

ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION
FOR
DIGITAL TRAFFIC SIGNAL CONTROLLER

RCOC/TOC

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RCOC20SP820G

ORG:04-11-22

REV: 03-01-25

a. Description

This work shall be done in accordance with section 818, 819, 820, 918, and 921 of the Standard Specifications for Construction, except as herein provided.

This work consists of furnishing, delivering, and installing a traffic signal controller, *NEMA* Advanced Transportation Controller (ATC) type.

b. Materials

All work must be in accordance with the contract documents.

Provide materials meeting the requirements in sections 918 and 921 of the Standard Specifications for Construction and this special provision.

1. Controller Unit (CU)

A. Provide a CU from the following list. Confirm the appropriate firmware version with the Engineer prior to ordering. No additional payment will be made based on the firmware version provided:

(1) Econolite Group, Inc.

- (a.) Controller Software: EOS NEMA TS2 Fully-Actuated Advanced Traffic Controller Software version 03.2.15.
- (b.) Cobalt by Econolite
- (c.) Basic display with text and textual menus only – no touch screen
- (d.) TS2 Type 2 connector

(2) Yunex Traffic/Siemens

- (a.) Controller Software: SEPAC Fully-Actuated Advanced Traffic Controller Software version 3.58d.
- (b.) Siemens m60 Linux Series Controllers

(3) Approved equal. The approval of submitted alternate models may take several months. Requests to use an alternate model will not be justification for project delays.

- B. Provide materials and associated software and drivers conforming to the following:
 - (1) ATC 5201 v06.25 Advanced Transportation Controller (ATC) Standard Version 06 for use in NEMA TS-1 or TS-2 Cabinets.
 - (2) NTCIP 1202 v02, Object Definitions for Actuated Signal Controllers (ASC) Interface Published November 2005.
 - (3) NEMA Standards Publication TS 2-2021 Traffic Controller Assemblies with NTCIP Requirements Version 03.08.
 - C. Controller shall function with RCOC Digital / ITS Type NEMA TS2 Cabinet Special Provision.
2. Delivery
- A. The pay item shall include the cost of delivery to the Road Commission for Oakland County (RCOC), 2420 Pontiac Lake Road, Waterford, MI 48328.
 - B. Packing and Marking. Ensure each CU is packed separately in such a manner that there will be no injury or defacement to the CU during transportation to the point of destination, unless otherwise specified in the contract. Ensure each carton is legibly marked with the CU description, purchase order number, and vendor's name.
3. Warranty and Guarantee
- Provide materials with a manufacturer's warranty/guarantee, transferable to the Road Commission for Oakland County, that the supplied materials will be free from all defects in materials and workmanship for 1 year for CU software and 2 years for CU hardware from the date of final project acceptance. If requested by the Engineer, supply manufacturer's warranty and guarantee documents from the manufacturer and a copy of the invoice showing date of shipment.
4. Acceptance
- Provide General Certification per the MDOT's *Materials Quality Assurance Procedures Manual* to the Engineer that the materials meet the requirements specified herein.

c. Construction

Complete this work in accordance with sections 819, 818, and 820 of the Standard Specifications for Construction, as shown on the plans and as directed by the Engineer.

1. Submittals / Working Drawings

Submit a detailed dimensional drawing of all equipment, material specification list which shows the materials to be used, equipment to be furnished, material documentation that meets this specification, and assembly/installation method.

- A. Submit controller unit
- B. Submit software version

d. Measurement and Payment

The completed work, as described, will be measured and paid for at the contract unit price using the following pay item(s):

Pay Item	Pay Unit
Controller, Digital Type, Delivered, RCOC.....	Each
Controller, Digital Type, Delivered, SCATS, RCOC	Each

Controller, Digital Type, Delivered, RCOC and Controller, Digital Type, Delivered, SCATS, RCOC (Each) will be measured as a unit. The unit shall be as indicated on plans and the contract unit price each shall be payment in full for all labor, equipment, and materials required to:

1. Furnishing and delivering the controller to the RCOC for controller timing and setup.
2. Transporting the controller from the RCOC to the job site for installation.
3. Install the traffic signal controller unit (CU), and accessories required to provide the traffic signal control operation as shown on the plans and in accordance with the MMUTCD and this special provision.