

**Supplemental Specification  
2017 Standard Specification Book**

**SECTION 13557M**

**VARIABLE MESSAGE SIGN**

**Delete Article 2.1 and replace with the following:**

**2.1 STATE FURNISHED EQUIPMENT**

- A. VMS display
- B. VMS controller
- C. VMS cable (fiber optic)

**Add the following to Article 2.3:**

- B. Power Disconnect – Refer to AT Series Standard Drawings.

**Delete Article 3.2, Paragraph E and replace with the following:**

- E. Make final adjustments to sign horizontal and vertical angles.
  - 1. Aim VMS in the direction of oncoming vehicles
  - 2. Freeway Type I Overhead VMS
    - a. Mount on full span support structure
    - b. Use for Type I VMS only
    - c. Orient perpendicular to the viewing angle of motorists 800 ft before the sign
  - 3. Freeway Type I Cantilever VMS
    - a. Mount on cantilever support structure
    - b. Use for Type I and Type II VMS
    - c. Orient perpendicular to the viewing angle of motorists 800 ft before the sign
  - 4. Roadside and Surface Street VMS
    - a. Orient the sign and structure according to the plans.
    - b. Adjust the sign angles to meet the motorist eyes.

**Delete Article 3.2 Paragraph H, subparagraphs 1 - 5 and replace with the following:**

1. Freeway Type 1 signs use continuous Multimode fiber and connectors supplied by the manufacturer.
  - a. Terminate each fiber with manufacturer's connector.
2. Roadside and surface street signs use communications cable according to manufacturer's recommendations.
3. Coil 6 ft of extra cable in each junction box measured from the top of the junction box going out.