

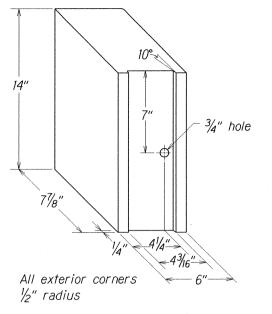
(Rail and washer not shown) STEEL POST AND BLOCK DETAIL

Type III or IV Retroreflective Reflector Marker (RM-5) - Reflector Sheeting (High Intensity)-Facing Traffic (Mounted on Guardrail Bolt) Slot 11/16" X 2" Galvanized Steel

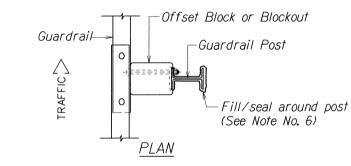
SURVEY PLOT
DRAWN BY X
TRACED BY
DESIGNED BY
OUANTITIES I

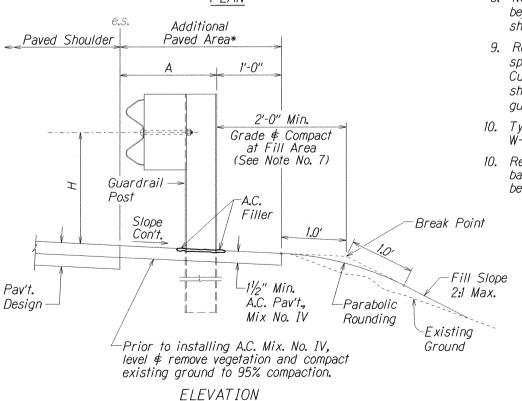
REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION

 $(\frac{1}{8}$ " Min. Thickness)



RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





TYPICAL GUARDRAIL INSTALLATION

GENERAL NOTES

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	36C-01-15M	2015	9	23

- 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 fastners, 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 areas, shoulder shall be grubbed, graded and paved as shown on the plan. Paved shoulder width shall be determined in the field and approved by the Engineer. This work will not be paid separately but shall be made under Item 401.0100 A.C. Pavement, Mix IV.
- 6. After the quardrail posts are installed in the paved area, the Contractor shall fill/seal around each quardrail 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 quardrail 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 quardrails shall extend 6 feet longitudinally beyond terminal ends. This work will not be paid separately but shall be made under Item No. 401.0100 A.C. Pavement, Mix IV.
- 9. Reflector Markers (RM-5) mounted on quardrails shall be spaced every 25 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. RM-5 on new quardrail shall be incidental to quardrail pay item.
- 10. Type G end terminals shall be paid for under Strong Post W-Beam Guardrail.
- 10. Removed guardrails and post shall be delivered to State Highways basevard, Kahului. This work shall not be paid separately but shall be considered incidental to quardrail pay items.

GUARDRAII TYPF	DIMENSION		
GUARDRAIL TIFE	Н	Α	
Strong Post W-Beam	1'-95/8"	1'-6"	
Strong Post Rubrail (W-Beam)	2'-0"	1′-6″	
Modified or Strong Post Thrie Beam	2'-0"	2'-0"	

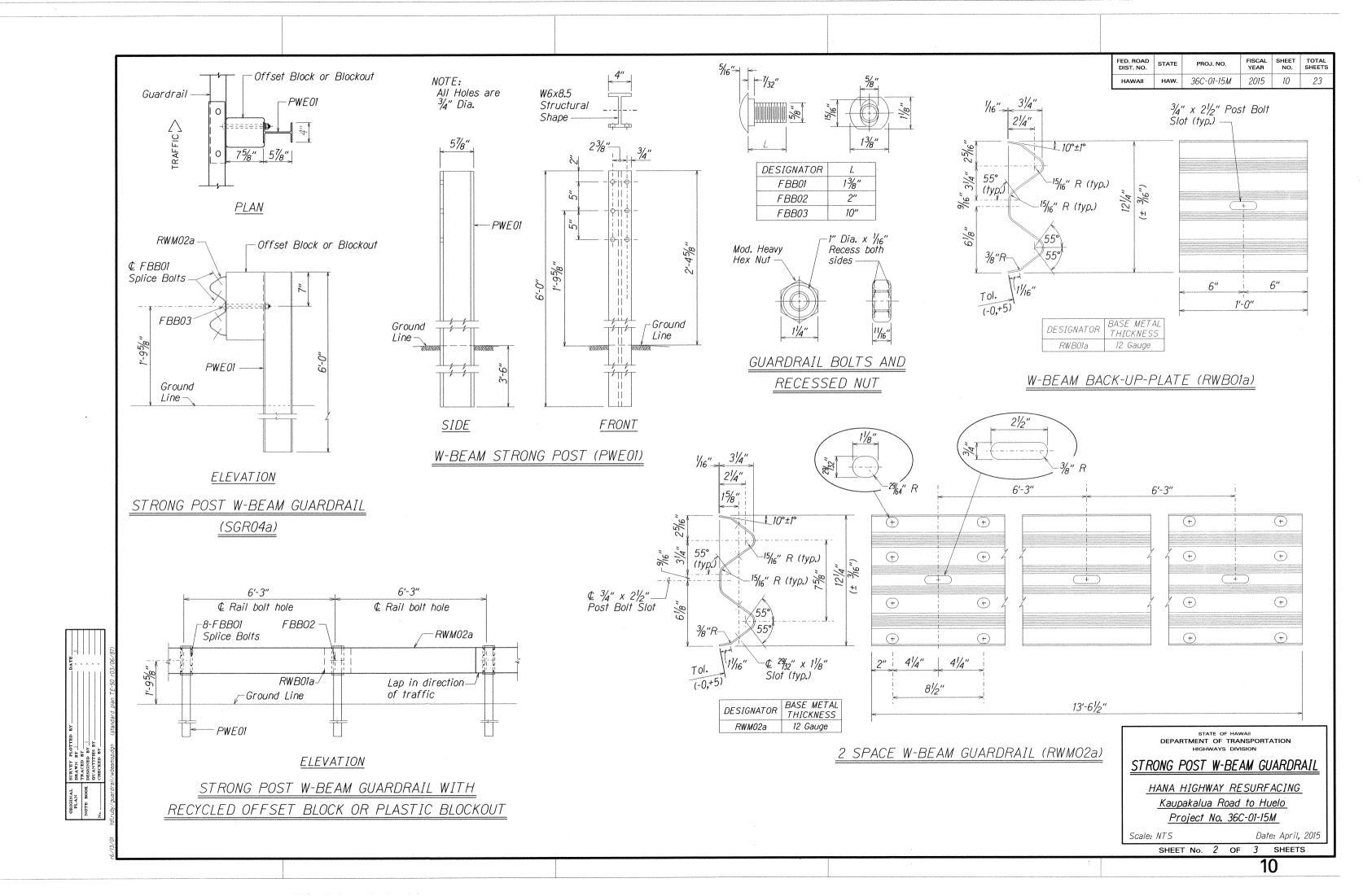
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

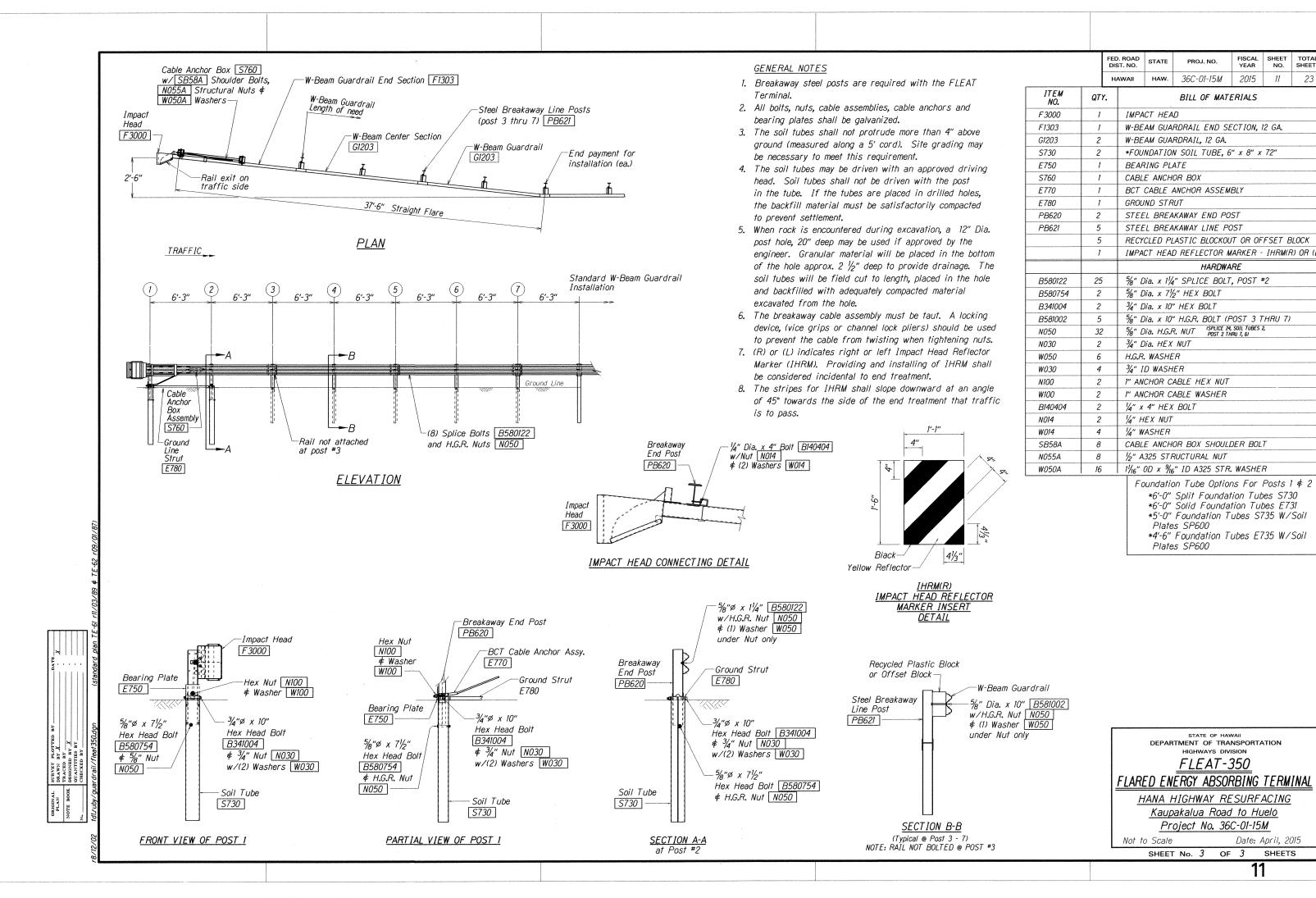
GUARDRAIL DETAILS \$ NOTES

HANA HIGHWAY RESURFACING Kaupakalua Road to Huelo

Project No. 36C-01-15M Scale: NTS Date: April, 2015

> SHEET No. 1 OF 3 SHEETS





SHEETS

TOTAL SHEETS

23

SHEET NO.

11