

**SECTION 710  
FENCE AND GUARDRAIL**

**710-2.04 METAL BEAM RAIL.** *DELETE this subsection in its entirety and REPLACE with the following:*

1. W-Beam and Thrie Beam Guardrail. Meet AASHTO M 180, Class A, Type II.
2. Box-Beam Guardrail. Meet:
  - a. ASTM A500 Grade B, or
  - b. ASTM A501.

Galvanize the rail per AASHTO M 111 after fabrication.

**710-2.11 GUARDRAIL TERMINALS.** *DELETE this subsection in its entirety and REPLACE with the following:*

Meet coating requirements of AASHTO M 180, Class A, Type II. Galvanize after fabrication. Fabrication includes forming, cutting, shearing, punching, drilling, bending, welding and riveting. Provide one of the following terminal types, as shown on the plans, for single-rail W-beam guardrail.

1. Parallel Terminal.
  - a. Provide terminals meeting the following:
    - (1) Crashworthiness: Provide terminals that pass NCHRP 350 or MASH Test Level 3.
    - (2) Length: 50 feet.
    - (3) End Offset: 0 to 2 feet (25:1 or flatter straight taper) Offset end as shown on the plans.
    - (4) Posts: Use posts that are:
      - (i) Steel post with hinge or
      - (ii) Yielding or breakaway steel post in steel tube
    - (5) Acceptable models include the following or approved equivalent:
      - (A) Sequential Kinking Terminal (SKT) manufactured by Road Systems, Inc., 3616 Old Howard County Airport, Big Spring, Texas 79720, Telephone 432-263-2435.
      - (B) Extruder Terminal (ET-Plus) manufactured by Trinity Highway Products, L.L.C., 950 West 400 South, Centerville, Utah 84014, Telephone 801-292-4461 or 800.772.7976.
2. Buried in Backslope Terminal: Provide terminals that meet the requirements of Standard Drawing G-15.