



**SPECIAL PROVISIONS
FOR
TRAFFIC SIGNALIZATION**

**Lee County
STBG-SWAP-2697(636)--SG-56**

**Effective Date
January 19, 2022**

THE STANDARD SPECIFICATIONS, SERIES 2015, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

155100.01 DESCRIPTION.

- A.** These Special Provisions consist of the general requirements necessary when furnishing a vehicle detection system, battery back-up system, pedestrian push button detectors, LED luminaire fixture, in place, and operative as described in the project plans and these specifications.
- B.** Sections 2525 and 4189 of the Standard Specifications, as modified by these special provisions, shall apply to this project. The installation of the traffic control signals and appurtenances shall be in conformance with the MUTCD, as adopted by the Iowa DOT per IAC 761, Chapter 130.

15XXXX.02 MATERIALS AND CONSTRUCTION.

A. Vehicle Detection System.

- 1.** The City of Fort Madison uses microwave-based radar vehicle detection equipment manufactured by MS-Sedco. Vehicle detection system to include the following system components:
 - Motion and Presence Sensors
 - Cabling
 - Cabinet components
- 2.** Provide and install materials as shown within "Traffic Signal Special Equipment to Be Used" table within the plan set.

B. Uninterruptible Power Supply/Bbs.

The City of Fort Madison uses uninterruptible power supply/battery back-up systems, FXM 1100 UPS Model VATS, manufactured by Alpa Technologies. Provide and install materials as shown within "Traffic Signal Special Equipment to Be Used" table within the plan set.

C. Pedestrian Pushbutton Detectors.

The City of Fort Madison uses pedestrian pushbutton detector equipment manufactured by Polara including the Bulldog III system. Provide materials as shown within "Traffic Signal Special Equipment to Be Used" table within the plan set.

D. LED Signal Heads.

1. The City of Fort Madison uses LED signal head fixtures manufactured by Dialight. The LED signal heads are to be as follows:
 - Red 433-1210-003XL15
 - Yellow 433-3230-901XL15
 - Green 433-2220-001XL15
2. Provide and install materials as shown within "Traffic Signal Special Equipment to Be Used" table within the plan set.

155100.03 METHODS OF MEASUREMENT.

Measurement for Traffic Signalization will be lump sum.

155100.04 BASIS OF PAYMENT.

- A. Payment will be at the lump sum price for traffic signal installation.
- B. Lump sum payment includes compensation for supplying all equipment, labor, and materials necessary to install, erect, and operate a complete, fully functional traffic signal system, including but not limited to traffic signal poles, mast arms, bases, signal heads, luminaires on combination street light/signal poles, wiring, conduits, hand holes, controllers, cabinets, coordination with utilities, vehicle detection system, battery back-up system, any Ethernet communication equipment, testing, and all other miscellaneous hardware, software or any other items necessary to complete the traffic signal system in place.