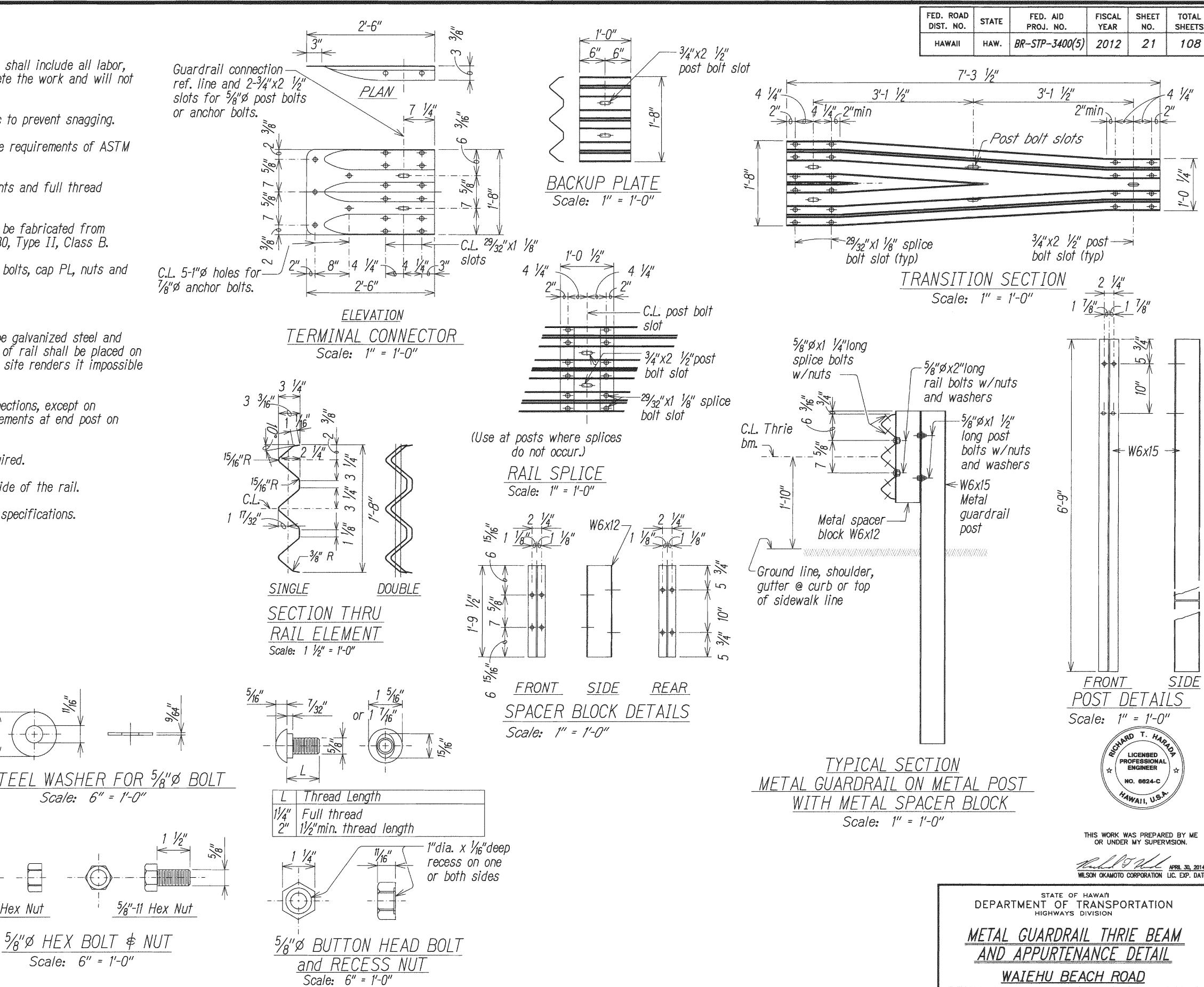
## NOTES: The work necessary to connect guardrail to concrete end post shall include all labor, materials, tools, equipment and incidentals necessary to complete the work and will not Guardrail connection ref. line and 2-3/4"x2 1/2" slots for 5/8"ø post bolts PLAN be paid for separately. 7 1/4" or anchor bolts. Lap terminal connector and rail element in direction of traffic to prevent snagging. 3. All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A 449 and Standard Specification, Section 710.08. **←** → Anchor bolt length shall be such that a snug fit of the elements and full thread engagement plus 1/4" (max) is attained. **← →** · 5. "Terminal Connector", "Transition Section" and thrie beam shall be fabricated from 10gauge steel conforming to the requirements of AASHTO M 180, Type II, Class B. 6. "Terminal Connector" and standard spacer, including all anchor bolts, cap PL, nuts and washers, shall be hot-dip galvanized after fabrication. C.L. 5-1"ø holes for— 7/x"ø anchor bolts. 7. Cap PL shall be fabricated from ASTM A 36. ELEVATION TERMINAL CONNECTOR 8. First 25'-0" of guardrail adjoining "Terminal Connector" shall be galvanized steel and supports spaced as shown on the detail drawings. This section of rail shall be placed on Scale: 1" = 1'-0" tangent to end post or parallel to roadway, unless conditions at site renders it impossible to do so. Flare point to be determined in field. 9. Double (nest 1st panel) thrie beam elements at all end post connections, except on highways with one-way traffic pattern, use single thrie beam elements at end post on trailing end only. 15/16"R-10. Where double (nested) beam occur, 12" "Back-up Plate" not required. 11. Heads of through anchor bolts shall be placed on the traffic side of the rail. 12. All steel shapes, rails and plates shall conform to ASTM A 36 specifications. 1 17/32" **DOUBLE** SINGLE SECTION THRU RAIL ELEMENT Scale: 1 1/2" = 1'-0" C.L. Cap ¢ hole. "D" = Bolt dia. 1⁄8" —

Scale: 6" = 1'-0"

Scale: 6" = 1'-0"

METAL GUARDRAIL TYPE 3 THRIE BEAM AND APPURTENANCES DETAILS



 $2\frac{1}{2}$ "x2 $\frac{1}{2}$ " PL galv. after fabrication.

One (1) @ ea. A.B.

beveled cap PL

Outline of

FRONT VIEW

2 1/2"typ.

CAP (BEARING) PLATE DETAIL

Scale: 6" = 1'-0"

⊕ C.L. Cap PL and hole

1/2"mir (typ.)

5/8"-11 Hex Nut

SHEET No. GR3 OF 10 SHEETS

Date: October 2012

REHABILITATION OF IAO STREAM BRIDGE

Federal Aid Project No. BR-STP-3400(5)