



Traffic Signal Design Manual

ORIGINATOR Director, Bureau of Highway Operations		1-3-1
CHAPTER 1	Introduction	
SECTION 3	Signal Development Process	
SUBJECT 1	Procedure	

The signal development process is outlined below.

STATE MAINTAINED HIGHWAYS

Signal Investigation Study

- Need for signal study identified or Local Agency/Constituent contacts region traffic unit to request signal
- Regional traffic unit notifies constituent on procedure, eligibility, agreements, etc.
- Regional traffic unit or consultant preparation of signal investigation study.
- Formal submittal to Regional traffic unit (if study is prepared by consultant)
- Regional traffic unit review (if study is prepared by consultant) and recommendation
- If signal recommended, Regional traffic unit preparation of Central Office cover letter and two copies of Traffic Control Signal Approval Request Form DT 1199.
- Central Office review and approval.

Project Scoping Process

- Region/consultant prepares capacity analysis, assess proposed/existing geometric considerations, cost estimations, etc.
- Coordinate with existing/future highway needs
- Coordination within other Regional functional areas and other municipalities

Signal Design

- Region/consultant prepares signal plan
- Region/consultant prepares signal timing/system coordination
- Regional traffic unit performs plan review and approval prior to submitting to Central Office
- PS&E package (including signal plans) submitted to BHO Central Office

Traffic Impact Analysis (TIA)

- For signals that are proposed on a state maintained highway by a TIA, the *TIA Guidelines Manual* **shall** be followed.

CONNECTING HIGHWAYSSignal Investigation Study

- Need for signal study identified or Local Agency contacts Regional traffic unit to request signal
- Region notifies constituent on procedure, eligibility, agreements, etc.
- Local agency or consultant preparation of signal investigation study.
- Formal submittal to Regional office
- Regional review and recommendation
- If signal recommended, Regional preparation of Central Office BHO cover letter and three copies of Traffic Control Signal Approval Request Form DT 1199.
- Central Office review and approval.

Project Scoping Process

- Local agency/consultant prepares capacity analysis, assess proposed/existing geometric considerations, cost estimations, etc.
- Coordinate with existing/future highway needs
- Coordination within other Region functional areas and other municipalities

Signal Design

- Local agency/consultant prepares signal plan
- Local agency/consultant prepares signal timing/system coordination
- Region *may* perform cursory plan review for *WisMUTCD* compliance
- Plan approval by local maintaining agency
- PS&E package (including signal plans) submitted to Central Office DTSD

Traffic Impact Analysis

- Signals that are warranted by a TIA on a connecting highway are subject to the approval process outlined in the above signal investigation study section.

LOCAL SIGNALSSignal Investigation Study

- No study required by the Department

Project Scoping Process

- Local agency/consultant prepares capacity analysis, assesses proposed/existing geometric considerations, cost estimations, etc.
- Coordinate with existing/future highway needs
- Coordination within other jurisdictions

Signal Design

- ❑ Local agency/consultant prepares signal plan
- ❑ Local agency/consultant prepares signal timing/system coordination
- ❑ If state administered project, Region *may* perform cursory plan review for *WisMUTCD* compliance
- ❑ Plan approval by local maintaining agency
- ❑ PS&E package (including signal plans) submitted to Central Office DTSD