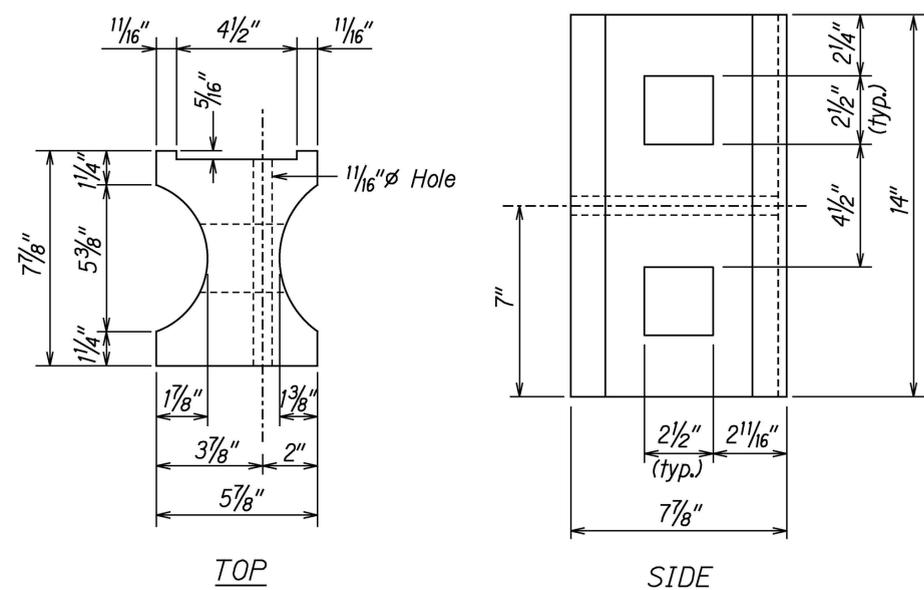
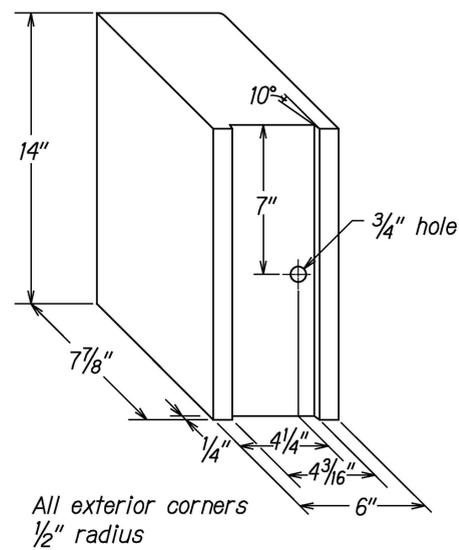


FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-23(001)	2021	19	109

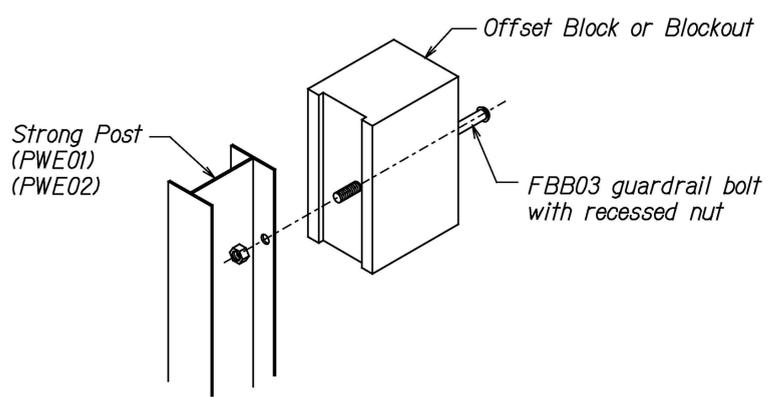


RECYCLED PLASTIC BLOCKOUT (TYPE I)

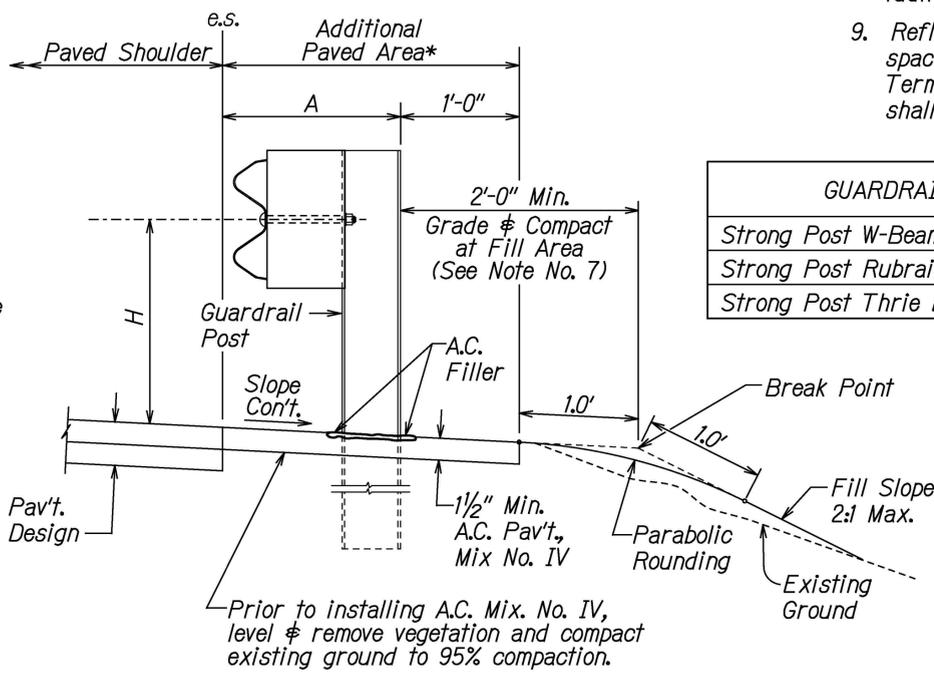
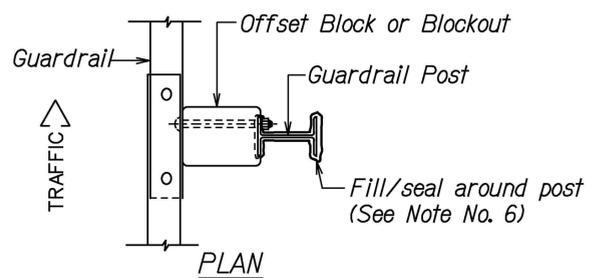


RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)

- 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 fasteners, 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.
 - All new guardrail systems (system consists of total length of guardrail including both end treatments) shall include the Additional Paved Area.
 - 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.
 - When standards for the fill slope area cannot be met, a site specific, engineer approved design may be used.
 - New A.C. pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.
 - 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.

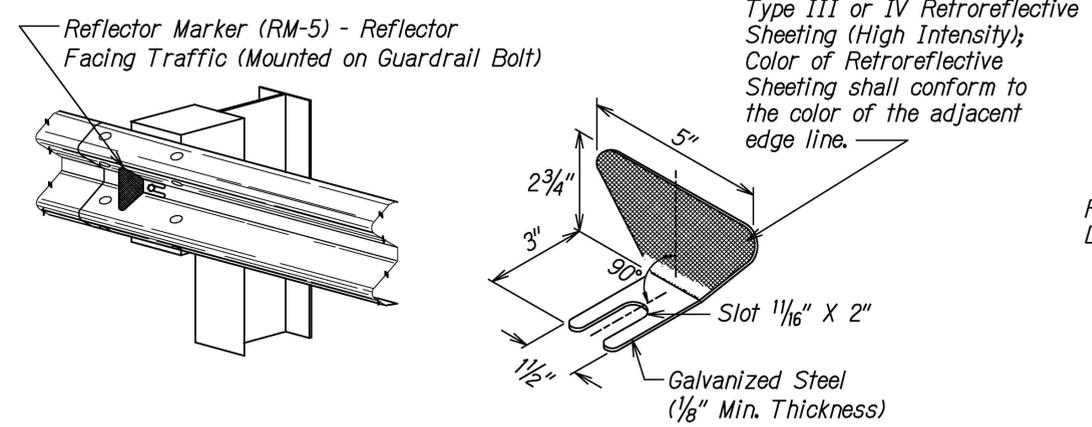


STEEL POST AND BLOCK DETAIL



TYPICAL GUARDRAIL INSTALLATION

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



REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
IN CHARGE	
NOTES	
NO.	

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: *R. Urasawa* 04/30/22
 EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

GUARDRAIL DETAILS & NOTES

KUHIO HIGHWAY
Repairs to Wailua River Bridge
Fed. Aid Project No. ER-23(001)

Scale: Not to Scale Date: Apr. 2021

SHEET No. P-3 OF 7 SHEETS