

TO: The St. Lawrence Health System (SLHS)  
 Canton-Potsdam Hospital (CPH)

FROM: Clarkson CEM Consulting Group (C3G)

SUBJECT: Traffic Count Report for the intersection at 6119 US-11, Canton, NY 13617

DATE: December 12, 2017

This Technical Memorandum is provided in conjunction with the services proposed to SLHS in a proposal titled “Traffic Data Collection” dated 30 October 2017.

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**Scope of Effort**

C3G performed field data collection of traffic counts and vehicle types for turning movements at the existing intersection of the CPH driveway and U.S. Route 11 located at 6119 US-11, Canton, NY 13617.



Figure 1, Location of Intersection (intersection in red circle)

The turning movements recorded were as follows:

- North Bound (NB) 11 left to driveway
- South Bound (SB) 11 right to driveway
- Route 11 NB through traffic
- Driveway right to SB 11
- Driveway left to NB 11
- Route 11 SB through traffic

Data was collected from 6:30 am to 6:30 pm on three days: Wednesday 15 November 2017, Friday 17 November 2017, and Monday 4 December 2017<sup>1</sup>. The decision to take counts on a Monday, a Wednesday, and a Friday, was made by the SLHS based upon the fact that Tuesdays and Thursdays were days in which primary medical staff (doctors) did not have appointments, and thus would have reduced traffic demand.

The counts were taken from 6:30 am to 6:30 pm and included counting through movements on US Route 11 as well as turns into and out of the SLHS facility location driveway. The collectors noted counts for passenger cars as well as trucks, buses, and agricultural vehicles. Additionally, pursuant to the proposal submitted to SLHS, the collectors noted near-miss incidents as defined by the FHWA standards.

Counts were documented through use of tally sheets (example enclosed) and then compiled into a spreadsheet. Counts were segmented into 15 minute increments, which was in excess of the proposed 30 minute increments as traffic flows made 15 minute increments more appropriate.

## **Primary Findings**

### ***Traffic Volume***

The following table summarizes the traffic volumes based on the traffic counts taken by the C3G student interns:

#### **Three Day Summary**

		<b>Towards Canton (Southbound)</b>					
		<b>Straight Southbound RT 11</b>			<b>Right Turn into Hospital</b>		
		<b>Cars</b>	<b>Trucks</b>	<b>Total</b>	<b>Cars</b>	<b>Trucks</b>	<b>Total</b>
Wednesday	15-Nov-17	4011	405	4416	132	2	134
Friday	17-Nov-17	4379	388	4767	100	3	103
Monday	4-Dec-17	4077	310	4387	133	3	136

  

		<b>Towards Potsdam (NorthBound)</b>					
		<b>Straight Northbound RT 11</b>			<b>Left Turn into Hospital</b>		
		<b>Cars</b>	<b>Trucks</b>	<b>Total</b>	<b>Cars</b>	<b>Trucks</b>	<b>Total</b>
Wednesday	15-Nov-17	4071	382	4453	273	7	280
Friday	17-Nov-17	4441	349	4790	172	3	175
Monday	4-Dec-17	4285	284	4569	208	0	208

  

		<b>From SLHS Facility at 6119 US-11, Canton, NY 13617</b>					
		<b>Left Turn towards Potsdam (NB)</b>			<b>Right Turn towards Canton (SB)</b>		
		<b>Cars</b>	<b>Trucks</b>	<b>Total</b>	<b>Cars</b>	<b>Trucks</b>	<b>Total</b>
Wednesday	15-Nov-17	135	4	139	239	5	244
Friday	17-Nov-17	95	2	97	160	3	163
Monday	4-Dec-17	131	0	131	189	5	194

**Table 1, Traffic Count Summary**

<sup>1</sup> Data was not collected on the 20<sup>th</sup> of November as a result of weather conditions or on 27 November as a result of student intern availability.

As can be seen in Appendix A, the daily average number of turns into the SLHS facility is approximately 345 vehicles, and the average number of movements out of the facility is approximately 322 vehicles (during the period from 6:30 am to 6:30 pm). The traffic counts indicate that turning movements into the SLHS facility and out of the facility (side street volume) accounts for approximately 7% of the main road volume in both the northbound or southbound direction on US Route 11.

### ***Near Misses***

Near misses were prevalent during our data collection periods. Three (3) near misses were recorded on all three days, for a total of nine (9) near miss incidents during the observation periods. Five (5) of these near misses were in the through direction, while four (4) were as a result of movements out of the SLHS facility. Given the traffic volumes into and out of the facility, this frequency of incidents represents approximately one half of one percent (0.5%) of the movements into and out of the SLHS facility.

### **Other Documentation**

Attached herewith are several appendices for the use of SLHS for both record keeping and for future use:

1. Appendix A: Spreadsheet of tabulated data from the traffic collection observations
2. Appendix B: A copy of a blank tally sheet used for collection
3. Appendix C: Tally sheets from 15 November 2017
4. Appendix D: Tally sheets from 17 November 2017
5. Appendix E: Tally sheets from 4 December 2017

### **Limits of Liability and Rights held by the Investigator:**

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### **Acknowledgements**

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Appendix A: Spreadsheet of tabulated data from the traffic collection observations

Appendix B: A copy of a blank tally sheet used for collection

Appendix C: Tally sheets from 15 November 2017

Appendix D: Tally sheets from 17 November 2017

Appendix E: Tally sheets from 4 December 2017