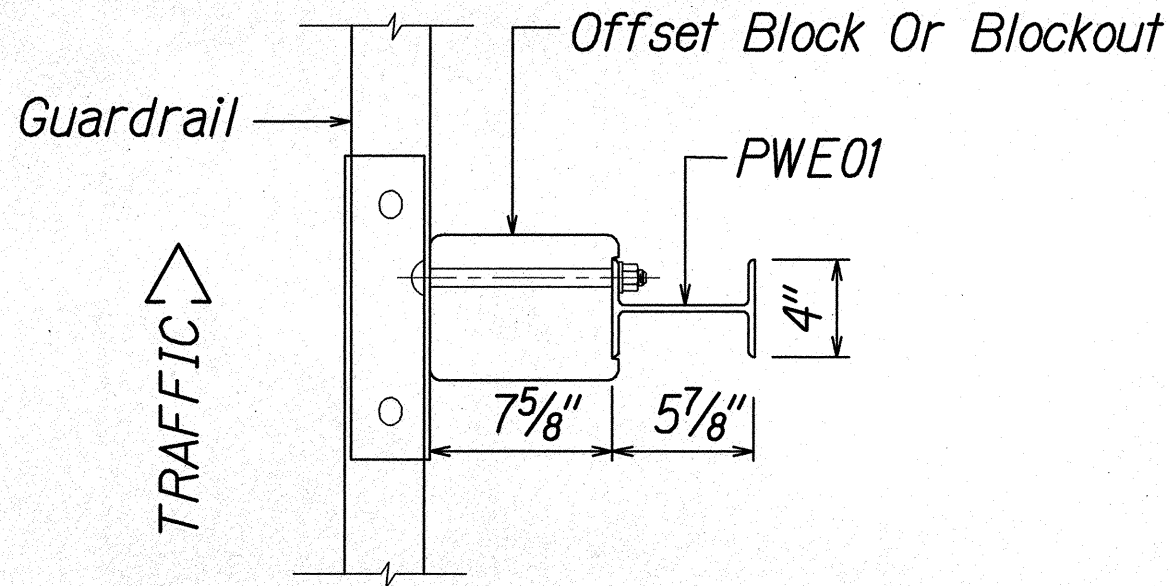
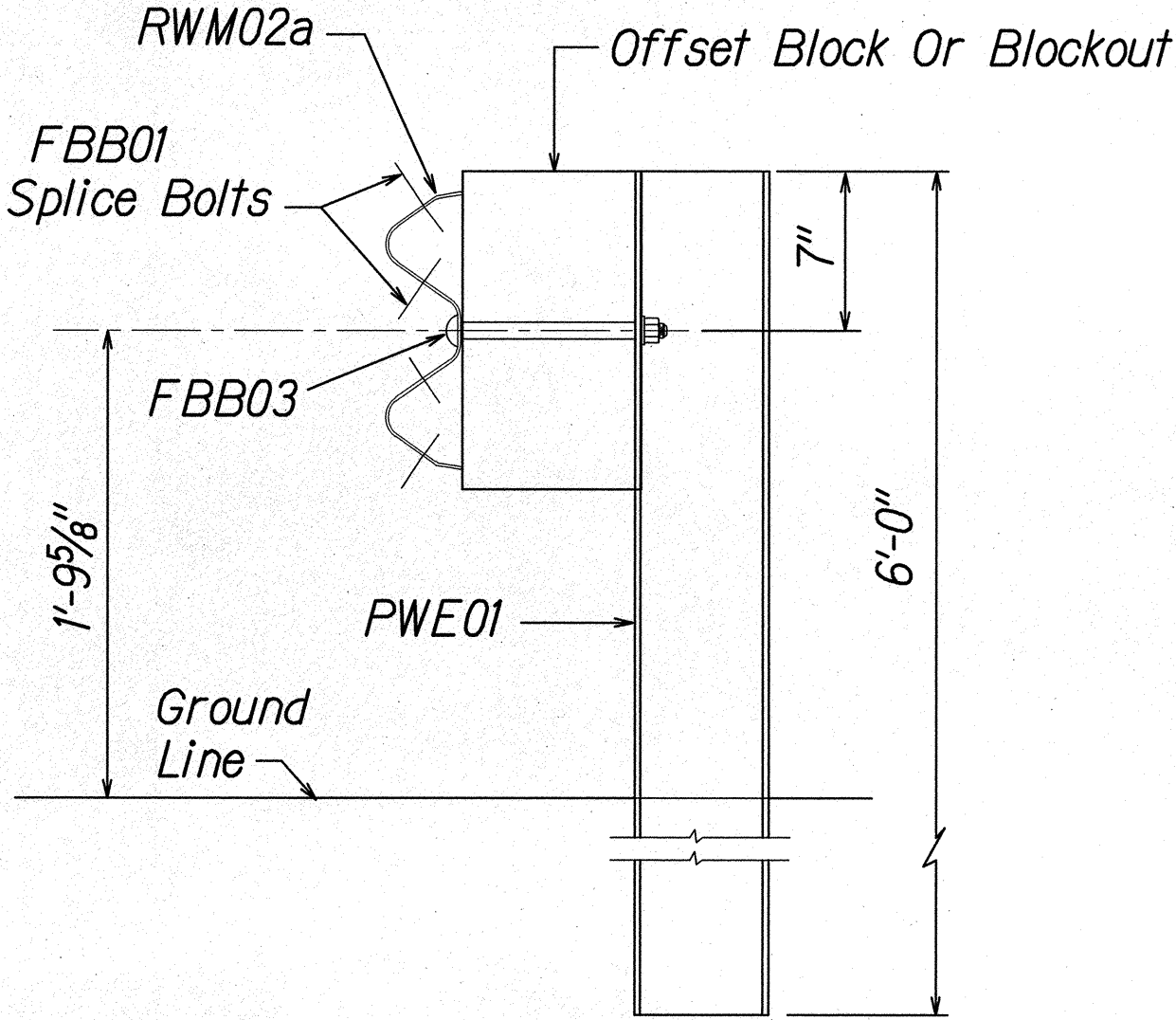


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | NH-072-1(53)       | 2015        | 19        | 117          |

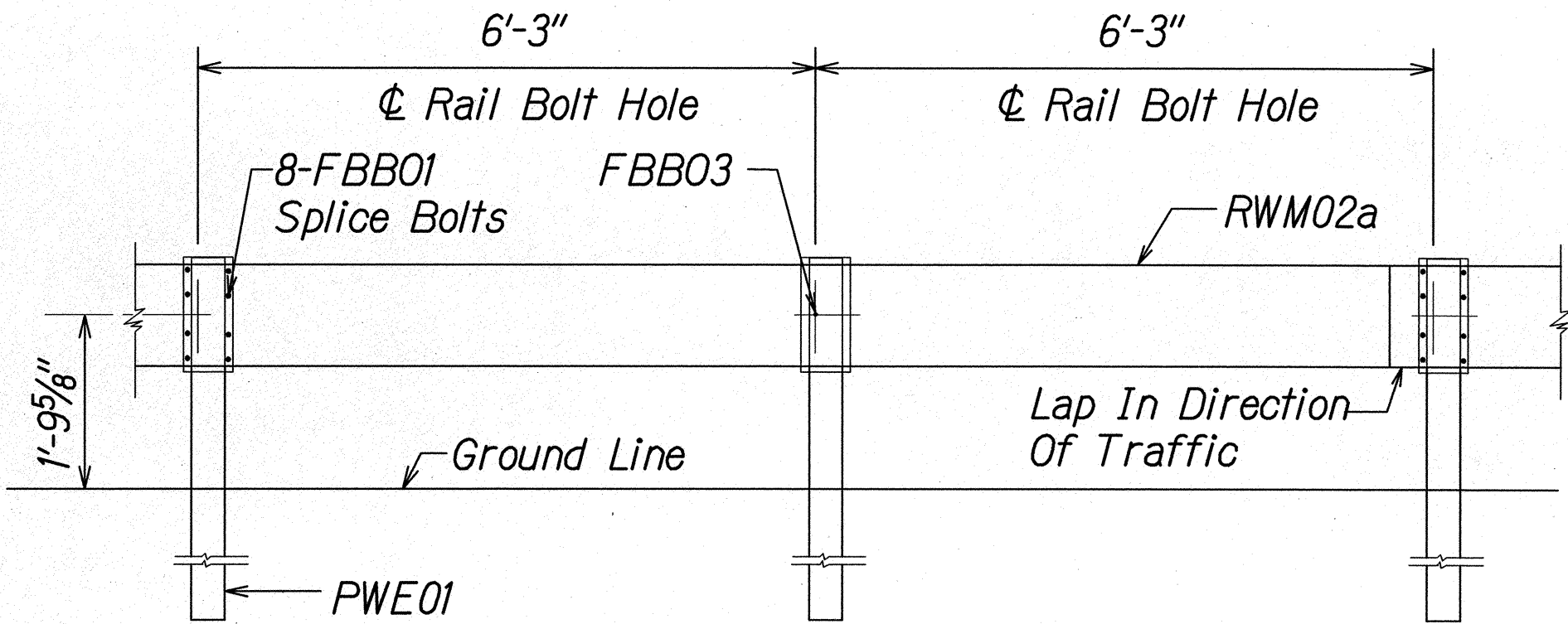


PLAN



ELEVATION

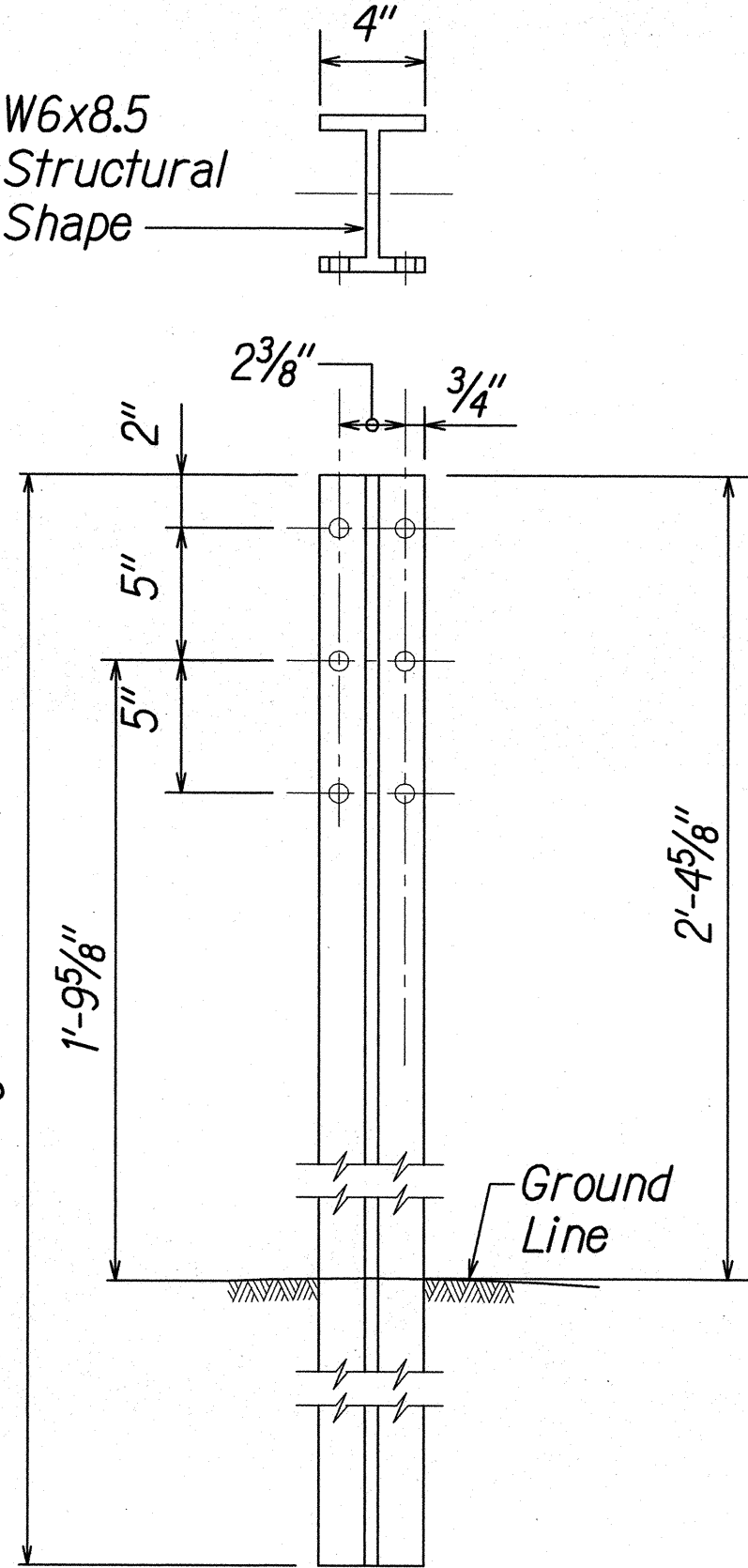
**STRONG POST W-BEAM GUARDRAIL (SGR04a)**  
Scale: N.T.S.



ELEVATION

**STRONG POST W-BEAM GUARDRAIL WITH RECYCLED OFFSET BLOCK OR PLASTIC BLOCKOUT**  
Scale: N.T.S.

NOTE:  
All Holes Are  
3/4" Dia.

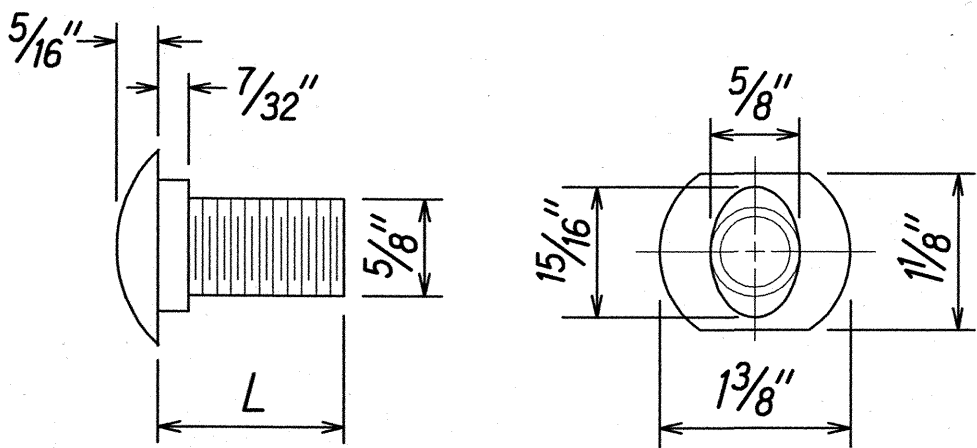


SIDE

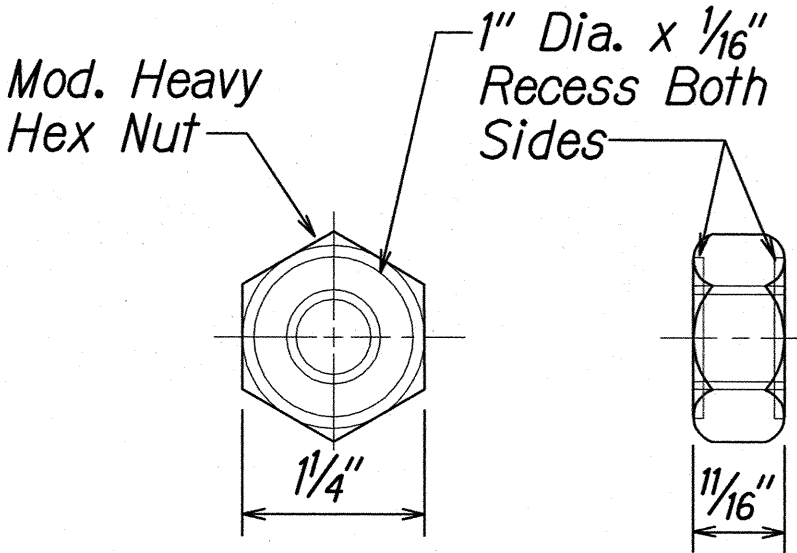
FRONT

**W-BEAM STRONG POST (PWE01)**  
Scale: N.T.S.

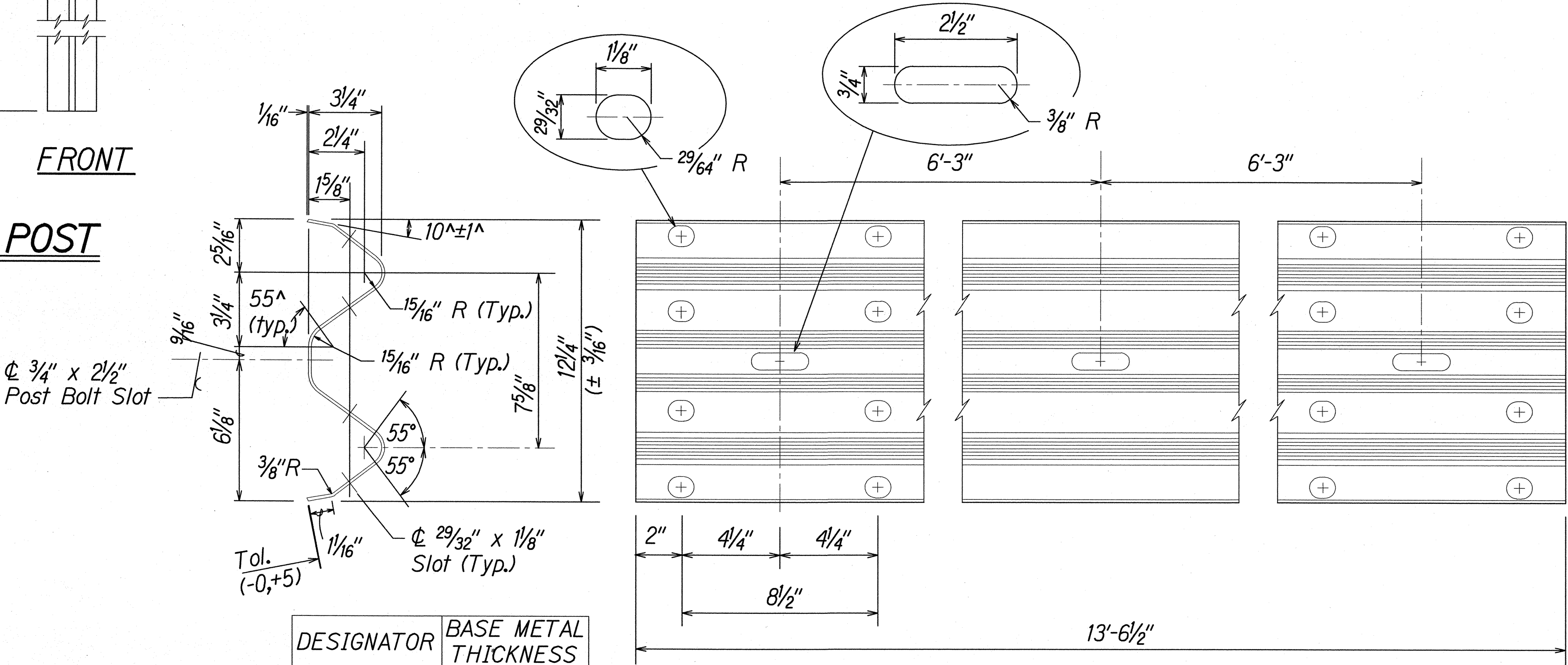
W6x8.5  
Structural  
Shape



| DESIGNATOR | L      |
|------------|--------|
| FBB01      | 1 3/8" |
| FBB02      | 2"     |
| FBB03      | 10"    |

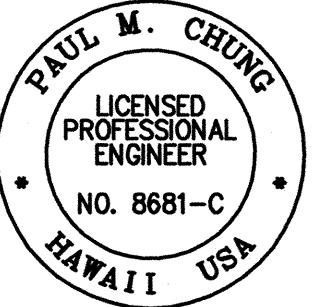


**GUARDRAIL BOLTS AND RECESSED NUT**  
Scale: N.T.S.



| DESIGNATOR | BASE METAL THICKNESS |
|------------|----------------------|
| RWM02a     | 12 Gauge             |

**2 SPACE W-BEAM GUARDRAIL (RWM02a)**  
Scale: N.T.S.



THIS WORK WAS PREPARED BY ME OR  
UNDER MY SUPERVISION

SIGNATURE

04/30/16  
EXPIRATION DATE  
OF THE LICENSE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STRONG POST W-BEAM GUARDRAIL**  
  
KALANIANA'OLE HIGHWAY IMPROVEMENTS, PHASE 1  
Olomana Golf Course To Vicinity of Poalima St.  
Federal Aid Project No. NH-072-1(53)  
Scale: AS NOTED Date: July, 2015  
SHEET No. C19 OF 71 SHEETS

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DRAWN BY      |      |
| DESIGNED BY   |      |
| QUANTITIES BY |      |
| CHECKED BY    |      |
| No.           |      |

W:\CIVIL 3D PROJECTS\2008\_008\_000 DOT-HWY KAL HWY IMP WAIMANALO PH 1\C19 - STRONG POST W-BEAM GUARDRAIL.DWG 9/30/2015 4:43 PM