

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-02-89	1990	3	6

GENERAL STRUCTURAL NOTES

DESIGN SPECIFICATIONS:
 AASHTO Standard Specifications for Highway Bridges (14th edition).

DESIGN LOADS:
 85 lbs. per square foot.

MATERIALS:

- Concrete - Class A.
- Structural Timber & Lumber - See Special Provisions.
- Structural Steel - ASTM A36.
- Adhesive anchors - See Special Provisions.

CONSTRUCTION METHODS:

- See Standard Specification for Road & Bridge Construction 1985 Edition and Special Provisions.
- All bolts, anchor bolts, structural steel shapes and plates after fabrication shall be hot-dip galvanized.
- Painting - See Special Provisions.
- Welding - See Bridge Welding Code ANSI/AASHTO/AWS D1.5-88.
- Concrete Walkway - See Sub-Section 608.03, construction requirements of the Standard Specification.

GENERAL:

- Items noted incidental will not be paid for separately.
- It shall be the responsibility of the Contractor to verify the locations of all existing utilities near the bridge and notify their respective owners before commencing work.
- The Contractor shall verify the dimensions and details of the existing structure and the Footbridge, shown on the Plan, before commencing with the work.
- Large impacting or vibratory types of equipment will not be permitted in the drilling of holes for anchor bolts.
- The Contractor shall be solely responsible for the protection of the adjacent property, utilities, existing and new structures from damage due to construction and shall repair any damage at his own expense to the satisfaction of the Engineer.
- Dress approach to walkway as required and as directed by the Engineer.

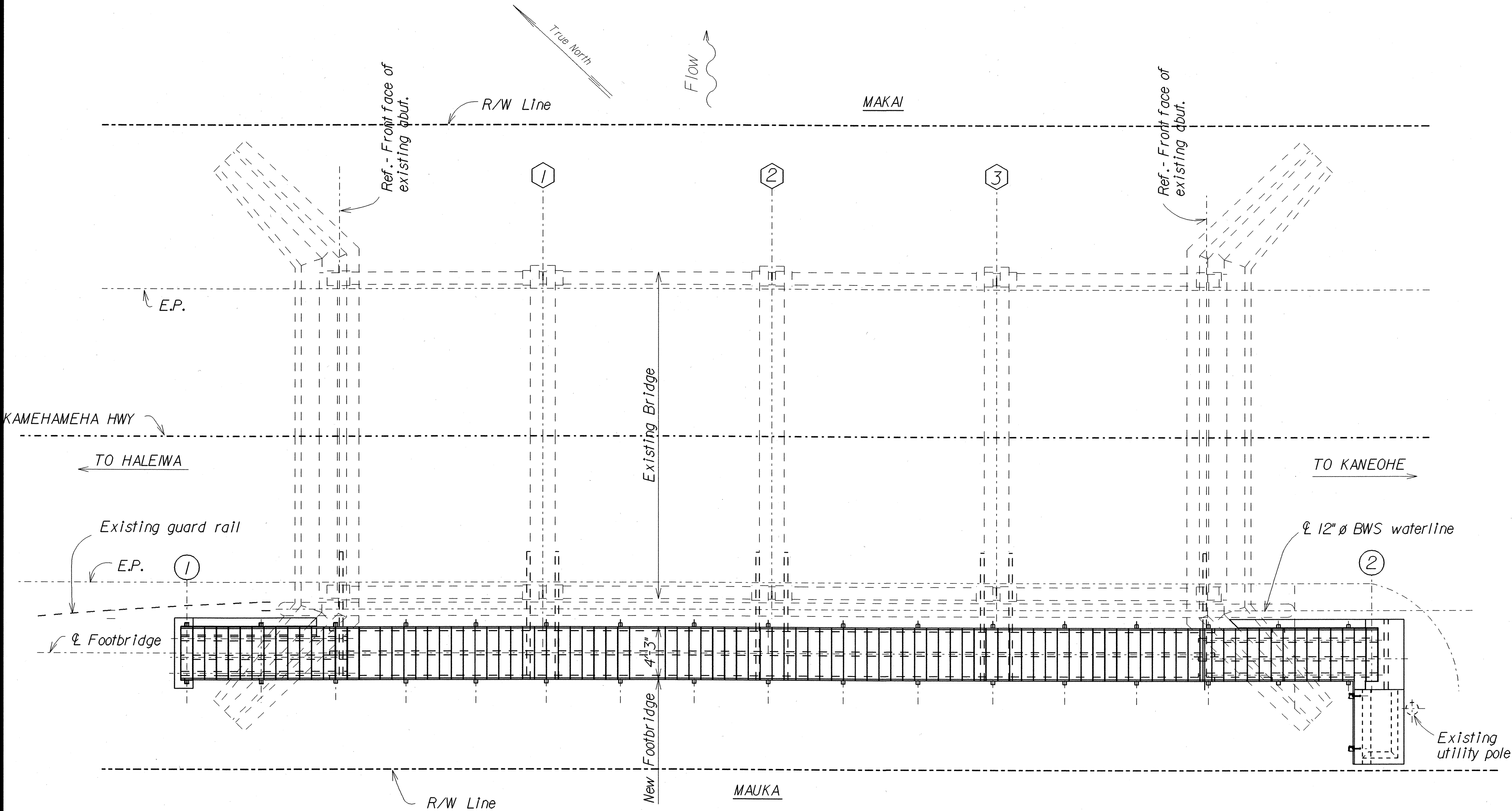
ESTIMATED QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITIES
206.2140	Structure Excavation	Cu. Yds.	13 C.Y.
501.0201	Structural Steel	(L.S.)	3050 Lbs.
502.2100	Treated Timber (incl. Carriage Bolts & Nails)	(L.S.)	3.2 MFBM
503.0150	Class A Concrete	(L.S.)	4 C.Y.
520.1096	Adhesive Anchors & Drilled Holes	Ea.	104 Ea.
602.0075	Reinforcing Steel	(L.S.)	100 Lbs.

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
FOOTBRIDGE AT WAIMANANA BRIDGE
 KAMEHAMEHA HIGHWAY
 LAYOUT PLAN, LONGITUDINAL SECTION
 & GENERAL NOTES
 Proj. No. 83D-02-89

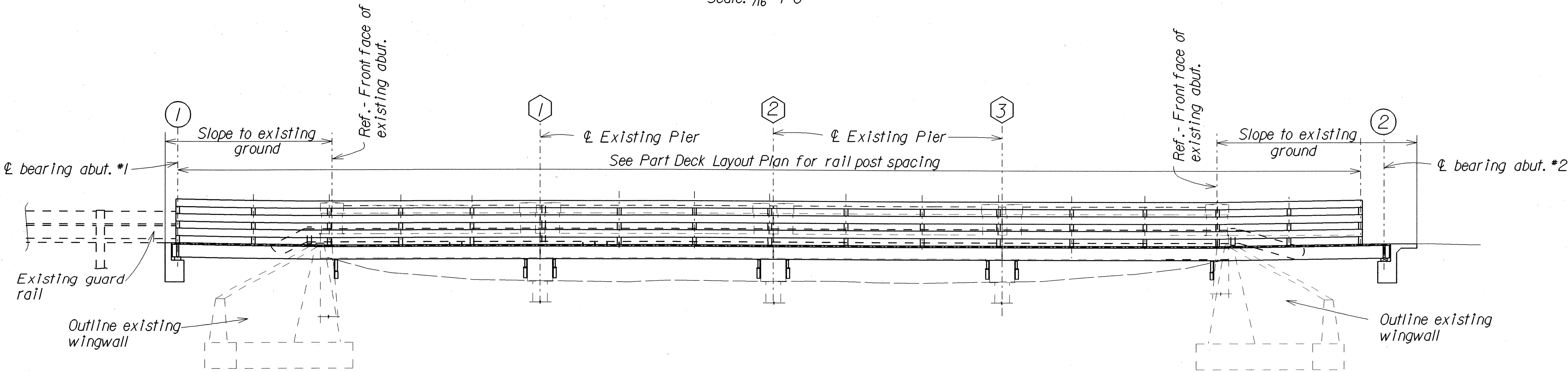
Scale: As Noted Date: August 1989

SHEET No. 51 OF 4 SHEETS



LAYOUT PLAN

Scale: 3/16" = 1'-0"

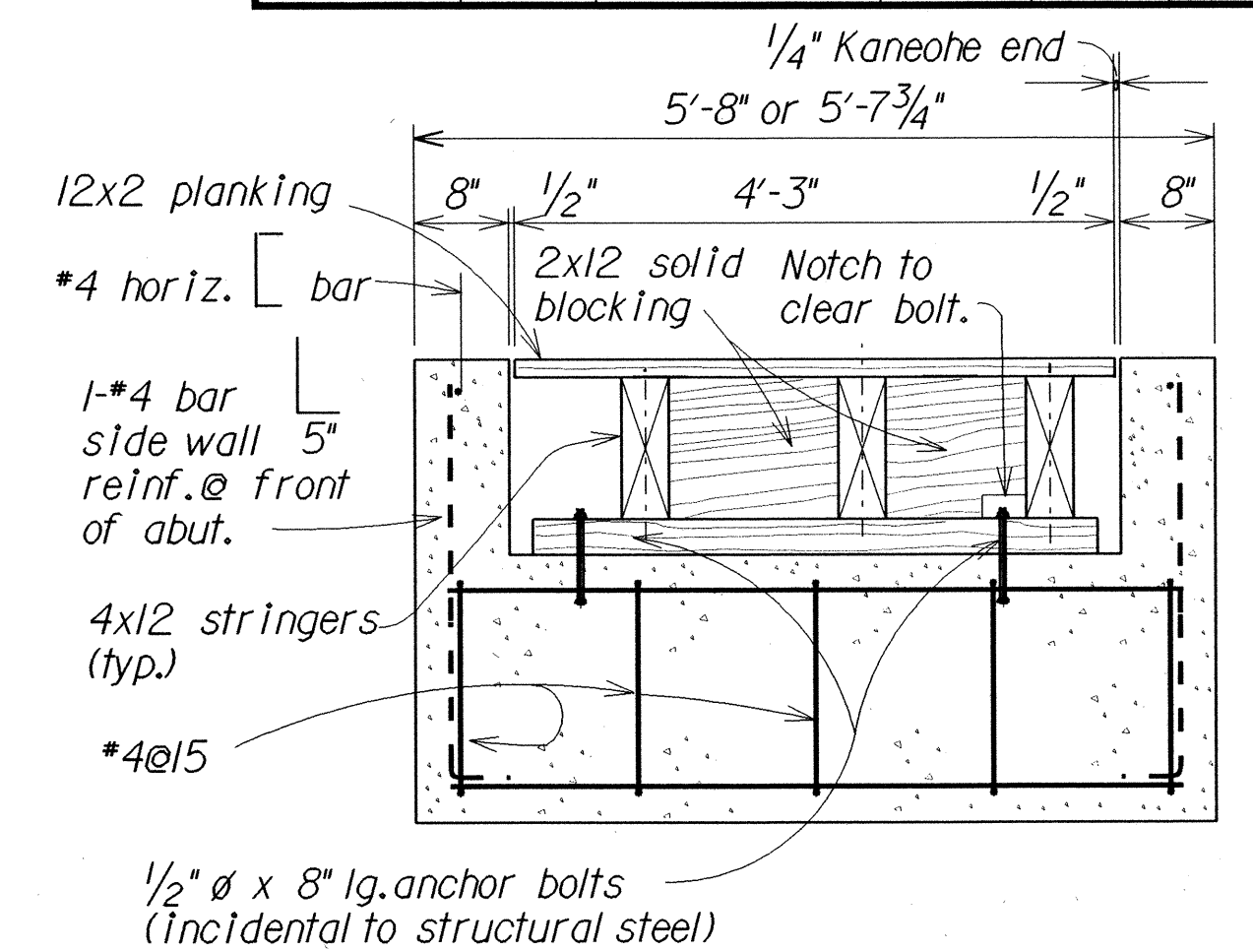
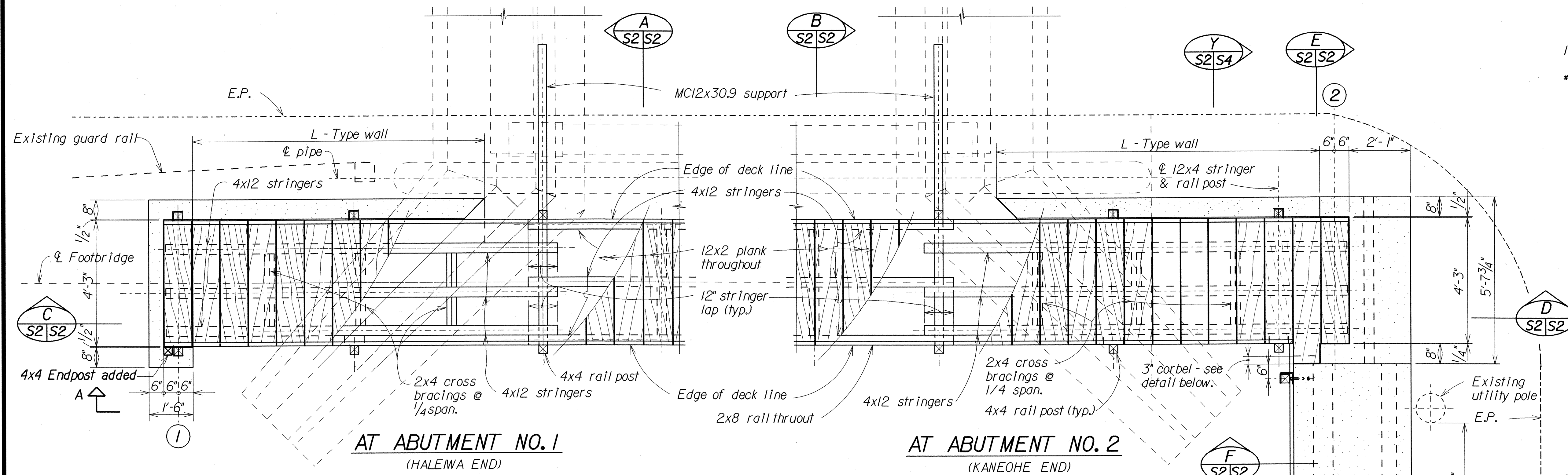


LONGITUDINAL SECTION ALONG Ø FOOTBRIDGE

Scale: 3/16" = 1'-0"

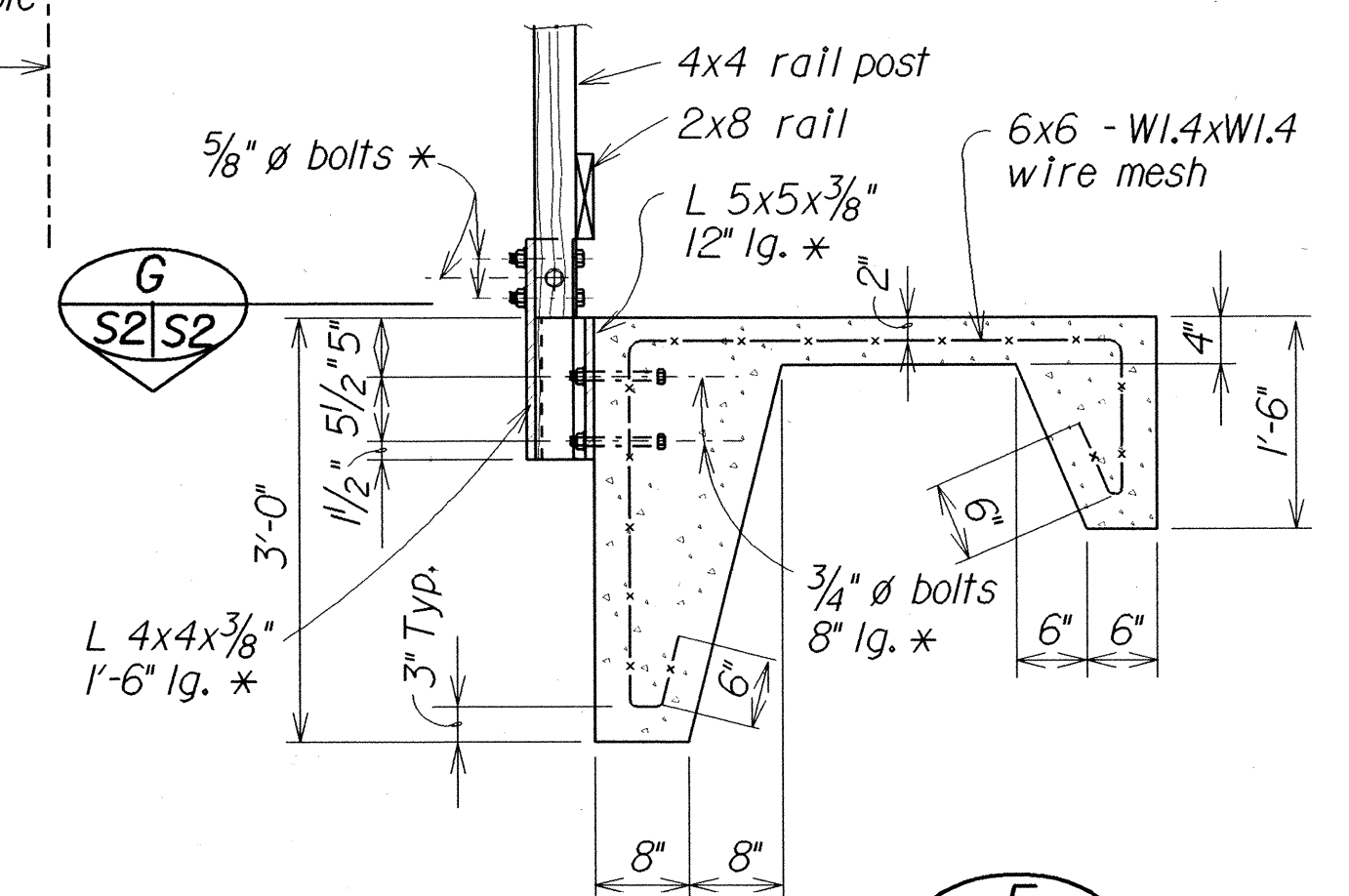
DESIGNED BY	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
N. 10103	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-02-89	1990	4	6



SECTION

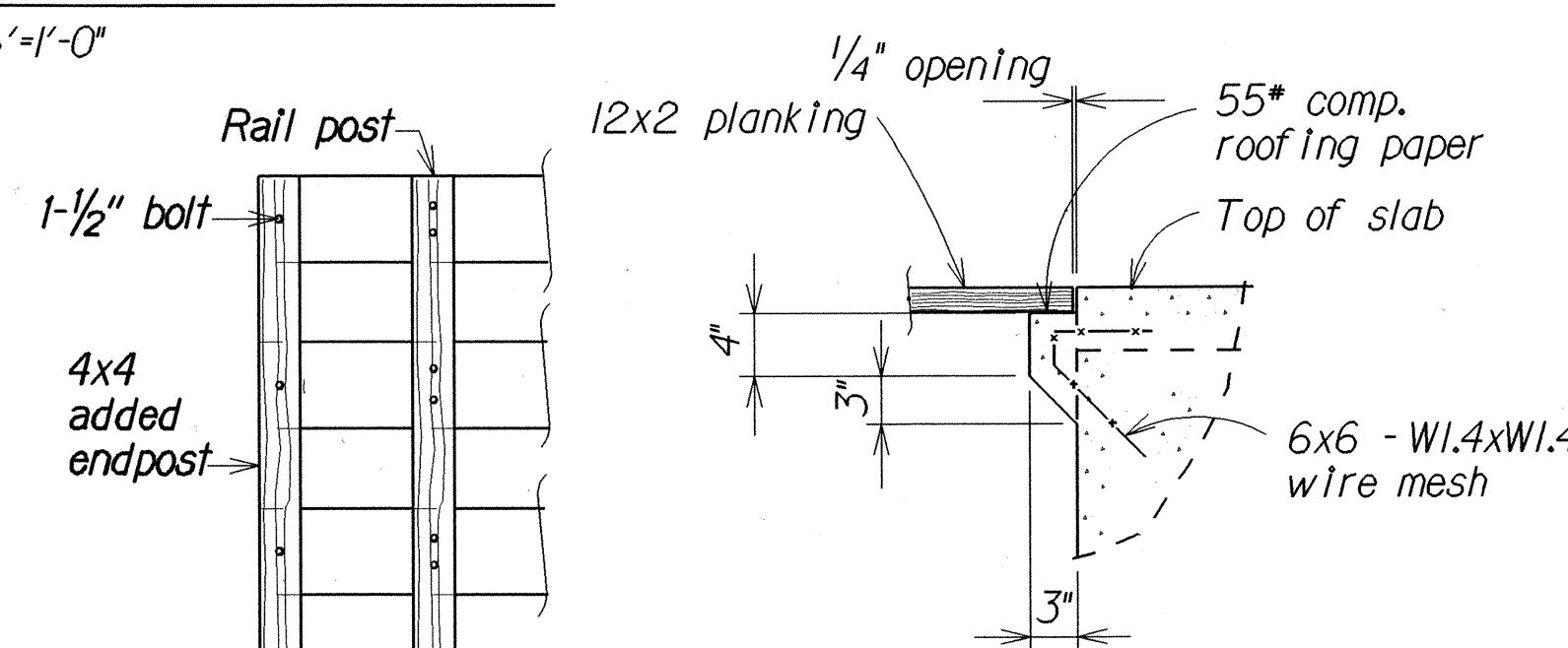
Scale: $\frac{3}{4}" = 1' - 0"$



SECTION

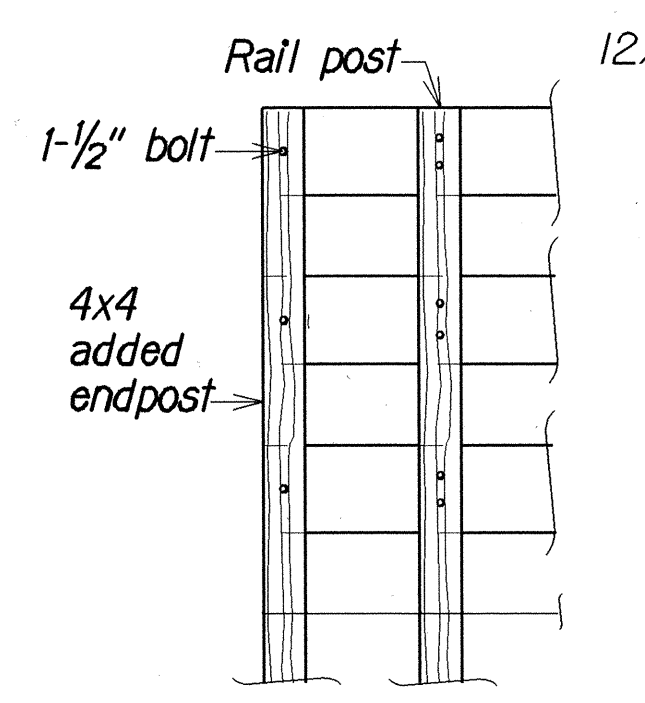
Scale: $\frac{3}{4}" = 1' - 0"$

* *Incidental to structural steel.*



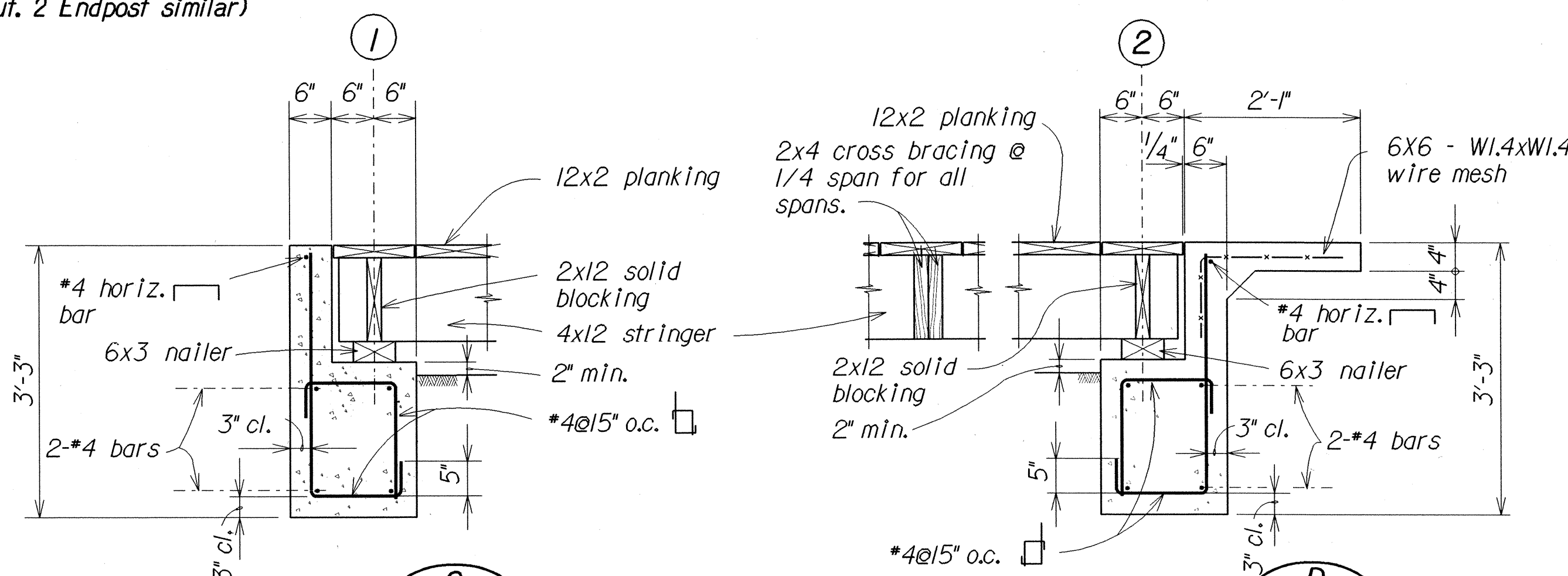
CORBEL DETAIL

Scale: $1' = 1'-0''$



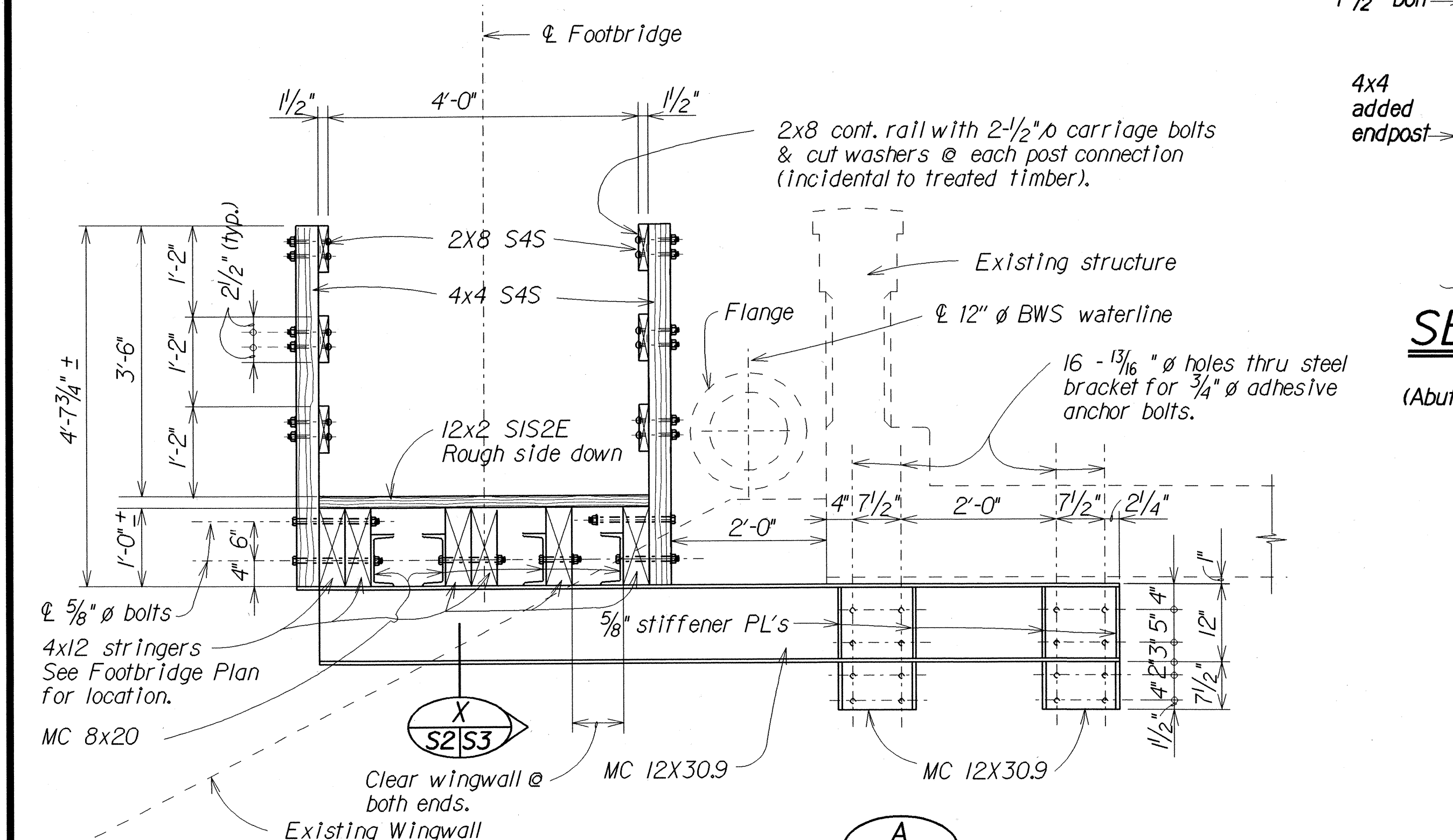
SECTION A

N.T.S.
(Abut. 2 Endpost similar)



SECTION

Scale: $\frac{3}{4}" = 1' - 0"$



SECTION

Scale: $\frac{3}{4}" = 1' - 0"$

SECTION  SIMILAR EXCEPT OPPOSITE HAND AND AS SHOWN

<u>LEGEND FOR</u>	
<u>AS-BUILT POSTINGS</u>	
~~~~~	Squiggly line for as-built deletion
<del>100.00</del>	Double line for as-built deletion
Roadway	Text for as-built posting

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

FOOTBRIDGE AT WAIMANANA BRIDGE  
KAMEHAMEHA HIGHWAY

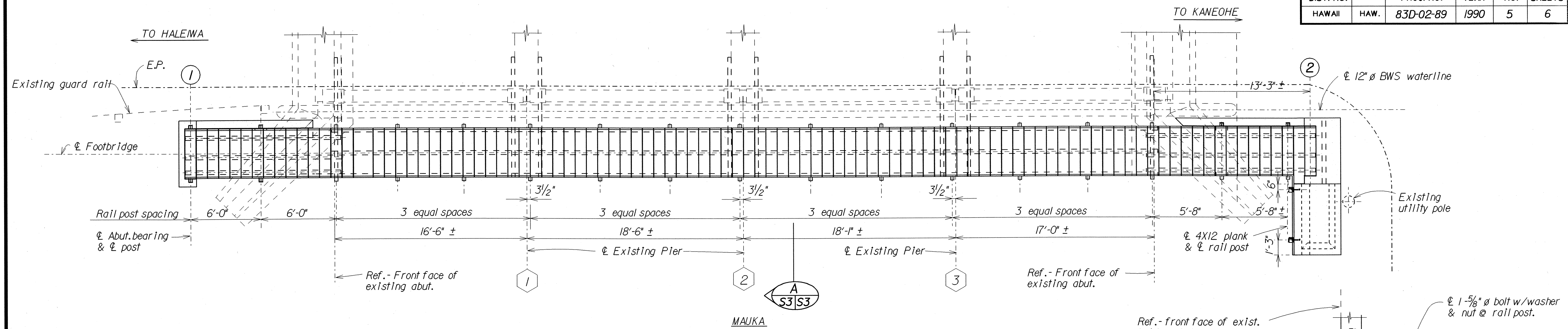
PART LAYOUT PLAN & FOOTBRIDGE DETAILS

Proj. No. 83D-02-89      Date: August 1989

Scale: As Noted

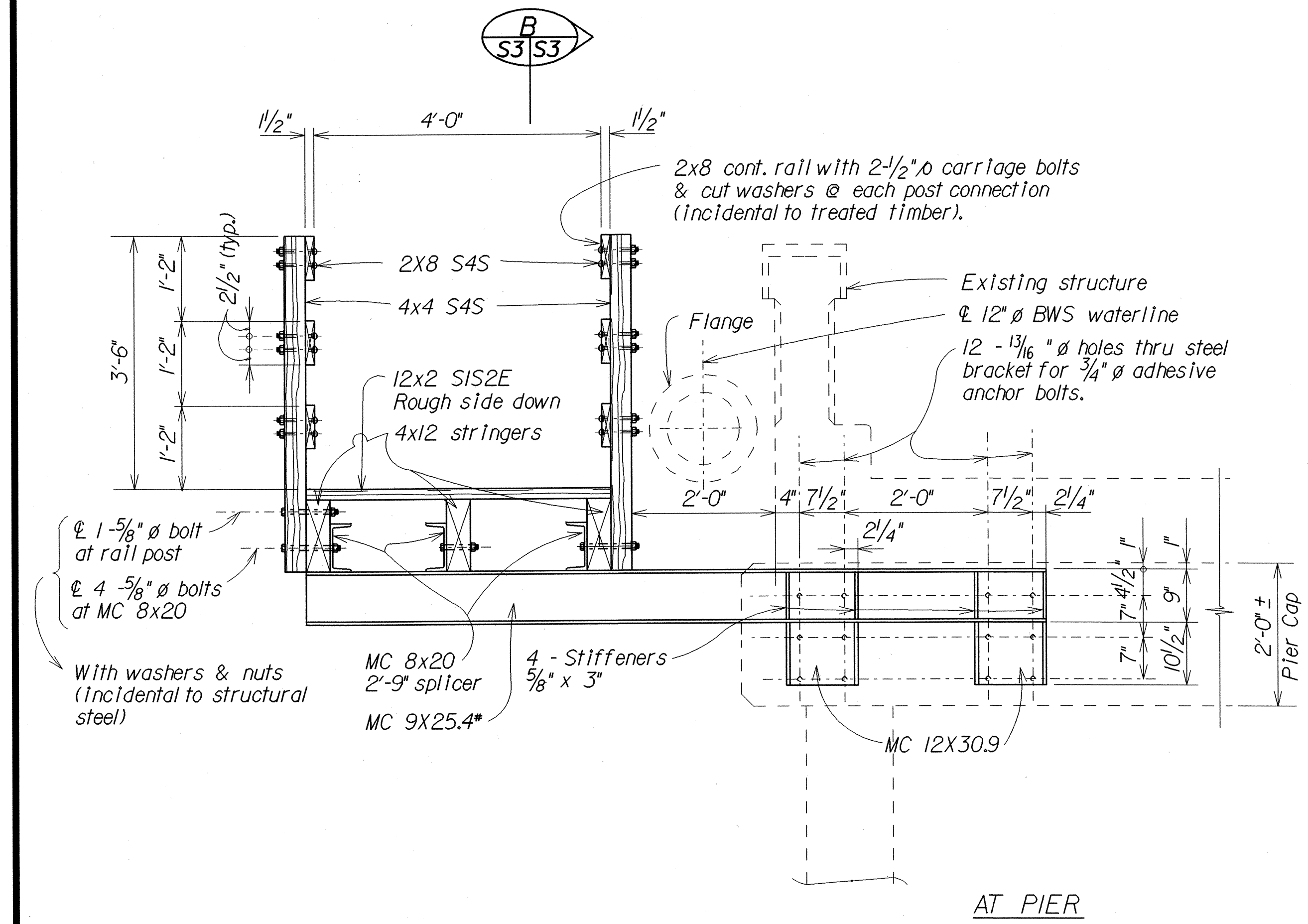
SHEET No. S2 OF 4 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-02-89	1990	5	6



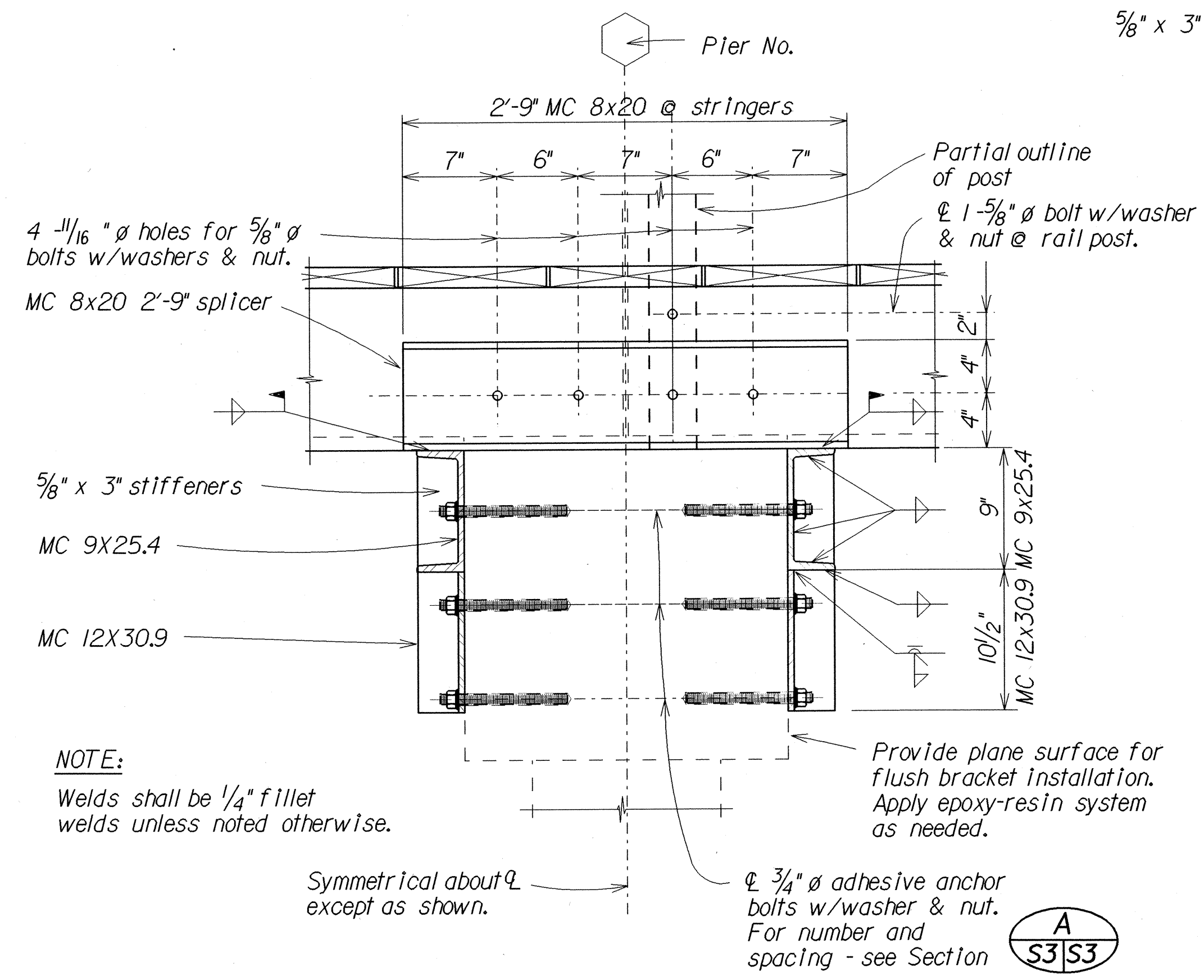
# PLAN - FOOTBRIDGE

Scale: 1/4"=1'-0"



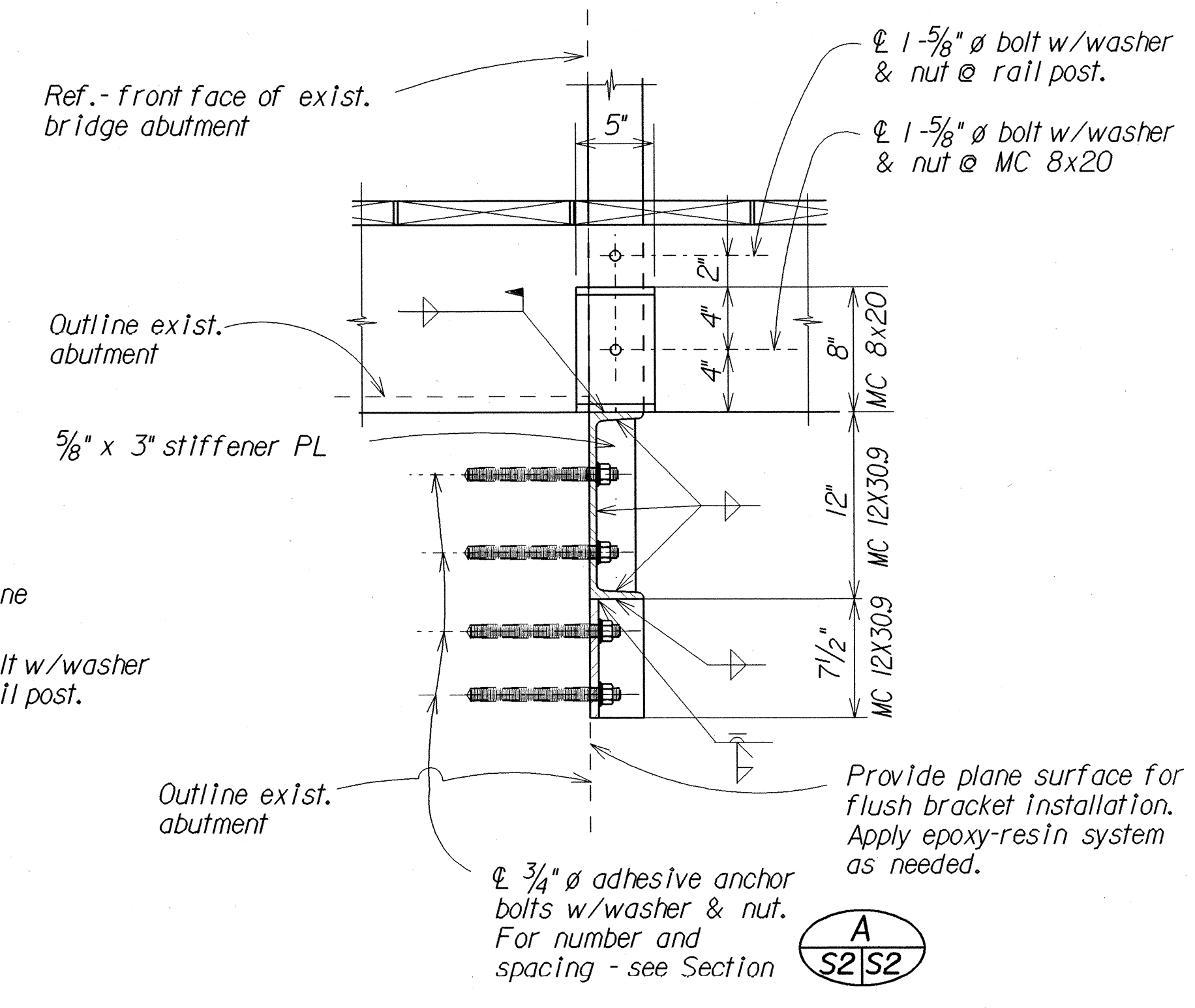
# TYPICAL SECTION

Scale: 3/4"=1'-0"



# TYPICAL SECTION

Scale: 1/2"=1'-0"



# TYPICAL SECTION

Scale: 1/2"=1'-0"

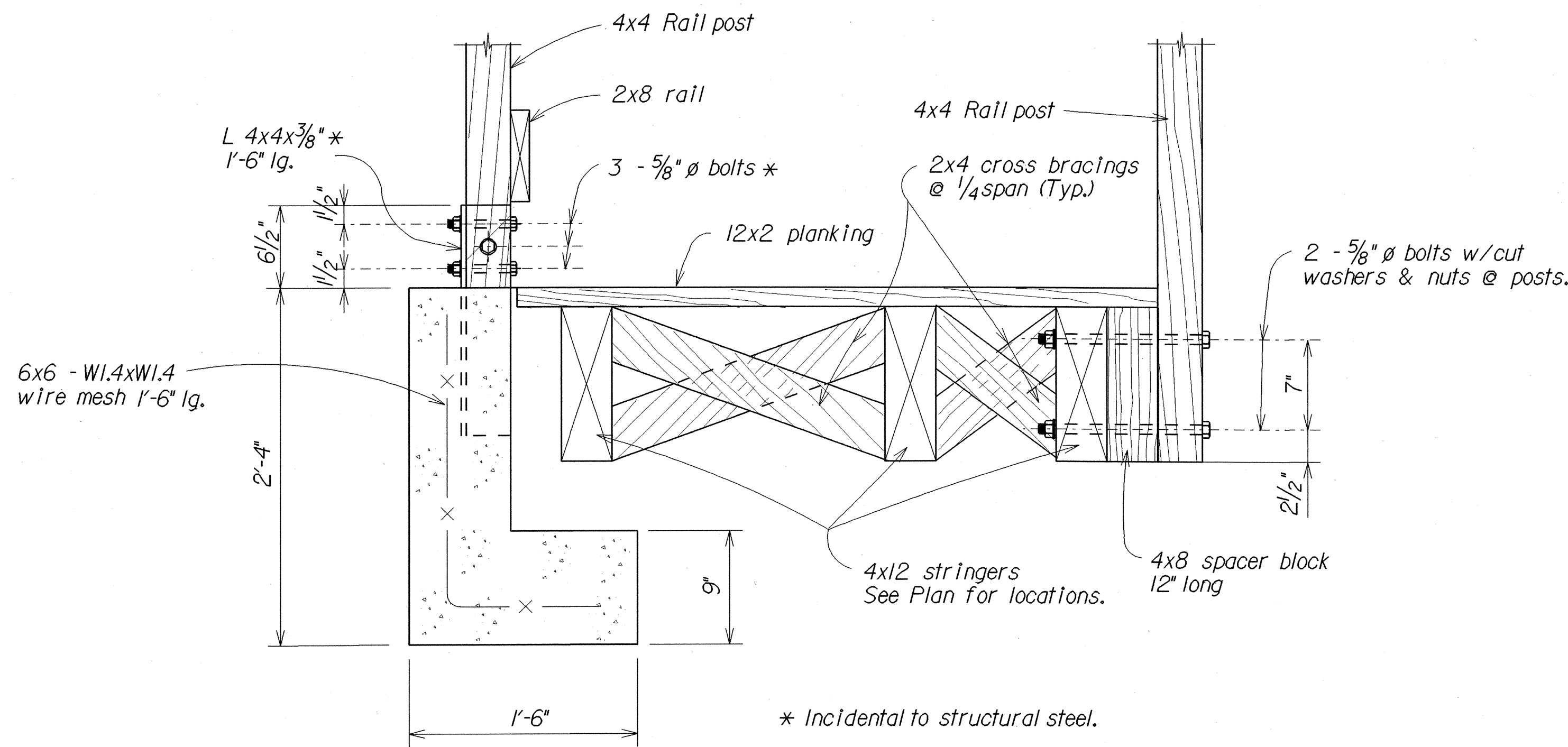
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**FOOTBRIDGE AT WAIMANANA BRIDGE**  
**KAMEHAMEHA HIGHWAY**  
**PLAN - FOOTBRIDGE & TYPICAL SECTIONS**  
Proj. No. 83D-02-89  
Date: August 1989

SHEET No. S3 OF 4 SHEETS

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____

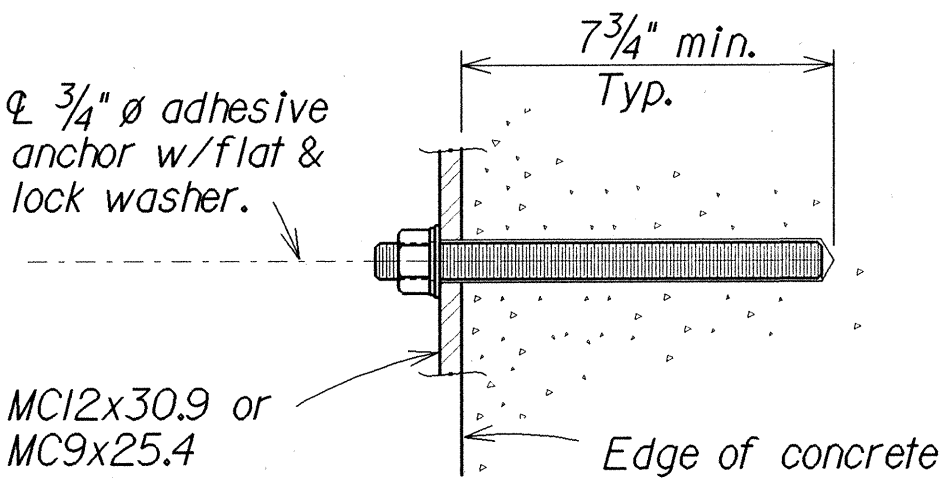
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-02-89	1990	6	6



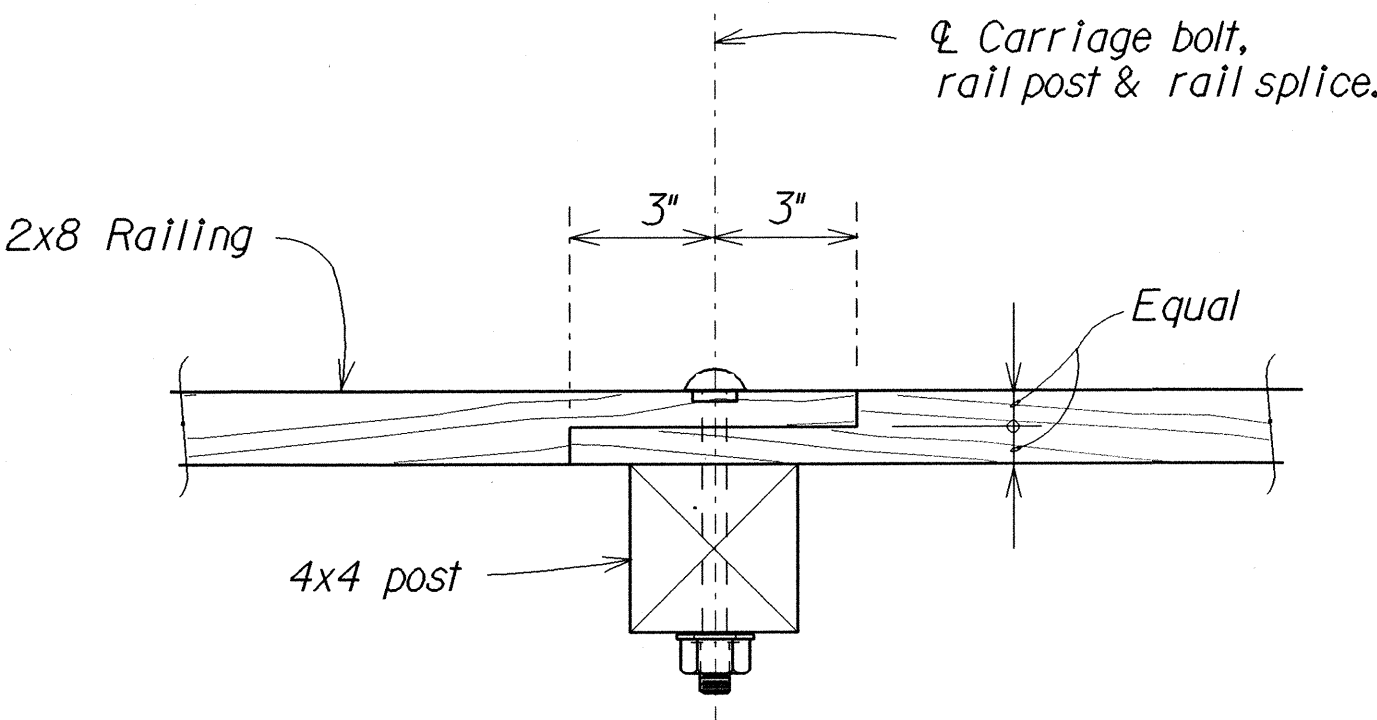
**TYPICAL SECTION**  
Scale: 1 1/2"=1'-0"

**NOTE:**

Adhesive anchor (including drilling)  
Incidental to structural steel.

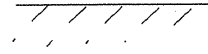


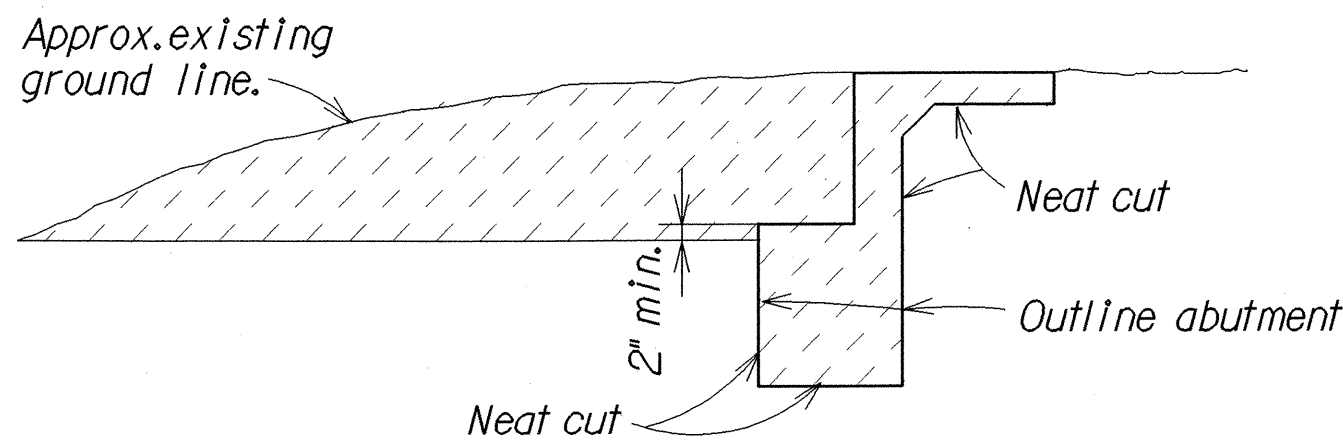
**TYPICAL ADHESIVE ANCHOR DETAIL**  
Scale: 3"=1'-0"



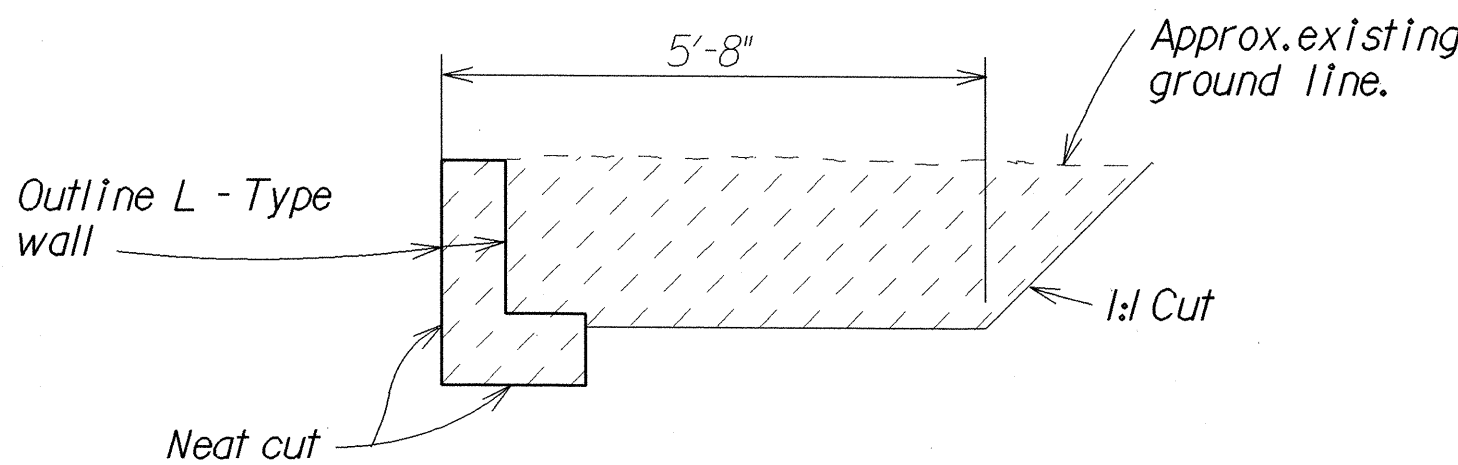
**TYPICAL RAIL SPLICE DETAIL**  
Scale: 3"=1'-0"

**NOTE:**

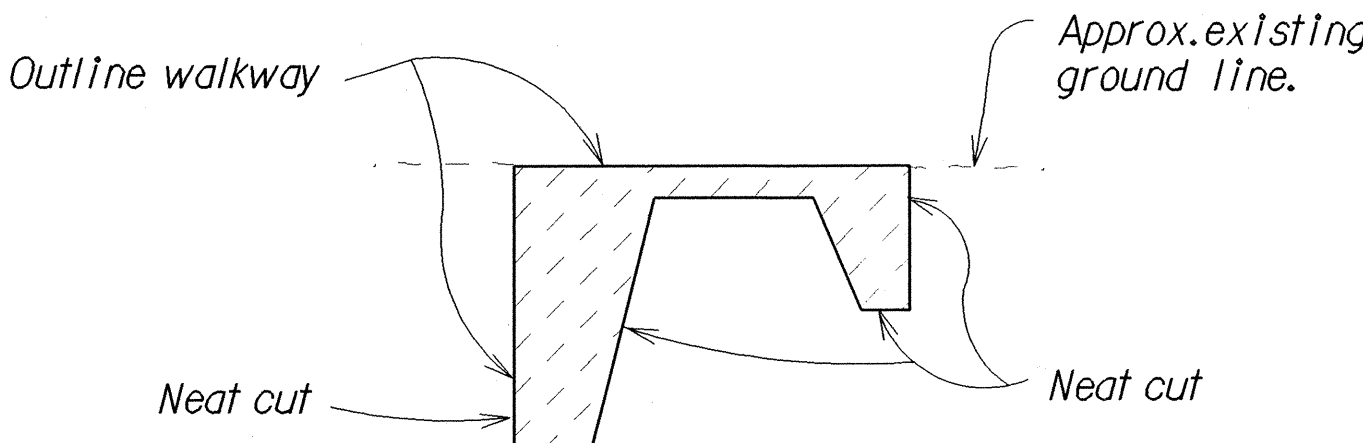
Hatched area shown thus  denote limits  
of structure excavation payline.



**AT ABUTMENT**



**AT L - TYPE WALL**



**AT CONCRETE WALKWAY**

**STRUCTURE EXCAVATION DETAILS**  
Not to Scale

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**FOOTBRIDGE AT WAIMANANA BRIDGE**  
KAMEHAMEHA HIGHWAY  
STRUCTURE EXCAVATION DETAILS &  
MISCELLANEOUS DETAILS  
Proj. No. 83D-02-89

Scale: As Noted Date: August 1989

DATE	_____
SURVEY PLOTTED BY	JW
DESIGNED BY	SA
QUANTITIES BY	SA
CHECKED BY	SA
ORIGINAL PLAN	_____
NOTE BOOK	_____
No. w/ing	_____