

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	ER-25(001)	2023	17	34

GUARDRAIL 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 fasteners, posts and rail elements have been converted from metric units into their present form.

4. The blockout of offset block shall be approved by the state.
5. All new guardrail systems (systems consists of total length of guardrail including both end treatments) shall include the additional paved area.

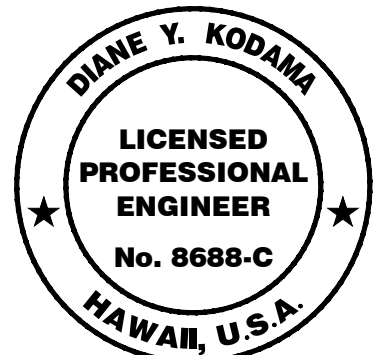
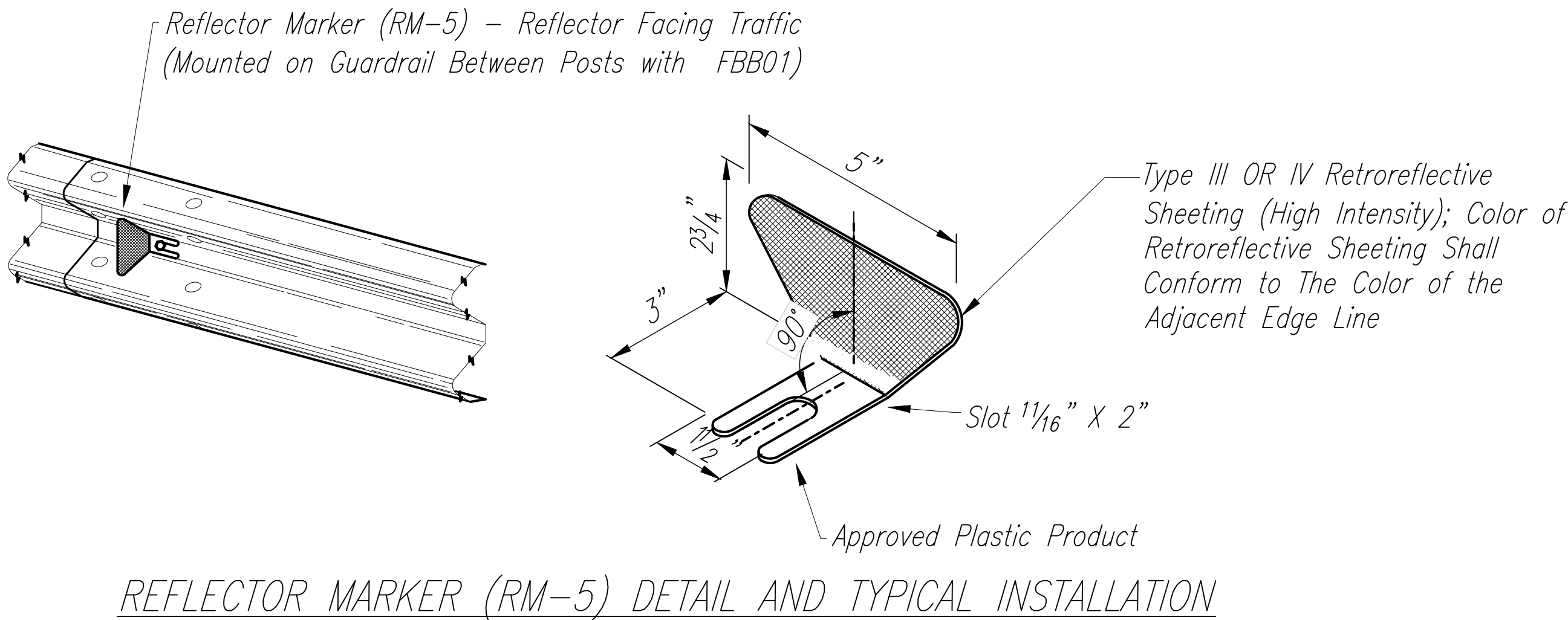
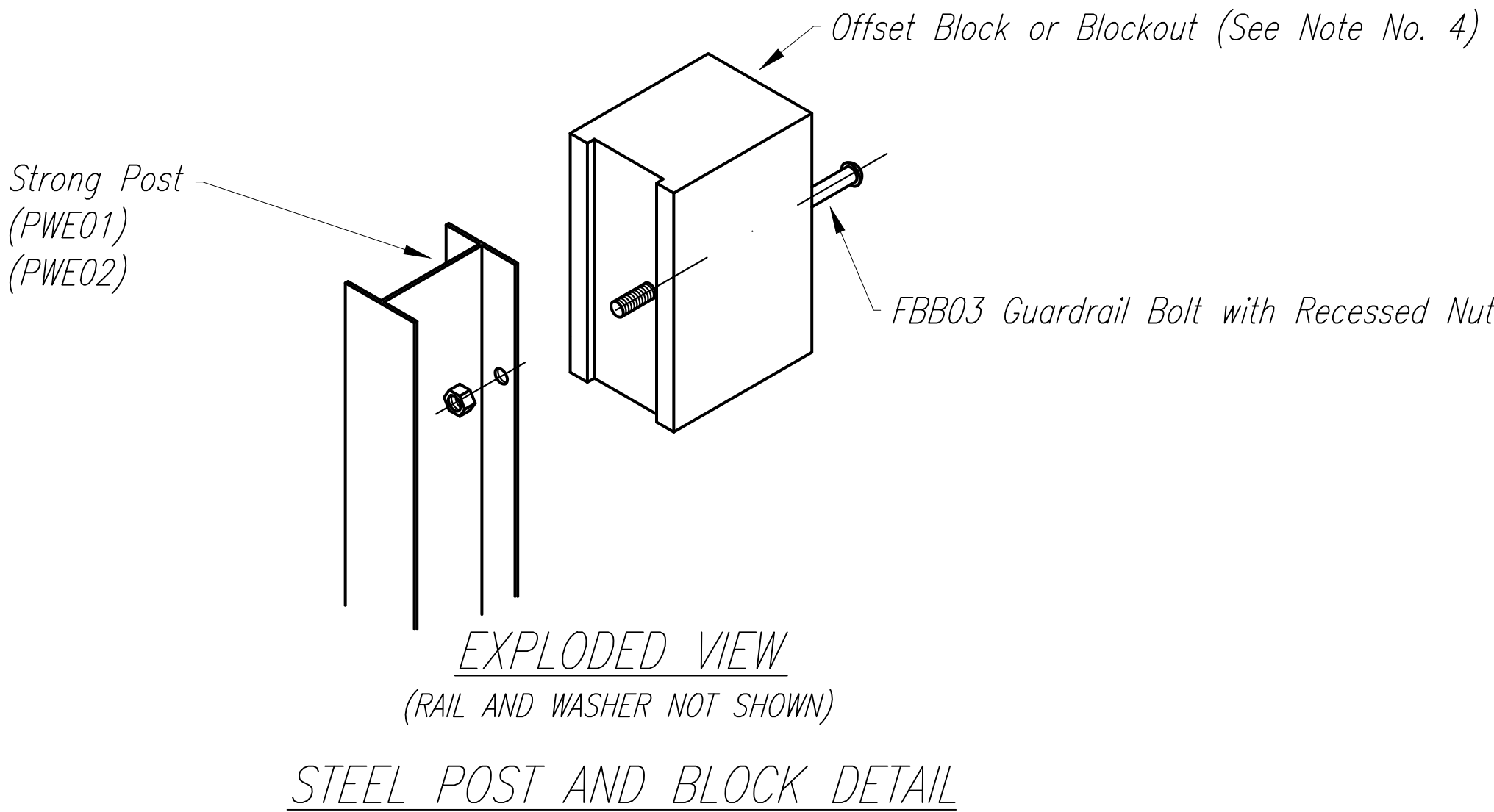
6. After the guardrail posts are installed in the paved area, the contractor shall fill/seal around each guardrail posts and all cracks in the paved area caused during the guardrail posts installation. If required by the inspector/engineer, the contractor shall tamper the paved area around the guardrail post prior to filling/sealing. All costs associated with this 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 objects is 4'-1"(49").
9. New Hot Mix Asphalt (HMA) pavement at guardrails shall extend 6 feet longitudinally beyond terminal ends.

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. Details shown on this sheet reference the HDOT Statewide Guidance for Permanent Highway Safety Hardware, Memorandum HWY-TD 17-2.0314, and is intended only for the contractor's information. Guardrails including all hardware, posts, spacing, height, etc. shall be installed per manufacturer's guidelines and details.



LICENSE EXPIRES 4/30/24  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

*[Signature]*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GUARDRAIL DETAILS

KEKAULIKE AVENUE, EMERGENCY REPAIRS

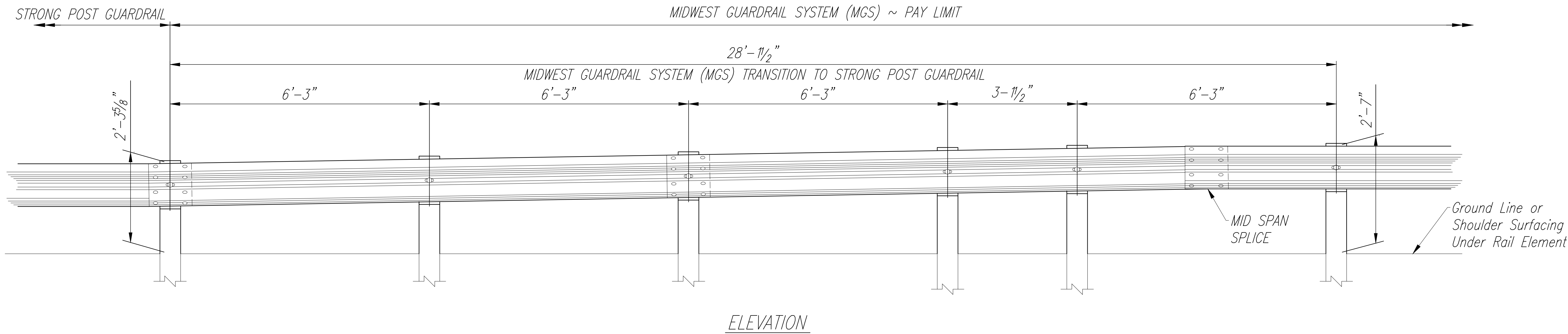
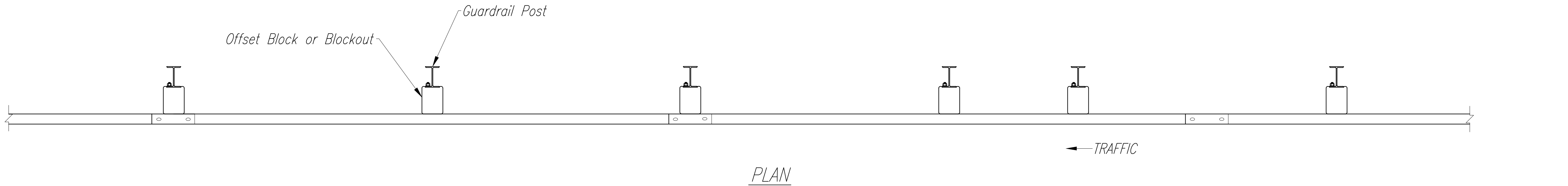
M.P. 8.2

Federal-Aid Project No. ER-25(001)

Scale: As Noted Date: March 2023

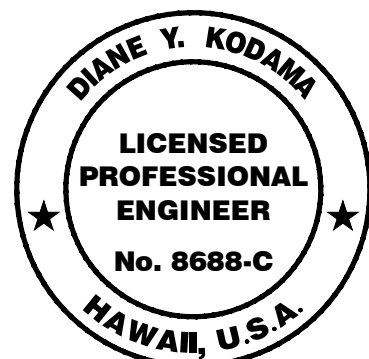
SHEET No. 1 OF 2 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
MAUI	HAW.	ER-25(001)	2023	18	34



MGS TRANSITION TO STRONG POST GUARDRAIL  
*Not to Scale*

NOTE:  
Details shown on this sheet reference the HDOT Statewide Guidance for Permanent Highway Safety Hardware, Memorandum HWY-TD 17-2.0314, and is intended only for the contractor's information. Guardrails including all hardware, posts, spacing, height, etc. shall be installed per manufacturer's guidelines and details.



LICENSE EXPIRES 4/30/24  
THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION

*[Signature]*

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

GUARDRAIL DETAILS

KEKAULIKE AVENUE, EMERGENCY REPAIRS  
M.P. 8.2  
Federal-Aid Project No. ER-25(001)  
Scale: As Noted      Date: March 2023

SHEET No. 2 OF 2 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	" "
No.	DESIGNED BY	" "
	QUANTITIES BY	" "
	CHECKED BY	" "

PROJECT NAME: USCS Project Lanes/USCS/000-Hwy (00000000) 44-09-2022 @ 11:44 am PLOT DATE: 44-09-2023 @ 10:34 am