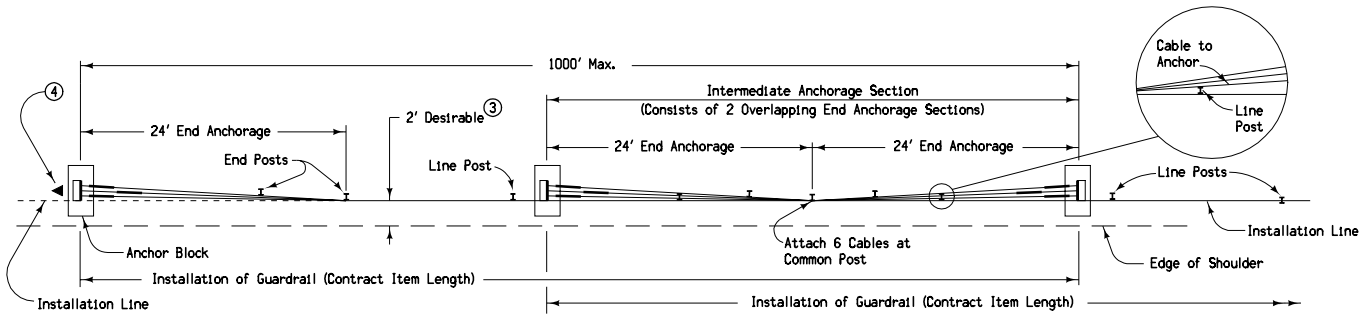
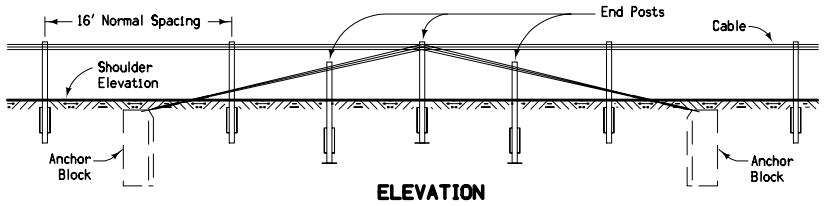
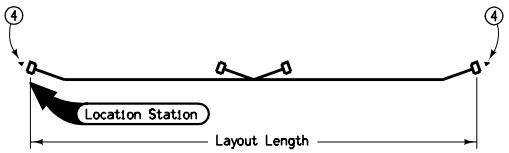


PLAN



ELEVATION



Post spacing shall be 12 feet for curves with radii between 442 and 721 feet. Post spacing shall be 16 feet for curves with radii greater than 721 feet.

Posts may be driven - except end posts, which shall be set to proper location in pre-drilled holes and securely backfilled and compacted.

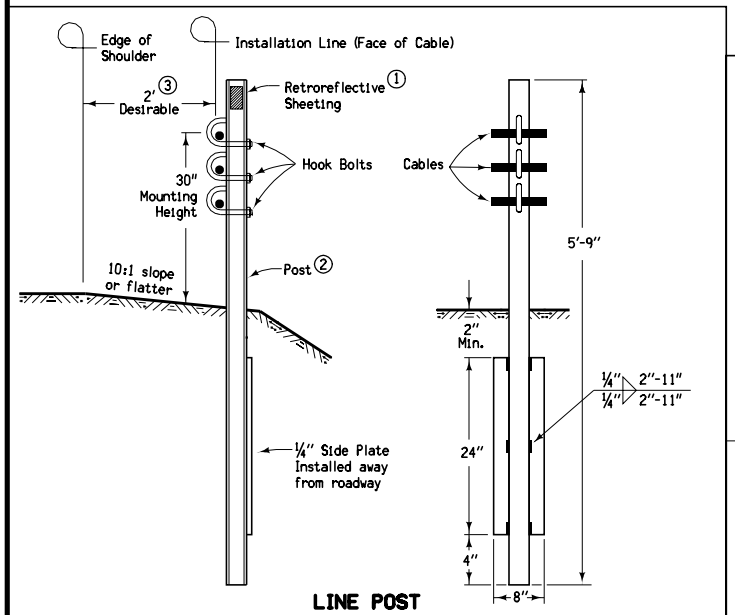
For runs over 1000', overlapping end anchorage shall be located to provide approximately equal length sections of guardrail. Maximum length between anchorages shall be 1000'.

① Apply Type III or IV retroreflective sheeting to the first three posts and the last three posts of each installation, and to every third post in between. The sheeting shall provide a minimum surface area of 7 square inches and shall match the color of the adjacent edge line. Attach sheeting to that side of the post from which impacts are most likely to occur. Where impacts are likely to occur from either direction, attach sheeting to both sides of the post.

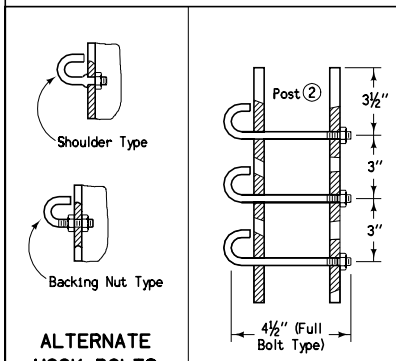
② Either Type S 3x5.7 or Type C 3x5.9 meeting minimum cross section dimensions as shown may be used.

③ Installation line shall be on a 10:1 or flatter slope. To achieve this, it may be placed closer than 2 feet from the edge of shoulder.

④ Type 2 Object Marker (MUTCD OM2-1H). Two Object Markers required per installation. Object Markers shall be considered incidental to "Installation of Guardrail."



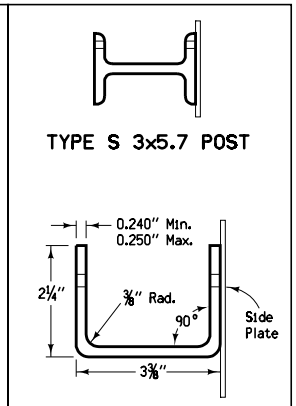
LINE POST



ALTERNATE HOOK BOLTS

Note:
Hook bolts, as installed, shall develop an ultimate pull open strength of from 500 to 1000 lbs. applied in a direction normal to the longitudinal axis of the posts. Only use ONE type of bolt per project.

HOOK BOLT INSTALLATION



TYPE S 3x5.7 POST

TYPE C 3x5.9 POST

POST OPTIONS ②

Contract Items:

Installation of Guardrail
Guardrail, End Anchorage, Cable, RE-29A

Tabulation: 108-9

Iowa Department of Transportation

STANDARD ROAD PLAN

REVISION	
13	10-16-07

RE-29C

SHEET 1 of 1

REVISIONS: General re-write for clarity. Added retroreflective sheeting requirements. Removed delineators.

Deanna Maifeld
APPROVED BY DESIGN METHODS ENGINEER

CABLE GUARDRAIL