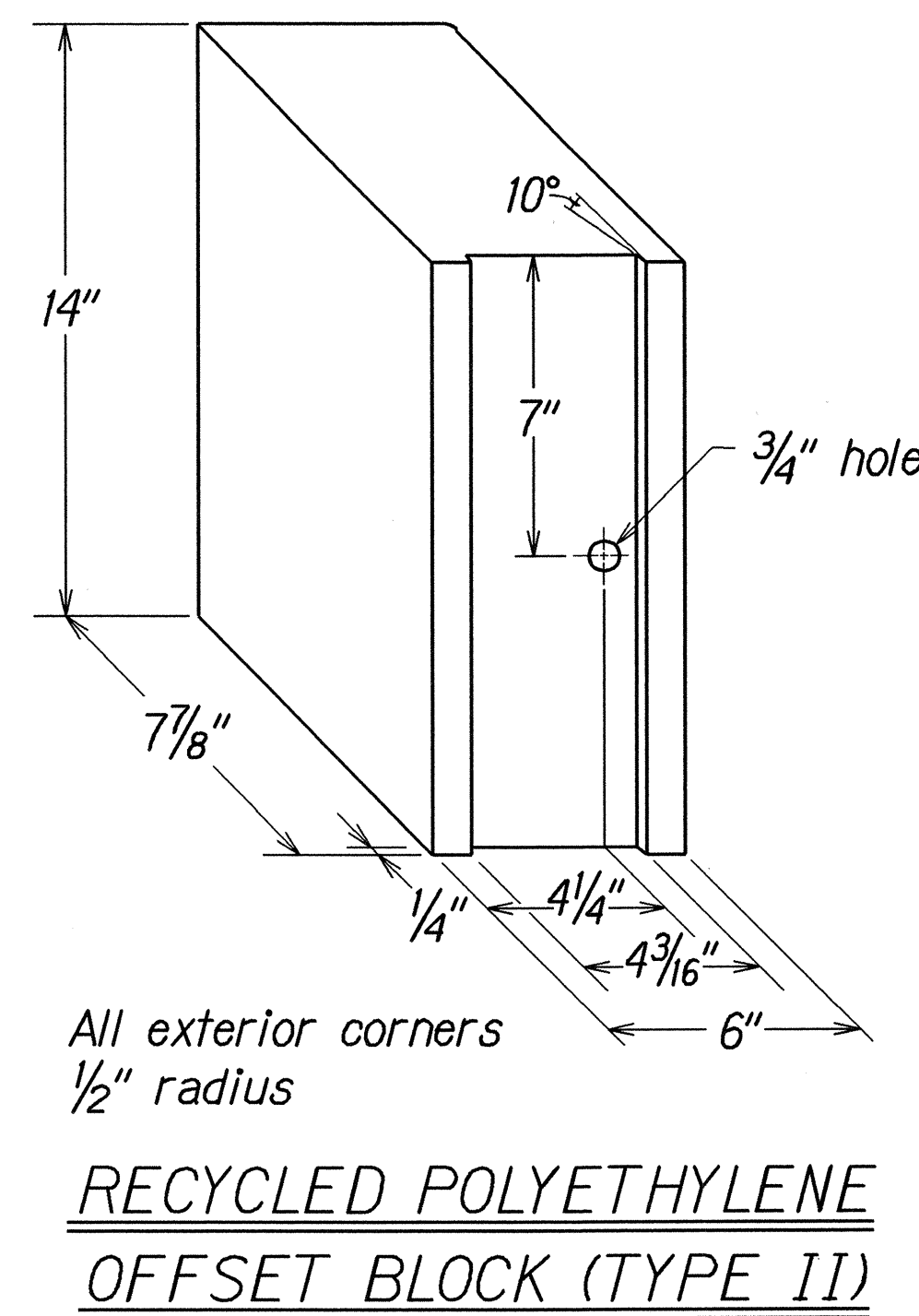
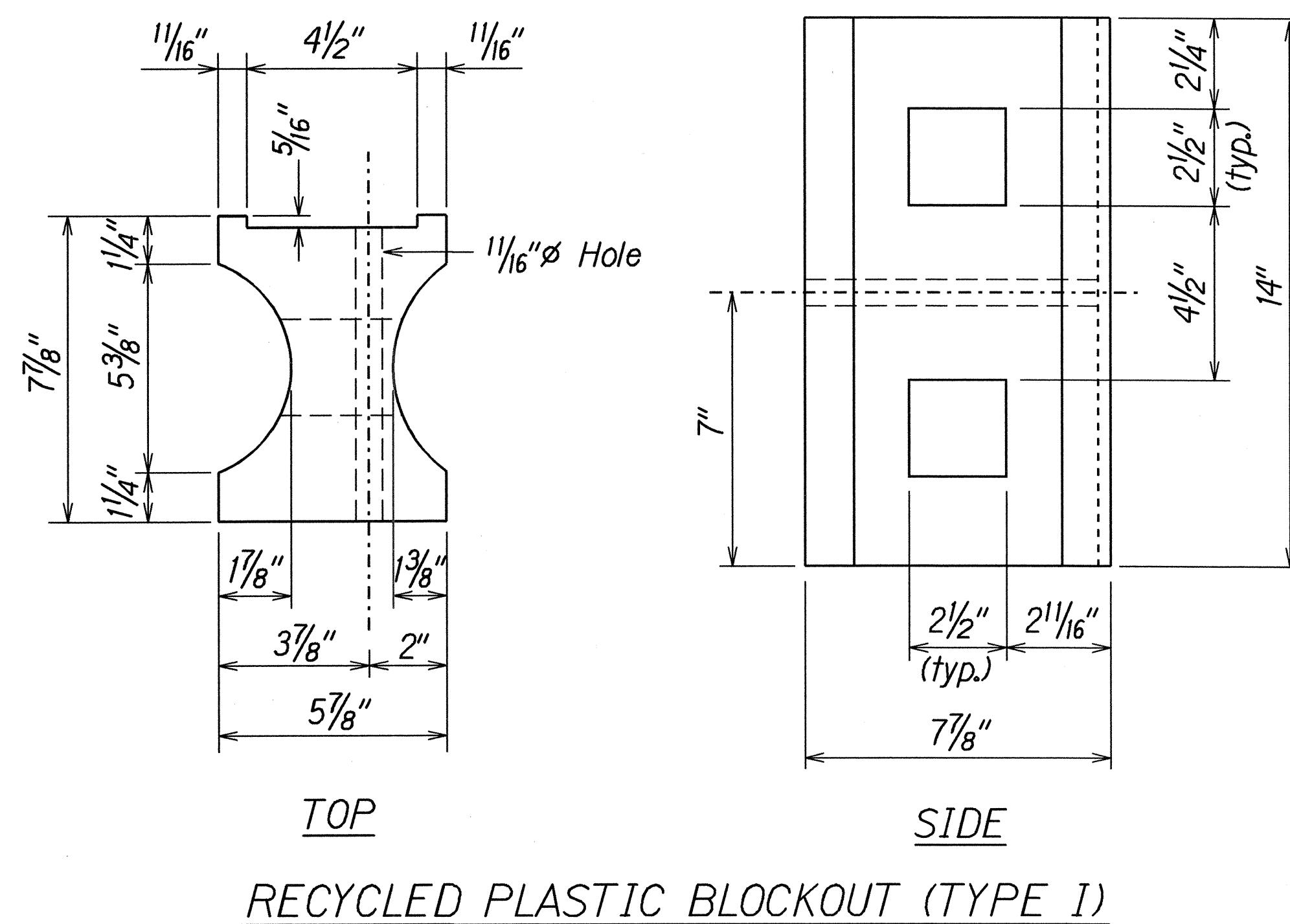
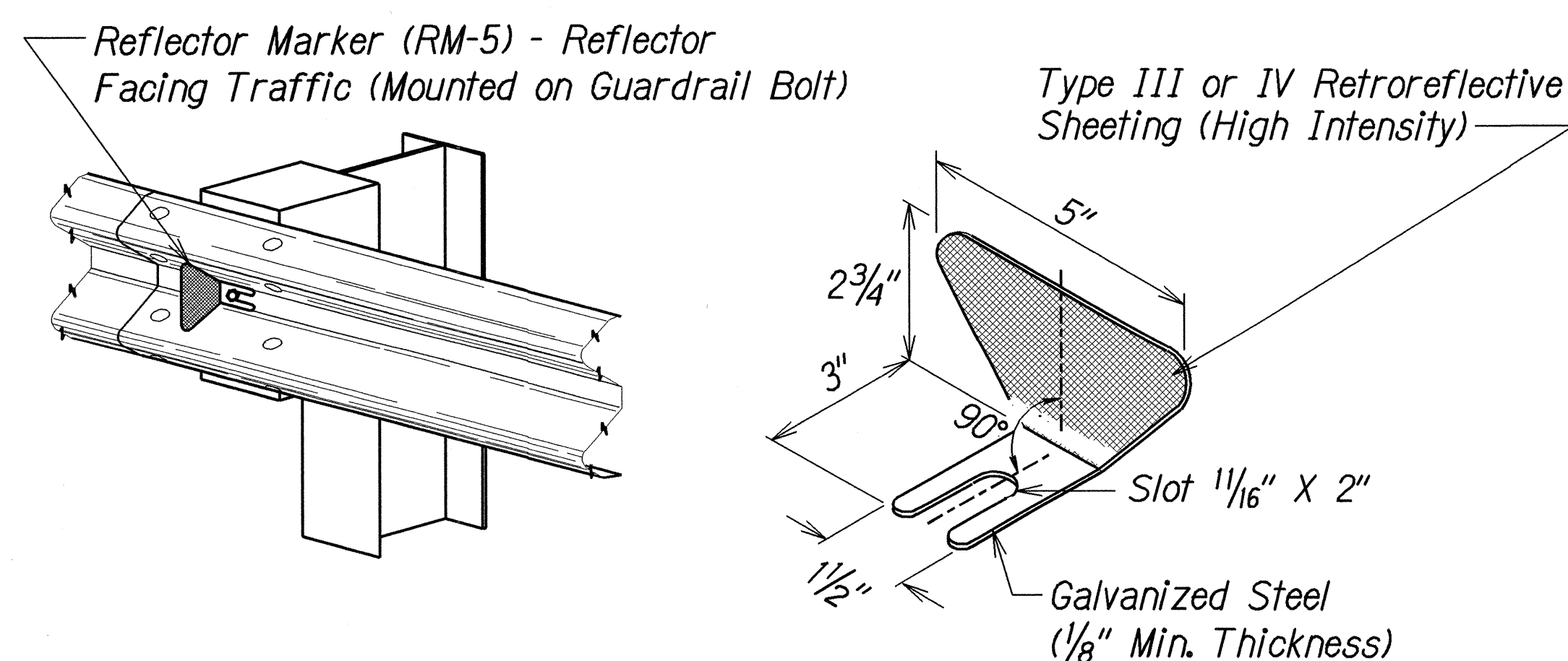
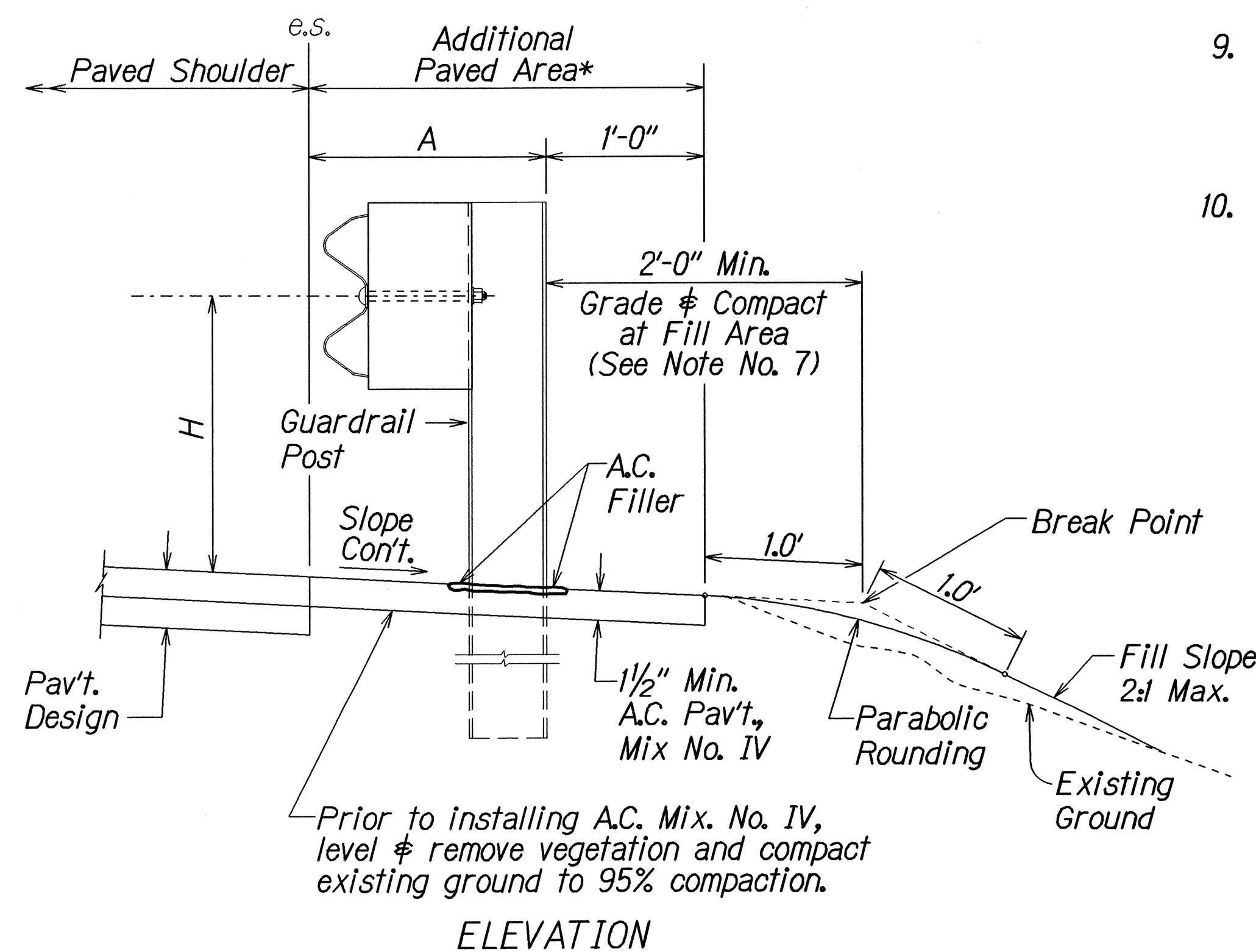
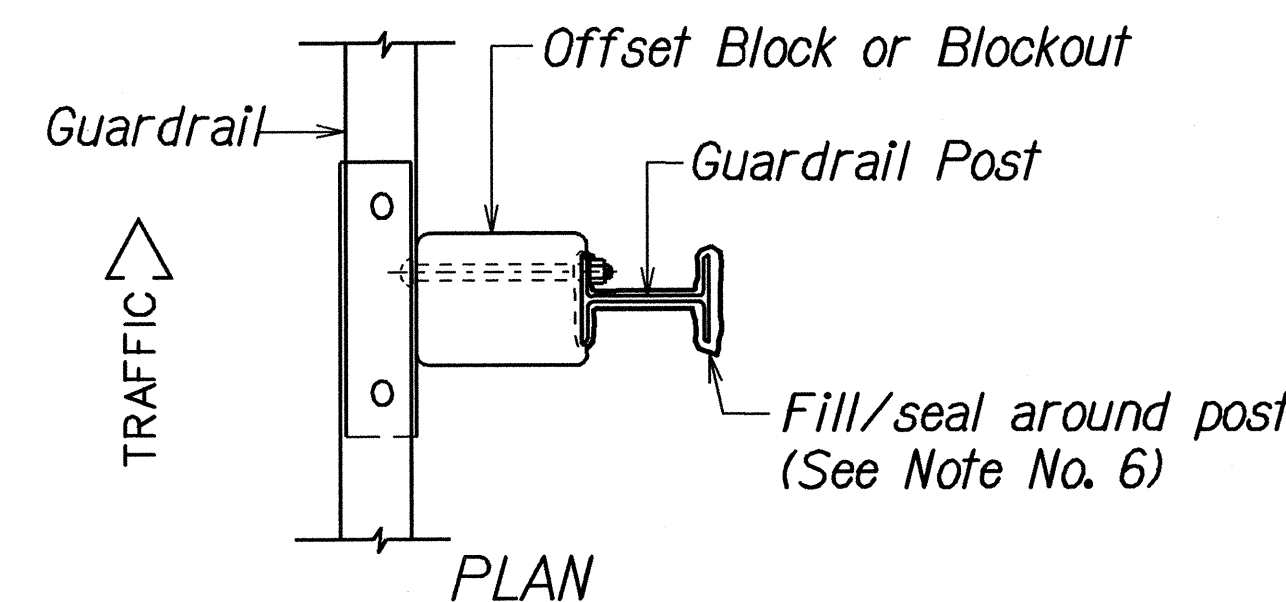
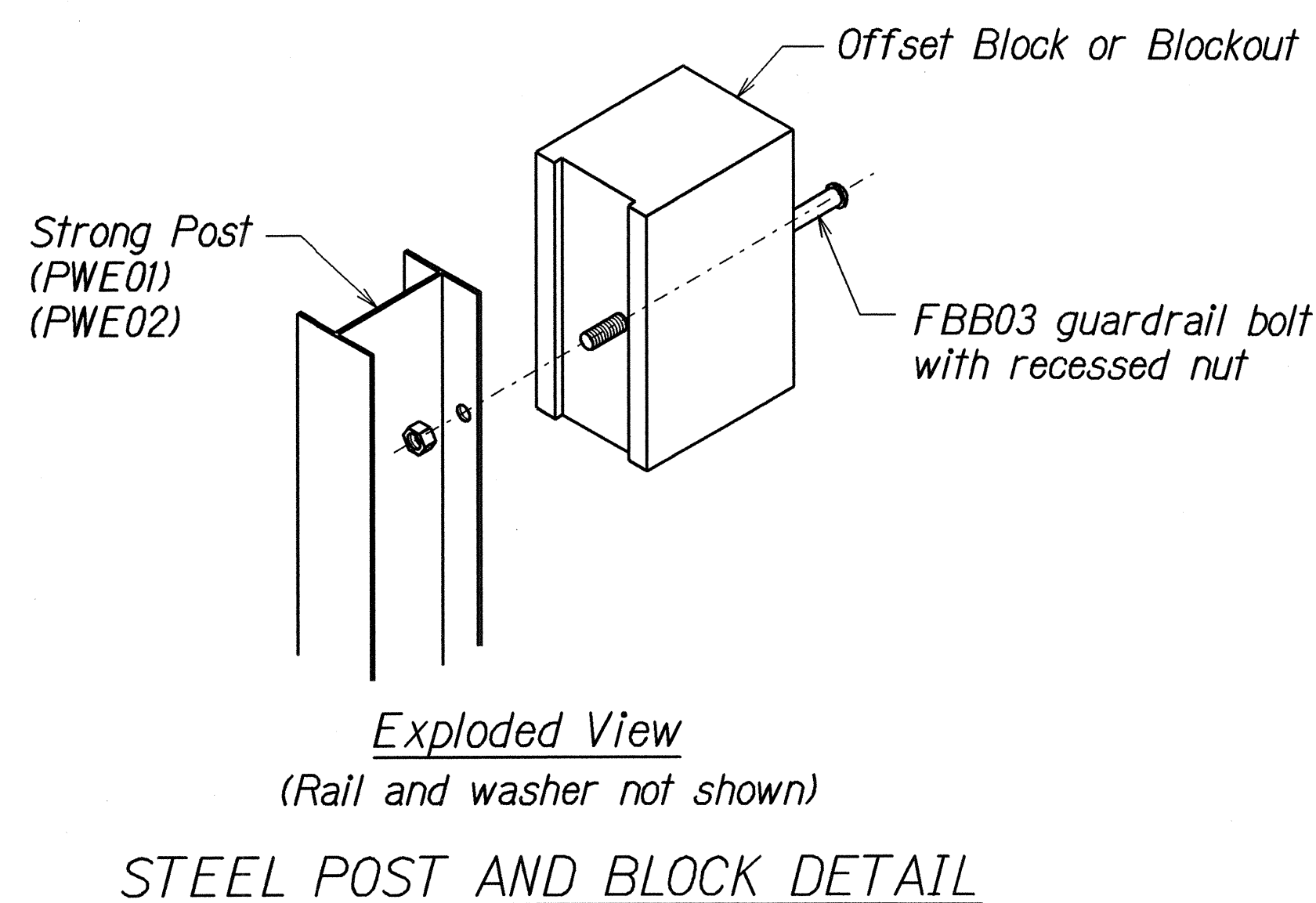


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(27)	2005	21	27



- ## 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 State.
 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 inspector/engineer, the Contractor shall tamper 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 guardrail 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 25 feet. RM-5's shall not be installed on Terminal Sections. Furnishing and installing of each RM-5 shall be considered incidental to the adjacent guardrail system.
 10. At the Contractor's option, AC paving under guardrail can be placed after installation of guardrail.



GUARDRAIL TYPE	DIMENSION	
	H	A
<i>Strong Post W-Beam</i>	1'-9 ⁵ / ₈ "	1'-6"
<i>Strong Post Rubrail (W-Beam)</i>	2'-0"	1'-6"
<i>Modified or Strong Post Thrie Beam</i>	2'-0"	2'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS & NOTES

KAUMUALII HIGHWAY

Guardrail and Shoulder Improvements
at Hanapepe Bridge and
Mana Bridge Structure Nos. 1, 2, 3 & 4
Federal Aid Project No. STP-050-1(27)

Scale: NTS Date: Nov. 2004

SHEET No. / OF / SHEETS