
Lighting Warrants Request

The review of lighting warrants and light pole relocations should be made early in a project's development so that lighting plans may be included as a part of the final plan. As soon as possible after the field exam, the design sections should provide the necessary information to the Office of Traffic and Safety so appropriate lighting needs can be determined.

Interchange Lighting

All new interchanges that are built, including those involving county roads, will normally include lighting as a part of the design plan. The following guidelines shall be followed in determining their lighting needs.

- Lighting design for new urban interchanges should be consistent with that of adjacent interchanges.
- Lighting design for rural diamonds will normally include lighting for only the ramp terminals with the sideroad. Depending on ramp volumes and ramp exit curvatures, lighting at ramp exit tapers may also be included.
- On new interchanges that include loops, lighting should be included for the loop exit tapers. An individual interchange designed with loops may also warrant additional lighting at the entrance ramp taper and around the inside of the loop.
- Lighting for new cloverleaf interchanges will normally include full lighting around the loops and lighting at the ramp exit and entrance tapers.

For existing unlit interchanges, PPM 630.03 (interchange and freeway lighting) will be used to determine when lighting should be installed. When an existing interchange is to be lit, the lighting design should be consistent with lighting for new interchanges.

Inform the Office of Traffic and Safety whenever existing lighting must be removed or relocated. They will furnish details of the necessary lighting modification for inclusion in the design plan.

Intersection Lighting

When designing a new intersection, or redesigning an old intersection, designers must decide whether to consider lighting as a part of the design plan. This decision is based on the types of roads that are intersecting and the intersection's location. The following guidelines apply.

Intersection of Two Primary Roads

When an intersection involves two primary roads, inform the Office of Traffic and Safety of the project. If the intersection is already lit, they will develop a new lighting layout to be included in the design plan. If an unlit primary-to-primary intersection is to be reconstructed, also supply Traffic and Safety with traffic turning volumes, so the intersection may be reviewed against the criteria of PPM 630.01 to determine if lighting is warranted.

If two primary roads intersect within the corporate limits of a city, the city is responsible for lighting, according to the administrative rules. Traffic and Safety will not normally review warrants for such intersections, nor will the department include lighting work for them in its plans.

Intersection of a Primary Road with a Local Road

If an intersection involves a county road and a primary road, the county is responsible for lighting, according to the administrative rules. Ordinarily, Traffic and Safety will not review warrants for such locations.

If the primary road intersects with a road within the corporate limits of a city, regardless of whether the intersecting road is a primary road, county road, or city street, the city is responsible for lighting. Again, the Office of Traffic and Safety will not routinely review lighting warrants for these intersections.

Projects That Affect Existing Lighting

Inform the Office of Traffic and Safety of any projects that will involve the removal or relocation of any existing lights. This includes the lighting of interchanges, primary-to-primary intersections, primary-to-secondary intersections, or city streets. Traffic and Safety will determine whose responsibility the lighting is and determine if the lighting will be replaced or relocated as part of the project. The following page provides a form that you may photocopy and use for sending this information to the Office of Traffic and Safety.

To: Office of Traffic and Safety Date _____

From: _____

Subject: INTERSECTION LIGHTING

County: _____

Project PIN Number: _____

Proposed Letting Date: _____

Intersection of _____ and _____

Is the existing intersection lighted? yes / no

Is the existing intersection a “Y” that is being reconstructed into a “T” intersection? yes / no

Does either of the primary routes change direction at this intersection? yes / no

Will this intersection be channelized after reconstruction? yes / no

NOTE: Attached are the turning movements at this intersection.