1. RADAR-ACTIVATED SOLAR WARNING BEACON [617] (ADDED 4-03-25)

Description. This work is furnishing a radar-activated solar powered flashing beacon with a control cabinet, signal, solar panel, battery, radar, and all hardware necessary for a complete beacon system.

Material. Furnish the following:

A solar powered 12-inch yellow LED traffic signal that meets the requirements of Section 703.08.

A traffic signal with an aluminum housing. Signal housing, visor, and backplate must be painted black or dark olive-green. Do not include retro-reflective tape on the backplate.

A solar panel and replaceable battery capable of powering the signal during the day and night according to the manufacturer’s recommendation for the project location.

A DC-powered radar detector that operates with the solar flashing beacon and detects a vehicle to a range of at least 600 feet.

Furnish all the necessary wiring between the various components of the installation.

Construction Requirements.

Operation. The control unit must operate in the following fashion:

The radar detector will detect a vehicle.

The detector will actuate a timer causing the beacon to flash.

The timer will either time out causing the beacon to quit flashing or extend the time due to another detected vehicle.

General. Install the flashing beacon as shown on the plans. Mount the signal, control cabinet, radar, and solar panel on the pole using manufacturer approved mountings. Install manufacturer approved wiring on the pole between the signal and the control cabinet.

Measurement and Payment. Radar-activated solar warning beacons are measured and paid for by the each. Include the control cabinet, signal, solar panel, battery, radar, and all necessary hardware in the unit bid price for SOLAR SIGNAL-TRAFFIC 1-COL 1-WAY 12. Poles and foundations are paid under separate bid items.