
Memorandum

The City of Traverse City
Engineering Department



TO: Tim Lodge, P.E., City Engineer
FROM: Colby Winter, Seasonal Engineering Aide
DATE: Thursday, June 23, 2016
SUBJECT: Front St and Hall St Temporary Four-way Stop

City Engineering performed multiple studies in regards to the attitudes and safety for the W. Front St and Hall St intersection. The city recently installed a temporary stop sign on W. Front St. This study was performed in the afternoon on Thursday, June 23, 2016. For this memorandum, rolling through a stop is defined as making an attempt to slow down at the intersection, but not making a legal stop. Blowing through a stop is defined as making no attempt to slow down at the stop sign

While observing stop volume at the newly erected stop sign on W. Front St at the Hall St Intersection, 509 vehicles entered the intersection from W Front St. City Engineering observed 410 (80.6%) of those vehicles either roll-through or blow through the stop sign. 50 vehicles (1%) made absolutely no attempt at stopping at the stop sign and either carried there speed or accelerated through the intersection. BATA busses made up 15 of the 509 vehicles that entered the intersection of W. Front St. All 15 BATA busses (100%) failed to complete a legal stop at the stop sign on W. Front St at Hall St. During the duration of the study, 21 pedestrians crossed W Front St by foot. It should be noted that there was widespread rage for the drivers at the intersection, with 3 drivers making public and vulgar hand gestures.

Turning queues at the intersection of W. Front St and Hall St were generally ignored for left turns from Hall St onto W Front St and from left and right turns from Wadsworth St onto W Front St. Turning left from Hall St, the average amount of vehicles that skipped the stop and cut-off the Hall St left-turning drivers was 3 vehicles. On Wadsworth St, the average amount of vehicles that skipped the stop and cut-off the Wadsworth St left-turning drivers was 2 vehicles and for Wadsworth St right-turning drivers was 1 vehicle.

The average time it took to drive from to Elmwood Ave Union St on W. Front St was 0:04:08, while going westbound (Union St to Elmwood Ave) was 0:04:38. Westbound traffic was heavier with travel times as long as 0:06:15. Traffic for the Division St and W Front St signal going westbound was backed up as far as ½ of a block East of Hall St.

Encl.: Engineerings Notes and Tallies