

City of Rochester Hills
Department of Public Service

Traffic Study Summary
Stop & No Thru Trucks (over 8,000 GVW) Signage Installation
Supervisor's Plat No. 9 Subdivision
Austin Avenue at Devondale Road – Section 29

August 25, 2009

Background

A traffic study was recently performed to determine the type of regulatory traffic control warranted as established by Michigan Manual Uniform Traffic Control Devices (MMUTCD) for the newly constructed extension of Austin Avenue into Devondale Road. This study was initiated by the July completion of the City's project to extend Austin into Devondale. The road was extended as part of a development project within the Local Development Finance Authority District (LDFA).

The following is a recommendation for the type of regulatory traffic control device for this intersection:

- **Intersection of Austin Avenue at Devondale Road:**
The intersection safe corner sight distance was reviewed to determine whether a yield or stop sign control is warranted. When traveling WB on Austin at its intersection approach with Devondale, the following available sight distances were observed in the field:
 - Looking Northerly – 372 feet (restricted by horizontal curvature and slight crest in road).
 - Looking Southerly – 645 feet (restricted by horizontal curvature).

Recommended safe sight distances are as follows:

- 25 MPH Road – 280 feet
- 30 MPH Road – 335 feet

The existing roadway is posted at 25 MPH. As policy, City staff reviews safe corner sight distances at 5 MPH above the posted speed limit. Safe corner sight distances exist at the 35 MPH criteria.

Recommendation: Austin Avenue YIELD for Devondale Road.

Additionally, City staff recommends restricting through truck movements along Devondale between Auburn and Austin for vehicles weighing over 8,000 lbs gross vehicle weight. Since this segment is gravel and primarily residential in nature, staff's recommends that signage is necessary to prohibit commercial truck traffic over 8,000 GVW from using this stretch of roadway. This will assist with preserving the integrity of the gravel road surface and minimize dust issues.

Action Requested

Request the Advisory Traffic and Safety Board (ATSB) to support having the TCO No. **YS-104** and **WT-38** issued, and that the ATSB recommend that the City Council approve these TCOs until either rescinded or superseded.

Paul G. Shumejko, P.E., PTOE
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