

**PART 540 - FIELD SURVEYS**

**MI 540.2 Format**

A. Format and minimum requirements for Michigan are as follows:

The format and minimum requirements for engineering notekeeping will comply with the National Engineering Handbook (NEH), Part 645, Construction Inspection, [Appendix D, Sample Engineering Notes and Computations](#) and NEH, Part 650, Engineering Field Handbook (EFH), [Chapter 1, Surveying](#).

NEH Part 645, Appendix D (2018) replaces Technical Release 62 - Engineering Layout, Notes, Staking, and Calculations (1979) ([TR-210-62](#)) TR-62 is currently still available and may be used for examples of formats for survey notes.

When electronic survey methods and data collection are used, the "Survey Report" file (.htm) and any converted survey files (e.g. CSV) must be saved in a location pertinent to the project. This location is to be regularly backed up which will serve as the second separate location.

**MI 540.4 Precision and Accuracy**

Precision and accuracy for field surveys for Michigan are as follows:

A. Precision

- a. Engineering field surveys must use a precision that is appropriate for each practice and component.
- b. Control points must be precise enough to check required survey accuracies.

B. Accuracy

- a. Engineering field surveys must be completed to an accuracy adequate for the type of practice and component. Use the guidance in the NEH, Part 650, EFH, Chapter 1, Surveying.