

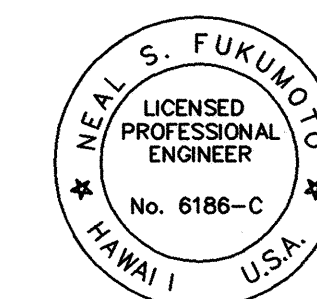
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	56A-02-00M	2002	7	30

### GENERAL NOTES

- All hardware, posts and fasteners shall be hot-dip zinc coated galvanized after fabrication. No punching, drilling or cutting will be permitted after galvanizing.
- Where conditions require, special post lengths in increments of 6 inches may be specified.
- 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 fastners, posts and rail elements have been converted from metric units into their present form.
- The Recycled Plastic Block or Offset Block shall be approved by the State.
- Prior to installing A.C. Mix No. IV, level and remove vegetation and compact existing ground to 95% compaction.
- Paved width call outs from Roadway Plan shall be measured from existing edge of shoulder (e.s.) toward fill slope.
- After the guardrail posts are installed in the paved area, the Contractor shall grout around the guardrail post and seal all cracks in the paved area that was 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 grouting. The cost for this work shall not be paid for separately, but shall be considered incidental to the various guardrail items.
- When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
- Reflector markers (RM-5) mounted on guardrails shall be spaced every 100'-0". RM-5's shall not be installed on the FLEAT-350 or Thrie Beam Guardrail. RM-5 and RM-2 spacing shall be staggered every 50'-0".

GUARDRAIL TYPE	DIMENSION		
	H	A	B
Strong Post w/ W-Beam	1'-9-5/8"	Varies	*1'-0"
Modified Thrie Beam	1'-10"	2'-0"	*1'-0"

\* Varies - to top of crm wall where present



This work was prepared by me or under my supervision.

*Neal S. Fukunoto*  
Wesley R. Segawa & Associates, Inc.

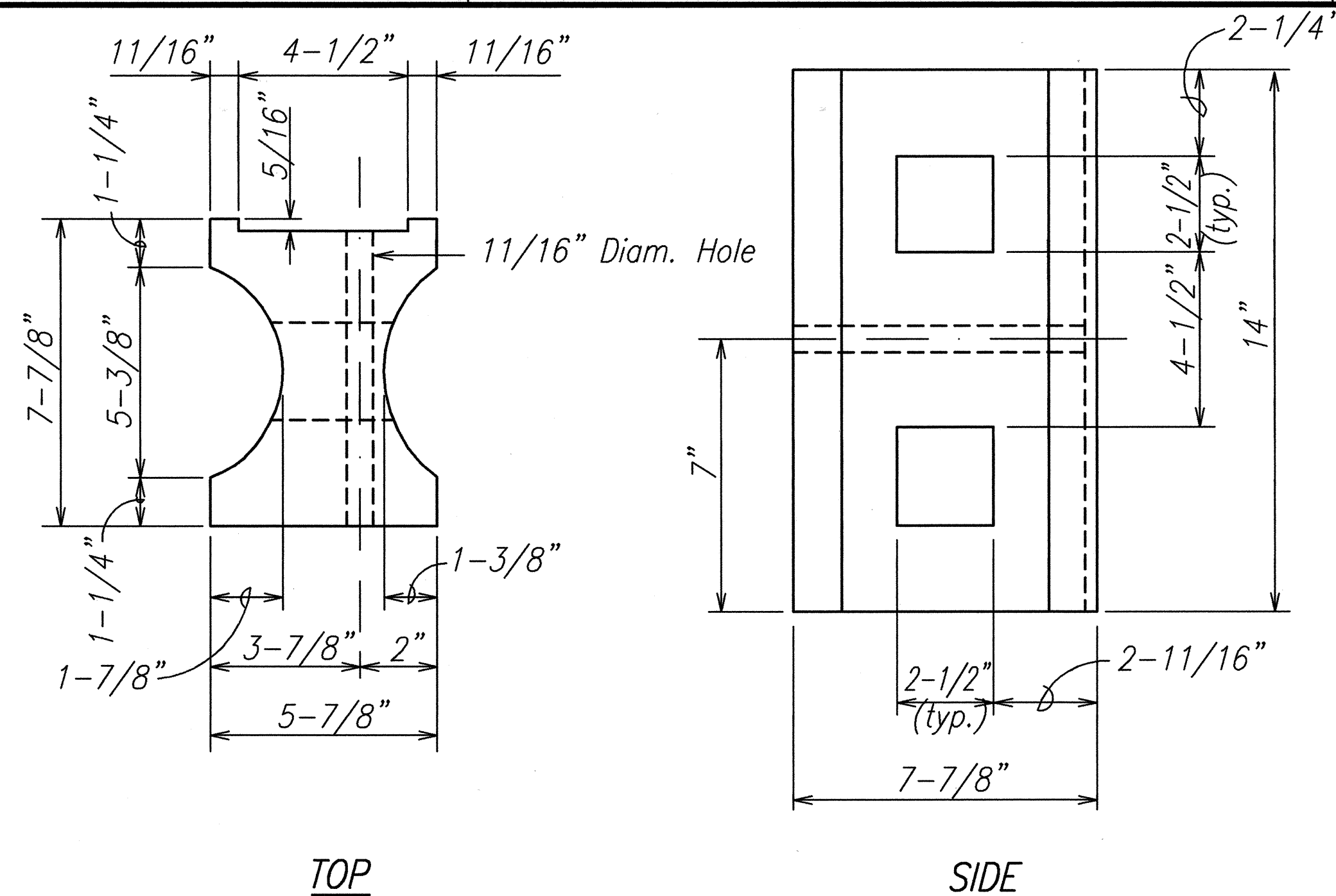
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### GUARDRAIL DETAILS AND NOTES

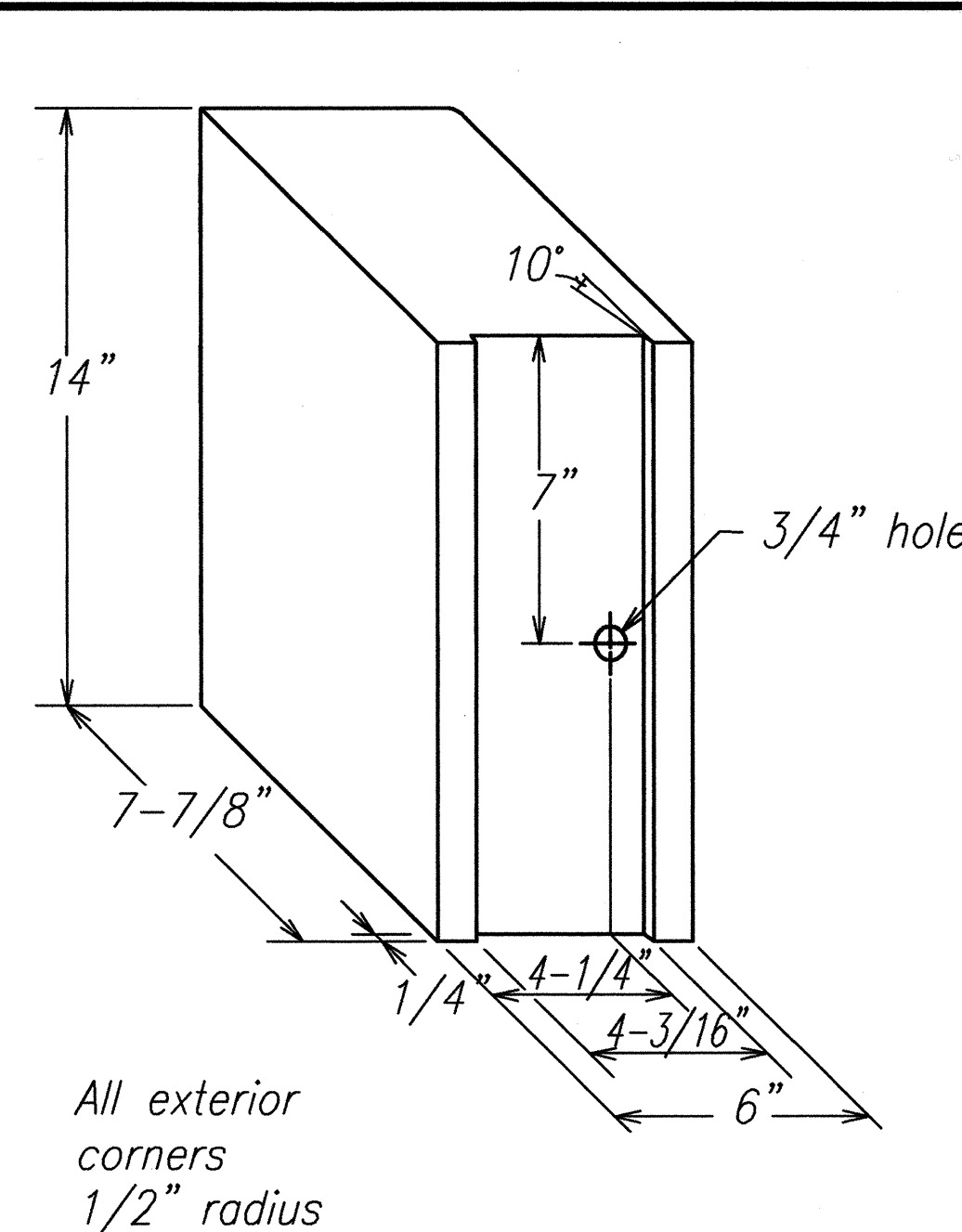
**KUHIO HIGHWAY**  
**Wailua River Plantation Bridge**  
**Replace and Reconstruct Pavement and Structural Supports**  
**Project No. 56A-02-00M**

Scale: NTS Date: May, 2001

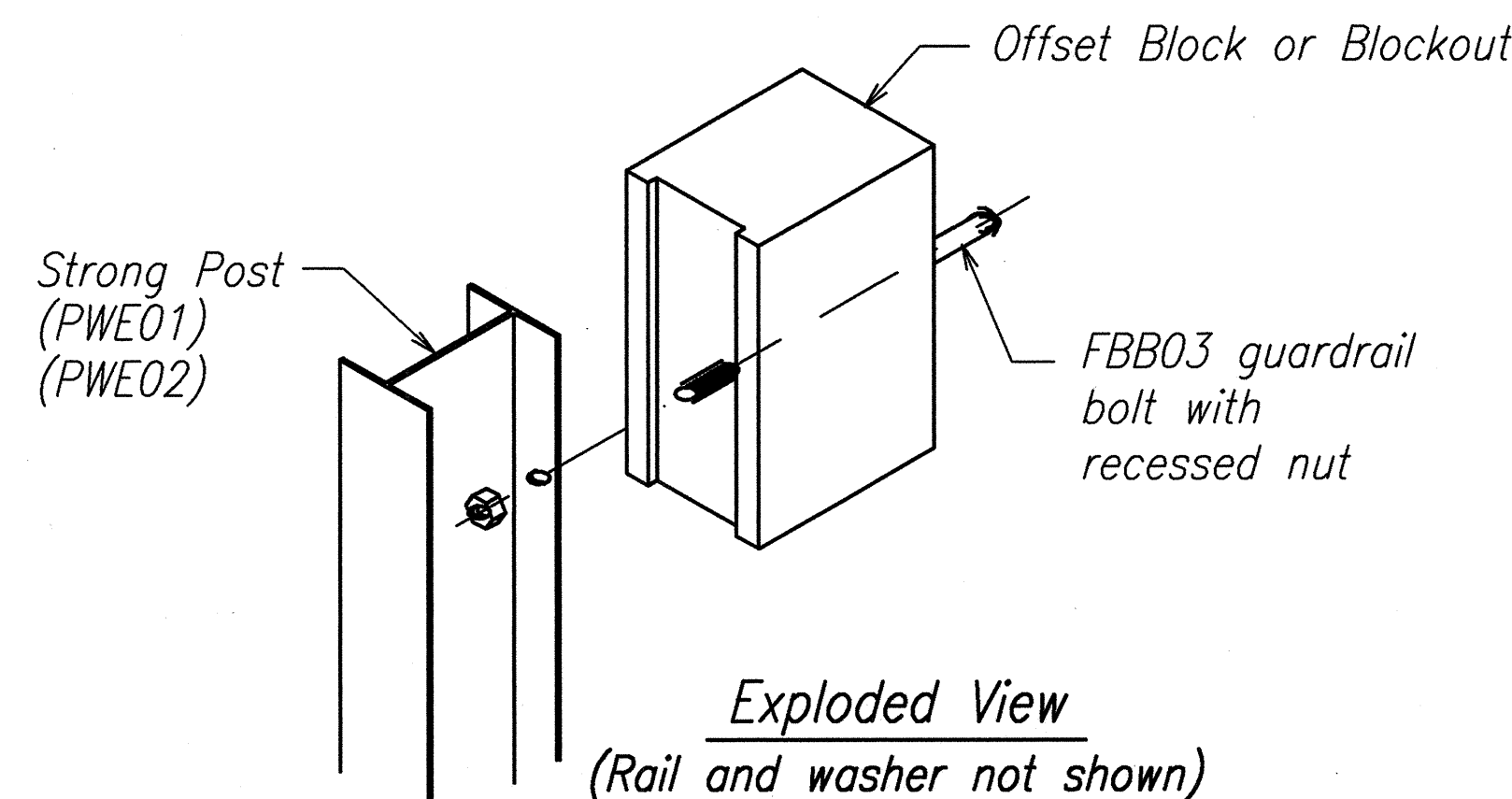
SHEET No. 1 OF 1 SHEETS



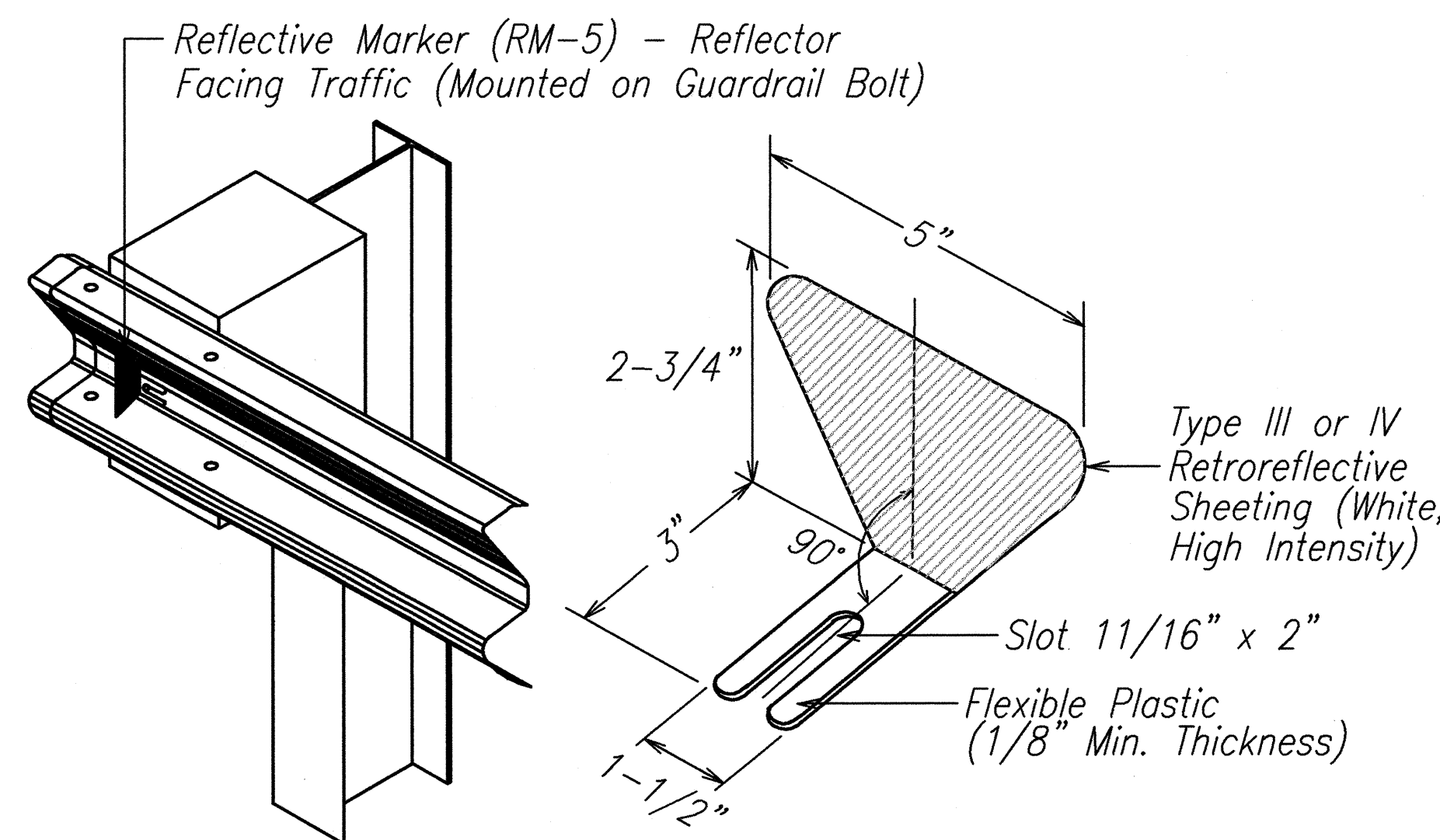
RECYCLED PLASTIC BLOCKOUT (TYPE I)



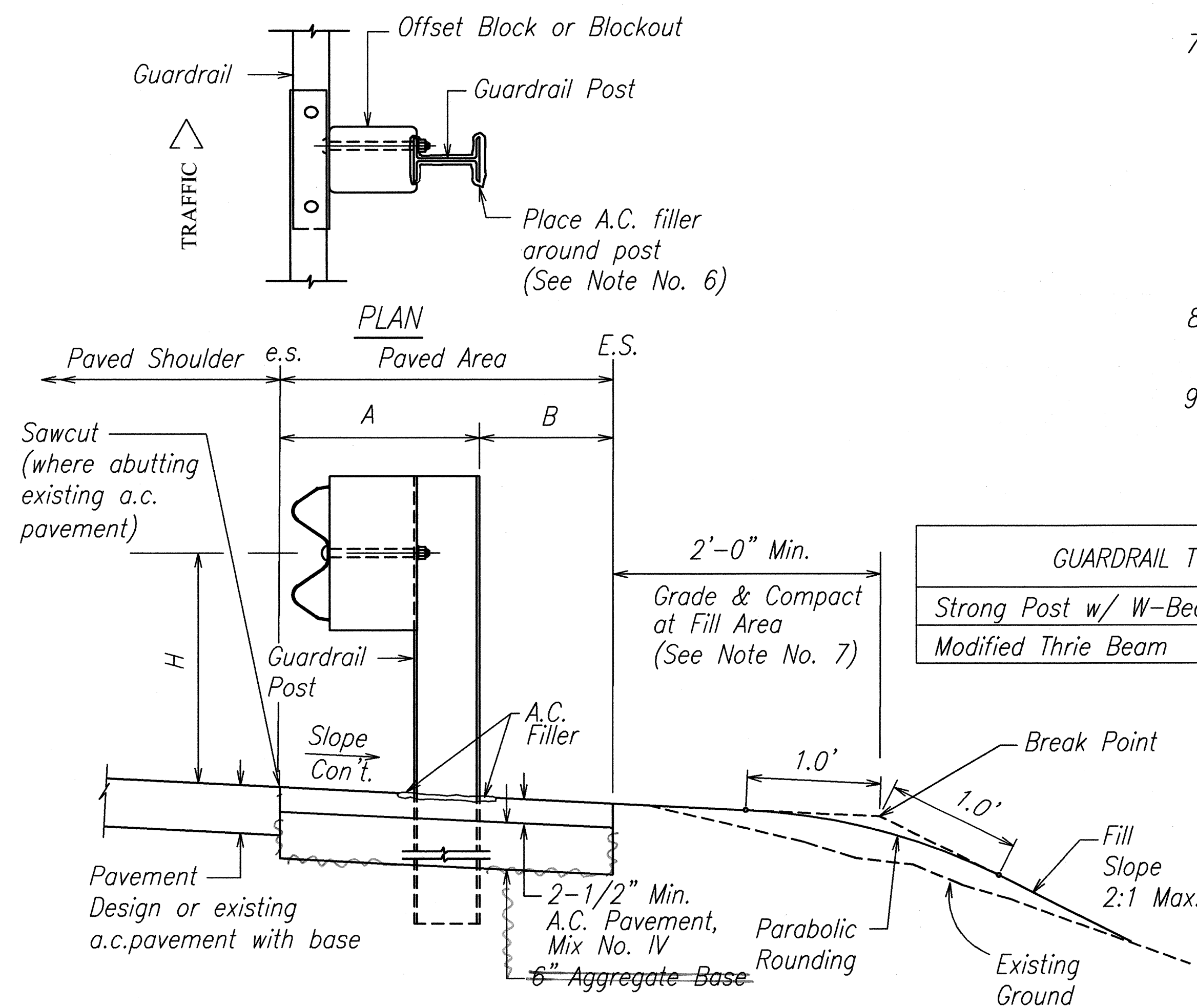
RECYCLED POLYETHYLENE  
OFFSET BLOCK (TYPE II)



STEEL POST AND BLOCK DETAIL



REFLECTOR MARKER (RM-5) DETAIL  
AND TYPICAL INSTALLATION



ELEVATION  
TYPICAL GUARDRAIL INSTALLATION

SURVEY PLOTTED BY	DATE
DRAWN BY	05/24/01
DESIGNED BY	05/24/01
QUANTITIES BY	05/24/01
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
DATE	
NO.	