

650 VEHICULAR SIGNAL ASSEMBLIES
(REV 2-2-11) (FA 2-7-11) (7-11)

ARTICLE 650-2 (Page 760) is deleted and the following substituted:

650-2 Materials.

Use signal housings, light emitting diode (LED) modules, backplates, and signal auxiliaries currently listed on the Department's Approved Product List (APL). Ensure that all equipment is marked in accordance with Section 603.

SUBARTICLE 650-3.1 (Page 760) is deleted and the following substituted:

650-3.1 Preassembly: Pre-assemble the signal heads when more than one signal section is required prior to installation at the site. Furnish signal heads with LED modules, backplates, and visors. Use tunnel visors unless otherwise specified in the Contract Documents. Install the LED ball module in the door so that the UP arrow or the word UP or TOP is in the up orientation of the signal housing. Install the LED arrow modules in the signal housing door in the direction of the intended use.

SUBARTICLES 650-3.7 thru 650-3.10 (Page 761) are deleted and the following substituted:

650-3.7 Vertically Mounted Polycarbonate (Light-Weight) Signal Head Assemblies: The top section of all multi-section (5-section, 3-section), vertically mounted, light-weight signal heads must be constructed of die cast aluminum, unless the entire 3-section polycarbonate signal head assembly is specifically approved and listed on the APL as a 12" Polycarbonate 3-Section Vehicle Assembly. Ensure that all sections of multi-section assemblies are from the same manufacturer.

Single section signals may be constructed of die cast aluminum or polycarbonate construction.

650-3.8 Backplates: Install louvered backplates on all signal head assemblies. On posted speed limits of 45 mph or greater, provide backplates with a reflectorized border.

650-3.9 Sealing Installed Signal Head Assembly: Ensure that the installed signal head assembly is sealed to exclude dust and moisture. Drill two 1/4 inch drain holes in the bottom of the installed signal head assembly.

650-3.10 Concealing Signals Not in Use: Where traffic signals are installed and not put into service immediately, conceal the signal head assembly by placing burlap bags or other covering approved by the Engineer over a weather resistant covering of non-transparent material open at the bottom to prevent condensation buildup.

650-3.11 Installation Sequence: Install all traffic signal assemblies at any intersection as a single operation unless a staged operation is approved by the Engineer.

SUBARTICLE 650-4.2 (Page 761) is deleted and the following substituted:

650-4.2 Furnish and Install: The Contract unit price per assembly for Traffic Signal, furnished and installed, will consist of the traffic signal assembly, including all attachment hardware necessary to make a complete unit, all mounting brackets, drop-pipe, disconnect hangers, backplates, visors, LED modules, labor, and materials necessary for a complete and accepted installation.

ARTICLE 650-5 (Page 762) is deleted and the following substituted:

650-5 Basis of Payment.

Price and payment will be full compensation for all work specified in this Section.

Payment will be made under:

Item No. 650- 5- Traffic Signal–per assembly.