

# Special Provision to Special Specification 6414

## Wireless Wrong Way Driver System



Special Specification 6414, "Wireless Wrong Way Driver System Equipment," is amended with respect to the clauses cited below. No other clauses or requirements of this Item are waived or changed.

**Section 2.1., "Functional Requirements,"** is voided and replaced by the following:

- 2.1. **Functional Requirements.** Furnish a Wireless Wrong Way Driver System (Wireless WWDS) that provides a highly visible, enhanced warning for the purpose of alerting the driver and proper authorities. Upon activation by optical camera of a wrong way driver, the primary logic controller must activate and communicate wirelessly to other local alert signs on separate pedestal poles for the purpose of flashing synchronously and then cease operation after a programmable timeout. The Wireless WWDS equipment must also send alerts to a cloud-based web user interface as well as e-mail and Short Message Service (SMS) alerts for all configured users.

**Section 2.2., "Wireless WWDS System Components."** The first paragraph is voided and replaced by the following:

- 2.2. **Wireless Wrong Way Driver System (Wireless WWDS) Components.** The Wireless WWDS system comprises the principal items listed below and must all come from the same manufacturer. They are listed as follows:
- light-emitting diode (LED) warning alert lights on wrong way signs to catch wrong way drivers' attention,
  - primary enclosure mounted on detection pole and houses central communication and logic equipment,
  - local wireless communications for communication between pedestal poles with LED warning alert lights and the central pedestal pole containing the optical camera detector,
  - optical multi-lens camera detector for detecting wrong way drivers at day or night who may be operating with or without the presence of headlights,
  - white LED illuminator for providing visibility during image capture at night,
  - high-resolution camera to capture images and video of wrong way vehicle after detection,
  - cloud-based monitor system for Wireless WWDS status/configuration and wrong way driver alerts,
  - external communications for system status/configuration and wrong way driver alerts, and
  - solar power system for powering lights and equipment.

**Section 2.2.4., "Thermal Detector,"** is voided and replaced by the following:

- 2.2.4. **Optical Camera Detector.** The optical camera detector must be able to detect and distinguish a variety of moving targets, including vehicles, motorcycles, and bicyclists, without headlights in operation. The detector must:
- be able to visualize zones and fields of detection,
  - detect moving objects within a speed range of 6 mph–110 mph,
  - be protected from reverse polarity power connections and power surges and comply with Part 15 Class A of FCC rules,
  - have an IP68 housing weatherproof, ultraviolet-resistant, and protected from water intrusion,
  - detect vehicles up to 300 ft.,
  - have a horizontal field of view between 25° and 90°,
  - have a vertical field of view between 19° and 69°,
  - be able to program at least eight zones,
  - be able to be programmed via Ethernet communication using Windows-based software,
  - be able to push visual confirmation of configured detection zones to user interface software, and
  - meet NEMA TS2 shock and vibration.

**Article 6., "Payment."** The second paragraph is voided and replaced by the following:

This price is full compensation for furnishing and installing the complete installation of the Wireless WWDS as shown on the plans, including all labor, tools, equipment, mounting hardware, and cables; any required equipment modifications for electrical service; documentation; warranty; and incidentals necessary to complete the work, including traffic handling during testing. In addition, any conduit, ground boxes, batteries, solar panels, cable to power source, Wrong Way R5-1a signs, Wrong Way R5-1a signs with LEDs, RFBA, optical camera, local wireless communication devices, primary logic controller, system integration, pedestal poles, and foundations used in the installation of the Wireless WWDS must be included in this bid price.