

City of Rochester Hills
Department of Public Service

**Crash History Analysis
For Multi-way Stop Sign Installations
Along Grandview and Sandy Ridge Drive**

February 23, 2004

Background

The next step in performing the traffic study was to review whether or not **Crash History Warrants** are met for the Multi-way “Stop Signs” that were installed along Grandview at its intersection with Ridgefield Ct. & Sandy Ridge Dr., and at the intersection of Sandy Ridge Drive & Fairmont Dr. The warrants for the installation of Multi-way “Stop Signs” are based upon the criteria as set forth by the **Michigan Manual of Uniform Traffic Control Devices (MMUTCD)**.

Summary

The following criteria are reviewed, as outlined by the **MMUTCD**, when analyzing traffic crash history warrants for **Multi-way “Stop Sign”** installation:

Requirement: The MMUTCD requires that a **minimum of five (5) crashes** occurred at the intersection **during a twelve (12) month period**.

Results:

Traffic crash data was obtained during the period of **January 1, 2000 through December 31, 2002**; a copy is attached.

- a. **Grandview Dr. and Ridgefield Ct:** There was one (1) fixed object collision.
- b. **Grandview Dr. and Sandy Ridge Dr:** There was one (1) collision identified as other. Vehicle hit snow bank trying to avoid icy area on road.
- c. **Sandy Ridge Dr. and Fairmont Ct:** There was one (1) parked vehicle collision.

Conclusion

Based upon the summary above, the crash history warrants **are not** met and do not justify for the Multi-way “Stop Signs” along Grandview Dr. and Sandy Ridge Dr. to remain in place.

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