



260 West Exchange Street  
 Suite 300  
 Providence, Rhode Island 02903  
 tel: 401-751-5360  
 fax: 401-274-2173

November 23, 2015

Mr. Eric Offenberg, P.E.  
 Director of Engineering  
 Rhode Island Turnpike and Bridge Authority  
 One East Shore Road  
 P.O. Box 437  
 Jamestown, RI 02835

**Subject: On-Call Tolling Consultant Services Contract No. 15-13 (Pending)**  
***Task Order No.1- Traffic Counts at Sakonnet, Mount Hope and Jamestown Bridges***  
***Traffic data Collection Memorandum***

Dear Mr. Offenberg:

In accordance with the scope of work for Task Order No. 1, dated September 9, 2015 and amended by Project Change Memorandum No. 1 dated November 13, 2015, CDM Smith Inc. (CDM Smith) is pleased to present the Rhode Island Turnpike and Bridge Authority (RITBA) with this technical memorandum summarizing the results of the traffic data collection performed on the Sakonnet, Mount Hope and Jamestown Bridges.

CDM Smith’s sub-consultant, Accurate Counts, placed automatic traffic recorders (ATRs) on the bridges on September 18, 2015, collecting data for a 6-week time period until October 26, 2015.

In order to determine the annualized average daily traffic (AADT) on each bridge, CDM Smith applied the most recent Rhode Island Department of Transportation (RIDOT) seasonal adjustment factors<sup>1</sup> to the ATR data collected. These seasonal adjustment factors account for a peak in traffic volumes in the summer months (April thru August). The ADT collected in the fall of 2015 were adjusted accordingly to determine the AADT as illustrated in Table 1.

<b>Table 1 Annualized Average Daily Traffic</b>				
<b>Bridge</b>	<b>AADT(vehicles per day)</b>		<b>AADT (vehicles per day)</b>	
	<b>Eastbound</b>	<b>Westbound</b>	<b>Northbound</b>	<b>Southbound</b>
Mount Hope			9,170	9,530
Jamestown	17,260	17,915		
Sakonnet	20,380	20,340		

<sup>1</sup> RIDOT Urban 2013 Seasonal (MADT) Adjustment Factors



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Table 2 illustrates the total estimated yearly volume by direction on each of the bridges based on the AADT.

<b>Table 2 Estimated Yearly Volume (by direction)</b>				
<b>Bridge</b>	<b>Total Estimated Volume (vehicles per year)</b>		<b>Total Estimated Volume (vehicles per year)</b>	
	<b>Eastbound</b>	<b>Westbound</b>	<b>Northbound</b>	<b>Southbound</b>
Mount Hope			3,344,850	3,479,300
Jamestown	6,301,200	6,540,440		
Sakonnet	7,438,900	7,425,200		

Table 3 illustrates the total estimated yearly volume on each of the bridges based on the AADT.

<b>Table 3 Estimated Yearly Volume</b>		
<b>Bridge</b>	<b>Total Estimated Volume (vehicles per year)</b>	<b>Total Estimated Volume (vehicles per year)</b>
Mount Hope		6,824,150
Jamestown	12,841,640	
Sakonnet	14,864,100	

We trust this memorandum has provided you with the necessary information required. Should you have any questions/comments or would like to schedule a meeting to discuss this memo please do not hesitate to contact me at 401-457-0335.

Regards,



Joseph M. Bambara, P.E.  
 Senior Project Engineer  
 CDM Smith Inc.

cc: Kevin Johnson, CDM Smith  
 Lisa Sherman, CDM Smith

