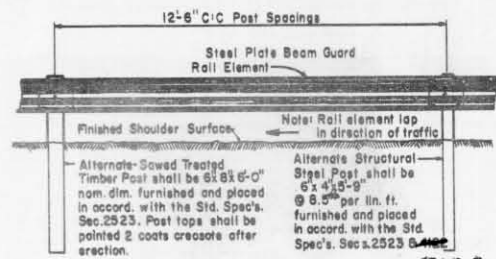


Side ELEVATION
TIMBER POST

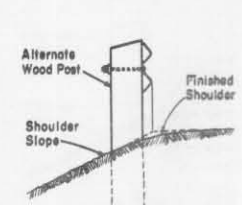
Side ELEVATION
STEEL POST

Front ELEVATION
STEEL POST

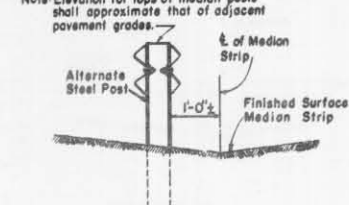
ALTERNATE TYPE POSTS FOR
STEEL PLATE BEAM GUARD AND
STEEL PLATE BEAM (MEDIAN) GUARD



FRONT (Traffic Side)
ELEVATION
STEEL PLATE BEAM GUARD OR
STEEL PLATE BEAM (MEDIAN) GUARD

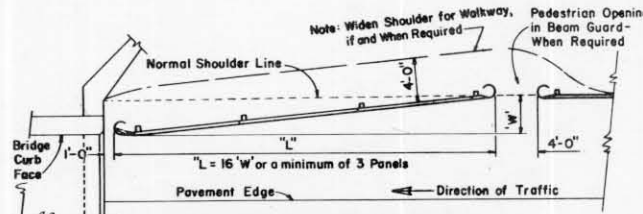


End Elevation
Showing Position of
STEEL PLATE
BEAM GUARD

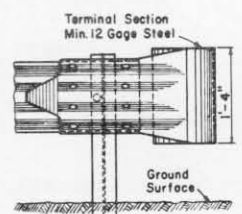


End Elevation
Showing Position of
STEEL PLATE
BEAM (MEDIAN) GUARD

Note: Elevation for tops of median posts shall approximate that of adjacent pavement grades.

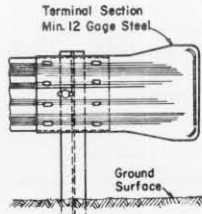


Location Diagram at Bridge Approaches For
STEEL PLATE BEAM GUARD



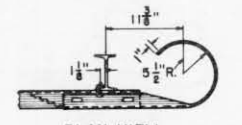
Terminal Section
Min. 12 Gauge Steel

FRONT (Traffic Side) VIEW
Type A

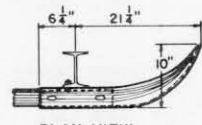


Terminal Section
Min. 12 Gauge Steel

FRONT VIEW
Type B

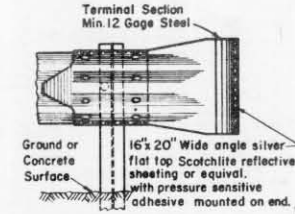


PLAN VIEW



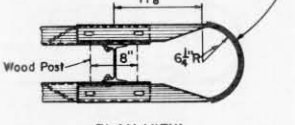
PLAN VIEW

Alternate Types
TERMINAL SECTION DETAILS FOR
STEEL PLATE BEAM GUARD



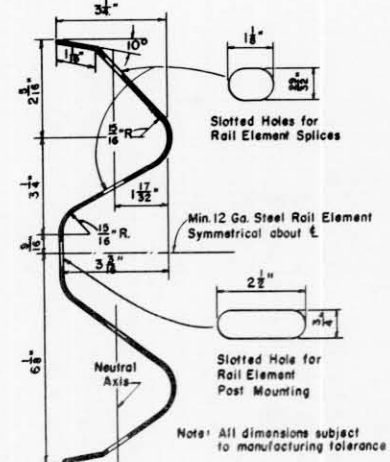
Terminal Section
Min. 12 Gauge Steel

FRONT VIEW
Type C

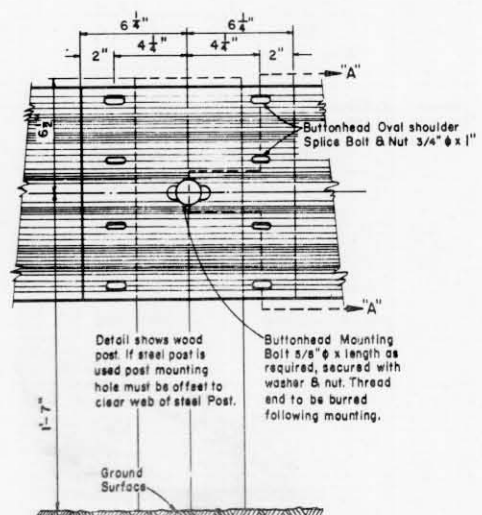


PLAN VIEW

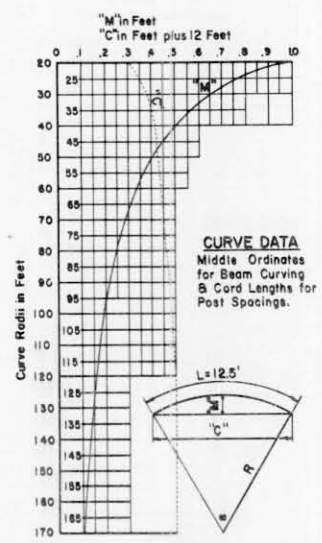
TERMINAL SECTION DETAILS FOR
STEEL PLATE BEAM (MEDIAN) GUARD



SECTION "AA"
RAIL ELEMENT SECTION
(Min. 12 GAGE STEEL)



RAIL ELEMENT SPLICING &
POST MOUNTING DETAILS



CURVE DATA
Middle Ordinates
for Beam Curving
& Cord Lengths for
Post Spacings.

GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

The Steel Plate Beam Guard or (Median) Guard shall consist of steel plate made of open hearth or electric furnace steel.

Plates shall be blanked to proper shape, fabricated and ready for assembly when received in the field. The plates shall be true to plan dimensions and of uniform section. Warped or deformed plates will be rejected. The edges of the plates shall be rolled or rounded so that they present no sharp edges. All connections and splices shall be formed with flat round headed bolts, or similar detail so that no appreciable projection will be presented on the road side of the guard. The rail element shall be spliced by lapping in the direction of traffic or by butt joints with splice plate. Plates ends in lap splices or plate ends and splice plate in butt splices shall make contact throughout the entire area of the splice.

TESTS

The elongation of a 2 inch specimen of the steel plate used in the rail element shall be not less than 12 percent tested in tension. The minimum tensile strength of the rail element shall, when tested in conjunction with splices and end connections, be 50,000 lbs. The rail element when loaded as a simple beam, freely supported at each end on 12-0 inch centers shall support a concentrated load of 1,500 lbs., applied at the center point, with a maximum deflection of 2 1/2 inches and shall support a concentrated load of 2,000 lbs. when tested in like manner with a maximum deflection of 3 1/2 inches.

PAINTING

SHOP COAT—Promptly following fabrication, the plates for steel rail element and steel posts shall be thoroughly cleaned and painted with red lead primer or, upon the Engineer's approval, an alternate of rust inhibitive primer may be used. All parts, hardware and appurtenant fittings for the complete beam guard assembly shall likewise be painted when not furnished galvanized.

FIELD COAT—Following erection the steel rail elements, parts, hardware, appurtenant fittings and steel posts shall be painted in accordance with the Standard Specifications for and with aluminum paint as provided in Section 312.5.

Any damaged areas occurring to the shop coat during transportation or erection shall be cleaned and painted with red lead or an approved rust inhibitive primer prior to any field coat painting.

Where the steel plate elements make contact with the post mountings at all such areas which are inaccessible to paint after erection shall be painted prior to erection.

All threaded portions of fittings, fasteners and cut ends of bolts shall be painted as specified immediately following erection.

CIRCULAR STEEL PLATE ELEMENT

Steel plate beam elements for beam guard or (median) guard for radii of 20 ft to 150 ft shall be shop-curved prior to shop coat painting. Steel plate beam elements shall be bent to true circular curvature, void of kinks. Kinks shall be cause for rejection.

Steel plate beam elements shall have a minimum bending radius of 20 feet.

ALTERNATE POSTS

One type of post shall be used for Steel Plate Beam Guard and/or Steel Plate Beam (Median) Guard throughout the length of each project unless specific authorization is obtained from the Engineer to use alternate types.

MEASUREMENT & PAYMENT

The items of Class 'B' Steel Plate Beam Guard and Class 'B' Steel Plate Beam (Median) Guard shall be measured and paid for at the contract unit price per linear foot, measured in place by length in linear feet from end to end-out to out of steel plate terminal sections, which price shall be full compensation for furnishing and placing all materials and performing all work to completion in accordance with the plans and the Standard Specifications Section 2523 and the applicable Special Provisions.

BID ITEMS

No. 2523-3 Steel Plate Beam Guard.....	Lin. Ft.
No. 2523-4 Steel Plate Beam (Median) Guard.....	Lin. Ft.

**STEEL PLATE BEAM GUARD &
STEEL PLATE BEAM (MEDIAN) GUARD**

STATE HIGHWAY COMMISSION OF WISCONSIN

RECOMMENDED FOR APPROVAL:

3-28-57
DATE: *J. J. Piff*
ENGINEER OF DESIGN

APPROVED:
3/28/57
DATE: *E. C. Rothman*
STATE HIGHWAY ENGINEER