

ROAD COMMISSION FOR OAKLAND COUNTY

SPECIAL PROVISION
FOR
MAST ARM MOUNTED SIGN

RCOC/TOC/OHM:AS

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RCOC20SP820T

ORG:12-05-22

REV: 03-01-25

a. Description

This work shall be done in accordance with sections 810, 820, 919, and 921 of the Standard Specifications for Construction and all requirements of the Road Commission for Oakland County, except as herein provided.

This work shall consist of furnishing all labor, materials, and equipment necessary to provide and mount a sign to a mast arm or similar structure.

b. Materials

All work must be in accordance with the contract documents.

1. Sign

The sign shall be fabricated in a professional manner in accordance with the specifications. Sign legends shall be in compliance with the current *Michigan Manual of Uniform Traffic Control Devices (MMUTCD)* and MDOT sign fabrication guidelines.

a. Substrate

All sign panel and face types shall be Type IIIB (or as stated on the plans) and shall meet all requirements stated in Section 919 of the Standard Specifications.

b. Sheeting

All sheeting must comply with 919.02 B.1. and ASTM D4956 Type XI (11), using materials from the *MDOT Qualified Products List (QPL)*, such as 3M Series 4000 (Diamond Grade DG³) or Avery Dennison T-11500 Series (OmniCube).

2. Bracket

The bracket shall be an adjustable type which mounts to mast arms, or similar structures using cable type attachments. Provide stainless steel aircraft type stranded cable for fastening the bracket to the supporting arm or structure. The bracket shall be easily adjustable to fit all sizes of round, octagonal, elliptical, or other shaped structure without special tools or equipment. The clamp assembly shall be cast from 713 grade aluminum alloy or equivalent. The tube connecting the sign to the clamp shall be formed tubing and shall connect to the sign using

two stainless steel bolts and washers. Length of tube shall be based on size of the sign. All aluminum components shall have a chromate conversion or equivalent corrosion inhibiting coating. Fasteners shall not require the use of proprietary tools.

Painting Requirements

The bracket must match the mast arm color as indicated on the plans.

3. 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

All work must comply with Sections 810 and 820 of the Standard Specification for Construction and all requirements of the Road Commission for Oakland County.

1. General

Provide two brackets for each sign. The bracket manufacturer may propose an alternate number of brackets based on the sign size. If an alternate is submitted, the alternate shall be clearly labeled and provide a cover letter describing the proposal on the submittal.

The Contractor shall install the sign and brackets at the location identified on the plans and as directed by the Engineer. All signs shall be clearly visible to the traffic for which they are intended. Any sign identified by the Engineer as needing to be relocated shall be relocated by the Contractor at no cost to the Project. All fasteners shall be tightened as recommended by the manufacturer or industry standards.

2. 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.

3. Special Tools

No special tools shall be required.

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
Sign, Mast Arm Mtd, Type _____, RCOC	Each
Sign, Mast Arm Mtd, Rem, RCOC.....	Each
Sign, Mast Arm Mtd, Salv, RCOC.....	Each

Mast Arm, Mtd, Sign, Type _____, RCOC (Each) will be measured as a unit. The contract unit price includes all costs for, but not limited to, payment in full for furnishing and installing sign, brackets, bolts, washers, associated hardware, and such other material as may be required to provide a complete job as specified herein as shown on the plans.

Sign, Mast Arm Mtd, Rem, RCOC (Each) will be measured as a unit. The contract unit price includes all costs for, but not limited to, payment in full for removing sign, brackets, and such other material as may be required to provide a complete job as specified herein as shown on the plans.

Sign, Mast Arm Mtd, Salv, RCOC (Each) will be measured as a unit. The contract unit price includes all costs for, but not limited to, payment in full for installing the salvaged sign, brackets, bolts, washers, associated hardware, and such other material as may be required to provide a complete job as specified herein as shown on the plans.