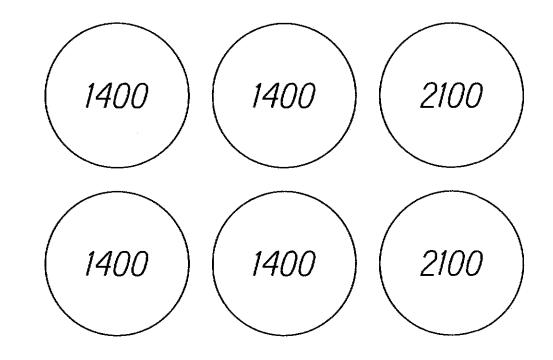
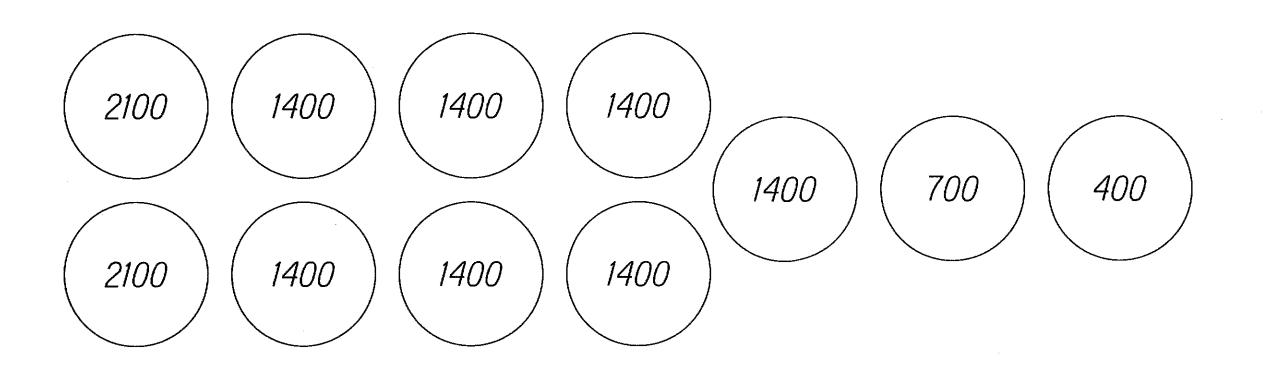
FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-083-1(072)	2015	ADD. 16	107



INERTIAL BARRIER SYSTEM (TYP. 25 MPH DESIGN) B STA. 375+45± TO B STA. 375+55± Scale: N.T.S.

Notes:

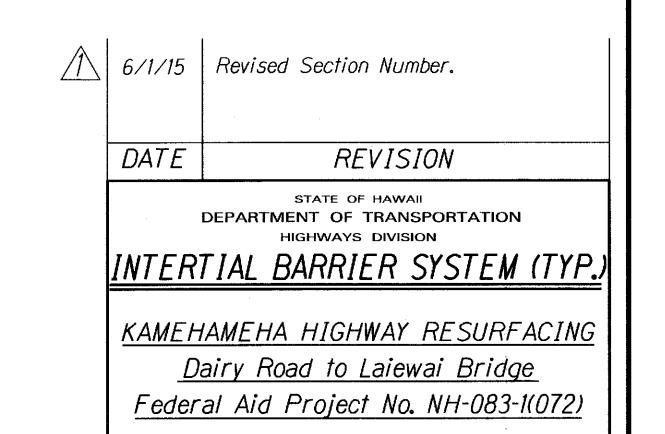
- 1. Install in front of trailing end of new Makai Delaware at B Sta. 375+55± as shown on the plans.
- 2. Supply an Inertial Barrier System meeting the requirements specified in Section 627 and install per manufacturer's recommendations.
 - 3. A total of three systems are to be provided for each location. One system will be installed at each site per the contract. The remaining two systems for each location shall be transported and stored at the Oahu District Office (727 Kakoi Street) or at a location to be determined by the Engineer.



INERTIAL BARRIER SYSTEM (TYP. 45 MPH DESIGN) B STA. 485+19± TO B STA. 485+44± Scale: N.T.S.

Notes:

- 1. Install in front of trailing end of new Makai Delaware at 图 Sta. 485+19± as shown on the plans.
- 2. Supply an Inertial Barrier System meeting the requirements specified in Section 627 and install per manufacturer's recommendations.
 - 3. A total of three systems are to be provided for each location. One system will be installed at each site per the contract. The remaining two systems for each location shall be transported and stored at the Oahu District Office (727 Kakoi Street) or at a location to be determined by the Engineer.



Scale: As Shown

 ORIGINAL
 SURVEY PLOTTED BY

 PLAN
 DRAWN BY

 NOTE BOOK
 DESIGNED BY

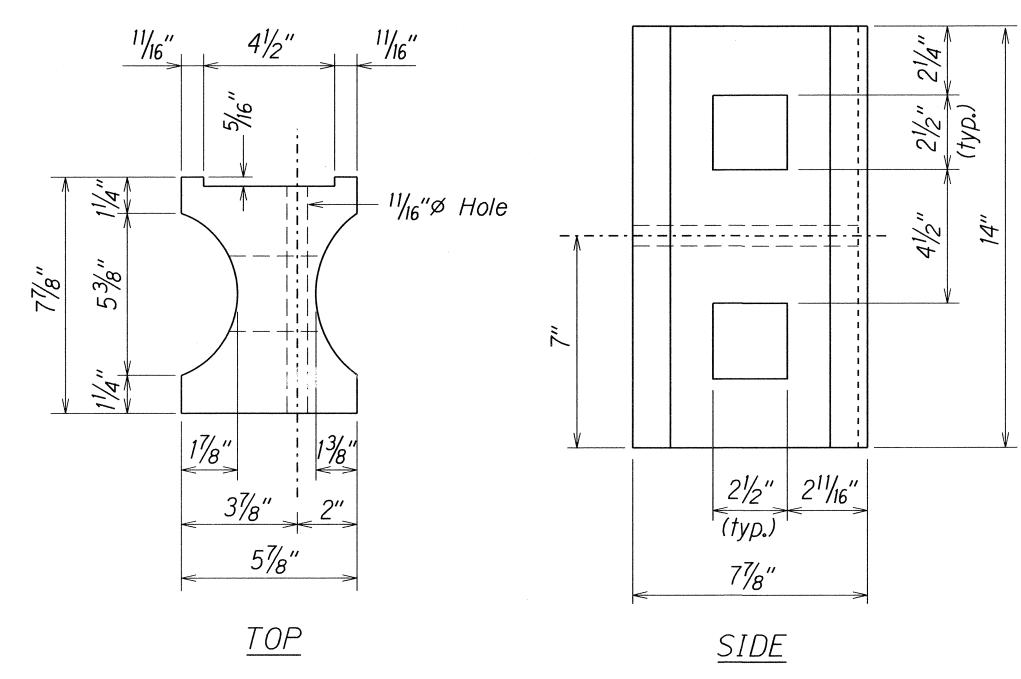
 QUANTITIES BY

 CHECKED BY

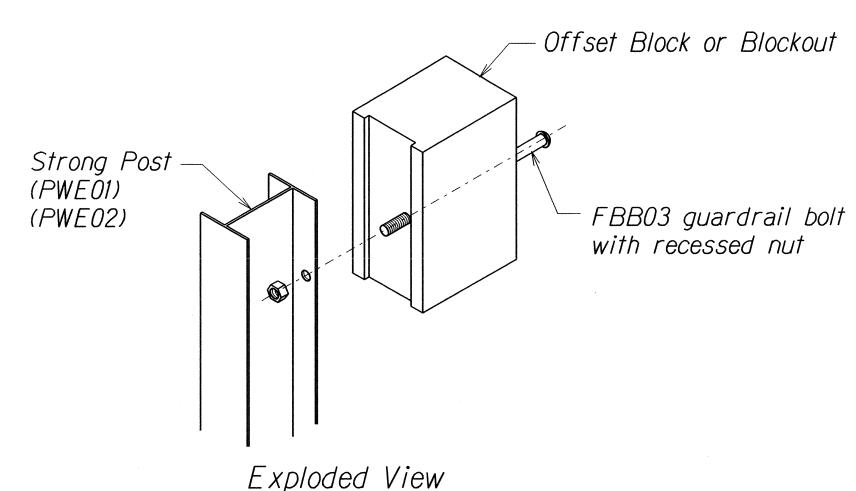
SHEET No. 1 OF 1 SHEETS

ADD. 16

Date: May, 2015



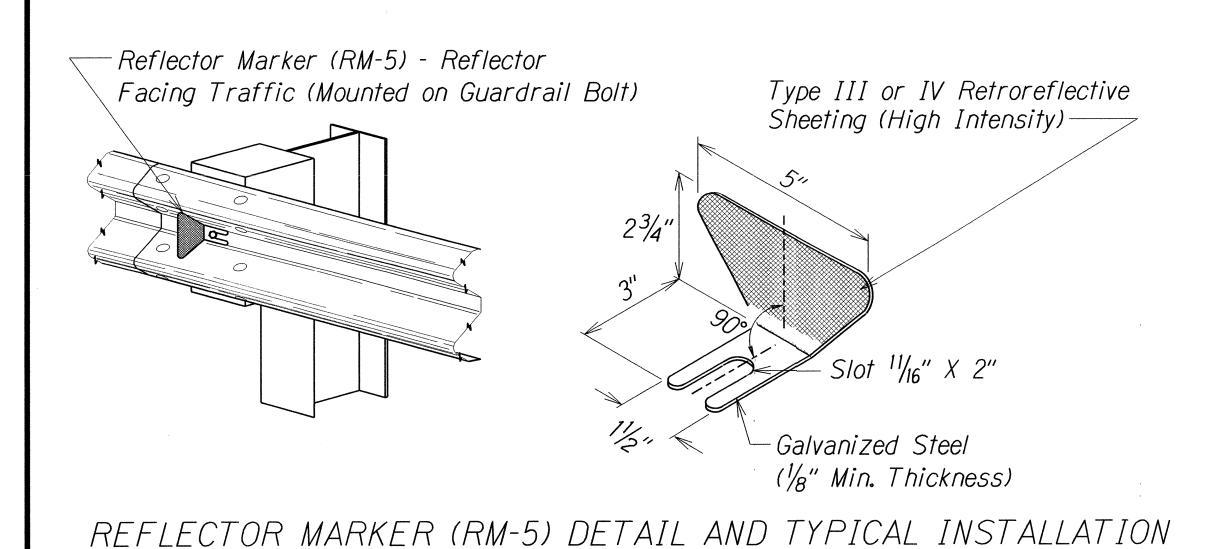
RECYCLED PLASTIC BLOCKOUT (TYPE I)

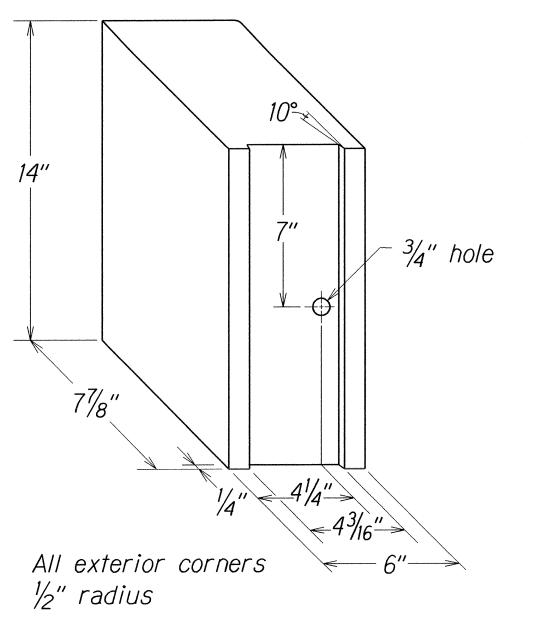


(Rail and washer not shown)

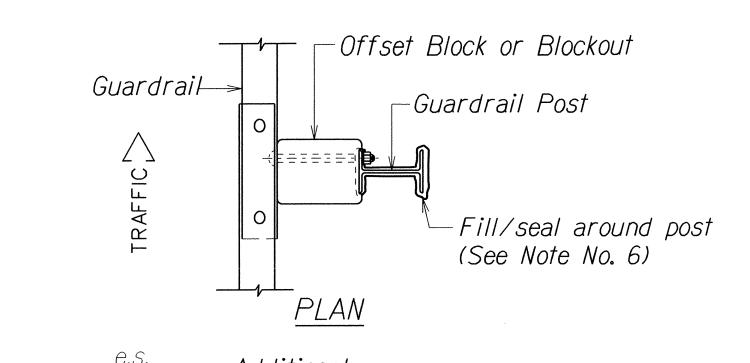
SURVEY PLOTTE
DRAWN BY X
TRACED BY
DESIGNED BY X
QUANTITIES BY
CHECKED BY

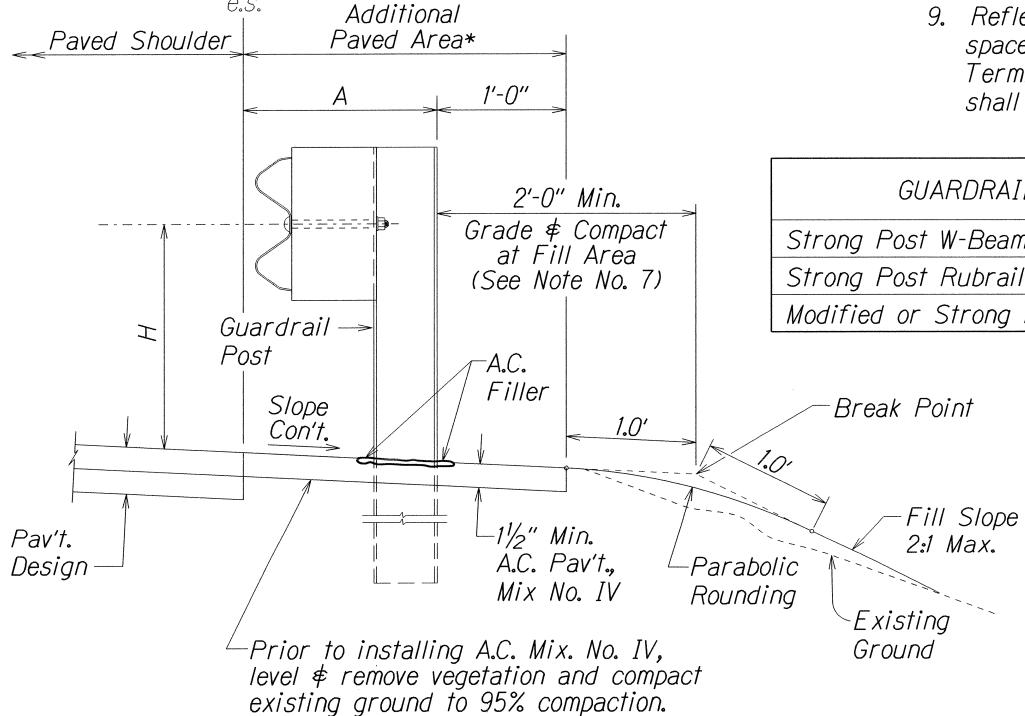
STEEL POST AND BLOCK DETAIL





RECYCLED POLYETHYLENE OFFSET BLOCK (TYPE II)





ELEVATION

TYPICAL GUARDRAIL INSTALLATION

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.

FED. ROAD DIST. NO. FED. AID PROJ. NO.

HAW. *NH-083-1(072)*

FISCAL YEAR

2015

SHEET TOTAL

SHEETS

NO.

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- 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 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.

GUARDRAIL TYPE	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"

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS & NOTES

KAMEHAMEHA HIGHWAY RESURFACING

<u>Dairy Road to Laiewai Bridge</u> <u>Federal Aid Project No. NH-083-1(072)</u>

Scale: N.T.S.

Date: May, 2015 **4** SHEETS

SHEET No. 1 OF 4

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