



**DEVELOPMENTAL SPECIFICATION
FOR
PORTABLE TEMPORARY TRAFFIC SIGNALS FOR FLAGGER STATIONS**

Effective Date
January 18, 2006

THE STANDARD SPECIFICATIONS, SERIES 2001, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

01074.01 DESCRIPTION

The Contractor shall provide a portable temporary traffic signal system for a one-lane/two-way temporary traffic signal operation used in conjunction with a flagger and/or pilot car operation. This work is to provide greater advance visibility to the flagging operation.

Articles 2528.07 and 2528.11 shall apply except as modified in this specification.

01074.02 EQUIPMENT

The system shall consist of two or more self-contained trailer mounted units each consisting of one or two signal heads. A single-signal head system shall have the signal head positioned on each side of the roadway. A two-signal head system shall have one signal head mounted on a mast arm capable of extending over the center of the travel lane. The system shall meet the physical display and operational requirements of conventional traffic signals according to Part 4 of the MUTCD. Signal heads shall have 12 inch (300 mm) lenses and conform to ITE Specification for 'Vehicle Traffic Control Signal Heads' and NEMA Standards TS1 and TS2. All signal heads shall be equipped with visors and back plates.

The operating temperature range of the signal system shall be at least -30°F to 120°F (-35°C to 50°C). Each portable unit shall contain a solar cell system to facilitate battery charging. There shall be a minimum of 20 hours backup reserve battery supply and the units shall be capable of operating with a 120 volt power supply from a generator or electrical service.

01074.03 CONSTRUCTION

The Contractor shall notify the Engineer at least 48 hours prior to the use of the signals for timing approval and verification. A qualified vendor representative shall be on site to perform the initial set up and enter the timing parameters.

The portable traffic signal installations shall be set up and leveled in a manner approved by the Engineer.

All portable traffic signals shall be programmed for red flash upon startup, conflict, or power failure. The portable traffic signal system shall be programmed to dwell in all-red.

Signal heads positioned over a road surface shall be mounted a minimum of 15 feet (4.6 m) from the bottom of the signal head to the top of the road surface. All other signal heads shall be mounted at a minimum of 8 feet (2.45 m) from the bottom of the signal head to the top of the ground surface. The flaggers at each end of the work area shall control the portable traffic signals. The flagger can only activate or extend the green indication. The yellow indication shall be approximately 4 seconds. The minimum green time shall be 20 seconds, but can be extended in 2.5 second intervals by the flagger to allow the entire traffic queue to travel through the flagging operation.

In the event of a traffic signal malfunction or a continuous red flash mode, flaggers shall perform on a 24-hour, 7 day a week basis until repairs are made and the traffic signals are fully functional.

01074.04 METHOD OF MEASUREMENT

The item Temporary Traffic Signals will be measured according to Article 2528.12, A, 4, of the Standard Specifications.

01074.05 BASIS OF PAYMENT

The item Temporary Traffic Signals will be paid according to Article 2528.13, A, 4, of the Standard Specifications.