TO:

SUPERSEDED BY EI 87-006
EFFECTIVE 6/25/87

ENGINEERING INSTRUCTION

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

SUBJECT: INTERSECTION FLASHER

Subject Code: 7.27-1-680

Distribution: [B] Main Office [D] Regions [H] Special

Code: 81-51

Date: 12/24/81

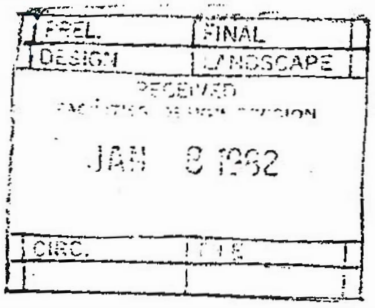
Supersedes:

APPROVED:

M. TEGZA, Director, Final Plan Review Bureau

Attached is a copy of Special Specification 15680.806201, Intersection Flasher (Solid State) With Cabinet. It supersedes Special Specification 15680.8062, Intersection Flasher Controller With Cabinet which is disapproved.

The basic change in the new specification is the use of a solid state rather than mechanical flasher. The new specification will be inserted, where required, into contract proposals by the Final Plan Review Bureau and becomes effective with the March 4, 1982 letting.



ITEM 15680.806201 INTERSECTION FLASHER (SOLID STATE) WITH CABINET

DESCRIPTION

Under this item the contractor shall furnish and installl a solid state flasher relay with a pole mounted cabinet at the location shown on the plans or as directed by the engineer.

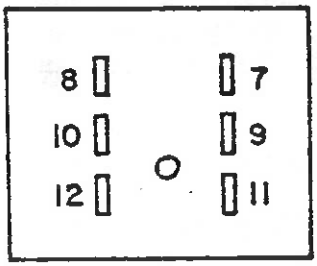
MATERIALS

A. A Solid State Flasher Relay

This solid state switch shall be used for opening and closing connections between the applied power and the lamps required for flashing operation. The solid state flasher relay shall be a NYS Model 204 and shall conform to Department of Transporation Specifications on Microcomputer Traffic Signal Control Equipment.

B. Harness

A harness shall be provided for all electrical connections into and out of the solid state flasher relay. The harness will be composed of five single conductors (7 strand, #14 guage wire) with spade connections at one end and a six prong receptacle plug at the other end which shall intermate with the connector on the solid state flasher relay. The receptacle shall be wired as follows:



PIN NO	CIRCUIT	WIRE
7	Load Ckt. #1	Red
8	Load Ckt. #2	Orange
9	Chassis GND	Green
10	AC -	White
11	AC +	Black
12	Not Connected	

The receptacle shall be mounted in the cabinet in a permanent fashion to allow easy insertion and removal of the flasher relay. A means to support and maintain the flasher relay shall be provided.

C. CABINET

The cabinet shall be a N.Y.S. type A cabinet and conform to Department of Transportation Specifications on Solid State Traffic Signal Control Equipment. Included in the cabinet shall be:

Main Circuit breaker - 15 AMP - UL Approved

Convenience outlet (3 wire, 15 amp, NEMA standard plug receptacle)

A

Ground bus

Power line surge protector

Terminal Block

D. BASIS OF ACCEPTANCE

Acceptance will be based on the manufacturer's certification of compliance with these specification requirements. Acceptance of the Model 204 Flasher Relay will be made only for units listed on the Qualified Products List published by the Department's Traffic & Safety Division.

CONSTRUCTION DETAILS - All wiring shall be neat and firm and shall be color coded or have numbered leads and terminals. Applicable requirements of subsection 680-3 of the standard specifications shall apply.

METHOD OF MEASUREMENT

Flasher controller with cabinet will be measured for payment as the number of each unit furnished and installed in accordance with the Contract Documents or as directed by the engineer.

BASIS OF PAYMENT

The unit price bid shall include the cost of the relay, cabinet, and wiring harnesses and shall include the furnishing of all labor, materials, tools, equipment, and incidentals as required to complete the work. No direct payment will be made for the installation of the power supply meter base when shown on the plans, but the cost of this work shall be included in the price bid for this item.

Payment for this item will be made in the following manner:

Sixty-five percent of the bid price for each flasher will be paid when the components to be paid for under this item are installed.

Twenty-five percent of the bid price will be paid when the flasher is operational.

The remaining ten percent will be paid when all the traffic signals in the contract are functioning to the satisfaction of the engineer.