

Design Standards Letter

Letter Number: G-1962-19

Letter Date: 07/06/1962

Effective Date: 07/06/1962

Section/Plan No.: None

Subject: Standard Drawings

Body

ALL DIVISION , DISTRICT AND URBAN ENGINEERS:

Under separate cover, we are sending you several 8 1/2" x 11" copies of new and revised standard drawings for traffic signals. All of these drawings, except Standard 71.00, have been re-numbered, but the following revisions are general, where applicable.

1. Stone Drains have been eliminated at low points in conduit runs.
2. Quantities of Class B Concrete and Reinforcing Steel in concrete bases were added for estimating purposes. On future projects, the basis of payment will be for cubic yards of Class B Concrete.

Standard Drawing 71.00. Hand-holes, Controller Bases and Power Supply. This drawing was revised by correcting Note No. 3 regarding the gradation of stone for hand-hole drains to be consistent with the 1961 Specifications.

Standard Drawing 71.01. Signal Heads, Lenses and Mounting. This drawing replaces Drawing 71.10. The note specifying the application of enamel on arrow lenses was revised to read "Back Surface" instead of "Convex Surface". The note regarding the non-interchangability of arrow lenses was deleted since these lenses are now interchangeable.

Standard Drawing 71.02. Tubular Steel Posts, Cantilever Truss Type C-1. This drawing replaces Drawing 71.20. The mast arm design has been revised to provide formast arms up to 35 feet in length.

Standard Drawing 71.03. Tubular Steel Posts, Butterfly Type B and Cantilever Type C-2. This drawing replaces Drawing 71.70. The mast arm design has been revised to permit included angles from 90⁰ to 180⁰ with the length of either arm on a butterfly post up to 25 feet. Signal spacing data and post numbering system have been deleted. This information will be shown on a new data sheet, Form SP-

36. Each District is being furnished reproducible copies of this data sheet. Turn signs to be furnished by the Commission have been designated by code number.

Standard Drawing 71.04. Detector Posts with Mast Arms. This drawing replaces Drawing 71.30. The mast arm design has been revised to require a welded lug guy rod attachment in lieu of the old non-skid clamp. Post dimensions were revised to indicate possible adjustment of mast arm fastening height. Base cover anchor bolt and leveling details have been standardized with other drawings. General Notes, which were in effect Specifications, have been deleted, and are now included in a Special Provision. Dimensions of the bridge parapet haunch have been deleted since they are not always uniform.

Standard Drawing 71.05. Span Wire Details. This drawing replaces Drawing 71.50. Backplates have been added to overhead signal faces. Details for a modified Type A Bar in solid rock have been added.

Standard Drawing 71.06. Tubular Steel Posts, Span Type S. This drawing replaces Drawing 71.60. The base design has been revised to be consistent with the appearance of other bases used in traffic signal installations. Signal spacing, post sizes and post numbering system have been deleted. This information will be shown on data sheet Form SP-36 previously mentioned. Signal head mounting details have been revised for uniformity. Turn signs to be furnished by the Commission have been designated by code number.

Standard Drawing 71.07. Detectors. This drawing replaces Drawing 71.40. Mounting details for Ultra-Sonic Detectors have been revised and mounting details for Types 1 and 2 Infrared and Type C Radar Detectors have been added.

All of the above standards will be included in future contracts where applicable, beginning with the August Letting. Additional copies of these standards and data sheets will be furnished upon request.

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