43	18	23	8	0	49	14	77	3	0	94	203
7:15 AM	2	25	0	0	27	0	41	14	0	55	33	33	9	0	75	26	82	3	0	111	268
7:30 AM	2	29	1	0	32	2	39	11	0	52	43	31	23	0	97	39	119	3	0	161	342
7:45 AM	7	50	2	1	60	1	77	11	0	89	40	45	22	0	107	53	163	4	0	220	476
Total	13	118	4	1	136	4	194	41	0	239	134	132	62	0	328	132	441	13	0	586	1289
8:00 AM	4	38	2	0	44	2	59	14	0	75	35	33	16	0	84	45	133	2	0	180	383
8:15 AM	2	4	2	0	8	2	81	16	0	99	59	13	26	0	98	59	125	5	0	189	394
8:30 AM	0	0	0	0	0	0	75	28	0	103	67	0	34	0	101	83	107	0	0	190	394
8:45 AM	0	1	0	0	1	0	57	27	0	84	73	5	38	0	116	95	99	0	0	194	395
Total	6	43	4	0	53	4	272	85	0	361	234	51	114	0	399	282	464	7	0	753	1566
Grand Total	19	161	8	1	189	8	466	126	0	600	368	183	176	0	727	414	905	20	0	1339	2855
Approach %	10.1	85.2	4.2	0.5		1.3	77.7	21.0	0.0		50.6	25.2	24.2	0.0		30.9	67.6	1.5	0.0		
Total %	0.7	5.6	0.3	0.0	6.6	0.3	16.3	4.4	0.0	21.0	12.9	6.4	6.2	0.0	25.5	14.5	31.7	0.7	0.0	46.9	
Exiting Leg Total					212					1281					701					661	2855

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	7	50	2	1	60	1	77	11	0	89	40	45	22	0	107	53	163	4	0	220	476
8:00 AM	4	38	2	0	44	2	59	14	0	75	35	33	16	0	84	45	133	2	0	180	383
8:15 AM	2	4	2	0	8	2	81	16	0	99	59	13	26	0	98	59	125	5	0	189	394
8:30 AM	0	0	0	0	0	0	75	28	0	103	67	0	34	0	101	83	107	0	0	190	394
Total Volume	13	92	6	1	112	5	292	69	0	366	201	91	98	0	390	240	528	11	0	779	1647
% Approach Total	11.6	82.1	5.4	0.9		1.4	79.8	18.9	0.0		51.5	23.3	25.1	0.0		30.8	67.8	1.4	0.0		
PHF	0.464	0.460	0.750	0.250	0.467	0.625	0.901	0.616	0.000	0.888	0.750	0.506	0.721	0.000	0.911	0.723	0.810	0.550	0.000	0.885	0.865
Entering Leg	13	92	6	1	112	5	292	69	0	366	201	91	98	0	390	240	528	11	0	779	1647
Exiting Leg					108					735					401					403	1647
Total					220					1101					791					1182	3294

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	1	3	0	0	4	6
7:15 AM	0	0	1	0	1	0	4	1	0	5	0	3	1	0	4	1	1	0	0	2	12
7:30 AM	0	2	0	0	2	1	6	0	0	7	0	0	0	0	0	1	3	1	0	5	14
7:45 AM	0	4	0	0	4	0	2	0	0	2	2	1	0	0	3	3	3	0	0	6	15
Total	0	6	1	0	7	1	13	1	0	15	2	5	1	0	8	6	10	1	0	17	47
8:00 AM	0	1	1	0	2	0	3	0	0	3	1	0	0	0	1	0	4	0	0	4	10
8:15 AM	0	1	0	0	1	0	1	0	0	1	2	0	2	0	4	0	9	0	0	9	15
8:30 AM	0	0	0	0	0	0	3	4	0	7	2	0	1	0	3	3	4	0	0	7	17
8:45 AM	0	0	0	0	0	0	2	0	0	2	1	0	0	0	1	3	6	0	0	9	12
Total	0	2	1	0	3	0	9	4	0	13	6	0	3	0	9	6	23	0	0	29	54
Grand Total	0	8	2	0	10	1	22	5	0	28	8	5	4	0	17	12	33	1	0	46	101
Approach %	0.0	80.0	20.0	0.0		3.6	78.6	17.9	0.0		47.1	29.4	23.5	0.0		26.1	71.7	2.2	0.0		
Total %	0.0	7.9	2.0	0.0	9.9	1.0	21.8	5.0	0.0	27.7	7.9	5.0	4.0	0.0	16.8	11.9	32.7	1.0	0.0	45.5	
Exiting Leg Total					7					43					25					26	101
Buses	0	2	0	0	2	0	7	2	0	9	1	0	0	0	1	3	6	1	0	10	22
% Buses	0.0	25.0	0.0	0.0	20.0	0.0	31.8	40.0	0.0	32.1	12.5	0.0	0.0	0.0	5.9	25.0	18.2	100.0	0.0	21.7	21.8
Exiting Leg Total					1					7					7					7	22
Single-Unit Trucks	0	3	1	0	4	1	14	3	0	18	6	5	2	0	13	8	25	0	0	33	68
% Single-Unit	0.0	37.5	50.0	0.0	40.0	100.0	63.6	60.0	0.0	64.3	75.0	100.0	50.0	0.0	76.5	66.7	75.8	0.0	0.0	71.7	67.3
Exiting Leg Total					6					32					14					16	68
Articulated Trucks	0	3	1	0	4	0	1	0	0	1	1	0	2	0	3	1	2	0	0	3	11
% Articulated	0.0	37.5	50.0	0.0	40.0	0.0	4.5	0.0	0.0	3.6	12.5	0.0	50.0	0.0	17.6	8.3	6.1	0.0	0.0	6.5	10.9
Exiting Leg Total					0					4					4					3	11

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	0	4	0	0	4	0	2	0	0	2	2	1	0	0	3	3	3	0	0	6	15
8:00 AM	0	1	1	0	2	0	3	0	0	3	1	0	0	0	1	0	4	0	0	4	10
8:15 AM	0	1	0	0	1	0	1	0	0	1	2	0	2	0	4	0	9	0	0	9	15
8:30 AM	0	0	0	0	0	0	3	4	0	7	2	0	1	0	3	3	4	0	0	7	17
Total Volume	0	6	1	0	7	0	9	4	0	13	7	1	3	0	11	6	20	0	0	26	57
% Approach Total	0.0	85.7	14.3	0.0		0.0	69.2	30.8	0.0		63.6	9.1	27.3	0.0		23.1	76.9	0.0	0.0		
PHF	0.000	0.375	0.250	0.000	0.438	0.000	0.750	0.250	0.000	0.464	0.875	0.250	0.375	0.000	0.688	0.500	0.556	0.000	0.000	0.722	0.838
Buses	0	1	0	0	1	0	1	2	0	3	1	0	0	0	1	2	5	0	0	7	12
Buses %	0.0	16.7	0.0	0.0	14.3	0.0	11.1	50.0	0.0	23.1	14.3	0.0	0.0	0.0	9.1	33.3	25.0	0.0	0.0	26.9	21.1
Single-Unit Trucks	0	3	0	0	3	0	7	2	0	9	6	1	2	0	9	3	14	0	0	17	38
Single-Unit %	0.0	50.0	0.0	0.0	42.9	0.0	77.8	50.0	0.0	69.2	85.7	100.0	66.7	0.0	81.8	50.0	70.0	0.0	0.0	65.4	66.7
Articulated Trucks	0	2	1	0	3	0	1	0	0	1	0	0	1	0	1	1	1	0	0	2	7
Articulated %	0.0	33.3	100.0	0.0	42.9	0.0	11.1	0.0	0.0	7.7	0.0	0.0	33.3	0.0	9.1	16.7	5.0	0.0	0.0	7.7	12.3
Buses	0	1	0	0	1	0	1	2	0	3	1	0	0	0	1	2	5	0	0	7	12
Single-Unit Trucks	0	3	0	0	3	0	7	2	0	9	6	1	2	0	9	3	14	0	0	17	38
Articulated Trucks	0	2	1	0	3	0	1	0	0	1	0	0	1	0	1	1	1	0	0	2	7
Total Entering Leg	0	6	1	0	7	0	9	4	0	13	7	1	3	0	11	6	20	0	0	26	57
Buses					0					6					5					1	12
Single-Unit Trucks					1					20					8					9	38
Articulated Trucks					0					2					3					2	7
Total Exiting Leg					1					28					16					12	57

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	1	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	6
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
Total	0	2	0	0	2	0	5	0	0	5	0	0	0	0	0	1	1	1	0	3	10
8:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	5
8:30 AM	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	1	1	0	0	2	4
8:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	2
Total	0	0	0	0	0	0	2	2	0	4	1	0	0	0	1	2	5	0	0	7	12
Grand Total	0	2	0	0	2	0	7	2	0	9	1	0	0	0	1	3	6	1	0	10	22
Approach %	0.0	100.0	0.0	0.0		0.0	77.8	22.2	0.0		100.0	0.0	0.0	0.0		30.0	60.0	10.0	0.0		
Total %	0.0	9.1	0.0	0.0	9.1	0.0	31.8	9.1	0.0	40.9	4.5	0.0	0.0	0.0	4.5	13.6	27.3	4.5	0.0	45.5	
Exiting Leg Total					1					7					7					7	22

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:30 AM	0	1	0	0	1	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	6
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2
8:00 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	4	0	0	4	5
Total Volume	0	2	0	0	2	0	4	0	0	4	1	0	0	0	1	1	5	1	0	7	14
% Approach Total	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		14.3	71.4	14.3	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.333	0.000	0.000	0.333	0.250	0.000	0.000	0.000	0.250	0.250	0.313	0.250	0.000	0.438	0.583
Entering Leg	0	2	0	0	2	0	4	0	0	4	1	0	0	0	1	1	5	1	0	7	14
Exiting Leg					1					6					3					4	14
Total					3					10					4					11	28

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1	3	0	0	4	5
7:15 AM	0	0	1	0	1	0	3	1	0	4	0	3	0	0	3	1	1	0	0	2	10
7:30 AM	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	1	2	0	0	3	7
7:45 AM	0	1	0	0	1	0	2	0	0	2	2	1	0	0	3	2	3	0	0	5	11
Total	0	1	1	0	2	1	8	1	0	10	2	5	0	0	7	5	9	0	0	14	33
8:00 AM	0	1	0	0	1	0	2	0	0	2	1	0	0	0	1	0	4	0	0	4	8
8:15 AM	0	1	0	0	1	0	1	0	0	1	1	0	1	0	2	0	5	0	0	5	9
8:30 AM	0	0	0	0	0	0	2	2	0	4	2	0	1	0	3	1	2	0	0	3	10
8:45 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2	5	0	0	7	8
Total	0	2	0	0	2	0	6	2	0	8	4	0	2	0	6	3	16	0	0	19	35
Grand Total	0	3	1	0	4	1	14	3	0	18	6	5	2	0	13	8	25	0	0	33	68
Approach %	0.0	75.0	25.0	0.0		5.6	77.8	16.7	0.0		46.2	38.5	15.4	0.0		24.2	75.8	0.0	0.0		
Total %	0.0	4.4	1.5	0.0	5.9	1.5	20.6	4.4	0.0	26.5	8.8	7.4	2.9	0.0	19.1	11.8	36.8	0.0	0.0	48.5	
Exiting Leg Total					6					32					14					16	68

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	0	1	0	0	1	0	2	0	0	2	2	1	0	0	3	2	3	0	0	5	11
8:00 AM	0	1	0	0	1	0	2	0	0	2	1	0	0	0	1	0	4	0	0	4	8
8:15 AM	0	1	0	0	1	0	1	0	0	1	1	0	1	0	2	0	5	0	0	5	9
8:30 AM	0	0	0	0	0	0	2	2	0	4	2	0	1	0	3	1	2	0	0	3	10
Total Volume	0	3	0	0	3	0	7	2	0	9	6	1	2	0	9	3	14	0	0	17	38
% Approach Total	0.0	100.0	0.0	0.0		0.0	77.8	22.2	0.0		66.7	11.1	22.2	0.0		17.6	82.4	0.0	0.0		
PHF	0.000	0.750	0.000	0.000	0.750	0.000	0.875	0.250	0.000	0.563	0.750	0.250	0.500	0.000	0.750	0.375	0.700	0.000	0.000	0.850	0.864
Entering Leg	0	3	0	0	3	0	7	2	0	9	6	1	2	0	9	3	14	0	0	17	38
Exiting Leg					1					20					8					9	38
Total					4					29					17					26	76

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Articulated Trucks**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	3	0	0	3	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	4
8:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	3
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	2
Total	0	0	1	0	1	0	1	0	0	1	1	0	1	0	2	1	2	0	0	3	7
Grand Total	0	3	1	0	4	0	1	0	0	1	1	0	2	0	3	1	2	0	0	3	11
Approach %	0.0	75.0	25.0	0.0		0.0	100.0	0.0	0.0		33.3	0.0	66.7	0.0		33.3	66.7	0.0	0.0		
Total %	0.0	27.3	9.1	0.0	36.4	0.0	9.1	0.0	0.0	9.1	9.1	0.0	18.2	0.0	27.3	9.1	18.2	0.0	0.0	27.3	
Exiting Leg Total					0					4					4					3	11

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	1	0	0	2	3
Total Volume	0	2	1	0	3	0	1	0	0	1	0	0	1	0	1	1	1	0	0	2	7
% Approach Total	0.0	66.7	33.3	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		50.0	50.0	0.0	0.0		
PHF	0.000	0.250	0.250	0.000	0.375	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.250	0.250	0.250	0.000	0.000	0.250	0.583
Entering Leg	0	2	1	0	3	0	1	0	0	1	0	0	1	0	1	1	1	0	0	2	7
Exiting Leg					0					2					3					2	7
Total					3					3					4					4	14

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1
7:30 AM	1	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	0	3	6
7:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	2	0	2	4
Total	1	0	0	0	0	1	2	0	1	0	0	0	1	2	0	2	0	0	0	0	2	0	0	0	0	5	0	5	11
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	2	4
8:30 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	1	3	4
Total	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	2	0	0	0	1	3	0	2	0	0	0	3	5	10
Grand Total	1	1	0	0	1	1	4	0	1	0	0	0	1	2	0	4	0	0	0	1	5	0	2	0	0	5	3	10	21
Approach %	25.0	25.0	0.0	0.0	25.0	25.0		0.0	50.0	0.0	0.0	0.0	50.0		0.0	80.0	0.0	0.0	0.0	20.0		0.0	20.0	0.0	0.0	50.0	30.0		
Total %	4.8	4.8	0.0	0.0	4.8	4.8	19.0	0.0	4.8	0.0	0.0	0.0	4.8	9.5	0.0	19.0	0.0	0.0	0.0	4.8	23.8	0.0	9.5	0.0	0.0	23.8	14.3	47.6	
Exiting Leg Total							6							3							2							10	21

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:30 AM	1	0	0	0	0	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	3	0	3	6
7:45 AM	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	2	0	2	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	2	4
Total Volume	1	0	0	0	1	1	3	0	1	0	0	0	1	2	0	2	0	0	0	0	2	0	0	0	0	5	2	7	14
% Approach Total	33.3	0.0	0.0	0.0	33.3	33.3		0.0	50.0	0.0	0.0	0.0	50.0		0.0	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	71.4	28.6		
PHF	0.250	0.000	0.000	0.000	0.250	0.250	0.375	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.417	0.250	0.583	0.583
Entering Leg	1	0	0	0	1	1	3	0	1	0	0	0	1	2	0	2	0	0	0	0	2	0	0	0	0	5	2	7	14
Exiting Leg							4							1							0							9	14
Total							7							3							2							16	28

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	2	0	2	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
7:15 AM	0	0	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	4
7:30 AM	0	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	8	0	8	12
7:45 AM	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	2	1	3	7
Total	0	0	0	0	8	2	10	0	0	0	0	1	0	1	0	0	0	0	1	3	4	0	0	0	0	11	1	12	27
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	1	1	0	0	0	0	0	1	1	5
8:15 AM	0	0	0	0	5	1	6	0	0	0	0	1	0	1	0	0	0	0	0	3	3	0	0	0	0	0	3	3	13
8:30 AM	0	0	0	0	4	2	6	0	0	0	0	4	0	4	0	0	0	0	0	9	9	0	0	0	0	2	11	13	32
8:45 AM	0	0	0	0	2	2	4	0	0	0	0	2	0	2	0	0	0	0	2	21	23	0	0	0	0	4	36	40	69
Total	0	0	0	0	11	5	16	0	0	0	0	10	0	10	0	0	0	0	2	34	36	0	0	0	0	6	51	57	119
Grand Total	0	0	0	0	19	7	26	0	0	0	0	11	0	11	0	0	0	0	3	37	40	0	0	0	0	17	52	69	146
Approach %	0	0	0	0	73.1	26.9		0	0	0	0	100	0		0	0	0	0	7.5	92.5		0	0	0	0	24.6	75.4		
Total %	0	0	0	0	13	4.79	17.8	0	0	0	0	7.53	0	7.53	0	0	0	0	2.05	25.3	27.4	0	0	0	0	11.6	35.6	47.3	
Exiting Leg Total							26							11							40							69	146

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	0	1	1	0	0	0	0	0	1	1	5
8:15 AM	0	0	0	0	5	1	6	0	0	0	0	1	0	1	0	0	0	0	0	3	3	0	0	0	0	0	3	3	13
8:30 AM	0	0	0	0	4	2	6	0	0	0	0	4	0	4	0	0	0	0	0	9	9	0	0	0	0	2	11	13	32
8:45 AM	0	0	0	0	2	2	4	0	0	0	0	2	0	2	0	0	0	0	2	21	23	0	0	0	0	4	36	40	69
Total Volume	0	0	0	0	11	5	16	0	0	0	0	10	0	10	0	0	0	0	2	34	36	0	0	0	0	6	51	57	119
% Approach Total	0.0	0.0	0.0	0.0	68.8	31.3		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	5.6	94.4		0.0	0.0	0.0	0.0	10.5	89.5		
PHF	0.000	0.000	0.000	0.000	0.550	0.625	0.667	0.000	0.000	0.000	0.000	0.625	0.000	0.625	0.000	0.000	0.000	0.000	0.250	0.405	0.391	0.000	0.000	0.000	0.000	0.375	0.354	0.356	0.431
Entering Leg	0	0	0	0	11	5	16	0	0	0	0	10	0	10	0	0	0	0	2	34	36	0	0	0	0	6	51	57	119
Exiting Leg							16							10							36							57	119
Total							32							20							72							114	238

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	9	48	1	0	58	3	130	29	0	162	27	46	76	0	149	31	104	4	0	139	508
4:15 PM	4	38	2	0	44	3	114	32	0	149	27	37	45	0	109	40	109	1	0	150	452
4:30 PM	8	46	2	0	56	3	119	36	0	158	14	28	41	0	83	46	104	2	0	152	449
4:45 PM	5	52	0	0	57	5	107	46	0	158	20	35	50	0	105	33	106	2	0	141	461
Total	26	184	5	0	215	14	470	143	0	627	88	146	212	0	446	150	423	9	0	582	1870
5:00 PM	8	61	1	0	70	2	128	45	0	175	25	35	48	0	108	44	90	3	0	137	490
5:15 PM	5	53	5	0	63	6	137	33	0	176	22	37	36	0	95	48	116	3	0	167	501
5:30 PM	2	35	3	0	40	5	117	29	0	151	22	38	45	0	105	38	117	11	0	166	462
5:45 PM	7	36	3	0	46	4	99	24	0	127	27	42	38	0	107	22	128	1	0	151	431
Total	22	185	12	0	219	17	481	131	0	629	96	152	167	0	415	152	451	18	0	621	1884
Grand Total	48	369	17	0	434	31	951	274	0	1256	184	298	379	0	861	302	874	27	0	1203	3754
Approach %	11.1	85.0	3.9	0.0		2.5	75.7	21.8	0.0		21.4	34.6	44.0	0.0		25.1	72.7	2.2	0.0		
Total %	1.3	9.8	0.5	0.0	11.6	0.8	25.3	7.3	0.0	33.5	4.9	7.9	10.1	0.0	22.9	8.0	23.3	0.7	0.0	32.0	
Exiting Leg Total					356					1075					945					1378	3754
Cars	47	365	16	0	428	28	934	271	0	1233	178	292	367	0	837	298	856	27	0	1181	3679
% Cars	97.9	98.9	94.1	0.0	98.6	90.3	98.2	98.9	0.0	98.2	96.7	98.0	96.8	0.0	97.2	98.7	97.9	100.0	0.0	98.2	98.0
Exiting Leg Total					347					1050					934					1348	3679
Heavy Vehicles	1	4	1	0	6	3	17	3	0	23	6	6	12	0	24	4	18	0	0	22	75
% Heavy Vehicles	2.1	1.1	5.9	0.0	1.4	9.7	1.8	1.1	0.0	1.8	3.3	2.0	3.2	0.0	2.8	1.3	2.1	0.0	0.0	1.8	2.0
Exiting Leg Total					9					25					11					30	75

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:45 PM	5	52	0	0	57	5	107	46	0	158	20	35	50	0	105	33	106	2	0	141	461
5:00 PM	8	61	1	0	70	2	128	45	0	175	25	35	48	0	108	44	90	3	0	137	490
5:15 PM	5	53	5	0	63	6	137	33	0	176	22	37	36	0	95	48	116	3	0	167	501
5:30 PM	2	35	3	0	40	5	117	29	0	151	22	38	45	0	105	38	117	11	0	166	462
Total Volume	20	201	9	0	230	18	489	153	0	660	89	145	179	0	413	163	429	19	0	611	1914
% Approach Total	8.7	87.4	3.9	0.0		2.7	74.1	23.2	0.0		21.5	35.1	43.3	0.0		26.7	70.2	3.1	0.0		
PHF	0.625	0.824	0.450	0.000	0.821	0.750	0.892	0.832	0.000	0.938	0.890	0.954	0.895	0.000	0.956	0.849	0.917	0.432	0.000	0.915	0.955
Cars	20	200	9	0	229	16	480	151	0	647	87	143	176	0	406	162	419	19	0	600	1882
Cars %	100.0	99.5	100.0	0.0	99.6	88.9	98.2	98.7	0.0	98.0	97.8	98.6	98.3	0.0	98.3	99.4	97.7	100.0	0.0	98.2	98.3
Heavy Vehicles	0	1	0	0	1	2	9	2	0	13	2	2	3	0	7	1	10	0	0	11	32
Heavy Vehicles %	0.0	0.5	0.0	0.0	0.4	11.1	1.8	1.3	0.0	2.0	2.2	1.4	1.7	0.0	1.7	0.6	2.3	0.0	0.0	1.8	1.7
Cars Enter Leg	20	200	9	0	229	16	480	151	0	647	87	143	176	0	406	162	419	19	0	600	1882
Heavy Enter Leg	0	1	0	0	1	2	9	2	0	13	2	2	3	0	7	1	10	0	0	11	32
Total Entering Leg	20	201	9	0	230	18	489	153	0	660	89	145	179	0	413	163	429	19	0	611	1914
Cars Exiting Leg					178					515					513					676	1882
Heavy Exiting Leg					4					12					4					12	32
Total Exiting Leg					182					527					517					688	1914

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	8	47	1	0	56	3	128	29	0	160	27	46	71	0	144	31	103	4	0	138	498
4:15 PM	4	37	2	0	43	2	112	32	0	146	25	34	44	0	103	37	104	1	0	142	434
4:30 PM	8	46	1	0	55	3	115	35	0	153	12	27	39	0	78	46	103	2	0	151	437
4:45 PM	5	52	0	0	57	5	105	45	0	155	19	34	50	0	103	32	103	2	0	137	452
Total	25	182	4	0	211	13	460	141	0	614	83	141	204	0	428	146	413	9	0	568	1821
5:00 PM	8	61	1	0	70	1	125	45	0	171	25	34	46	0	105	44	88	3	0	135	481
5:15 PM	5	52	5	0	62	5	135	32	0	172	21	37	35	0	93	48	111	3	0	162	489
5:30 PM	2	35	3	0	40	5	115	29	0	149	22	38	45	0	105	38	117	11	0	166	460
5:45 PM	7	35	3	0	45	4	99	24	0	127	27	42	37	0	106	22	127	1	0	150	428
Total	22	183	12	0	217	15	474	130	0	619	95	151	163	0	409	152	443	18	0	613	1858
Grand Total	47	365	16	0	428	28	934	271	0	1233	178	292	367	0	837	298	856	27	0	1181	3679
Approach %	11.0	85.3	3.7	0.0		2.3	75.8	22.0	0.0		21.3	34.9	43.8	0.0		25.2	72.5	2.3	0.0		
Total %	1.3	9.9	0.4	0.0	11.6	0.8	25.4	7.4	0.0	33.5	4.8	7.9	10.0	0.0	22.8	8.1	23.3	0.7	0.0	32.1	
Exiting Leg Total					347					1050					934					1348	3679

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:45 PM	5	52	0	0	57	5	105	45	0	155	19	34	50	0	103	32	103	2	0	137	452
5:00 PM	8	61	1	0	70	1	125	45	0	171	25	34	46	0	105	44	88	3	0	135	481
5:15 PM	5	52	5	0	62	5	135	32	0	172	21	37	35	0	93	48	111	3	0	162	489
5:30 PM	2	35	3	0	40	5	115	29	0	149	22	38	45	0	105	38	117	11	0	166	460
Total Volume	20	200	9	0	229	16	480	151	0	647	87	143	176	0	406	162	419	19	0	600	1882
% Approach Total	8.7	87.3	3.9	0.0		2.5	74.2	23.3	0.0		21.4	35.2	43.3	0.0		27.0	69.8	3.2	0.0		
PHF	0.625	0.820	0.450	0.000	0.818	0.800	0.889	0.839	0.000	0.940	0.870	0.941	0.880	0.000	0.967	0.844	0.895	0.432	0.000	0.904	0.962
Entering Leg	20	200	9	0	229	16	480	151	0	647	87	143	176	0	406	162	419	19	0	600	1882
Exiting Leg					178					515					513					676	1882
Total					407					1162					919					1276	3764

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	1	0	0	2	0	2	0	0	2	0	0	5	0	5	0	1	0	0	1	10
4:15 PM	0	1	0	0	1	1	2	0	0	3	2	3	1	0	6	3	5	0	0	8	18
4:30 PM	0	0	1	0	1	0	4	1	0	5	2	1	2	0	5	0	1	0	0	1	12
4:45 PM	0	0	0	0	0	0	2	1	0	3	1	1	0	0	2	1	3	0	0	4	9
Total	1	2	1	0	4	1	10	2	0	13	5	5	8	0	18	4	10	0	0	14	49
5:00 PM	0	0	0	0	0	1	3	0	0	4	0	1	2	0	3	0	2	0	0	2	9
5:15 PM	0	1	0	0	1	1	2	1	0	4	1	0	1	0	2	0	5	0	0	5	12
5:30 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	3
Total	0	2	0	0	2	2	7	1	0	10	1	1	4	0	6	0	8	0	0	8	26
Grand Total	1	4	1	0	6	3	17	3	0	23	6	6	12	0	24	4	18	0	0	22	75
Approach %	16.7	66.7	16.7	0.0		13.0	73.9	13.0	0.0		25.0	25.0	50.0	0.0		18.2	81.8	0.0	0.0		
Total %	1.3	5.3	1.3	0.0	8.0	4.0	22.7	4.0	0.0	30.7	8.0	8.0	16.0	0.0	32.0	5.3	24.0	0.0	0.0	29.3	
Exiting Leg Total					9					25					11					30	75
Buses	0	1	0	0	1	0	7	0	0	7	3	1	1	0	5	2	8	0	0	10	23
% Buses	0.0	25.0	0.0	0.0	16.7	0.0	41.2	0.0	0.0	30.4	50.0	16.7	8.3	0.0	20.8	50.0	44.4	0.0	0.0	45.5	30.7
Exiting Leg Total					1					11					3					8	23
Single-Unit Trucks	1	3	0	0	4	3	8	3	0	14	3	1	8	0	12	2	9	0	0	11	41
% Single-Unit	100.0	75.0	0.0	0.0	66.7	100.0	47.1	100.0	0.0	60.9	50.0	16.7	66.7	0.0	50.0	50.0	50.0	0.0	0.0	50.0	54.7
Exiting Leg Total					4					12					8					17	41
Articulated Trucks	0	0	1	0	1	0	2	0	0	2	0	4	3	0	7	0	1	0	0	1	11
% Articulated	0.0	0.0	100.0	0.0	16.7	0.0	11.8	0.0	0.0	8.7	0.0	66.7	25.0	0.0	29.2	0.0	5.6	0.0	0.0	4.5	14.7
Exiting Leg Total					4					2					0					5	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	1	0	0	2	0	2	0	0	2	0	0	5	0	5	0	1	0	0	1	10
4:15 PM	0	1	0	0	1	1	2	0	0	3	2	3	1	0	6	3	5	0	0	8	18
4:30 PM	0	0	1	0	1	0	4	1	0	5	2	1	2	0	5	0	1	0	0	1	12
4:45 PM	0	0	0	0	0	0	2	1	0	3	1	1	0	0	2	1	3	0	0	4	9
Total Volume	1	2	1	0	4	1	10	2	0	13	5	5	8	0	18	4	10	0	0	14	49
% Approach Total	25.0	50.0	25.0	0.0		7.7	76.9	15.4	0.0		27.8	27.8	44.4	0.0		28.6	71.4	0.0	0.0		
PHF	0.250	0.500	0.250	0.000	0.500	0.250	0.625	0.500	0.000	0.650	0.625	0.417	0.400	0.000	0.750	0.333	0.500	0.000	0.000	0.438	0.681
Buses	0	1	0	0	1	0	5	0	0	5	3	0	0	0	3	2	7	0	0	9	18
Buses %	0.0	50.0	0.0	0.0	25.0	0.0	50.0	0.0	0.0	38.5	60.0	0.0	0.0	0.0	16.7	50.0	70.0	0.0	0.0	64.3	36.7
Single-Unit Trucks	1	1	0	0	2	1	3	2	0	6	2	1	7	0	10	2	3	0	0	5	23
Single-Unit %	100.0	50.0	0.0	0.0	50.0	100.0	30.0	100.0	0.0	46.2	40.0	20.0	87.5	0.0	55.6	50.0	30.0	0.0	0.0	35.7	46.9
Articulated Trucks	0	0	1	0	1	0	2	0	0	2	0	4	1	0	5	0	0	0	0	0	8
Articulated %	0.0	0.0	100.0	0.0	25.0	0.0	20.0	0.0	0.0	15.4	0.0	80.0	12.5	0.0	27.8	0.0	0.0	0.0	0.0	0.0	16.3
Buses	0	1	0	0	1	0	5	0	0	5	3	0	0	0	3	2	7	0	0	9	18
Single-Unit Trucks	1	1	0	0	2	1	3	2	0	6	2	1	7	0	10	2	3	0	0	5	23
Articulated Trucks	0	0	1	0	1	0	2	0	0	2	0	4	1	0	5	0	0	0	0	0	8
Total Entering Leg	1	2	1	0	4	1	10	2	0	13	5	5	8	0	18	4	10	0	0	14	49
Buses					0					10					3					5	18
Single-Unit Trucks					2					5					5					11	23
Articulated Trucks					4					1					0					3	8
Total Exiting Leg					6					16					8					19	49

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	4	0	0	5	7
4:30 PM	0	0	0	0	0	0	2	0	0	2	2	0	0	0	2	0	1	0	0	1	5
4:45 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	5
Total	0	1	0	0	1	0	5	0	0	5	3	0	0	0	3	2	7	0	0	9	18
5:00 PM	0	0	0	0	0	0	1	0	0	1	0	1	1	0	2	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
5:30 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	2	0	0	2	0	1	1	0	2	0	1	0	0	1	5
Grand Total	0	1	0	0	1	0	7	0	0	7	3	1	1	0	5	2	8	0	0	10	23
Approach %	0.0	100.0	0.0	0.0		0.0	100.0	0.0	0.0		60.0	20.0	20.0	0.0		20.0	80.0	0.0	0.0		
Total %	0.0	4.3	0.0	0.0	4.3	0.0	30.4	0.0	0.0	30.4	13.0	4.3	4.3	0.0	21.7	8.7	34.8	0.0	0.0	43.5	
Exiting Leg Total					1					11					3					8	23

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	0	0	1	0	0	1	1	0	0	0	1	1	4	0	0	5	7
4:30 PM	0	0	0	0	0	0	2	0	0	2	2	0	0	0	2	0	1	0	0	1	5
4:45 PM	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	5
5:00 PM	0	0	0	0	0	0	1	0	0	1	0	1	1	0	2	0	0	0	0	0	3
Total Volume	0	0	0	0	0	0	6	0	0	6	3	1	1	0	5	2	7	0	0	9	20
% Approach Total	0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		60.0	20.0	20.0	0.0		22.2	77.8	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.750	0.375	0.250	0.250	0.000	0.625	0.500	0.438	0.000	0.000	0.450	0.714
Entering Leg	0	0	0	0	0	0	6	0	0	6	3	1	1	0	5	2	7	0	0	9	20
Exiting Leg					1					10					2					7	20
Total					1					16					7					16	40

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Single-Unit Trucks

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	0	0	0	1	0	2	0	0	2	0	0	5	0	5	0	1	0	0	1	9
4:15 PM	0	1	0	0	1	1	1	0	0	2	1	0	1	0	2	2	1	0	0	3	8
4:30 PM	0	0	0	0	0	0	0	1	0	1	0	1	1	0	2	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	3
Total	1	1	0	0	2	1	3	2	0	6	2	1	7	0	10	2	3	0	0	5	23
5:00 PM	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	0	2	0	0	2	5
5:15 PM	0	1	0	0	1	1	2	1	0	4	1	0	1	0	2	0	3	0	0	3	10
5:30 PM	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
Total	0	2	0	0	2	2	5	1	0	8	1	0	1	0	2	0	6	0	0	6	18
Grand Total	1	3	0	0	4	3	8	3	0	14	3	1	8	0	12	2	9	0	0	11	41
Approach %	25.0	75.0	0.0	0.0		21.4	57.1	21.4	0.0		25.0	8.3	66.7	0.0		18.2	81.8	0.0	0.0		
Total %	2.4	7.3	0.0	0.0	9.8	7.3	19.5	7.3	0.0	34.1	7.3	2.4	19.5	0.0	29.3	4.9	22.0	0.0	0.0	26.8	
Exiting Leg Total					4					12					8					17	41

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	0	0	0	1	0	2	0	0	2	0	0	5	0	5	0	1	0	0	1	9
4:15 PM	0	1	0	0	1	1	1	0	0	2	1	0	1	0	2	2	1	0	0	3	8
4:30 PM	0	0	0	0	0	0	0	1	0	1	0	1	1	0	2	0	0	0	0	0	3
4:45 PM	0	0	0	0	0	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	3
Total Volume	1	1	0	0	2	1	3	2	0	6	2	1	7	0	10	2	3	0	0	5	23
% Approach Total	50.0	50.0	0.0	0.0		16.7	50.0	33.3	0.0		20.0	10.0	70.0	0.0		40.0	60.0	0.0	0.0		
PHF	0.250	0.250	0.000	0.000	0.500	0.250	0.375	0.500	0.000	0.750	0.500	0.250	0.350	0.000	0.500	0.250	0.750	0.000	0.000	0.417	0.639
Entering Leg	1	1	0	0	2	1	3	2	0	6	2	1	7	0	10	2	3	0	0	5	23
Exiting Leg					2					5					5					11	23
Total					4					11					15					16	46

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
4:30 PM	0	0	1	0	1	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	4
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	0	1	0	1	0	2	0	0	2	0	4	1	0	5	0	0	0	0	0	8
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	1	0	0	1	3
Grand Total	0	0	1	0	1	0	2	0	0	2	0	4	3	0	7	0	1	0	0	1	11
Approach %	0.0	0.0	100.0	0.0		0.0	100.0	0.0	0.0		0.0	57.1	42.9	0.0		0.0	100.0	0.0	0.0		
Total %	0.0	0.0	9.1	0.0	9.1	0.0	18.2	0.0	0.0	18.2	0.0	36.4	27.3	0.0	63.6	0.0	9.1	0.0	0.0	9.1	
Exiting Leg Total					4					2					0					5	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North					Washington Street from East					Lowell Avenue from South					Washington Street from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
4:30 PM	0	0	1	0	1	0	2	0	0	2	0	0	1	0	1	0	0	0	0	0	4
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total Volume	0	0	1	0	1	0	2	0	0	2	0	4	2	0	6	0	0	0	0	0	9
% Approach Total	0.0	0.0	100.0	0.0		0.0	100.0	0.0	0.0		0.0	66.7	33.3	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.250	0.000	0.250	0.000	0.250	0.000	0.000	0.250	0.000	0.333	0.500	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.563
Entering Leg	0	0	1	0	1	0	2	0	0	2	0	4	2	0	6	0	0	0	0	0	9
Exiting Leg					4					1					0					4	9
Total					5					3					6					4	18

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	1	1	0	0	0	0	3	0	3	0	0	2	0	2	1	5	0	0	0	0	0	0	0	9
4:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:30 PM	0	1	0	0	0	1	2	0	0	0	0	0	1	1	0	0	1	0	1	1	3	0	0	0	0	0	0	0	6
4:45 PM	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	3	7
Total	0	3	0	0	1	5	9	0	0	0	0	3	4	7	0	0	3	0	3	2	8	1	0	0	0	0	2	3	27
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:30 PM	1	2	0	0	0	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
5:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3
Total	1	3	0	0	0	4	8	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2	2	11
Grand Total	1	6	0	0	1	9	17	0	0	0	0	3	4	7	0	1	3	0	3	2	9	1	0	0	0	0	4	5	38
Approach %	5.9	35.3	0.0	0.0	5.9	52.9		0.0	0.0	0.0	0.0	42.9	57.1		0.0	11.1	33.3	0.0	33.3	22.2		20.0	0.0	0.0	0.0	0.0	80.0		
Total %	2.6	15.8	0.0	0.0	2.6	23.7	44.7	0.0	0.0	0.0	0.0	7.9	10.5	18.4	0.0	2.6	7.9	0.0	7.9	5.3	23.7	2.6	0.0	0.0	0.0	0.0	10.5	13.2	
Exiting Leg Total							11							7							12							8	38

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	1	1	0	0	0	0	3	0	3	0	0	2	0	2	1	5	0	0	0	0	0	0	0	9
4:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
4:30 PM	0	1	0	0	0	1	2	0	0	0	0	0	1	1	0	0	1	0	1	1	3	0	0	0	0	0	0	0	6
4:45 PM	0	0	0	0	1	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	3	7
Total Volume	0	3	0	0	1	5	9	0	0	0	0	3	4	7	0	0	3	0	3	2	8	1	0	0	0	0	2	3	27
% Approach Total	0.0	33.3	0.0	0.0	11.1	55.6		0.0	0.0	0.0	0.0	42.9	57.1		0.0	0.0	37.5	0.0	37.5	25.0		33.3	0.0	0.0	0.0	0.0	66.7		
PHF	0.000	0.375	0.000	0.000	0.250	0.417	0.563	0.000	0.000	0.000	0.000	0.250	0.333	0.583	0.000	0.000	0.375	0.000	0.375	0.500	0.400	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.750
Entering Leg	0	3	0	0	1	5	9	0	0	0	0	3	4	7	0	0	3	0	3	2	8	1	0	0	0	0	2	3	27
Exiting Leg							6							7							9							5	27
Total							15							14							17							8	54

PDI File #: **228976 B**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Washington Street W: Washington Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	2	10	12	0	0	0	0	0	2	2	0	0	0	0	8	1	9	0	0	0	0	13	1	14	37
4:15 PM	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	0	0	0	3	2	5	0	0	0	0	3	4	7	17
4:30 PM	0	0	0	0	0	5	5	0	0	0	0	2	3	5	0	0	0	0	8	1	9	0	0	0	0	9	1	10	29
4:45 PM	0	0	0	0	2	3	5	0	0	0	0	0	2	2	0	0	0	0	3	1	4	0	0	0	0	1	1	2	13
Total	0	0	0	0	6	19	25	0	0	0	0	2	9	11	0	0	0	0	22	5	27	0	0	0	0	26	7	33	96
5:00 PM	0	0	0	0	3	6	9	0	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	0	0	3	1	4	20
5:15 PM	0	0	0	0	4	4	8	0	0	0	0	1	2	3	0	0	0	0	1	0	1	0	0	0	0	1	2	3	15
5:30 PM	0	0	0	0	2	1	3	0	0	0	0	2	2	4	0	0	0	0	2	0	2	0	0	0	0	3	2	5	14
5:45 PM	0	0	0	0	3	2	5	0	0	0	0	0	2	2	0	0	0	0	3	2	5	0	0	0	0	2	3	5	17
Total	0	0	0	0	12	13	25	0	0	0	0	7	9	16	0	0	0	0	6	2	8	0	0	0	0	9	8	17	66
Grand Total	0	0	0	0	18	32	50	0	0	0	0	9	18	27	0	0	0	0	28	7	35	0	0	0	0	35	15	50	162
Approach %	0	0	0	0	36	64		0	0	0	0	33.3	66.7		0	0	0	0	80	20		0	0	0	0	70	30		
Total %	0	0	0	0	11.1	19.8	30.9	0	0	0	0	5.56	11.1	16.7	0	0	0	0	17.3	4.32	21.6	0	0	0	0	21.6	9.26	30.9	
Exiting Leg Total							50							27							35							50	162

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North							Washington Street from East							Lowell Avenue from South							Washington Street from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	2	10	12	0	0	0	0	0	2	2	0	0	0	0	8	1	9	0	0	0	0	13	1	14	37
4:15 PM	0	0	0	0	2	1	3	0	0	0	0	0	2	2	0	0	0	0	3	2	5	0	0	0	0	3	4	7	17
4:30 PM	0	0	0	0	0	5	5	0	0	0	0	2	3	5	0	0	0	0	8	1	9	0	0	0	0	9	1	10	29
4:45 PM	0	0	0	0	2	3	5	0	0	0	0	0	2	2	0	0	0	0	3	1	4	0	0	0	0	1	1	2	13
Total Volume	0	0	0	0	6	19	25	0	0	0	0	2	9	11	0	0	0	0	22	5	27	0	0	0	0	26	7	33	96
% Approach Total	0.0	0.0	0.0	0.0	24.0	76.0		0.0	0.0	0.0	0.0	18.2	81.8		0.0	0.0	0.0	0.0	81.5	18.5		0.0	0.0	0.0	0.0	78.8	21.2		
PHF	0.000	0.000	0.000	0.000	0.750	0.475	0.521	0.000	0.000	0.000	0.000	0.250	0.750	0.550	0.000	0.000	0.000	0.000	0.688	0.625	0.750	0.000	0.000	0.000	0.000	0.500	0.438	0.589	0.649
Entering Leg	0	0	0	0	6	19	25	0	0	0	0	2	9	11	0	0	0	0	22	5	27	0	0	0	0	26	7	33	96
Exiting Leg							25							11							27							33	96
Total							50							22							54							66	192

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	17	71	2	0	90	0	0	0	0	0	0	41	0	0	41	0	1	25	0	26	157
7:15 AM	29	88	0	0	117	2	0	0	0	2	1	43	0	0	44	0	0	37	0	37	200
7:30 AM	30	58	1	0	89	2	0	1	0	3	0	88	0	0	88	0	0	29	0	29	209
7:45 AM	61	80	0	0	141	0	0	0	0	0	1	85	0	0	86	2	2	47	0	51	278
Total	137	297	3	0	437	4	0	1	0	5	2	257	0	0	259	2	3	138	0	143	844
8:00 AM	44	79	1	0	124	0	0	0	0	0	0	83	0	0	83	1	0	28	0	29	236
8:15 AM	1	121	1	0	123	1	0	1	0	2	1	90	0	0	91	0	2	15	0	17	233
8:30 AM	3	100	3	3	109	3	1	0	0	4	2	97	0	0	99	0	1	0	0	1	213
8:45 AM	7	91	3	0	101	2	1	0	0	3	2	107	0	0	109	0	0	7	0	7	220
Total	55	391	8	3	457	6	2	1	0	9	5	377	0	0	382	1	3	50	0	54	902
Grand Total	192	688	11	3	894	10	2	2	0	14	7	634	0	0	641	3	6	188	0	197	1746
Approach %	21.5	77.0	1.2	0.3		71.4	14.3	14.3	0.0		1.1	98.9	0.0	0.0		1.5	3.0	95.4	0.0		
Total %	11.0	39.4	0.6	0.2	51.2	0.6	0.1	0.1	0.0	0.8	0.4	36.3	0.0	0.0	36.7	0.2	0.3	10.8	0.0	11.3	
Exiting Leg Total					835					24					693					194	1746
Cars	180	635	11	3	829	9	2	2	0	13	6	606	0	0	612	2	6	182	0	190	1644
% Cars	93.8	92.3	100.0	100.0	92.7	90.0	100.0	100.0	0.0	92.9	85.7	95.6	0.0	0.0	95.5	66.7	100.0	96.8	0.0	96.4	94.2
Exiting Leg Total					800					23					639					182	1644
Heavy Vehicles	12	53	0	0	65	1	0	0	0	1	1	28	0	0	29	1	0	6	0	7	102
% Heavy Vehicles	6.3	7.7	0.0	0.0	7.3	10.0	0.0	0.0	0.0	7.1	14.3	4.4	0.0	0.0	4.5	33.3	0.0	3.2	0.0	3.6	5.8
Exiting Leg Total					35					1					54					12	102

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	61	80	0	0	141	0	0	0	0	0	1	85	0	0	86	2	2	47	0	51	278
8:00 AM	44	79	1	0	124	0	0	0	0	0	0	83	0	0	83	1	0	28	0	29	236
8:15 AM	1	121	1	0	123	1	0	1	0	2	1	90	0	0	91	0	2	15	0	17	233
8:30 AM	3	100	3	3	109	3	1	0	0	4	2	97	0	0	99	0	1	0	0	1	213
Total Volume	109	380	5	3	497	4	1	1	0	6	4	355	0	0	359	3	5	90	0	98	960
% Approach Total	21.9	76.5	1.0	0.6		66.7	16.7	16.7	0.0		1.1	98.9	0.0	0.0		3.1	5.1	91.8	0.0		
PHF	0.447	0.785	0.417	0.250	0.881	0.333	0.250	0.250	0.000	0.375	0.500	0.915	0.000	0.000	0.907	0.375	0.625	0.479	0.000	0.480	0.863
Cars	101	361	5	3	470	3	1	1	0	5	3	334	0	0	337	2	5	89	0	96	908
Cars %	92.7	95.0	100.0	100.0	94.6	75.0	100.0	100.0	0.0	83.3	75.0	94.1	0.0	0.0	93.9	66.7	100.0	98.9	0.0	98.0	94.6
Heavy Vehicles	8	19	0	0	27	1	0	0	0	1	1	21	0	0	22	1	0	1	0	2	52
Heavy Vehicles %	7.3	5.0	0.0	0.0	5.4	25.0	0.0	0.0	0.0	16.7	25.0	5.9	0.0	0.0	6.1	33.3	0.0	1.1	0.0	2.0	5.4
Cars Enter Leg	101	361	5	3	470	3	1	1	0	5	3	334	0	0	337	2	5	89	0	96	908
Heavy Enter Leg	8	19	0	0	27	1	0	0	0	1	1	21	0	0	22	1	0	1	0	2	52
Total Entering Leg	109	380	5	3	497	4	1	1	0	6	4	355	0	0	359	3	5	90	0	98	960
Cars Exiting Leg					429					13					364					102	908
Heavy Exiting Leg					23					1					20					8	52
Total Exiting Leg					452					14					384					110	960

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	17	61	2	0	80	0	0	0	0	0	0	40	0	0	40	0	1	25	0	26	146
7:15 AM	28	74	0	0	102	2	0	0	0	2	1	42	0	0	43	0	0	33	0	33	180
7:30 AM	28	53	1	0	82	2	0	1	0	3	0	88	0	0	88	0	0	28	0	28	201
7:45 AM	56	77	0	0	133	0	0	0	0	0	1	80	0	0	81	1	2	46	0	49	263
Total	129	265	3	0	397	4	0	1	0	5	2	250	0	0	252	1	3	132	0	136	790
8:00 AM	41	76	1	0	118	0	0	0	0	0	0	80	0	0	80	1	0	28	0	29	227
8:15 AM	1	115	1	0	117	1	0	1	0	2	1	82	0	0	83	0	2	15	0	17	219
8:30 AM	3	93	3	3	102	2	1	0	0	3	1	92	0	0	93	0	1	0	0	1	199
8:45 AM	6	86	3	0	95	2	1	0	0	3	2	102	0	0	104	0	0	7	0	7	209
Total	51	370	8	3	432	5	2	1	0	8	4	356	0	0	360	1	3	50	0	54	854
Grand Total	180	635	11	3	829	9	2	2	0	13	6	606	0	0	612	2	6	182	0	190	1644
Approach %	21.7	76.6	1.3	0.4		69.2	15.4	15.4	0.0		1.0	99.0	0.0	0.0		1.1	3.2	95.8	0.0		
Total %	10.9	38.6	0.7	0.2	50.4	0.5	0.1	0.1	0.0	0.8	0.4	36.9	0.0	0.0	37.2	0.1	0.4	11.1	0.0	11.6	
Exiting Leg Total					800					23					639					182	1644

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:30 AM	28	53	1	0	82	2	0	1	0	3	0	88	0	0	88	0	0	28	0	28	201
7:45 AM	56	77	0	0	133	0	0	0	0	0	1	80	0	0	81	1	2	46	0	49	263
8:00 AM	41	76	1	0	118	0	0	0	0	0	0	80	0	0	80	1	0	28	0	29	227
8:15 AM	1	115	1	0	117	1	0	1	0	2	1	82	0	0	83	0	2	15	0	17	219
Total Volume	126	321	3	0	450	3	0	2	0	5	2	330	0	0	332	2	4	117	0	123	910
% Approach Total	28.0	71.3	0.7	0.0		60.0	0.0	40.0	0.0		0.6	99.4	0.0	0.0		1.6	3.3	95.1	0.0		
PHF	0.563	0.698	0.750	0.000	0.846	0.375	0.000	0.500	0.000	0.417	0.500	0.938	0.000	0.000	0.943	0.500	0.500	0.636	0.000	0.628	0.865
Entering Leg	126	321	3	0	450	3	0	2	0	5	2	330	0	0	332	2	4	117	0	123	910
Exiting Leg					450					9					325					126	910
Total					900					14					657					249	1820

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	10	0	0	10	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	11
7:15 AM	1	14	0	0	15	0	0	0	0	0	0	1	0	0	1	0	0	4	0	4	20
7:30 AM	2	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	8
7:45 AM	5	3	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	1	0	2	15
Total	8	32	0	0	40	0	0	0	0	0	0	7	0	0	7	1	0	6	0	7	54
8:00 AM	3	3	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
8:15 AM	0	6	0	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	14
8:30 AM	0	7	0	0	7	1	0	0	0	1	1	5	0	0	6	0	0	0	0	0	14
8:45 AM	1	5	0	0	6	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	11
Total	4	21	0	0	25	1	0	0	0	1	1	21	0	0	22	0	0	0	0	0	48
Grand Total	12	53	0	0	65	1	0	0	0	1	1	28	0	0	29	1	0	6	0	7	102
Approach %	18.5	81.5	0.0	0.0		100.0	0.0	0.0	0.0		3.4	96.6	0.0	0.0		14.3	0.0	85.7	0.0		
Total %	11.8	52.0	0.0	0.0	63.7	1.0	0.0	0.0	0.0	1.0	1.0	27.5	0.0	0.0	28.4	1.0	0.0	5.9	0.0	6.9	
Exiting Leg Total					35					1					54					12	102
Buses	3	8	0	0	11	0	0	0	0	0	0	11	0	0	11	1	0	0	0	1	23
% Buses	25.0	15.1	0.0	0.0	16.9	0.0	0.0	0.0	0.0	0.0	0.0	39.3	0.0	0.0	37.9	100.0	0.0	0.0	0.0	14.3	22.5
Exiting Leg Total					11					0					9					3	23
Single-Unit Trucks	7	29	0	0	36	1	0	0	0	1	1	16	0	0	17	0	0	5	0	5	59
% Single-Unit	58.3	54.7	0.0	0.0	55.4	100.0	0.0	0.0	0.0	100.0	100.0	57.1	0.0	0.0	58.6	0.0	0.0	83.3	0.0	71.4	57.8
Exiting Leg Total					22					1					29					7	59
Articulated Trucks	2	16	0	0	18	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	20
% Articulated	16.7	30.2	0.0	0.0	27.7	0.0	0.0	0.0	0.0	0.0	0.0	3.6	0.0	0.0	3.4	0.0	0.0	16.7	0.0	14.3	19.6
Exiting Leg Total					2					0					16					2	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	10	0	0	10	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	11
7:15 AM	1	14	0	0	15	0	0	0	0	0	0	1	0	0	1	0	0	4	0	4	20
7:30 AM	2	5	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	8
7:45 AM	5	3	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	1	0	2	15
Total Volume	8	32	0	0	40	0	0	0	0	0	0	7	0	0	7	1	0	6	0	7	54
% Approach Total	20.0	80.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		14.3	0.0	85.7	0.0		
PHF	0.400	0.571	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.350	0.000	0.000	0.350	0.250	0.000	0.375	0.000	0.438	0.675
Buses	3	5	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	14
Buses %	37.5	15.6	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	71.4	0.0	0.0	71.4	100.0	0.0	0.0	0.0	14.3	25.9
Single-Unit Trucks	4	17	0	0	21	0	0	0	0	0	0	2	0	0	2	0	0	5	0	5	28
Single-Unit %	50.0	53.1	0.0	0.0	52.5	0.0	0.0	0.0	0.0	0.0	0.0	28.6	0.0	0.0	28.6	0.0	0.0	83.3	0.0	71.4	51.9
Articulated Trucks	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12
Articulated %	12.5	31.3	0.0	0.0	27.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	14.3	22.2
Buses	3	5	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	14
Single-Unit Trucks	4	17	0	0	21	0	0	0	0	0	0	2	0	0	2	0	0	5	0	5	28
Articulated Trucks	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12
Total Entering Leg	8	32	0	0	40	0	0	0	0	0	0	7	0	0	7	1	0	6	0	7	54
Buses					5					0					6					3	14
Single-Unit Trucks					7					0					17					4	28
Articulated Trucks					1					0					10					1	12
Total Exiting Leg					13					0					33					8	54

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Buses

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:30 AM	1	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	2	0	0	0	2	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	6
Total	3	5	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	14
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
8:45 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	9
Grand Total	3	8	0	0	11	0	0	0	0	0	0	11	0	0	11	1	0	0	0	1	23
Approach %	27.3	72.7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		
Total %	13.0	34.8	0.0	0.0	47.8	0.0	0.0	0.0	0.0	0.0	0.0	47.8	0.0	0.0	47.8	4.3	0.0	0.0	0.0	4.3	
Exiting Leg Total					11					0					9					3	23

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:15 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:30 AM	1	3	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:45 AM	2	0	0	0	2	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	6
Total Volume	3	5	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	14
% Approach Total	37.5	62.5	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		100.0	0.0	0.0	0.0		
PHF	0.375	0.417	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.417	0.000	0.000	0.417	0.250	0.000	0.000	0.000	0.250	0.583
Entering Leg	3	5	0	0	8	0	0	0	0	0	0	5	0	0	5	1	0	0	0	1	14
Exiting Leg					5					0					6					3	14
Total					13					0					11					4	28

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
7:15 AM	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	14
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	3
7:45 AM	3	1	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	7
Total	4	17	0	0	21	0	0	0	0	0	0	2	0	0	2	0	0	5	0	5	28
8:00 AM	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
8:15 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9
8:30 AM	0	5	0	0	5	1	0	0	0	1	1	3	0	0	4	0	0	0	0	0	10
8:45 AM	1	2	0	0	3	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	7
Total	3	12	0	0	15	1	0	0	0	1	1	14	0	0	15	0	0	0	0	0	31
Grand Total	7	29	0	0	36	1	0	0	0	1	1	16	0	0	17	0	0	5	0	5	59
Approach %	19.4	80.6	0.0	0.0		100.0	0.0	0.0	0.0		5.9	94.1	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	11.9	49.2	0.0	0.0	61.0	1.7	0.0	0.0	0.0	1.7	1.7	27.1	0.0	0.0	28.8	0.0	0.0	8.5	0.0	8.5	
Exiting Leg Total					22					1					29					7	59

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:45 AM	3	1	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	7
8:00 AM	2	1	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	5
8:15 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	9
8:30 AM	0	5	0	0	5	1	0	0	0	1	1	3	0	0	4	0	0	0	0	0	10
Total Volume	5	11	0	0	16	1	0	0	0	1	1	12	0	0	13	0	0	1	0	1	31
% Approach Total	31.3	68.8	0.0	0.0		100.0	0.0	0.0	0.0		7.7	92.3	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.417	0.550	0.000	0.000	0.800	0.250	0.000	0.000	0.000	0.250	0.250	0.600	0.000	0.000	0.650	0.000	0.000	0.250	0.000	0.250	0.775
Entering Leg	5	11	0	0	16	1	0	0	0	1	1	12	0	0	13	0	0	1	0	1	31
Exiting Leg					14					1					11					5	31
Total					30					2					24					6	62

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
7:30 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12
8:00 AM	1	2	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
8:15 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	1	6	0	0	7	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	8
Grand Total	2	16	0	0	18	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	20
Approach %	11.1	88.9	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	10.0	80.0	0.0	0.0	90.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	5.0	0.0	0.0	5.0	0.0	5.0	
Exiting Leg Total					2					0					16					2	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	5	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	4
7:30 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total Volume	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12
% Approach Total	9.1	90.9	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.250	0.500	0.000	0.000	0.550	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.600
Entering Leg	1	10	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	12
Exiting Leg					1					0					10					1	12
Total					12					0					10					2	24

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	2	0	0	0	0	0	0	0	3
7:15 AM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	0	1	4
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	9	9	1	2	0	0	0	0	3	0	0	0	0	0	0	0	12
7:45 AM	0	1	0	0	0	0	1	0	0	0	0	0	3	3	0	1	0	0	0	0	1	0	0	0	0	2	0	2	7
Total	0	3	0	0	0	0	3	0	0	0	0	0	13	13	3	4	0	0	0	0	7	0	1	0	0	2	0	3	26
8:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3
8:15 AM	0	1	0	0	0	0	1	0	0	1	0	0	1	2	0	1	0	0	0	0	1	0	0	1	0	0	0	1	5
8:30 AM	0	5	0	0	0	0	5	0	1	0	0	5	1	7	0	1	0	0	1	1	3	0	0	1	0	0	0	1	16
8:45 AM	1	3	0	0	0	0	4	0	0	0	0	1	0	1	1	1	0	0	0	0	2	0	0	0	0	0	1	1	8
Total	1	10	0	0	0	0	11	0	1	1	0	6	3	11	1	4	0	0	1	1	7	0	0	2	0	0	1	3	32
Grand Total	1	13	0	0	0	0	14	0	1	1	0	6	16	24	4	8	0	0	1	1	14	0	1	2	0	2	1	6	58
Approach %	7.1	92.9	0.0	0.0	0.0	0.0		0.0	4.2	4.2	0.0	25.0	66.7		28.6	57.1	0.0	0.0	7.1	7.1		0.0	16.7	33.3	0.0	33.3	16.7		
Total %	1.7	22.4	0.0	0.0	0.0	0.0	24.1	0.0	1.7	1.7	0.0	10.3	27.6	41.4	6.9	13.8	0.0	0.0	1.7	1.7	24.1	0.0	1.7	3.4	0.0	3.4	1.7	10.3	
Exiting Leg Total							10							27							16							5	58

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	3
8:15 AM	0	1	0	0	0	0	1	0	0	1	0	0	1	2	0	1	0	0	0	0	1	0	0	1	0	0	0	1	5
8:30 AM	0	5	0	0	0	0	5	0	1	0	0	5	1	7	0	1	0	0	1	1	3	0	0	1	0	0	0	1	16
8:45 AM	1	3	0	0	0	0	4	0	0	0	0	1	0	1	1	1	0	0	0	0	2	0	0	0	0	0	1	1	8
Total Volume	1	10	0	0	0	0	11	0	1	1	0	6	3	11	1	4	0	0	1	1	7	0	0	2	0	0	1	3	32
% Approach Total	9.1	90.9	0.0	0.0	0.0	0.0		0.0	9.1	9.1	0.0	54.5	27.3		14.3	57.1	0.0	0.0	14.3	14.3		0.0	0.0	66.7	0.0	0.0	33.3		
PHF	0.250	0.500	0.000	0.000	0.000	0.000	0.550	0.000	0.250	0.250	0.000	0.300	0.750	0.393	0.250	1.000	0.000	0.000	0.250	0.250	0.583	0.000	0.000	0.500	0.000	0.000	0.250	0.750	0.500
Entering Leg	1	10	0	0	0	0	11	0	1	1	0	6	3	11	1	4	0	0	1	1	7	0	0	2	0	0	1	3	32
Exiting Leg							6							10							13							3	32
Total							17							21							20							6	64

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	0	0	2	1	3	8
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	0	0	0	0	1	1	0	0	0	0	10	2	12	24
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	3	1	4	11
Total	0	0	0	0	0	0	0	0	0	0	0	2	21	23	0	0	0	0	0	2	2	0	0	0	0	15	5	20	45
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	3	4
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	8	0	0	0	0	1	1	2	0	0	0	0	1	2	3	13
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	3	0	3	0	0	0	0	1	3	4	13
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	5	1	6	0	0	0	0	0	0	0	0	0	0	0	0	3	3	9
Total	0	0	0	0	0	0	0	0	0	0	0	18	2	20	0	0	0	0	4	2	6	0	0	0	0	2	11	13	39
Grand Total	0	0	0	0	0	0	0	0	0	0	0	20	23	43	0	0	0	0	4	4	8	0	0	0	0	17	16	33	84
Approach %	0	0	0	0	0	0		0	0	0	0	46.5	53.5		0	0	0	0	50	50		0	0	0	0	51.5	48.5		
Total %	0	0	0	0	0	0	0	0	0	0	0	23.8	27.4	51.2	0	0	0	0	4.76	4.76	9.52	0	0	0	0	20.2	19	39.3	
Exiting Leg Total							0							43							8							33	84

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	0	0	0	0	1	1	0	0	0	0	10	2	12	24
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	3	1	4	11
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	3	4
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	7	1	8	0	0	0	0	1	1	2	0	0	0	0	1	2	3	13
Total Volume	0	0	0	0	0	0	0	0	0	0	0	7	19	26	0	0	0	0	1	3	4	0	0	0	0	14	8	22	52
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	26.9	73.1		0.0	0.0	0.0	0.0	25.0	75.0		0.0	0.0	0.0	0.0	63.6	36.4		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.432	0.591	0.000	0.000	0.000	0.000	0.250	0.750	0.500	0.000	0.000	0.000	0.000	0.350	0.667	0.458	0.542
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	7	19	26	0	0	0	0	1	3	4	0	0	0	0	14	8	22	52
Exiting Leg							0							26							4							22	52
Total							0							52							8							44	104

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	60	73	1	0	134	2	0	1	0	3	0	107	0	0	107	0	0	32	0	32	276
4:15 PM	41	70	5	0	116	5	0	2	0	7	0	95	0	0	95	2	0	31	0	33	251
4:30 PM	52	79	0	0	131	2	0	1	0	3	2	81	0	0	83	0	1	32	0	33	250
4:45 PM	58	67	0	0	125	4	0	0	0	4	2	95	0	0	97	3	0	25	0	28	254
Total	211	289	6	0	506	13	0	4	0	17	4	378	0	0	382	5	1	120	0	126	1031
5:00 PM	73	82	0	0	155	1	0	0	0	1	1	78	0	0	79	0	0	28	0	28	263
5:15 PM	47	87	2	0	136	0	0	0	0	0	1	102	0	0	103	0	0	34	0	34	273
5:30 PM	35	74	2	0	111	0	0	2	0	2	0	90	0	0	90	0	0	42	0	42	245
5:45 PM	46	72	2	0	120	2	0	1	0	3	1	110	0	0	111	0	0	37	0	37	271
Total	201	315	6	0	522	3	0	3	0	6	3	380	0	0	383	0	0	141	0	141	1052
Grand Total	412	604	12	0	1028	16	0	7	0	23	7	758	0	0	765	5	1	261	0	267	2083
Approach %	40.1	58.8	1.2	0.0		69.6	0.0	30.4	0.0		0.9	99.1	0.0	0.0		1.9	0.4	97.8	0.0		
Total %	19.8	29.0	0.6	0.0	49.4	0.8	0.0	0.3	0.0	1.1	0.3	36.4	0.0	0.0	36.7	0.2	0.0	12.5	0.0	12.8	
Exiting Leg Total					1035					20					616					412	2083
Cars	408	587	12	0	1007	16	0	7	0	23	6	719	0	0	725	5	1	255	0	261	2016
% Cars	99.0	97.2	100.0	0.0	98.0	100.0	0.0	100.0	0.0	100.0	85.7	94.9	0.0	0.0	94.8	100.0	100.0	97.7	0.0	97.8	96.8
Exiting Leg Total					990					19					599					408	2016
Heavy Vehicles	4	17	0	0	21	0	0	0	0	0	1	39	0	0	40	0	0	6	0	6	67
% Heavy Vehicles	1.0	2.8	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	14.3	5.1	0.0	0.0	5.2	0.0	0.0	2.3	0.0	2.2	3.2
Exiting Leg Total					45					1					17					4	67

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
5:00 PM	73	82	0	0	155	1	0	0	0	1	1	78	0	0	79	0	0	28	0	28	263
5:15 PM	47	87	2	0	136	0	0	0	0	0	1	102	0	0	103	0	0	34	0	34	273
5:30 PM	35	74	2	0	111	0	0	2	0	2	0	90	0	0	90	0	0	42	0	42	245
5:45 PM	46	72	2	0	120	2	0	1	0	3	1	110	0	0	111	0	0	37	0	37	271
Total Volume	201	315	6	0	522	3	0	3	0	6	3	380	0	0	383	0	0	141	0	141	1052
% Approach Total	38.5	60.3	1.1	0.0		50.0	0.0	50.0	0.0		0.8	99.2	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.688	0.905	0.750	0.000	0.842	0.375	0.000	0.375	0.000	0.500	0.750	0.864	0.000	0.000	0.863	0.000	0.000	0.839	0.000	0.839	0.963
Cars	199	309	6	0	514	3	0	3	0	6	3	358	0	0	361	0	0	139	0	139	1020
Cars %	99.0	98.1	100.0	0.0	98.5	100.0	0.0	100.0	0.0	100.0	100.0	94.2	0.0	0.0	94.3	0.0	0.0	98.6	0.0	98.6	97.0
Heavy Vehicles	2	6	0	0	8	0	0	0	0	0	0	22	0	0	22	0	0	2	0	2	32
Heavy Vehicles %	1.0	1.9	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	5.8	0.0	0.0	5.7	0.0	0.0	1.4	0.0	1.4	3.0
Cars Enter Leg	199	309	6	0	514	3	0	3	0	6	3	358	0	0	361	0	0	139	0	139	1020
Heavy Enter Leg	2	6	0	0	8	0	0	0	0	0	0	22	0	0	22	0	0	2	0	2	32
Total Entering Leg	201	315	6	0	522	3	0	3	0	6	3	380	0	0	383	0	0	141	0	141	1052
Cars Exiting Leg					500					9					312					199	1020
Heavy Exiting Leg					24					0					6					2	32
Total Exiting Leg					524					9					318					201	1052

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	59	70	1	0	130	2	0	1	0	3	0	104	0	0	104	0	0	32	0	32	269
4:15 PM	41	69	5	0	115	5	0	2	0	7	0	91	0	0	91	2	0	30	0	32	245
4:30 PM	51	74	0	0	125	2	0	1	0	3	1	78	0	0	79	0	1	31	0	32	239
4:45 PM	58	65	0	0	123	4	0	0	0	4	2	88	0	0	90	3	0	23	0	26	243
Total	209	278	6	0	493	13	0	4	0	17	3	361	0	0	364	5	1	116	0	122	996
5:00 PM	73	81	0	0	154	1	0	0	0	1	1	69	0	0	70	0	0	26	0	26	251
5:15 PM	46	85	2	0	133	0	0	0	0	0	1	95	0	0	96	0	0	34	0	34	263
5:30 PM	35	72	2	0	109	0	0	2	0	2	0	88	0	0	88	0	0	42	0	42	241
5:45 PM	45	71	2	0	118	2	0	1	0	3	1	106	0	0	107	0	0	37	0	37	265
Total	199	309	6	0	514	3	0	3	0	6	3	358	0	0	361	0	0	139	0	139	1020
Grand Total	408	587	12	0	1007	16	0	7	0	23	6	719	0	0	725	5	1	255	0	261	2016
Approach %	40.5	58.3	1.2	0.0		69.6	0.0	30.4	0.0		0.8	99.2	0.0	0.0		1.9	0.4	97.7	0.0		
Total %	20.2	29.1	0.6	0.0	50.0	0.8	0.0	0.3	0.0	1.1	0.3	35.7	0.0	0.0	36.0	0.2	0.0	12.6	0.0	12.9	
Exiting Leg Total					990					19					599					408	2016

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
5:00 PM	73	81	0	0	154	1	0	0	0	1	1	69	0	0	70	0	0	26	0	26	251
5:15 PM	46	85	2	0	133	0	0	0	0	0	1	95	0	0	96	0	0	34	0	34	263
5:30 PM	35	72	2	0	109	0	0	2	0	2	0	88	0	0	88	0	0	42	0	42	241
5:45 PM	45	71	2	0	118	2	0	1	0	3	1	106	0	0	107	0	0	37	0	37	265
Total Volume	199	309	6	0	514	3	0	3	0	6	3	358	0	0	361	0	0	139	0	139	1020
% Approach Total	38.7	60.1	1.2	0.0		50.0	0.0	50.0	0.0		0.8	99.2	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.682	0.909	0.750	0.000	0.834	0.375	0.000	0.375	0.000	0.500	0.750	0.844	0.000	0.000	0.843	0.000	0.000	0.827	0.000	0.827	0.962
Entering Leg	199	309	6	0	514	3	0	3	0	6	3	358	0	0	361	0	0	139	0	139	1020
Exiting Leg					500					9					312					199	1020
Total					1014					15					673					338	2040

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	3	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	6
4:30 PM	1	5	0	0	6	0	0	0	0	0	1	3	0	0	4	0	0	1	0	1	11
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	7	0	0	7	0	0	2	0	2	11
Total	2	11	0	0	13	0	0	0	0	0	1	17	0	0	18	0	0	4	0	4	35
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	9	0	0	9	0	0	2	0	2	12
5:15 PM	1	2	0	0	3	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	10
5:30 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
5:45 PM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
Total	2	6	0	0	8	0	0	0	0	0	0	22	0	0	22	0	0	2	0	2	32
Grand Total	4	17	0	0	21	0	0	0	0	0	1	39	0	0	40	0	0	6	0	6	67
Approach %	19.0	81.0	0.0	0.0		0.0	0.0	0.0	0.0		2.5	97.5	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	6.0	25.4	0.0	0.0	31.3	0.0	0.0	0.0	0.0	0.0	1.5	58.2	0.0	0.0	59.7	0.0	0.0	9.0	0.0	9.0	
Exiting Leg Total					45					1					17					4	67
Buses	1	8	0	0	9	0	0	0	0	0	0	7	0	0	7	0	0	1	0	1	17
% Buses	25.0	47.1	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	0.0	17.9	0.0	0.0	17.5	0.0	0.0	16.7	0.0	16.7	25.4
Exiting Leg Total					8					0					8					1	17
Single-Unit Trucks	3	9	0	0	12	0	0	0	0	0	1	22	0	0	23	0	0	4	0	4	39
% Single-Unit	75.0	52.9	0.0	0.0	57.1	0.0	0.0	0.0	0.0	0.0	100.0	56.4	0.0	0.0	57.5	0.0	0.0	66.7	0.0	66.7	58.2
Exiting Leg Total					26					1					9					3	39
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	1	0	1	11
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.6	0.0	0.0	25.0	0.0	0.0	16.7	0.0	16.7	16.4
Exiting Leg Total					11					0					0					0	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:30 PM	1	5	0	0	6	0	0	0	0	0	1	3	0	0	4	0	0	1	0	1	11
4:45 PM	0	2	0	0	2	0	0	0	0	0	0	7	0	0	7	0	0	2	0	2	11
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	9	0	0	9	0	0	2	0	2	12
5:15 PM	1	2	0	0	3	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	10
Total Volume	2	10	0	0	12	0	0	0	0	0	1	26	0	0	27	0	0	5	0	5	44
% Approach Total	16.7	83.3	0.0	0.0		0.0	0.0	0.0	0.0		3.7	96.3	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.500	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.250	0.722	0.000	0.000	0.750	0.000	0.000	0.625	0.000	0.625	0.917
Buses	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	10
Buses %	0.0	50.0	0.0	0.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	15.4	0.0	0.0	14.8	0.0	0.0	20.0	0.0	20.0	22.7
Single-Unit Trucks	2	5	0	0	7	0	0	0	0	0	1	15	0	0	16	0	0	4	0	4	27
Single-Unit %	100.0	50.0	0.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	100.0	57.7	0.0	0.0	59.3	0.0	0.0	80.0	0.0	80.0	61.4
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	7
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.9	0.0	0.0	25.9	0.0	0.0	0.0	0.0	0.0	15.9
Buses	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	10
Single-Unit Trucks	2	5	0	0	7	0	0	0	0	0	1	15	0	0	16	0	0	4	0	4	27
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	7
Total Entering Leg	2	10	0	0	12	0	0	0	0	0	1	26	0	0	27	0	0	5	0	5	44
Buses					5					0					5					0	10
Single-Unit Trucks					19					1					5					2	27
Articulated Trucks					7					0					0					0	7
Total Exiting Leg					31					1					10					2	44

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Buses

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	1	5	0	0	6	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	9
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
5:15 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	0	3	0	0	3	0	0	0	0	0	0	4	0	0	4	0	0	1	0	1	8
Grand Total	1	8	0	0	9	0	0	0	0	0	0	7	0	0	7	0	0	1	0	1	17
Approach %	11.1	88.9	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	5.9	47.1	0.0	0.0	52.9	0.0	0.0	0.0	0.0	0.0	0.0	41.2	0.0	0.0	41.2	0.0	0.0	5.9	0.0	5.9	
Exiting Leg Total					8					0					8					1	17

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:30 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	3
Total Volume	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	10
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.000	0.333	0.000	0.000	0.333	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.000	0.000	0.625	0.000	0.000	0.250	0.000	0.250	0.625
Entering Leg	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	10
Exiting Leg					6					0					4					0	10
Total					10					0					9					1	20

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
4:30 PM	1	2	0	0	3	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	6
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	2	0	2	8
Total	1	6	0	0	7	0	0	0	0	0	1	9	0	0	10	0	0	3	0	3	20
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	7
5:15 PM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
5:45 PM	1	0	0	0	1	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	4
Total	2	3	0	0	5	0	0	0	0	0	0	13	0	0	13	0	0	1	0	1	19
Grand Total	3	9	0	0	12	0	0	0	0	0	1	22	0	0	23	0	0	4	0	4	39
Approach %	25.0	75.0	0.0	0.0		0.0	0.0	0.0	0.0		4.3	95.7	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	7.7	23.1	0.0	0.0	30.8	0.0	0.0	0.0	0.0	0.0	2.6	56.4	0.0	0.0	59.0	0.0	0.0	10.3	0.0	10.3	
Exiting Leg Total					26					1					9					3	39

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:30 PM	1	2	0	0	3	0	0	0	0	0	1	1	0	0	2	0	0	1	0	1	6
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	2	0	2	8
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	7
5:15 PM	1	1	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	6
Total Volume	2	5	0	0	7	0	0	0	0	0	1	15	0	0	16	0	0	4	0	4	27
% Approach Total	28.6	71.4	0.0	0.0		0.0	0.0	0.0	0.0		6.3	93.8	0.0	0.0		0.0	0.0	100.0	0.0		
PHF	0.500	0.625	0.000	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.250	0.750	0.000	0.000	0.800	0.000	0.000	0.500	0.000	0.500	0.844
Entering Leg	2	5	0	0	7	0	0	0	0	0	1	15	0	0	16	0	0	4	0	4	27
Exiting Leg					19					1					5					2	27
Total					26					1					21					6	54

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	6
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	5
Grand Total	0	0	0	0	0	0	0	0	0	0	0	10	0	0	10	0	0	1	0	1	11
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	100.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.9	0.0	0.0	90.9	0.0	0.0	9.1	0.0	9.1	
Exiting Leg Total					11					0					0					0	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North					Lowell Avenue from East					Walnut Street from South					Lowell Avenue from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total Volume	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	7
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.000	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.583
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	7
Exiting Leg					7					0					0					0	7
Total					7					0					7					0	14

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	1	2	3	0	3	0	0	0	0	3	0	0	0	0	0	0	0	7
4:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
4:30 PM	3	2	0	0	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	6
4:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	4
Total	3	5	0	0	0	0	8	0	0	0	0	1	3	4	1	5	0	0	0	1	7	0	0	0	0	0	0	0	19
5:00 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
5:15 PM	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	1	2	0	0	0	0	3	0	0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	5
Total	1	5	0	0	0	0	6	0	0	0	0	1	0	1	0	4	0	0	0	0	4	0	0	0	0	0	0	0	11
Grand Total	4	10	0	0	0	0	14	0	0	0	0	2	3	5	1	9	0	0	0	1	11	0	0	0	0	0	0	0	30
Approach %	28.6	71.4	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	40.0	60.0		9.1	81.8	0.0	0.0	0.0	9.1		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	13.3	33.3	0.0	0.0	0.0	0.0	46.7	0.0	0.0	0.0	0.0	6.7	10.0	16.7	3.3	30.0	0.0	0.0	0.0	3.3	36.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total							9							6							11							4	30

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	0	1	0	0	0	0	1	2	3	0	3	0	0	0	0	3	0	0	0	0	0	0	0	7
4:15 PM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
4:30 PM	3	2	0	0	0	0	5	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	6
4:45 PM	0	1	0	0	0	0	1	0	0	0	0	0	1	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	4
Total Volume	3	5	0	0	0	0	8	0	0	0	0	1	3	4	1	5	0	0	0	1	7	0	0	0	0	0	0	0	19
% Approach Total	37.5	62.5	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	25.0	75.0		14.3	71.4	0.0	0.0	0.0	14.3		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.250	0.625	0.000	0.000	0.000	0.000	0.400	0.000	0.000	0.000	0.000	0.250	0.375	0.333	0.250	0.417	0.000	0.000	0.000	0.250	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.679
Entering Leg	3	5	0	0	0	0	8	0	0	0	0	1	3	4	1	5	0	0	0	1	7	0	0	0	0	0	0	0	19
Exiting Leg							5							5							6							3	19
Total							13							9							13							3	38

PDI File #: **228976 C**
Location: **N: Walnut Street S: Walnut Street**
Location: **E: Lowell Avenue W: Lowell Avenue**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	7	22	29	0	0	0	0	0	2	2	0	0	0	0	16	5	21	52
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	7	5	12	0	0	0	0	0	0	0	0	0	0	0	10	0	10	22
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	4	2	6	0	0	0	0	0	1	1	0	0	0	0	3	1	4	11
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	4	1	5	10
Total	0	0	0	0	0	0	0	0	0	0	0	18	34	52	0	0	0	0	0	3	3	0	0	0	0	33	7	40	95
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	5	2	7	0	0	0	0	0	0	0	0	0	0	0	2	0	2	9
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	2	1	3	5
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	5	1	6	0	0	0	0	0	0	0	0	0	0	0	1	0	1	7
Total	0	0	0	0	0	0	0	0	0	0	0	11	6	17	0	0	0	0	0	0	0	0	0	0	0	5	1	6	23
Grand Total	0	0	0	0	0	0	0	0	0	0	0	29	40	69	0	0	0	0	0	3	3	0	0	0	0	38	8	46	118
Approach %	0	0	0	0	0	0		0	0	0	0	42	58		0	0	0	0	0	100		0	0	0	0	82.6	17.4		
Total %	0	0	0	0	0	0	0	0	0	0	0	24.6	33.9	58.5	0	0	0	0	0	2.54	2.54	0	0	0	0	32.2	6.78	39	
Exiting Leg Total							0							69							3							46	118

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North							Lowell Avenue from East							Walnut Street from South							Lowell Avenue from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	7	22	29	0	0	0	0	0	2	2	0	0	0	0	16	5	21	52
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	7	5	12	0	0	0	0	0	0	0	0	0	0	0	10	0	10	22
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	4	2	6	0	0	0	0	0	1	1	0	0	0	0	3	1	4	11
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	0	0	0	0	0	4	1	5	10
Total Volume	0	0	0	0	0	0	0	0	0	0	0	18	34	52	0	0	0	0	0	3	3	0	0	0	0	33	7	40	95
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	34.6	65.4		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	82.5	17.5		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.643	0.386	0.448	0.000	0.000	0.000	0.000	0.000	0.375	0.375	0.000	0.000	0.000	0.000	0.516	0.350	0.476	0.457
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	18	34	52	0	0	0	0	0	3	3	0	0	0	0	33	7	40	95
Exiting Leg							0							52							3							40	95
Total							0							104							6							80	190

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Cars and Heavy Vehicles (Combined)

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	69	0	70	42	1	0	43	0	0	0	0	113
7:15 AM	0	87	0	87	45	0	0	45	0	0	0	0	132
7:30 AM	0	63	0	63	92	4	1	97	0	0	0	0	160
7:45 AM	1	84	0	85	74	2	0	76	0	0	0	0	161
Total	2	303	0	305	253	7	1	261	0	0	0	0	566
8:00 AM	1	81	0	82	84	1	0	85	0	1	0	1	168
8:15 AM	0	107	0	107	87	0	0	87	0	0	0	0	194
8:30 AM	0	89	0	89	98	1	0	99	0	1	0	1	189
8:45 AM	1	102	0	103	106	1	0	107	1	0	0	1	211
Total	2	379	0	381	375	3	0	378	1	2	0	3	762
Grand Total	4	682	0	686	628	10	1	639	1	2	0	3	1328
Approach %	0.6	99.4	0.0		98.3	1.6	0.2		33.3	66.7	0.0		
Total %	0.3	51.4	0.0	51.7	47.3	0.8	0.1	48.1	0.1	0.2	0.0	0.2	
Exiting Leg Total				630				684				14	1328
Cars	4	623	0	627	602	10	1	613	1	2	0	3	1243
% Cars	100.0	91.3	0.0	91.4	95.9	100.0	100.0	95.9	100.0	100.0	0.0	100.0	93.6
Exiting Leg Total				604				625				14	1243
Heavy Vehicles	0	59	0	59	26	0	0	26	0	0	0	0	85
% Heavy Vehicles	0.0	8.7	0.0	8.6	4.1	0.0	0.0	4.1	0.0	0.0	0.0	0.0	6.4
Exiting Leg Total				26				59				0	85

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	1	81	0	82	84	1	0	85	0	1	0	1	168
8:15 AM	0	107	0	107	87	0	0	87	0	0	0	0	194
8:30 AM	0	89	0	89	98	1	0	99	0	1	0	1	189
8:45 AM	1	102	0	103	106	1	0	107	1	0	0	1	211
Total Volume	2	379	0	381	375	3	0	378	1	2	0	3	762
% Approach Total	0.5	99.5	0.0		99.2	0.8	0.0		33.3	66.7	0.0		
PHF	0.500	0.886	0.000	0.890	0.884	0.750	0.000	0.883	0.250	0.500	0.000	0.750	0.903
Cars	2	355	0	357	355	3	0	358	1	2	0	3	718
Cars %	100.0	93.7	0.0	93.7	94.7	100.0	0.0	94.7	100.0	100.0	0.0	100.0	94.2
Heavy Vehicles	0	24	0	24	20	0	0	20	0	0	0	0	44
Heavy Vehicles %	0.0	6.3	0.0	6.3	5.3	0.0	0.0	5.3	0.0	0.0	0.0	0.0	5.8
Cars Enter Leg	2	355	0	357	355	3	0	358	1	2	0	3	718
Heavy Enter Leg	0	24	0	24	20	0	0	20	0	0	0	0	44
Total Entering Leg	2	379	0	381	375	3	0	378	1	2	0	3	762
Cars Exiting Leg				357				356				5	718
Heavy Exiting Leg				20				24				0	44
Total Exiting Leg				377				380				5	762

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	59	0	60	41	1	0	42	0	0	0	0	102
7:15 AM	0	73	0	73	44	0	0	44	0	0	0	0	117
7:30 AM	0	56	0	56	91	4	1	96	0	0	0	0	152
7:45 AM	1	80	0	81	71	2	0	73	0	0	0	0	154
Total	2	268	0	270	247	7	1	255	0	0	0	0	525
8:00 AM	1	77	0	78	80	1	0	81	0	1	0	1	160
8:15 AM	0	102	0	102	81	0	0	81	0	0	0	0	183
8:30 AM	0	80	0	80	93	1	0	94	0	1	0	1	175
8:45 AM	1	96	0	97	101	1	0	102	1	0	0	1	200
Total	2	355	0	357	355	3	0	358	1	2	0	3	718
Grand Total	4	623	0	627	602	10	1	613	1	2	0	3	1243
Approach %	0.6	99.4	0.0		98.2	1.6	0.2		33.3	66.7	0.0		
Total %	0.3	50.1	0.0	50.4	48.4	0.8	0.1	49.3	0.1	0.2	0.0	0.2	
Exiting Leg Total				604				625				14	1243

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	1	77	0	78	80	1	0	81	0	1	0	1	160
8:15 AM	0	102	0	102	81	0	0	81	0	0	0	0	183
8:30 AM	0	80	0	80	93	1	0	94	0	1	0	1	175
8:45 AM	1	96	0	97	101	1	0	102	1	0	0	1	200
Total Volume	2	355	0	357	355	3	0	358	1	2	0	3	718
% Approach Total	0.6	99.4	0.0		99.2	0.8	0.0		33.3	66.7	0.0		
PHF	0.500	0.870	0.000	0.875	0.879	0.750	0.000	0.877	0.250	0.500	0.000	0.750	0.898
Entering Leg	2	355	0	357	355	3	0	358	1	2	0	3	718
Exiting Leg				357				356				5	718
Total				714				714				8	1436

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	10	0	10	1	0	0	1	0	0	0	0	11
7:15 AM	0	14	0	14	1	0	0	1	0	0	0	0	15
7:30 AM	0	7	0	7	1	0	0	1	0	0	0	0	8
7:45 AM	0	4	0	4	3	0	0	3	0	0	0	0	7
Total	0	35	0	35	6	0	0	6	0	0	0	0	41
8:00 AM	0	4	0	4	4	0	0	4	0	0	0	0	8
8:15 AM	0	5	0	5	6	0	0	6	0	0	0	0	11
8:30 AM	0	9	0	9	5	0	0	5	0	0	0	0	14
8:45 AM	0	6	0	6	5	0	0	5	0	0	0	0	11
Total	0	24	0	24	20	0	0	20	0	0	0	0	44
Grand Total	0	59	0	59	26	0	0	26	0	0	0	0	85
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	69.4	0.0	69.4	30.6	0.0	0.0	30.6	0.0	0.0	0.0	0.0	
Exiting Leg Total				26				59				0	85
Buses	0	9	0	9	11	0	0	11	0	0	0	0	20
% Buses	0.0	15.3	0.0	15.3	42.3	0.0	0.0	42.3	0.0	0.0	0.0	0.0	23.5
Exiting Leg Total				11				9				0	20
Single-Unit Trucks	0	28	0	28	13	0	0	13	0	0	0	0	41
% Single-Unit	0.0	47.5	0.0	47.5	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	48.2
Exiting Leg Total				13				28				0	41
Articulated Trucks	0	22	0	22	2	0	0	2	0	0	0	0	24
% Articulated	0.0	37.3	0.0	37.3	7.7	0.0	0.0	7.7	0.0	0.0	0.0	0.0	28.2
Exiting Leg Total				2				22				0	24

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	4	0	4	4	0	0	4	0	0	0	0	8
8:15 AM	0	5	0	5	6	0	0	6	0	0	0	0	11
8:30 AM	0	9	0	9	5	0	0	5	0	0	0	0	14
8:45 AM	0	6	0	6	5	0	0	5	0	0	0	0	11
Total Volume	0	24	0	24	20	0	0	20	0	0	0	0	44
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.667	0.000	0.667	0.833	0.000	0.000	0.833	0.000	0.000	0.000	0.000	0.786
Buses	0	3	0	3	6	0	0	6	0	0	0	0	9
Buses %	0.0	12.5	0.0	12.5	30.0	0.0	0.0	30.0	0.0	0.0	0.0	0.0	20.5
Single-Unit Trucks	0	13	0	13	12	0	0	12	0	0	0	0	25
Single-Unit %	0.0	54.2	0.0	54.2	60.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	56.8
Articulated Trucks	0	8	0	8	2	0	0	2	0	0	0	0	10
Articulated %	0.0	33.3	0.0	33.3	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	22.7
Buses	0	3	0	3	6	0	0	6	0	0	0	0	9
Single-Unit Trucks	0	13	0	13	12	0	0	12	0	0	0	0	25
Articulated Trucks	0	8	0	8	2	0	0	2	0	0	0	0	10
Total Entering Leg	0	24	0	24	20	0	0	20	0	0	0	0	44
Buses				6				3				0	9
Single-Unit Trucks				12				13				0	25
Articulated Trucks				2				8				0	10
Total Exiting Leg				20				24				0	44

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:30 AM	0	4	0	4	1	0	0	1	0	0	0	0	5
7:45 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total	0	6	0	6	5	0	0	5	0	0	0	0	11
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
8:30 AM	0	1	0	1	2	0	0	2	0	0	0	0	3
8:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	3	0	3	6	0	0	6	0	0	0	0	9
Grand Total	0	9	0	9	11	0	0	11	0	0	0	0	20
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	45.0	0.0	45.0	55.0	0.0	0.0	55.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				11				9				0	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:30 AM	0	4	0	4	1	0	0	1	0	0	0	0	5
7:45 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	6	0	6	5	0	0	5	0	0	0	0	11
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.375	0.000	0.375	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.550
Entering Leg	0	6	0	6	5	0	0	5	0	0	0	0	11
Exiting Leg				5				6				0	11
Total				11				11				0	22

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
7:15 AM	0	9	0	9	0	0	0	0	0	0	0	0	9
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	2	1	0	0	1	0	0	0	0	3
Total	0	15	0	15	1	0	0	1	0	0	0	0	16
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
8:30 AM	0	6	0	6	3	0	0	3	0	0	0	0	9
8:45 AM	0	3	0	3	4	0	0	4	0	0	0	0	7
Total	0	13	0	13	12	0	0	12	0	0	0	0	25
Grand Total	0	28	0	28	13	0	0	13	0	0	0	0	41
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	68.3	0.0	68.3	31.7	0.0	0.0	31.7	0.0	0.0	0.0	0.0	
Exiting Leg Total				13				28				0	41

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
8:30 AM	0	6	0	6	3	0	0	3	0	0	0	0	9
8:45 AM	0	3	0	3	4	0	0	4	0	0	0	0	7
Total Volume	0	13	0	13	12	0	0	12	0	0	0	0	25
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.542	0.000	0.542	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.694
Entering Leg	0	13	0	13	12	0	0	12	0	0	0	0	25
Exiting Leg				12				13				0	25
Total				25				25				0	50

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Articulated Trucks**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	14	0	14	0	0	0	0	0	0	0	0	14
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	8	0	8	2	0	0	2	0	0	0	0	10
Grand Total	0	22	0	22	2	0	0	2	0	0	0	0	24
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	91.7	0.0	91.7	8.3	0.0	0.0	8.3	0.0	0.0	0.0	0.0	
Exiting Leg Total				2				22				0	24

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total Volume	0	14	0	14	0	0	0	0	0	0	0	0	14
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583
Entering Leg	0	14	0	14	0	0	0	0	0	0	0	0	14
Exiting Leg				0				14				0	14
Total				14				14				0	28

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2
7:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
7:30 AM	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	2	0	2	4
Total	0	3	0	0	0	3	7	0	0	0	0	7	0	0	0	2	0	2	12
8:00 AM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:45 AM	2	9	0	0	0	11	2	0	0	0	0	2	0	0	0	0	5	5	18
Total	3	13	0	0	0	16	6	0	0	0	0	6	0	0	0	0	5	5	27
Grand Total	3	16	0	0	0	19	13	0	0	0	0	13	0	0	0	2	5	7	39
Approach %	15.8	84.2	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	28.6	71.4		
Total %	7.7	41.0	0.0	0.0	0.0	48.7	33.3	0.0	0.0	0.0	0.0	33.3	0.0	0.0	0.0	5.1	12.8	17.9	
Exiting Leg Total						13						16						10	39

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	1	1	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:45 AM	2	9	0	0	0	11	2	0	0	0	0	2	0	0	0	0	5	5	18
Total Volume	3	13	0	0	0	16	6	0	0	0	0	6	0	0	0	0	5	5	27
% Approach Total	18.8	81.3	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		
PHF	0.375	0.361	0.000	0.000	0.000	0.364	0.750	0.000	0.000	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.250	0.250	0.375
Entering Leg	3	13	0	0	0	16	6	0	0	0	0	6	0	0	0	0	5	5	27
Exiting Leg						6						13						8	27
Total						22						19						13	54

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
7:15 AM	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	3	3	6	9
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	14	14
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Total	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	17	6	23	26
8:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	3	5	6
8:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	9	10	11
8:30 AM	0	0	0	1	1	2	0	0	0	1	0	1	0	0	0	1	9	10	13
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	11	11	12
Total	0	0	0	3	1	4	0	0	0	1	1	2	0	0	0	4	32	36	42
Grand Total	0	0	0	3	1	4	0	0	0	2	3	5	0	0	0	21	38	59	68
Approach %	0	0	0	75	25		0	0	0	40	60		0	0	0	35.593	64.407		
Total %	0	0	0	4.4118	1.4706	5.8824	0	0	0	2.9412	4.4118	7.3529	0	0	0	30.882	55.882	86.765	
Exiting Leg Total						4						5						59	68

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	2	3	5	6
8:15 AM	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	1	9	10	11
8:30 AM	0	0	0	1	1	2	0	0	0	1	0	1	0	0	0	1	9	10	13
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	11	11	12
Total Volume	0	0	0	3	1	4	0	0	0	1	1	2	0	0	0	4	32	36	42
% Approach Total	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	11.1	88.9		
PHF	0.000	0.000	0.000	0.750	0.250	0.500	0.000	0.000	0.000	0.250	0.250	0.500	0.000	0.000	0.000	0.500	0.727	0.818	0.808
Entering Leg	0	0	0	3	1	4	0	0	0	1	1	2	0	0	0	4	32	36	42
Exiting Leg						4						2						36	42
Total						8						4						72	84

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	2	66	0	68	108	4	0	112	0	0	0	0	180
4:15 PM	1	72	0	73	84	2	0	86	0	0	0	0	159
4:30 PM	0	82	0	82	86	0	0	86	0	0	0	0	168
4:45 PM	4	66	0	70	93	2	0	95	0	0	0	0	165
Total	7	286	0	293	371	8	0	379	0	0	0	0	672
5:00 PM	0	77	0	77	73	6	0	79	0	0	0	0	156
5:15 PM	3	87	0	90	106	3	0	109	0	0	0	0	199
5:30 PM	0	84	0	84	80	5	1	86	0	0	0	0	170
5:45 PM	3	71	0	74	114	1	0	115	0	0	0	0	189
Total	6	319	0	325	373	15	1	389	0	0	0	0	714
Grand Total	13	605	0	618	744	23	1	768	0	0	0	0	1386
Approach %	2.1	97.9	0.0		96.9	3.0	0.1		0.0	0.0	0.0		
Total %	0.9	43.7	0.0	44.6	53.7	1.7	0.1	55.4	0.0	0.0	0.0	0.0	
Exiting Leg Total				744				606				36	1386
Cars	12	589	0	601	708	22	1	731	0	0	0	0	1332
% Cars	92.3	97.4	0.0	97.2	95.2	95.7	100.0	95.2	0.0	0.0	0.0	0.0	96.1
Exiting Leg Total				708				590				34	1332
Heavy Vehicles	1	16	0	17	36	1	0	37	0	0	0	0	54
% Heavy Vehicles	7.7	2.6	0.0	2.8	4.8	4.3	0.0	4.8	0.0	0.0	0.0	0.0	3.9
Exiting Leg Total				36				16				2	54

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	0	77	0	77	73	6	0	79	0	0	0	0	156
5:15 PM	3	87	0	90	106	3	0	109	0	0	0	0	199
5:30 PM	0	84	0	84	80	5	1	86	0	0	0	0	170
5:45 PM	3	71	0	74	114	1	0	115	0	0	0	0	189
Total Volume	6	319	0	325	373	15	1	389	0	0	0	0	714
% Approach Total	1.8	98.2	0.0		95.9	3.9	0.3		0.0	0.0	0.0		
PHF	0.500	0.917	0.000	0.903	0.818	0.625	0.250	0.846	0.000	0.000	0.000	0.000	0.897
Cars	5	313	0	318	356	14	1	371	0	0	0	0	689
Cars %	83.3	98.1	0.0	97.8	95.4	93.3	100.0	95.4	0.0	0.0	0.0	0.0	96.5
Heavy Vehicles	1	6	0	7	17	1	0	18	0	0	0	0	25
Heavy Vehicles %	16.7	1.9	0.0	2.2	4.6	6.7	0.0	4.6	0.0	0.0	0.0	0.0	3.5
Cars Enter Leg	5	313	0	318	356	14	1	371	0	0	0	0	689
Heavy Enter Leg	1	6	0	7	17	1	0	18	0	0	0	0	25
Total Entering Leg	6	319	0	325	373	15	1	389	0	0	0	0	714
Cars Exiting Leg				356				314				19	689
Heavy Exiting Leg				17				6				2	25
Total Exiting Leg				373				320				21	714

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	2	64	0	66	105	4	0	109	0	0	0	0	175
4:15 PM	1	71	0	72	79	2	0	81	0	0	0	0	153
4:30 PM	0	78	0	78	82	0	0	82	0	0	0	0	160
4:45 PM	4	63	0	67	86	2	0	88	0	0	0	0	155
Total	7	276	0	283	352	8	0	360	0	0	0	0	643
5:00 PM	0	76	0	76	67	6	0	73	0	0	0	0	149
5:15 PM	3	85	0	88	99	3	0	102	0	0	0	0	190
5:30 PM	0	82	0	82	79	4	1	84	0	0	0	0	166
5:45 PM	2	70	0	72	111	1	0	112	0	0	0	0	184
Total	5	313	0	318	356	14	1	371	0	0	0	0	689
Grand Total	12	589	0	601	708	22	1	731	0	0	0	0	1332
Approach %	2.0	98.0	0.0		96.9	3.0	0.1		0.0	0.0	0.0		
Total %	0.9	44.2	0.0	45.1	53.2	1.7	0.1	54.9	0.0	0.0	0.0	0.0	
Exiting Leg Total				708				590				34	1332

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	0	76	0	76	67	6	0	73	0	0	0	0	149
5:15 PM	3	85	0	88	99	3	0	102	0	0	0	0	190
5:30 PM	0	82	0	82	79	4	1	84	0	0	0	0	166
5:45 PM	2	70	0	72	111	1	0	112	0	0	0	0	184
Total Volume	5	313	0	318	356	14	1	371	0	0	0	0	689
% Approach Total	1.6	98.4	0.0		96.0	3.8	0.3		0.0	0.0	0.0		
PHF	0.417	0.921	0.000	0.903	0.802	0.583	0.250	0.828	0.000	0.000	0.000	0.000	0.907
Entering Leg	5	313	0	318	356	14	1	371	0	0	0	0	689
Exiting Leg				356				314				19	689
Total				674				685				19	1378

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	2	0	2	3	0	0	3	0	0	0	0	5
4:15 PM	0	1	0	1	5	0	0	5	0	0	0	0	6
4:30 PM	0	4	0	4	4	0	0	4	0	0	0	0	8
4:45 PM	0	3	0	3	7	0	0	7	0	0	0	0	10
Total	0	10	0	10	19	0	0	19	0	0	0	0	29
5:00 PM	0	1	0	1	6	0	0	6	0	0	0	0	7
5:15 PM	0	2	0	2	7	0	0	7	0	0	0	0	9
5:30 PM	0	2	0	2	1	1	0	2	0	0	0	0	4
5:45 PM	1	1	0	2	3	0	0	3	0	0	0	0	5
Total	1	6	0	7	17	1	0	18	0	0	0	0	25
Grand Total	1	16	0	17	36	1	0	37	0	0	0	0	54
Approach %	5.9	94.1	0.0		97.3	2.7	0.0		0.0	0.0	0.0		
Total %	1.9	29.6	0.0	31.5	66.7	1.9	0.0	68.5	0.0	0.0	0.0	0.0	
Exiting Leg Total				36				16				2	54
Buses	0	8	0	8	7	0	0	7	0	0	0	0	15
% Buses	0.0	50.0	0.0	47.1	19.4	0.0	0.0	18.9	0.0	0.0	0.0	0.0	27.8
Exiting Leg Total				7				8				0	15
Single-Unit Trucks	1	7	0	8	17	1	0	18	0	0	0	0	26
% Single-Unit	100.0	43.8	0.0	47.1	47.2	100.0	0.0	48.6	0.0	0.0	0.0	0.0	48.1
Exiting Leg Total				17				7				2	26
Articulated Trucks	0	1	0	1	12	0	0	12	0	0	0	0	13
% Articulated	0.0	6.3	0.0	5.9	33.3	0.0	0.0	32.4	0.0	0.0	0.0	0.0	24.1
Exiting Leg Total				12				1				0	13

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	4	0	4	4	0	0	4	0	0	0	0	8
4:45 PM	0	3	0	3	7	0	0	7	0	0	0	0	10
5:00 PM	0	1	0	1	6	0	0	6	0	0	0	0	7
5:15 PM	0	2	0	2	7	0	0	7	0	0	0	0	9
Total Volume	0	10	0	10	24	0	0	24	0	0	0	0	34
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.625	0.857	0.000	0.000	0.857	0.000	0.000	0.000	0.000	0.850
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Buses %	0.0	50.0	0.0	50.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	26.5
Single-Unit Trucks	0	5	0	5	10	0	0	10	0	0	0	0	15
Single-Unit %	0.0	50.0	0.0	50.0	41.7	0.0	0.0	41.7	0.0	0.0	0.0	0.0	44.1
Articulated Trucks	0	0	0	0	10	0	0	10	0	0	0	0	10
Articulated %	0.0	0.0	0.0	0.0	41.7	0.0	0.0	41.7	0.0	0.0	0.0	0.0	29.4
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Single-Unit Trucks	0	5	0	5	10	0	0	10	0	0	0	0	15
Articulated Trucks	0	0	0	0	10	0	0	10	0	0	0	0	10
Total Entering Leg	0	10	0	10	24	0	0	24	0	0	0	0	34
Buses				4				5				0	9
Single-Unit Trucks				10				5				0	15
Articulated Trucks				10				0				0	10
Total Exiting Leg				24				10				0	34

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	5	0	5	3	0	0	3	0	0	0	0	8
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	3	0	3	4	0	0	4	0	0	0	0	7
Grand Total	0	8	0	8	7	0	0	7	0	0	0	0	15
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	53.3	0.0	53.3	46.7	0.0	0.0	46.7	0.0	0.0	0.0	0.0	
Exiting Leg Total				7				8				0	15

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	4	0	4	5	0	0	5	0	0	0	0	9
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.333	0.000	0.333	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.563
Entering Leg	0	4	0	4	5	0	0	5	0	0	0	0	9
Exiting Leg				5				4				0	9
Total				9				9				0	18

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
4:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
4:30 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
4:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
Total	0	4	0	4	9	0	0	9	0	0	0	0	13
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
5:15 PM	0	1	0	1	4	0	0	4	0	0	0	0	5
5:30 PM	0	1	0	1	0	1	0	1	0	0	0	0	2
5:45 PM	1	0	0	1	2	0	0	2	0	0	0	0	3
Total	1	3	0	4	8	1	0	9	0	0	0	0	13
Grand Total	1	7	0	8	17	1	0	18	0	0	0	0	26
Approach %	12.5	87.5	0.0		94.4	5.6	0.0		0.0	0.0	0.0		
Total %	3.8	26.9	0.0	30.8	65.4	3.8	0.0	69.2	0.0	0.0	0.0	0.0	
Exiting Leg Total				17				7				2	26

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
4:45 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
5:15 PM	0	1	0	1	4	0	0	4	0	0	0	0	5
Total Volume	0	5	0	5	10	0	0	10	0	0	0	0	15
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.625	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	5	0	5	10	0	0	10	0	0	0	0	15
Exiting Leg				10				5				0	15
Total				15				15				0	30

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	4	0	0	4	0	0	0	0	4
Total	0	1	0	1	7	0	0	7	0	0	0	0	8
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
5:15 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	5	0	0	5	0	0	0	0	5
Grand Total	0	1	0	1	12	0	0	12	0	0	0	0	13
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	7.7	0.0	7.7	92.3	0.0	0.0	92.3	0.0	0.0	0.0	0.0	
Exiting Leg Total				12				1				0	13

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North				Walnut Street from South				Foster Street from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:15 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	4	0	0	4	0	0	0	0	4
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	1	0	1	9	0	0	9	0	0	0	0	10
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.250	0.000	0.250	0.563	0.000	0.000	0.563	0.000	0.000	0.000	0.000	0.625
Entering Leg	0	1	0	1	9	0	0	9	0	0	0	0	10
Exiting Leg				9				1				0	10
Total				10				10				0	20

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	4	0	0	0	0	4	0	0	0	0	0	0	5
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	4	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	5
4:45 PM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
Total	0	7	0	0	0	7	6	0	0	0	0	6	0	0	0	0	0	0	13
5:00 PM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
5:15 PM	0	2	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
Total	0	5	0	0	0	5	4	0	0	0	0	4	0	0	0	0	0	0	9
Grand Total	0	12	0	0	0	12	10	0	0	0	0	10	0	0	0	0	0	0	22
Approach %	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
Total %	0.0	54.5	0.0	0.0	0.0	54.5	45.5	0.0	0.0	0.0	0.0	45.5	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total						10						12						0	22

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	4	0	0	0	0	4	0	0	0	0	0	0	5
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	4	0	0	0	4	1	0	0	0	0	1	0	0	0	0	0	0	5
4:45 PM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
Total Volume	0	7	0	0	0	7	6	0	0	0	0	6	0	0	0	0	0	0	13
% Approach Total	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.438	0.000	0.000	0.000	0.438	0.375	0.000	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.650
Entering Leg	0	7	0	0	0	7	6	0	0	0	0	6	0	0	0	0	0	0	13
Exiting Leg						6						7						0	13
Total						13						13						0	26

PDI File #: **228976 D**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	3	0	3	0	0	0	0	1	1	0	0	0	30	4	34	38
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	12	12
4:30 PM	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	5	5	10	13
4:45 PM	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	15	6	21	26
Total	0	0	0	6	5	11	0	0	0	0	1	1	0	0	0	56	21	77	89
5:00 PM	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	5	3	8	9
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	6	6
5:30 PM	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	2	2	4	6
5:45 PM	0	0	0	0	2	2	0	0	0	0	1	1	0	0	0	2	1	3	6
Total	0	0	0	1	4	5	0	0	0	0	1	1	0	0	0	13	8	21	27
Grand Total	0	0	0	7	9	16	0	0	0	0	2	2	0	0	0	69	29	98	116
Approach %	0	0	0	43.75	56.25		0	0	0	0	100		0	0	0	70.408	29.592		
Total %	0	0	0	6.0345	7.7586	13.793	0	0	0	0	1.7241	1.7241	0	0	0	59.483	25	84.483	
Exiting Leg Total						16						2						98	116

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Foster Street from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	3	0	3	0	0	0	0	1	1	0	0	0	30	4	34	38
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	6	12	12
4:30 PM	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	5	5	10	13
4:45 PM	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	15	6	21	26
Total Volume	0	0	0	6	5	11	0	0	0	0	1	1	0	0	0	56	21	77	89
% Approach Total	0.0	0.0	0.0	54.5	45.5		0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	72.7	27.3		
PHF	0.000	0.000	0.000	0.500	0.417	0.550	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.467	0.875	0.566	0.586
Entering Leg	0	0	0	6	5	11	0	0	0	0	1	1	0	0	0	56	21	77	89
Exiting Leg						11						1						77	89
Total						22						2						154	178

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Cars and Heavy Vehicles (Combined)

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	67	0	68	42	3	0	45	3	0	0	3	116
7:15 AM	2	83	0	85	44	3	0	47	1	2	0	3	135
7:30 AM	3	66	0	69	94	5	0	99	5	2	0	7	175
7:45 AM	2	83	0	85	76	3	0	79	2	0	0	2	166
Total	8	299	0	307	256	14	0	270	11	4	0	15	592
8:00 AM	1	75	0	76	82	3	0	85	7	1	0	8	169
8:15 AM	4	102	0	106	84	4	0	88	6	3	0	9	203
8:30 AM	2	86	0	88	95	4	0	99	5	6	0	11	198
8:45 AM	7	97	0	104	95	2	0	97	7	9	0	16	217
Total	14	360	0	374	356	13	0	369	25	19	0	44	787
Grand Total	22	659	0	681	612	27	0	639	36	23	0	59	1379
Approach %	3.2	96.8	0.0		95.8	4.2	0.0		61.0	39.0	0.0		
Total %	1.6	47.8	0.0	49.4	44.4	2.0	0.0	46.3	2.6	1.7	0.0	4.3	
Exiting Leg Total				635				695				49	1379
Cars	19	599	0	618	584	25	0	609	34	23	0	57	1284
% Cars	86.4	90.9	0.0	90.7	95.4	92.6	0.0	95.3	94.4	100.0	0.0	96.6	93.1
Exiting Leg Total				607				633				44	1284
Heavy Vehicles	3	60	0	63	28	2	0	30	2	0	0	2	95
% Heavy Vehicles	13.6	9.1	0.0	9.3	4.6	7.4	0.0	4.7	5.6	0.0	0.0	3.4	6.9
Exiting Leg Total				28				62				5	95

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	1	75	0	76	82	3	0	85	7	1	0	8	169
8:15 AM	4	102	0	106	84	4	0	88	6	3	0	9	203
8:30 AM	2	86	0	88	95	4	0	99	5	6	0	11	198
8:45 AM	7	97	0	104	95	2	0	97	7	9	0	16	217
Total Volume	14	360	0	374	356	13	0	369	25	19	0	44	787
% Approach Total	3.7	96.3	0.0		96.5	3.5	0.0		56.8	43.2	0.0		
PHF	0.500	0.882	0.000	0.882	0.937	0.813	0.000	0.932	0.893	0.528	0.000	0.688	0.907
Cars	14	334	0	348	334	13	0	347	23	19	0	42	737
Cars %	100.0	92.8	0.0	93.0	93.8	100.0	0.0	94.0	92.0	100.0	0.0	95.5	93.6
Heavy Vehicles	0	26	0	26	22	0	0	22	2	0	0	2	50
Heavy Vehicles %	0.0	7.2	0.0	7.0	6.2	0.0	0.0	6.0	8.0	0.0	0.0	4.5	6.4
Cars Enter Leg	14	334	0	348	334	13	0	347	23	19	0	42	737
Heavy Enter Leg	0	26	0	26	22	0	0	22	2	0	0	2	50
Total Entering Leg	14	360	0	374	356	13	0	369	25	19	0	44	787
Cars Exiting Leg				353				357				27	737
Heavy Exiting Leg				22				28				0	50
Total Exiting Leg				375				385				27	787

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	1	57	0	58	41	2	0	43	3	0	0	3	104
7:15 AM	0	69	0	69	43	3	0	46	1	2	0	3	118
7:30 AM	2	61	0	63	93	4	0	97	5	2	0	7	167
7:45 AM	2	78	0	80	73	3	0	76	2	0	0	2	158
Total	5	265	0	270	250	12	0	262	11	4	0	15	547
8:00 AM	1	70	0	71	77	3	0	80	6	1	0	7	158
8:15 AM	4	97	0	101	77	4	0	81	6	3	0	9	191
8:30 AM	2	77	0	79	90	4	0	94	5	6	0	11	184
8:45 AM	7	90	0	97	90	2	0	92	6	9	0	15	204
Total	14	334	0	348	334	13	0	347	23	19	0	42	737
Grand Total	19	599	0	618	584	25	0	609	34	23	0	57	1284
Approach %	3.1	96.9	0.0		95.9	4.1	0.0		59.6	40.4	0.0		
Total %	1.5	46.7	0.0	48.1	45.5	1.9	0.0	47.4	2.6	1.8	0.0	4.4	
Exiting Leg Total				607				633				44	1284

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	1	70	0	71	77	3	0	80	6	1	0	7	158
8:15 AM	4	97	0	101	77	4	0	81	6	3	0	9	191
8:30 AM	2	77	0	79	90	4	0	94	5	6	0	11	184
8:45 AM	7	90	0	97	90	2	0	92	6	9	0	15	204
Total Volume	14	334	0	348	334	13	0	347	23	19	0	42	737
% Approach Total	4.0	96.0	0.0		96.3	3.7	0.0		54.8	45.2	0.0		
PHF	0.500	0.861	0.000	0.861	0.928	0.813	0.000	0.923	0.958	0.528	0.000	0.700	0.903
Entering Leg	14	334	0	348	334	13	0	347	23	19	0	42	737
Exiting Leg				353				357				27	737
Total				701				704				69	1474

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	10	0	10	1	1	0	2	0	0	0	0	12
7:15 AM	2	14	0	16	1	0	0	1	0	0	0	0	17
7:30 AM	1	5	0	6	1	1	0	2	0	0	0	0	8
7:45 AM	0	5	0	5	3	0	0	3	0	0	0	0	8
Total	3	34	0	37	6	2	0	8	0	0	0	0	45
8:00 AM	0	5	0	5	5	0	0	5	1	0	0	1	11
8:15 AM	0	5	0	5	7	0	0	7	0	0	0	0	12
8:30 AM	0	9	0	9	5	0	0	5	0	0	0	0	14
8:45 AM	0	7	0	7	5	0	0	5	1	0	0	1	13
Total	0	26	0	26	22	0	0	22	2	0	0	2	50
Grand Total	3	60	0	63	28	2	0	30	2	0	0	2	95
Approach %	4.8	95.2	0.0		93.3	6.7	0.0		100.0	0.0	0.0		
Total %	3.2	63.2	0.0	66.3	29.5	2.1	0.0	31.6	2.1	0.0	0.0	2.1	
Exiting Leg Total				28				62				5	95
Buses	0	8	0	8	13	0	0	13	0	0	0	0	21
% Buses	0.0	13.3	0.0	12.7	46.4	0.0	0.0	43.3	0.0	0.0	0.0	0.0	22.1
Exiting Leg Total				13				8				0	21
Single-Unit Trucks	3	28	0	31	13	2	0	15	2	0	0	2	48
% Single-Unit	100.0	46.7	0.0	49.2	46.4	100.0	0.0	50.0	100.0	0.0	0.0	100.0	50.5
Exiting Leg Total				13				30				5	48
Articulated Trucks	0	24	0	24	2	0	0	2	0	0	0	0	26
% Articulated	0.0	40.0	0.0	38.1	7.1	0.0	0.0	6.7	0.0	0.0	0.0	0.0	27.4
Exiting Leg Total				2				24				0	26

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	5	0	5	5	0	0	5	1	0	0	1	11
8:15 AM	0	5	0	5	7	0	0	7	0	0	0	0	12
8:30 AM	0	9	0	9	5	0	0	5	0	0	0	0	14
8:45 AM	0	7	0	7	5	0	0	5	1	0	0	1	13
Total Volume	0	26	0	26	22	0	0	22	2	0	0	2	50
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.722	0.000	0.722	0.786	0.000	0.000	0.786	0.500	0.000	0.000	0.500	0.893
Buses	0	2	0	2	8	0	0	8	0	0	0	0	10
Buses %	0.0	7.7	0.0	7.7	36.4	0.0	0.0	36.4	0.0	0.0	0.0	0.0	20.0
Single-Unit Trucks	0	14	0	14	12	0	0	12	2	0	0	2	28
Single-Unit %	0.0	53.8	0.0	53.8	54.5	0.0	0.0	54.5	100.0	0.0	0.0	100.0	56.0
Articulated Trucks	0	10	0	10	2	0	0	2	0	0	0	0	12
Articulated %	0.0	38.5	0.0	38.5	9.1	0.0	0.0	9.1	0.0	0.0	0.0	0.0	24.0
Buses	0	2	0	2	8	0	0	8	0	0	0	0	10
Single-Unit Trucks	0	14	0	14	12	0	0	12	2	0	0	2	28
Articulated Trucks	0	10	0	10	2	0	0	2	0	0	0	0	12
Total Entering Leg	0	26	0	26	22	0	0	22	2	0	0	2	50
Buses				8				2				0	10
Single-Unit Trucks				12				16				0	28
Articulated Trucks				2				10				0	12
Total Exiting Leg				22				28				0	50

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:30 AM	0	4	0	4	1	0	0	1	0	0	0	0	5
7:45 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total	0	6	0	6	5	0	0	5	0	0	0	0	11
8:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
8:15 AM	0	1	0	1	4	0	0	4	0	0	0	0	5
8:30 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
8:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	2	0	2	8	0	0	8	0	0	0	0	10
Grand Total	0	8	0	8	13	0	0	13	0	0	0	0	21
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	38.1	0.0	38.1	61.9	0.0	0.0	61.9	0.0	0.0	0.0	0.0	
Exiting Leg Total				13				8				0	21

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:30 AM	0	4	0	4	1	0	0	1	0	0	0	0	5
7:45 AM	0	0	0	0	2	0	0	2	0	0	0	0	2
8:00 AM	0	0	0	0	1	0	0	1	0	0	0	0	1
8:15 AM	0	1	0	1	4	0	0	4	0	0	0	0	5
Total Volume	0	5	0	5	8	0	0	8	0	0	0	0	13
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.313	0.000	0.313	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.650
Entering Leg	0	5	0	5	8	0	0	8	0	0	0	0	13
Exiting Leg				8				5				0	13
Total				13				13				0	26

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	3	0	3	0	1	0	1	0	0	0	0	4
7:15 AM	2	8	0	10	0	0	0	0	0	0	0	0	10
7:30 AM	1	0	0	1	0	1	0	1	0	0	0	0	2
7:45 AM	0	3	0	3	1	0	0	1	0	0	0	0	4
Total	3	14	0	17	1	2	0	3	0	0	0	0	20
8:00 AM	0	2	0	2	2	0	0	2	1	0	0	1	5
8:15 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
8:30 AM	0	6	0	6	3	0	0	3	0	0	0	0	9
8:45 AM	0	4	0	4	4	0	0	4	1	0	0	1	9
Total	0	14	0	14	12	0	0	12	2	0	0	2	28
Grand Total	3	28	0	31	13	2	0	15	2	0	0	2	48
Approach %	9.7	90.3	0.0		86.7	13.3	0.0		100.0	0.0	0.0		
Total %	6.3	58.3	0.0	64.6	27.1	4.2	0.0	31.3	4.2	0.0	0.0	4.2	
Exiting Leg Total				13				30				5	48

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	2	0	2	2	0	0	2	1	0	0	1	5
8:15 AM	0	2	0	2	3	0	0	3	0	0	0	0	5
8:30 AM	0	6	0	6	3	0	0	3	0	0	0	0	9
8:45 AM	0	4	0	4	4	0	0	4	1	0	0	1	9
Total Volume	0	14	0	14	12	0	0	12	2	0	0	2	28
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.583	0.750	0.000	0.000	0.750	0.500	0.000	0.000	0.500	0.778
Entering Leg	0	14	0	14	12	0	0	12	2	0	0	2	28
Exiting Leg				12				16				0	28
Total				26				28				2	56

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
7:15 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	14	0	14	0	0	0	0	0	0	0	0	14
8:00 AM	0	3	0	3	2	0	0	2	0	0	0	0	5
8:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
8:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	10	0	10	2	0	0	2	0	0	0	0	12
Grand Total	0	24	0	24	2	0	0	2	0	0	0	0	26
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	92.3	0.0	92.3	7.7	0.0	0.0	7.7	0.0	0.0	0.0	0.0	
Exiting Leg Total				2				24				0	26

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	6	0	6	0	0	0	0	0	0	0	0	6
7:15 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total Volume	0	14	0	14	0	0	0	0	0	0	0	0	14
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.583	0.000	0.583	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583
Entering Leg	0	14	0	14	0	0	0	0	0	0	0	0	14
Exiting Leg				0				14				0	14
Total				14				14				0	28

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2
7:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
7:30 AM	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	2	0	2	4
Total	0	3	0	0	0	3	7	0	0	0	0	7	0	0	0	2	0	2	12
8:00 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
8:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
8:30 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	3
8:45 AM	0	6	0	0	0	6	0	0	0	0	0	0	2	0	0	0	8	10	16
Total	0	9	0	0	0	9	2	0	0	0	0	2	2	0	0	0	10	12	23
Grand Total	0	12	0	0	0	12	9	0	0	0	0	9	2	0	0	2	10	14	35
Approach %	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		14.3	0.0	0.0	14.3	71.4		
Total %	0.0	34.3	0.0	0.0	0.0	34.3	25.7	0.0	0.0	0.0	0.0	25.7	5.7	0.0	0.0	5.7	28.6	40.0	
Exiting Leg Total						9						14						12	35

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
8:15 AM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	2
8:30 AM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	1	1	3
8:45 AM	0	6	0	0	0	6	0	0	0	0	0	0	2	0	0	0	8	10	16
Total Volume	0	9	0	0	0	9	2	0	0	0	0	2	2	0	0	0	10	12	23
% Approach Total	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		16.7	0.0	0.0	0.0	83.3		
PHF	0.000	0.375	0.000	0.000	0.000	0.375	0.500	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.313	0.300	0.359
Entering Leg	0	9	0	0	0	9	2	0	0	0	0	2	2	0	0	0	10	12	23
Exiting Leg						2						11						10	23
Total						11						13						22	46

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1	16	16
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	6	26	26
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12	12
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	12	12
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	36	47	47
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	42	73	73
Approach %	0	0	0	0	0		0	0	0	0	0		0	0	0	42.466	57.534		
Total %	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	42.466	57.534	100	
Exiting Leg Total						0						0						73	73

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	12	12
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	10	12	12
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	11
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12	12
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	36	47	47
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	23.4	76.6		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.306	0.750	0.979	0.979
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	36	47	47
Exiting Leg						0						0						47	47
Total						0						0						94	94

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	2	65	0	67	104	6	0	110	17	8	0	25	202
4:15 PM	5	64	0	69	81	4	0	85	8	5	0	13	167
4:30 PM	4	78	0	82	85	8	1	94	12	1	0	13	189
4:45 PM	5	60	0	65	89	9	1	99	13	4	0	17	181
Total	16	267	0	283	359	27	2	388	50	18	0	68	739
5:00 PM	5	66	0	71	76	8	1	85	9	6	0	15	171
5:15 PM	10	78	0	88	104	9	0	113	14	5	0	19	220
5:30 PM	8	76	0	84	81	10	0	91	8	7	0	15	190
5:45 PM	9	67	0	76	111	16	1	128	12	4	0	16	220
Total	32	287	0	319	372	43	2	417	43	22	0	65	801
Grand Total	48	554	0	602	731	70	4	805	93	40	0	133	1540
Approach %	8.0	92.0	0.0		90.8	8.7	0.5		69.9	30.1	0.0		
Total %	3.1	36.0	0.0	39.1	47.5	4.5	0.3	52.3	6.0	2.6	0.0	8.6	
Exiting Leg Total				771				651				118	1540
Cars	47	539	0	586	702	68	4	774	93	38	0	131	1491
% Cars	97.9	97.3	0.0	97.3	96.0	97.1	100.0	96.1	100.0	95.0	0.0	98.5	96.8
Exiting Leg Total				740				636				115	1491
Heavy Vehicles	1	15	0	16	29	2	0	31	0	2	0	2	49
% Heavy Vehicles	2.1	2.7	0.0	2.7	4.0	2.9	0.0	3.9	0.0	5.0	0.0	1.5	3.2
Exiting Leg Total				31				15				3	49

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	5	66	0	71	76	8	1	85	9	6	0	15	171
5:15 PM	10	78	0	88	104	9	0	113	14	5	0	19	220
5:30 PM	8	76	0	84	81	10	0	91	8	7	0	15	190
5:45 PM	9	67	0	76	111	16	1	128	12	4	0	16	220
Total Volume	32	287	0	319	372	43	2	417	43	22	0	65	801
% Approach Total	10.0	90.0	0.0		89.2	10.3	0.5		66.2	33.8	0.0		
PHF	0.800	0.920	0.000	0.906	0.838	0.672	0.500	0.814	0.768	0.786	0.000	0.855	0.910
Cars	31	282	0	313	360	42	2	404	43	20	0	63	780
Cars %	96.9	98.3	0.0	98.1	96.8	97.7	100.0	96.9	100.0	90.9	0.0	96.9	97.4
Heavy Vehicles	1	5	0	6	12	1	0	13	0	2	0	2	21
Heavy Vehicles %	3.1	1.7	0.0	1.9	3.2	2.3	0.0	3.1	0.0	9.1	0.0	3.1	2.6
Cars Enter Leg	31	282	0	313	360	42	2	404	43	20	0	63	780
Heavy Enter Leg	1	5	0	6	12	1	0	13	0	2	0	2	21
Total Entering Leg	32	287	0	319	372	43	2	417	43	22	0	65	801
Cars Exiting Leg				380				327				73	780
Heavy Exiting Leg				14				5				2	21
Total Exiting Leg				394				332				75	801

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	2	63	0	65	101	6	0	107	17	8	0	25	197
4:15 PM	5	64	0	69	77	4	0	81	8	5	0	13	163
4:30 PM	4	73	0	77	81	8	1	90	12	1	0	13	180
4:45 PM	5	57	0	62	83	8	1	92	13	4	0	17	171
Total	16	257	0	273	342	26	2	370	50	18	0	68	711
5:00 PM	5	65	0	70	71	8	1	80	9	6	0	15	165
5:15 PM	10	77	0	87	99	9	0	108	14	5	0	19	214
5:30 PM	7	74	0	81	80	10	0	90	8	6	0	14	185
5:45 PM	9	66	0	75	110	15	1	126	12	3	0	15	216
Total	31	282	0	313	360	42	2	404	43	20	0	63	780
Grand Total	47	539	0	586	702	68	4	774	93	38	0	131	1491
Approach %	8.0	92.0	0.0		90.7	8.8	0.5		71.0	29.0	0.0		
Total %	3.2	36.2	0.0	39.3	47.1	4.6	0.3	51.9	6.2	2.5	0.0	8.8	
Exiting Leg Total				740				636				115	1491

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	5	65	0	70	71	8	1	80	9	6	0	15	165
5:15 PM	10	77	0	87	99	9	0	108	14	5	0	19	214
5:30 PM	7	74	0	81	80	10	0	90	8	6	0	14	185
5:45 PM	9	66	0	75	110	15	1	126	12	3	0	15	216
Total Volume	31	282	0	313	360	42	2	404	43	20	0	63	780
% Approach Total	9.9	90.1	0.0		89.1	10.4	0.5		68.3	31.7	0.0		
PHF	0.775	0.916	0.000	0.899	0.818	0.700	0.500	0.802	0.768	0.833	0.000	0.829	0.903
Entering Leg	31	282	0	313	360	42	2	404	43	20	0	63	780
Exiting Leg				380				327				73	780
Total				693				731				136	1560

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	2	0	2	3	0	0	3	0	0	0	0	5
4:15 PM	0	0	0	0	4	0	0	4	0	0	0	0	4
4:30 PM	0	5	0	5	4	0	0	4	0	0	0	0	9
4:45 PM	0	3	0	3	6	1	0	7	0	0	0	0	10
Total	0	10	0	10	17	1	0	18	0	0	0	0	28
5:00 PM	0	1	0	1	5	0	0	5	0	0	0	0	6
5:15 PM	0	1	0	1	5	0	0	5	0	0	0	0	6
5:30 PM	1	2	0	3	1	0	0	1	0	1	0	1	5
5:45 PM	0	1	0	1	1	1	0	2	0	1	0	1	4
Total	1	5	0	6	12	1	0	13	0	2	0	2	21
Grand Total	1	15	0	16	29	2	0	31	0	2	0	2	49
Approach %	6.3	93.8	0.0		93.5	6.5	0.0		0.0	100.0	0.0		
Total %	2.0	30.6	0.0	32.7	59.2	4.1	0.0	63.3	0.0	4.1	0.0	4.1	
Exiting Leg Total				31				15				3	49
Buses	0	8	0	8	7	0	0	7	0	0	0	0	15
% Buses	0.0	53.3	0.0	50.0	24.1	0.0	0.0	22.6	0.0	0.0	0.0	0.0	30.6
Exiting Leg Total				7				8				0	15
Single-Unit Trucks	1	7	0	8	11	2	0	13	0	2	0	2	23
% Single-Unit	100.0	46.7	0.0	50.0	37.9	100.0	0.0	41.9	0.0	100.0	0.0	100.0	46.9
Exiting Leg Total				13				7				3	23
Articulated Trucks	0	0	0	0	11	0	0	11	0	0	0	0	11
% Articulated	0.0	0.0	0.0	0.0	37.9	0.0	0.0	35.5	0.0	0.0	0.0	0.0	22.4
Exiting Leg Total				11				0				0	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	5	0	5	4	0	0	4	0	0	0	0	9
4:45 PM	0	3	0	3	6	1	0	7	0	0	0	0	10
5:00 PM	0	1	0	1	5	0	0	5	0	0	0	0	6
5:15 PM	0	1	0	1	5	0	0	5	0	0	0	0	6
Total Volume	0	10	0	10	20	1	0	21	0	0	0	0	31
% Approach Total	0.0	100.0	0.0		95.2	4.8	0.0		0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.500	0.833	0.250	0.000	0.750	0.000	0.000	0.000	0.000	0.775
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Buses %	0.0	50.0	0.0	50.0	20.0	0.0	0.0	19.0	0.0	0.0	0.0	0.0	29.0
Single-Unit Trucks	0	5	0	5	9	1	0	10	0	0	0	0	15
Single-Unit %	0.0	50.0	0.0	50.0	45.0	100.0	0.0	47.6	0.0	0.0	0.0	0.0	48.4
Articulated Trucks	0	0	0	0	7	0	0	7	0	0	0	0	7
Articulated %	0.0	0.0	0.0	0.0	35.0	0.0	0.0	33.3	0.0	0.0	0.0	0.0	22.6
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Single-Unit Trucks	0	5	0	5	9	1	0	10	0	0	0	0	15
Articulated Trucks	0	0	0	0	7	0	0	7	0	0	0	0	7
Total Entering Leg	0	10	0	10	20	1	0	21	0	0	0	0	31
Buses				4				5				0	9
Single-Unit Trucks				9				5				1	15
Articulated Trucks				7				0				0	7
Total Exiting Leg				20				10				1	31

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	5	0	5	3	0	0	3	0	0	0	0	8
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	3	0	3	4	0	0	4	0	0	0	0	7
Grand Total	0	8	0	8	7	0	0	7	0	0	0	0	15
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	53.3	0.0	53.3	46.7	0.0	0.0	46.7	0.0	0.0	0.0	0.0	
Exiting Leg Total				7				8				0	15

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	4	0	4	5	0	0	5	0	0	0	0	9
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.333	0.000	0.333	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.563
Entering Leg	0	4	0	4	5	0	0	5	0	0	0	0	9
Exiting Leg				5				4				0	9
Total				9				9				0	18

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
4:45 PM	0	2	0	2	2	1	0	3	0	0	0	0	5
Total	0	5	0	5	6	1	0	7	0	0	0	0	12
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
5:15 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
5:30 PM	1	1	0	2	0	0	0	0	0	1	0	1	3
5:45 PM	0	0	0	0	0	1	0	1	0	1	0	1	2
Total	1	2	0	3	5	1	0	6	0	2	0	2	11
Grand Total	1	7	0	8	11	2	0	13	0	2	0	2	23
Approach %	12.5	87.5	0.0		84.6	15.4	0.0		0.0	100.0	0.0		
Total %	4.3	30.4	0.0	34.8	47.8	8.7	0.0	56.5	0.0	8.7	0.0	8.7	
Exiting Leg Total				13				7				3	23

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	2	0	2	2	0	0	2	0	0	0	0	4
4:45 PM	0	2	0	2	2	1	0	3	0	0	0	0	5
5:00 PM	0	1	0	1	2	0	0	2	0	0	0	0	3
5:15 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
Total Volume	0	5	0	5	9	1	0	10	0	0	0	0	15
% Approach Total	0.0	100.0	0.0		90.0	10.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.625	0.750	0.250	0.000	0.833	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	5	0	5	9	1	0	10	0	0	0	0	15
Exiting Leg				9				5				1	15
Total				14				15				1	30

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
4:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
Total	0	0	0	0	8	0	0	8	0	0	0	0	8
5:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	3	0	0	3	0	0	0	0	3
Grand Total	0	0	0	0	11	0	0	11	0	0	0	0	11
Approach %	0.0	0.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				11				0				0	11

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North				Walnut Street from South				Site Driveway from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
4:15 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
Total Volume	0	0	0	0	8	0	0	8	0	0	0	0	8
% Approach Total	0.0	0.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.667	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.667
Entering Leg	0	0	0	0	8	0	0	8	0	0	0	0	8
Exiting Leg				8				0				0	8
Total				8				8				0	16

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
4:15 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	3	0	0	0	3	1	0	0	0	0	1	0	0	0	0	1	1	5
4:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	7	0	0	0	7	3	0	0	0	0	3	0	0	0	0	1	1	11
5:00 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	5	0	0	0	5	1	0	0	0	0	1	0	0	0	0	0	0	6
Grand Total	0	12	0	0	0	12	4	0	0	0	0	4	0	0	0	0	1	1	17
Approach %	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		
Total %	0.0	70.6	0.0	0.0	0.0	70.6	23.5	0.0	0.0	0.0	0.0	23.5	0.0	0.0	0.0	0.0	5.9	5.9	
Exiting Leg Total						4						12						1	17

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
4:15 PM	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	3	0	0	0	3	1	0	0	0	0	1	0	0	0	0	1	1	5
4:45 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	7	0	0	0	7	3	0	0	0	0	3	0	0	0	0	1	1	11
% Approach Total	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		
PHF	0.000	0.583	0.000	0.000	0.000	0.583	0.375	0.000	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.250	0.250	0.550
Entering Leg	0	7	0	0	0	7	3	0	0	0	0	3	0	0	0	0	1	1	11
Exiting Leg						3						7						1	11
Total						10						10						2	22

PDI File #: **228976 E**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Site Driveway**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	28	5	33	36
4:15 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	6	6	12	15
4:30 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	7	4	11	14
4:45 PM	0	0	0	0	0	0	0	0	0	3	6	9	0	0	0	16	6	22	31
Total	0	0	0	0	0	0	0	0	0	7	11	18	0	0	0	57	21	78	96
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	5	14	14
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	4	1	5	6
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	5	5
Total	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	19	9	28	29
Grand Total	0	0	0	0	0	0	0	0	0	7	12	19	0	0	0	76	30	106	125
Approach %	0	0	0	0	0		0	0	0	36.842	63.158		0	0	0	71.698	28.302		
Total %	0	0	0	0	0	0	0	0	0	5.6	9.6	15.2	0	0	0	60.8	24	84.8	
Exiting Leg Total						0						19						106	125

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Site Driveway from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	3	3	0	0	0	28	5	33	36
4:15 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	6	6	12	15
4:30 PM	0	0	0	0	0	0	0	0	0	2	1	3	0	0	0	7	4	11	14
4:45 PM	0	0	0	0	0	0	0	0	0	3	6	9	0	0	0	16	6	22	31
Total Volume	0	0	0	0	0	0	0	0	0	7	11	18	0	0	0	57	21	78	96
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	38.9	61.1		0.0	0.0	0.0	73.1	26.9		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.583	0.458	0.500	0.000	0.000	0.000	0.509	0.875	0.591	0.667
Entering Leg	0	0	0	0	0	0	0	0	0	7	11	18	0	0	0	57	21	78	96
Exiting Leg						0						18						78	96
Total						0						36						156	192

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	71	0	71	40	0	0	40	0	0	0	0	111
7:15 AM	0	87	0	87	46	0	0	46	2	0	0	2	135
7:30 AM	0	61	0	61	90	0	0	90	0	2	0	2	153
7:45 AM	0	80	0	80	72	0	0	72	2	1	0	3	155
Total	0	299	0	299	248	0	0	248	4	3	0	7	554
8:00 AM	0	85	0	85	84	0	0	84	2	0	0	2	171
8:15 AM	0	114	0	114	87	0	0	87	1	0	0	1	202
8:30 AM	0	88	0	88	97	0	1	98	4	1	0	5	191
8:45 AM	0	96	0	96	110	0	0	110	7	1	0	8	214
Total	0	383	0	383	378	0	1	379	14	2	0	16	778
Grand Total	0	682	0	682	626	0	1	627	18	5	0	23	1332
Approach %	0.0	100.0	0.0		99.8	0.0	0.2		78.3	21.7	0.0		
Total %	0.0	51.2	0.0	51.2	47.0	0.0	0.1	47.1	1.4	0.4	0.0	1.7	
Exiting Leg Total				631				701				0	1332
Cars	0	628	0	628	598	0	1	599	17	4	0	21	1248
% Cars	0.0	92.1	0.0	92.1	95.5	0.0	100.0	95.5	94.4	80.0	0.0	91.3	93.7
Exiting Leg Total				602				646				0	1248
Heavy Vehicles	0	54	0	54	28	0	0	28	1	1	0	2	84
% Heavy Vehicles	0.0	7.9	0.0	7.9	4.5	0.0	0.0	4.5	5.6	20.0	0.0	8.7	6.3
Exiting Leg Total				29				55				0	84

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	85	0	85	84	0	0	84	2	0	0	2	171
8:15 AM	0	114	0	114	87	0	0	87	1	0	0	1	202
8:30 AM	0	88	0	88	97	0	1	98	4	1	0	5	191
8:45 AM	0	96	0	96	110	0	0	110	7	1	0	8	214
Total Volume	0	383	0	383	378	0	1	379	14	2	0	16	778
% Approach Total	0.0	100.0	0.0		99.7	0.0	0.3		87.5	12.5	0.0		
PHF	0.000	0.840	0.000	0.840	0.859	0.000	0.250	0.861	0.500	0.500	0.000	0.500	0.909
Cars	0	361	0	361	356	0	1	357	13	2	0	15	733
Cars %	0.0	94.3	0.0	94.3	94.2	0.0	100.0	94.2	92.9	100.0	0.0	93.8	94.2
Heavy Vehicles	0	22	0	22	22	0	0	22	1	0	0	1	45
Heavy Vehicles %	0.0	5.7	0.0	5.7	5.8	0.0	0.0	5.8	7.1	0.0	0.0	6.3	5.8
Cars Enter Leg	0	361	0	361	356	0	1	357	13	2	0	15	733
Heavy Enter Leg	0	22	0	22	22	0	0	22	1	0	0	1	45
Total Entering Leg	0	383	0	383	378	0	1	379	14	2	0	16	778
Cars Exiting Leg				358				375				0	733
Heavy Exiting Leg				22				23				0	45
Total Exiting Leg				380				398				0	778

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	61	0	61	39	0	0	39	0	0	0	0	100
7:15 AM	0	75	0	75	45	0	0	45	2	0	0	2	122
7:30 AM	0	54	0	54	90	0	0	90	0	2	0	2	146
7:45 AM	0	77	0	77	68	0	0	68	2	0	0	2	147
Total	0	267	0	267	242	0	0	242	4	2	0	6	515
8:00 AM	0	81	0	81	80	0	0	80	2	0	0	2	163
8:15 AM	0	108	0	108	80	0	0	80	1	0	0	1	189
8:30 AM	0	80	0	80	91	0	1	92	4	1	0	5	177
8:45 AM	0	92	0	92	105	0	0	105	6	1	0	7	204
Total	0	361	0	361	356	0	1	357	13	2	0	15	733
Grand Total	0	628	0	628	598	0	1	599	17	4	0	21	1248
Approach %	0.0	100.0	0.0		99.8	0.0	0.2		81.0	19.0	0.0		
Total %	0.0	50.3	0.0	50.3	47.9	0.0	0.1	48.0	1.4	0.3	0.0	1.7	
Exiting Leg Total				602				646				0	1248

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	81	0	81	80	0	0	80	2	0	0	2	163
8:15 AM	0	108	0	108	80	0	0	80	1	0	0	1	189
8:30 AM	0	80	0	80	91	0	1	92	4	1	0	5	177
8:45 AM	0	92	0	92	105	0	0	105	6	1	0	7	204
Total Volume	0	361	0	361	356	0	1	357	13	2	0	15	733
% Approach Total	0.0	100.0	0.0		99.7	0.0	0.3		86.7	13.3	0.0		
PHF	0.000	0.836	0.000	0.836	0.848	0.000	0.250	0.850	0.542	0.500	0.000	0.536	0.898
Entering Leg	0	361	0	361	356	0	1	357	13	2	0	15	733
Exiting Leg				358				375				0	733
Total				719				732				15	1466

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	10	0	10	1	0	0	1	0	0	0	0	11
7:15 AM	0	12	0	12	1	0	0	1	0	0	0	0	13
7:30 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
7:45 AM	0	3	0	3	4	0	0	4	0	1	0	1	8
Total	0	32	0	32	6	0	0	6	0	1	0	1	39
8:00 AM	0	4	0	4	4	0	0	4	0	0	0	0	8
8:15 AM	0	6	0	6	7	0	0	7	0	0	0	0	13
8:30 AM	0	8	0	8	6	0	0	6	0	0	0	0	14
8:45 AM	0	4	0	4	5	0	0	5	1	0	0	1	10
Total	0	22	0	22	22	0	0	22	1	0	0	1	45
Grand Total	0	54	0	54	28	0	0	28	1	1	0	2	84
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		50.0	50.0	0.0		
Total %	0.0	64.3	0.0	64.3	33.3	0.0	0.0	33.3	1.2	1.2	0.0	2.4	
Exiting Leg Total				29				55				0	84
Buses	0	8	0	8	11	0	0	11	0	1	0	1	20
% Buses	0.0	14.8	0.0	14.8	39.3	0.0	0.0	39.3	0.0	100.0	0.0	50.0	23.8
Exiting Leg Total				12				8				0	20
Single-Unit Trucks	0	28	0	28	15	0	0	15	1	0	0	1	44
% Single-Unit	0.0	51.9	0.0	51.9	53.6	0.0	0.0	53.6	100.0	0.0	0.0	50.0	52.4
Exiting Leg Total				15				29				0	44
Articulated Trucks	0	18	0	18	2	0	0	2	0	0	0	0	20
% Articulated	0.0	33.3	0.0	33.3	7.1	0.0	0.0	7.1	0.0	0.0	0.0	0.0	23.8
Exiting Leg Total				2				18				0	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	4	0	4	4	0	0	4	0	0	0	0	8
8:15 AM	0	6	0	6	7	0	0	7	0	0	0	0	13
8:30 AM	0	8	0	8	6	0	0	6	0	0	0	0	14
8:45 AM	0	4	0	4	5	0	0	5	1	0	0	1	10
Total Volume	0	22	0	22	22	0	0	22	1	0	0	1	45
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.688	0.000	0.688	0.786	0.000	0.000	0.786	0.250	0.000	0.000	0.250	0.804
Buses	0	3	0	3	6	0	0	6	0	0	0	0	9
Buses %	0.0	13.6	0.0	13.6	27.3	0.0	0.0	27.3	0.0	0.0	0.0	0.0	20.0
Single-Unit Trucks	0	13	0	13	14	0	0	14	1	0	0	1	28
Single-Unit %	0.0	59.1	0.0	59.1	63.6	0.0	0.0	63.6	100.0	0.0	0.0	100.0	62.2
Articulated Trucks	0	6	0	6	2	0	0	2	0	0	0	0	8
Articulated %	0.0	27.3	0.0	27.3	9.1	0.0	0.0	9.1	0.0	0.0	0.0	0.0	17.8
Buses	0	3	0	3	6	0	0	6	0	0	0	0	9
Single-Unit Trucks	0	13	0	13	14	0	0	14	1	0	0	1	28
Articulated Trucks	0	6	0	6	2	0	0	2	0	0	0	0	8
Total Entering Leg	0	22	0	22	22	0	0	22	1	0	0	1	45
Buses				6				3				0	9
Single-Unit Trucks				14				14				0	28
Articulated Trucks				2				6				0	8
Total Exiting Leg				22				23				0	45

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
7:45 AM	0	0	0	0	3	0	0	3	0	1	0	1	4
Total	0	5	0	5	5	0	0	5	0	1	0	1	11
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	1	3	0	0	3	0	0	0	0	4
8:30 AM	0	1	0	1	2	0	0	2	0	0	0	0	3
8:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	3	0	3	6	0	0	6	0	0	0	0	9
Grand Total	0	8	0	8	11	0	0	11	0	1	0	1	20
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	0.0	40.0	0.0	40.0	55.0	0.0	0.0	55.0	0.0	5.0	0.0	5.0	
Exiting Leg Total				12				8				0	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:15 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
7:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
7:45 AM	0	0	0	0	3	0	0	3	0	1	0	1	4
Total Volume	0	5	0	5	5	0	0	5	0	1	0	1	11
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.000	0.417	0.000	0.417	0.417	0.000	0.000	0.417	0.000	0.250	0.000	0.250	0.688
Entering Leg	0	5	0	5	5	0	0	5	0	1	0	1	11
Exiting Leg				6				5				0	11
Total				11				10				1	22

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:15 AM	0	7	0	7	0	0	0	0	0	0	0	0	7
7:30 AM	0	3	0	3	0	0	0	0	0	0	0	0	3
7:45 AM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	15	0	15	1	0	0	1	0	0	0	0	16
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	3	0	3	4	0	0	4	0	0	0	0	7
8:30 AM	0	6	0	6	4	0	0	4	0	0	0	0	10
8:45 AM	0	2	0	2	4	0	0	4	1	0	0	1	7
Total	0	13	0	13	14	0	0	14	1	0	0	1	28
Grand Total	0	28	0	28	15	0	0	15	1	0	0	1	44
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
Total %	0.0	63.6	0.0	63.6	34.1	0.0	0.0	34.1	2.3	0.0	0.0	2.3	
Exiting Leg Total				15				29				0	44

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	3	0	3	4	0	0	4	0	0	0	0	7
8:30 AM	0	6	0	6	4	0	0	4	0	0	0	0	10
8:45 AM	0	2	0	2	4	0	0	4	1	0	0	1	7
Total Volume	0	13	0	13	14	0	0	14	1	0	0	1	28
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.542	0.000	0.542	0.875	0.000	0.000	0.875	0.250	0.000	0.000	0.250	0.700
Entering Leg	0	13	0	13	14	0	0	14	1	0	0	1	28
Exiting Leg				14				14				0	28
Total				27				28				1	56

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total	0	12	0	12	0	0	0	0	0	0	0	0	12
8:00 AM	0	2	0	2	2	0	0	2	0	0	0	0	4
8:15 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
8:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
8:45 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
Total	0	6	0	6	2	0	0	2	0	0	0	0	8
Grand Total	0	18	0	18	2	0	0	2	0	0	0	0	20
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	90.0	0.0	90.0	10.0	0.0	0.0	10.0	0.0	0.0	0.0	0.0	
Exiting Leg Total				2				18				0	20

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
7:00 AM	0	5	0	5	0	0	0	0	0	0	0	0	5
7:15 AM	0	4	0	4	0	0	0	0	0	0	0	0	4
7:30 AM	0	1	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	0	2	0	2	0	0	0	0	0	0	0	0	2
Total Volume	0	12	0	12	0	0	0	0	0	0	0	0	12
% Approach Total	0.0	100.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.600	0.000	0.600	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.600
Entering Leg	0	12	0	12	0	0	0	0	0	0	0	0	12
Exiting Leg				0				12				0	12
Total				12				12				0	24

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	2
7:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
7:30 AM	0	0	0	0	0	0	3	0	0	0	0	3	0	0	0	0	0	0	3
7:45 AM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	2	0	2	5
Total	0	3	0	0	0	3	8	0	0	0	0	8	0	0	0	2	0	2	13
8:00 AM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	0	3	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	5
8:45 AM	0	8	0	0	0	8	2	0	0	0	0	2	2	0	0	0	2	4	14
Total	0	14	0	0	0	14	7	0	0	0	0	7	2	0	0	0	2	4	25
Grand Total	0	17	0	0	0	17	15	0	0	0	0	15	2	0	0	2	2	6	38
Approach %	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		33.3	0.0	0.0	33.3	33.3		
Total %	0.0	44.7	0.0	0.0	0.0	44.7	39.5	0.0	0.0	0.0	0.0	39.5	5.3	0.0	0.0	5.3	5.3	15.8	
Exiting Leg Total						15						19						4	38

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
8:15 AM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
8:30 AM	0	3	0	0	0	3	2	0	0	0	0	2	0	0	0	0	0	0	5
8:45 AM	0	8	0	0	0	8	2	0	0	0	0	2	2	0	0	0	2	4	14
Total Volume	0	14	0	0	0	14	7	0	0	0	0	7	2	0	0	0	2	4	25
% Approach Total	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		50.0	0.0	0.0	0.0	50.0		
PHF	0.000	0.438	0.000	0.000	0.000	0.438	0.875	0.000	0.000	0.000	0.000	0.875	0.250	0.000	0.000	0.000	0.250	0.250	0.446
Entering Leg	0	14	0	0	0	14	7	0	0	0	0	7	2	0	0	0	2	4	25
Exiting Leg						7						16						2	25
Total						21						23						6	50

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
7:15 AM	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	3	0	3	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	12	1	13	14
7:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	2	2	5
Total	0	0	0	1	0	1	0	0	0	3	2	5	0	0	0	15	4	19	25
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	5
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	4	4	5
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	6	6
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7
Total	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	20	22	23
Grand Total	0	0	0	1	0	1	0	0	0	4	2	6	0	0	0	17	24	41	48
Approach %	0	0	0	100	0		0	0	0	66.667	33.333		0	0	0	41.463	58.537		
Total %	0	0	0	2.0833	0	2.0833	0	0	0	8.3333	4.1667	12.5	0	0	0	35.417	50	85.417	
Exiting Leg Total						1						6						41	48

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:15 AM	0	0	0	1	0	1	0	0	0	0	1	1	0	0	0	3	0	3	5
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	12	1	13	14
7:45 AM	0	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0	2	2	5
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	5	5
Total Volume	0	0	0	1	0	1	0	0	0	3	2	5	0	0	0	16	7	23	29
% Approach Total	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	60.0	40.0		0.0	0.0	0.0	69.6	30.4		
PHF	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.250	0.500	0.417	0.000	0.000	0.000	0.333	0.438	0.442	0.518
Entering Leg	0	0	0	1	0	1	0	0	0	3	2	5	0	0	0	16	7	23	29
Exiting Leg						1						5						23	29
Total						2						10						46	58

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	67	0	67	107	1	0	108	0	2	0	2	177
4:15 PM	0	71	0	71	84	0	0	84	2	3	0	5	160
4:30 PM	0	79	0	79	85	0	1	86	3	0	0	3	168
4:45 PM	0	71	0	71	93	0	0	93	0	0	0	0	164
Total	0	288	0	288	369	1	1	371	5	5	0	10	669
5:00 PM	0	76	0	76	71	0	0	71	4	1	0	5	152
5:15 PM	0	88	0	88	106	0	0	106	1	0	0	1	195
5:30 PM	0	76	0	76	81	0	0	81	5	6	0	11	168
5:45 PM	0	74	0	74	115	0	0	115	2	2	0	4	193
Total	0	314	0	314	373	0	0	373	12	9	0	21	708
Grand Total	0	602	0	602	742	1	1	744	17	14	0	31	1377
Approach %	0.0	100.0	0.0		99.7	0.1	0.1		54.8	45.2	0.0		
Total %	0.0	43.7	0.0	43.7	53.9	0.1	0.1	54.0	1.2	1.0	0.0	2.3	
Exiting Leg Total				756				620				1	1377
Cars	0	584	0	584	705	1	1	707	16	11	0	27	1318
% Cars	0.0	97.0	0.0	97.0	95.0	100.0	100.0	95.0	94.1	78.6	0.0	87.1	95.7
Exiting Leg Total				716				601				1	1318
Heavy Vehicles	0	18	0	18	37	0	0	37	1	3	0	4	59
% Heavy Vehicles	0.0	3.0	0.0	3.0	5.0	0.0	0.0	5.0	5.9	21.4	0.0	12.9	4.3
Exiting Leg Total				40				19				0	59

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	0	76	0	76	71	0	0	71	4	1	0	5	152
5:15 PM	0	88	0	88	106	0	0	106	1	0	0	1	195
5:30 PM	0	76	0	76	81	0	0	81	5	6	0	11	168
5:45 PM	0	74	0	74	115	0	0	115	2	2	0	4	193
Total Volume	0	314	0	314	373	0	0	373	12	9	0	21	708
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		57.1	42.9	0.0		
PHF	0.000	0.892	0.000	0.892	0.811	0.000	0.000	0.811	0.600	0.375	0.000	0.477	0.908
Cars	0	305	0	305	356	0	0	356	12	8	0	20	681
Cars %	0.0	97.1	0.0	97.1	95.4	0.0	0.0	95.4	100.0	88.9	0.0	95.2	96.2
Heavy Vehicles	0	9	0	9	17	0	0	17	0	1	0	1	27
Heavy Vehicles %	0.0	2.9	0.0	2.9	4.6	0.0	0.0	4.6	0.0	11.1	0.0	4.8	3.8
Cars Enter Leg	0	305	0	305	356	0	0	356	12	8	0	20	681
Heavy Enter Leg	0	9	0	9	17	0	0	17	0	1	0	1	27
Total Entering Leg	0	314	0	314	373	0	0	373	12	9	0	21	708
Cars Exiting Leg				364				317				0	681
Heavy Exiting Leg				18				9				0	27
Total Exiting Leg				382				326				0	708

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	65	0	65	103	1	0	104	0	2	0	2	171
4:15 PM	0	70	0	70	79	0	0	79	2	1	0	3	152
4:30 PM	0	75	0	75	81	0	1	82	2	0	0	2	159
4:45 PM	0	69	0	69	86	0	0	86	0	0	0	0	155
Total	0	279	0	279	349	1	1	351	4	3	0	7	637
5:00 PM	0	75	0	75	65	0	0	65	4	1	0	5	145
5:15 PM	0	85	0	85	99	0	0	99	1	0	0	1	185
5:30 PM	0	73	0	73	80	0	0	80	5	6	0	11	164
5:45 PM	0	72	0	72	112	0	0	112	2	1	0	3	187
Total	0	305	0	305	356	0	0	356	12	8	0	20	681
Grand Total	0	584	0	584	705	1	1	707	16	11	0	27	1318
Approach %	0.0	100.0	0.0		99.7	0.1	0.1		59.3	40.7	0.0		
Total %	0.0	44.3	0.0	44.3	53.5	0.1	0.1	53.6	1.2	0.8	0.0	2.0	
Exiting Leg Total				716				601				1	1318

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
5:00 PM	0	75	0	75	65	0	0	65	4	1	0	5	145
5:15 PM	0	85	0	85	99	0	0	99	1	0	0	1	185
5:30 PM	0	73	0	73	80	0	0	80	5	6	0	11	164
5:45 PM	0	72	0	72	112	0	0	112	2	1	0	3	187
Total Volume	0	305	0	305	356	0	0	356	12	8	0	20	681
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		60.0	40.0	0.0		
PHF	0.000	0.897	0.000	0.897	0.795	0.000	0.000	0.795	0.600	0.333	0.000	0.455	0.910
Entering Leg	0	305	0	305	356	0	0	356	12	8	0	20	681
Exiting Leg				364				317				0	681
Total				669				673				20	1362

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	2	0	2	4	0	0	4	0	0	0	0	6
4:15 PM	0	1	0	1	5	0	0	5	0	2	0	2	8
4:30 PM	0	4	0	4	4	0	0	4	1	0	0	1	9
4:45 PM	0	2	0	2	7	0	0	7	0	0	0	0	9
Total	0	9	0	9	20	0	0	20	1	2	0	3	32
5:00 PM	0	1	0	1	6	0	0	6	0	0	0	0	7
5:15 PM	0	3	0	3	7	0	0	7	0	0	0	0	10
5:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
5:45 PM	0	2	0	2	3	0	0	3	0	1	0	1	6
Total	0	9	0	9	17	0	0	17	0	1	0	1	27
Grand Total	0	18	0	18	37	0	0	37	1	3	0	4	59
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		25.0	75.0	0.0		
Total %	0.0	30.5	0.0	30.5	62.7	0.0	0.0	62.7	1.7	5.1	0.0	6.8	
Exiting Leg Total				40				19				0	59
Buses	0	9	0	9	7	0	0	7	0	0	0	0	16
% Buses	0.0	50.0	0.0	50.0	18.9	0.0	0.0	18.9	0.0	0.0	0.0	0.0	27.1
Exiting Leg Total				7				9				0	16
Single-Unit Trucks	0	8	0	8	19	0	0	19	1	2	0	3	30
% Single-Unit	0.0	44.4	0.0	44.4	51.4	0.0	0.0	51.4	100.0	66.7	0.0	75.0	50.8
Exiting Leg Total				21				9				0	30
Articulated Trucks	0	1	0	1	11	0	0	11	0	1	0	1	13
% Articulated	0.0	5.6	0.0	5.6	29.7	0.0	0.0	29.7	0.0	33.3	0.0	25.0	22.0
Exiting Leg Total				12				1				0	13

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	4	0	4	4	0	0	4	1	0	0	1	9
4:45 PM	0	2	0	2	7	0	0	7	0	0	0	0	9
5:00 PM	0	1	0	1	6	0	0	6	0	0	0	0	7
5:15 PM	0	3	0	3	7	0	0	7	0	0	0	0	10
Total Volume	0	10	0	10	24	0	0	24	1	0	0	1	35
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.625	0.857	0.000	0.000	0.857	0.250	0.000	0.000	0.250	0.875
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Buses %	0.0	50.0	0.0	50.0	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	25.7
Single-Unit Trucks	0	5	0	5	12	0	0	12	1	0	0	1	18
Single-Unit %	0.0	50.0	0.0	50.0	50.0	0.0	0.0	50.0	100.0	0.0	0.0	100.0	51.4
Articulated Trucks	0	0	0	0	8	0	0	8	0	0	0	0	8
Articulated %	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	22.9
Buses	0	5	0	5	4	0	0	4	0	0	0	0	9
Single-Unit Trucks	0	5	0	5	12	0	0	12	1	0	0	1	18
Articulated Trucks	0	0	0	0	8	0	0	8	0	0	0	0	8
Total Entering Leg	0	10	0	10	24	0	0	24	1	0	0	1	35
Buses				4				5				0	9
Single-Unit Trucks				12				6				0	18
Articulated Trucks				8				0				0	8
Total Exiting Leg				24				11				0	35

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
Total	0	5	0	5	3	0	0	3	0	0	0	0	8
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
5:15 PM	0	1	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:45 PM	0	2	0	2	1	0	0	1	0	0	0	0	3
Total	0	4	0	4	4	0	0	4	0	0	0	0	8
Grand Total	0	9	0	9	7	0	0	7	0	0	0	0	16
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
Total %	0.0	56.3	0.0	56.3	43.8	0.0	0.0	43.8	0.0	0.0	0.0	0.0	
Exiting Leg Total				7				9				0	16

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:15 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:30 PM	0	3	0	3	1	0	0	1	0	0	0	0	4
4:45 PM	0	1	0	1	1	0	0	1	0	0	0	0	2
5:00 PM	0	0	0	0	2	0	0	2	0	0	0	0	2
Total Volume	0	4	0	4	5	0	0	5	0	0	0	0	9
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.000	0.333	0.000	0.333	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.563
Entering Leg	0	4	0	4	5	0	0	5	0	0	0	0	9
Exiting Leg				5				4				0	9
Total				9				9				0	18

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Single-Unit Trucks

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
4:15 PM	0	0	0	0	2	0	0	2	0	1	0	1	3
4:30 PM	0	1	0	1	2	0	0	2	1	0	0	1	4
4:45 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
Total	0	3	0	3	10	0	0	10	1	1	0	2	15
5:00 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
5:15 PM	0	2	0	2	4	0	0	4	0	0	0	0	6
5:30 PM	0	2	0	2	0	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	2	0	0	2	0	1	0	1	3
Total	0	5	0	5	9	0	0	9	0	1	0	1	15
Grand Total	0	8	0	8	19	0	0	19	1	2	0	3	30
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		33.3	66.7	0.0		
Total %	0.0	26.7	0.0	26.7	63.3	0.0	0.0	63.3	3.3	6.7	0.0	10.0	
Exiting Leg Total				21				9				0	30

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:30 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:30 PM	0	1	0	1	2	0	0	2	1	0	0	1	4
4:45 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
5:00 PM	0	1	0	1	3	0	0	3	0	0	0	0	4
5:15 PM	0	2	0	2	4	0	0	4	0	0	0	0	6
Total Volume	0	5	0	5	12	0	0	12	1	0	0	1	18
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		100.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.625	0.750	0.000	0.000	0.750	0.250	0.000	0.000	0.250	0.750
Entering Leg	0	5	0	5	12	0	0	12	1	0	0	1	18
Exiting Leg				12				6				0	18
Total				17				18				1	36

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Articulated Trucks

	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:15 PM	0	1	0	1	2	0	0	2	0	1	0	1	4
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
Total	0	1	0	1	7	0	0	7	0	1	0	1	9
5:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	4	0	0	4	0	0	0	0	4
Grand Total	0	1	0	1	11	0	0	11	0	1	0	1	13
Approach %	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	0.0	7.7	0.0	7.7	84.6	0.0	0.0	84.6	0.0	7.7	0.0	7.7	
Exiting Leg Total				12				1				0	13

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North				Walnut Street from South				Page Road from West				
	Right	Thru	U-Turn	Total	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:15 PM	0	1	0	1	2	0	0	2	0	1	0	1	4
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	3	0	0	3	0	0	0	0	3
Total Volume	0	1	0	1	7	0	0	7	0	1	0	1	9
% Approach Total	0.0	100.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.000	0.250	0.000	0.250	0.583	0.000	0.000	0.583	0.000	0.250	0.000	0.250	0.563
Entering Leg	0	1	0	1	7	0	0	7	0	1	0	1	9
Exiting Leg				8				1				0	9
Total				9				8				1	18

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	4	0	0	0	0	4	0	0	0	0	0	0	5
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	2	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	5
4:45 PM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
Total	0	5	0	0	0	5	7	0	0	0	0	7	2	0	0	0	0	2	14
5:00 PM	0	1	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0	2
5:15 PM	0	2	0	0	0	2	2	0	0	0	0	2	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	2	0	0	0	2	1	0	0	0	0	1	0	0	0	0	0	0	3
Total	0	5	0	0	0	5	4	0	0	0	0	4	0	0	0	0	0	0	9
Grand Total	0	10	0	0	0	10	11	0	0	0	0	11	2	0	0	0	0	2	23
Approach %	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		
Total %	0.0	43.5	0.0	0.0	0.0	43.5	47.8	0.0	0.0	0.0	0.0	47.8	8.7	0.0	0.0	0.0	0.0	8.7	
Exiting Leg Total						11						12						0	23

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	1	0	0	0	1	4	0	0	0	0	4	0	0	0	0	0	0	5
4:15 PM	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	2	0	0	0	2	1	0	0	0	0	1	2	0	0	0	0	2	5
4:45 PM	0	1	0	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	3
Total Volume	0	5	0	0	0	5	7	0	0	0	0	7	2	0	0	0	0	2	14
% Approach Total	0.0	100.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.625	0.000	0.000	0.000	0.625	0.438	0.000	0.000	0.000	0.000	0.438	0.250	0.000	0.000	0.000	0.000	0.250	0.700
Entering Leg	0	5	0	0	0	5	7	0	0	0	0	7	2	0	0	0	0	2	14
Exiting Leg						7						7						0	14
Total						12						14						2	28

PDI File #: **228976 F**
Location: **N: Walnut Street S: Walnut Street**
Location: **W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3	24	24
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	8	2	10	11
4:30 PM	0	0	0	0	0	0	0	0	0	2	2	4	0	0	0	4	2	6	10
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3	10	10
Total	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	40	10	50	55
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	2	2	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	4
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
Total	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	8	3	11	13
Grand Total	0	0	0	0	0	0	0	0	0	2	5	7	0	0	0	48	13	61	68
Approach %	0	0	0	0	0		0	0	0	28.571	71.429		0	0	0	78.689	21.311		
Total %	0	0	0	0	0	0	0	0	0	2.9412	7.3529	10.294	0	0	0	70.588	19.118	89.706	
Exiting Leg Total						0						7						61	68

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Walnut Street from North						Walnut Street from South						Page Road from West						
	Right	Thru	U-Turn	CW-EB	CW-WB	Total	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	3	24	24
4:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	8	2	10	11
4:30 PM	0	0	0	0	0	0	0	0	0	2	2	4	0	0	0	4	2	6	10
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	3	10	10
Total Volume	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	40	10	50	55
% Approach Total	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	40.0	60.0		0.0	0.0	0.0	80.0	20.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.375	0.313	0.000	0.000	0.000	0.476	0.833	0.521	0.573
Entering Leg	0	0	0	0	0	0	0	0	0	2	3	5	0	0	0	40	10	50	55
Exiting Leg						0						5						50	55
Total						0						10						100	110

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	18	0	0	18	0	0	0	0	0	28	0	28	46
7:15 AM	27	0	0	27	0	0	0	0	0	39	0	39	66
7:30 AM	32	0	0	32	4	1	0	5	0	39	0	39	76
7:45 AM	62	0	0	62	2	3	0	5	0	50	0	50	117
Total	139	0	0	139	6	4	0	10	0	156	0	156	305
8:00 AM	46	0	0	46	2	0	0	2	2	37	0	39	87
8:15 AM	3	0	0	3	0	2	0	2	0	20	1	21	26
8:30 AM	1	0	0	1	3	2	0	5	0	0	0	0	6
8:45 AM	2	1	0	3	1	2	0	3	0	6	0	6	12
Total	52	1	0	53	6	6	0	12	2	63	1	66	131
Grand Total	191	1	0	192	12	10	0	22	2	219	1	222	436
Approach %	99.5	0.5	0.0		54.5	45.5	0.0		0.9	98.6	0.5		
Total %	43.8	0.2	0.0	44.0	2.8	2.3	0.0	5.0	0.5	50.2	0.2	50.9	
Exiting Leg Total				231				3				202	436
Cars	180	1	0	181	12	9	0	21	2	212	1	215	417
% Cars	94.2	100.0	0.0	94.3	100.0	90.0	0.0	95.5	100.0	96.8	100.0	96.8	95.6
Exiting Leg Total				224				3				190	417
Heavy Vehicles	11	0	0	11	0	1	0	1	0	7	0	7	19
% Heavy Vehicles	5.8	0.0	0.0	5.7	0.0	10.0	0.0	4.5	0.0	3.2	0.0	3.2	4.4
Exiting Leg Total				7				0				12	19

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:15 AM	27	0	0	27	0	0	0	0	0	39	0	39	66
7:30 AM	32	0	0	32	4	1	0	5	0	39	0	39	76
7:45 AM	62	0	0	62	2	3	0	5	0	50	0	50	117
8:00 AM	46	0	0	46	2	0	0	2	2	37	0	39	87
Total Volume	167	0	0	167	8	4	0	12	2	165	0	167	346
% Approach Total	100.0	0.0	0.0		66.7	33.3	0.0		1.2	98.8	0.0		
PHF	0.673	0.000	0.000	0.673	0.500	0.333	0.000	0.600	0.250	0.825	0.000	0.835	0.739
Cars	156	0	0	156	8	4	0	12	2	159	0	161	329
Cars %	93.4	0.0	0.0	93.4	100.0	100.0	0.0	100.0	100.0	96.4	0.0	96.4	95.1
Heavy Vehicles	11	0	0	11	0	0	0	0	0	6	0	6	17
Heavy Vehicles %	6.6	0.0	0.0	6.6	0.0	0.0	0.0	0.0	0.0	3.6	0.0	3.6	4.9
Cars Enter Leg	156	0	0	156	8	4	0	12	2	159	0	161	329
Heavy Enter Leg	11	0	0	11	0	0	0	0	0	6	0	6	17
Total Entering Leg	167	0	0	167	8	4	0	12	2	165	0	167	346
Cars Exiting Leg				167				2				160	329
Heavy Exiting Leg				6				0				11	17
Total Exiting Leg				173				2				171	346

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	18	0	0	18	0	0	0	0	0	27	0	27	45
7:15 AM	26	0	0	26	0	0	0	0	0	36	0	36	62
7:30 AM	30	0	0	30	4	1	0	5	0	37	0	37	72
7:45 AM	57	0	0	57	2	3	0	5	0	49	0	49	111
Total	131	0	0	131	6	4	0	10	0	149	0	149	290
8:00 AM	43	0	0	43	2	0	0	2	2	37	0	39	84
8:15 AM	3	0	0	3	0	2	0	2	0	20	1	21	26
8:30 AM	1	0	0	1	3	1	0	4	0	0	0	0	5
8:45 AM	2	1	0	3	1	2	0	3	0	6	0	6	12
Total	49	1	0	50	6	5	0	11	2	63	1	66	127
Grand Total	180	1	0	181	12	9	0	21	2	212	1	215	417
Approach %	99.4	0.6	0.0		57.1	42.9	0.0		0.9	98.6	0.5		
Total %	43.2	0.2	0.0	43.4	2.9	2.2	0.0	5.0	0.5	50.8	0.2	51.6	
Exiting Leg Total				224				3				190	417

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:15 AM	26	0	0	26	0	0	0	0	0	36	0	36	62
7:30 AM	30	0	0	30	4	1	0	5	0	37	0	37	72
7:45 AM	57	0	0	57	2	3	0	5	0	49	0	49	111
8:00 AM	43	0	0	43	2	0	0	2	2	37	0	39	84
Total Volume	156	0	0	156	8	4	0	12	2	159	0	161	329
% Approach Total	100.0	0.0	0.0		66.7	33.3	0.0		1.2	98.8	0.0		
PHF	0.684	0.000	0.000	0.684	0.500	0.333	0.000	0.600	0.250	0.811	0.000	0.821	0.741
Entering Leg	156	0	0	156	8	4	0	12	2	159	0	161	329
Exiting Leg				167				2				160	329
Total				323				14				321	658

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
7:15 AM	1	0	0	1	0	0	0	0	0	3	0	3	4
7:30 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
7:45 AM	5	0	0	5	0	0	0	0	0	1	0	1	6
Total	8	0	0	8	0	0	0	0	0	7	0	7	15
8:00 AM	3	0	0	3	0	0	0	0	0	0	0	0	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	1	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	3	0	0	3	0	1	0	1	0	0	0	0	4
Grand Total	11	0	0	11	0	1	0	1	0	7	0	7	19
Approach %	100.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
Total %	57.9	0.0	0.0	57.9	0.0	5.3	0.0	5.3	0.0	36.8	0.0	36.8	
Exiting Leg Total				7				0				12	19
Buses	2	0	0	2	0	0	0	0	0	1	0	1	3
% Buses	18.2	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	14.3	0.0	14.3	15.8
Exiting Leg Total				1				0				2	3
Single-Unit Trucks	5	0	0	5	0	1	0	1	0	5	0	5	11
% Single-Unit	45.5	0.0	0.0	45.5	0.0	100.0	0.0	100.0	0.0	71.4	0.0	71.4	57.9
Exiting Leg Total				5				0				6	11
Articulated Trucks	4	0	0	4	0	0	0	0	0	1	0	1	5
% Articulated	36.4	0.0	0.0	36.4	0.0	0.0	0.0	0.0	0.0	14.3	0.0	14.3	26.3
Exiting Leg Total				1				0				4	5

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:15 AM	1	0	0	1	0	0	0	0	0	3	0	3	4
7:30 AM	2	0	0	2	0	0	0	0	0	2	0	2	4
7:45 AM	5	0	0	5	0	0	0	0	0	1	0	1	6
8:00 AM	3	0	0	3	0	0	0	0	0	0	0	0	3
Total Volume	11	0	0	11	0	0	0	0	0	6	0	6	17
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.550	0.000	0.000	0.550	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.708
Buses	2	0	0	2	0	0	0	0	0	1	0	1	3
Buses %	18.2	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	16.7	0.0	16.7	17.6
Single-Unit Trucks	5	0	0	5	0	0	0	0	0	5	0	5	10
Single-Unit %	45.5	0.0	0.0	45.5	0.0	0.0	0.0	0.0	0.0	83.3	0.0	83.3	58.8
Articulated Trucks	4	0	0	4	0	0	0	0	0	0	0	0	4
Articulated %	36.4	0.0	0.0	36.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.5
Buses	2	0	0	2	0	0	0	0	0	1	0	1	3
Single-Unit Trucks	5	0	0	5	0	0	0	0	0	5	0	5	10
Articulated Trucks	4	0	0	4	0	0	0	0	0	0	0	0	4
Total Entering Leg	11	0	0	11	0	0	0	0	0	6	0	6	17
Buses				1				0				2	3
Single-Unit Trucks				5				0				5	10
Articulated Trucks				0				0				4	4
Total Exiting Leg				6				0				11	17

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
7:45 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	2	0	0	2	0	0	0	0	0	1	0	1	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	2	0	0	2	0	0	0	0	0	1	0	1	3
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	
Exiting Leg Total				1				0				2	3

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	1	0	0	0	0	0	1	0	1	2
7:45 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total Volume	2	0	0	2	0	0	0	0	0	1	0	1	3
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.375
Entering Leg	2	0	0	2	0	0	0	0	0	1	0	1	3
Exiting Leg				1				0				2	3
Total				3				0				3	6

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	1	0	0	1	0	0	0	0	0	3	0	3	4
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
7:45 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total	3	0	0	3	0	0	0	0	0	5	0	5	8
8:00 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	1	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	0	0	2	0	1	0	1	0	0	0	0	3
Grand Total	5	0	0	5	0	1	0	1	0	5	0	5	11
Approach %	100.0	0.0	0.0		0.0	100.0	0.0		0.0	100.0	0.0		
Total %	45.5	0.0	0.0	45.5	0.0	9.1	0.0	9.1	0.0	45.5	0.0	45.5	
Exiting Leg Total				5				0				6	11

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:15 AM	1	0	0	1	0	0	0	0	0	3	0	3	4
7:30 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
7:45 AM	2	0	0	2	0	0	0	0	0	1	0	1	3
8:00 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
Total Volume	5	0	0	5	0	0	0	0	0	5	0	5	10
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.625	0.000	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.417	0.000	0.417	0.625
Entering Leg	5	0	0	5	0	0	0	0	0	5	0	5	10
Exiting Leg				5				0				5	10
Total				10				0				10	20

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Articulated Trucks**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
Total	3	0	0	3	0	0	0	0	0	1	0	1	4
8:00 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	4	0	0	4	0	0	0	0	0	1	0	1	5
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	80.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	20.0	
Exiting Leg Total				1				0				4	5

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	1	0	0	0	0	0	0	0	0	1
7:45 AM	2	0	0	2	0	0	0	0	0	0	0	0	2
Total Volume	3	0	0	3	0	0	0	0	0	1	0	1	4
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.500
Entering Leg	3	0	0	3	0	0	0	0	0	1	0	1	4
Exiting Leg				1				0				3	4
Total				4				0				4	8

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	2	3
7:45 AM	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	1	0	0	0	2	3	0	3	0	0	0	3	6
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
8:30 AM	0	0	0	0	0	0	1	0	0	0	0	1	0	1	0	0	0	1	2
8:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	1	0	0	1	0	2	0	2	0	0	0	2	4
Grand Total	0	0	0	0	0	0	2	0	0	1	2	5	0	5	0	0	0	5	10
Approach %	0.0	0.0	0.0	0.0	0.0		40.0	0.0	0.0	20.0	40.0		0.0	100.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	10.0	20.0	50.0	0.0	50.0	0.0	0.0	0.0	50.0	
Exiting Leg Total						7						3						0	10

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	2	3
7:45 AM	0	0	0	0	0	0	1	0	0	0	1	2	0	0	0	0	0	0	2
Total Volume	0	0	0	0	0	0	1	0	0	0	2	3	0	3	0	0	0	3	6
% Approach Total	0.0	0.0	0.0	0.0	0.0		33.3	0.0	0.0	0.0	66.7		0.0	100.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.500	0.375	0.000	0.375	0.000	0.000	0.000	0.375	0.500
Entering Leg	0	0	0	0	0	0	1	0	0	0	2	3	0	3	0	0	0	3	6
Exiting Leg						4						2						0	6
Total						4						5						3	12

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
7:00 AM	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	0	0	0	6
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
Total	0	0	0	2	2	4	0	0	0	5	0	5	0	0	0	0	0	0	9
8:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	2	3
8:15 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	4	0	4	0	0	0	0	0	0	4
8:45 AM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	1	2
Total	0	0	0	0	0	0	0	0	0	6	1	7	0	0	0	2	1	3	10
Grand Total	0	0	0	2	2	4	0	0	0	11	1	12	0	0	0	2	1	3	19
Approach %	0	0	0	50	50		0	0	0	91.667	8.3333		0	0	0	66.667	33.333		
Total %	0	0	0	10.526	10.526	21.053	0	0	0	57.895	5.2632	63.158	0	0	0	10.526	5.2632	15.789	
Exiting Leg Total						4						12						3	19

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
7:15 AM	0	0	0	2	0	2	0	0	0	4	0	4	0	0	0	0	0	0	6
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1
8:00 AM	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	2	0	2	3
Total Volume	0	0	0	2	0	2	0	0	0	6	0	6	0	0	0	2	0	2	10
% Approach Total	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.375	0.000	0.375	0.000	0.000	0.000	0.250	0.000	0.250	0.417
Entering Leg	0	0	0	2	0	2	0	0	0	6	0	6	0	0	0	2	0	2	10
Exiting Leg						2						6						2	10
Total						4						12						4	20

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars and Heavy Vehicles (Combined)**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	55	0	1	56	1	1	0	2	0	54	0	54	112
4:15 PM	45	0	0	45	2	3	0	5	0	40	0	40	90
4:30 PM	51	0	0	51	1	2	0	3	0	32	0	32	86
4:45 PM	58	0	0	58	2	3	0	5	0	40	0	40	103
Total	209	0	1	210	6	9	0	15	0	166	0	166	391
5:00 PM	71	0	0	71	1	3	0	4	0	38	0	38	113
5:15 PM	51	0	0	51	3	6	0	9	1	44	0	45	105
5:30 PM	38	0	0	38	4	2	0	6	0	51	0	51	95
5:45 PM	41	0	0	41	0	4	0	4	0	49	0	49	94
Total	201	0	0	201	8	15	0	23	1	182	0	183	407
Grand Total	410	0	1	411	14	24	0	38	1	348	0	349	798
Approach %	99.8	0.0	0.2		36.8	63.2	0.0		0.3	99.7	0.0		
Total %	51.4	0.0	0.1	51.5	1.8	3.0	0.0	4.8	0.1	43.6	0.0	43.7	
Exiting Leg Total				363				1				434	798
Cars	402	0	1	403	13	24	0	37	1	342	0	343	783
% Cars	98.0	0.0	100.0	98.1	92.9	100.0	0.0	97.4	100.0	98.3	0.0	98.3	98.1
Exiting Leg Total				356				1				426	783
Heavy Vehicles	8	0	0	8	1	0	0	1	0	6	0	6	15
% Heavy Vehicles	2.0	0.0	0.0	1.9	7.1	0.0	0.0	2.6	0.0	1.7	0.0	1.7	1.9
Exiting Leg Total				7				0				8	15

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:45 PM	58	0	0	58	2	3	0	5	0	40	0	40	103
5:00 PM	71	0	0	71	1	3	0	4	0	38	0	38	113
5:15 PM	51	0	0	51	3	6	0	9	1	44	0	45	105
5:30 PM	38	0	0	38	4	2	0	6	0	51	0	51	95
Total Volume	218	0	0	218	10	14	0	24	1	173	0	174	416
% Approach Total	100.0	0.0	0.0		41.7	58.3	0.0		0.6	99.4	0.0		
PHF	0.768	0.000	0.000	0.768	0.625	0.583	0.000	0.667	0.250	0.848	0.000	0.853	0.920
Cars	215	0	0	215	9	14	0	23	1	170	0	171	409
Cars %	98.6	0.0	0.0	98.6	90.0	100.0	0.0	95.8	100.0	98.3	0.0	98.3	98.3
Heavy Vehicles	3	0	0	3	1	0	0	1	0	3	0	3	7
Heavy Vehicles %	1.4	0.0	0.0	1.4	10.0	0.0	0.0	4.2	0.0	1.7	0.0	1.7	1.7
Cars Enter Leg	215	0	0	215	9	14	0	23	1	170	0	171	409
Heavy Enter Leg	3	0	0	3	1	0	0	1	0	3	0	3	7
Total Entering Leg	218	0	0	218	10	14	0	24	1	173	0	174	416
Cars Exiting Leg				179				1				229	409
Heavy Exiting Leg				4				0				3	7
Total Exiting Leg				183				1				232	416

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Cars**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	54	0	1	55	1	1	0	2	0	54	0	54	111
4:15 PM	43	0	0	43	2	3	0	5	0	38	0	38	86
4:30 PM	50	0	0	50	1	2	0	3	0	31	0	31	84
4:45 PM	56	0	0	56	2	3	0	5	0	39	0	39	100
Total	203	0	1	204	6	9	0	15	0	162	0	162	381
5:00 PM	71	0	0	71	1	3	0	4	0	37	0	37	112
5:15 PM	50	0	0	50	3	6	0	9	1	44	0	45	104
5:30 PM	38	0	0	38	3	2	0	5	0	50	0	50	93
5:45 PM	40	0	0	40	0	4	0	4	0	49	0	49	93
Total	199	0	0	199	7	15	0	22	1	180	0	181	402
Grand Total	402	0	1	403	13	24	0	37	1	342	0	343	783
Approach %	99.8	0.0	0.2		35.1	64.9	0.0		0.3	99.7	0.0		
Total %	51.3	0.0	0.1	51.5	1.7	3.1	0.0	4.7	0.1	43.7	0.0	43.8	
Exiting Leg Total				356				1				426	783

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:45 PM	56	0	0	56	2	3	0	5	0	39	0	39	100
5:00 PM	71	0	0	71	1	3	0	4	0	37	0	37	112
5:15 PM	50	0	0	50	3	6	0	9	1	44	0	45	104
5:30 PM	38	0	0	38	3	2	0	5	0	50	0	50	93
Total Volume	215	0	0	215	9	14	0	23	1	170	0	171	409
% Approach Total	100.0	0.0	0.0		39.1	60.9	0.0		0.6	99.4	0.0		
PHF	0.757	0.000	0.000	0.757	0.750	0.583	0.000	0.639	0.250	0.850	0.000	0.855	0.913
Entering Leg	215	0	0	215	9	14	0	23	1	170	0	171	409
Exiting Leg				179				1				229	409
Total				394				24				400	818

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
4:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
4:45 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total	6	0	0	6	0	0	0	0	0	4	0	4	10
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	1	0	0	1	0	1	0	1	2
5:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	2	0	0	2	1	0	0	1	0	2	0	2	5
Grand Total	8	0	0	8	1	0	0	1	0	6	0	6	15
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	53.3	0.0	0.0	53.3	6.7	0.0	0.0	6.7	0.0	40.0	0.0	40.0	
Exiting Leg Total				7				0				8	15
Buses	2	0	0	2	0	0	0	0	0	1	0	1	3
% Buses	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	16.7	0.0	16.7	20.0
Exiting Leg Total				1				0				2	3
Single-Unit Trucks	4	0	0	4	1	0	0	1	0	3	0	3	8
% Single-Unit	50.0	0.0	0.0	50.0	100.0	0.0	0.0	100.0	0.0	50.0	0.0	50.0	53.3
Exiting Leg Total				4				0				4	8
Articulated Trucks	2	0	0	2	0	0	0	0	0	2	0	2	4
% Articulated	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	26.7
Exiting Leg Total				2				0				2	4

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	2	0	0	2	0	0	0	0	0	2	0	2	4
4:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
4:45 PM	2	0	0	2	0	0	0	0	0	1	0	1	3
Total Volume	6	0	0	6	0	0	0	0	0	4	0	4	10
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.625
Buses	2	0	0	2	0	0	0	0	0	0	0	0	2
Buses %	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Single-Unit Trucks	3	0	0	3	0	0	0	0	0	2	0	2	5
Single-Unit %	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	50.0
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Articulated %	16.7	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	30.0
Buses	2	0	0	2	0	0	0	0	0	0	0	0	2
Single-Unit Trucks	3	0	0	3	0	0	0	0	0	2	0	2	5
Articulated Trucks	1	0	0	1	0	0	0	0	0	2	0	2	3
Total Entering Leg	6	0	0	6	0	0	0	0	0	4	0	4	10
Buses				0				0				2	2
Single-Unit Trucks				2				0				3	5
Articulated Trucks				2				0				1	3
Total Exiting Leg				4				0				6	10

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2	0	0	2	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	0	0	0	0	0	0	0	1	0	1	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	1	0	1	1
Grand Total	2	0	0	2	0	0	0	0	0	1	0	1	3
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	33.3	0.0	33.3	
Exiting Leg Total				1				0				2	3

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	2	0	0	2	0	0	0	0	0	0	0	0	2
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	0.0	0.0		
PHF	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	2	0	0	2	0	0	0	0	0	0	0	0	2
Exiting Leg				0				0				2	2
Total				2				0				2	4

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
4:45 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
Total	3	0	0	3	0	0	0	0	0	2	0	2	5
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	0	0	1	0	1	0	1	2
5:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	1	0	0	1	1	0	0	1	0	1	0	1	3
Grand Total	4	0	0	4	1	0	0	1	0	3	0	3	8
Approach %	100.0	0.0	0.0		100.0	0.0	0.0		0.0	100.0	0.0		
Total %	50.0	0.0	0.0	50.0	12.5	0.0	0.0	12.5	0.0	37.5	0.0	37.5	
Exiting Leg Total				4				0				4	8

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
4:30 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
4:45 PM	1	0	0	1	0	0	0	0	0	1	0	1	2
Total Volume	3	0	0	3	0	0	0	0	0	2	0	2	5
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.750	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.500	0.625
Entering Leg	3	0	0	3	0	0	0	0	0	2	0	2	5
Exiting Leg				2				0				3	5
Total				5				0				5	10

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Articulated Trucks**

	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total	1	0	0	1	0	0	0	0	0	2	0	2	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1	0	0	1	0	0	0	0	0	0	0	0	1
Grand Total	2	0	0	2	0	0	0	0	0	2	0	2	4
Approach %	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
Total %	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0	
Exiting Leg Total				2				0				2	4

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North				Foster Street from East				Lowell Avenue from South				
	Thru	Left	U-Turn	Total	Right	Left	U-Turn	Total	Right	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	2	0	2	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	1	0	0	1	0	0	0	0	0	0	0	0	1
Total Volume	1	0	0	1	0	0	0	0	0	2	0	2	3
% Approach Total	100.0	0.0	0.0		0.0	0.0	0.0		0.0	100.0	0.0		
PHF	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.375
Entering Leg	1	0	0	1	0	0	0	0	0	2	0	2	3
Exiting Leg				2				0				1	3
Total				3				0				3	6

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	3
Total	3	0	0	0	0	3	0	0	0	0	1	1	0	1	0	0	0	1	5
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
5:45 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	4	0	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	1	5
Grand Total	7	0	0	0	0	7	0	0	0	0	1	1	0	2	0	0	0	2	10
Approach %	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		0.0	100.0	0.0	0.0	0.0		
Total %	70.0	0.0	0.0	0.0	0.0	70.0	0.0	0.0	0.0	0.0	10.0	10.0	0.0	20.0	0.0	0.0	0.0	20.0	
Exiting Leg Total						2						1						7	10

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
4:15 PM	1	0	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	2	0	0	0	0	2	0	0	0	0	0	0	0	1	0	0	0	1	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Total Volume	3	0	0	0	0	3	0	0	0	0	1	1	0	2	0	0	0	2	6
% Approach Total	100.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	100.0		0.0	100.0	0.0	0.0	0.0		
PHF	0.375	0.000	0.000	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.500	0.000	0.000	0.000	0.500	0.500
Entering Leg	3	0	0	0	0	3	0	0	0	0	1	1	0	2	0	0	0	2	6
Exiting Leg						2						1						3	6
Total						5						2						5	12

PDI File #: **228976 G**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Foster Street**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	8
4:15 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	5
4:45 PM	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	1	3
Total	0	0	0	1	1	2	0	0	0	1	14	15	0	0	0	1	0	1	18
5:00 PM	0	0	0	0	1	1	0	0	0	2	0	2	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	1	1	0	0	0	0	4	4	0	0	0	0	0	0	5
5:45 PM	0	0	0	1	0	1	0	0	0	0	2	2	0	0	0	0	0	0	3
Total	0	0	0	1	2	3	0	0	0	2	6	8	0	0	0	0	0	0	11
Grand Total	0	0	0	2	3	5	0	0	0	3	20	23	0	0	0	1	0	1	29
Approach %	0	0	0	40	60		0	0	0	13.043	86.957		0	0	0	100	0		
Total %	0	0	0	6.8966	10.345	17.241	0	0	0	10.345	68.966	79.31	0	0	0	3.4483	0	3.4483	
Exiting Leg Total						5						23						1	29

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North						Foster Street from East						Lowell Avenue from South						
	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	U-Turn	CW-WB	CW-EB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	8	8	0	0	0	0	0	0	8
4:15 PM	0	0	0	1	0	1	0	0	0	1	0	1	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	5	5	0	0	0	0	0	0	5
4:45 PM	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	1	0	1	3
Total Volume	0	0	0	1	1	2	0	0	0	1	14	15	0	0	0	1	0	1	18
% Approach Total	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	6.7	93.3		0.0	0.0	0.0	100.0	0.0		
PHF	0.000	0.000	0.000	0.250	0.250	0.500	0.000	0.000	0.000	0.250	0.438	0.469	0.000	0.000	0.000	0.250	0.000	0.250	0.563
Entering Leg	0	0	0	1	1	2	0	0	0	1	14	15	0	0	0	1	0	1	18
Exiting Leg						2						15						1	18
Total						4						30						2	36

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	28	0	0	28	0	0	0	0	0	0	19	0	0	19	0	0	0	0	0	47
7:15 AM	0	36	1	0	37	0	0	0	0	0	1	29	0	0	30	0	0	0	0	0	67
7:30 AM	5	34	3	0	42	0	0	0	0	0	2	34	0	0	36	0	0	0	0	0	78
7:45 AM	2	49	4	0	55	0	0	0	0	0	1	64	2	0	67	0	0	0	0	0	122
Total	7	147	8	0	162	0	0	0	0	0	4	146	2	0	152	0	0	0	0	0	314
8:00 AM	1	32	5	0	38	0	0	0	0	0	0	42	1	0	43	0	0	0	0	0	81
8:15 AM	1	15	3	0	19	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	22
8:30 AM	1	1	1	0	3	0	0	0	0	0	3	2	4	0	9	0	0	0	0	0	12
8:45 AM	0	7	0	0	7	0	0	0	0	0	5	3	7	0	15	0	0	0	0	0	22
Total	3	55	9	0	67	0	0	0	0	0	9	48	13	0	70	0	0	0	0	0	137
Grand Total	10	202	17	0	229	0	0	0	0	0	13	194	15	0	222	0	0	0	0	0	451
Approach %	4.4	88.2	7.4	0.0		0.0	0.0	0.0	0.0		5.9	87.4	6.8	0.0		0.0	0.0	0.0	0.0		
Total %	2.2	44.8	3.8	0.0	50.8	0.0	0.0	0.0	0.0	0.0	2.9	43.0	3.3	0.0	49.2	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					194					30					202					25	451
Cars	9	196	17	0	222	0	0	0	0	0	13	184	13	0	210	0	0	0	0	0	432
% Cars	90.0	97.0	100.0	0.0	96.9	0.0	0.0	0.0	0.0	0.0	100.0	94.8	86.7	0.0	94.6	0.0	0.0	0.0	0.0	0.0	95.8
Exiting Leg Total					184					30					196					22	432
Heavy Vehicles	1	6	0	0	7	0	0	0	0	0	0	10	2	0	12	0	0	0	0	0	19
% Heavy Vehicles	10.0	3.0	0.0	0.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	5.2	13.3	0.0	5.4	0.0	0.0	0.0	0.0	0.0	4.2
Exiting Leg Total					10					0					6					3	19

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:15 AM	0	36	1	0	37	0	0	0	0	0	1	29	0	0	30	0	0	0	0	0	67
7:30 AM	5	34	3	0	42	0	0	0	0	0	2	34	0	0	36	0	0	0	0	0	78
7:45 AM	2	49	4	0	55	0	0	0	0	0	1	64	2	0	67	0	0	0	0	0	122
8:00 AM	1	32	5	0	38	0	0	0	0	0	0	42	1	0	43	0	0	0	0	0	81
Total Volume	8	151	13	0	172	0	0	0	0	0	4	169	3	0	176	0	0	0	0	0	348
% Approach Total	4.7	87.8	7.6	0.0		0.0	0.0	0.0	0.0		2.3	96.0	1.7	0.0		0.0	0.0	0.0	0.0		
PHF	0.400	0.770	0.650	0.000	0.782	0.000	0.000	0.000	0.000	0.000	0.500	0.660	0.375	0.000	0.657	0.000	0.000	0.000	0.000	0.000	0.713
Cars	7	146	13	0	166	0	0	0	0	0	4	159	2	0	165	0	0	0	0	0	331
Cars %	87.5	96.7	100.0	0.0	96.5	0.0	0.0	0.0	0.0	0.0	100.0	94.1	66.7	0.0	93.8	0.0	0.0	0.0	0.0	0.0	95.1
Heavy Vehicles	1	5	0	0	6	0	0	0	0	0	0	10	1	0	11	0	0	0	0	0	17
Heavy Vehicles %	12.5	3.3	0.0	0.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0	5.9	33.3	0.0	6.3	0.0	0.0	0.0	0.0	0.0	4.9
Cars Enter Leg	7	146	13	0	166	0	0	0	0	0	4	159	2	0	165	0	0	0	0	0	331
Heavy Enter Leg	1	5	0	0	6	0	0	0	0	0	0	10	1	0	11	0	0	0	0	0	17
Total Entering Leg	8	151	13	0	172	0	0	0	0	0	4	169	3	0	176	0	0	0	0	0	348
Cars Exiting Leg					159					17					146					9	331
Heavy Exiting Leg					10					0					5					2	17
Total Exiting Leg					169					17					151					11	348

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	27	0	0	27	0	0	0	0	0	0	19	0	0	19	0	0	0	0	0	46
7:15 AM	0	33	1	0	34	0	0	0	0	0	1	28	0	0	29	0	0	0	0	0	63
7:30 AM	4	33	3	0	40	0	0	0	0	0	2	32	0	0	34	0	0	0	0	0	74
7:45 AM	2	48	4	0	54	0	0	0	0	0	1	60	1	0	62	0	0	0	0	0	116
Total	6	141	8	0	155	0	0	0	0	0	4	139	1	0	144	0	0	0	0	0	299
8:00 AM	1	32	5	0	38	0	0	0	0	0	0	39	1	0	40	0	0	0	0	0	78
8:15 AM	1	15	3	0	19	0	0	0	0	0	1	1	1	0	3	0	0	0	0	0	22
8:30 AM	1	1	1	0	3	0	0	0	0	0	3	2	4	0	9	0	0	0	0	0	12
8:45 AM	0	7	0	0	7	0	0	0	0	0	5	3	6	0	14	0	0	0	0	0	21
Total	3	55	9	0	67	0	0	0	0	0	9	45	12	0	66	0	0	0	0	0	133
Grand Total	9	196	17	0	222	0	0	0	0	0	13	184	13	0	210	0	0	0	0	0	432
Approach %	4.1	88.3	7.7	0.0		0.0	0.0	0.0	0.0		6.2	87.6	6.2	0.0		0.0	0.0	0.0	0.0		
Total %	2.1	45.4	3.9	0.0	51.4	0.0	0.0	0.0	0.0	0.0	3.0	42.6	3.0	0.0	48.6	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					184					30					196					22	432

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:15 AM	0	33	1	0	34	0	0	0	0	0	1	28	0	0	29	0	0	0	0	0	63
7:30 AM	4	33	3	0	40	0	0	0	0	0	2	32	0	0	34	0	0	0	0	0	74
7:45 AM	2	48	4	0	54	0	0	0	0	0	1	60	1	0	62	0	0	0	0	0	116
8:00 AM	1	32	5	0	38	0	0	0	0	0	0	39	1	0	40	0	0	0	0	0	78
Total Volume	7	146	13	0	166	0	0	0	0	0	4	159	2	0	165	0	0	0	0	0	331
% Approach Total	4.2	88.0	7.8	0.0		0.0	0.0	0.0	0.0		2.4	96.4	1.2	0.0		0.0	0.0	0.0	0.0		
PHF	0.438	0.760	0.650	0.000	0.769	0.000	0.000	0.000	0.000	0.000	0.500	0.663	0.500	0.000	0.665	0.000	0.000	0.000	0.000	0.000	0.713
Entering Leg	7	146	13	0	166	0	0	0	0	0	4	159	2	0	165	0	0	0	0	0	331
Exiting Leg					159					17					146					9	331
Total					325					17					311					9	662

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
7:30 AM	1	1	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	6
Total	1	6	0	0	7	0	0	0	0	0	0	7	1	0	8	0	0	0	0	0	15
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	4
Grand Total	1	6	0	0	7	0	0	0	0	0	0	10	2	0	12	0	0	0	0	0	19
Approach %	14.3	85.7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	83.3	16.7	0.0		0.0	0.0	0.0	0.0		
Total %	5.3	31.6	0.0	0.0	36.8	0.0	0.0	0.0	0.0	0.0	0.0	52.6	10.5	0.0	63.2	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					10					0					6					3	19
Buses	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
% Buses	100.0	0.0	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	20.0	50.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	21.1
Exiting Leg Total					2					0					0					2	4
Single-Unit Trucks	0	5	0	0	5	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	12
% Single-Unit	0.0	83.3	0.0	0.0	71.4	0.0	0.0	0.0	0.0	0.0	0.0	60.0	50.0	0.0	58.3	0.0	0.0	0.0	0.0	0.0	63.2
Exiting Leg Total					6					0					5					1	12
Articulated Trucks	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
% Articulated	0.0	16.7	0.0	0.0	14.3	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	15.8
Exiting Leg Total					2					0					1					0	3

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
7:30 AM	1	1	0	0	2	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	4
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	6
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total Volume	1	5	0	0	6	0	0	0	0	0	0	10	1	0	11	0	0	0	0	0	17
% Approach Total	16.7	83.3	0.0	0.0		0.0	0.0	0.0	0.0		0.0	90.9	9.1	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.417	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.625	0.250	0.000	0.550	0.000	0.000	0.000	0.000	0.000	0.708
Buses	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
Buses %	100.0	0.0	0.0	0.0	16.7	0.0	0.0	0.0	0.0	0.0	0.0	20.0	100.0	0.0	27.3	0.0	0.0	0.0	0.0	0.0	23.5
Single-Unit Trucks	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
Single-Unit %	0.0	100.0	0.0	0.0	83.3	0.0	0.0	0.0	0.0	0.0	0.0	60.0	0.0	0.0	54.5	0.0	0.0	0.0	0.0	0.0	64.7
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	18.2	0.0	0.0	0.0	0.0	0.0	11.8
Buses	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
Single-Unit Trucks	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
Total Entering Leg	1	5	0	0	6	0	0	0	0	0	0	10	1	0	11	0	0	0	0	0	17
Buses					2					0					0					2	4
Single-Unit Trucks					6					0					5					0	11
Articulated Trucks					2					0					0					0	2
Total Exiting Leg					10					0					5					2	17

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
Total	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
Approach %	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	66.7	33.3	0.0		0.0	0.0	0.0	0.0		
Total %	25.0	0.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	25.0	0.0	75.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					2					0					0					2	4

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	2
Total Volume	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
% Approach Total	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	66.7	33.3	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	1	0	0	0	1	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4
Exiting Leg					2					0					0					2	4
Total					3					0					3					2	8

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Total	0	5	0	0	5	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	8
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	4
Grand Total	0	5	0	0	5	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	12
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	85.7	14.3	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	41.7	0.0	0.0	41.7	0.0	0.0	0.0	0.0	0.0	0.0	50.0	8.3	0.0	58.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					6					0					5					1	12

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:15 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:15 AM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
7:30 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Total Volume	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.417	0.000	0.000	0.417	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.688
Entering Leg	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	11
Exiting Leg					6					0					5					0	11
Total					11					0					11					0	22

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	0.0	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					2					0					1					0	3

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
7:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total Volume	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.750
Entering Leg	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Exiting Leg					2					0					1					0	3
Total					3					0					3					0	6

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	4
Total	0	2	0	0	2	0	4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	6
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	1	1	0	0	0	2	0	0	0	0	0	1	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	5
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	2	1	0	0	0	3	0	0	0	0	0	2	2	1	1	0	0	0	0	2	0	0	0	0	0	0	0	7
Grand Total	0	4	1	0	2	0	7	0	0	0	0	0	2	2	1	1	0	0	0	1	3	0	1	0	0	0	0	1	13
Approach %	0.0	57.1	14.3	0.0	28.6	0.0		0.0	0.0	0.0	0.0	0.0	100.0		33.3	33.3	0.0	0.0	0.0	33.3		0.0	100.0	0.0	0.0	0.0	0.0		
Total %	0.0	30.8	7.7	0.0	15.4	0.0	53.8	0.0	0.0	0.0	0.0	0.0	15.4	15.4	7.7	7.7	0.0	0.0	0.0	7.7	23.1	0.0	7.7	0.0	0.0	0.0	0.0	7.7	
Exiting Leg Total							3							5							5							0	13

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:45 AM	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:45 AM	0	1	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	1	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	1	1	0	0	0	2	0	0	0	0	0	1	1	1	1	0	0	0	0	2	0	0	0	0	0	0	0	5
Total Volume	0	3	1	0	1	0	5	0	0	0	0	0	1	1	1	1	0	0	0	1	3	0	1	0	0	0	0	1	10
% Approach Total	0.0	60.0	20.0	0.0	20.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		33.3	33.3	0.0	0.0	0.0	33.3		0.0	100.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.750	0.250	0.000	0.250	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.250	0.000	0.000	0.000	0.250	0.375	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.500
Entering Leg	0	3	1	0	1	0	5	0	0	0	0	0	1	1	1	1	0	0	0	1	3	0	1	0	0	0	0	1	10
Exiting Leg							2							4							4							0	10
Total							7							5							7							1	20

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
7:30 AM	0	0	0	0	5	0	5	0	0	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
7:45 AM	0	0	0	0	1	0	1	0	0	0	0	2	0	2	0	0	0	0	0	4	4	0	0	0	0	0	0	0	7
Total	0	0	0	0	6	3	9	0	0	0	0	12	0	12	0	0	0	0	1	4	5	0	0	0	0	0	0	0	26
8:00 AM	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
8:30 AM	0	0	0	0	0	5	5	0	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	1	0	1	10
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	12	12	0	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0	1	0	1	20
Grand Total	0	0	0	0	6	15	21	0	0	0	0	12	7	19	0	0	0	0	1	4	5	0	0	0	0	1	0	1	46
Approach %	0	0	0	0	28.6	71.4		0	0	0	0	63.2	36.8		0	0	0	0	20	80		0	0	0	0	100	0		
Total %	0	0	0	0	13	32.6	45.7	0	0	0	0	26.1	15.2	41.3	0	0	0	0	2.17	8.7	10.9	0	0	0	0	2.17	0	2.17	
Exiting Leg Total							21							19							5							1	46

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:30 AM	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
7:30 AM	0	0	0	0	5	0	5	0	0	0	0	9	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
7:45 AM	0	0	0	0	1	0	1	0	0	0	0	2	0	2	0	0	0	0	0	4	4	0	0	0	0	0	0	0	7
8:00 AM	0	0	0	0	0	1	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
8:15 AM	0	0	0	0	0	6	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Total Volume	0	0	0	0	6	7	13	0	0	0	0	11	1	12	0	0	0	0	0	4	4	0	0	0	0	0	0	0	29
% Approach Total	0.0	0.0	0.0	0.0	46.2	53.8		0.0	0.0	0.0	0.0	91.7	8.3		0.0	0.0	0.0	0.0	0.0	100.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.300	0.292	0.542	0.000	0.000	0.000	0.000	0.306	0.250	0.333	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.518
Entering Leg	0	0	0	0	6	7	13	0	0	0	0	11	1	12	0	0	0	0	0	4	4	0	0	0	0	0	0	0	29
Exiting Leg							13							12							4							0	29
Total							26							24							8							0	58

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	3	43	10	0	56	0	0	0	0	0	2	57	1	0	60	0	0	0	0	0	116
4:15 PM	3	34	7	0	44	0	0	0	0	0	0	43	2	0	45	0	0	0	0	0	89
4:30 PM	1	30	5	0	36	0	0	0	0	0	0	52	0	0	52	0	0	0	0	0	88
4:45 PM	0	36	5	0	41	0	0	0	0	0	1	59	0	0	60	0	0	0	0	0	101
Total	7	143	27	0	177	0	0	0	0	0	3	211	3	0	217	0	0	0	0	0	394
5:00 PM	4	31	5	0	40	0	0	0	0	0	1	71	0	0	72	0	0	0	0	0	112
5:15 PM	2	38	6	0	46	0	0	0	0	0	4	50	1	0	55	0	0	0	0	0	101
5:30 PM	8	42	6	0	56	0	0	0	0	0	2	37	1	0	40	1	0	0	0	1	97
5:45 PM	4	44	3	0	51	0	0	0	0	0	0	42	0	0	42	0	0	0	0	0	93
Total	18	155	20	0	193	0	0	0	0	0	7	200	2	0	209	1	0	0	0	1	403
Grand Total	25	298	47	0	370	0	0	0	0	0	10	411	5	0	426	1	0	0	0	1	797
Approach %	6.8	80.5	12.7	0.0		0.0	0.0	0.0	0.0		2.3	96.5	1.2	0.0		100.0	0.0	0.0	0.0		
Total %	3.1	37.4	5.9	0.0	46.4	0.0	0.0	0.0	0.0	0.0	1.3	51.6	0.6	0.0	53.5	0.1	0.0	0.0	0.0	0.1	
Exiting Leg Total					411					57					299					30	797
Cars	23	290	47	0	360	0	0	0	0	0	9	403	4	0	416	1	0	0	0	1	777
% Cars	92.0	97.3	100.0	0.0	97.3	0.0	0.0	0.0	0.0	0.0	90.0	98.1	80.0	0.0	97.7	100.0	0.0	0.0	0.0	100.0	97.5
Exiting Leg Total					403					56					291					27	777
Heavy Vehicles	2	8	0	0	10	0	0	0	0	0	1	8	1	0	10	0	0	0	0	0	20
% Heavy Vehicles	8.0	2.7	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	10.0	1.9	20.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	2.5
Exiting Leg Total					8					1					8					3	20

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:45 PM	0	36	5	0	41	0	0	0	0	0	1	59	0	0	60	0	0	0	0	0	101
5:00 PM	4	31	5	0	40	0	0	0	0	0	1	71	0	0	72	0	0	0	0	0	112
5:15 PM	2	38	6	0	46	0	0	0	0	0	4	50	1	0	55	0	0	0	0	0	101
5:30 PM	8	42	6	0	56	0	0	0	0	0	2	37	1	0	40	1	0	0	0	1	97
Total Volume	14	147	22	0	183	0	0	0	0	0	8	217	2	0	227	1	0	0	0	1	411
% Approach Total	7.7	80.3	12.0	0.0		0.0	0.0	0.0	0.0		3.5	95.6	0.9	0.0		100.0	0.0	0.0	0.0		
PHF	0.438	0.875	0.917	0.000	0.817	0.000	0.000	0.000	0.000	0.000	0.500	0.764	0.500	0.000	0.788	0.250	0.000	0.000	0.000	0.250	0.917
Cars	14	142	22	0	178	0	0	0	0	0	7	214	2	0	223	1	0	0	0	1	402
Cars %	100.0	96.6	100.0	0.0	97.3	0.0	0.0	0.0	0.0	0.0	87.5	98.6	100.0	0.0	98.2	100.0	0.0	0.0	0.0	100.0	97.8
Heavy Vehicles	0	5	0	0	5	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	9
Heavy Vehicles %	0.0	3.4	0.0	0.0	2.7	0.0	0.0	0.0	0.0	0.0	12.5	1.4	0.0	0.0	1.8	0.0	0.0	0.0	0.0	0.0	2.2
Cars Enter Leg	14	142	22	0	178	0	0	0	0	0	7	214	2	0	223	1	0	0	0	1	402
Heavy Enter Leg	0	5	0	0	5	0	0	0	0	0	1	3	0	0	4	0	0	0	0	0	9
Total Entering Leg	14	147	22	0	183	0	0	0	0	0	8	217	2	0	227	1	0	0	0	1	411
Cars Exiting Leg					214					29					143					16	402
Heavy Exiting Leg					3					1					5					0	9
Total Exiting Leg					217					30					148					16	411

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	3	43	10	0	56	0	0	0	0	0	2	55	1	0	58	0	0	0	0	0	114
4:15 PM	3	31	7	0	41	0	0	0	0	0	0	42	1	0	43	0	0	0	0	0	84
4:30 PM	0	30	5	0	35	0	0	0	0	0	0	51	0	0	51	0	0	0	0	0	86
4:45 PM	0	35	5	0	40	0	0	0	0	0	1	57	0	0	58	0	0	0	0	0	98
Total	6	139	27	0	172	0	0	0	0	0	3	205	2	0	210	0	0	0	0	0	382
5:00 PM	4	28	5	0	37	0	0	0	0	0	1	71	0	0	72	0	0	0	0	0	109
5:15 PM	2	38	6	0	46	0	0	0	0	0	3	49	1	0	53	0	0	0	0	0	99
5:30 PM	8	41	6	0	55	0	0	0	0	0	2	37	1	0	40	1	0	0	0	1	96
5:45 PM	3	44	3	0	50	0	0	0	0	0	0	41	0	0	41	0	0	0	0	0	91
Total	17	151	20	0	188	0	0	0	0	0	6	198	2	0	206	1	0	0	0	1	395
Grand Total	23	290	47	0	360	0	0	0	0	0	9	403	4	0	416	1	0	0	0	1	777
Approach %	6.4	80.6	13.1	0.0		0.0	0.0	0.0	0.0		2.2	96.9	1.0	0.0		100.0	0.0	0.0	0.0		
Total %	3.0	37.3	6.0	0.0	46.3	0.0	0.0	0.0	0.0	0.0	1.2	51.9	0.5	0.0	53.5	0.1	0.0	0.0	0.0	0.1	
Exiting Leg Total					403					56					291					27	777

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:45 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:45 PM	0	35	5	0	40	0	0	0	0	0	1	57	0	0	58	0	0	0	0	0	98
5:00 PM	4	28	5	0	37	0	0	0	0	0	1	71	0	0	72	0	0	0	0	0	109
5:15 PM	2	38	6	0	46	0	0	0	0	0	3	49	1	0	53	0	0	0	0	0	99
5:30 PM	8	41	6	0	55	0	0	0	0	0	2	37	1	0	40	1	0	0	0	1	96
Total Volume	14	142	22	0	178	0	0	0	0	0	7	214	2	0	223	1	0	0	0	1	402
% Approach Total	7.9	79.8	12.4	0.0		0.0	0.0	0.0	0.0		3.1	96.0	0.9	0.0		100.0	0.0	0.0	0.0		
PHF	0.438	0.866	0.917	0.000	0.809	0.000	0.000	0.000	0.000	0.000	0.583	0.754	0.500	0.000	0.774	0.250	0.000	0.000	0.000	0.250	0.922
Entering Leg	14	142	22	0	178	0	0	0	0	0	7	214	2	0	223	1	0	0	0	1	402
Exiting Leg					214					29					143					16	402
Total					392					29					366					17	804

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	5
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
Total	1	4	0	0	5	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	12
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	1	4	0	0	5	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	8
Grand Total	2	8	0	0	10	0	0	0	0	0	1	8	1	0	10	0	0	0	0	0	20
Approach %	20.0	80.0	0.0	0.0		0.0	0.0	0.0	0.0		10.0	80.0	10.0	0.0		0.0	0.0	0.0	0.0		
Total %	10.0	40.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	5.0	40.0	5.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					8					1					8					3	20
Buses	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
% Buses	0.0	12.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	10.0
Exiting Leg Total					1					0					1					0	2
Single-Unit Trucks	2	4	0	0	6	0	0	0	0	0	1	6	1	0	8	0	0	0	0	0	14
% Single-Unit	100.0	50.0	0.0	0.0	60.0	0.0	0.0	0.0	0.0	0.0	100.0	75.0	100.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	70.0
Exiting Leg Total					6					1					4					3	14
Articulated Trucks	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
% Articulated	0.0	37.5	0.0	0.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	0.0	0.0	10.0	0.0	0.0	0.0	0.0	0.0	20.0
Exiting Leg Total					1					0					3					0	4

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	5
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	3
5:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Total Volume	1	7	0	0	8	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	13
% Approach Total	12.5	87.5	0.0	0.0		0.0	0.0	0.0	0.0		0.0	80.0	20.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.583	0.000	0.000	0.667	0.000	0.000	0.000	0.000	0.000	0.000	0.500	0.250	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.650
Buses	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Buses %	0.0	14.3	0.0	0.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7
Single-Unit Trucks	1	3	0	0	4	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	8
Single-Unit %	100.0	42.9	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	100.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	61.5
Articulated Trucks	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Articulated %	0.0	42.9	0.0	0.0	37.5	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	30.8
Buses	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Single-Unit Trucks	1	3	0	0	4	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	8
Articulated Trucks	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Total Entering Leg	1	7	0	0	8	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	13
Buses					0					0					1					0	1
Single-Unit Trucks					3					0					3					2	8
Articulated Trucks					1					0					3					0	4
Total Exiting Leg					4					0					7					2	13

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Buses

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	0.0	0.0	50.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					1					0	2

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Exiting Leg					1					0					0					0	1
Total					1					0					1					0	2

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	1	2	0	0	3	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	8
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2	0	0	0	0	0	2
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	1	2	0	0	3	0	0	0	0	0	1	2	0	0	3	0	0	0	0	0	6
Grand Total	2	4	0	0	6	0	0	0	0	0	1	6	1	0	8	0	0	0	0	0	14
Approach %	33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		12.5	75.0	12.5	0.0		0.0	0.0	0.0	0.0		
Total %	14.3	28.6	0.0	0.0	42.9	0.0	0.0	0.0	0.0	0.0	7.1	42.9	7.1	0.0	57.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					6					1					4					3	14

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
4:15 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	3
4:30 PM	1	0	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
4:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total Volume	1	2	0	0	3	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	8
% Approach Total	33.3	66.7	0.0	0.0		0.0	0.0	0.0	0.0		0.0	80.0	20.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.250	0.500	0.000	0.000	0.750	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.250	0.000	0.625	0.000	0.000	0.000	0.000	0.000	0.667
Entering Leg	1	2	0	0	3	0	0	0	0	0	0	4	1	0	5	0	0	0	0	0	8
Exiting Leg					4					0					2					2	8
Total					7					0					7					2	16

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Grand Total	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	75.0	0.0	0.0	75.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	0.0	0.0	25.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					3					0	4

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North					Page Road from East					Lowell Avenue from South					Page Road from West					
	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Right	Thru	Left	U-Turn	Total	Total
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.375	0.000	0.000	0.375	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	4
Exiting Leg					1					0					3					0	4
Total					4					0					4					0	8

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Bicycles (on Roadway and Crosswalks)

	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2
4:45 PM	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Total	1	1	1	0	0	0	3	1	0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	1	1	7
5:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	2
Total	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	3	0	0	0	0	3	0	0	0	0	0	0	0	5
Grand Total	1	1	2	0	0	0	4	2	0	0	0	0	0	2	0	3	2	0	0	0	5	0	0	0	0	0	1	1	12
Approach %	25.0	25.0	50.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0		0.0	60.0	40.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		
Total %	8.3	8.3	16.7	0.0	0.0	0.0	33.3	16.7	0.0	0.0	0.0	0.0	0.0	16.7	0.0	25.0	16.7	0.0	0.0	0.0	41.7	0.0	0.0	0.0	0.0	0.0	8.3	8.3	
Exiting Leg Total							5							2							1							4	12

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:15 PM	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:15 PM	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0	0	2
4:45 PM	0	0	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
5:00 PM	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	1	1	2	0	0	0	4	1	0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	1	1	8
% Approach Total	25.0	25.0	50.0	0.0	0.0	0.0		100.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	100.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	100.0		
PHF	0.250	0.250	0.500	0.000	0.000	0.000	0.500	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.250	0.250	0.667
Entering Leg	1	1	2	0	0	0	4	1	0	0	0	0	0	1	0	0	2	0	0	0	2	0	0	0	0	0	1	1	8
Exiting Leg							1							2							1							4	8
Total							5							3							3							5	16

PDI File #: **228976 H**
Location: **N: Lowell Avenue S: Lowell Avenue**
Location: **E: Page Road W: Page Road**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	11	0	11	0	0	0	0	1	2	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	15
4:15 PM	0	0	0	0	6	1	7	0	0	0	0	0	1	1	0	0	0	0	5	1	6	0	0	0	0	0	0	0	14
4:30 PM	0	0	0	0	0	5	5	0	0	0	0	0	6	6	0	0	0	0	0	2	2	0	0	0	0	0	2	2	15
4:45 PM	0	0	0	0	10	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14
Total	0	0	0	0	27	9	36	0	0	0	0	1	9	10	0	0	0	0	5	4	9	0	0	0	0	0	3	3	58
5:00 PM	0	0	0	0	1	4	5	0	0	0	0	1	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	8
5:15 PM	0	0	0	0	2	3	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
5:30 PM	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3
5:45 PM	0	0	0	0	3	1	4	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	6
Total	0	0	0	0	7	8	15	0	0	0	0	1	2	3	0	0	0	0	0	1	1	0	0	0	0	0	3	3	22
Grand Total	0	0	0	0	34	17	51	0	0	0	0	2	11	13	0	0	0	0	5	5	10	0	0	0	0	0	6	6	80
Approach %	0	0	0	0	66.7	33.3		0	0	0	0	15.4	84.6		0	0	0	0	50	50		0	0	0	0	0	100		
Total %	0	0	0	0	42.5	21.3	63.8	0	0	0	0	2.5	13.8	16.3	0	0	0	0	6.25	6.25	12.5	0	0	0	0	0	7.5	7.5	
Exiting Leg Total							51							13							10							6	80

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Lowell Avenue from North							Page Road from East							Lowell Avenue from South							Page Road from West							
	Right	Thru	Left	U-Turn	CW-EB	CW-WB	Total	Right	Thru	Left	U-Turn	CW-SB	CW-NB	Total	Right	Thru	Left	U-Turn	CW-WB	CW-EB	Total	Right	Thru	Left	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	11	0	11	0	0	0	0	1	2	3	0	0	0	0	0	1	1	0	0	0	0	0	0	0	15
4:15 PM	0	0	0	0	6	1	7	0	0	0	0	0	1	1	0	0	0	0	5	1	6	0	0	0	0	0	0	0	14
4:30 PM	0	0	0	0	0	5	5	0	0	0	0	0	6	6	0	0	0	0	0	2	2	0	0	0	0	0	2	2	15
4:45 PM	0	0	0	0	10	3	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	14
Total Volume	0	0	0	0	27	9	36	0	0	0	0	1	9	10	0	0	0	0	5	4	9	0	0	0	0	0	3	3	58
% Approach Total	0.0	0.0	0.0	0.0	75.0	25.0		0.0	0.0	0.0	0.0	10.0	90.0		0.0	0.0	0.0	0.0	55.6	44.4		0.0	0.0	0.0	0.0	0.0	100.0		
PHF	0.000	0.000	0.000	0.000	0.614	0.450	0.692	0.000	0.000	0.000	0.000	0.250	0.375	0.417	0.000	0.000	0.000	0.000	0.250	0.500	0.375	0.000	0.000	0.000	0.000	0.000	0.375	0.375	0.967
Entering Leg	0	0	0	0	27	9	36	0	0	0	0	1	9	10	0	0	0	0	5	4	9	0	0	0	0	0	3	3	58
Exiting Leg							36							10							9							3	58
Total							72							20							18							6	116

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	1	0	1	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	8
7:15 AM	0	2	1	0	3	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	5
7:30 AM	0	5	1	0	6	3	0	0	0	3	0	2	0	0	2	0	0	0	0	0	11
7:45 AM	0	2	2	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
Total	0	9	5	0	14	5	0	5	0	10	0	7	0	0	7	0	0	0	0	0	31
8:00 AM	0	1	1	0	2	6	0	1	1	8	2	6	0	0	8	0	0	0	0	0	18
8:15 AM	0	4	1	0	5	4	0	2	0	6	2	7	0	0	9	0	0	0	0	0	20
8:30 AM	0	3	0	0	3	2	0	2	0	4	0	8	0	0	8	0	0	0	0	0	15
8:45 AM	0	11	1	0	12	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	28
Total	0	19	3	0	22	13	0	6	1	20	6	33	0	0	39	0	0	0	0	0	81
Grand Total	0	28	8	0	36	18	0	11	1	30	6	40	0	0	46	0	0	0	0	0	112
Approach %	0.0	77.8	22.2	0.0		60.0	0.0	36.7	3.3		13.0	87.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	25.0	7.1	0.0	32.1	16.1	0.0	9.8	0.9	26.8	5.4	35.7	0.0	0.0	41.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					58					15					39					0	112
Cars	0	24	8	0	32	18	0	11	1	30	6	39	0	0	45	0	0	0	0	0	107
% Cars	0.0	85.7	100.0	0.0	88.9	100.0	0.0	100.0	100.0	100.0	100.0	97.5	0.0	0.0	97.8	0.0	0.0	0.0	0.0	0.0	95.5
Exiting Leg Total					57					15					35					0	107
Heavy Vehicles	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
% Heavy Vehicles	0.0	14.3	0.0	0.0	11.1	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0	4.5
Exiting Leg Total					1					0					4					0	5

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
8:00 AM	0	1	1	0	2	6	0	1	1	8	2	6	0	0	8	0	0	0	0	0	18
8:15 AM	0	4	1	0	5	4	0	2	0	6	2	7	0	0	9	0	0	0	0	0	20
8:30 AM	0	3	0	0	3	2	0	2	0	4	0	8	0	0	8	0	0	0	0	0	15
8:45 AM	0	11	1	0	12	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	28
Total Volume	0	19	3	0	22	13	0	6	1	20	6	33	0	0	39	0	0	0	0	0	81
% Approach Total	0.0	86.4	13.6	0.0		65.0	0.0	30.0	5.0		15.4	84.6	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.432	0.750	0.000	0.458	0.542	0.000	0.750	0.250	0.625	0.750	0.688	0.000	0.000	0.696	0.000	0.000	0.000	0.000	0.000	0.723
Cars	0	19	3	0	22	13	0	6	1	20	6	32	0	0	38	0	0	0	0	0	80
Cars %	0.0	100.0	100.0	0.0	100.0	100.0	0.0	100.0	100.0	100.0	100.0	97.0	0.0	0.0	97.4	0.0	0.0	0.0	0.0	0.0	98.8
Heavy Vehicles	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Heavy Vehicles %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	2.6	0.0	0.0	0.0	0.0	0.0	1.2
Cars Enter Leg	0	19	3	0	22	13	0	6	1	20	6	32	0	0	38	0	0	0	0	0	80
Heavy Enter Leg	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Total Entering Leg	0	19	3	0	22	13	0	6	1	20	6	33	0	0	39	0	0	0	0	0	81
Cars Exiting Leg					45					10					25					0	80
Heavy Exiting Leg					1					0					0					0	1
Total Exiting Leg					46					10					25					0	81

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	1	0	1	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	8
7:15 AM	0	0	1	0	1	1	0	1	0	2	0	0	0	0	0	0	0	0	0	0	3
7:30 AM	0	3	1	0	4	3	0	0	0	3	0	2	0	0	2	0	0	0	0	0	9
7:45 AM	0	2	2	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	7
Total	0	5	5	0	10	5	0	5	0	10	0	7	0	0	7	0	0	0	0	0	27
8:00 AM	0	1	1	0	2	6	0	1	1	8	2	6	0	0	8	0	0	0	0	0	18
8:15 AM	0	4	1	0	5	4	0	2	0	6	2	6	0	0	8	0	0	0	0	0	19
8:30 AM	0	3	0	0	3	2	0	2	0	4	0	8	0	0	8	0	0	0	0	0	15
8:45 AM	0	11	1	0	12	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	28
Total	0	19	3	0	22	13	0	6	1	20	6	32	0	0	38	0	0	0	0	0	80
Grand Total	0	24	8	0	32	18	0	11	1	30	6	39	0	0	45	0	0	0	0	0	107
Approach %	0.0	75.0	25.0	0.0		60.0	0.0	36.7	3.3		13.3	86.7	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	22.4	7.5	0.0	29.9	16.8	0.0	10.3	0.9	28.0	5.6	36.4	0.0	0.0	42.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					57					15					35					0	107

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
8:00 AM	0	1	1	0	2	6	0	1	1	8	2	6	0	0	8	0	0	0	0	0	18
8:15 AM	0	4	1	0	5	4	0	2	0	6	2	6	0	0	8	0	0	0	0	0	19
8:30 AM	0	3	0	0	3	2	0	2	0	4	0	8	0	0	8	0	0	0	0	0	15
8:45 AM	0	11	1	0	12	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	28
Total Volume	0	19	3	0	22	13	0	6	1	20	6	32	0	0	38	0	0	0	0	0	80
% Approach Total	0.0	86.4	13.6	0.0		65.0	0.0	30.0	5.0		15.8	84.2	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.432	0.750	0.000	0.458	0.542	0.000	0.750	0.250	0.625	0.750	0.667	0.000	0.000	0.679	0.000	0.000	0.000	0.000	0.000	0.714
Entering Leg	0	19	3	0	22	13	0	6	1	20	6	32	0	0	38	0	0	0	0	0	80
Exiting Leg					45					10					25					0	80
Total					67					30					63					0	160

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Grand Total	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	80.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					4					0	5
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0
Single-Unit Trucks	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
% Single-Unit	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Exiting Leg Total					1					0					4					0	5
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Single-Unit Trucks	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Single-Unit %	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Single-Unit Trucks	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Buses					0					0					0					0	0
Single-Unit Trucks					0					0					4					0	4
Articulated Trucks					0					0					0					0	0
Total Exiting Leg					0					0					4					0	4

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Buses

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg					0					0					0					0	0
Total					0					0					0					0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Single-Unit Trucks**

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Grand Total	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	80.0	0.0	0.0	80.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	0.0	0.0	20.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					4					0	5

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:30 AM	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.500
Entering Leg	0	4	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Exiting Leg					0					0					4					0	4
Total					4					0					4					0	8

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg					0					0					0					0	0
Total					0					0					0					0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Bicycles (on Roadway and Crosswalks)

	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total							0							0							0							0	0

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

7:00 AM	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg							0							0							0							0	0
Total							0							0							0							0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **7:00 AM**
End Time: **9:00 AM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Pedestrians

	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	2
Total	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	2	0	2	0	0	0	0	0	0	0	5
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	3	4	0	0	0	0	1	0	1	0	0	0	0	2	2	4	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total	0	0	0	0	0	0	0	0	0	0	0	6	6	12	0	0	0	0	1	0	1	0	0	0	0	2	2	4	17
Grand Total	0	0	0	0	0	0	0	0	0	0	0	7	8	15	0	0	0	0	3	0	3	0	0	0	0	2	2	4	22
Approach %	0	0	0	0	0	0		0	0	0	0	46.7	53.3		0	0	0	0	100	0		0	0	0	0	50	50		
Total %	0	0	0	0	0	0	0	0	0	0	0	31.8	36.4	68.2	0	0	0	0	13.6	0	13.6	0	0	0	0	9.09	9.09	18.2	
Exiting Leg Total							0							15							3							4	22

Peak Hour Analysis from 07:00 AM to 09:00 AM begins at:

8:00 AM	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	3	4	0	0	0	0	1	0	1	0	0	0	0	2	2	4	9
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	4	3	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Total Volume	0	0	0	0	0	0	0	0	0	0	0	6	6	12	0	0	0	0	1	0	1	0	0	0	0	2	2	4	17
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	50.0	50.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.375	0.500	0.429	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.250	0.250	0.250	0.472
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	6	6	12	0	0	0	0	1	0	1	0	0	0	0	2	2	4	17
Exiting Leg							0							12							1							4	17
Total							0							24							2							8	34

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars and Heavy Vehicles (Combined)

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	6	1	0	7	3	0	0	0	3	0	11	0	0	11	0	0	0	0	0	21
4:15 PM	0	2	1	0	3	3	0	0	0	3	0	8	0	0	8	0	0	0	0	0	14
4:30 PM	0	8	2	0	10	4	0	1	0	5	2	8	0	0	10	0	0	0	0	0	25
4:45 PM	0	5	2	0	7	2	0	0	0	2	1	7	0	1	9	0	0	0	0	0	18
Total	0	21	6	0	27	12	0	1	0	13	3	34	0	1	38	0	0	0	0	0	78
5:00 PM	0	5	1	0	6	1	0	1	0	2	2	11	0	0	13	0	0	0	0	0	21
5:15 PM	0	16	0	0	16	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	32
5:30 PM	0	6	1	0	7	0	0	2	0	2	0	7	0	0	7	0	0	0	0	0	16
5:45 PM	0	12	1	0	13	3	0	0	0	3	2	13	0	0	15	0	0	0	0	0	31
Total	0	39	3	0	42	5	0	4	0	9	6	43	0	0	49	0	0	0	0	0	100
Grand Total	0	60	9	0	69	17	0	5	0	22	9	77	0	1	87	0	0	0	0	0	178
Approach %	0.0	87.0	13.0	0.0		77.3	0.0	22.7	0.0		10.3	88.5	0.0	1.1		0.0	0.0	0.0	0.0		
Total %	0.0	33.7	5.1	0.0	38.8	9.6	0.0	2.8	0.0	12.4	5.1	43.3	0.0	0.6	48.9	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					94					18					66					0	178
Cars	0	58	9	0	67	17	0	5	0	22	9	76	0	1	86	0	0	0	0	0	175
% Cars	0.0	96.7	100.0	0.0	97.1	100.0	0.0	100.0	0.0	100.0	100.0	98.7	0.0	100.0	98.9	0.0	0.0	0.0	0.0	0.0	98.3
Exiting Leg Total					93					18					64					0	175
Heavy Vehicles	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
% Heavy Vehicles	0.0	3.3	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0	0.0	1.7
Exiting Leg Total					1					0					2					0	3

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
5:00 PM	0	5	1	0	6	1	0	1	0	2	2	11	0	0	13	0	0	0	0	0	21
5:15 PM	0	16	0	0	16	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	32
5:30 PM	0	6	1	0	7	0	0	2	0	2	0	7	0	0	7	0	0	0	0	0	16
5:45 PM	0	12	1	0	13	3	0	0	0	3	2	13	0	0	15	0	0	0	0	0	31
Total Volume	0	39	3	0	42	5	0	4	0	9	6	43	0	0	49	0	0	0	0	0	100
% Approach Total	0.0	92.9	7.1	0.0		55.6	0.0	44.4	0.0		12.2	87.8	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.609	0.750	0.000	0.656	0.417	0.000	0.500	0.000	0.750	0.750	0.827	0.000	0.000	0.817	0.000	0.000	0.000	0.000	0.000	0.781
Cars	0	37	3	0	40	5	0	4	0	9	6	42	0	0	48	0	0	0	0	0	97
Cars %	0.0	94.9	100.0	0.0	95.2	100.0	0.0	100.0	0.0	100.0	100.0	97.7	0.0	0.0	98.0	0.0	0.0	0.0	0.0	0.0	97.0
Heavy Vehicles	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Heavy Vehicles %	0.0	5.1	0.0	0.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	3.0
Cars Enter Leg	0	37	3	0	40	5	0	4	0	9	6	42	0	0	48	0	0	0	0	0	97
Heavy Enter Leg	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Total Entering Leg	0	39	3	0	42	5	0	4	0	9	6	43	0	0	49	0	0	0	0	0	100
Cars Exiting Leg					47					9					41					0	97
Heavy Exiting Leg					1					0					2					0	3
Total Exiting Leg					48					9					43					0	100

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Cars

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	6	1	0	7	3	0	0	0	3	0	11	0	0	11	0	0	0	0	0	21
4:15 PM	0	2	1	0	3	3	0	0	0	3	0	8	0	0	8	0	0	0	0	0	14
4:30 PM	0	8	2	0	10	4	0	1	0	5	2	8	0	0	10	0	0	0	0	0	25
4:45 PM	0	5	2	0	7	2	0	0	0	2	1	7	0	1	9	0	0	0	0	0	18
Total	0	21	6	0	27	12	0	1	0	13	3	34	0	1	38	0	0	0	0	0	78
5:00 PM	0	5	1	0	6	1	0	1	0	2	2	11	0	0	13	0	0	0	0	0	21
5:15 PM	0	16	0	0	16	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	32
5:30 PM	0	5	1	0	6	0	0	2	0	2	0	7	0	0	7	0	0	0	0	0	15
5:45 PM	0	11	1	0	12	3	0	0	0	3	2	12	0	0	14	0	0	0	0	0	29
Total	0	37	3	0	40	5	0	4	0	9	6	42	0	0	48	0	0	0	0	0	97
Grand Total	0	58	9	0	67	17	0	5	0	22	9	76	0	1	86	0	0	0	0	0	175
Approach %	0.0	86.6	13.4	0.0		77.3	0.0	22.7	0.0		10.5	88.4	0.0	1.2		0.0	0.0	0.0	0.0		
Total %	0.0	33.1	5.1	0.0	38.3	9.7	0.0	2.9	0.0	12.6	5.1	43.4	0.0	0.6	49.1	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					93					18					64					0	175

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
5:00 PM	0	5	1	0	6	1	0	1	0	2	2	11	0	0	13	0	0	0	0	0	21
5:15 PM	0	16	0	0	16	1	0	1	0	2	2	12	0	0	14	0	0	0	0	0	32
5:30 PM	0	5	1	0	6	0	0	2	0	2	0	7	0	0	7	0	0	0	0	0	15
5:45 PM	0	11	1	0	12	3	0	0	0	3	2	12	0	0	14	0	0	0	0	0	29
Total Volume	0	37	3	0	40	5	0	4	0	9	6	42	0	0	48	0	0	0	0	0	97
% Approach Total	0.0	92.5	7.5	0.0		55.6	0.0	44.4	0.0		12.5	87.5	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.578	0.750	0.000	0.625	0.417	0.000	0.500	0.000	0.750	0.750	0.875	0.000	0.000	0.857	0.000	0.000	0.000	0.000	0.000	0.758
Entering Leg	0	37	3	0	40	5	0	4	0	9	6	42	0	0	48	0	0	0	0	0	97
Exiting Leg					47					9					41					0	97
Total					87					18					89					0	194

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Heavy Vehicles-Combined (Buses, Single-Unit Trucks, Articulated Trucks)**

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Grand Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					2					0	3
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Buses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
% Single-Unit	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Exiting Leg Total					1					0					2					0	3
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Articulated	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total Volume	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.375
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buses %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Single-Unit %	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	100.0
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Articulated %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Buses	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Single-Unit Trucks	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Articulated Trucks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Entering Leg	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Buses					0					0					0					0	0
Single-Unit Trucks					1					0					2					0	3
Articulated Trucks					0					0					0					0	0
Total Exiting Leg					1					0					2					0	3

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class: **Buses**

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg					0					0					0					0	0
Total					0					0					0					0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Single-Unit Trucks

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Grand Total	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Approach %	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	66.7	0.0	0.0	66.7	0.0	0.0	0.0	0.0	0.0	0.0	33.3	0.0	0.0	33.3	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					1					0					2					0	3

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
Total Volume	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
% Approach Total	0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	100.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.500	0.000	0.000	0.500	0.000	0.000	0.000	0.000	0.000	0.000	0.250	0.000	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.375
Entering Leg	0	2	0	0	2	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	3
Exiting Leg					1					0					2					0	3
Total					3					0					3					0	6

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Articulated Trucks

	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total					0					0					0					0	0

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Site Driveway					Parking Garage					Washington Terrace					Driveway					
	from East					from Southeast					from South					from West					
	Thru	Left	Hard Left	U-Turn	Total	Hard Righ	Bear Left	Hard Left	U-Turn	Total	Hard Righ	Right	Left	U-Turn	Total	Right	Bear Righ	Thru	U-Turn	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg					0					0					0					0	0
Total					0					0					0					0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

Class:

Bicycles (on Roadway and Crosswalks)

	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
Total %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Exiting Leg Total							0							0							0							0	0

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

4:00 PM	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Exiting Leg							0							0							0							0	0
Total							0							0							0							0	0

PDI File #: **228976 I**
Location: **S: Washington Terrace**
Location: **E: Site Driveway W: Driveway SE: Parking Garage**
City, State: **Newton, MA**
Client: **VHB/R. Hart**
Site Code: **TBD**
Count Date: **Thursday, November 3, 2022**
Start Time: **4:00 PM**
End Time: **6:00 PM**
Class:

PRECISION DATA INDUSTRIES, LLC
157 Washington Street, Suite 2
Hudson, MA 01749
Office: 508-875-0100 Fax: 508-875-0118

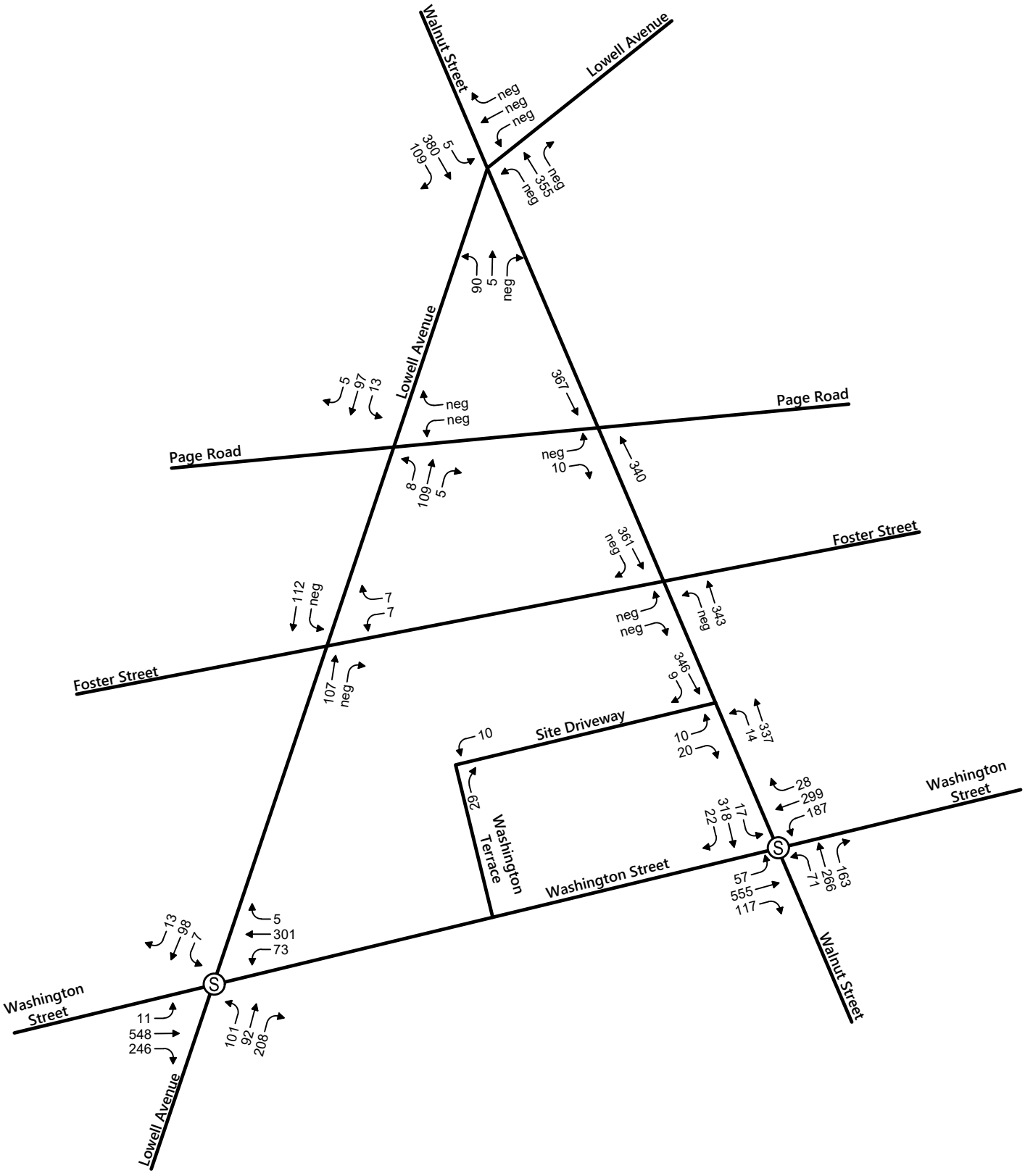
Pedestrians

	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	3
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total	0	0	0	0	0	0	0	0	0	0	0	4	6	10	0	0	0	0	1	0	1	0	0	0	0	0	0	0	11
Grand Total	0	0	0	0	0	0	0	0	0	0	0	5	7	12	0	0	0	0	1	1	2	0	0	0	0	0	0	0	14
Approach %	0	0	0	0	0	0		0	0	0	0	41.7	58.3		0	0	0	0	50	50		0	0	0	0	0	0		
Total %	0	0	0	0	0	0	0	0	0	0	0	35.7	50	85.7	0	0	0	0	7.14	7.14	14.3	0	0	0	0	0	0	0	
Exiting Leg Total							0							12							2							0	14

Peak Hour Analysis from 04:00 PM to 06:00 PM begins at:

5:00 PM	Site Driveway							Parking Garage							Washington Terrace							Driveway							
	from East							from Southeast							from South							from West							
	Thru	Left	Hard Left	U-Turn	CW-SB	CW-NB	Total	Hard Right	Bear Left	Hard Left	U-Turn	CW-SWB	CW-NEB	Total	Hard Right	Right	Left	U-Turn	CW-WB	CW-EB	Total	Right	Bear Right	Thru	U-Turn	CW-NB	CW-SB	Total	Total
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	1	0	1	0	0	0	0	0	0	0	4
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	0	0	0	0	0	0	0	4	6	10	0	0	0	0	1	0	1	0	0	0	0	0	0	0	11
% Approach Total	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	40.0	60.0		0.0	0.0	0.0	0.0	100.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		
PHF	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.000	0.750	0.833	0.000	0.000	0.000	0.000	0.250	0.000	0.250	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.688
Entering Leg	0	0	0	0	0	0	0	0	0	0	0	4	6	10	0	0	0	0	1	0	1	0	0	0	0	0	0	0	11
Exiting Leg							0							10							1							0	11
Total							0							20							2							0	22

neg = Negligible

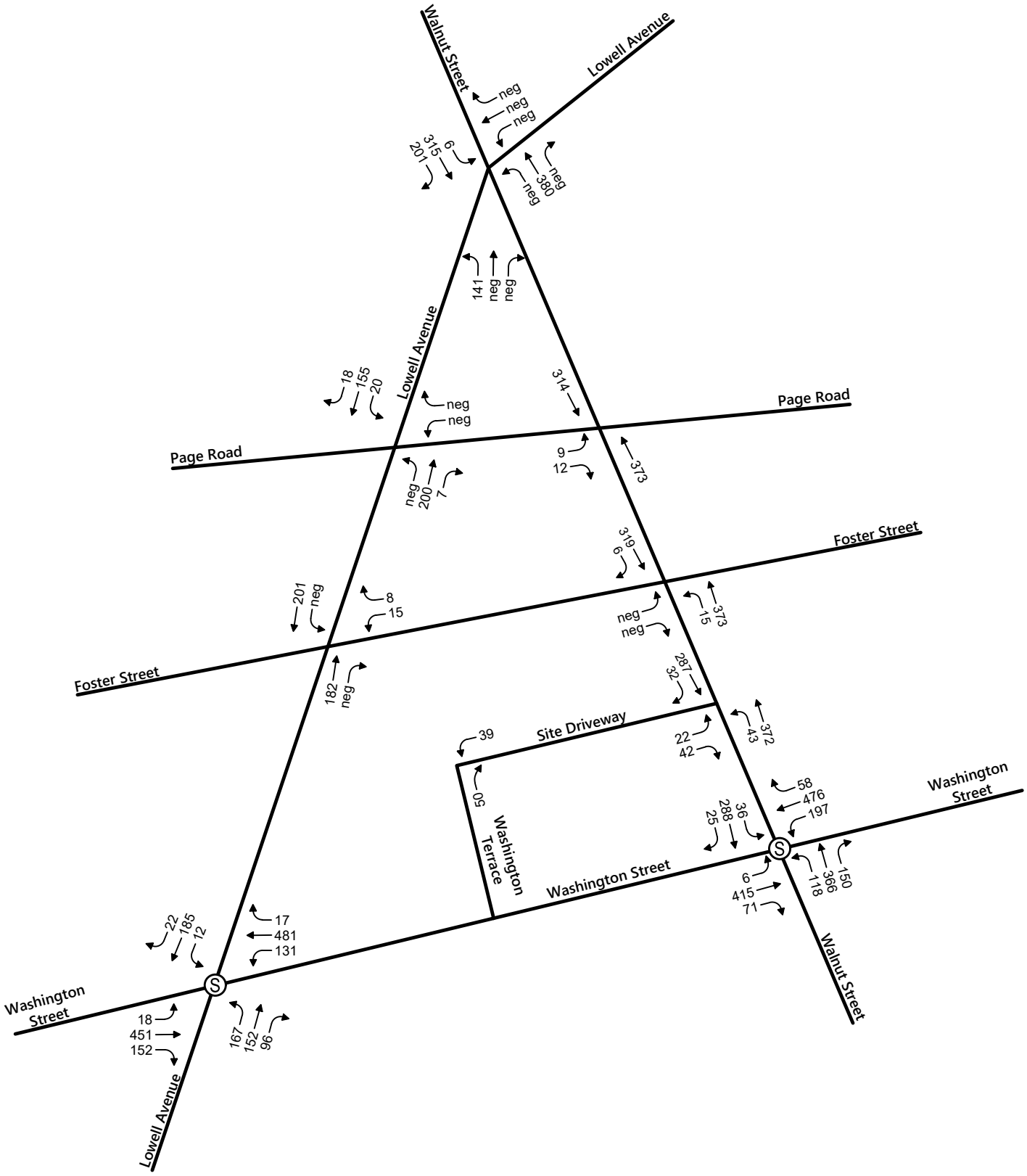


Not to Scale

Figure 1

2022 Existing Conditions
Weekday Morning Peak Hour Traffic Volumes
Trio Post Occupancy
Newton, Massachusetts

neg = Negligible



Not to Scale

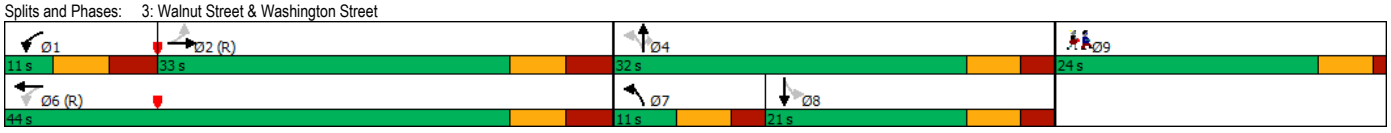
Figure 2

2022 Existing Conditions
Weekday Evening Peak Hour Traffic Volumes
Trio Post Occupancy
Newton, Massachusetts

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations													
Traffic Volume (vph)	55	555	115	185	300	30	70	265	165	15	320	20	
Future Volume (vph)	55	555	115	185	300	30	70	265	165	15	320	20	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Satd. Flow (prot)	0	3353	0	0	3409	0	1703	1810	1509	1612	1773	0	
Flt Permitted		0.797			0.530		0.172			0.578			
Satd. Flow (perm)	0	2683	0	0	1840	0	308	1810	1509	981	1773	0	
Right Turn on Red			Yes			Yes			Yes			Yes	
Satd. Flow (RTOR)		21			7				185		3		
Link Speed (mph)		30			30			30			30		
Link Distance (ft)		377			862			300			282		
Travel Time (s)		8.6			19.6			6.8			6.4		
Peak Hour Factor	0.86	0.86	0.86	0.83	0.83	0.83	0.89	0.89	0.89	0.90	0.90	0.90	
Heavy Vehicles (%)	7%	5%	2%	3%	3%	4%	6%	5%	7%	12%	6%	9%	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	843	0	0	620	0	79	298	185	17	378	0	
Turn Type	Perm	NA		pm+pt	NA		pm+pt	NA	Perm	Perm	NA		
Protected Phases		2		1	6		7	4			8		9
Permitted Phases	2			6			4		4	8			
Detector Phase	2	2		1	6		7	4	4	8	8		
Switch Phase													
Minimum Initial (s)	10.0	10.0		6.0	10.0		6.0	6.0	6.0	10.0	10.0		7.0
Minimum Split (s)	18.0	18.0		14.0	18.0		13.0	15.0	15.0	17.0	17.0		24.0
Total Split (s)	33.0	33.0		11.0	44.0		11.0	32.0	32.0	21.0	21.0		24.0
Total Split (%)	33.0%	33.0%		11.0%	44.0%		11.0%	32.0%	32.0%	21.0%	21.0%		24%
Yellow Time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0
All-Red Time (s)	3.5	3.5		3.5	3.5		2.5	2.5	2.5	2.5	2.5		1.0
Lost Time Adjust (s)		0.0			0.0		0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)		7.5			7.5		6.5	6.5	6.5	6.5	6.5		
Lead/Lag	Lag	Lag		Lead			Lead			Lag	Lag		
Lead-Lag Optimize?													
Recall Mode	C-Min	C-Min		None	C-Max		None	None	None	None	None		None
Act Effct Green (s)		41.3			41.3		25.5	25.5	25.5	16.7	16.7		
Actuated g/C Ratio		0.41			0.41		0.26	0.26	0.26	0.17	0.17		
v/c Ratio		0.75			1.25dl		0.56	0.65	0.35	0.10	1.27		
Control Delay		24.5			38.2		46.0	40.8	6.6	39.2	181.5		
Queue Delay		0.0			0.0		0.0	0.0	0.0	0.0	0.0		
Total Delay		24.5			38.2		46.0	40.8	6.6	39.2	181.5		
LOS		C			D		D	D	A	D	F		
Approach Delay		24.5			38.2			30.3			175.4		
Approach LOS		C			D			C			F		
Queue Length 50th (ft)		143			194		39	170	0	10	~333		
Queue Length 95th (ft)		237			#266		#83	258	50	30	#516		
Internal Link Dist (ft)		297			782			220			202		
Turn Bay Length (ft)													
Base Capacity (vph)		1120			764		141	461	522	164	298		
Starvation Cap Reductn		0			0		0	0	0	0	0		
Spillback Cap Reductn		0			0		0	0	0	0	0		
Storage Cap Reductn		0			0		0	0	0	0	0		
Reduced v/c Ratio		0.75			0.81		0.56	0.65	0.35	0.10	1.27		

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green, Master Intersection			
Natural Cycle: 130			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.27			
Intersection Signal Delay: 54.0		Intersection LOS: D	
Intersection Capacity Utilization 81.6%		ICU Level of Service D	
Analysis Period (min) 15			
~ Volume exceeds capacity, queue is theoretically infinite.			
Queue shown is maximum after two cycles.			
# 95th percentile volume exceeds capacity, queue may be longer.			
Queue shown is maximum after two cycles.			
dl Defacto Left Lane. Recode with 1 though lane as a left lane.			

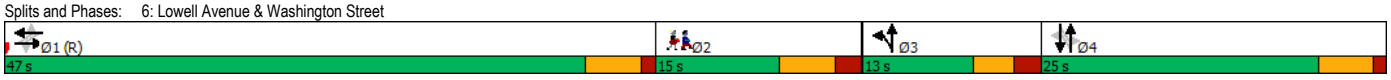
Splits and Phases: 3: Walnut Street & Washington Street

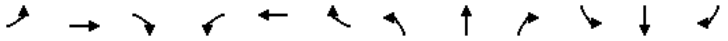


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø2
Lane Configurations													
Traffic Volume (vph)	10	550	245	75	300	5	100	90	210	5	100	15	
Future Volume (vph)	10	550	245	75	300	5	100	90	210	5	100	15	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Satd. Flow (prot)	0	3329	0	0	3451	0	1752	1661	0	0	1765	0	
Flt Permitted		0.942			0.575		0.502				0.975		
Satd. Flow (perm)	0	3139	0	0	2004	0	926	1661	0	0	1724	0	
Right Turn on Red			Yes			Yes			Yes			Yes	
Satd. Flow (RTOR)		85			2			125			6		
Link Speed (mph)		30			30			30			30		
Link Distance (ft)		468			472			538			508		
Travel Time (s)		10.6			10.7			12.2			11.5		
Peak Hour Factor	0.91	0.91	0.91	0.46	0.46	0.46	0.86	0.86	0.86	0.89	0.89	0.89	
Heavy Vehicles (%)	0%	4%	2%	5%	3%	0%	3%	1%	3%	14%	6%	0%	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	884	0	0	826	0	116	349	0	0	135	0	
Turn Type	Perm	NA		Perm	NA		D.P+P	NA		Perm	NA		
Protected Phases		1			1		3	3 4			4		2
Permitted Phases	1			1			4			4			
Detector Phase	1	1		1	1		3	3 4		4	4		
Switch Phase													
Minimum Initial (s)	15.0	15.0		15.0	15.0		6.0			8.0	8.0		7.0
Minimum Split (s)	20.0	20.0		20.0	20.0		11.0			13.0	13.0		15.0
Total Split (s)	47.0	47.0		47.0	47.0		13.0			25.0	25.0		15.0
Total Split (%)	47.0%	47.0%		47.0%	47.0%		13.0%			25.0%	25.0%		15%
Yellow Time (s)	4.0	4.0		4.0	4.0		3.0			4.0	4.0		4.0
All-Red Time (s)	1.0	1.0		1.0	1.0		2.0			1.0	1.0		2.0
Lost Time Adjust (s)		0.0			0.0		0.0				0.0		
Total Lost Time (s)		5.0			5.0		5.0				5.0		
Lead/Lag	Lead	Lead		Lead	Lead		Lead			Lag	Lag		Lag
Lead-Lag Optimize?													
Recall Mode	C-Max	C-Max		C-Max	C-Max		None			None	None		None
Act Effct Green (s)		51.1			51.1		21.9	26.9			13.7		
Actuated g/C Ratio		0.51			0.51		0.22	0.27			0.14		
v/c Ratio		0.54			0.81		0.43	0.65			0.56		
Control Delay		17.9			27.6		32.8	25.8			46.4		
Queue Delay		0.0			0.0		0.0	0.0			0.0		
Total Delay		17.9			27.6		32.8	25.8			46.4		
LOS		B			C		C	C			D		
Approach Delay		17.9			27.6			27.5			46.4		
Approach LOS		B			C			C			D		
Queue Length 50th (ft)		183			162		58	126			78		
Queue Length 95th (ft)		276			103		91	188			128		
Internal Link Dist (ft)		388			392			458			428		
Turn Bay Length (ft)													
Base Capacity (vph)		1646			1025		270	633			349		
Starvation Cap Reductn		0			0		0	0			0		
Spillback Cap Reductn		0			0		0	0			0		
Storage Cap Reductn		0			0		0	0			0		
Reduced v/c Ratio		0.54			0.81		0.43	0.55			0.39		

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 91 (91%), Referenced to phase 1:EBWB, Start of Green			
Natural Cycle: 80			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.81			
Intersection Signal Delay: 25.0		Intersection LOS: C	
Intersection Capacity Utilization 66.0%		ICU Level of Service C	
Analysis Period (min) 15			

Splits and Phases: 6: Lowell Avenue & Washington Street





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	90	5	5	1	1	5	0	355	5	5	380	110
Future Volume (vph)	90	5	5	1	1	5	0	355	5	5	380	110
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1765	0	0	1430	0	0	1784	0	0	1749	0
Flt Permitted		0.957			0.994							
Satd. Flow (perm)	0	1765	0	0	1430	0	0	1784	0	0	1749	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		429			543			492			814	
Travel Time (s)		9.8			12.3			11.2			18.5	
Peak Hour Factor	0.91	0.91	0.91	0.88	0.88	0.88	0.38	0.38	0.38	0.48	0.48	0.48
Heavy Vehicles (%)	1%	0%	33%	0%	0%	25%	0%	6%	25%	0%	5%	7%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	109	0	0	8	0	0	947	0	0	1031	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	49.7%	ICU Level of Service	A
Analysis Period (min)	15		

Intersection	
Int Delay, s/veh	33

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	90	5	5	1	1	5	0	355	5	5	380	110
Future Vol, veh/h	90	5	5	1	1	5	0	355	5	5	380	110
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	91	91	91	88	88	88	38	38	38	48	48	48
Heavy Vehicles, %	1	0	33	0	0	25	0	6	25	0	5	7
Mvmt Flow	99	5	5	1	1	6	0	934	13	10	792	229

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1871	1874	907	1873	1982	941	1021	0	0	947	0	0
Stage 1	927	927	-	941	941	-	-	-	-	-	-	-
Stage 2	944	947	-	932	1041	-	-	-	-	-	-	-
Critical Hdwy	7.11	6.5	6.53	7.1	6.5	6.45	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.11	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.11	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.509	4	3.597	3.5	4	3.525	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	~ 55	73	294	56	62	290	688	-	-	733	-	-
Stage 1	323	350	-	319	345	-	-	-	-	-	-	-
Stage 2	316	342	-	322	310	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	~ 52	71	294	50	60	290	688	-	-	733	-	-
Mov Cap-2 Maneuver	~ 52	71	-	50	60	-	-	-	-	-	-	-
Stage 1	323	338	-	319	345	-	-	-	-	-	-	-
Stage 2	309	342	-	301	300	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	$ 625.6	34.5	0	0.1
HCM LOS	F	D		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	688	-	-	55	130	733	-	-
HCM Lane V/C Ratio	-	-	-	1.998	0.061	0.014	-	-
HCM Control Delay (s)	0	-	-	$ 625.6	34.5	10	0	-
HCM Lane LOS	A	-	-	F	D	A	A	-
HCM 95th %tile Q(veh)	0	-	-	10.7	0.2	0	-	-

Notes

~: Volume exceeds capacity $: Delay exceeds 300s +: Computation Not Defined *: All major volume in platoon

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	5	0	5	0	105	2	0	110	0
Future Volume (vph)	0	0	0	5	0	5	0	105	2	0	110	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	0	0	1583	0	0	0	1878	0	0	1776	0
Flt Permitted				0.950								
Satd. Flow (perm)	0	0	0	1583	0	0	0	1878	0	0	1776	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		185			529			508			443	
Travel Time (s)		4.2			12.0			11.5			10.1	
Peak Hour Factor	0.92	0.92	0.92	0.55	0.92	0.55	0.92	0.45	0.45	0.70	0.70	0.92
Heavy Vehicles (%)	2%	2%	2%	14%	2%	0%	2%	1%	0%	0%	7%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	9	9	0	0	237	0	0	157	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization Err%		ICU Level of Service H	
Analysis Period (min) 15			

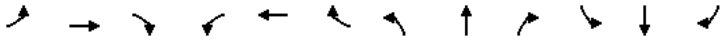
Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	5	0	5	0	105	2	0	110	0
Future Vol, veh/h	0	0	0	5	0	5	0	105	2	0	110	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	0	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	55	92	55	92	45	45	70	70	92
Heavy Vehicles, %	2	2	2	14	2	0	2	1	0	0	7	2
Mvmt Flow	0	0	0	9	0	9	0	233	4	0	157	0

Major/Minor	Minor1			Major1				Major2		
Conflicting Flow All	392	-	235	-	0	0	237	0	0	
Stage 1	235	-	-	-	-	-	-	-	-	
Stage 2	157	-	-	-	-	-	-	-	-	
Critical Hdwy	6.54	-	6.2	-	-	-	4.1	-	-	
Critical Hdwy Stg 1	5.54	-	-	-	-	-	-	-	-	
Critical Hdwy Stg 2	5.54	-	-	-	-	-	-	-	-	
Follow-up Hdwy	3.626	-	3.3	-	-	-	2.2	-	-	
Pot Cap-1 Maneuver	590	0	809	0	-	-	1342	-	0	
Stage 1	777	0	-	0	-	-	-	-	0	
Stage 2	843	0	-	0	-	-	-	-	0	
Platoon blocked, %					-	-		-		
Mov Cap-1 Maneuver	590	0	809	-	-	-	1342	-	-	
Mov Cap-2 Maneuver	590	0	-	-	-	-	-	-	-	
Stage 1	777	0	-	-	-	-	-	-	-	
Stage 2	843	0	-	-	-	-	-	-	-	

Approach	WB	NB	SB
HCM Control Delay, s	10.4	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	682	1342	-
HCM Lane V/C Ratio	-	-	0.027	-	-
HCM Control Delay (s)	-	-	10.4	0	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.1	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	0	0	0	0	0	5	345	0	0	360	2
Future Volume (vph)	2	0	0	0	0	0	5	345	0	0	360	2
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1805	0	0	0	0	0	0	1809	0	0	1791	0
Flt Permitted	0.950							0.999				
Satd. Flow (perm)	1805	0	0	0	0	0	0	1809	0	0	1791	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		529			242			183			255	
Travel Time (s)		12.0			5.5			4.2			5.8	
Peak Hour Factor	0.88	0.92	0.88	0.92	0.92	0.92	0.85	0.85	0.92	0.92	0.50	0.50
Heavy Vehicles (%)	0%	2%	0%	2%	2%	2%	0%	5%	2%	2%	6%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	2	0	0	0	0	0	0	412	0	0	724	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 32.2%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	0	0	0	0	5	345	0	0	360	2
Future Vol, veh/h	2	0	0	0	0	0	5	345	0	0	360	2
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	92	88	92	92	92	85	85	92	92	50	50
Heavy Vehicles, %	0	2	0	2	2	2	0	5	2	2	6	0
Mvmt Flow	2	0	0	0	0	0	6	406	0	0	720	4

Major/Minor	Minor2					Major1			Major2		
Conflicting Flow All	1140	-	-			724	0	-	-	-	0
Stage 1	722	-	-			-	-	-	-	-	-
Stage 2	418	-	-			-	-	-	-	-	-
Critical Hdwy	6.4	-	-			4.1	-	-	-	-	-
Critical Hdwy Stg 1	5.4	-	-			-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-			-	-	-	-	-	-
Follow-up Hdwy	3.5	-	-			2.2	-	-	-	-	-
Pot Cap-1 Maneuver	224	0	0			888	-	0	0	-	-
Stage 1	485	0	0			-	-	0	0	-	-
Stage 2	669	0	0			-	-	0	0	-	-
Platoon blocked, %							-			-	-
Mov Cap-1 Maneuver	222	0	-			888	-	-	-	-	-
Mov Cap-2 Maneuver	222	0	-			-	-	-	-	-	-
Stage 1	481	0	-			-	-	-	-	-	-
Stage 2	669	0	-			-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	21.4	0.1	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	888	-	222	-	-
HCM Lane V/C Ratio	0.007	-	0.01	-	-
HCM Control Delay (s)	9.1	0	21.4	-	-
HCM Lane LOS	A	A	C	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	1	0	0	0	10	110	5	15	95	5
Future Volume (vph)	0	0	1	0	0	0	10	110	5	15	95	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1644	0	0	1900	0	0	1771	0	0	1862	0
Flt Permitted								0.996			0.994	
Satd. Flow (perm)	0	1644	0	0	1900	0	0	1771	0	0	1862	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		206			280			443			429	
Travel Time (s)		4.7			6.4			10.1			9.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.46	0.46	0.46	0.52	0.52	0.52
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	13%	6%	0%	0%	1%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1	0	0	0	0	0	272	0	0	222	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization	19.4%	ICU Level of Service	A
Analysis Period (min)	15		

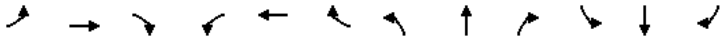
Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	1	0	0	0	10	110	5	15	95	5
Future Vol, veh/h	0	0	1	0	0	0	10	110	5	15	95	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	46	46	46	52	52	52
Heavy Vehicles, %	0	0	0	0	0	0	13	6	0	0	1	0
Mvmt Flow	0	0	1	0	0	0	22	239	11	29	183	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	535	540	188	536	540	245	193	0	0	250	0	0
Stage 1	246	246	-	289	289	-	-	-	-	-	-	-
Stage 2	289	294	-	247	251	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.23	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.317	-	-	2.2	-	-
Pot Cap-1 Maneuver	459	451	859	459	451	799	1317	-	-	1327	-	-
Stage 1	762	706	-	723	677	-	-	-	-	-	-	-
Stage 2	723	673	-	761	703	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	444	432	859	443	432	799	1317	-	-	1327	-	-
Mov Cap-2 Maneuver	444	432	-	443	432	-	-	-	-	-	-	-
Stage 1	748	689	-	709	664	-	-	-	-	-	-	-
Stage 2	709	660	-	742	686	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	9.2	0	0.6	1
HCM LOS	A	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1317	-	-	859	-	1327	-	-
HCM Lane V/C Ratio	0.017	-	-	0.001	-	0.022	-	-
HCM Control Delay (s)	7.8	0	-	9.2	0	7.8	0	-
HCM Lane LOS	A	A	-	A	A	A	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-	0.1	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	2	0	10	0	0	0	0	340	0	0	365	0
Future Volume (vph)	2	0	10	0	0	0	0	340	0	0	365	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1203	0	0	0	0	0	0	1792	0	0	1792	0
Flt Permitted	0.950											
Satd. Flow (perm)	1203	0	0	0	0	0	0	1792	0	0	1792	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		280			188			255			492	
Travel Time (s)		6.4			4.3			5.8			11.2	
Peak Hour Factor	0.88	0.92	0.88	0.92	0.92	0.92	0.80	0.80	0.92	0.92	0.50	0.50
Heavy Vehicles (%)	50%	2%	0%	2%	2%	2%	0%	6%	2%	2%	6%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	2	11	0	0	0	0	0	425	0	0	730	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization Err%		ICU Level of Service H	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	2	0	10	0	0	0	0	340	0	0	365	0
Future Vol, veh/h	2	0	10	0	0	0	0	340	0	0	365	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	88	92	88	92	92	92	80	80	92	92	50	50
Heavy Vehicles, %	50	2	0	2	2	2	0	6	2	2	6	0
Mvmt Flow	2	0	11	0	0	0	0	425	0	0	730	0

Major/Minor	Minor2						Major1			Major2		
Conflicting Flow All	1155	-	730				-	0	-	-	-	0
Stage 1	730	-	-				-	-	-	-	-	-
Stage 2	425	-	-				-	-	-	-	-	-
Critical Hdwy	6.9	-	6.2				-	-	-	-	-	-
Critical Hdwy Stg 1	5.9	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.9	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.95	-	3.3				-	-	-	-	-	-
Pot Cap-1 Maneuver	176	0	426				0	-	0	0	-	0
Stage 1	400	0	-				0	-	0	0	-	0
Stage 2	568	0	-				0	-	0	0	-	0
Platoon blocked, %								-			-	
Mov Cap-1 Maneuver	176	0	426				-	-	-	-	-	-
Mov Cap-2 Maneuver	176	0	-				-	-	-	-	-	-
Stage 1	400	0	-				-	-	-	-	-	-
Stage 2	568	0	-				-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	15.9	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT
Capacity (veh/h)	-	344	-
HCM Lane V/C Ratio	-	0.04	-
HCM Control Delay (s)	-	15.9	-
HCM Lane LOS	-	C	-
HCM 95th %tile Q(veh)	-	0.1	-

Lane Group	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Volume (vph)	10	20	15	335	345	10
Future Volume (vph)	10	20	15	335	345	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1646	0	0	1793	1772	0
Flt Permitted	0.984			0.998		
Satd. Flow (perm)	1646	0	0	1793	1772	0
Link Speed (mph)	30			30	30	
Link Distance (ft)	340			282	183	
Travel Time (s)	7.7			6.4	4.2	
Peak Hour Factor	0.89	0.89	0.84	0.84	0.68	0.68
Heavy Vehicles (%)	0%	5%	0%	6%	7%	0%
Shared Lane Traffic (%)						
Lane Group Flow (vph)	33	0	0	417	522	0
Sign Control	Stop			Free	Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 39.8%		ICU Level of Service A	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	10	20	15	335	345	10
Future Vol, veh/h	10	20	15	335	345	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	-
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	89	89	84	84	68	68
Heavy Vehicles, %	0	5	0	6	7	0
Mvmt Flow	11	22	18	399	507	15

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	950	515	522	0	-	0
Stage 1	515	-	-	-	-	-
Stage 2	435	-	-	-	-	-
Critical Hdwy	6.4	6.25	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.345	2.2	-	-	-
Pot Cap-1 Maneuver	291	554	1055	-	-	-
Stage 1	604	-	-	-	-	-
Stage 2	657	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	285	554	1055	-	-	-
Mov Cap-2 Maneuver	285	-	-	-	-	-
Stage 1	591	-	-	-	-	-
Stage 2	657	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	14.3	0.4	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1055	-	421	-	-
HCM Lane V/C Ratio	0.017	-	0.08	-	-
HCM Control Delay (s)	8.5	0	14.3	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.3	-	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	NBR2	NWL	NWR
Lane Configurations									
Traffic Volume (vph)	0	0	10	0	0	25	5	5	10
Future Volume (vph)	0	0	10	0	0	25	5	5	10
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	0	1805	0	0	1644	0	1701	0
Flt Permitted			0.950					0.984	
Satd. Flow (perm)	0	0	1805	0	0	1644	0	1701	0
Link Speed (mph)	30			30	30			30	
Link Distance (ft)	65			155	166			200	
Travel Time (s)	1.5			3.5	3.8			4.5	
Peak Hour Factor	0.92	0.92	0.70	0.70	0.78	0.78	0.78	0.56	0.56
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	0%	0%
Shared Lane Traffic (%)									
Lane Group Flow (vph)	0	0	14	0	0	38	0	27	0
Sign Control	Free			Free	Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 13.3%		ICU Level of Service A	
Analysis Period (min) 15			

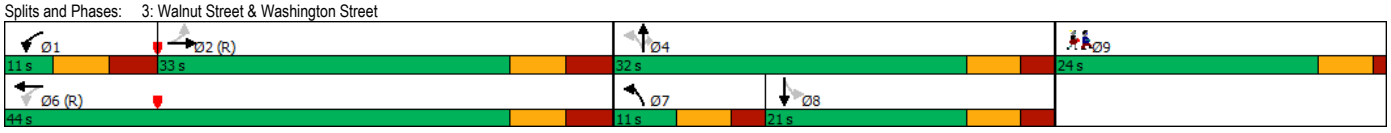
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø9
Lane Configurations													
Traffic Volume (vph)	5	415	70	195	475	60	120	365	150	35	290	25	
Future Volume (vph)	5	415	70	195	475	60	120	365	150	35	290	25	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Satd. Flow (prot)	0	3486	0	0	3473	0	1752	1863	1599	1752	1858	0	
Flt Permitted		0.943			0.643		0.190			0.372			
Satd. Flow (perm)	0	3291	0	0	2263	0	350	1863	1599	686	1858	0	
Right Turn on Red			Yes			Yes			Yes			Yes	
Satd. Flow (RTOR)		18			10				185		4		
Link Speed (mph)		30			30			30			30		
Link Distance (ft)		377			862			300			282		
Travel Time (s)		8.6			19.6			6.8			6.4		
Peak Hour Factor	0.87	0.87	0.87	0.84	0.84	0.84	0.90	0.90	0.90	0.88	0.88	0.80	
Heavy Vehicles (%)	0%	1%	3%	2%	1%	2%	3%	2%	1%	3%	1%	0%	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	563	0	0	868	0	133	406	167	40	361	0	
Turn Type	Perm	NA		pm+pt	NA		pm+pt	NA	Perm	Perm	NA		
Protected Phases		2		1	6		7	4			8		9
Permitted Phases	2			6			4		4	8			
Detector Phase	2	2		1	6		7	4	4	8	8		
Switch Phase													
Minimum Initial (s)	10.0	10.0		6.0	10.0		6.0	6.0	6.0	10.0	10.0		7.0
Minimum Split (s)	18.0	18.0		14.0	18.0		13.0	15.0	15.0	17.0	17.0		24.0
Total Split (s)	33.0	33.0		11.0	44.0		11.0	32.0	32.0	21.0	21.0		24.0
Total Split (%)	33.0%	33.0%		11.0%	44.0%		11.0%	32.0%	32.0%	21.0%	21.0%		24%
Yellow Time (s)	4.0	4.0		4.0	4.0		4.0	4.0	4.0	4.0	4.0		4.0
All-Red Time (s)	3.5	3.5		3.5	3.5		2.5	2.5	2.5	2.5	2.5		1.0
Lost Time Adjust (s)		0.0			0.0		0.0	0.0	0.0	0.0	0.0		
Total Lost Time (s)		7.5			7.5		6.5	6.5	6.5	6.5	6.5		
Lead/Lag	Lag	Lag		Lead			Lead			Lag	Lag		
Lead-Lag Optimize?													
Recall Mode	C-Min	C-Min		None	C-Max		None	None	None	None	None		None
Act Effct Green (s)		36.5			36.5		25.5	25.5	25.5	14.5	14.5		
Actuated g/C Ratio		0.36			0.36		0.26	0.26	0.26	0.14	0.14		
v/c Ratio		0.46			1.04		0.88	0.85	0.31	0.40	1.33		
Control Delay		18.2			75.1		81.0	54.2	5.1	52.2	205.7		
Queue Delay		0.0			0.0		0.0	0.0	0.0	0.0	0.0		
Total Delay		18.2			75.1		81.0	54.2	5.1	52.2	205.7		
LOS		B			E		F	D	A	D	F		
Approach Delay		18.2			75.1			47.6			190.4		
Approach LOS		B			E			D			F		
Queue Length 50th (ft)		77			~315		69	247	0	23	~300		
Queue Length 95th (ft)		123			#391		#172	#410	41	57	#466		
Internal Link Dist (ft)		297			782			220			202		
Turn Bay Length (ft)													
Base Capacity (vph)		1212			832		152	475	545	99	272		
Starvation Cap Reductn		0			0		0	0	0	0	0		
Spillback Cap Reductn		0			0		0	0	0	0	0		
Storage Cap Reductn		0			0		0	0	0	0	0		
Reduced v/c Ratio		0.46			1.04		0.88	0.85	0.31	0.40	1.33		

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 0 (0%), Referenced to phase 2:EBTL and 6:WBTL, Start of Green, Master Intersection			
Natural Cycle: 120			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 1.33			
Intersection Signal Delay: 73.0		Intersection LOS: E	
Intersection Capacity Utilization 85.4%		ICU Level of Service E	
Analysis Period (min) 15			

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

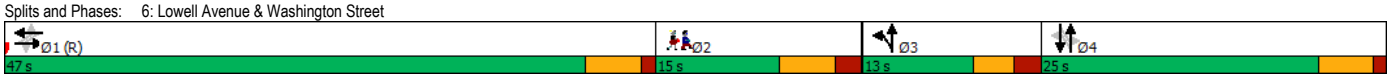
Splits and Phases: 3: Walnut Street & Washington Street

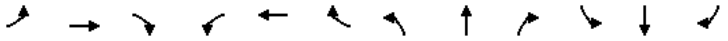


Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Ø2
Lane Configurations													
Traffic Volume (vph)	20	450	150	130	480	15	165	150	95	10	185	20	
Future Volume (vph)	20	450	150	130	480	15	165	150	95	10	185	20	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Satd. Flow (prot)	0	3423	0	0	3515	0	1770	1772	0	0	1856	0	
Flt Permitted		0.914			0.641		0.321				0.976		
Satd. Flow (perm)	0	3135	0	0	2276	0	598	1772	0	0	1815	0	
Right Turn on Red			Yes			Yes			Yes			Yes	
Satd. Flow (RTOR)		53			3			34			5		
Link Speed (mph)		30			30			30			30		
Link Distance (ft)		468			472			538			508		
Travel Time (s)		10.6			10.7			12.2			11.5		
Peak Hour Factor	0.96	0.96	0.96	0.78	0.78	0.78	0.89	0.89	0.89	0.93	0.93	0.93	
Heavy Vehicles (%)	0%	2%	0%	1%	1%	12%	2%	1%	1%	0%	1%	0%	
Shared Lane Traffic (%)													
Lane Group Flow (vph)	0	646	0	0	801	0	185	276	0	0	232	0	
Turn Type	Perm	NA		Perm	NA		D.P+P	NA		Perm	NA		
Protected Phases		1			1		3	3 4			4		2
Permitted Phases	1			1			4			4			
Detector Phase	1	1		1	1		3	3 4		4	4		
Switch Phase													
Minimum Initial (s)	15.0	15.0		15.0	15.0		6.0			8.0	8.0		7.0
Minimum Split (s)	20.0	20.0		20.0	20.0		11.0			13.0	13.0		15.0
Total Split (s)	47.0	47.0		47.0	47.0		13.0			25.0	25.0		15.0
Total Split (%)	47.0%	47.0%		47.0%	47.0%		13.0%			25.0%	25.0%		15%
Yellow Time (s)	4.0	4.0		4.0	4.0		3.0			4.0	4.0		4.0
All-Red Time (s)	1.0	1.0		1.0	1.0		2.0			1.0	1.0		2.0
Lost Time Adjust (s)		0.0			0.0		0.0				0.0		
Total Lost Time (s)		5.0			5.0		5.0				5.0		
Lead/Lag	Lead	Lead		Lead	Lead		Lead			Lag	Lag		Lag
Lead-Lag Optimize?													
Recall Mode	C-Max	C-Max		C-Max	C-Max		None			None	None		None
Act Effct Green (s)		49.7			49.7		26.3	31.3			17.0		
Actuated g/C Ratio		0.50			0.50		0.26	0.31			0.17		
v/c Ratio		0.41			0.71		0.69	0.48			0.74		
Control Delay		17.1			21.9		42.3	26.8			53.0		
Queue Delay		0.0			0.0		0.0	0.0			0.0		
Total Delay		17.1			21.9		42.3	26.8			53.0		
LOS		B			C		D	C			D		
Approach Delay		17.1			21.9			33.1			53.0		
Approach LOS		B			C			C			D		
Queue Length 50th (ft)		136			144		90	123			136		
Queue Length 95th (ft)		191			m141		#161	193			215		
Internal Link Dist (ft)		388			392			458			428		
Turn Bay Length (ft)													
Base Capacity (vph)		1583			1131		267	631			367		
Starvation Cap Reductn		0			0		0	0			0		
Spillback Cap Reductn		0			0		0	0			0		
Storage Cap Reductn		0			0		0	0			0		
Reduced v/c Ratio		0.41			0.71		0.69	0.44			0.63		

Intersection Summary			
Area Type:	Other		
Cycle Length: 100			
Actuated Cycle Length: 100			
Offset: 91 (91%), Referenced to phase 1:EBWB, Start of Green			
Natural Cycle: 80			
Control Type: Actuated-Coordinated			
Maximum v/c Ratio: 0.74			
Intersection Signal Delay: 26.2		Intersection LOS: C	
Intersection Capacity Utilization 77.2%		ICU Level of Service D	
Analysis Period (min) 15			
# 95th percentile volume exceeds capacity, queue may be longer.			
Queue shown is maximum after two cycles.			
m Volume for 95th percentile queue is metered by upstream signal.			

Splits and Phases: 6: Lowell Avenue & Washington Street





Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	140	0	0	5	0	5	0	380	5	5	315	200
Future Volume (vph)	140	0	0	5	0	5	0	380	5	5	315	200
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1787	0	0	1728	0	0	1790	0	0	1773	0
Flt Permitted		0.950			0.976							
Satd. Flow (perm)	0	1787	0	0	1728	0	0	1790	0	0	1773	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		429			543			492			814	
Travel Time (s)		9.8			12.3			11.2			18.5	
Peak Hour Factor	0.86	0.86	0.86	0.84	0.84	0.84	0.50	0.50	0.50	0.84	0.84	0.84
Heavy Vehicles (%)	1%	0%	0%	0%	0%	0%	0%	6%	0%	0%	2%	1%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	163	0	0	12	0	0	770	0	0	619	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 53.3%		ICU Level of Service A	
Analysis Period (min) 15			

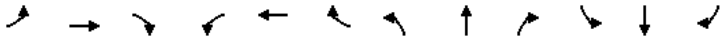
Intersection	
Int Delay, s/veh	13.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	140	0	0	5	0	5	0	380	5	5	315	200
Future Vol, veh/h	140	0	0	5	0	5	0	380	5	5	315	200
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	Stop	-	-	Stop	-	-	Free	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	86	86	86	84	84	84	50	50	50	84	84	84
Heavy Vehicles, %	1	0	0	0	0	0	0	6	0	0	2	1
Mvmt Flow	163	0	0	6	0	6	0	760	10	6	375	238

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1147	1147	375	1147	1147	760	375	0	-	760	0	0
Stage 1	387	387	-	760	760	-	-	-	-	-	-	-
Stage 2	760	760	-	387	387	-	-	-	-	-	-	-
Critical Hdwy	7.11	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.11	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.11	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.509	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	177	201	676	178	201	409	1195	-	0	861	-	0
Stage 1	639	613	-	401	417	-	-	-	0	-	-	0
Stage 2	400	417	-	641	613	-	-	-	0	-	-	0
Platoon blocked, %								-			-	
Mov Cap-1 Maneuver	173	199	676	177	199	409	1195	-	-	861	-	-
Mov Cap-2 Maneuver	173	199	-	177	199	-	-	-	-	-	-	-
Stage 1	639	607	-	401	417	-	-	-	-	-	-	-
Stage 2	394	417	-	635	607	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	107.3	15.5	0	0.1
HCM LOS	F	C		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	1195	-	173	354	861	-
HCM Lane V/C Ratio	-	-	0.941	0.034	0.007	-
HCM Control Delay (s)	0	-	107.3	15.5	9.2	0
HCM Lane LOS	A	-	F	C	A	A
HCM 95th %tile Q(veh)	0	-	7.2	0.1	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	15	0	10	0	180	1	0	200	0
Future Volume (vph)	0	0	0	15	0	10	0	180	1	0	200	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	0	0	1805	0	0	0	1879	0	0	1881	0
Flt Permitted				0.950								
Satd. Flow (perm)	0	0	0	1805	0	0	0	1879	0	0	1881	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		158			529			508			443	
Travel Time (s)		3.6			12.0			11.5			10.1	
Peak Hour Factor	0.92	0.92	0.92	0.90	0.92	0.90	0.92	0.71	0.71	0.64	0.64	0.92
Heavy Vehicles (%)	2%	2%	2%	0%	2%	13%	2%	1%	0%	0%	1%	2%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	17	11	0	0	255	0	0	313	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization Err%		ICU Level of Service H	
Analysis Period (min) 15			

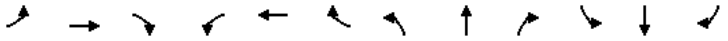
Intersection	
Int Delay, s/veh	0.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	15	0	10	0	180	1	0	200	0
Future Vol, veh/h	0	0	0	15	0	10	0	180	1	0	200	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	0	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	90	92	90	92	71	71	64	64	92
Heavy Vehicles, %	2	2	2	0	2	13	2	1	0	0	1	2
Mvmt Flow	0	0	0	17	0	11	0	254	1	0	313	0

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	568	-	255	-	0	0	255	0	0
Stage 1	255	-	-	-	-	-	-	-	-
Stage 2	313	-	-	-	-	-	-	-	-
Critical Hdwy	6.4	-	6.33	-	-	-	4.1	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	-	3.417	-	-	-	2.2	-	-
Pot Cap-1 Maneuver	488	0	758	0	-	-	1322	-	0
Stage 1	792	0	-	0	-	-	-	-	0
Stage 2	746	0	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	488	0	758	-	-	-	1322	-	-
Mov Cap-2 Maneuver	488	0	-	-	-	-	-	-	-
Stage 1	792	0	-	-	-	-	-	-	-
Stage 2	746	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.7	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBL	SBT
Capacity (veh/h)	-	-	569	1322	-
HCM Lane V/C Ratio	-	-	0.049	-	-
HCM Control Delay (s)	-	-	11.7	0	-
HCM Lane LOS	-	-	B	A	-
HCM 95th %tile Q(veh)	-	-	0.2	0	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	0	0	0	0	15	375	0	0	320	5
Future Volume (vph)	0	0	0	0	0	0	15	375	0	0	320	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1900	0	0	0	0	0	0	1805	0	0	1850	0
Flt Permitted								0.998				
Satd. Flow (perm)	1900	0	0	0	0	0	0	1805	0	0	1850	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		529			186			183			255	
Travel Time (s)		12.0			4.2			4.2			5.8	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.85	0.85	0.92	0.92	0.90	0.90
Heavy Vehicles (%)	0%	2%	0%	2%	2%	2%	7%	5%	2%	2%	2%	33%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	0	0	0	0	0	0	459	0	0	362	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 35.2%		ICU Level of Service A	
Analysis Period (min) 15			

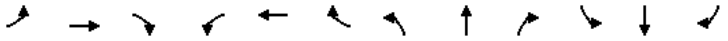
Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	0	0	0	0	0	0	15	375	0	0	320	5
Future Vol, veh/h	0	0	0	0	0	0	15	375	0	0	320	5
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	85	85	92	92	90	90
Heavy Vehicles, %	0	2	0	2	2	2	7	5	2	2	2	33
Mvmt Flow	0	0	0	0	0	0	18	441	0	0	356	6

Major/Minor	Minor2					Major1			Major2		
Conflicting Flow All	836	-	-			362	0	-	-	-	0
Stage 1	359	-	-			-	-	-	-	-	-
Stage 2	477	-	-			-	-	-	-	-	-
Critical Hdwy	6.4	-	-			4.17	-	-	-	-	-
Critical Hdwy Stg 1	5.4	-	-			-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-			-	-	-	-	-	-
Follow-up Hdwy	3.5	-	-			2.263	-	-	-	-	-
Pot Cap-1 Maneuver	340	0	0			1169	-	0	0	-	-
Stage 1	711	0	0			-	-	0	0	-	-
Stage 2	629	0	0			-	-	0	0	-	-
Platoon blocked, %							-			-	-
Mov Cap-1 Maneuver	333	0	-			1169	-	-	-	-	-
Mov Cap-2 Maneuver	333	0	-			-	-	-	-	-	-
Stage 1	697	0	-			-	-	-	-	-	-
Stage 2	629	0	-			-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	0	0.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1169	-	-	-	-
HCM Lane V/C Ratio	0.015	-	-	-	-
HCM Control Delay (s)	8.1	0	0	-	-
HCM Lane LOS	A	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	0	0	1	0	0	0	2	200	5	20	155	20
Future Volume (vph)	0	0	1	0	0	0	2	200	5	20	155	20
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	1644	0	0	1900	0	0	1870	0	0	1810	0
Flt Permitted											0.995	
Satd. Flow (perm)	0	1644	0	0	1900	0	0	1870	0	0	1810	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		206			280			443			429	
Travel Time (s)		4.7			6.4			10.1			9.8	
Peak Hour Factor	0.92	0.92	0.92	0.73	0.73	0.73	0.96	0.96	0.96	0.25	0.25	0.25
Heavy Vehicles (%)	0%	0%	0%	0%	0%	0%	0%	1%	14%	0%	3%	6%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	0	1	0	0	0	0	0	215	0	0	780	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 32.8%		ICU Level of Service A	
Analysis Period (min) 15			

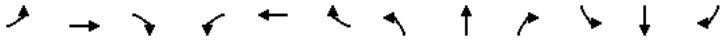
Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	0	0	1	0	0	0	2	200	5	20	155	20
Future Vol, veh/h	0	0	1	0	0	0	2	200	5	20	155	20
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	73	73	73	96	96	96	25	25	25
Heavy Vehicles, %	0	0	0	0	0	0	0	1	14	0	3	6
Mvmt Flow	0	0	1	0	0	0	2	208	5	80	620	80

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	1035	1037	660	1036	1075	211	700	0	0	213	0	0
Stage 1	820	820	-	215	215	-	-	-	-	-	-	-
Stage 2	215	217	-	821	860	-	-	-	-	-	-	-
Critical Hdwy	7.1	6.5	6.2	7.1	6.5	6.2	4.1	-	-	4.1	-	-
Critical Hdwy Stg 1	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.1	5.5	-	6.1	5.5	-	-	-	-	-	-	-
Follow-up Hdwy	3.5	4	3.3	3.5	4	3.3	2.2	-	-	2.2	-	-
Pot Cap-1 Maneuver	212	233	467	212	221	834	906	-	-	1369	-	-
Stage 1	372	392	-	792	729	-	-	-	-	-	-	-
Stage 2	792	727	-	371	376	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	196	210	467	195	199	834	906	-	-	1369	-	-
Mov Cap-2 Maneuver	196	210	-	195	199	-	-	-	-	-	-	-
Stage 1	371	354	-	790	727	-	-	-	-	-	-	-
Stage 2	790	725	-	334	340	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	12.7	0	0.1	0.8
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	906	-	-	467	-	1369	-	-
HCM Lane V/C Ratio	0.002	-	-	0.002	-	0.058	-	-
HCM Control Delay (s)	9	0	-	12.7	0	7.8	0	-
HCM Lane LOS	A	A	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-	0.2	-	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	10	0	10	0	0	0	0	375	0	0	315	0
Future Volume (vph)	10	0	10	0	0	0	0	375	0	0	315	0
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1626	0	0	0	0	0	0	1810	0	0	1845	0
Flt Permitted	0.950											
Satd. Flow (perm)	1626	0	0	0	0	0	0	1810	0	0	1845	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		280			159			255			492	
Travel Time (s)		6.4			3.6			5.8			11.2	
Peak Hour Factor	0.81	0.92	0.81	0.92	0.92	0.92	0.89	0.89	0.92	0.92	0.48	0.48
Heavy Vehicles (%)	11%	2%	0%	2%	2%	2%	0%	5%	2%	2%	3%	0%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	12	12	0	0	0	0	0	421	0	0	656	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization Err%		ICU Level of Service H	
Analysis Period (min) 15			

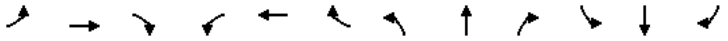
Intersection	
Int Delay, s/veh	0.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	10	0	10	0	0	0	0	375	0	0	315	0
Future Vol, veh/h	10	0	10	0	0	0	0	375	0	0	315	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	92	81	92	92	92	89	89	92	92	48	48
Heavy Vehicles, %	11	2	0	2	2	2	0	5	2	2	3	0
Mvmt Flow	12	0	12	0	0	0	0	421	0	0	656	0

Major/Minor	Minor2						Major1			Major2		
Conflicting Flow All	1077	-	656				-	0	-	-	-	0
Stage 1	656	-	-				-	-	-	-	-	-
Stage 2	421	-	-				-	-	-	-	-	-
Critical Hdwy	6.51	-	6.2				-	-	-	-	-	-
Critical Hdwy Stg 1	5.51	-	-				-	-	-	-	-	-
Critical Hdwy Stg 2	5.51	-	-				-	-	-	-	-	-
Follow-up Hdwy	3.599	-	3.3				-	-	-	-	-	-
Pot Cap-1 Maneuver	233	0	469				0	-	0	0	-	0
Stage 1	500	0	-				0	-	0	0	-	0
Stage 2	643	0	-				0	-	0	0	-	0
Platoon blocked, %								-			-	
Mov Cap-1 Maneuver	233	0	469				-	-	-	-	-	-
Mov Cap-2 Maneuver	233	0	-				-	-	-	-	-	-
Stage 1	500	0	-				-	-	-	-	-	-
Stage 2	643	0	-				-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	17.6	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	EBLn1	SBT
Capacity (veh/h)	-	311	-
HCM Lane V/C Ratio	-	0.079	-
HCM Control Delay (s)	-	17.6	-
HCM Lane LOS	-	C	-
HCM 95th %tile Q(veh)	-	0.3	-



Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	20	0	40	0	0	0	45	370	0	0	285	30
Future Volume (vph)	20	0	40	0	0	0	45	370	0	0	285	30
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	1805	0	0	0	0	0	0	1837	0	0	1837	0
Flt Permitted	0.950							0.995				
Satd. Flow (perm)	1805	0	0	0	0	0	0	1837	0	0	1837	0
Link Speed (mph)		30			30			30			30	
Link Distance (ft)		340			118			282			183	
Travel Time (s)		7.7			2.7			6.4			4.2	
Peak Hour Factor	0.81	0.92	0.81	0.92	0.92	0.92	0.91	0.91	0.92	0.92	0.86	0.86
Heavy Vehicles (%)	0%	2%	5%	2%	2%	2%	2%	3%	2%	2%	2%	3%
Shared Lane Traffic (%)												
Lane Group Flow (vph)	25	49	0	0	0	0	0	456	0	0	366	0
Sign Control		Stop			Stop			Free			Free	

Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization Err%		ICU Level of Service H	
Analysis Period (min) 15			

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	20	0	40	0	0	0	45	370	0	0	285	30
Future Vol, veh/h	20	0	40	0	0	0	45	370	0	0	285	30
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	0	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	81	92	81	92	92	92	91	91	92	92	86	86
Heavy Vehicles, %	0	2	5	2	2	2	2	3	2	2	2	3
Mvmt Flow	25	0	49	0	0	0	49	407	0	0	331	35

Major/Minor	Minor2					Major1			Major2		
Conflicting Flow All	854	-	349			366	0	-	-	-	0
Stage 1	349	-	-			-	-	-	-	-	-
Stage 2	505	-	-			-	-	-	-	-	-
Critical Hdwy	6.4	-	6.25			4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.4	-	-			-	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-			-	-	-	-	-	-
Follow-up Hdwy	3.5	-	3.345			2.218	-	-	-	-	-
Pot Cap-1 Maneuver	332	0	688			1193	-	0	0	-	-
Stage 1	719	0	-			-	-	0	0	-	-
Stage 2	610	0	-			-	-	0	0	-	-
Platoon blocked, %							-			-	-
Mov Cap-1 Maneuver	314	0	688			1193	-	-	-	-	-
Mov Cap-2 Maneuver	314	0	-			-	-	-	-	-	-
Stage 1	681	0	-			-	-	-	-	-	-
Stage 2	610	0	-			-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.6	0.9	0
HCM LOS	B		

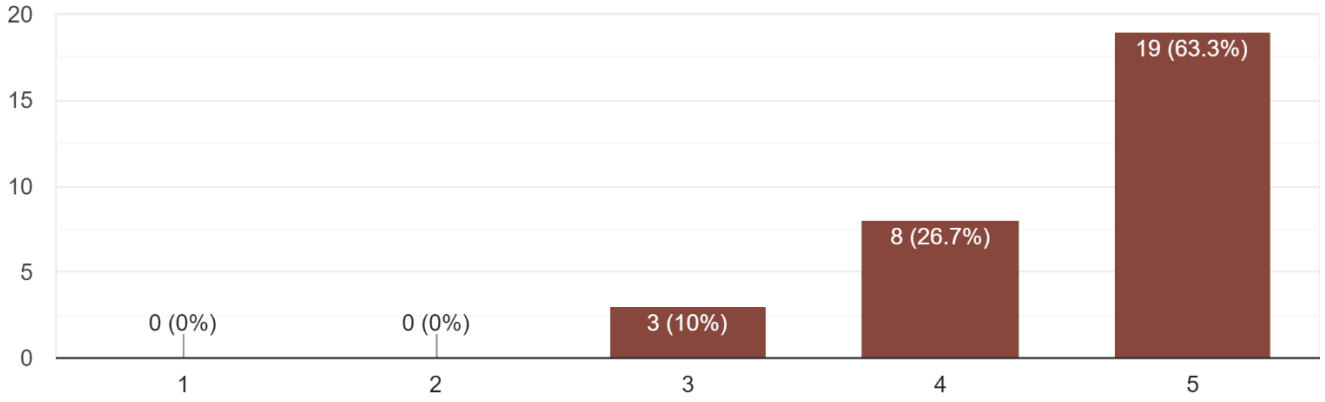
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1193	-	492	-	-
HCM Lane V/C Ratio	0.041	-	0.151	-	-
HCM Control Delay (s)	8.1	0	13.6	-	-
HCM Lane LOS	A	A	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.5	-	-

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR	NBR2	NWL	NWR
Lane Configurations									
Traffic Volume (vph)	0	0	40	0	0	45	5	5	5
Future Volume (vph)	0	0	40	0	0	45	5	5	5
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900
Satd. Flow (prot)	0	0	1719	0	0	1644	0	1728	0
Flt Permitted			0.950					0.976	
Satd. Flow (perm)	0	0	1719	0	0	1644	0	1728	0
Link Speed (mph)	30			30	30			30	
Link Distance (ft)	65			155	166			200	
Travel Time (s)	1.5			3.5	3.8			4.5	
Peak Hour Factor	0.92	0.92	0.66	0.66	0.82	0.82	0.82	0.75	0.75
Heavy Vehicles (%)	0%	0%	5%	0%	0%	0%	0%	0%	0%
Shared Lane Traffic (%)									
Lane Group Flow (vph)	0	0	61	0	0	61	0	14	0
Sign Control	Free			Free	Free			Free	

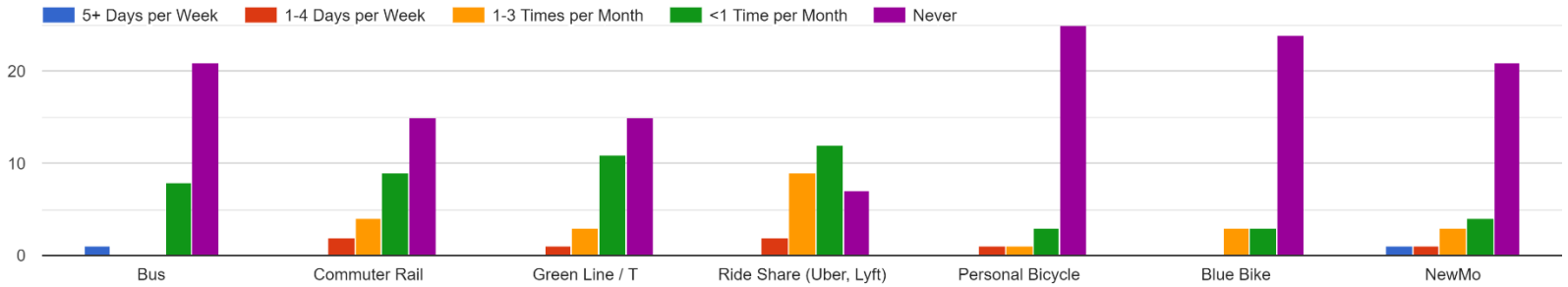
Intersection Summary			
Area Type:	Other		
Control Type: Unsignalized			
Intersection Capacity Utilization 13.3%		ICU Level of Service A	
Analysis Period (min) 15			

How much did Trio's location factor into your decision to lease here?

30 responses

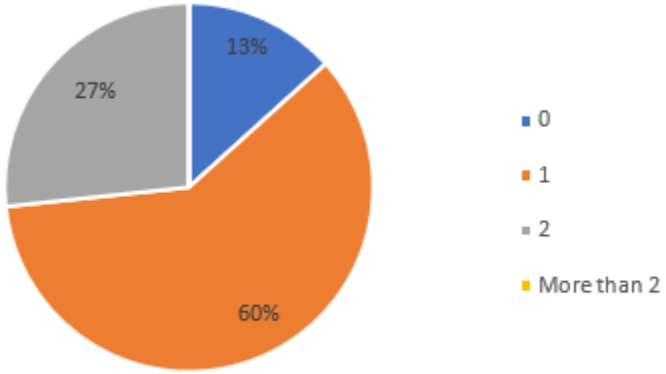


What alternative modes of transportation are you most likely to use?



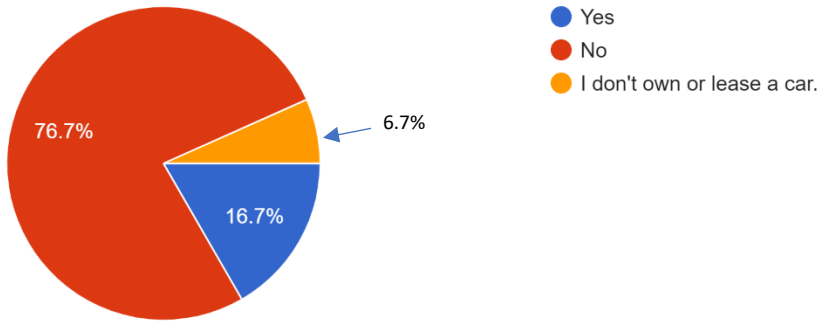
How many cars does your household own or lease?

30 responses



If you do own or lease a car, is it electric or hybrid?

30 responses

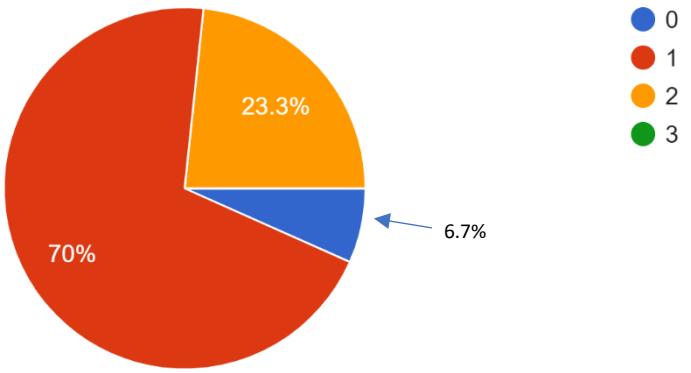


If you do not own or lease a car, why is that? 5 responses

1. Student
2. Business
3. Not driving anymore
4. I would like to save to buy my own car one day
5. N/A

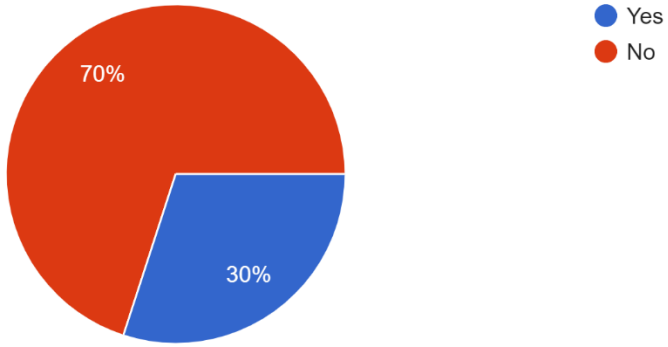
How many parking spaces do you rent at Trio?

30 responses



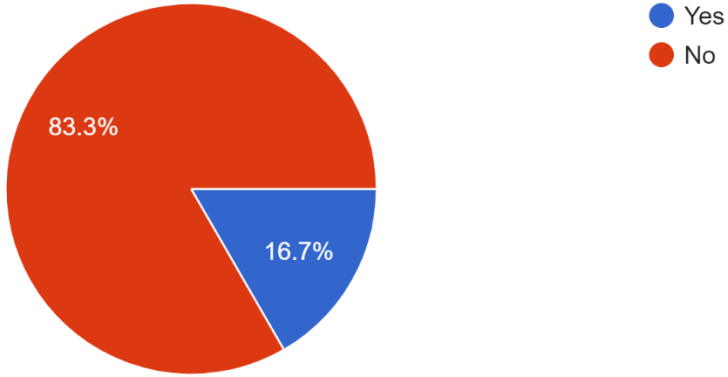
Do you own a bicycle?

30 responses



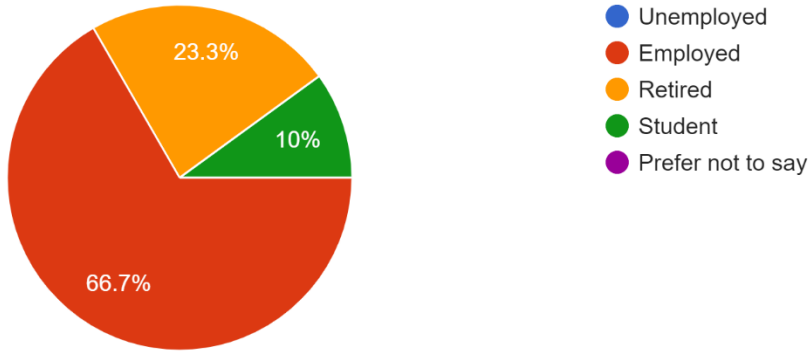
Do you use the bicycle storage in the garage?

30 responses



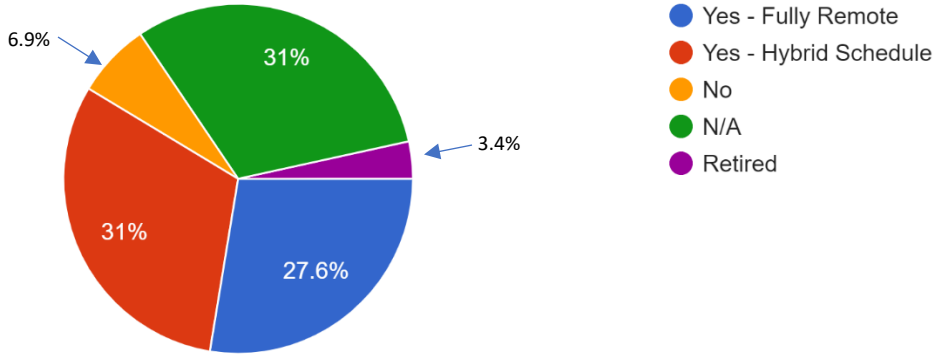
What is your employment status?

30 responses

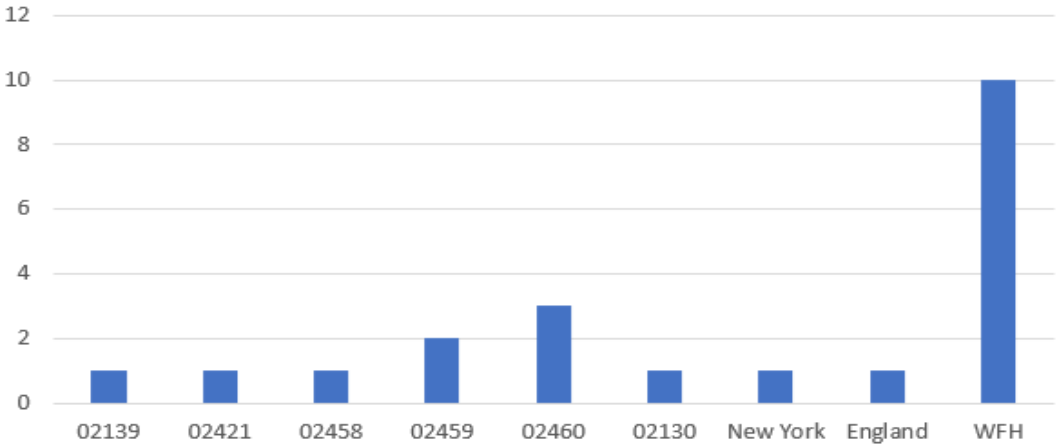


Does your employer allow you to work from home?

29 responses

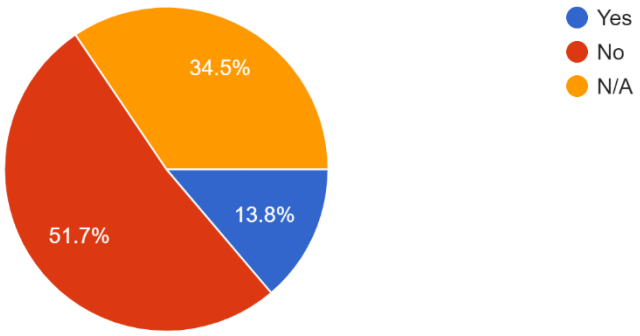


Where is your workplace located? Please state the zip code. If you work from home, please state you work from home.



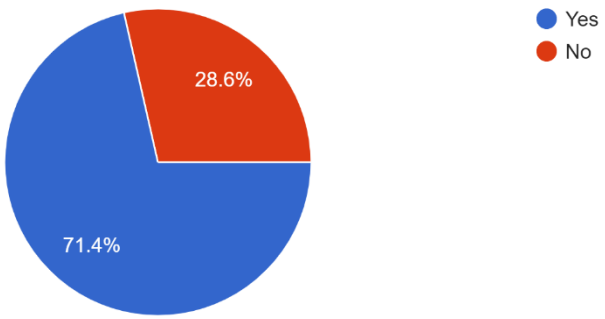
Does your employer offer subsidies towards using public transportation?

29 responses



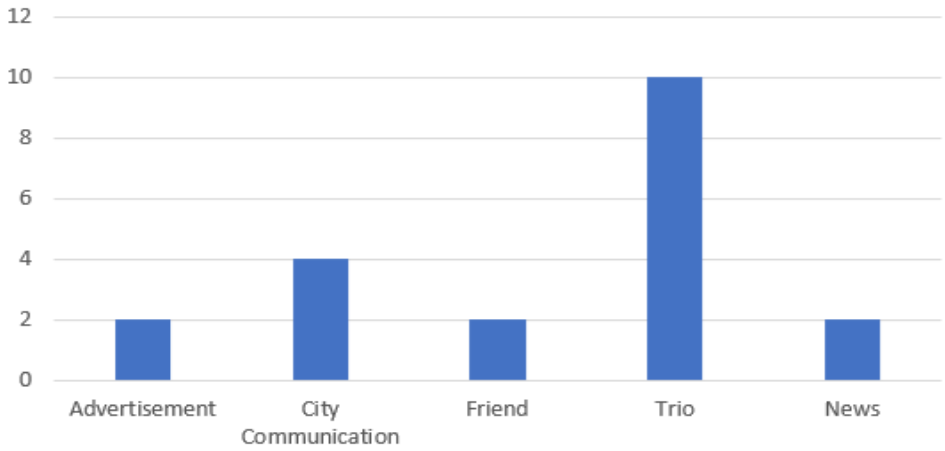
Have you heard of Newton's ridesharing service, NewMo?

28 responses



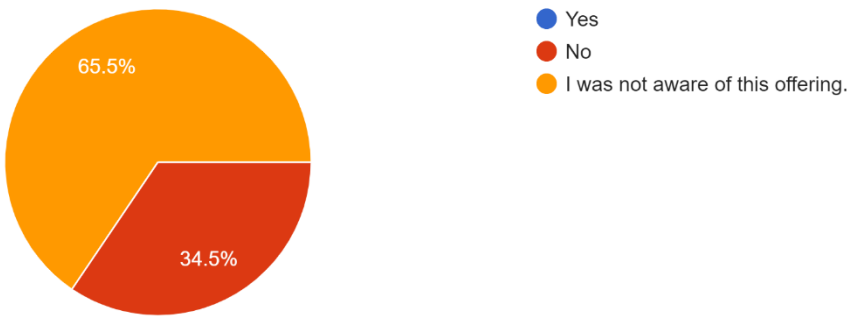
If you have heard of NewMo, how did you hear about it?

20 responses



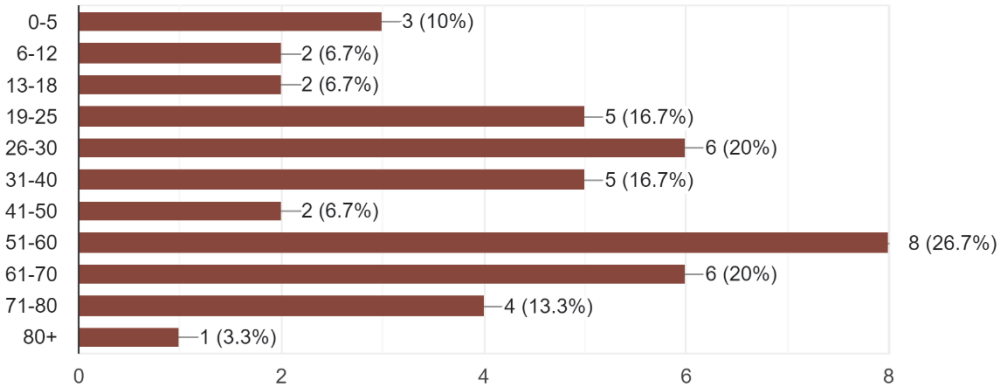
Have you taken advantage of Trio's public transportation reimbursement program?

29 responses



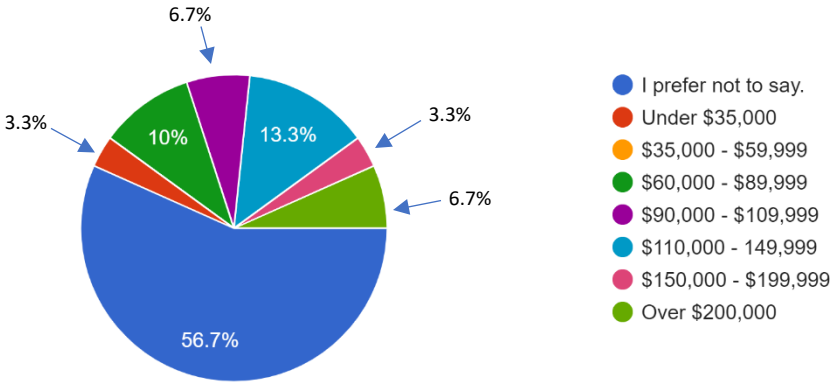
What is the age range of those that live in your unit? Check all that apply.

30 responses



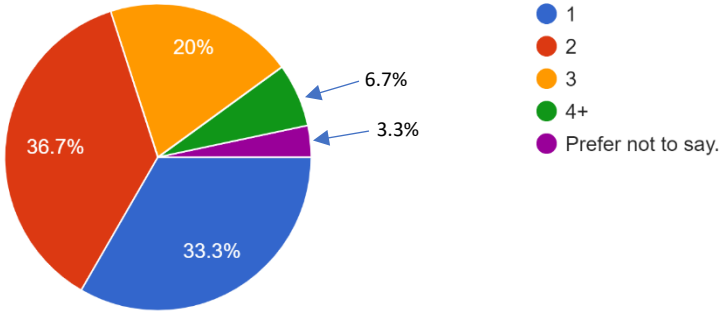
What is the range of your annual household income? Please include the annual income for all adults in the household 18 years or older.

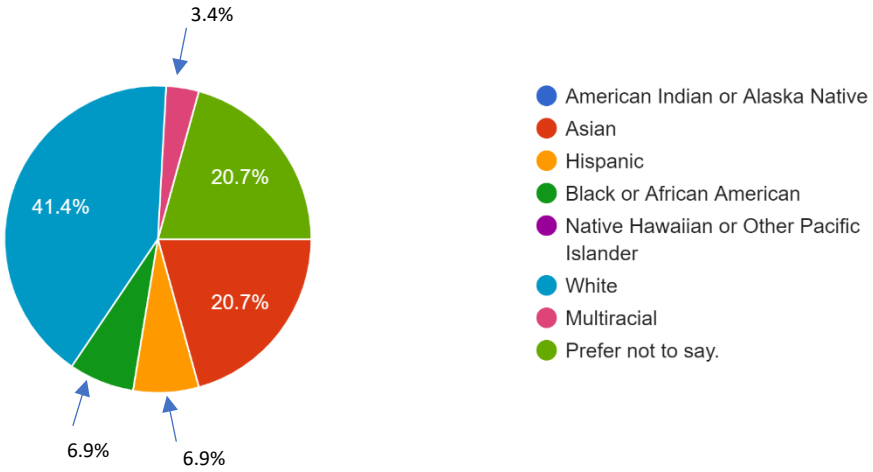
30 responses



How many individuals make up your household (including you)?

30 responses



What is your race/ethnicity?

29 responses