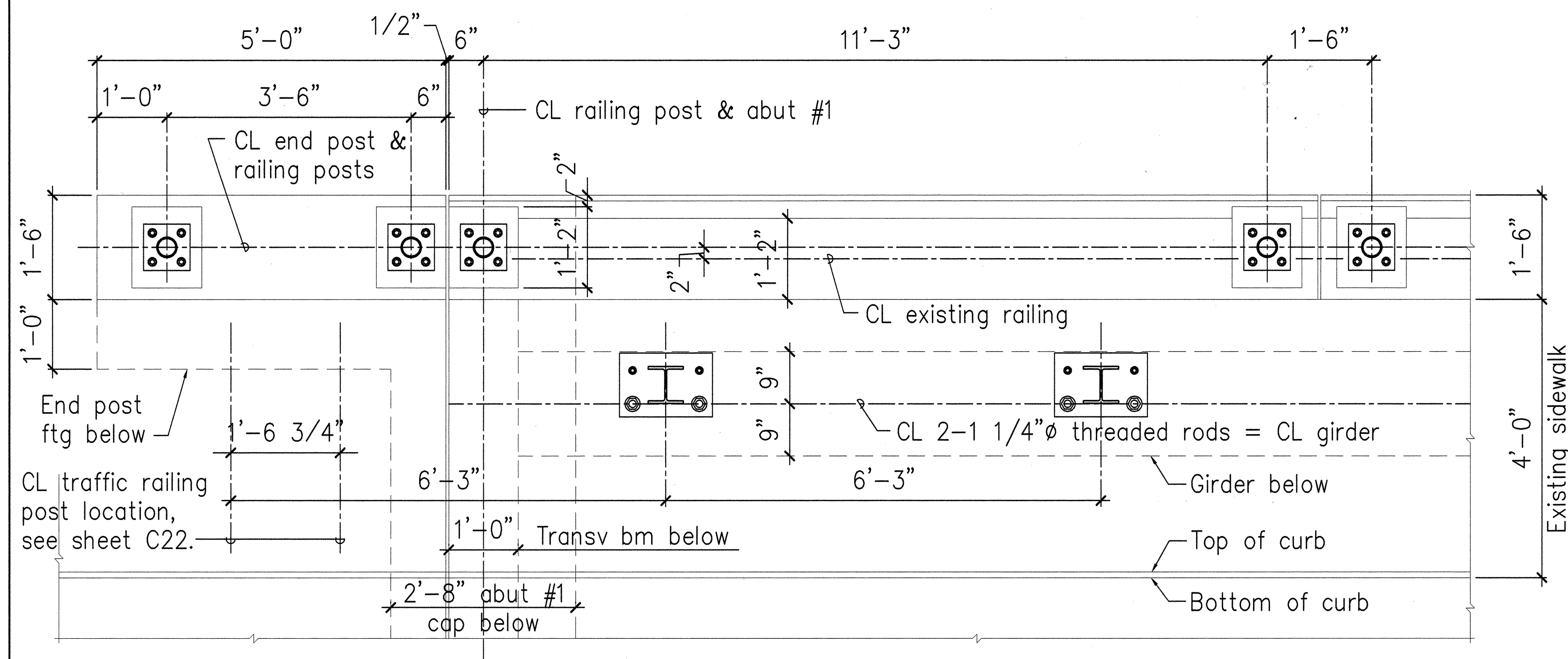






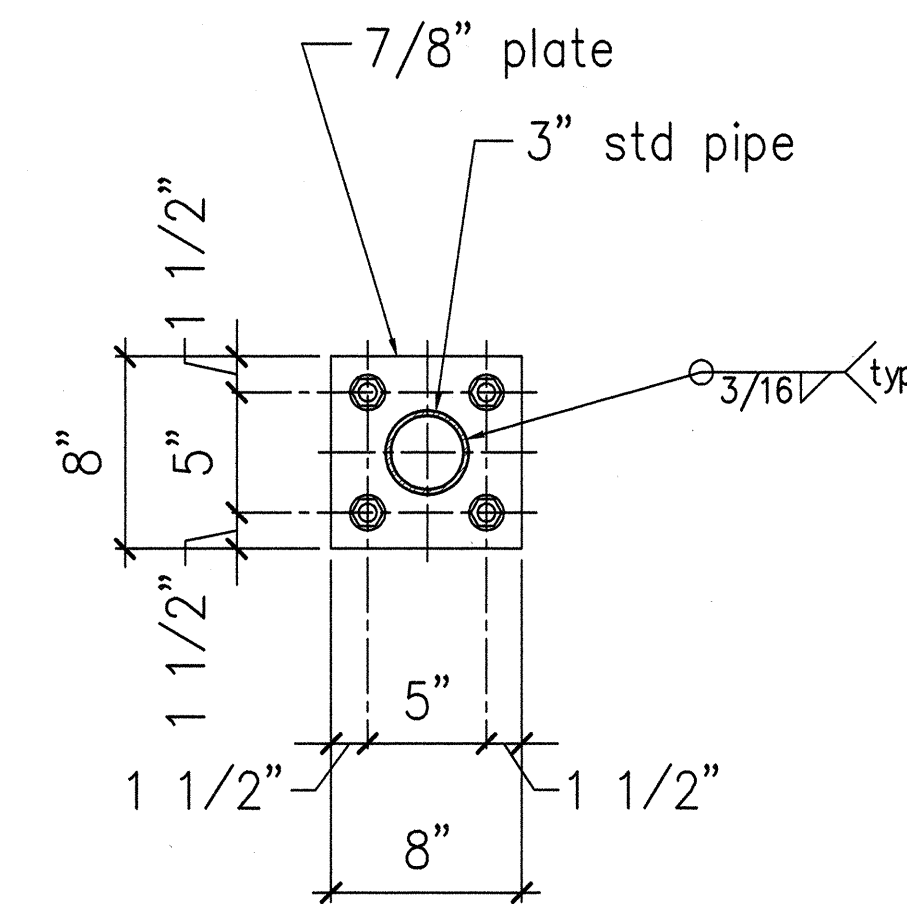
| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 50B-01-00M | 2002        | 3         | 40           |



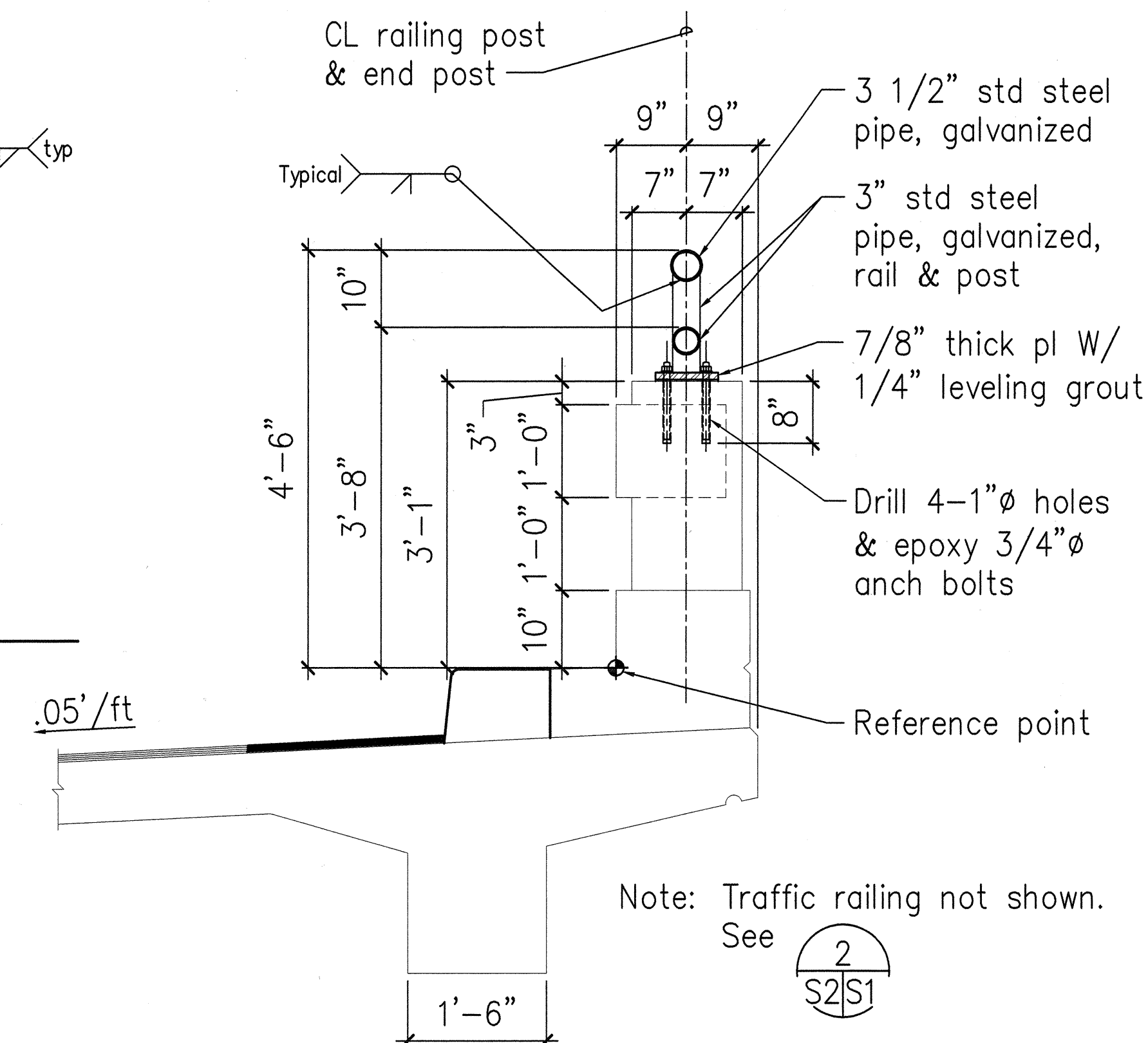
Note: Condition above shows relative location of new traffic railing posts to existing concrete railing. For new traffic railing and revised sidewalk configuration, see

2  
S2S1

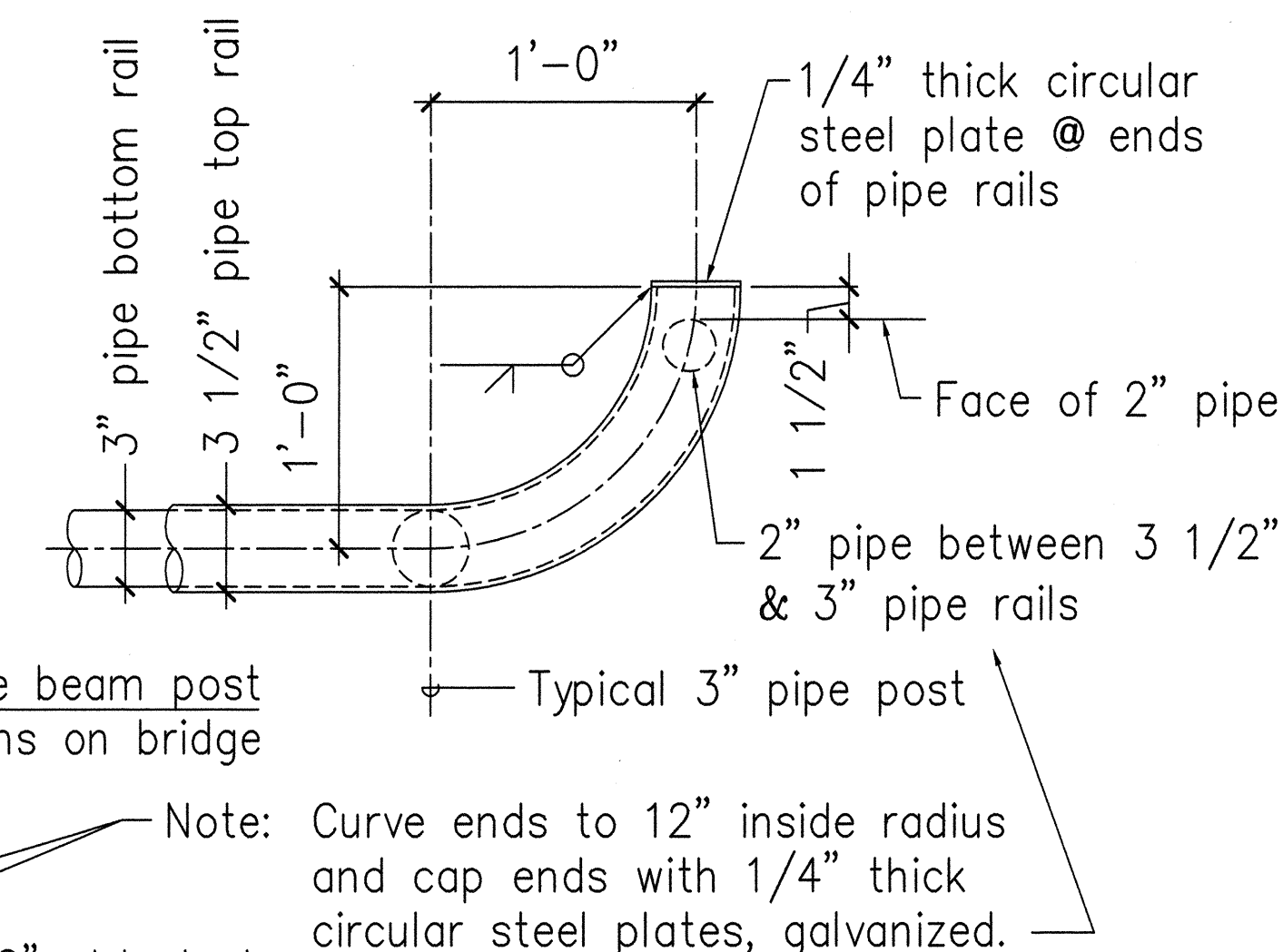
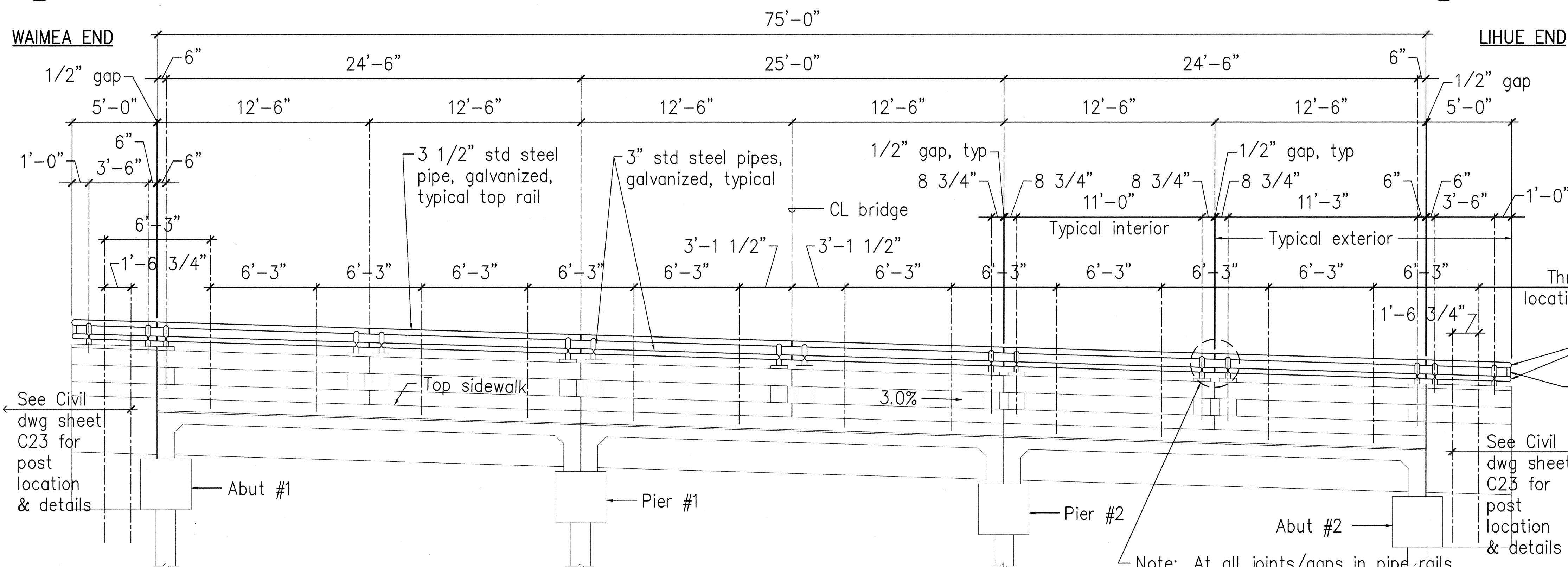
1 PARTIAL BICYCLE & TRAFFIC RAILING PLAN - AT ABUTMENT NO. 1  
S2S2 Scale: 3/4" = 1'-0"



3 TYPICAL BASE PLATE DETAIL  
S2S2 Scale: 1 1/2" = 1'-0"



A TYPICAL BICYCLE RAILING SECTION  
S1S2 Scale: 3/4" = 1'-0"



Note: At all joints/gaps in pipe rails, provide sleeves on inside of pipes, welded on one side of joint/gap. See detail

8  
S2C17

2 BICYCLE & TRAFFIC RAILING LAYOUT - ELEVATION  
S2S2 Scale: 1/4" = 1'-0"

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HAWAII, U.S.A.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**MAHAIKONA BRIDGE**  
**NEW BICYCLE & TRAFFIC RAILINGS**  
KAUMUALII HIGHWAY RESURFACING  
Mahaikona Bridge To Waimea Canyon Drive  
Project No. 50B-01-00M

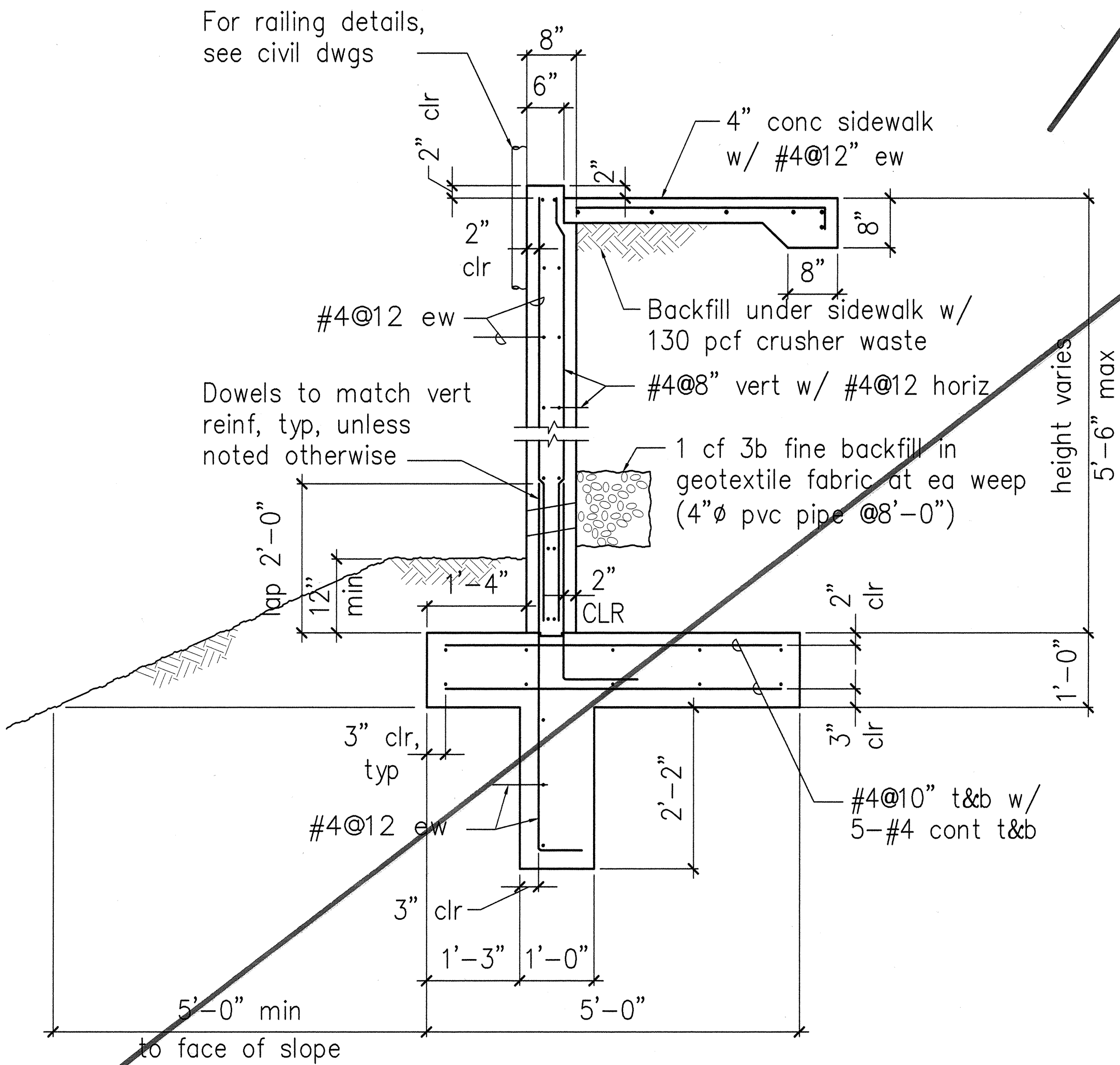
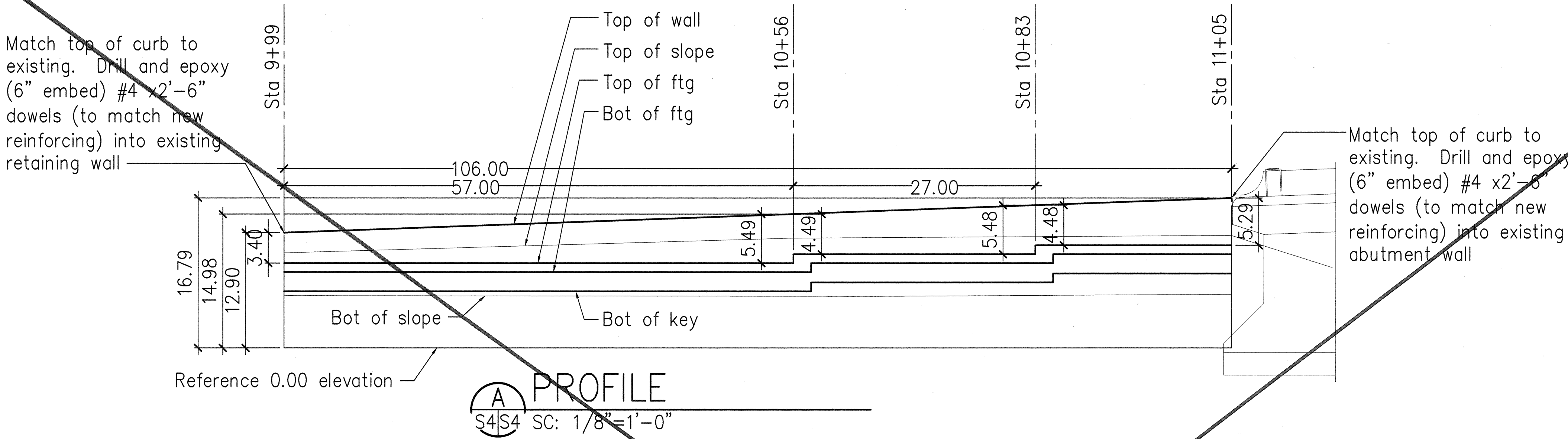
Scale: As Noted Date: 12/18/00  
SHEET NO. S2 OF 4 SHEETS





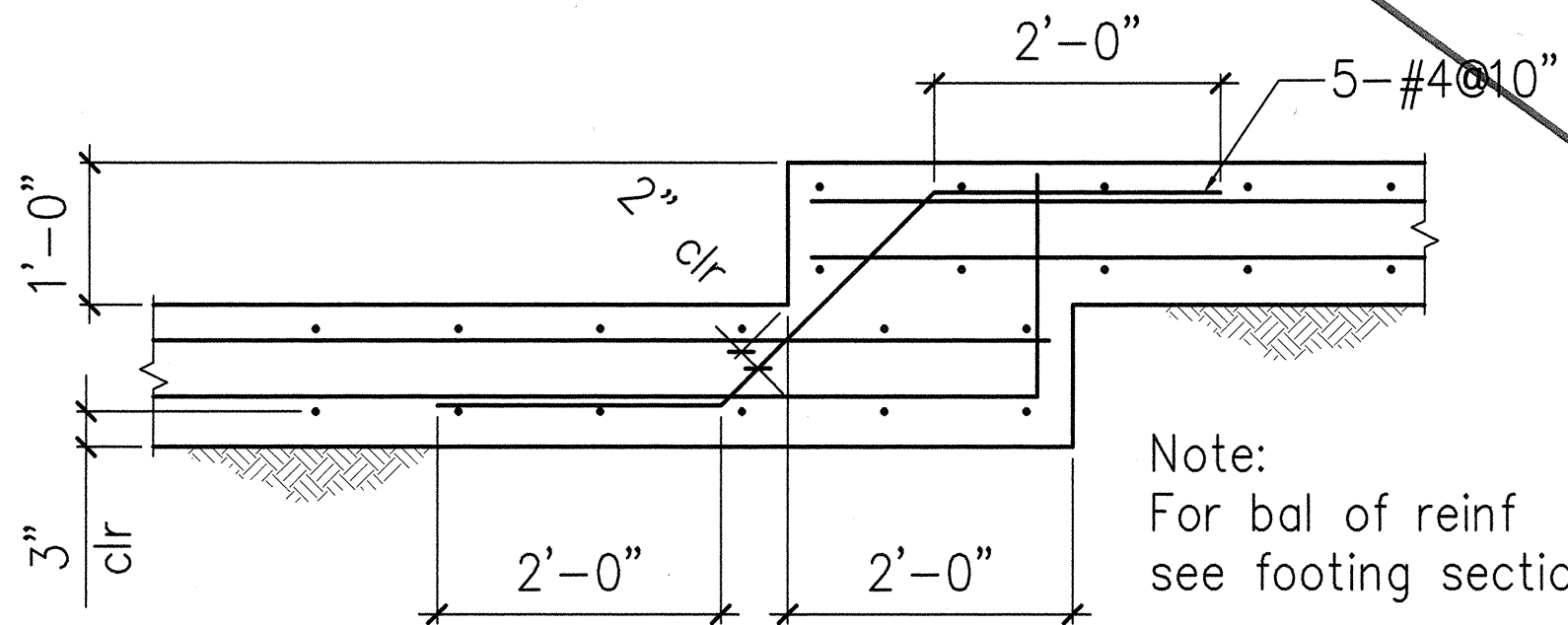


| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 50B-01-00M | 2002        | 33        | 40           |



**B TYPICAL WALL SECTION**

S4/S4 SC: 3/4"=1'-0"

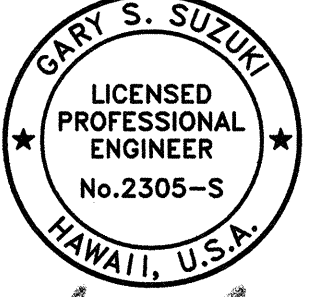


**C TYPICAL STEP FTG SECTION**

S4/S4 SC: 3/4"=1'-0"

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY       |      |
| TRACED BY         |      |
| NOTED BY          |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     |      |
| NO.               |      |

G:\LIONEL\Des\_Gar\99083\_Rt50\_Kauai\99083-S4.dwg 01/23/01 15:16 SC:1



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION  
 BY: *[Signature]*  
 DATE: 12/19/00

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**WAIMEA BRIDGE – REPLACE EXISTING**

**RETAINING WALL AT UPSTREAM, WAIMEA END**

KAUMUALII HIGHWAY RESURFACING

Mahaikona Bridge To Waimea Canyon Drive

Project No. 50B-01-00M

Scale: As Noted Date: 12/18/00

SHEET NO. S4 OF 4 SHEETS

"AS-BUILT"