



Memorandum

To: Community Development

From: Public Works Department

Date: 08/24/2017

Subject: Red Sandstone Elementary School Existing Traffic Summary

Traffic counts were performed May 4, 2017 at the school to analyze the existing traffic conditions at the schools access to the N Frontage Road. Additional existing traffic counts at the Red Sandstone Elementary school were performed on 8/23/2017 during the peak hour of student drop off in the am (7:30-8:30) and the pick up in the pm (2:30-3:30). The counts taken in August showed similar volumes to the counts taken in May 2017. The analysis performed by the Town's Traffic Engineering consultants showed that the access currently operates at a level of service (LOS) A in all movements, LOS A is a delay of less than 10 seconds. Visual observations during counts taken August 23 showed minimal delays for all turning movements confirming the access operates currently at a LOS A. The largest queue of vehicles occurred during the am drop off and extended from the drop off area back to about half down the access road. Queues exiting during both the morning and afternoon never reached more than 4 vehicles. There was no impact to busses accessing the bus lanes for either the school or Town busses. The anticipated peak load and dump of the proposed parking structure is outside of the hours of student drop off and pick up, therefore the level of service for turning movements at the access is projected to remain a LOS A.

Attachments:

May 4, 2017 Traffic Count Summary
August 23, 2017 Traffic Count Summary
Bar graph of Traffic activity

LEGEND

XXX(XXX)[XXX] = AM(Mid Afternoon)[PM]
Peak Hour Traffic Volumes

NOTE: Data collected on Thursday, May 4, 2017
except where noted

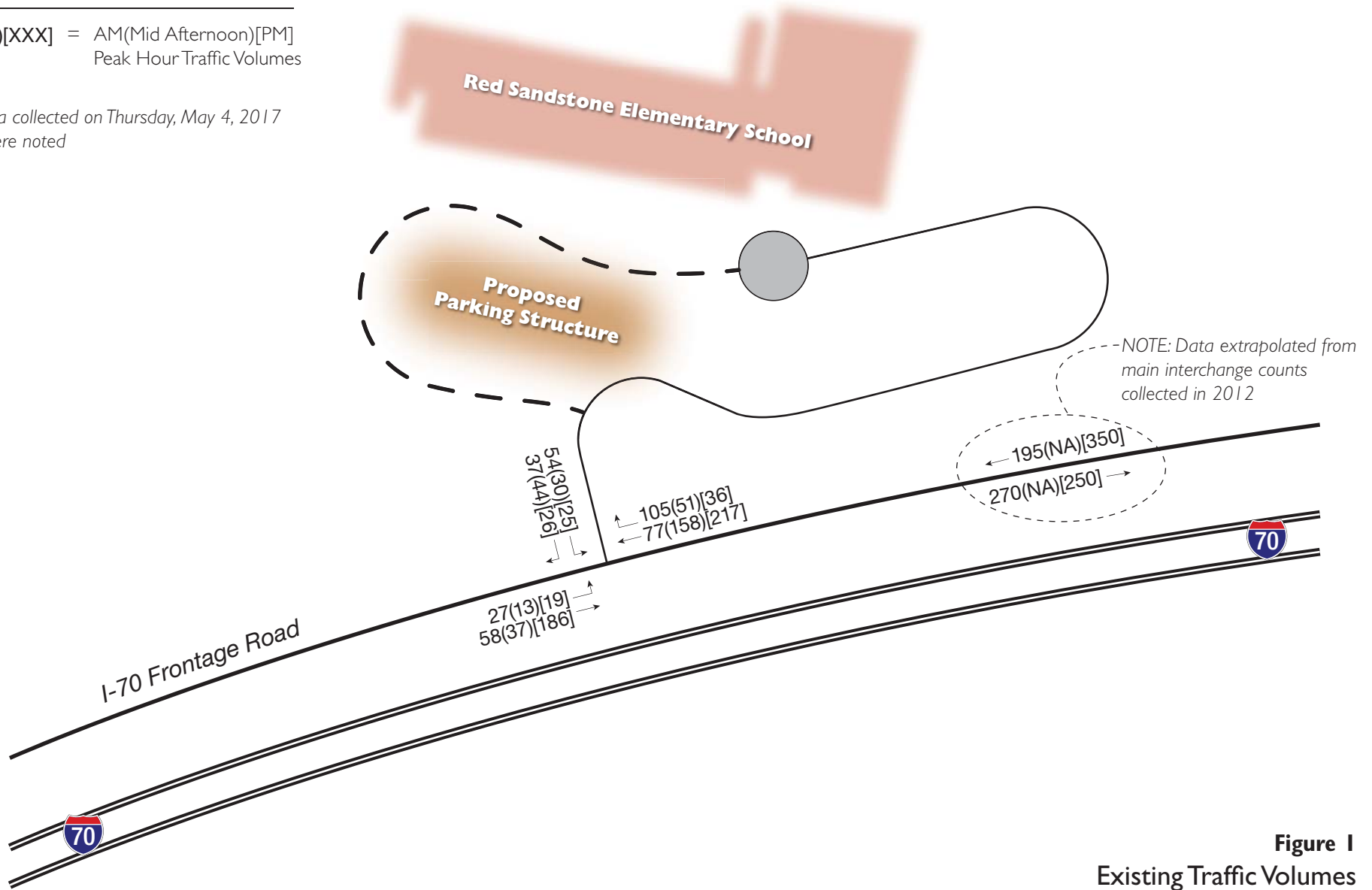


Figure 1
Existing Traffic Volumes



Red Sandstone Elem

Traffic Counts

08/23/2017

AM

Frontage Road

	EB	WB	LT In	RT In	Lt Out	Rt Out	Peds/Bikes
7:30	7	11	5	28	4	4	2
7:45	20	33	11	64	30	34	2
8:00	15	22	2	15	14	19	1
8:15	15	34	1	13	4	4	5
			19	120	52	61	

Peak concentration of vehicle dropoff 7:35-8:05

PM

Frontage Road

	EB	WB	LT In	RT In	Lt Out	Rt Out	
2:30	16	62	2	14	0	6	0
2:45	17	63	6	35	13	17	3
3:00	20	35	0	8	18	19	2
3:15	8	43	0	2	2	4	0
			8	59	33	46	

Peak concentration of vehicle pick up 2:40-3:10

WINTER PEAK BUS SCHEDULE

