

## Traffic signal operations

### Minimum requirements

Work must be completed under the direct supervision of a Minnesota licensed civil engineer.

### Description

Traffic Signal Operations includes developing traffic signal timing and coordination plans, and recommendations reports for signal timing, phasing, and configuration. This includes all required data collection, field site investigation, software data entry and analysis, any calculations and analysis required to produce the deliverables, development of reports, installation of signal timing plans in the field, field adjustments to the timing plans, and analysis of measures of effectiveness.

### Standards and specifications

May include the following:

- The signal timing plans will be in accordance with the standards in the MN Manual on Uniform Traffic Control Devices (MUTCD), MnDOT Traffic Engineering Manual and MnDOT Signal optimization and Timing Manual.
- The signal timing will be similar to comparable Hennepin County-timed traffic signals.
- The signal timing will be effective for the traffic conditions while at the same time not overly complex.

### Provided By Hennepin County

Information to be supplied by Hennepin County for a project may include the following:

- MN Manual on Uniform Traffic Control Devices (MUTCD)
- MnDOT Traffic Engineering Manual
- MnDOT Signal Optimization and Timing Manual

## Typical services

Project deliverables may include the following:

- Corridor signal operation analysis and recommendations reports.
- Signal timing plans in hard copy and electronic format, including basic signal timings, coordination plans, time of day plans, and traffic responsive plans.
- Electronic data, and hard copy outputs from Synchro software and other signal simulation and analysis software.
- Field installation and adjustment of signal timing plans.