



To: Town of Mendon Planning Board
20 Main Street
Mendon, Massachusetts

Cc: John Nenart
The Meehan Group
P.O. Box 444
Mendon, Massachusetts 01756

From: Rob Woodland, PE
Courtney Sudak, PE

Date: July 10, 2020

Subject: Traffic Assessment
Tractor Trailer Parking Lot
5 Harrington Street, Mendon, MA

INTRODUCTION

Tetra Tech has conducted a traffic assessment of the existing tractor trailer parking lot located at 5 Harrington Street in Mendon, Massachusetts. As part of this assessment, Tetra Tech collected hourly and daily vehicle counts at the site to determine the existing vehicle trip generation at the tractor trailer parking facility. This memorandum provides a summary of our findings.

PROJECT DESCRIPTION

The project site consists of approximately 3.5 ± acres located at 5 Harrington Street in Mendon, Massachusetts. Harrington Street is a two-lane, two-way, dead-end roadway under local jurisdiction. In addition to the project site, Harrington Street provides access to the Mendon Community Church, a single-family home, a cell tower as well as secondary access to two properties on Milford Street (Route 16) – a single-family home (71 Milford Street) and an apartment building (69 Milford Street). Harrington Street provides access to the regional roadway system via the unsignalized intersection of Route 16 (Milford Street) and Harrington Street. The site location is shown in Figure 1.

The project site had previously received approvals for a contractor storage facility "Harrington Street Storage" consisting of eleven, one-story, 2,400 square foot, individual storage units for a total of 26,400 square feet of development. The Harrington Street Storage facility did not move forward.

Currently, the site supports tractor trailer parking for Amazon and is open 24 hours per day with trucks generally arriving/departing between the hours of 5:30 AM and 10:00 PM. Access to the site is provided by two unsignalized driveways on the west side of Harrington Street. As currently envisioned, the site could accommodate storage of up to approximately 98 trailers.

TRAFFIC DATA COLLECTION

To establish the vehicle trip generating characteristics of the existing tractor trailer parking facility, automatic traffic recorder counts were collected on Harrington Street just north of the northerly site driveway for a 48-hour period

(from Tuesday, June 9, 2020 through Wednesday, June 10, 2020). Traffic counts were collected using Miovision Video Camera Collection devices which were then reviewed to isolate the tractor trailer truck activity at the project site from traffic generated by the other uses on Harrington Street. The tractor trailer truck activity includes tractor cabs picking up and dropping off trailers at the site. The tractor trailer traffic count data is provided in the Appendix of this report. The observed site truck trip generation over the two-day period is summarized in Table 1.

VEHICLE TRIP GENERATION SUMMARY

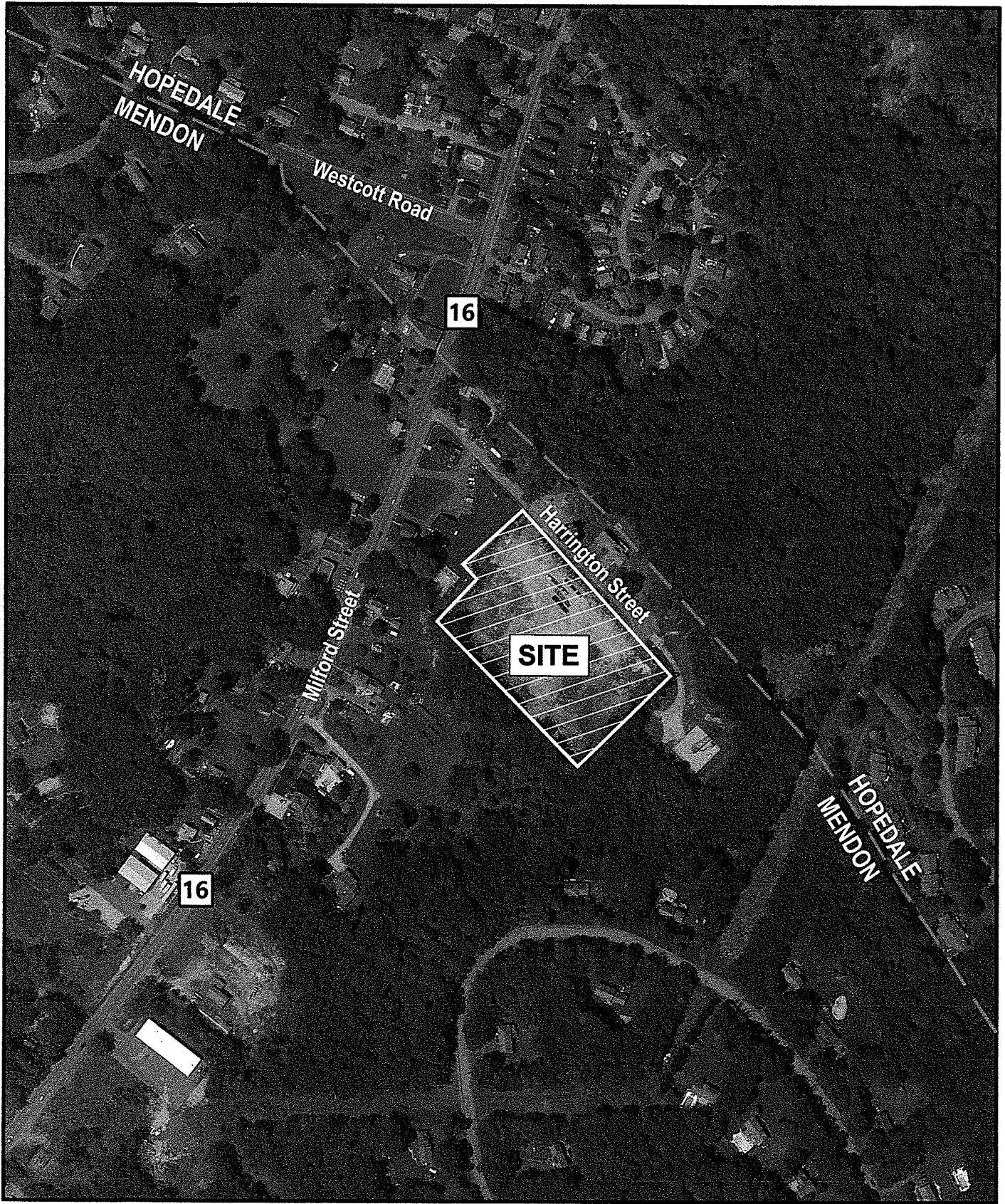
As shown in Table 1, over the two-day period reviewed, the tractor trailer parking facility generated between 26 and 28 truck trips per day. During the typical weekday morning commuter peak period (from 7 AM to 9 AM), the site generated no truck trips on Tuesday, June 9, 2020 and only two truck trips (one entering trip and one exiting trip) on Wednesday, June 10, 2020. During the typical weekday evening commuter peak period (from 4 PM to 6 PM), the site generated no truck trips on Tuesday, June 9, 2020 and only four truck trips (two entering trips and two exiting trips) on Wednesday, June 10, 2020.

Table 1 – Observed Site Tractor Trailer Trip Generation Analysis

Time Period	Number of Trips	
	Tuesday June 9, 2020	Wednesday June 10, 2020
Weekday Daily		
Enter	13	14
<u>Exit</u>	<u>13</u>	<u>14</u>
Total	26	28
Weekday AM Commuter Peak Period (From 7 AM to 9 AM)		
Enter	0	1
<u>Exit</u>	<u>0</u>	<u>1</u>
Total	0	2
Weekday PM Commuter Peak Period (From 4 PM to 6 PM)		
Enter	0	2
<u>Exit</u>	<u>0</u>	<u>2</u>
Total	0	4

CONCLUSIONS

The existing tractor trailer parking facility currently generates between 26 to 28 weekday daily trips on a typical weekday with minimal trips during the typical weekday morning and weekday evening commuter peak hours. These minor traffic increases are comparable, if not significantly lower than, the vehicle trips that would have been generated by the previously-approved contractor storage facility, and are not anticipated to have a significant impact on future traffic operations on the surrounding area roadways.



5 Harrington Street
Mendon, Massachusetts

Site Locus

FIGURE

1

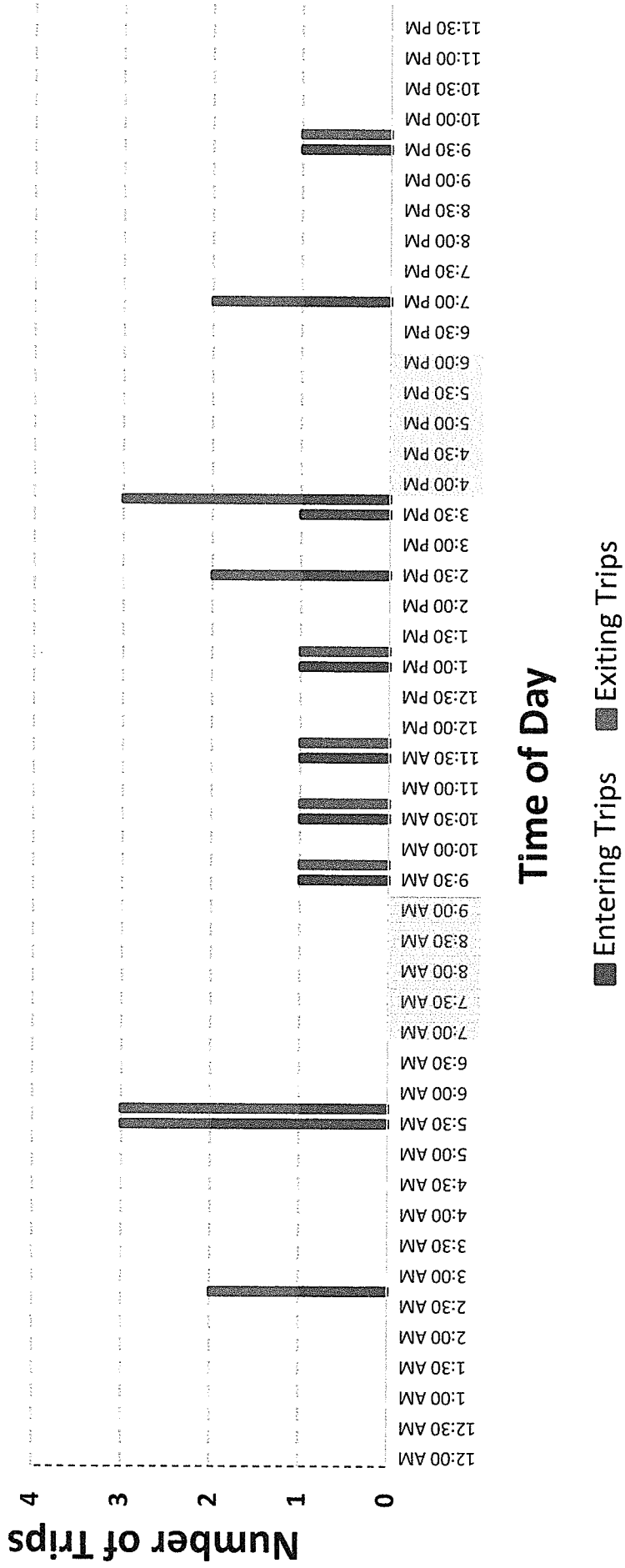


Appendix A
Traffic Count Data

Truck Delivery Trips

5 Harrington Street - Mendon, MA

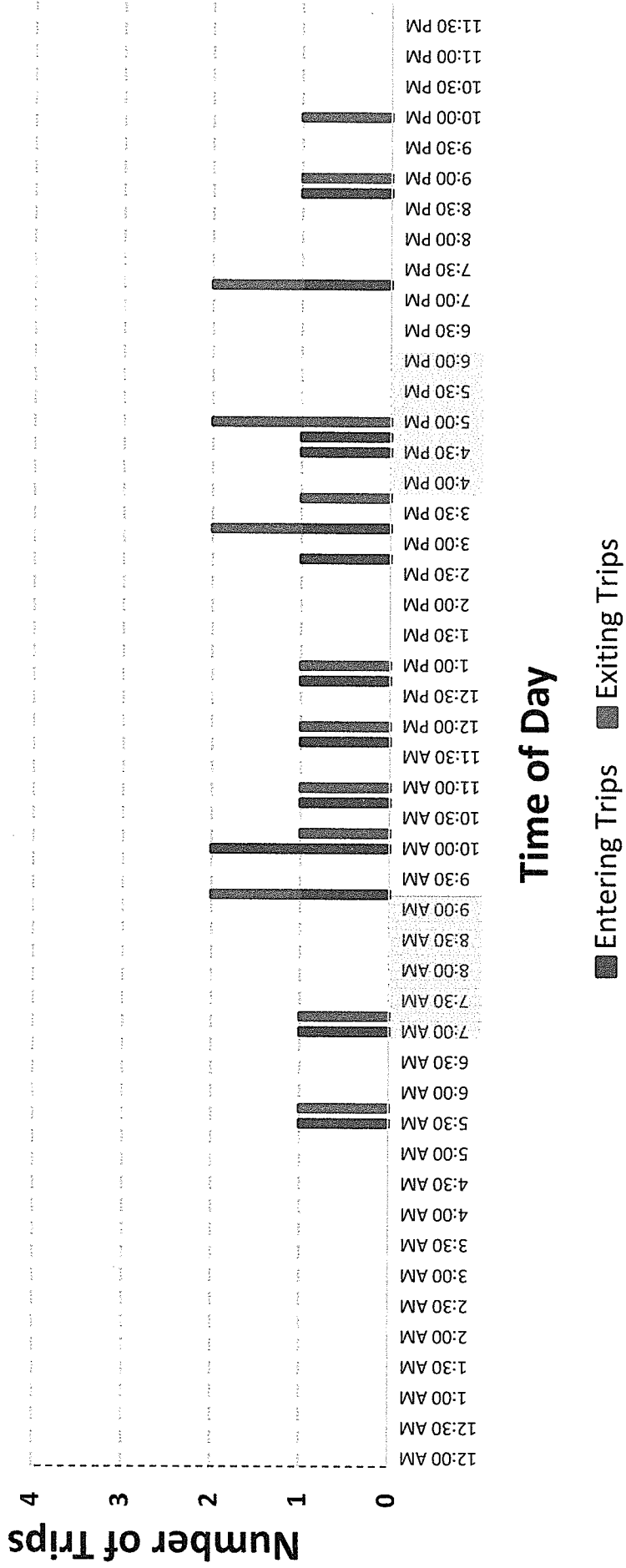
(Tuesday, June 9, 2020)



Truck Delivery Trips

5 Harrington Street - Mendon, MA

(Wednesday, June 10, 2020)



TRACTOR TRAILER TRIPS

Count Date: Tuesday, June 9, 2020
 Direction: SB

Start Time	Cars	Single Unit Heavy	Multi Unit Heavy	Total	Hourly Total
12:00 AM	0	0	0	0	
12:15 AM	0	0	0	0	
12:30 AM	0	0	0	0	
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	1	1	1
3:00 AM	0	0	0	0	1
3:15 AM	0	0	0	0	1
3:30 AM	0	0	0	0	1
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	2	0	2	2
5:45 AM	0	1	0	1	3
6:00 AM	0	0	0	0	3
6:15 AM	0	0	0	0	3
6:30 AM	0	0	0	0	3
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	1	1	1
9:45 AM	0	0	0	0	1
10:00 AM	0	0	0	0	1
10:15 AM	0	0	0	0	1
10:30 AM	0	0	1	1	1
10:45 AM	0	0	0	0	1
11:00 AM	0	0	0	0	1
11:15 AM	0	0	0	0	1
11:30 AM	0	0	1	1	1
11:45 AM	0	0	0	0	1
12:00 PM	0	0	0	0	1
12:15 PM	0	0	0	0	1
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	1	1	1
1:15 PM	0	0	0	0	1
1:30 PM	0	0	0	0	1
1:45 PM	0	0	0	0	1
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	1	1	1
2:45 PM	0	0	0	0	1
3:00 PM	0	0	0	0	1
3:15 PM	0	0	0	0	1
3:30 PM	0	0	1	1	1
3:45 PM	0	0	1	1	2
4:00 PM	0	0	0	0	2
4:15 PM	0	0	0	0	2
4:30 PM	0	0	0	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
7:00 PM	0	1	0	1	1
7:15 PM	0	0	0	0	1
7:30 PM	0	0	0	0	1
7:45 PM	0	0	0	0	1
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	1	1	1
9:45 PM	0	0	0	0	1
10:00 PM	0	0	0	0	1
10:15 PM	0	0	0	0	1
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	0	0
Total				13	

TRACTOR TRAILER TRIPS

Count Date: Tuesday, June 9, 2020
 Direction: NB

Start Time	Cars	Single Unit Heavy	Multi Unit Heavy	Total	Hourly Total
12:00 AM	0	0	0	0	
12:15 AM	0	0	0	0	
12:30 AM	0	0	0	0	
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	1	0	1	1
3:00 AM	0	0	0	0	1
3:15 AM	0	0	0	0	1
3:30 AM	0	0	0	0	1
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	1	1	1
5:45 AM	0	0	2	2	3
6:00 AM	0	0	0	0	3
6:15 AM	0	0	0	0	3
6:30 AM	0	0	0	0	3
6:45 AM	0	0	0	0	2
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	1	1	1
10:00 AM	0	0	0	0	1
10:15 AM	0	0	0	0	1
10:30 AM	0	0	0	0	1
10:45 AM	0	1	0	1	1
11:00 AM	0	0	0	0	1
11:15 AM	0	0	0	0	1
11:30 AM	0	0	0	0	1
11:45 AM	0	1	0	1	1
12:00 PM	0	0	0	0	1
12:15 PM	0	0	0	0	1
12:30 PM	0	0	0	0	1
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	1	1	1
1:30 PM	0	0	0	0	1
1:45 PM	0	0	0	0	1
2:00 PM	0	0	0	0	1
2:15 PM	0	0	0	0	0
2:30 PM	0	0	1	1	1
2:45 PM	0	0	0	0	1
3:00 PM	0	0	0	0	1
3:15 PM	0	0	0	0	1
3:30 PM	0	0	0	0	1
3:45 PM	0	1	1	2	2
4:00 PM	0	0	0	0	2
4:15 PM	0	0	0	0	2
4:30 PM	0	0	0	0	2
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
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7:30 PM	0	0	0	0	1
7:45 PM	0	0	0	0	1
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	1	0	1	1
10:00 PM	0	0	0	0	1
10:15 PM	0	0	0	0	1
10:30 PM	0	0	0	0	1
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	0	0
Total				13	

TRACTOR TRAILER TRIPS

Count Date: Wednesday, June 10, 2020
 Direction: SB

Start Time	Cars	Single Unit Heavy	Multi Unit Heavy	Total	Hourly Total
12:00 AM	0	0	0	0	
12:15 AM	0	0	0	0	
12:30 AM	0	0	0	0	
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	1	0	1	1
5:45 AM	0	0	0	0	1
6:00 AM	0	0	0	0	1
6:15 AM	0	0	0	0	1
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	1	1	1
7:15 AM	0	0	0	0	1
7:30 AM	0	0	0	0	1
7:45 AM	0	0	0	0	1
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	0	1	1	1
9:30 AM	0	0	0	0	1
9:45 AM	0	0	0	0	1
10:00 AM	0	1	1	2	3
10:15 AM	0	0	0	0	2
10:30 AM	0	0	0	0	2
10:45 AM	0	0	1	1	3
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11:15 AM	0	0	0	0	1
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8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	1	0	1	1
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9:15 PM	0	0	0	0	1
9:30 PM	0	0	0	0	1
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	0	0
Total				14	

TRACTOR TRAILER TRIPS

Count Date: Wednesday, June 10, 2020
 Direction: NB

Start Time	Cars	Single Unit Heavy	Multi Unit Heavy	Total	Hourly Total
12:00 AM	0	0	0	0	
12:15 AM	0	0	0	0	
12:30 AM	0	0	0	0	
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	1	1	1
6:00 AM	0	0	0	0	1
6:15 AM	0	0	0	0	1
6:30 AM	0	0	0	0	1
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7:00 AM	0	0	0	0	0
7:15 AM	0	1	0	1	1
7:30 AM	0	0	0	0	1
7:45 AM	0	0	0	0	1
8:00 AM	0	0	0	0	1
8:15 AM	0	0	0	0	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	1	0	1	1
9:30 AM	0	0	0	0	1
9:45 AM	0	0	0	0	1
10:00 AM	0	0	0	0	1
10:15 AM	0	0	1	1	1
10:30 AM	0	0	0	0	1
10:45 AM	0	0	0	0	1
11:00 AM	0	1	0	1	2
11:15 AM	0	0	0	0	1
11:30 AM	0	0	0	0	1
11:45 AM	0	0	0	0	1
12:00 PM	0	0	1	1	1
12:15 PM	0	0	0	0	1
12:30 PM	0	0	0	0	1
12:45 PM	0	0	0	0	1
1:00 PM	0	0	1	1	1
1:15 PM	0	0	0	0	1
1:30 PM	0	0	0	0	1
1:45 PM	0	0	0	0	1
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	0	0	0
2:45 PM	0	0	0	0	0
3:00 PM	0	0	0	0	0
3:15 PM	0	0	1	1	1
3:30 PM	0	0	0	0	1
3:45 PM	0	1	0	1	2
4:00 PM	0	0	0	0	2
4:15 PM	0	0	0	0	1
4:30 PM	0	0	0	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	1	1	2	2
5:15 PM	0	0	0	0	2
5:30 PM	0	0	0	0	2
5:45 PM	0	0	0	0	2
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
7:00 PM	0	0	0	0	0
7:15 PM	0	0	1	1	1
7:30 PM	0	0	0	0	1
7:45 PM	0	0	0	0	1
8:00 PM	0	0	0	0	1
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	1	1	1
9:15 PM	0	0	0	0	1
9:30 PM	0	0	0	0	1
9:45 PM	0	0	0	0	1
10:00 PM	0	1	0	1	1
10:15 PM	0	0	0	0	1
10:30 PM	0	0	0	0	1
10:45 PM	0	0	0	0	1
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	0	0
Total				14	