

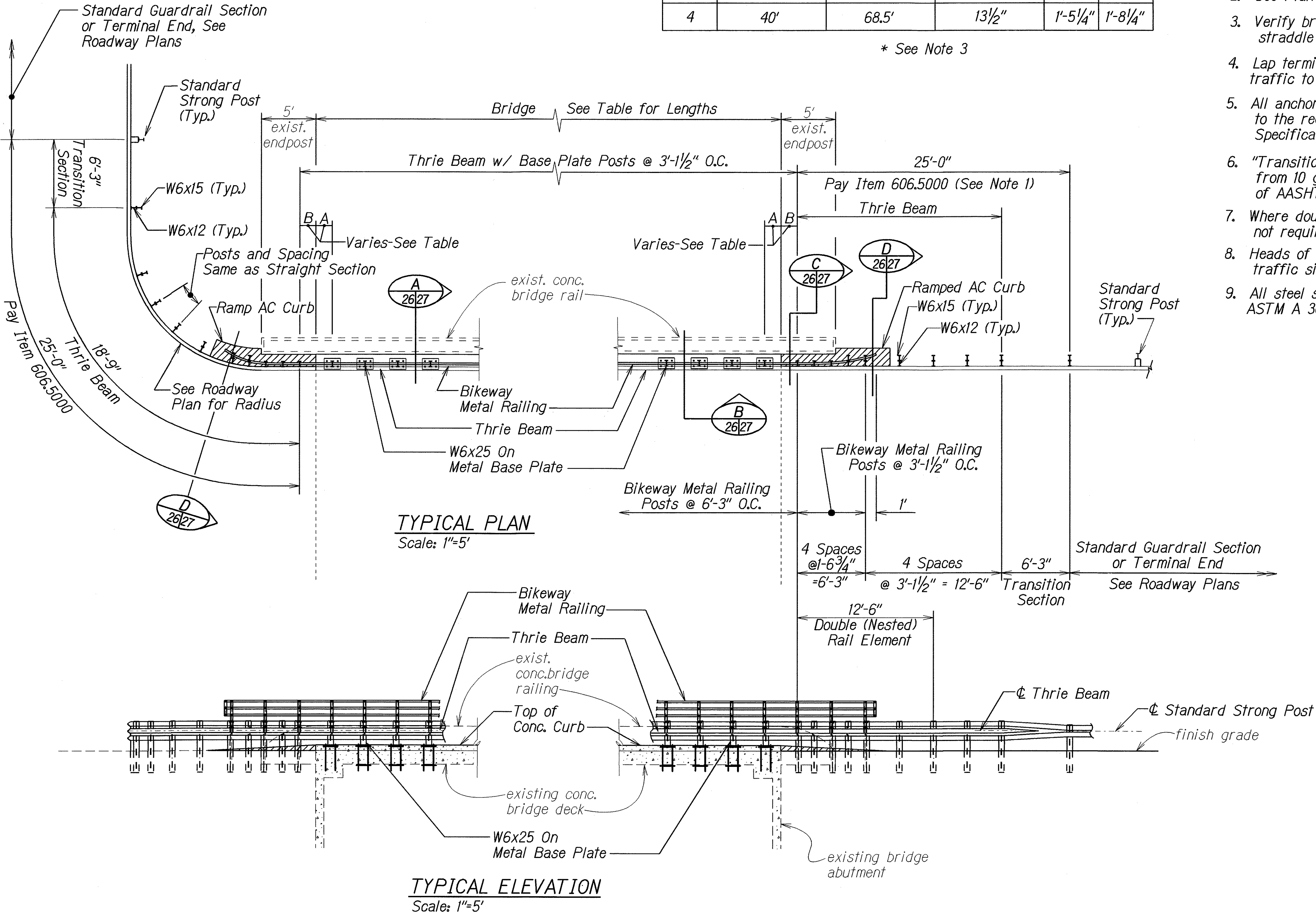
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-050-1(25)	2003	26	30

MANA BRIDGES					
No.	Deck Width	Deck* Length	Deck Thickness (at Shoulder)	A*	B*
1	42'	41.5'	13½"	2'-0"	1'-1½"
2	42'	41.5'	13½"	2'-0"	1'-1½"
3	42'	32.5'	20½"	2'-2¼"	1¼"
4	40'	68.5'	13½"	1'-5¼"	1'-8¼"

* See Note 3

NOTES

1. All work from guardrail connection reference line to standard guardrail, including transition section, extra rail length for double nesting, and connection to standard guardrail shall be paid under Item No. 606.5000 - GUARDRAIL, THRIE-BEAM
2. See Plan Sheet No. 23 for thrie beam details.
3. Verify bridge lengths and layout posts to straddle abutment.
4. Lap terminal connector and rail element in direction of traffic to prevent snagging.
5. All anchor bolts shall be high strength bolts conforming to the requirements of ASTM 325 and Standard Specification, Section 713.04.
6. "Transition Section" and thrie beam shall be fabricated from 10 gauge steel conforming to the requirements of AASHTO M 180, Type II, Class B.
7. Where double (nested) beam occur, 12" "Back-up Plate" not required.
8. Heads of through anchor bolts shall be placed on the traffic side of the rail.
9. All steel shapes, rails and plates shall conform to ASTM A 36 specifications.



DATE	JUL 2002
SURVEY PLOTTED BY	...
DRAWN BY	...
DESIGNED BY	...
CHECKED BY	...
ORIGINAL PLAN	...
NOTE BOOK	...
FILE	...
CHECKED BY	...

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

MANA BRIDGES 1 THROUGH 4
TYPICAL RAIL LAYOUT PLAN & ELEVATION
KAUMUALII HIGHWAY
Guardrail and Shoulder Improvements
Hanalei to Mana
Fed. Aid Project No. STP-050-1(25)
Scale: 1" = 5'

Date: July 2002
SHEET No. 1 OF 1 SHEETS