



Subject Independent Review of *Traffic Impact Study for Proposed Station Village – Station Road Access Impacts*

To John Ruschke

From Jonathan Sowinski

Our reference 381451

Office Buffalo, NY

Date August 29, 2017

Your reference Proposed Station Village, Township of Denville, Morris County, NJ

Technical notes

Mott MacDonald was asked to review the *Traffic Impact Study for Proposed Station Village* dated February 2, 2017 prepared by Dynamic Traffic. In addition to the review of the report Mott MacDonald independently analyzed the Impacts of including ingress and egress to Station Road from the Development Site based on public concern that it may contribute to unacceptable queues and delays.

Mott Macdonald created a Synchro model based on the Concept Plan with Alternative Ingress dated 3/27/2017 and the traffic volumes and distributions presented in the *Traffic Impact Study for Proposed Station Village*. The model closely matched that of what was included in Appendix C of the Study Future Build Scenario with similar results indicating minimal impacts due to the added access and traffic onto Station Road for the AM and PM peak hour.

The proposed egress from the site to Station Road is stop controlled with free movement given to Station Road traffic. Under this configuration the exiting traffic is required to wait for appropriate gaps in the adjacent street traffic before proceeding to exit. If existing congestion prevent them from exiting they would not contribute further to the queue as they must wait for traffic to dissipate before exiting. The forecast exiting volumes are not anticipated to result in noticeable changes to the adjacent intersections.

Furthermore, a sensitivity analysis was performed by increasing the entering and exiting traffic volumes to a total of 40 vehicles per hour (more than the anticipated peak hour trips generated from the proposed development) leaving and entering via the Station Road access. This resulted in minimal degradation to the Level of Service of Station Road and its intersections at Main Street and Lackawanna Avenue/Parks Road.

In conclusion, the independent analysis of the Alternative Access on Station Road corresponds with that of which was originally reported in the *Traffic Impact Study for Proposed Station Village* dated February 2, 2017, that the Level of Service of Station Road and its intersections under the Future Build scenarios will acceptable and impacts are anticipated to be minimal.