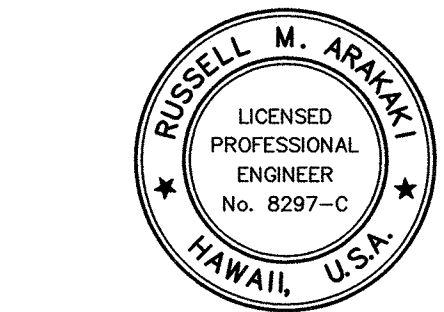


GENERAL NOTES

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.
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.

NOTES:

- * Applicable when Strong Post W-Beam Guardrail with 8' long post is installed.
- ** Applicable when Midwest Guardrail System is installed.



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Russell M. Araki
P.E., Inc. APR 30, 2022
dba PARK ENGINEERING LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

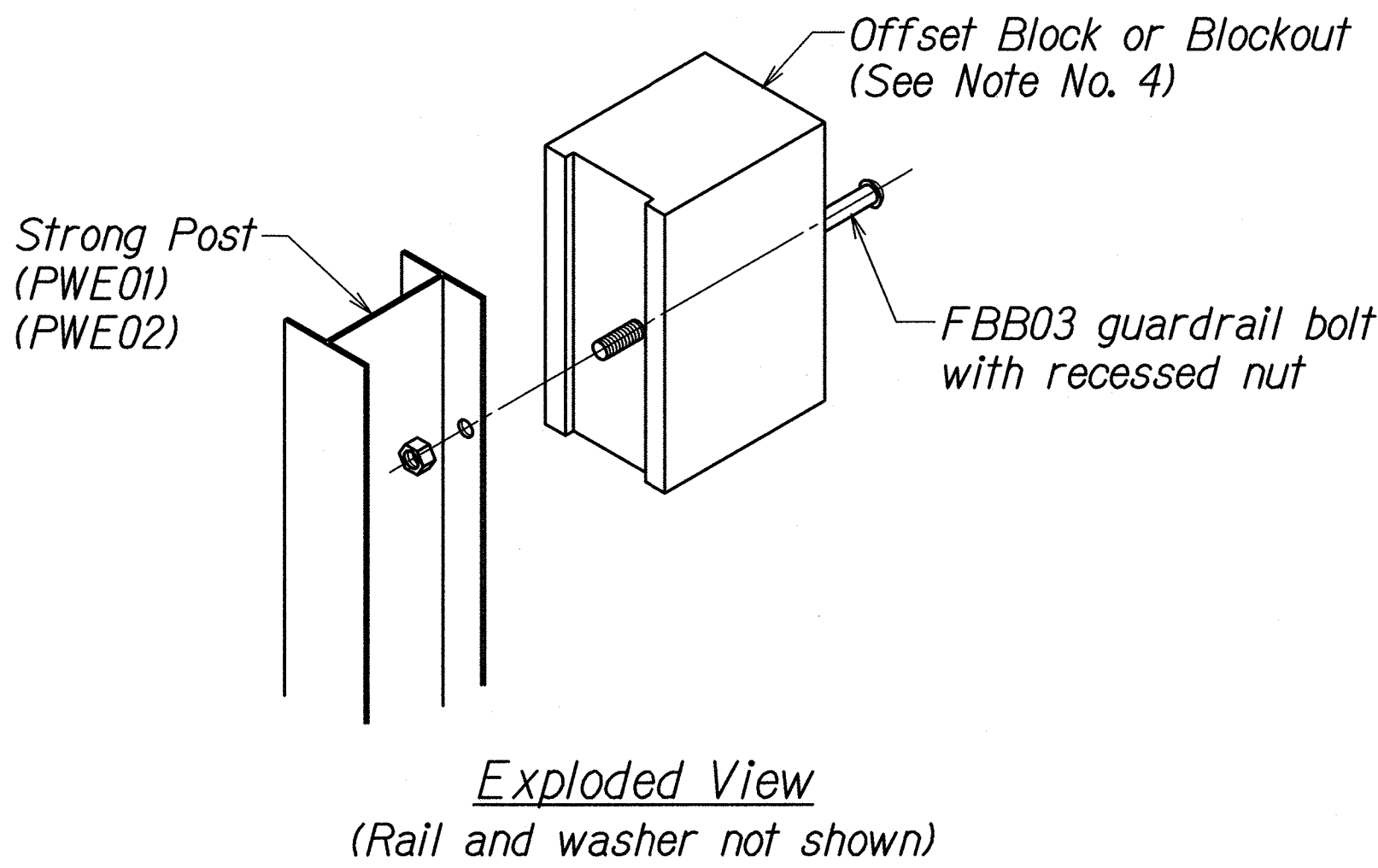
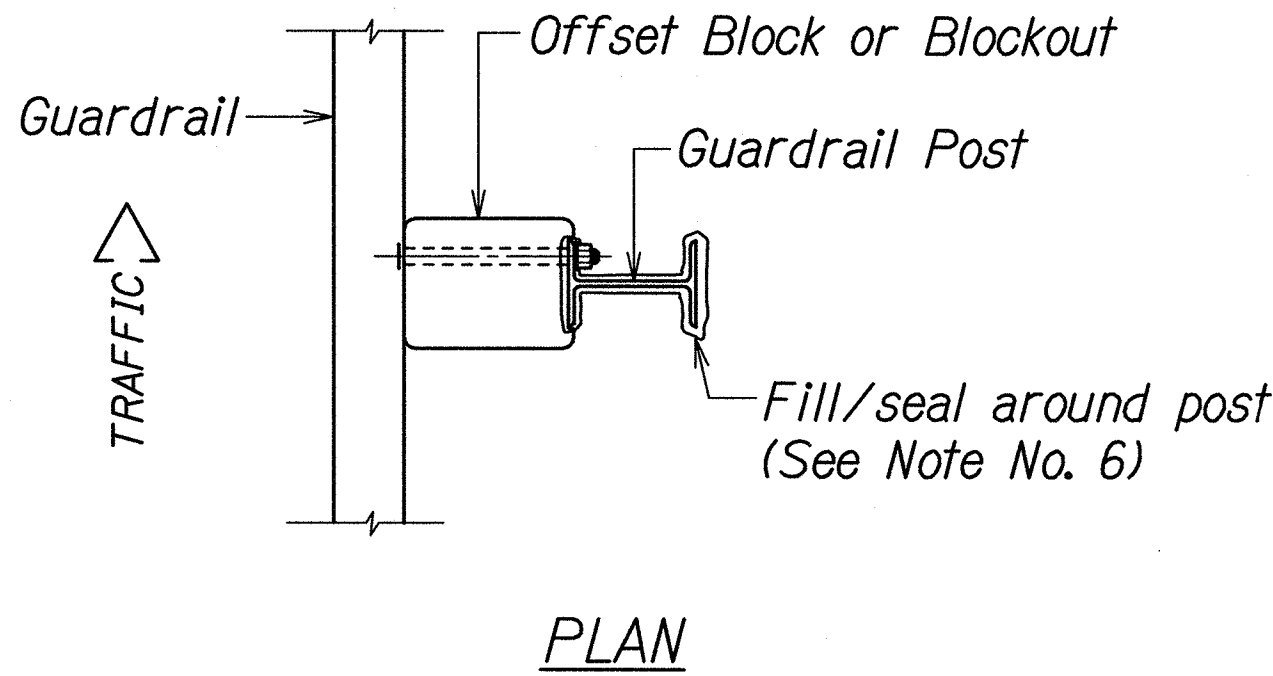
GUARDRAIL DETAILS & NOTES

FARRINGTON HIGHWAY
Drainage Improvements
Vicinity of Leeward Community College
PROJECT NO. 99D-01-17

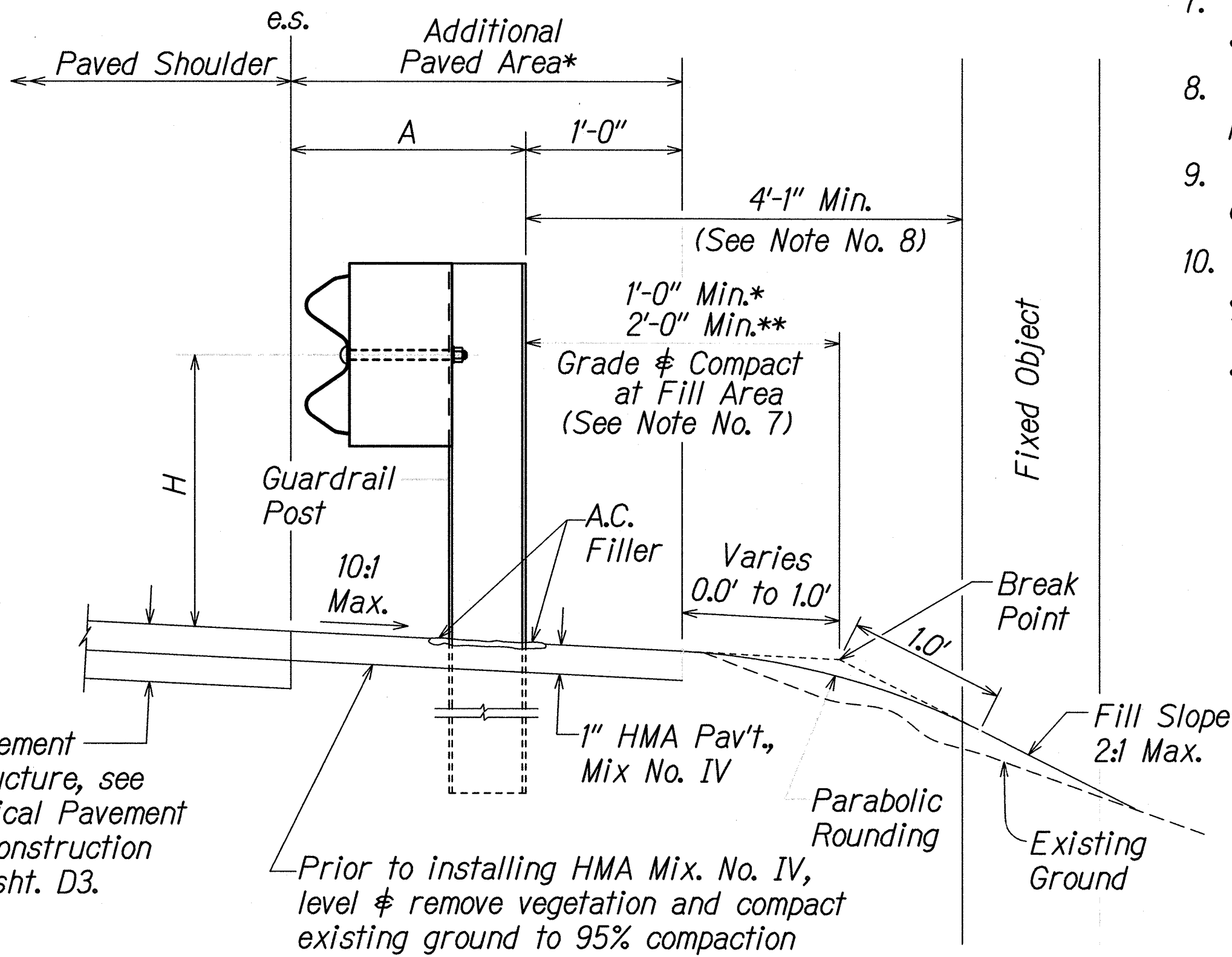
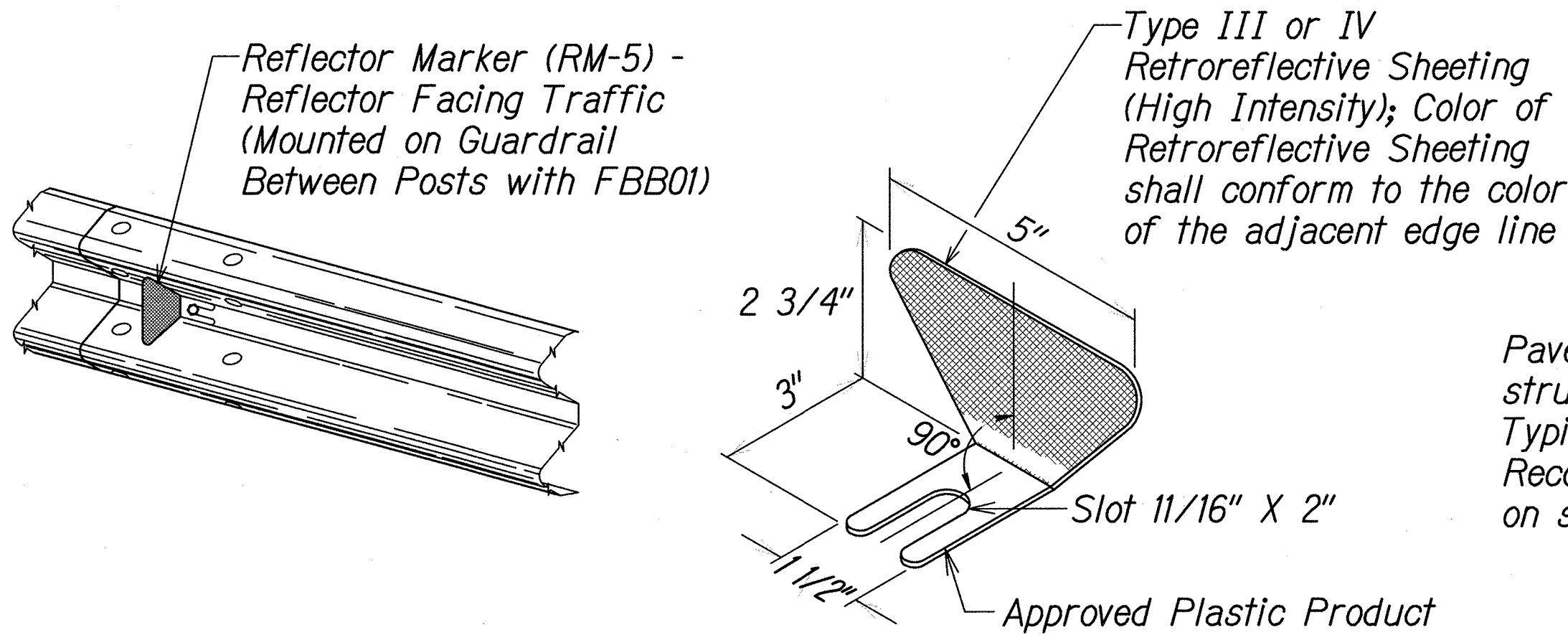
Scale: None Date: June 2021

SHEET No. GR3 OF GR6 SHEETS

GUARDRAIL TYPE	DIMENSION	
	H	A
MGS w/ Standard 8" Offset Block	2'-1"	1'-6"
Strong Post W-Beam	1'-9 5/8"	1'-6"



STEEL POST AND BLOCK DETAIL



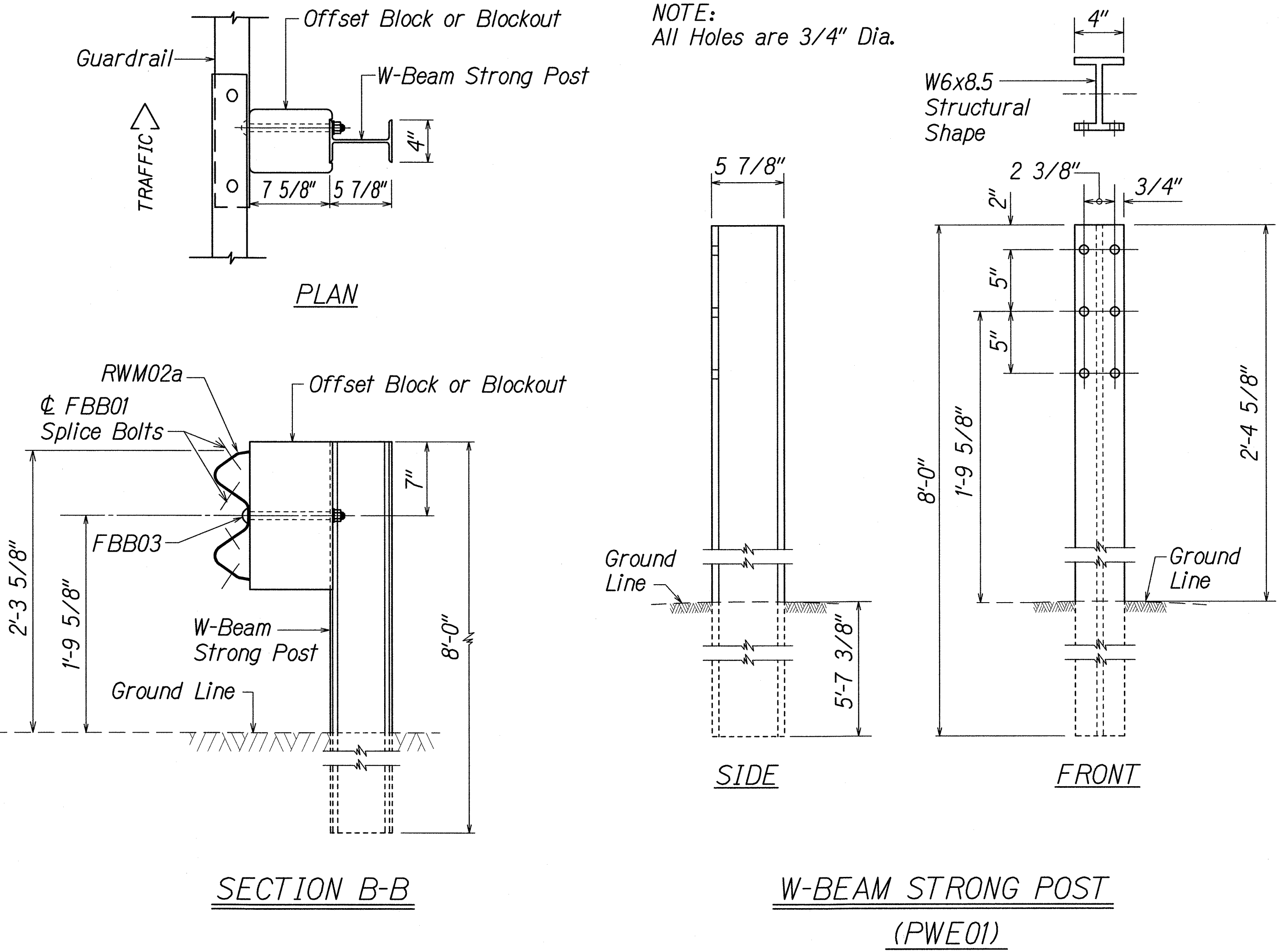
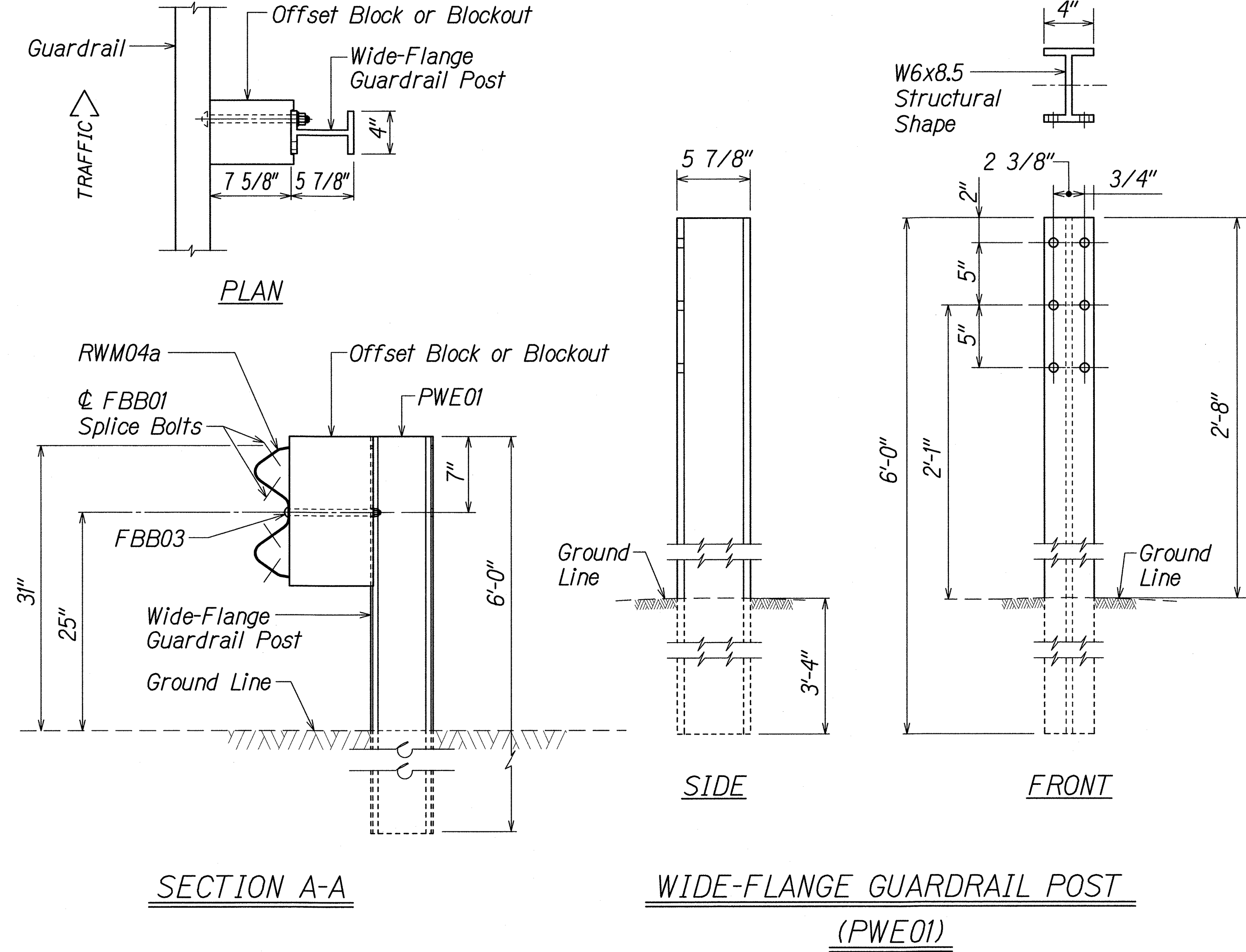
ELEVATION

TYPICAL GUARDRAIL INSTALLATION

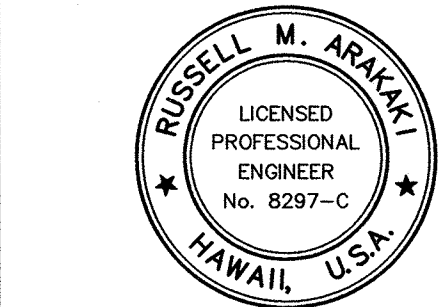
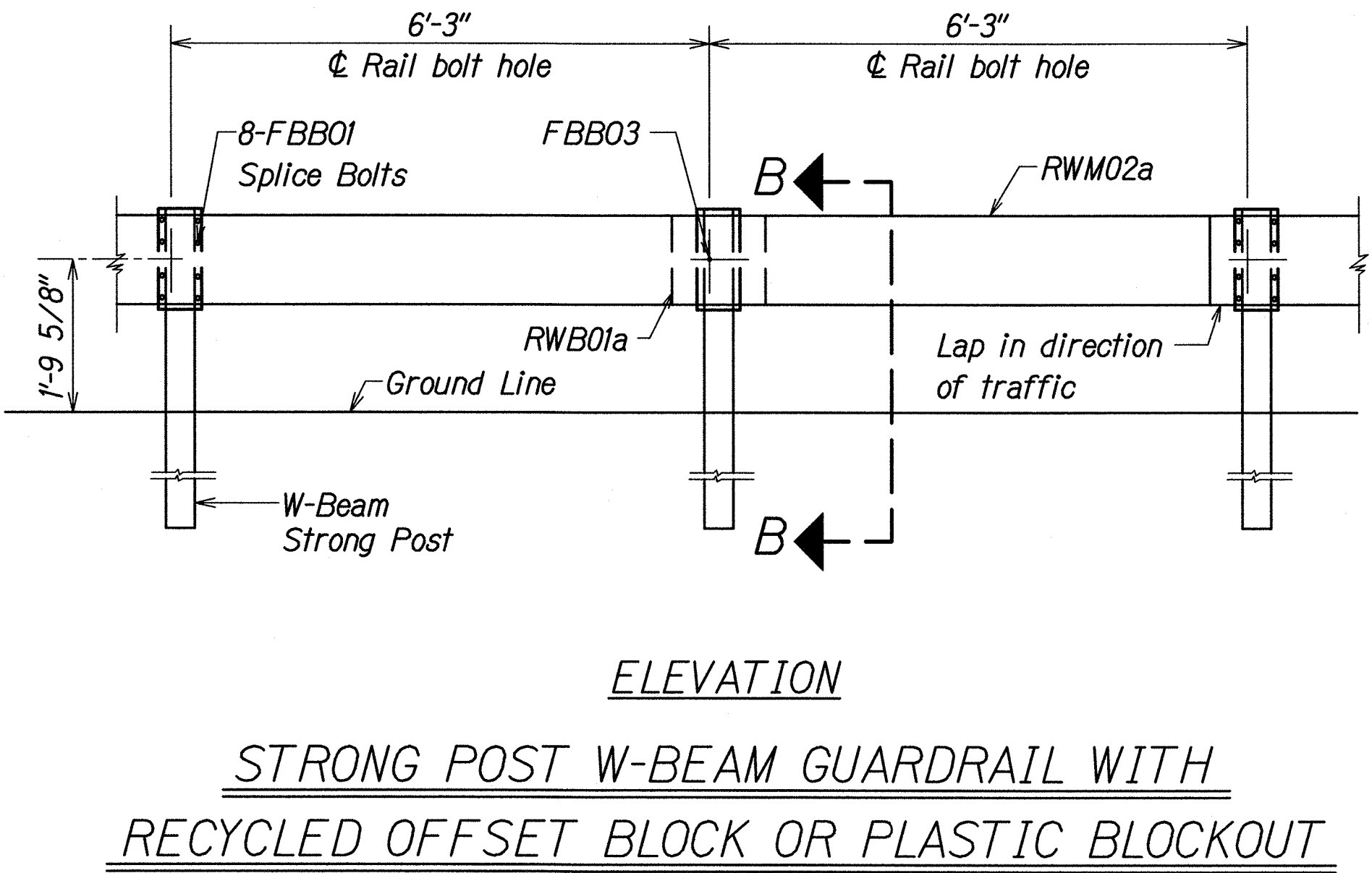
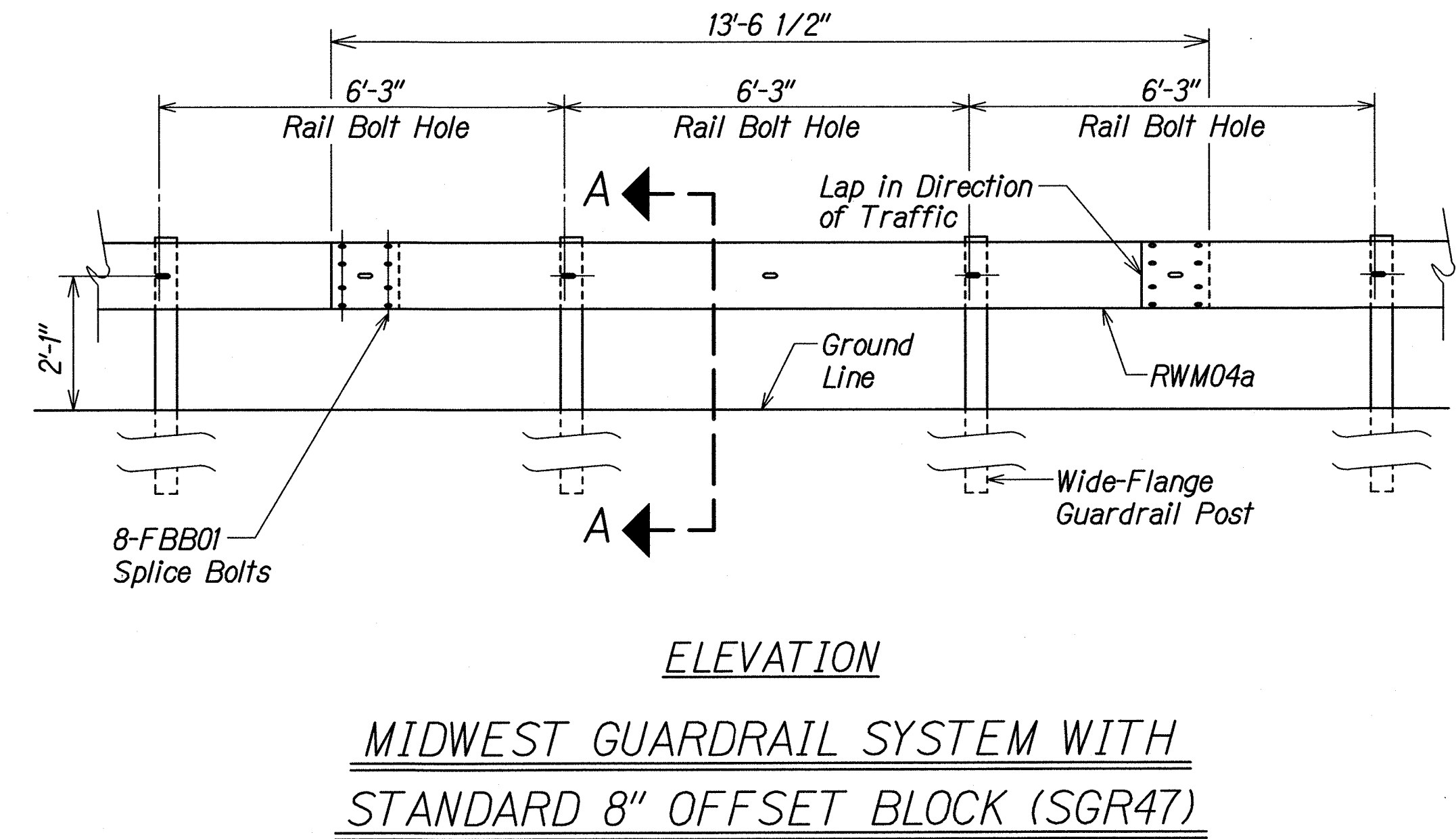
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D-01-17	2022	19	35

NOTE:
All Holes are 3/4" Dia.



NOTE:
All Holes are 3/4" Dia.

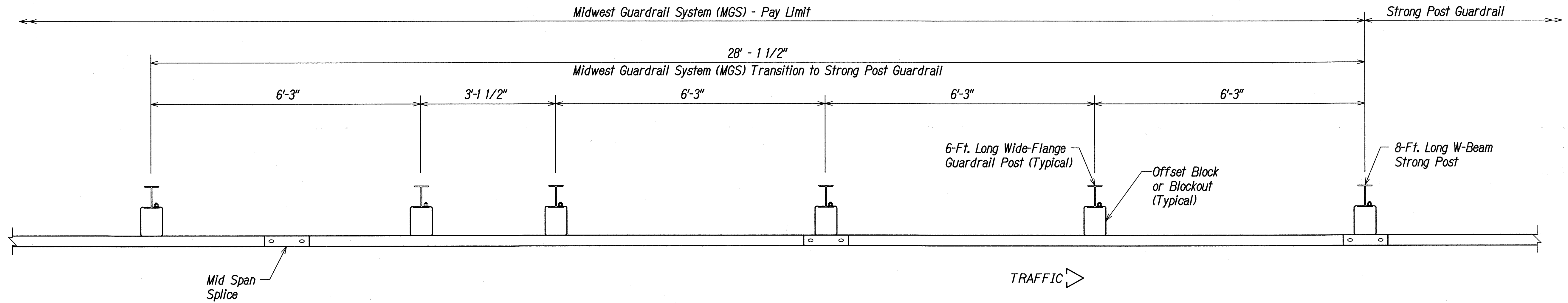


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OR UNDER MY SUPERVISION.
Russell M. Araki
April 30, 2022
LIC. EXP. DATE

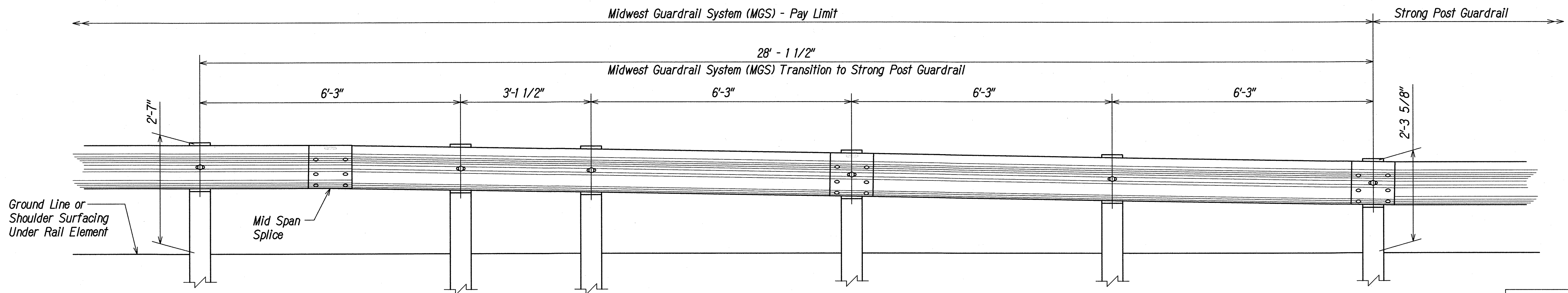
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
GUARDRAIL DETAILS & NOTES
FARRINGTON HIGHWAY
Drainage Improvements
Vicinity of Leeward Community College
PROJECT NO. 99D-01-17
Scale: None Date: June 2021
SHEET No. GR4 OF GR6 SHEETS

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

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D-01-17	2022	21	35



PLAN



ELEVATION

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
NO.	



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

Russell M. Araki
Park, Inc.
dba PARK ENGINEERING
APRIL 30, 2022
LIC. EXP. DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

GUARDRAIL DETAILS & NOTES

FARRINGTON HIGHWAY
Drainage Improvements
Vicinity of Leeward Community College
PROJECT NO. 99D-01-17

Scale: None Date: June 2021

SHEET No. GR6 OF GR6 SHEETS