

Documents. Connect the photoelectric cell to a contactor assembly inside the controller cabinet to provide switching of the internally illuminated signs.

**700-3.3.5 Warranty:**

**700-3.3.5.1 Internally Illuminated Signs:** Ensure that internally illuminated signs have a manufacturer’s warranty covering defects for five years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.

**700-3.3.5.2 Highlighted Signs:** Ensure that highlighted signs have a manufacturer’s warranty covering defects for three years from the date of final acceptance by the Engineer in accordance with 5-11 and Section 608.

**700-3.4 Method of Measurement:** The Contract unit price per each for internally illuminated signs, furnished and installed, will include furnishing the sign panels, housing, hardware, electrical connection, and labor necessary for a complete and accepted installation. When the internally illuminated sign is ground mounted, the Contract price will include the support structure and foundation. All other mounting will include the hardware necessary to complete the attachment to the support structure; the span wire, monotube, or mast arm structure will be paid separately.

The Contract unit price per each for highlighted signs, furnished and installed, will include furnishing the sign panels, support structure, foundation, hardware, solar panel, and labor necessary for a complete and accepted installation.

**700-3.5 Basis of Payment:** Price and payment will be full compensation for all work specified in this Section.

Payment will be made under:

- Item No. 700- 5- Internally Illuminated Signs, per each.
- Item No. 700- 6- Highlighted Signs, per assembly.

**700-4 Dynamic Message Signs.**

**700-4.1 General:** Dynamic Message Signs (DMS) must meet the requirements of NEMA TS4-2005. DMS are classified by the type of sign display and the type of mechanical construction. Provide monochrome, tri-color, or full-color signs as shown in the Contract Documents. Use only equipment and components that meet the requirements of these minimum specifications and are listed on the APL. DMS LED retrofit kits must be listed on the APL.

**700-4.1.1 Front Access DMS:** Ensure that front access signs meet the requirements of NEMA TS 4-2005, Section 3.2.5.

**700-4.1.2 Walk-In DMS:** Ensure that walk-in signs meet the requirements of NEMA TS 4-2005, Section 3.2.7.

**700-4.1.3 Embedded DMS:** Embedded DMSs are typically mounted to ground traffic signs, overhead traffic signs, or overhead cantilever traffic signs.

**700-4.2 Sign Housing Requirements for all DMS:** Ensure that the external skin of the sign housing is constructed of aluminum alloy 5052 H32 that is a minimum of 0.125 inches thick for a walk-in DMS and 0.090 inch thick a for front or embedded DMS. Ensure the interior structure is constructed of aluminum. Ensure that the sign housing design and appearance is approved by the Engineer. Ensure that no internal frame connections or external skin attachments rely upon adhesive bonding or rivets.

Ensure the sign enclosure meets the requirements of NEMA TS 4-2005, Section 3.1.1. Ensure that all drain holes and other openings in the sign housing are screened to prevent the entrance of insects and small animals.