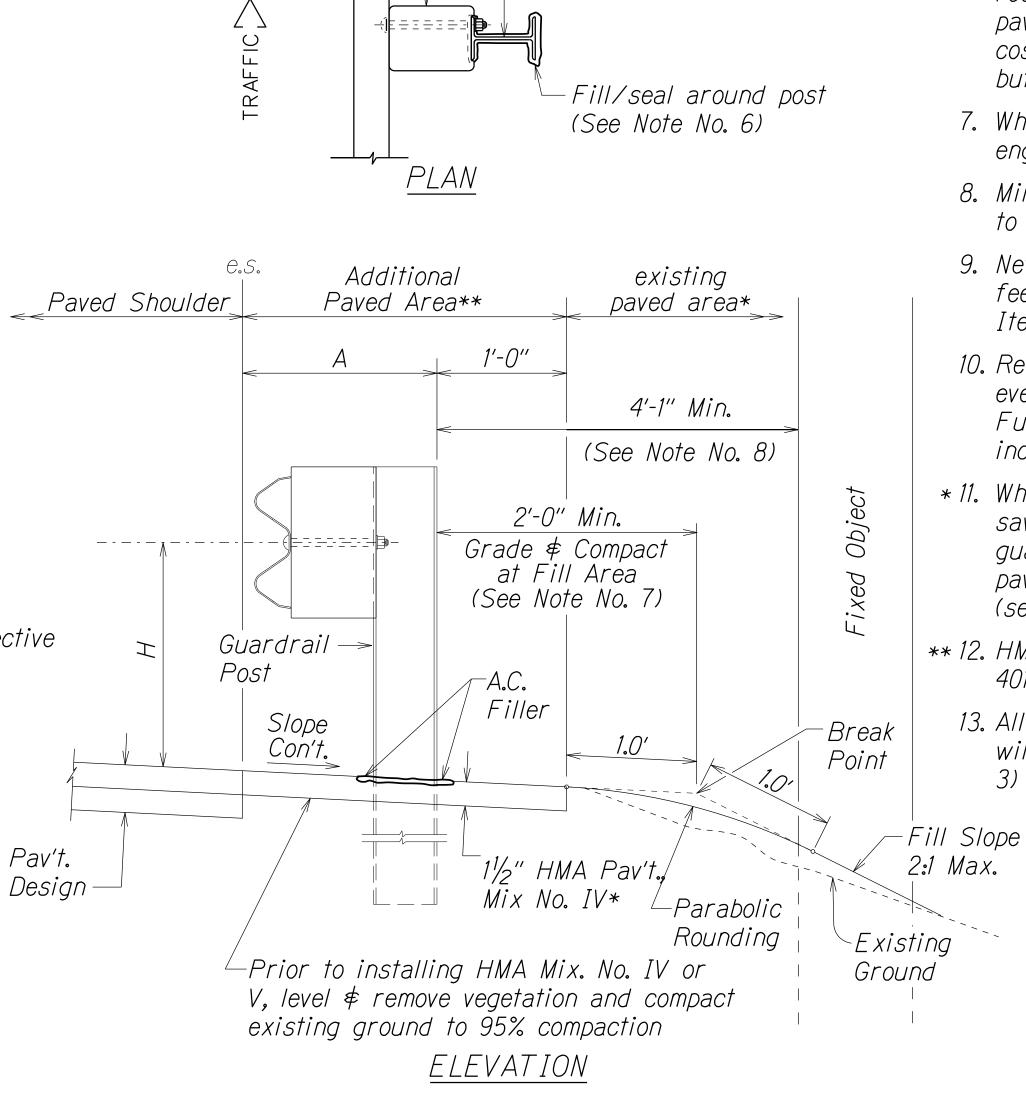
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	22	65

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 by the Engineer.
- 3. All fasteners, posts, and rail elements (i.e. FBB03, PWE01, RWM04b, 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 Blockout 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. Minimum working width (clear distance) between back of MGS post to any fixed object is 4'-1" (49").
- 9. New Hot Mix Asphalt (HMA) pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends. Work shall be paid under Item 401.2000 - HMA Pavement, Mix No. IV (Under Guardrail).
- 10. 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 guardrail system.
- * 11. Where A.C. pavement exists under and behind existing guardrail, sawcut and remove existing A.C. pavement up to 1'-0" behind new guardrail. Apply tack coat to sawcut face prior to placing new HMA pavement. Work shall be considered incidental to guardrail installation (see Note 13).
- ** 12. HMA Pavement for Additional Paved Area shall be paid under Item 401.2000 - HMA Pavement, Mix No. IV (Under Guardrail)
- 13. All work related to guardrail installation except for HMA Pavement will be considered incidental to Item 606.1000 - MGS Guardrail (Type 3) or Item 606.1100 - MGS Guardrail (Type 3) with 8' posts at 6'-3" o.c.

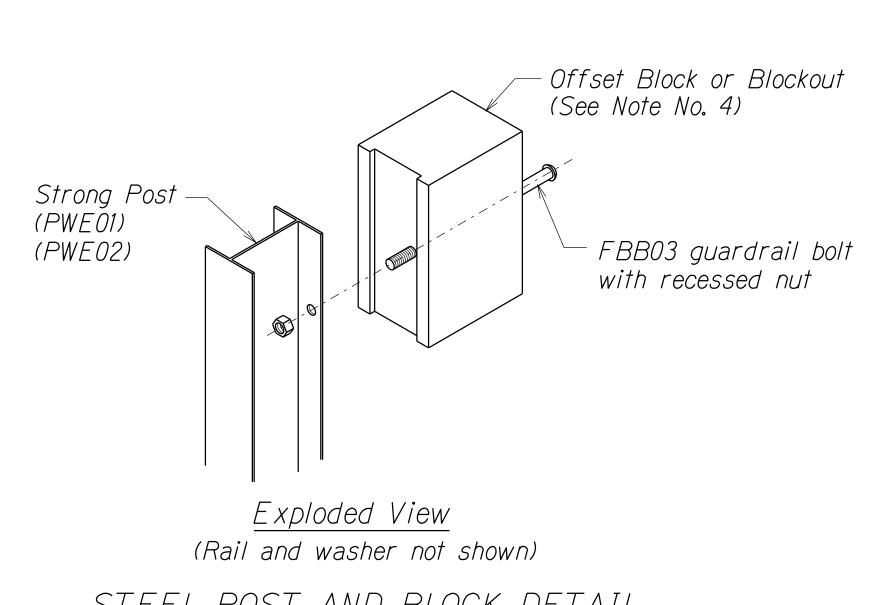


DIMENSION GUARDRAIL TYPE 2'-1" 1'-6'' MGS w/ Standard 8" Offset Block 2'-7/8" MGS w/ No Blockout

Guardrai*l*-

-Offset Block or Blockout

-Guardrail Post



STEEL POST AND BLOCK DETAIL

Reflector Marker (RM-5) - Reflector Facing Traffic (Mounted on Guardrail Between Posts with FBB01)

Type III or IV Retroreflective Sheeting (High Intensity); Color of Retroreflective Sheeting shall conform to the color of the adjacent edge line

Slot 11/16" X 2" Approved Plastic Product

REFLECTOR MARKER (RM-5) DETAIL AND TYPICAL INSTALLATION

TYPICAL GUARDRAIL INSTALLATION

HIGHWAYS DIVISION

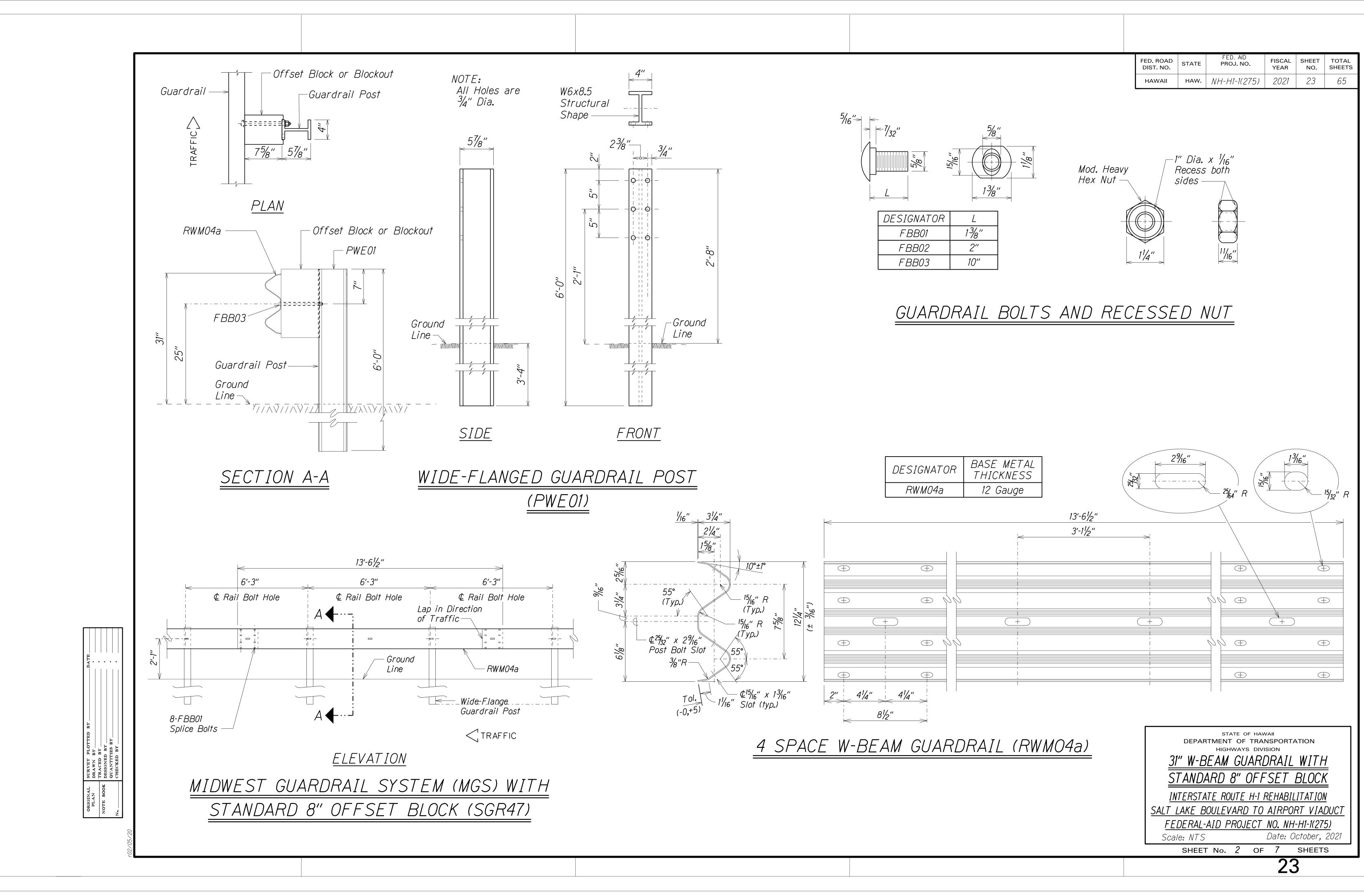
GUARDRAIL DETAILS \& NOTES

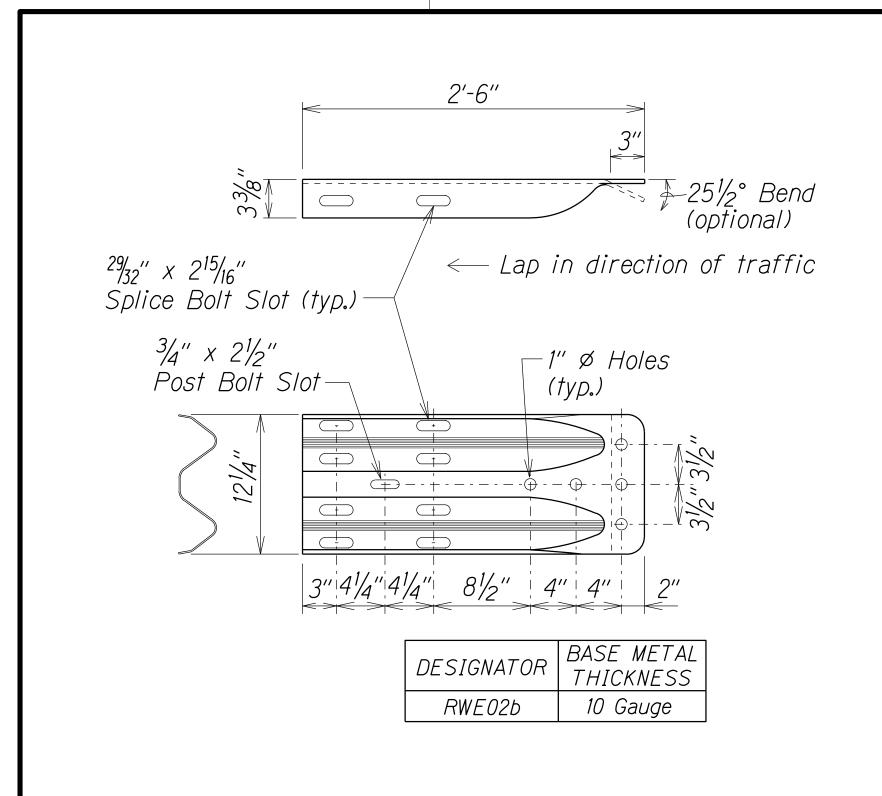
INTERSTATE ROUTE H-1 REHABILITATION SALT LAKE BOULEVARD TO AIRPORT VIADUCT FEDERAL-AID PROJECT NO. NH-H1-1(275)

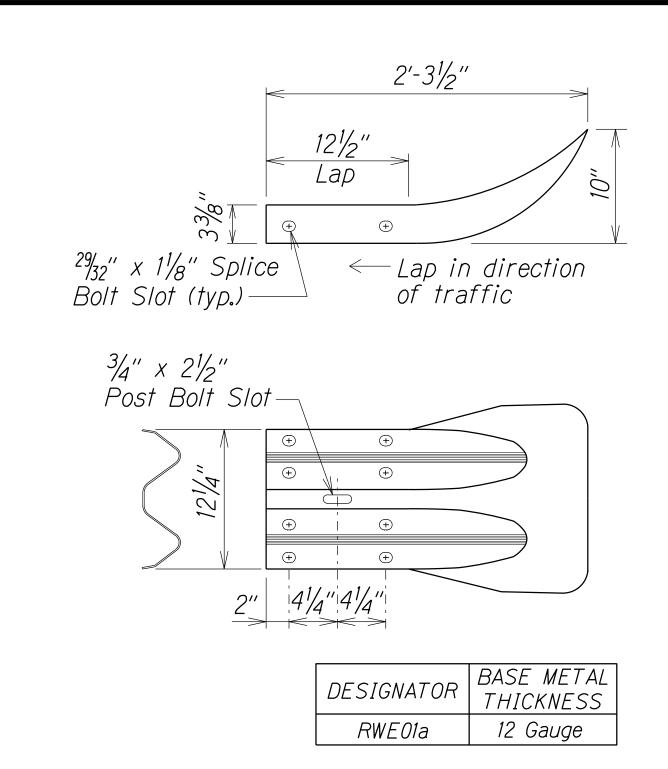
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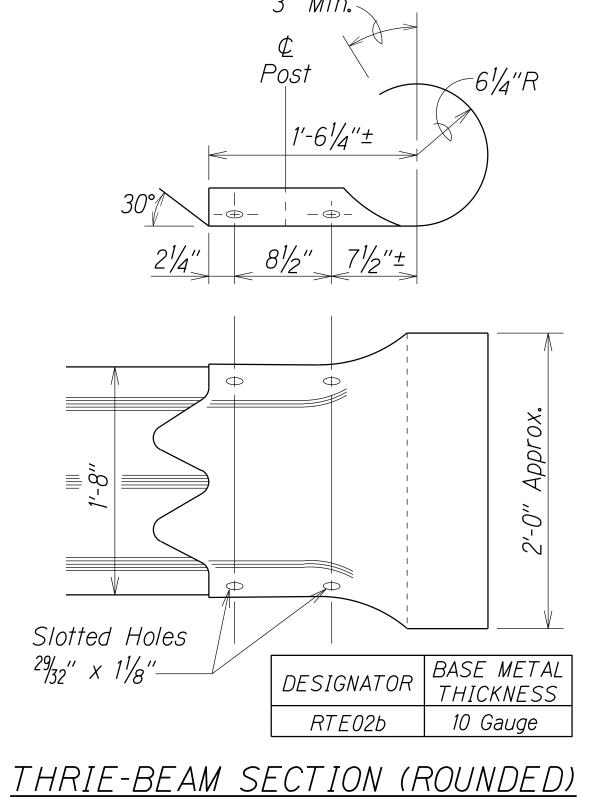
Date: October, 2021

OF 7 SHEETS SHEET No. 1

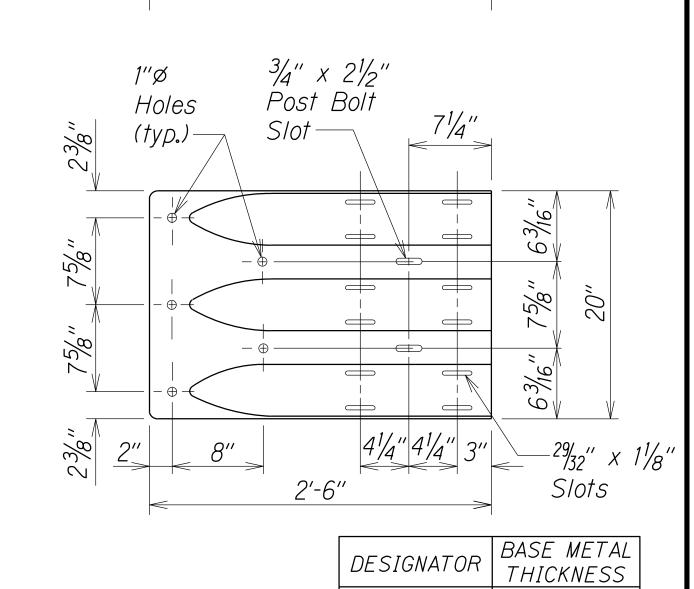








(RTE02b)



FED. AID PROJ. NO.

HAW. *NH-H1-1(275)*

-⊕- ∣

2'-6"

FED. ROAD DIST. NO.

HAWAII

FISCAL SHEET TOTAL YEAR NO. SHEETS

24

65

2021

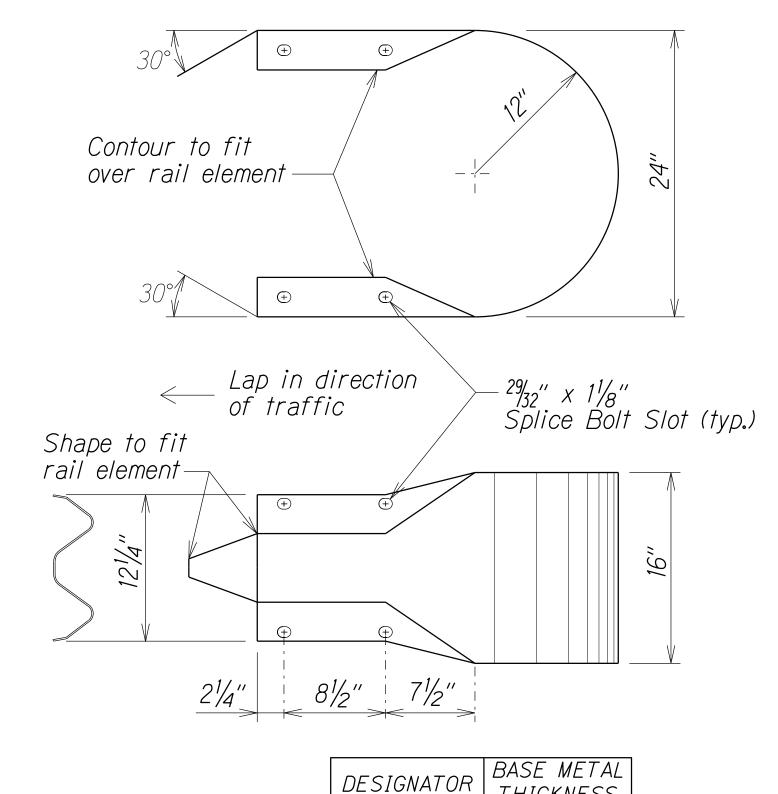
<u>W-BEAM END SECTION (FLARED RWE01a)</u>

THRIE-BEAM

TERMINAL CONNECTOR

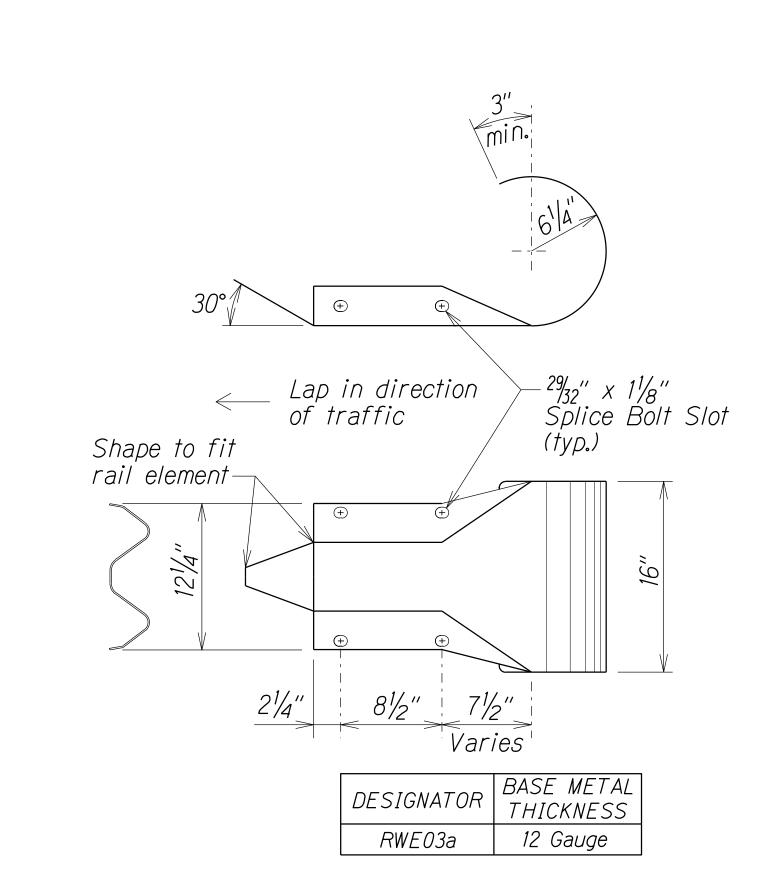
(RTE01b)

W-BEAM TERMINAL CONNECTOR (RWE02b)

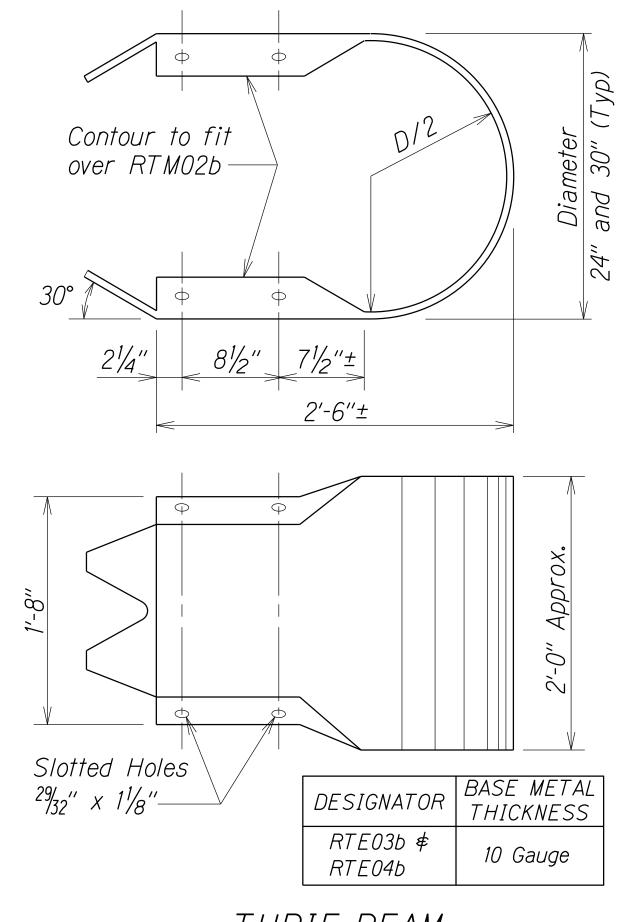


	DESIGNATOR	BASE METAL THICKNESS	
	RWE06a	12 Gauge	
W-BEAM END SEC	TION (BU)	FFER RW	'E06a)

SURVEY PLOTTE
DRAWN BY ____
TRACED BY ___
DESIGNED BY ___
QUANTITIES BY ___
CHECKED BY ___



W-BEAM END SECTION (ROUNDED RWE03a)



THRIE-BEAM

END SECTION (BUFFER RTE03b

or RTE04b)

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL TERMINAL CONNECTORS

AND END SECTIONS

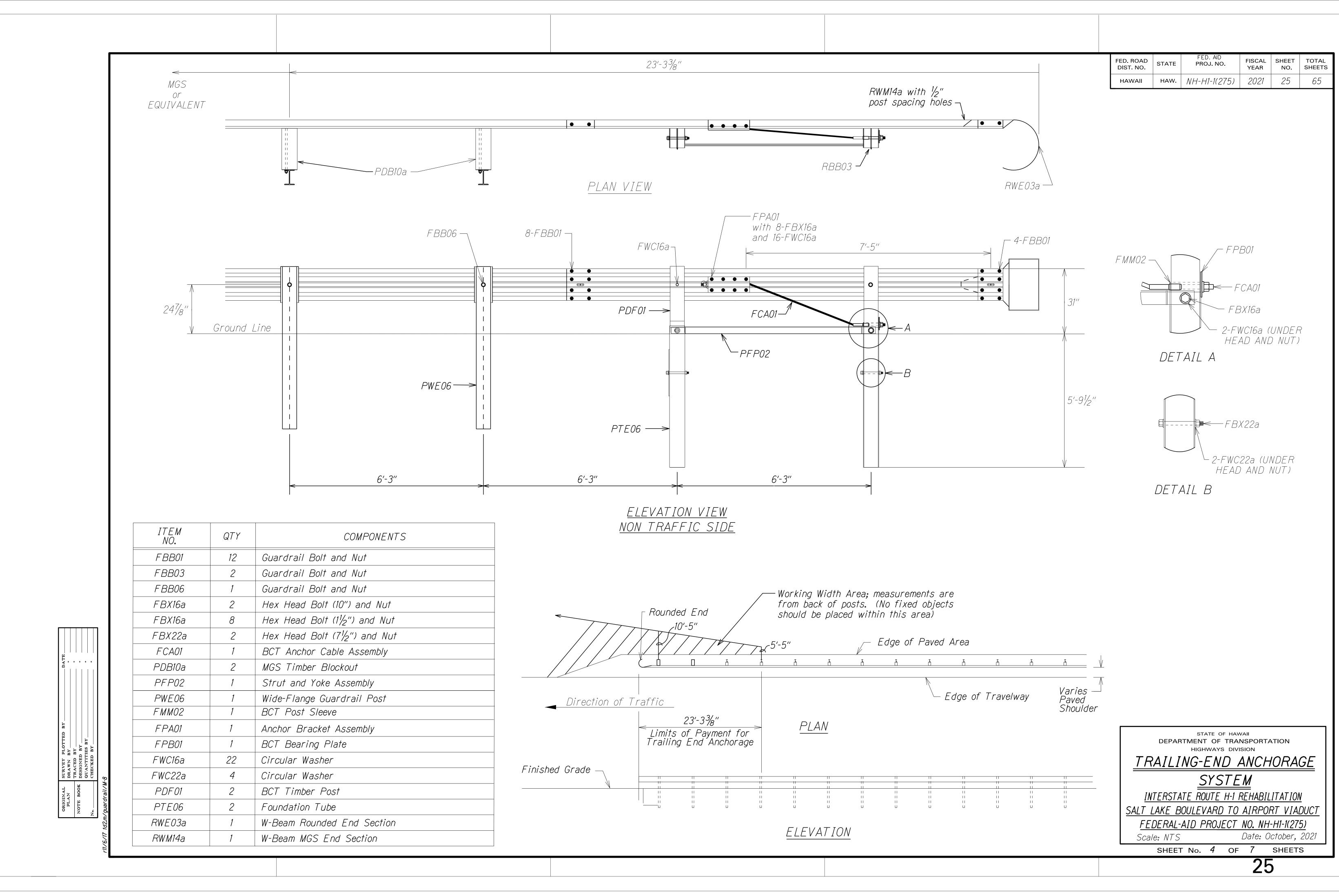
INTERSTATE ROUTE H-1 REHABILITATION

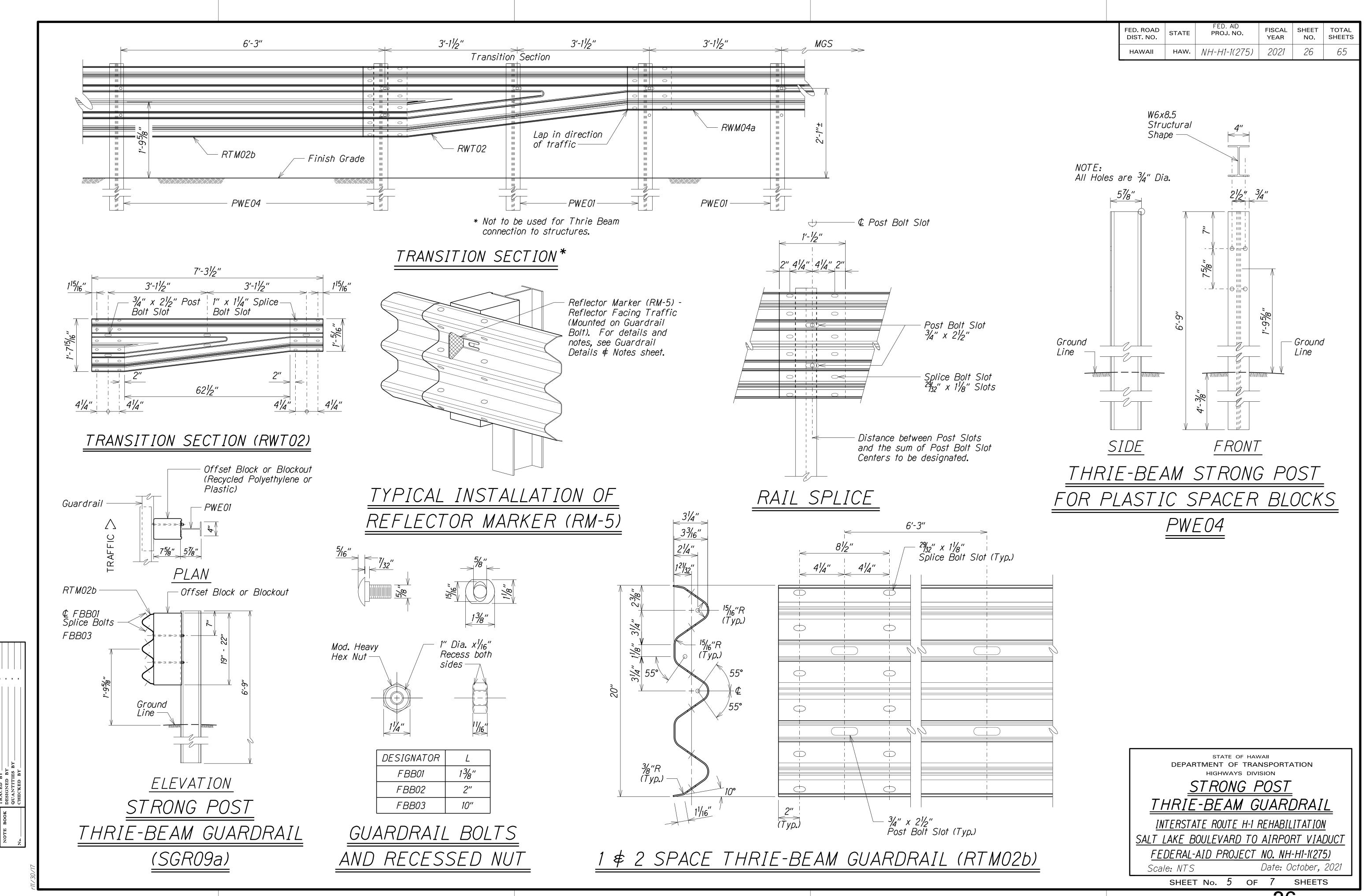
SALT LAKE BOULEVARD TO AIRPORT VIADUCT

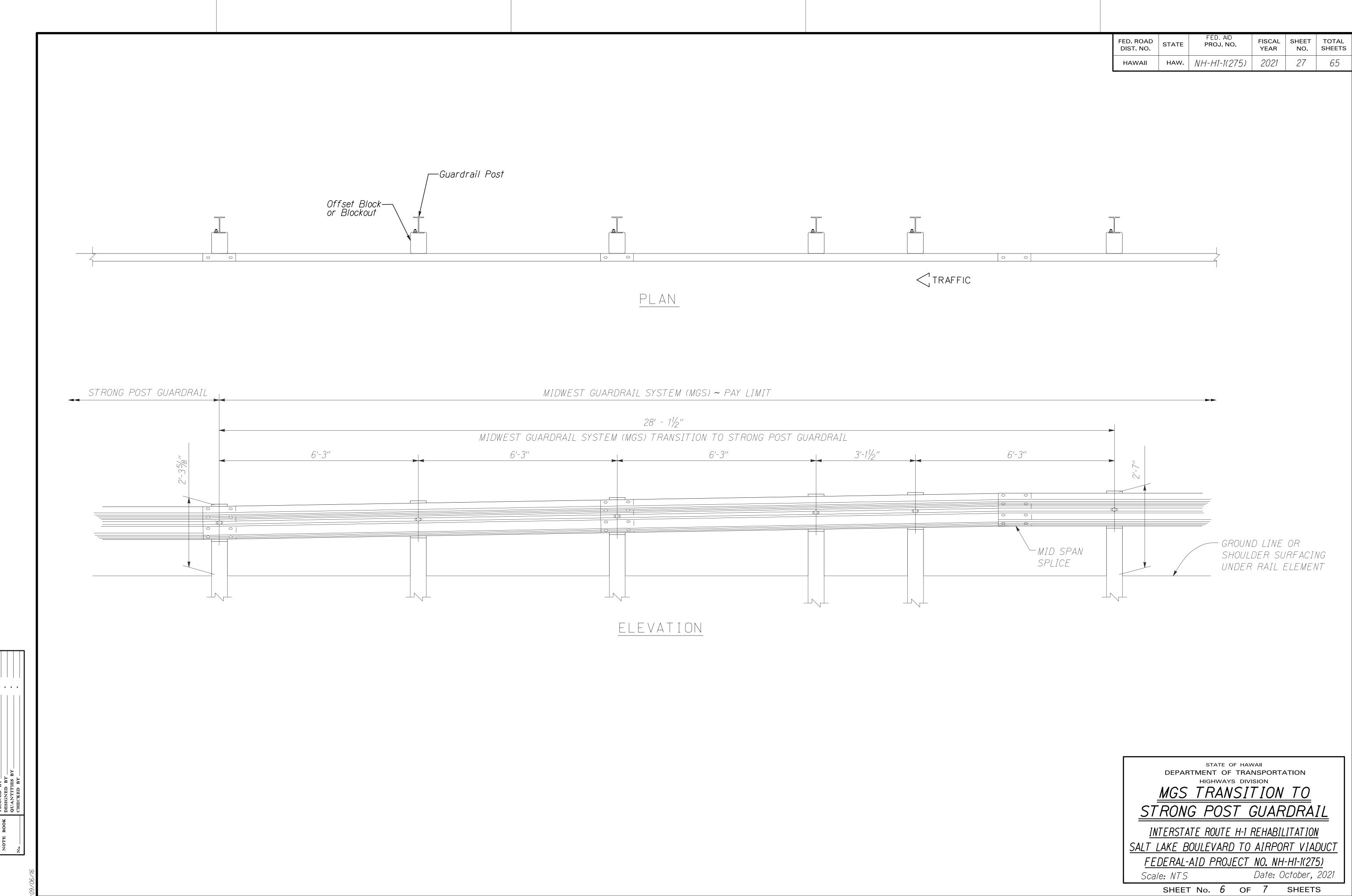
FEDERAL-AID PROJECT NO NH-H1-1(275)

FEDERAL-AID PROJECTNO. NH-H1-1(275)Scale: NTSDate: October, 2021

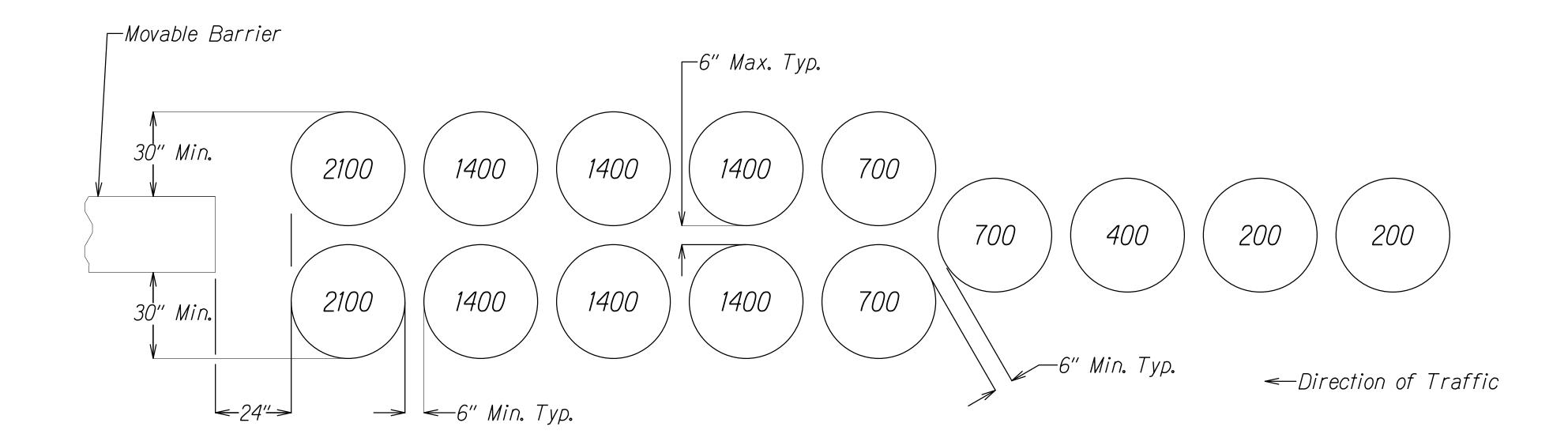
SHEET No. 3 OF 7 SHEETS







FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	NH-H1-1(275)	2021	28	65



INERTIAL BARRIER SYSTEM (MASH TEST LEVEL 3) Scale: N.T.S.

Notes:

1. Inertial Barrier Systems used in this project shall meet the requirements specified in Section 621 and shall be installed per manufacturer's recommendations.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

<u>INERTIAL BARRIER SYSTEM (TY</u>A

INTERSTATE ROUTE H-1 REHABILITATION

SALT LAKE BOULEVARD TO AIRPORT VIADUCT

FEDERAL-AID PROJECT NO. NH-H1-1(275)

Scale: NTS

Date: October, 2021

SHEET No. 7 OF 7 SHEETS