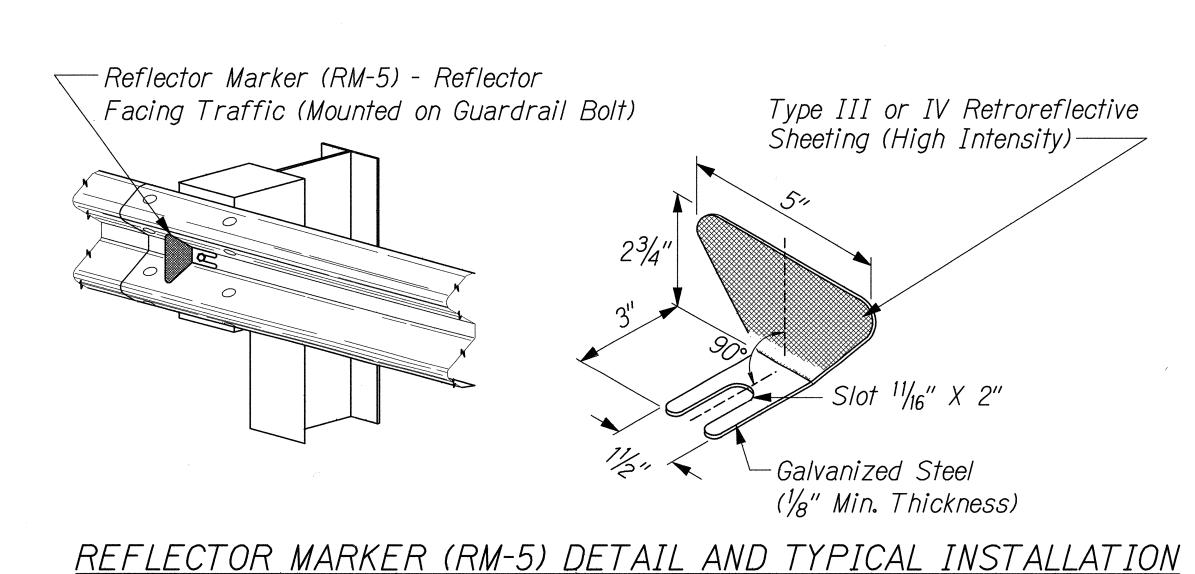
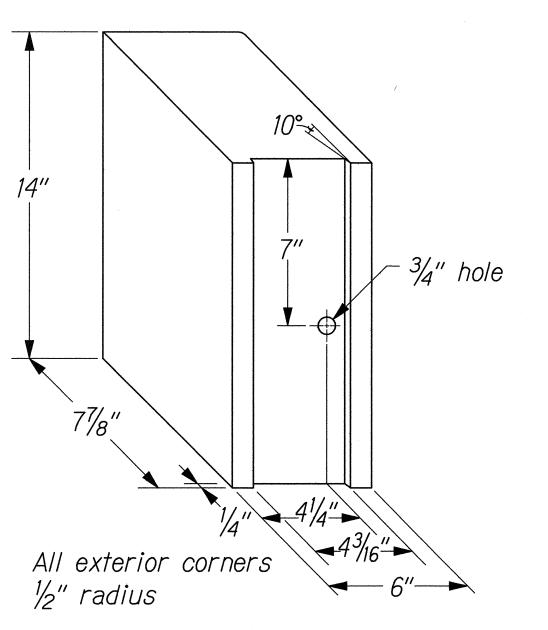


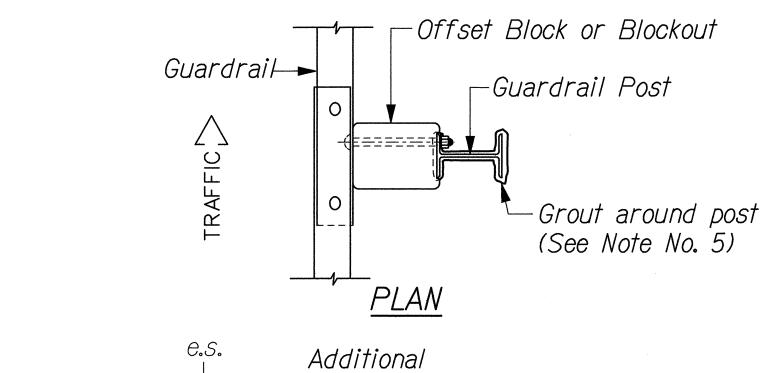
STEEL POST AND BLOCK DETAIL

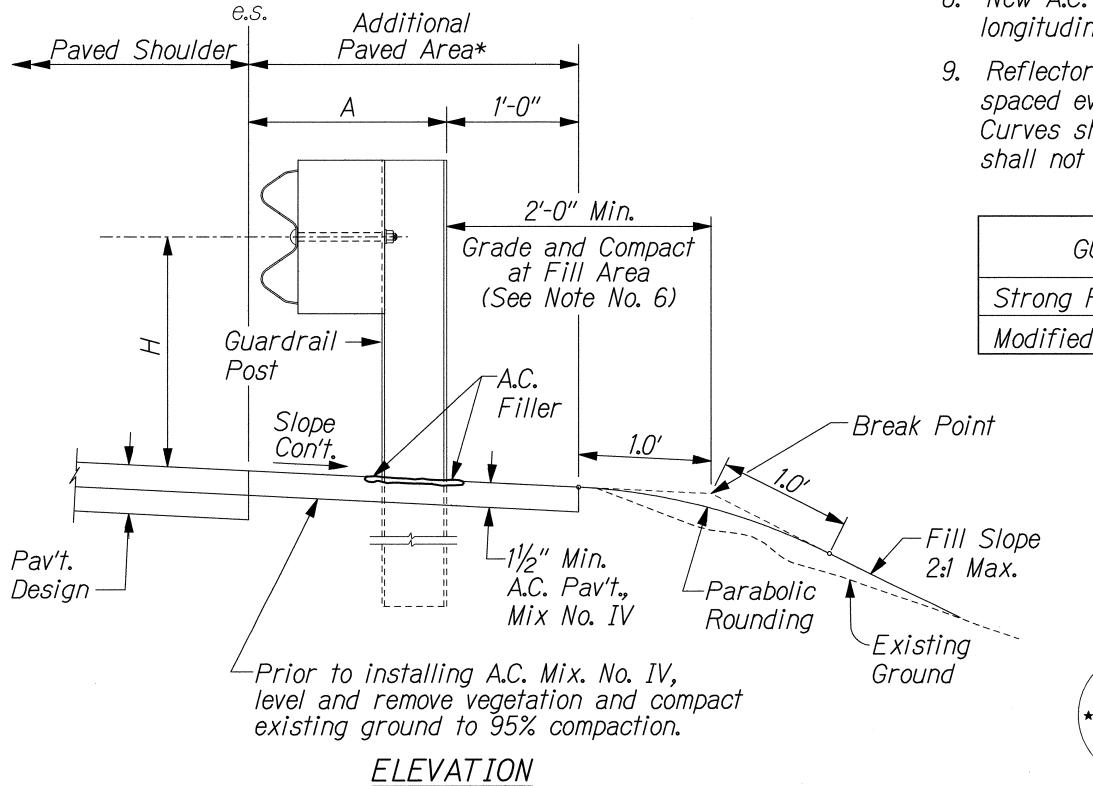
(Rail and washer not shown)





RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





TYPICAL GUARDRAIL INSTALLATION

FED. AID FED. ROAD FISCAL SHEET STATE DIST. NO. PROJ. NO. YEAR NO. 2001 HAW. ER-12(2) 112 HAWAII

GENERAL NOTES:

- 1. All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- 2. Where conditions require, special post lengths in increments of 6 inches may be specified.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM02b, etc.) shall conform to the latest edition and amendments of "A Guide to Standardized Highway Barrier Rail Hardware", a report prepared and approved by the AASHTO-AGC-ARTBA Joint Cooperative Committee, Subcommittee On New Highway Materials, Task Force 13 Report. Dimensions of fasteners, posts and rail elements have been converted from metric units into their present form.
- 4. The Recycled Plastic Block or Offset Block shall be approved by the Engineers.
- 5. All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the Additional Paved Area.
- 6. After the guardrail posts are installed in the paved area, the Contractor shall fill/seal around each guardrail post and all cracks in the paved area caused during the guardrail post installation. If required by the Engineer, the Contractor shall tamp the paved area around the guardrail post prior to filling/sealing. All costs associated with this work shall not be paid for separately, but shall be considered incidental to the various quardrail items.
- 7. When standards for the fill slope area cannot be met, a site specific, Engineer approved design may be used.
- 8. New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
- 9. Reflector Markers (RM-5) mounted on guardrails shall be spaced every 200 feet. Spacing of RM-5's on Horizontal Curves shall comply with Table III-1 of the MUTCD. RM-5's shall not be installed on Terminal Sections.

GUARDRAIL TYPE	DIMENSION	
	Н	Α
Strong Post w/W Beam	1'-95/8"	1′-6″
Modified Thrie Beam	2'-0"	2'-0"

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION GUARDRAIL DETAILS AND NOTES

STATE OF HAWAII

MAMALAHOA HIGHWAY, EMERGENCY REPLACEMENT OF KAALAALA STREAM BRIDGE FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII Date: FEBRUARY 20, 2001 Scale: None

SHEET No. BC18 OF 28 SHEETS

LICENSED PROFESSIONAL ENGINEER THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.