

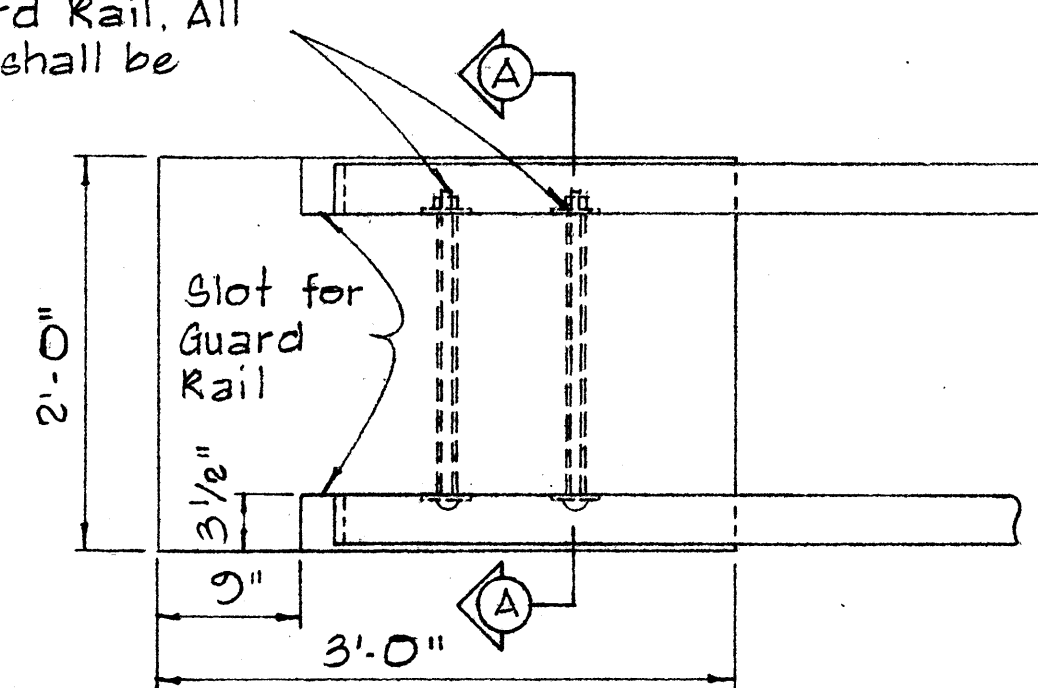
Technical drawing of a guard rail assembly, showing a side elevation. The drawing includes a horizontal rail with vertical posts and a lower element. Dimensions are given in feet and inches. Labels include "Post Bolt Hole", "Spacer Block BJC @ 8.5#", "Guard Rail Post BJC @ 8.5#", and "Guard Rail Element". A table in the top right corner shows project information.

|        |      |     |
|--------|------|-----|
| HAWAII | HAW. | GDC |
|--------|------|-----|

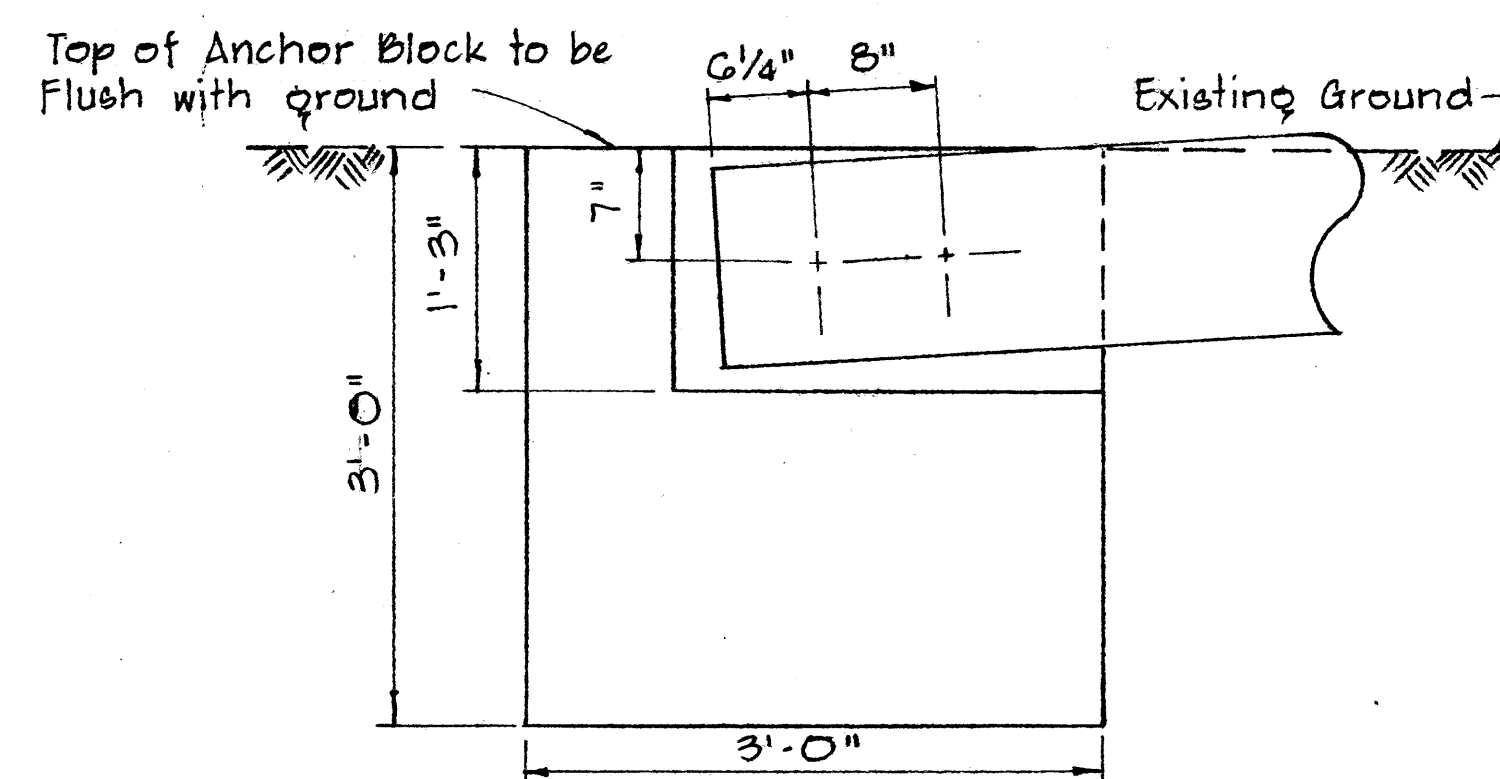
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### STRAIGHT APPROACH - RAMP END ANCHORAGE (MEDIAN)

5/8" Bolts with 3/4" G. I. Pipe  
Sleeve in each hole. Incidental  
to Metal Guard Rail, All  
Metal Pieces shall be  
Galvanized.



## PLAN



### ELEVATION

CONCRETE ANCHOR BLOCK FOR RAMP END

Diagram illustrating a section of a concrete wall. The wall is labeled "Class A-1 Concrete". A horizontal line indicates a "Neat Cut". Above the wall, there are two anchor blocks, each labeled "Top of Anchor Block to be flush with ground". The distance between the centers of the anchor blocks is marked as "2'-0\"". The height of the wall section shown is marked as "7'\"". The width of the wall section shown is marked as "1'-3\"". The wall is shown with a "Neat Cut" and "All Exposed Guard" on the right side.

SECTION A-A

All Excavation and Concrete required in the Guard Rail Ramp End Anchorage shall be incidental to Metal Guard Rail and no additional payment shall be made.

**STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION**

STANDARD DETAIL  
GUARD RAIL  
RAMP END ANCHORAGE

Scale: as Noted

August, 1968

**SHEET No. 12 OF 12 SHEETS**