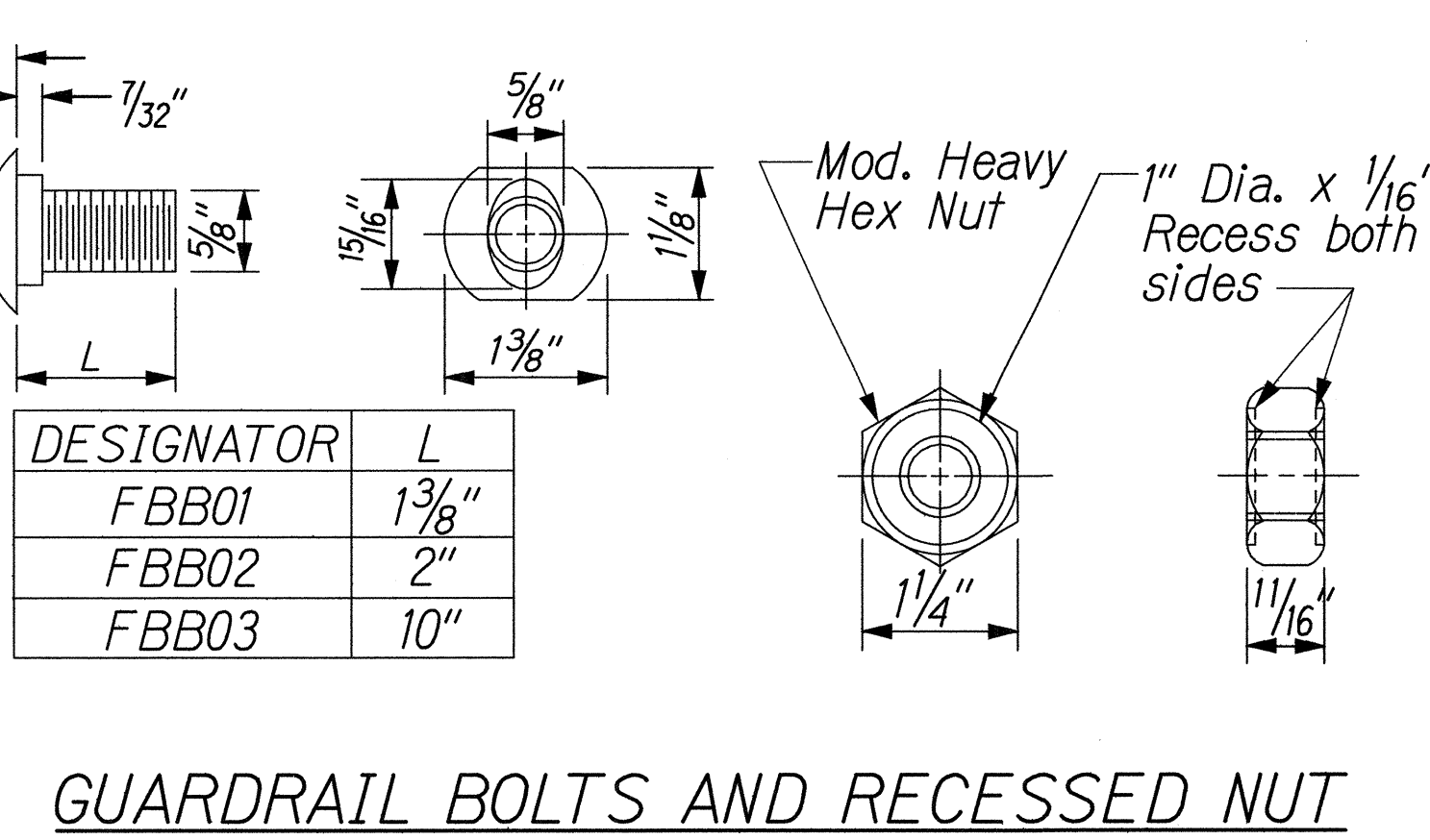
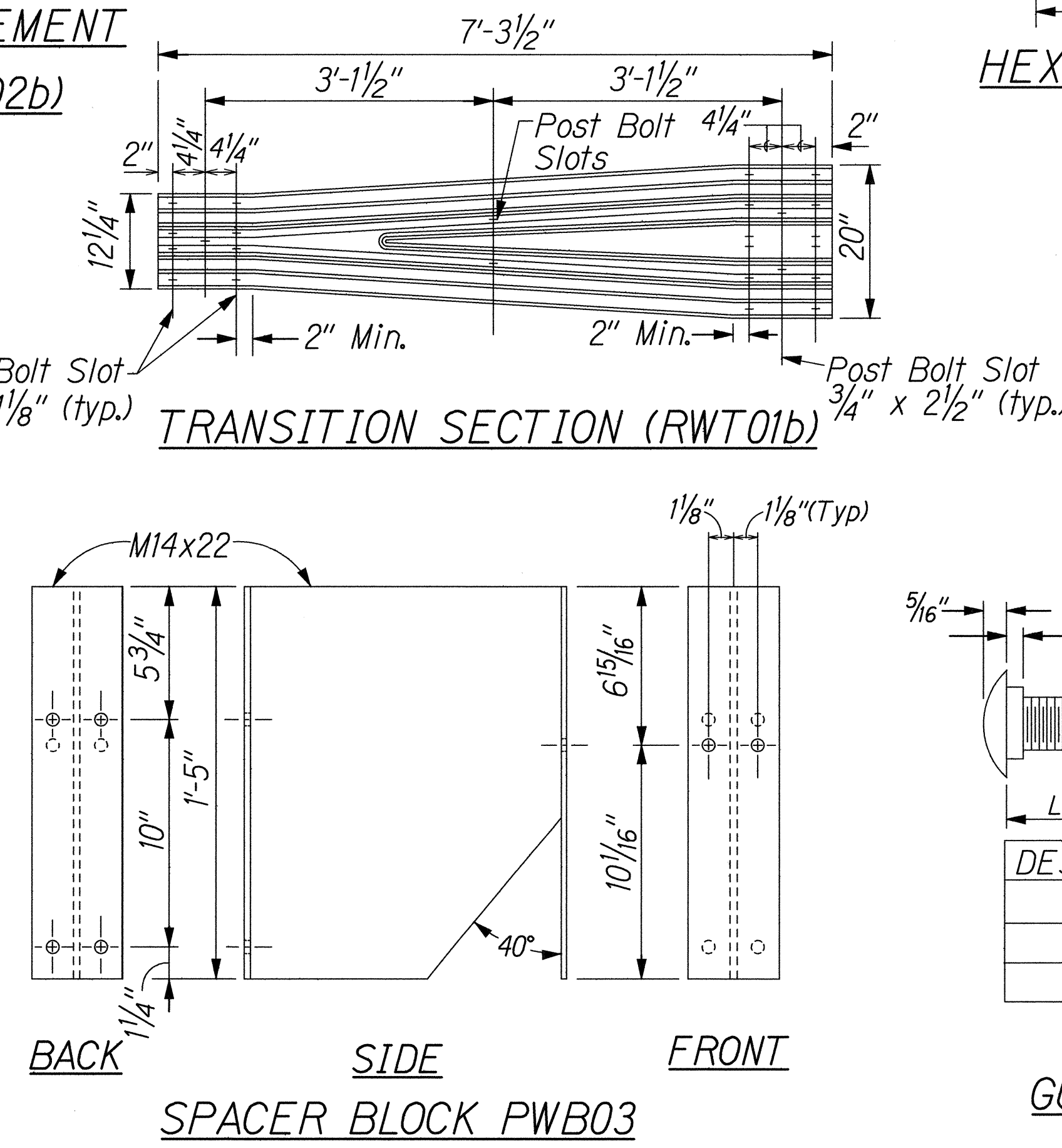
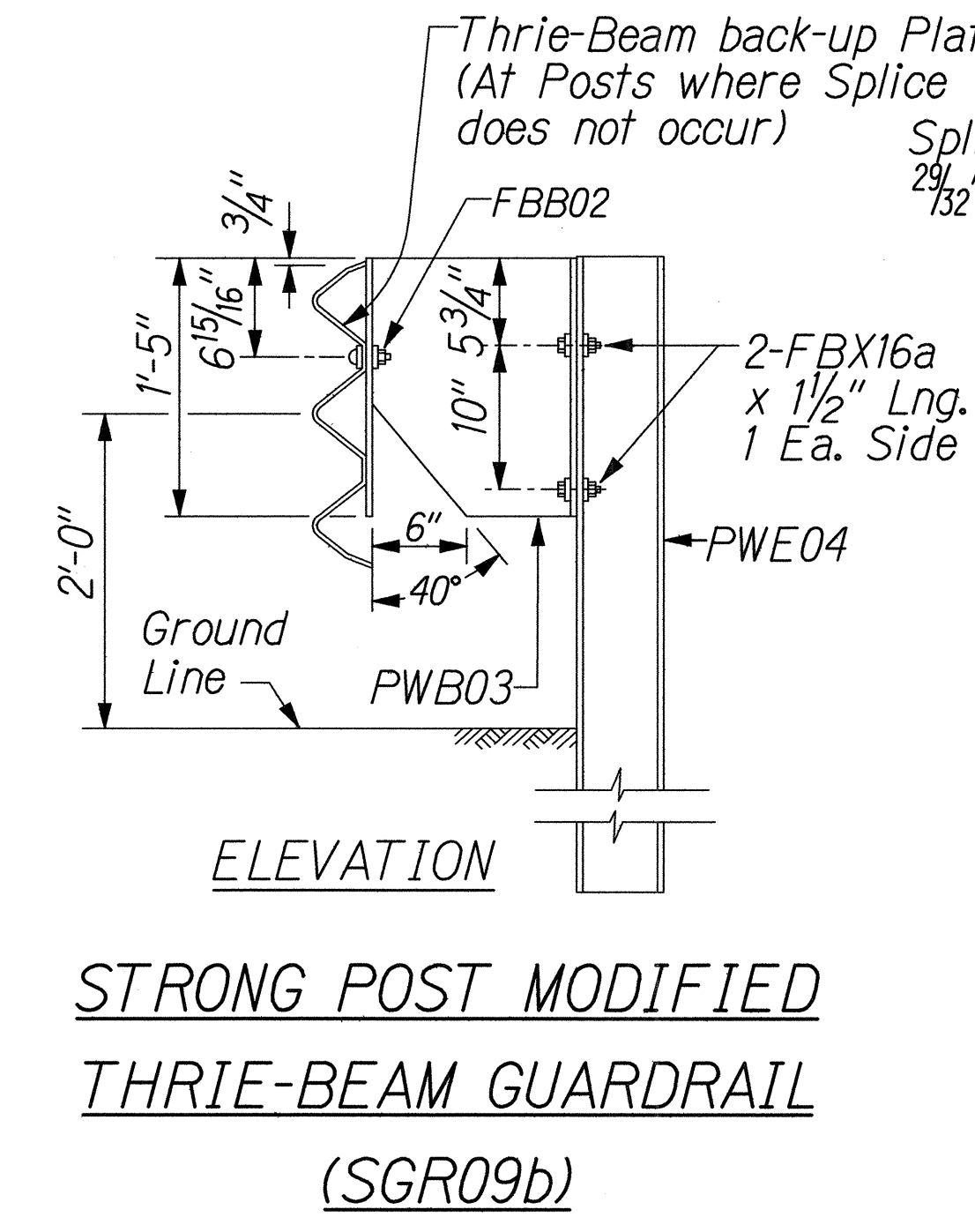
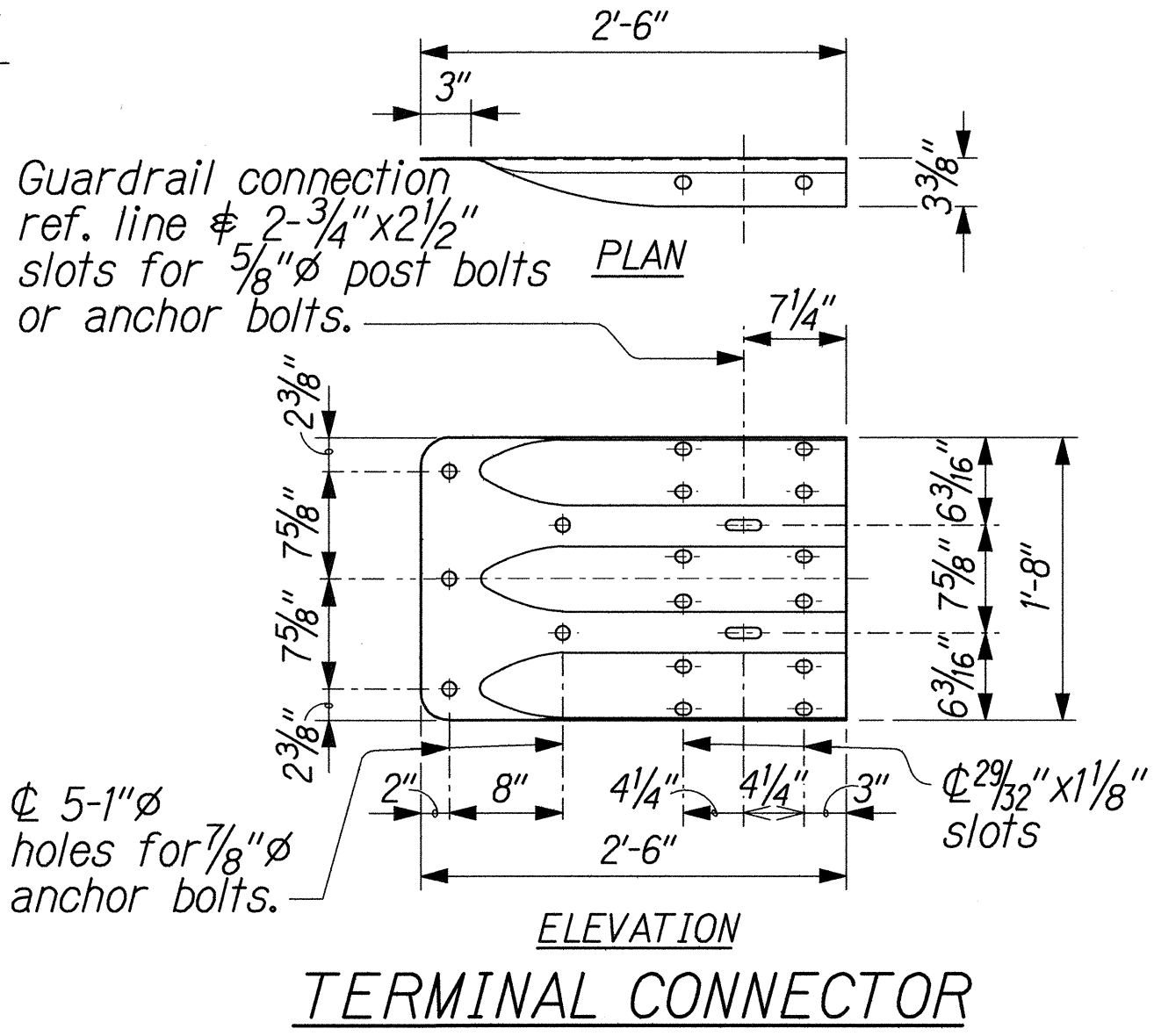
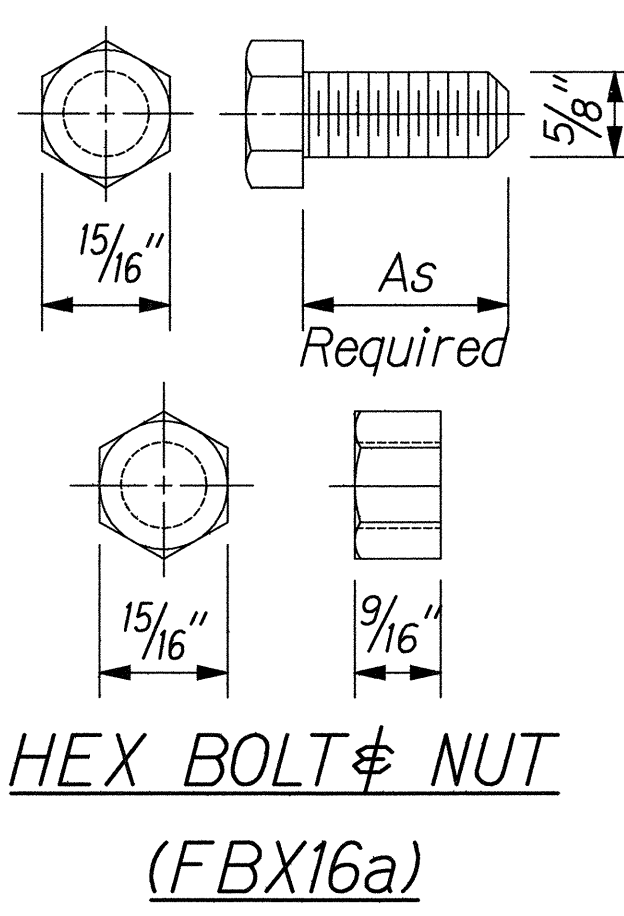
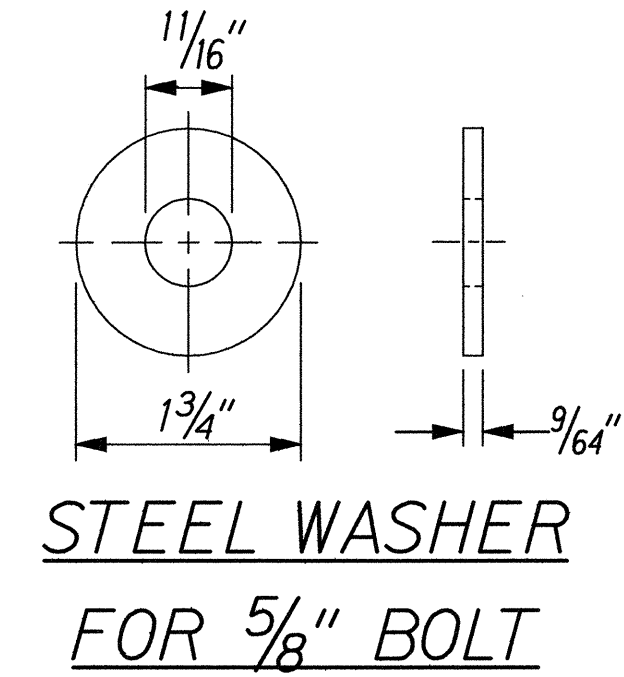
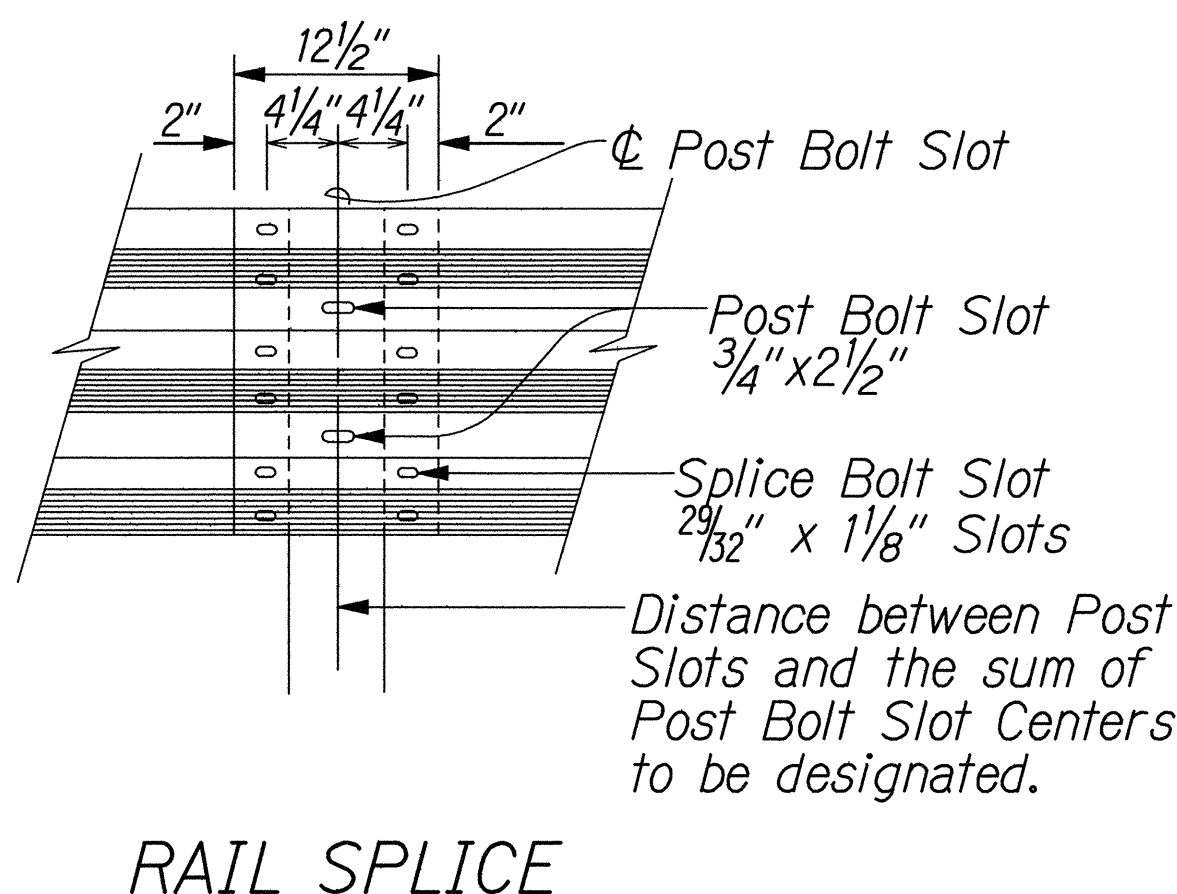
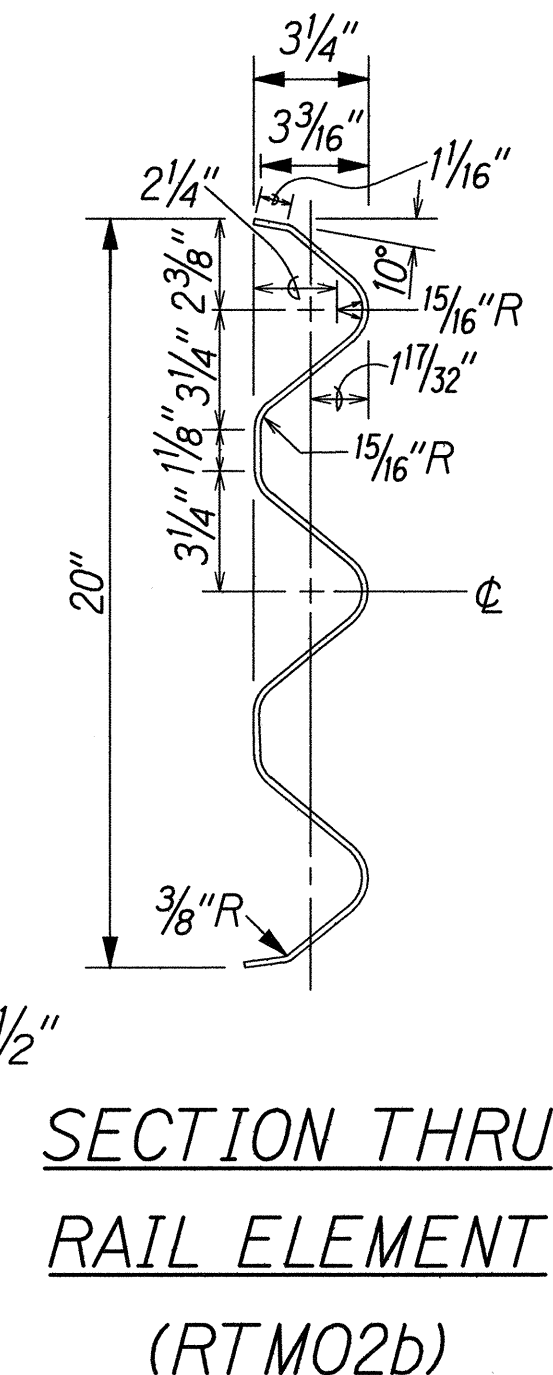
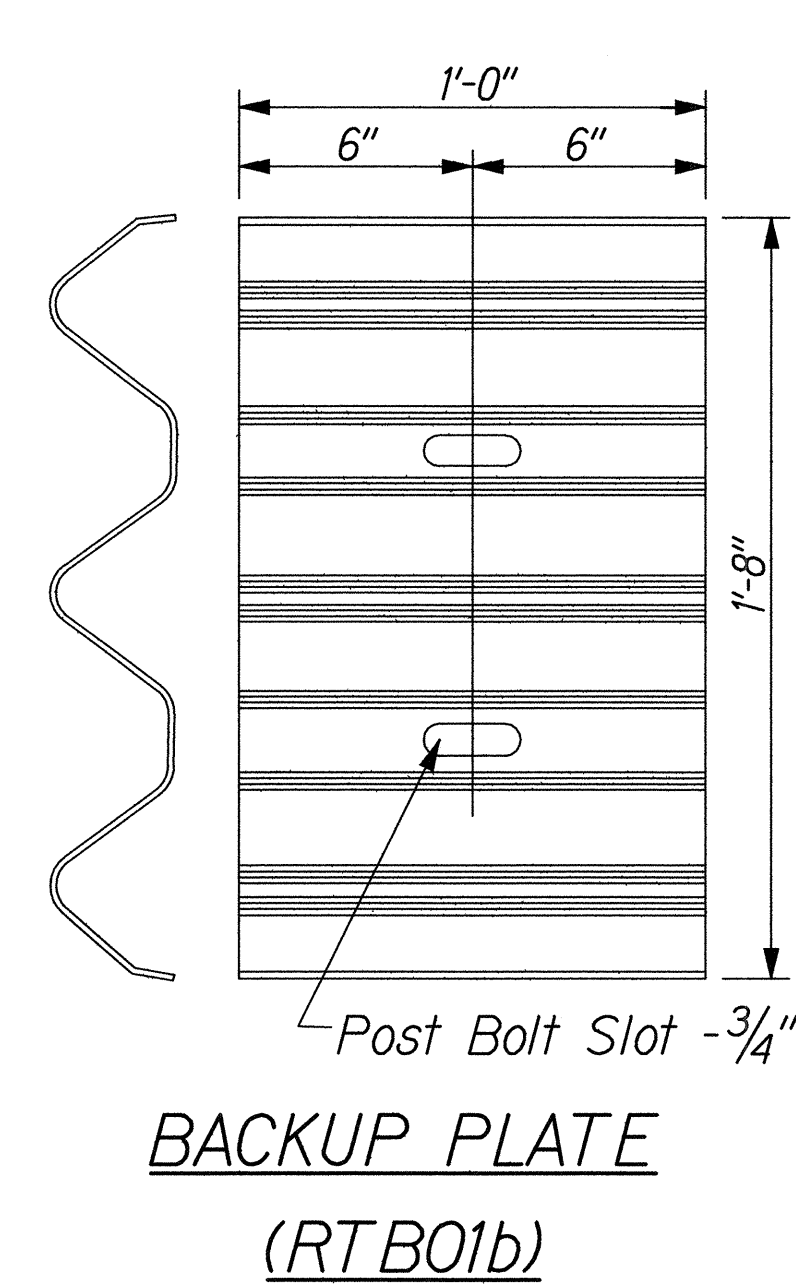
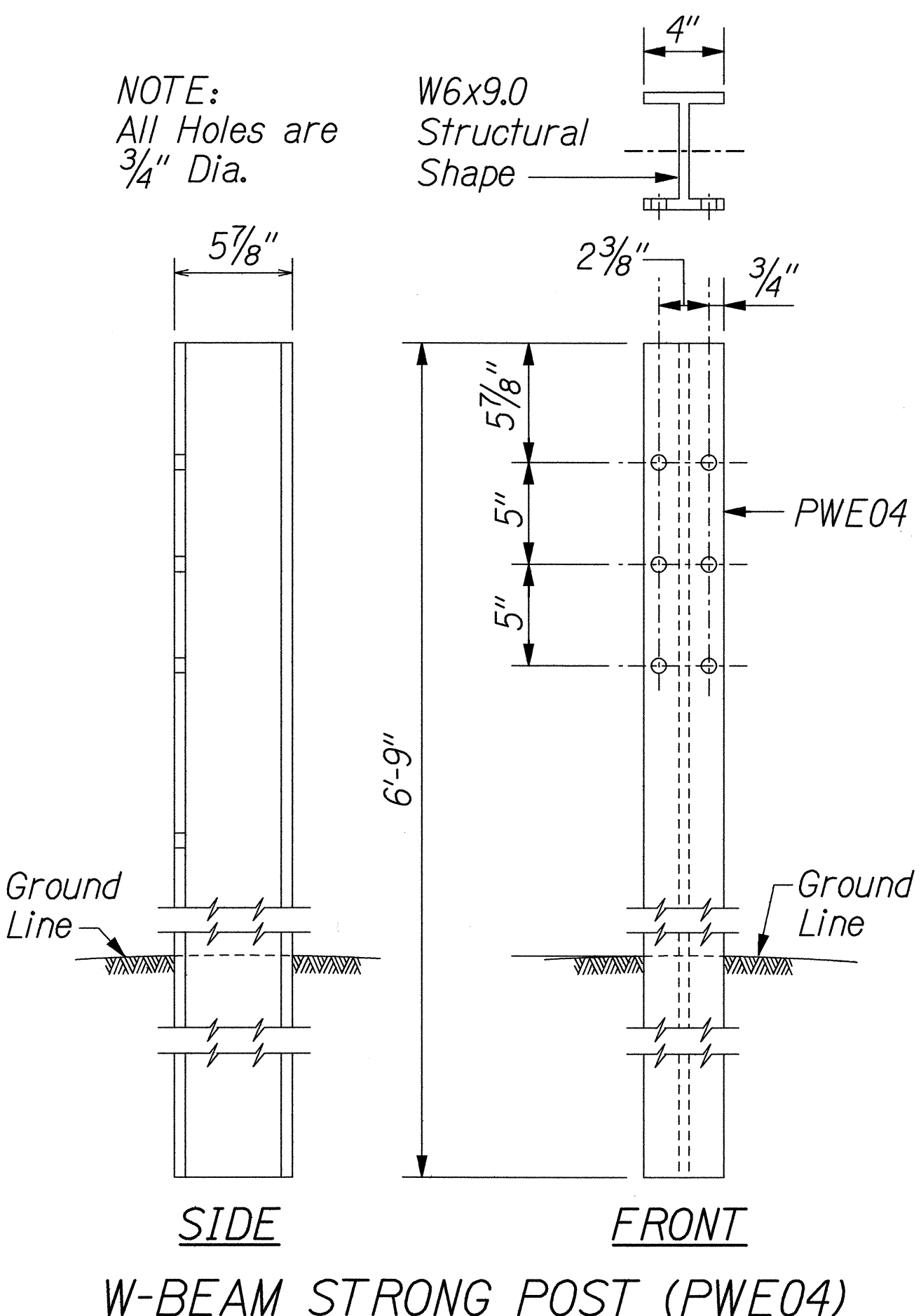
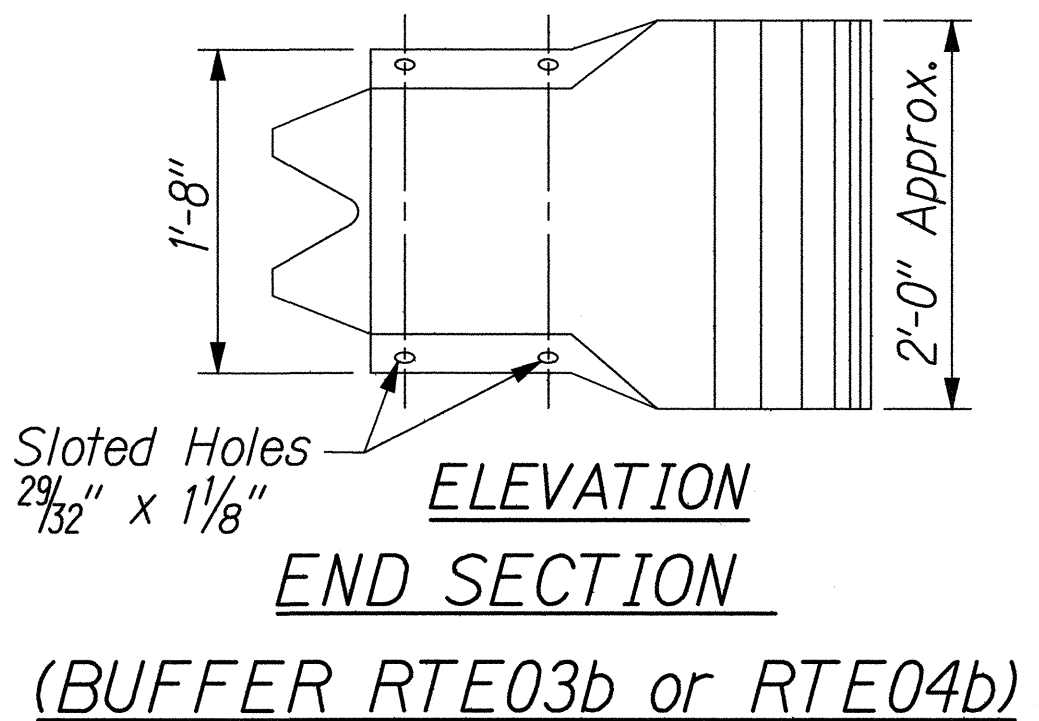
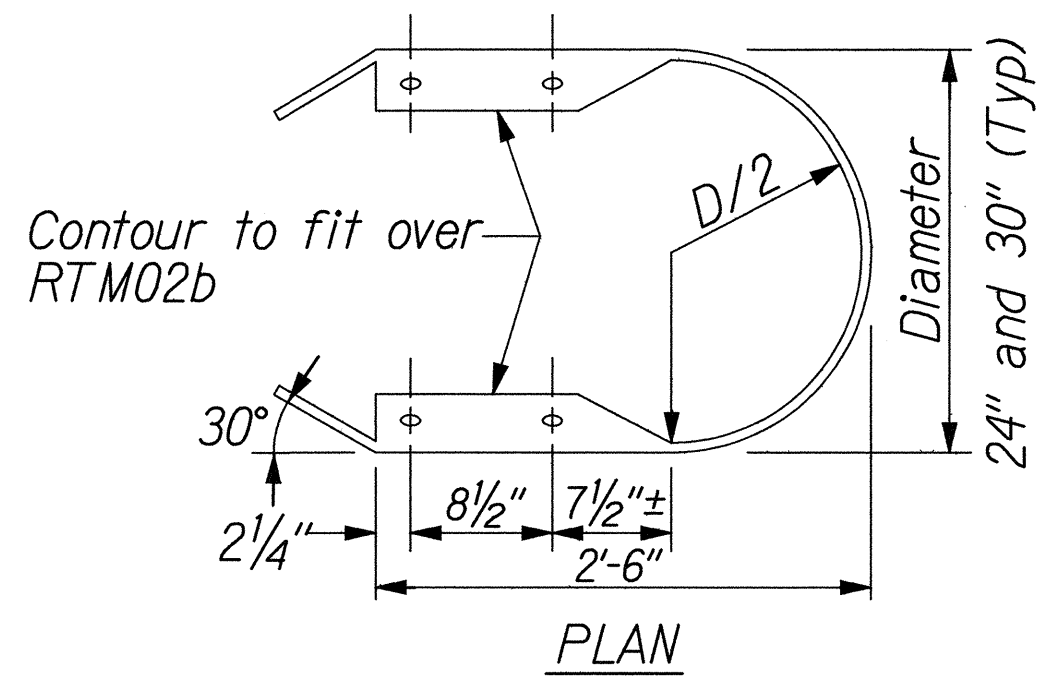
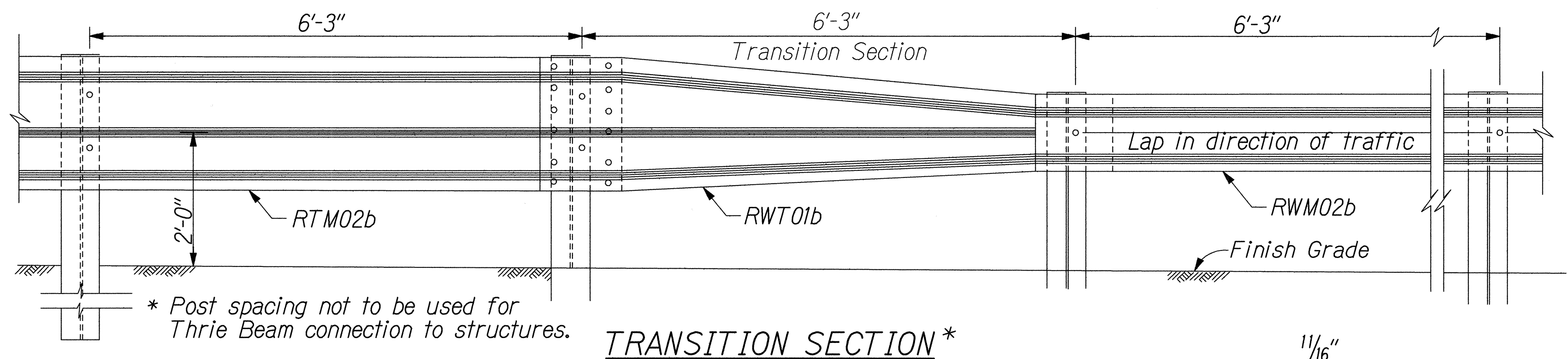


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(2)	2001	114	145



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Perry M. Small
LICENSED PROFESSIONAL ENGINEER
No. 8627-C
HAWAII, U.S.A.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

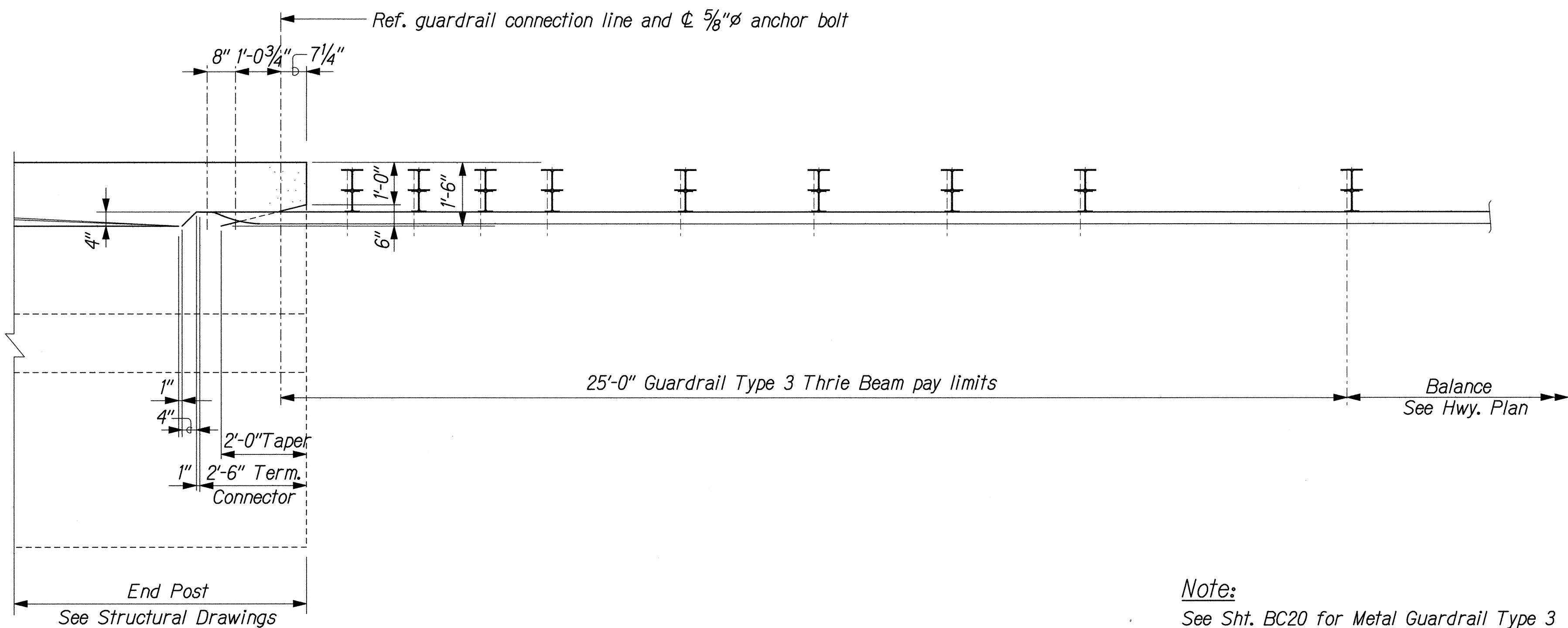
THRIE BEAM AND APPURTENANCE DETAILS
MAMALAHOA HIGHWAY, EMERGENCY
REPLACEMENT OF KAALAALA STREAM BRIDGE
FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII
Scale: None Date: FEBRUARY 20, 2001

SHEET No. BC20 OF 28 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	DESIGNED BY
NOTED BY	NOTED BY
CHECKED BY	CHECKED BY
DATE	DATE

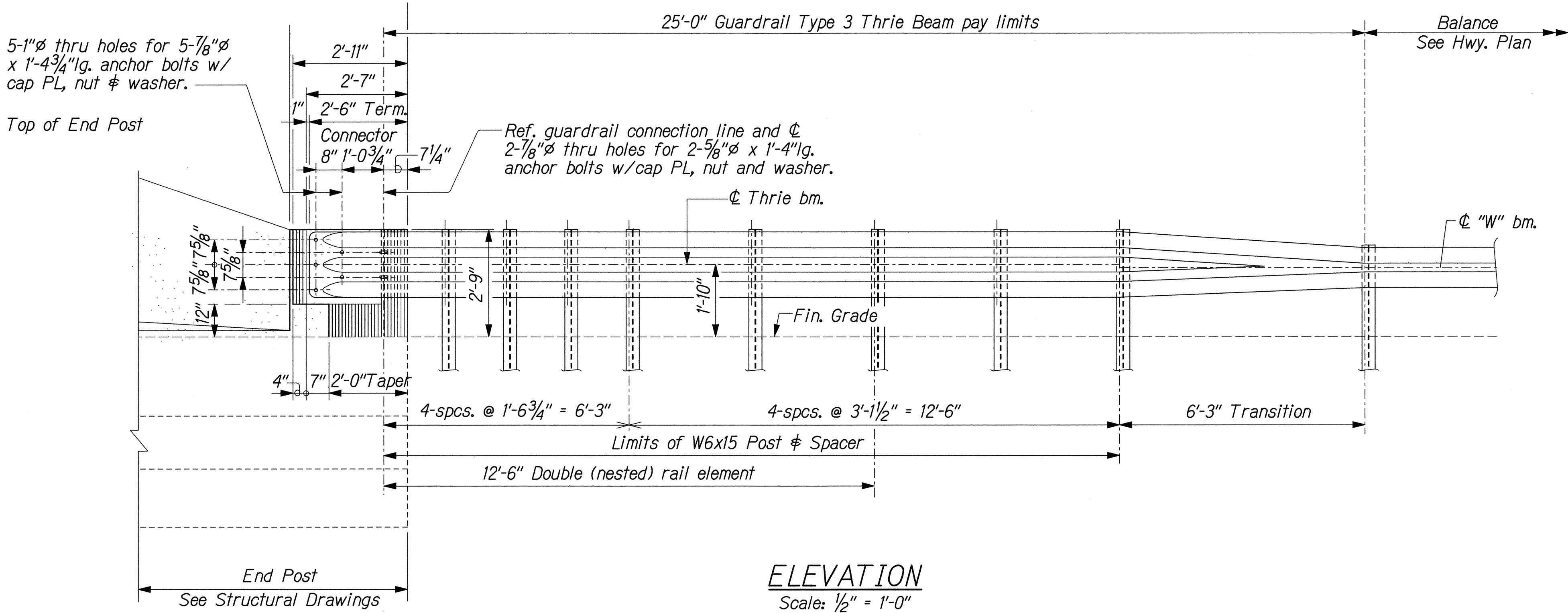
3/2/KAALAALA/MISC/WMODTHRIE.dgn May 2001

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	ER-12(2)	2001	115	145



PLAN
Scale: 1/2" = 1'-0"

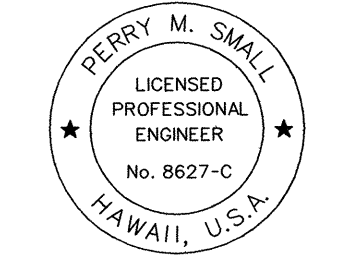
Note:
See Sht. BC20 for Metal Guardrail Type 3 Thrie Beam and Appurtenances details.



ELEVATION
Scale: 1/2" = 1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
IN CHARGE	

KAALAALA MISC THRIE BEAM May 2001



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
THRIE BEAM AND APPURTENANCE DETAILS
MAMALAHQA HIGHWAY, EMERGENCY
REPLACEMENT OF KAALAALA STREAM BRIDGE
FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII
Scale: As Shown Date: FEBRUARY 20, 2001

SHEET No. BC21 OF 28 SHEETS