



TS1000 System In-pavement System Design and Installation Notes

Read before Beginning System Design and Configuration

Traffic Safety Corp. recommends that a complete site inspection be conducted prior to system design and configuration, to ensure that all site variables have been taken into account in the configuration of the system.

- Excessive crowning, steep up/down-hill slopes immediately following the crosswalk area, uneven road surfaces, and curves in the road should be evaluated to determine their affects of the system configuration and performance.
- Conditions affecting drainage, such as road depressions and soil conditions, should be evaluated to determine the correct drainage requirements.
- If a solar powered system is planned, check for potential sources of shadows between 9am and 3 pm. A solar site survey is recommended.
- Based on the site survey, the system can be properly specified and configured for the intended site.

Read Before Beginning System Installation

To ensure that the system performs to its design specifications, the system must be installed properly. Attention to a few basic installation practices makes for a problem free installation.

- Consult the engineering plans before placement of the base cans to assure their proper location.
- When installing the fixture base cans make sure that they are installed flush and level with the surface of the road. Use of a mounting jig is required and should be removed only after the concrete has cured.
- Orient the base cans so that when the fixtures are installed they will be aligned with the flow of traffic. Base cans may be aligned properly by rotating them until a bolt hole is in line with the flow of traffic.
- Provide support at the bottom of base cans. In the case of a trench and fill type installation, a Dobie block may be used to avoid settling while the concrete cures. In the case of a core drill and saw cut type installation using a French Drain, the drain pipe will provide the required support. If a Modified French Drain is employed, a Dobie block beneath the drain pipe may be used to provide the required support. The use of quick drying concrete is recommended around the base can area.



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- Verify that drainage system functions as expected before pouring concrete (a gallon of water should be absorbed within 3-5 minutes).
- Pay attention to the polarity of the fixture cabling:
 - White fixture conductor (+12 Volts DC) to red street cabling (connects to output terminal block of system controller).
 - Black fixture conductor (Return) to black street cabling (connects to DC ground terminal block of system controller)
- When installing a solar powered system make sure that the solar panels are facing *True South*.
- Before connecting the street wiring to the controller terminal block, check the street wiring with an ohm meter to make sure that there are no short circuits.