

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83E-01-91	1992	3	6

GENERAL STRUCTURAL NOTES

DESIGN SPECIFICATIONS:

AASHTO Standard Specification for Highway Bridges (14th Edition) with subsequent Interim Specifications for Bridges.

DESIGN LOADS:

85 lbs. per square foot.

MATERIALS:

- Concrete for reinforced slab - Class A.
- Structural Timber and Lumber - See Special Provisions, Section 520 Wooden Footbridge.
- Structural Steel - ASTM A36.
- Adhesive anchors - See Special Provisions. (Section 520)

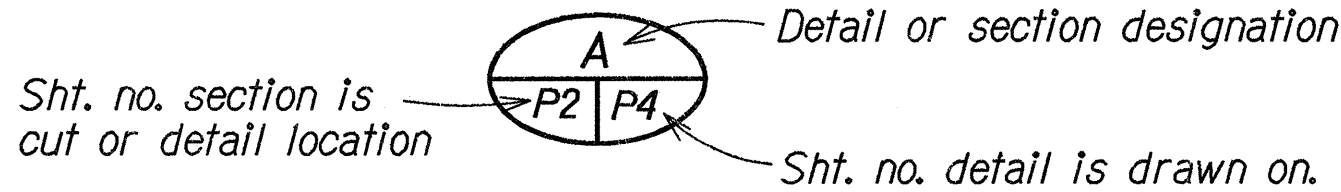
CONSTRUCTION METHODS:

- Refer to Standard Specification for Road and Bridge Construction, (Hawaii 1985 Edition) and Special Provisions.
- All bolts, anchor bolts, nuts and washers shall be hot-dip galvanized according to ASTM A153.
- All structural steel shapes and plates shall be hot-dip galvanized after fabrication.
- Cracks in abutment wingwalls shall be repaired according to Section 677 "Sealing Cracks in Bridges" of the Special Provisions. Patch spalled area with neat bonding agent plus concrete or mortar approved by the Engineer.
- Except as noted otherwise, all vertical dimensions are measured plumb.
- Welding - See Bridge Welding Code as Amended - ANSI/AASHTO/AWS D1.5-88.
- Concrete slab - See Sub-Section 608.03 Construction Requirements (A) Concrete sidewalks.
- The Contractor shall be solely responsible for the protection of 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. He shall conduct his work in such a manner and provide temporary shoring or other measures as may be necessary to insure the safety of all concerned.
- Large impacting or vibratory type of equipment will not be permitted for drilling of holes.
- Small vibratory tools, approved by the Engineer, will be permitted for the drilling of holes for anchor bolts.

GENERAL:

- Refer to Standard Plans for additional details and notes not covered by details and typical drawings.
- The Contractor shall verify all grades and dimensions before commencing with any work.
- The Contractor shall verify the details of the existing structure and dimensions for the new walkway shown on the plans before commencing with any work.
- The Contractor shall verify the locations of all existing utility lines near the bridge or structures and notify their respective owners before commencing with any work.
- Dress approach and sides of concrete slab to provide a smooth and gradual transition to the existing grade.

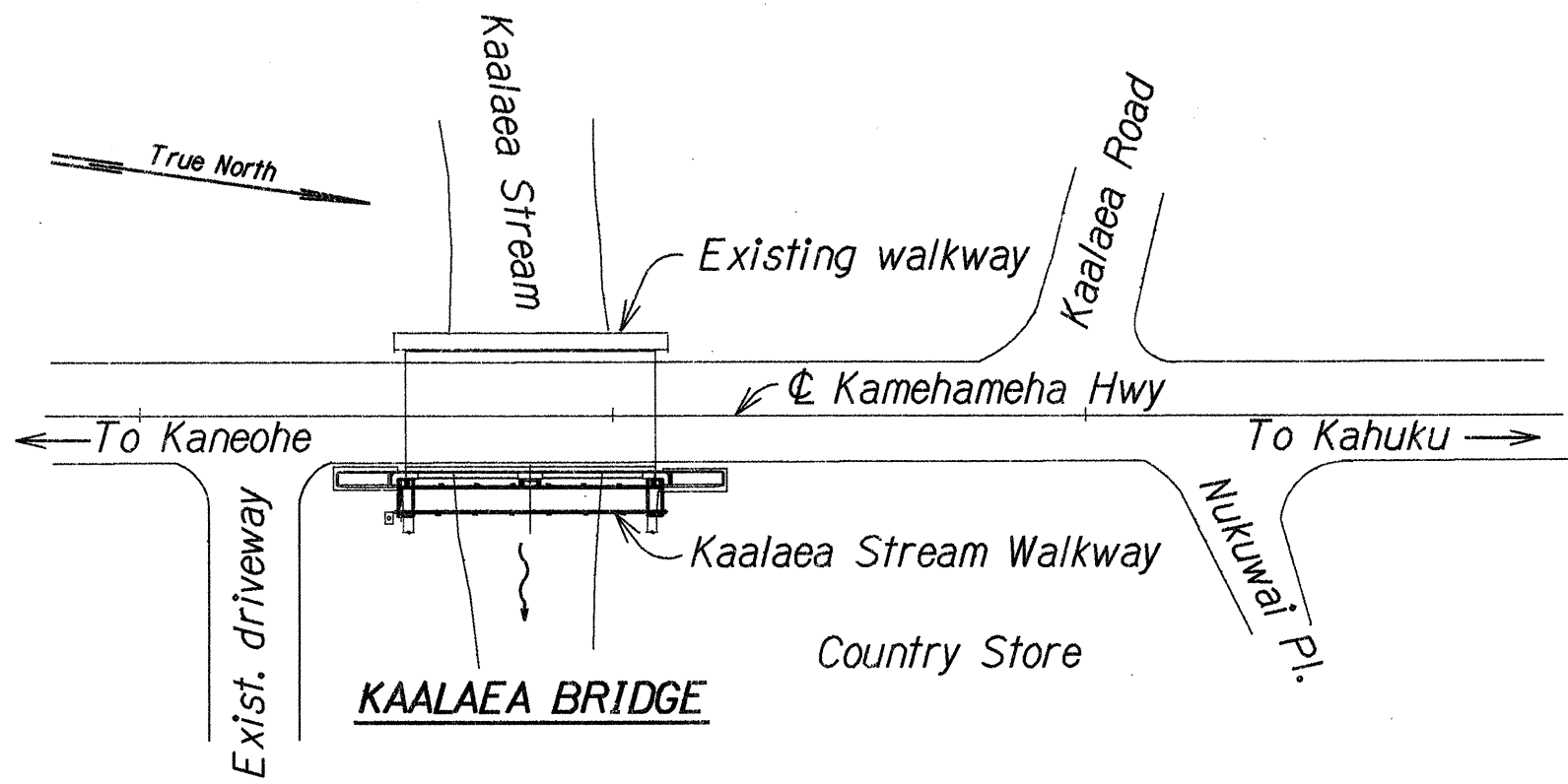
SYMBOL



ORIGINAL PLAN	DATE	1/91
DRAWN BY	SA	1/91
DESIGN FILE	SA	1/91
QUANTITIES BY	SA	1/91
CHECKED BY	SA	1/91
NO.	1001/1000	

ESTIMATED QUANTITIES

ITEM	UNIT	QUANTITIES
Structure Excavation	Cu. Yd.	.6 c.y.
Structural Steel	Lbs.	1800 lbs.
Treated Timber (Including Carriage Bolts & Nails)	MFBM	1.3 MFBM
Class A Concrete	Cu. Yd.	1 c.y.
Adhesive Anchors & Drilled Holes	Each	60 ea.
Crack Repair	L.F.	8 Ft.



LOCATION PLAN

Not to Scale

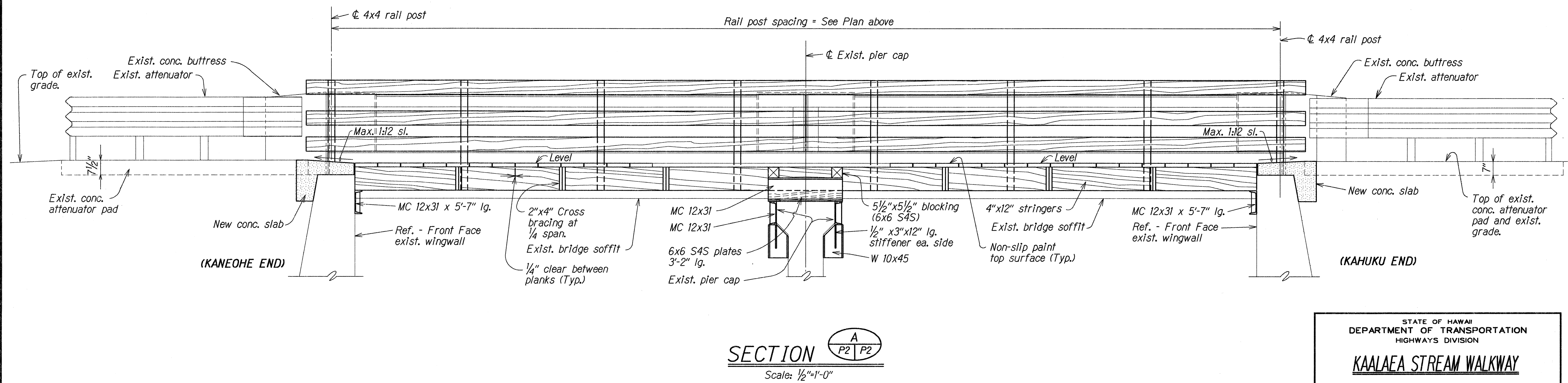
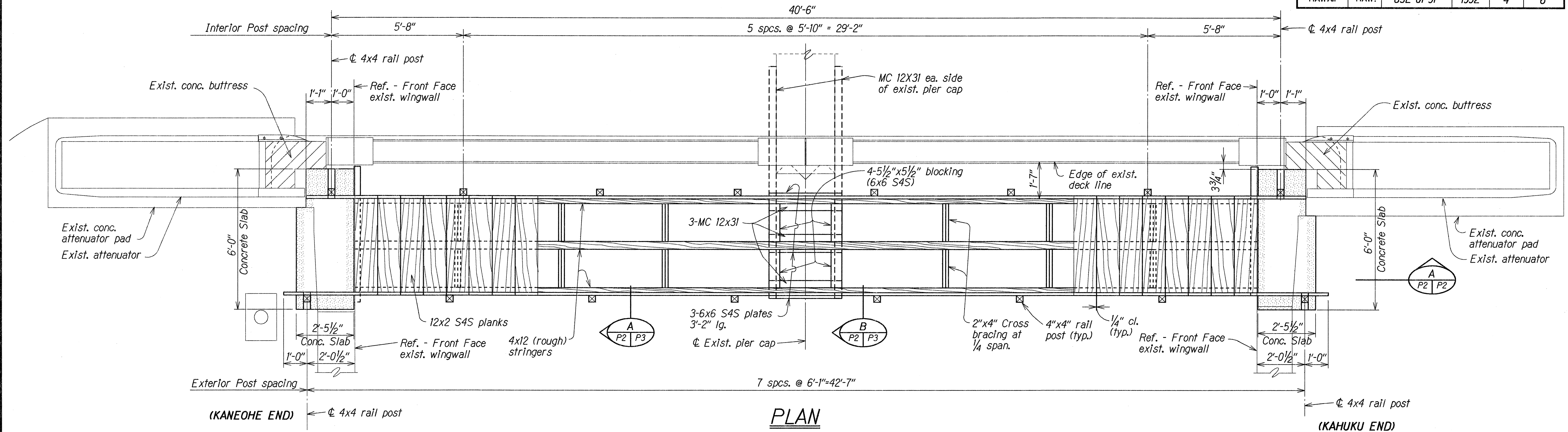
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAALAEA STREAM WALKWAY
LAYOUT PLAN, ELEVATION
GENERAL NOTES & ESTIMATED QUANTITIES
KAMEHAMEHA HIGHWAY
Project No. 83E-01-91

Scale: As Noted
SHEET No. P1 OF 4 SHEETS

Date: Oct, 1991

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83E-01-91	1992	4	6



ORIGINAL PLAN	DATE: XXX 1991
DESIGNED BY: TMM	DESIGNED BY: TMM
CHECKED BY: SA	CHECKED BY: SA
QUANTITIES BY: SA	QUANTITIES BY: SA
NO. 1001/1002	NO. 1001/1002

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAALAEA STREAM WALKWAY

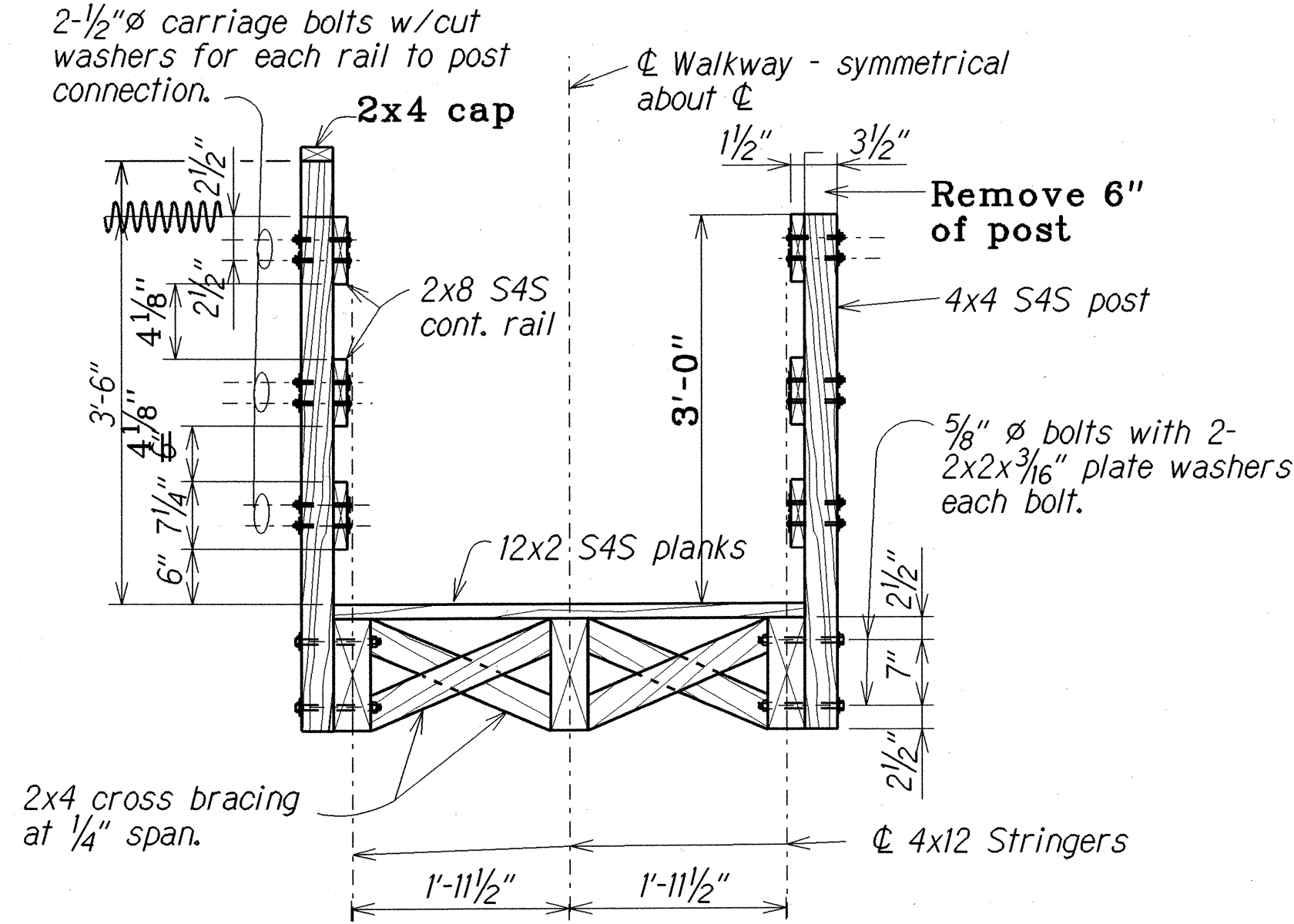
PLAN AND SECTION

KAMEHAMEHA HIGHWAY
Project No. 83E-01-91

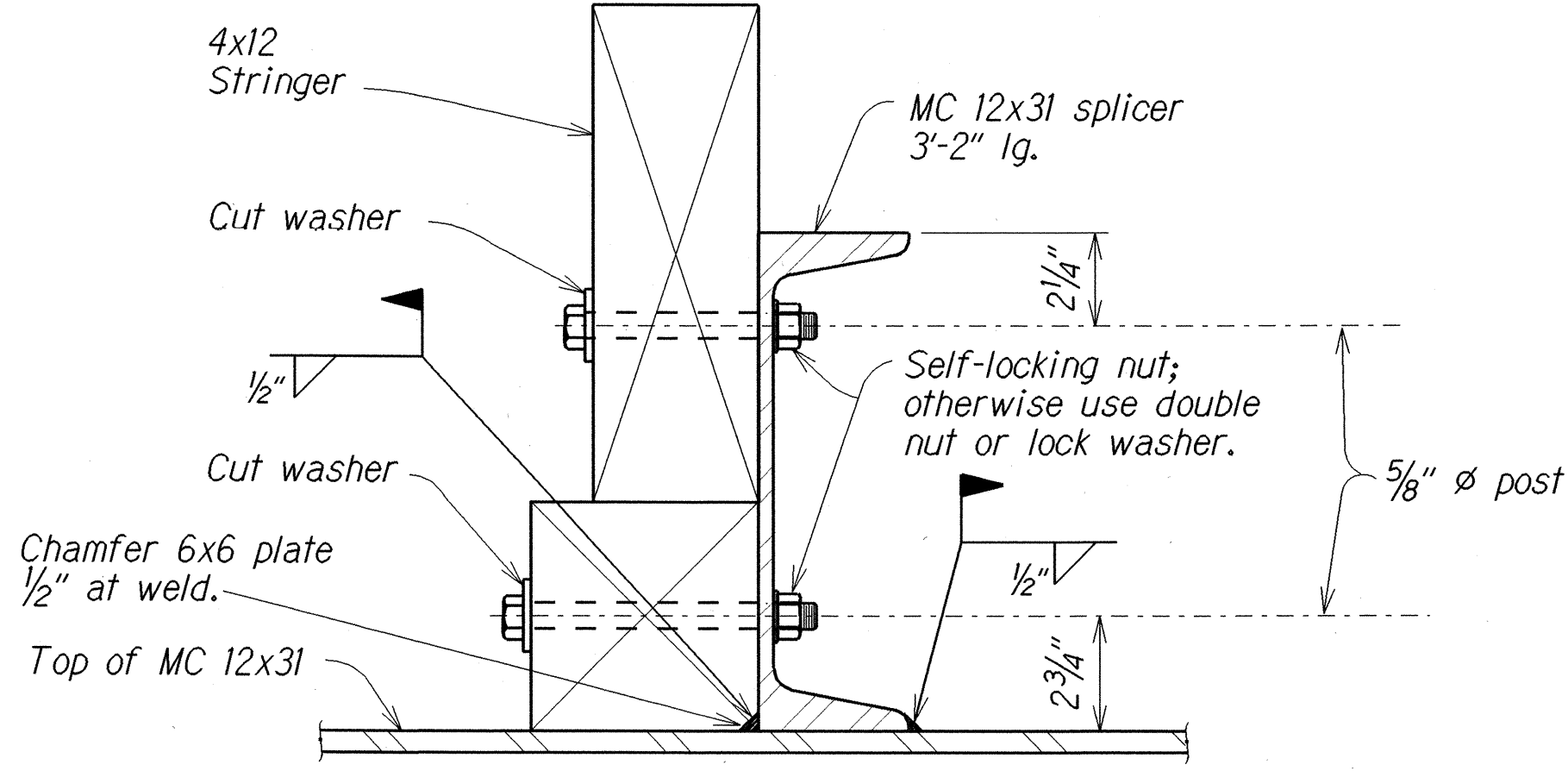
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SHEET No. P2 OF 4 SHEETS

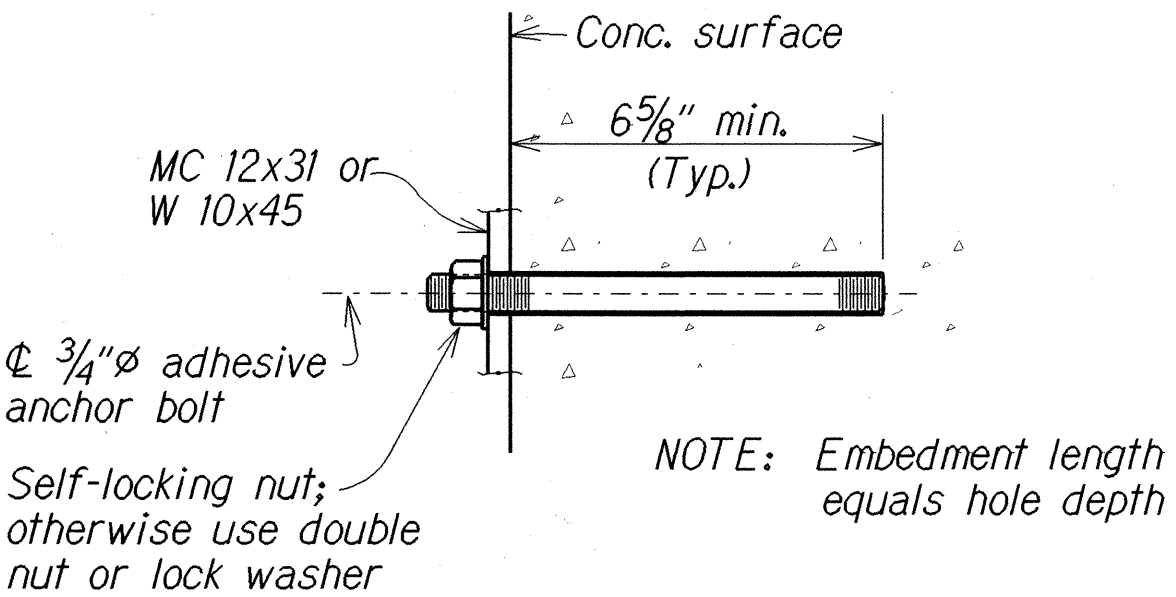
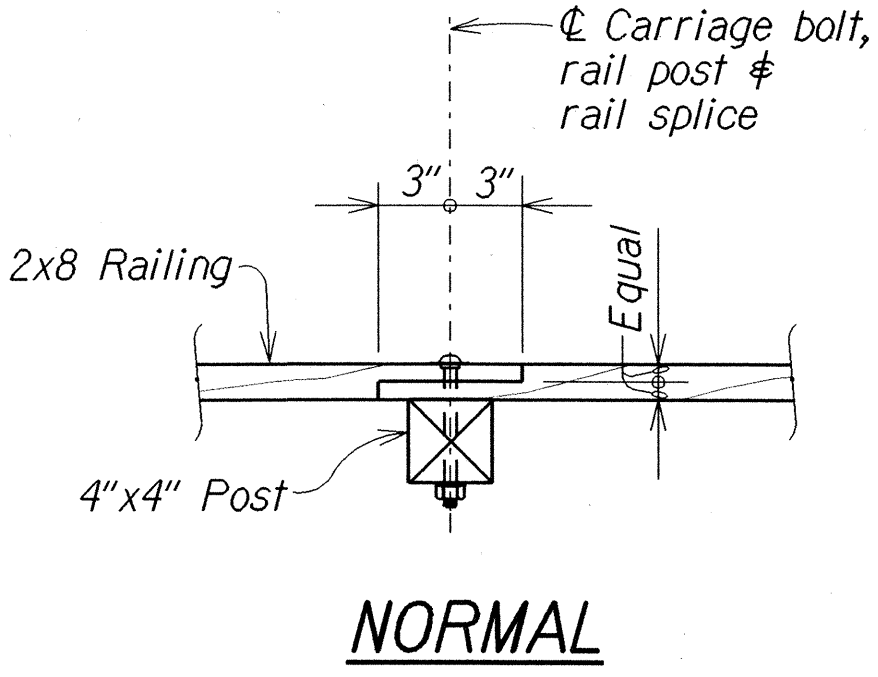
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83E-01-91	1992	5	6



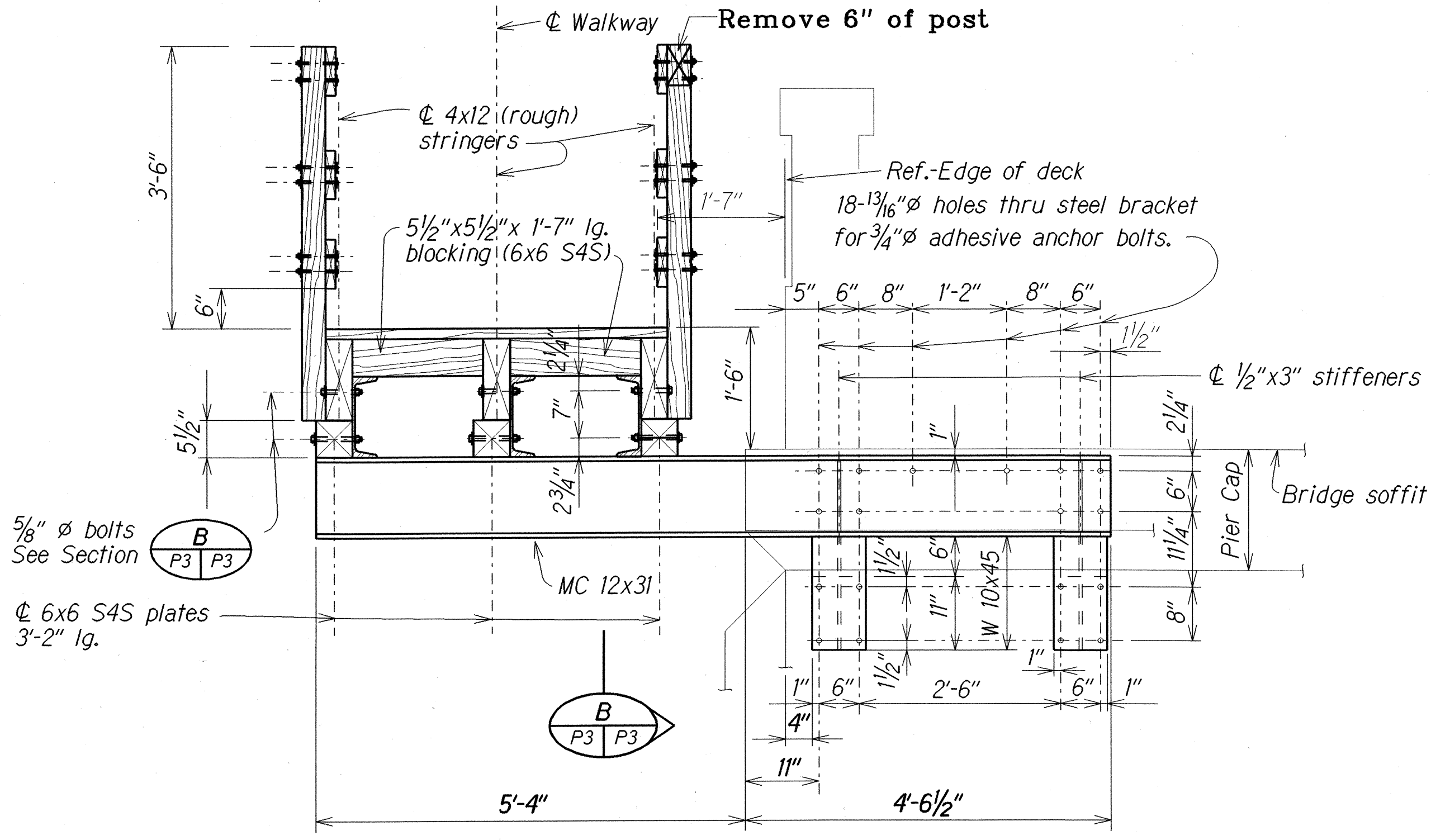
TYPICAL SECTION
 Scale: 3/4"=1'-0"



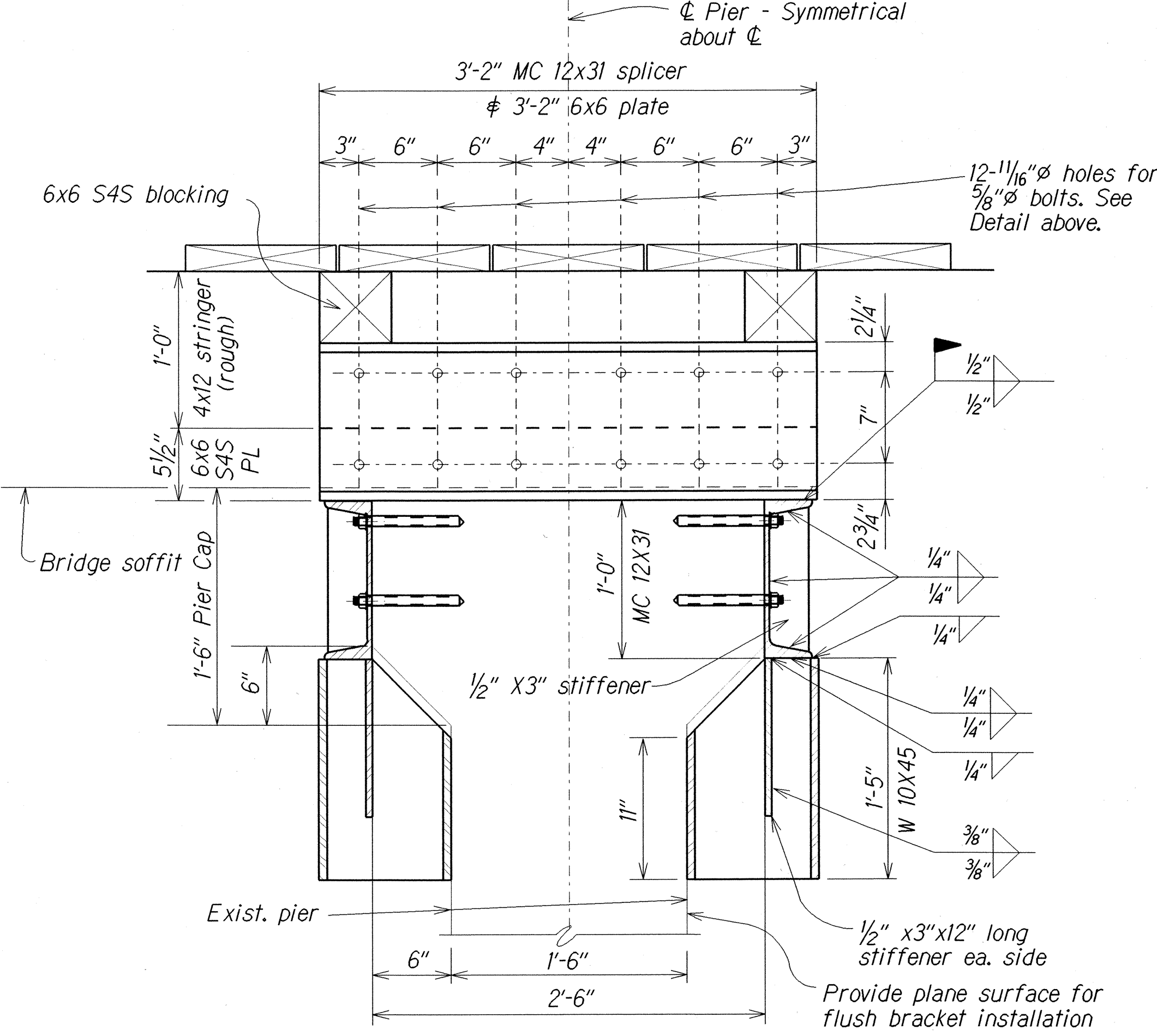
STRINGER CONNECTION DETAIL AT PIER
 Scale: 3"=1'-0"



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



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



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

LEGEND FOR AS-BUILT POSTINGS

	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

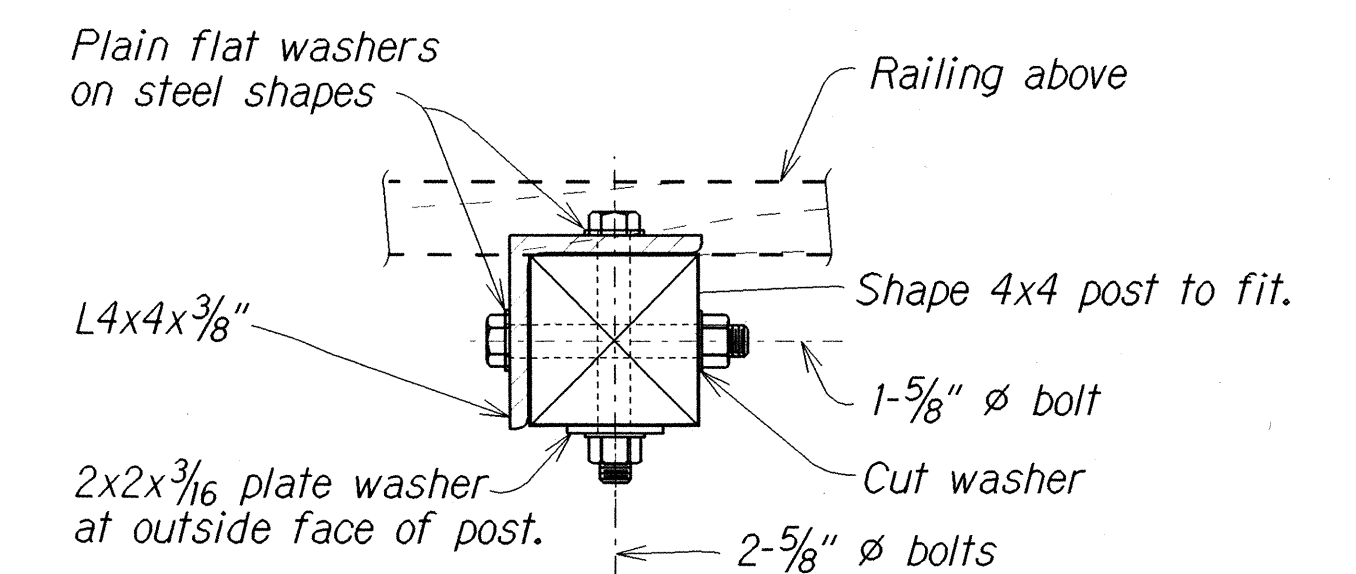
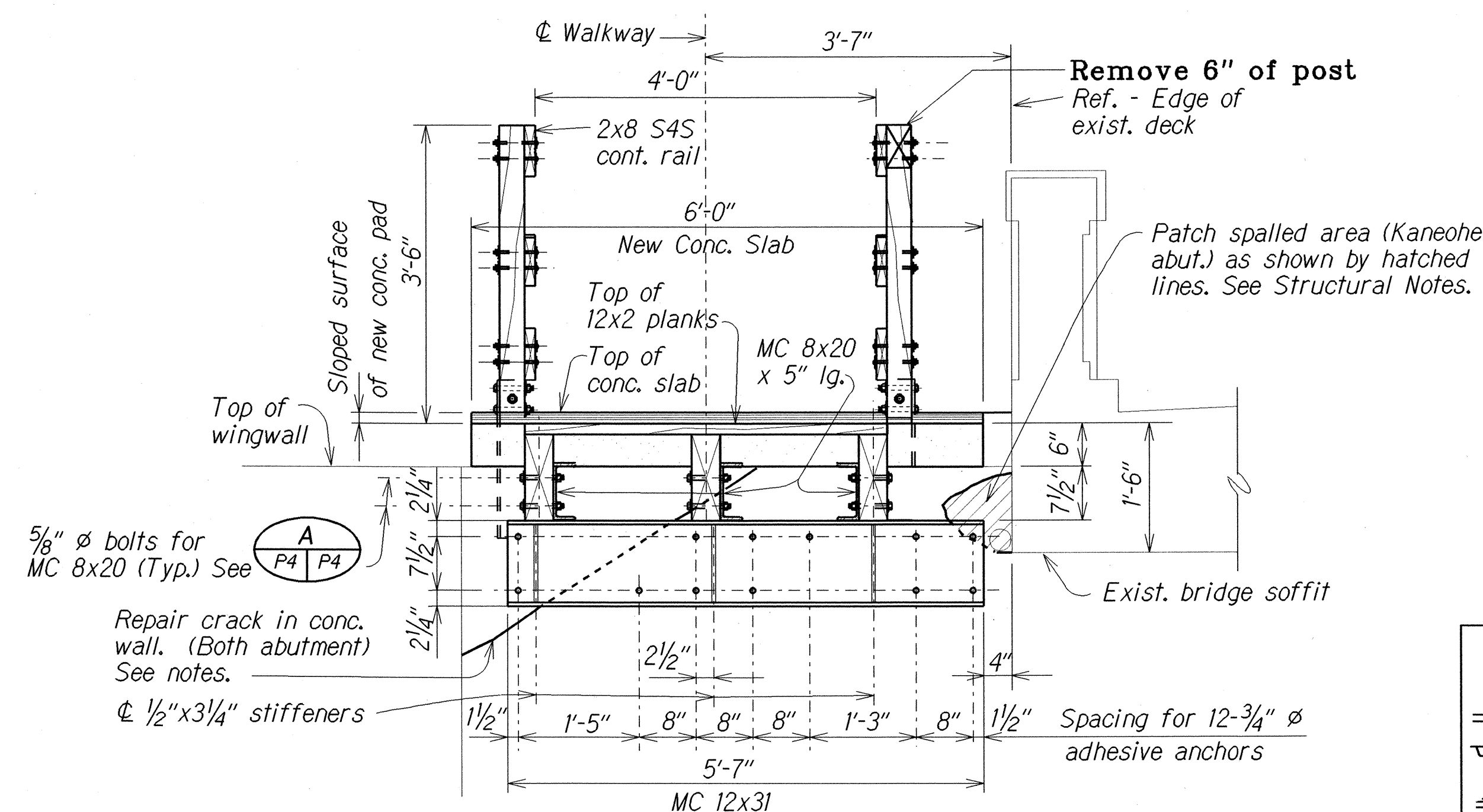
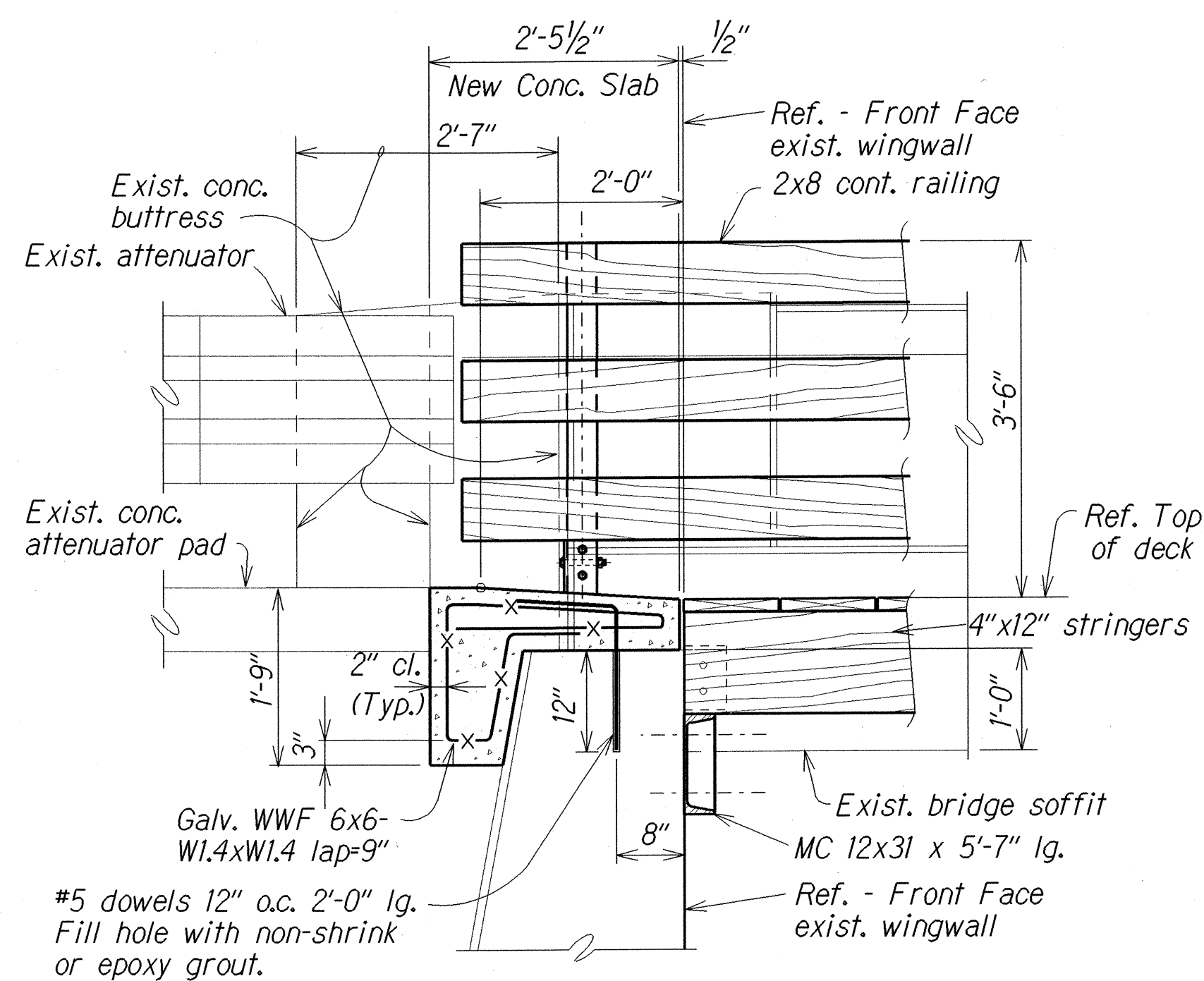
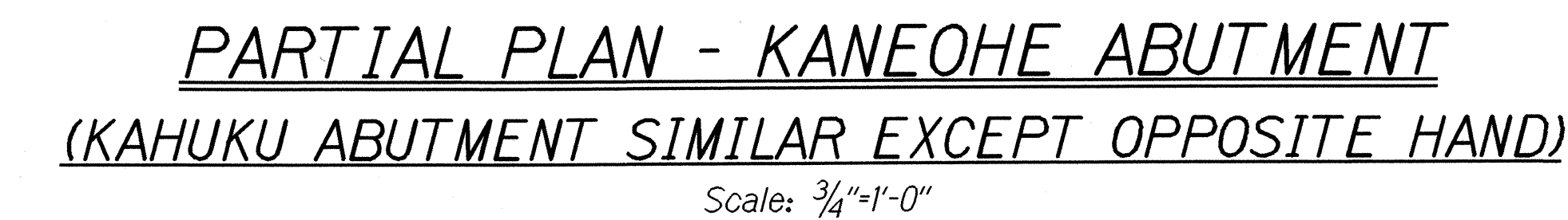
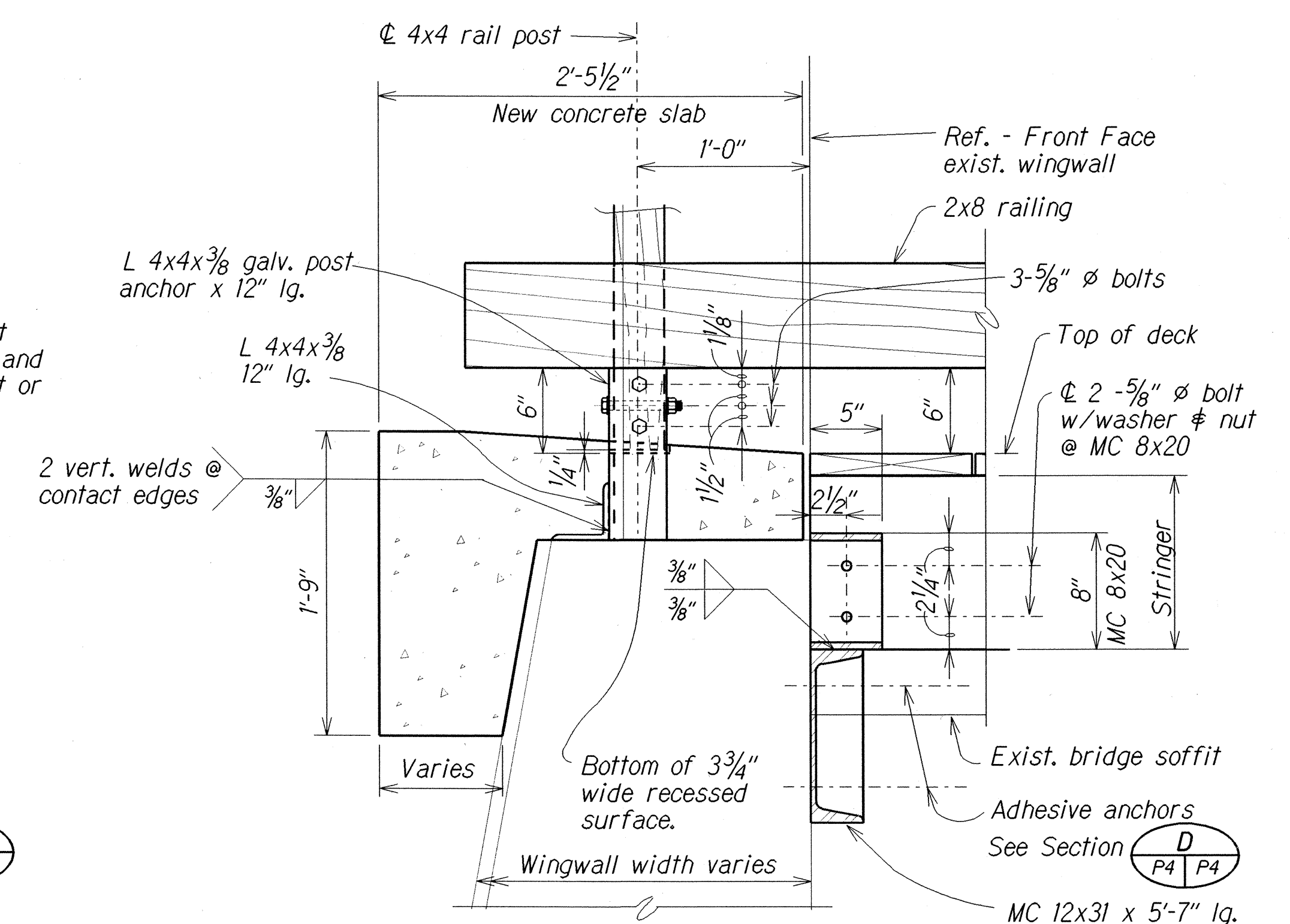
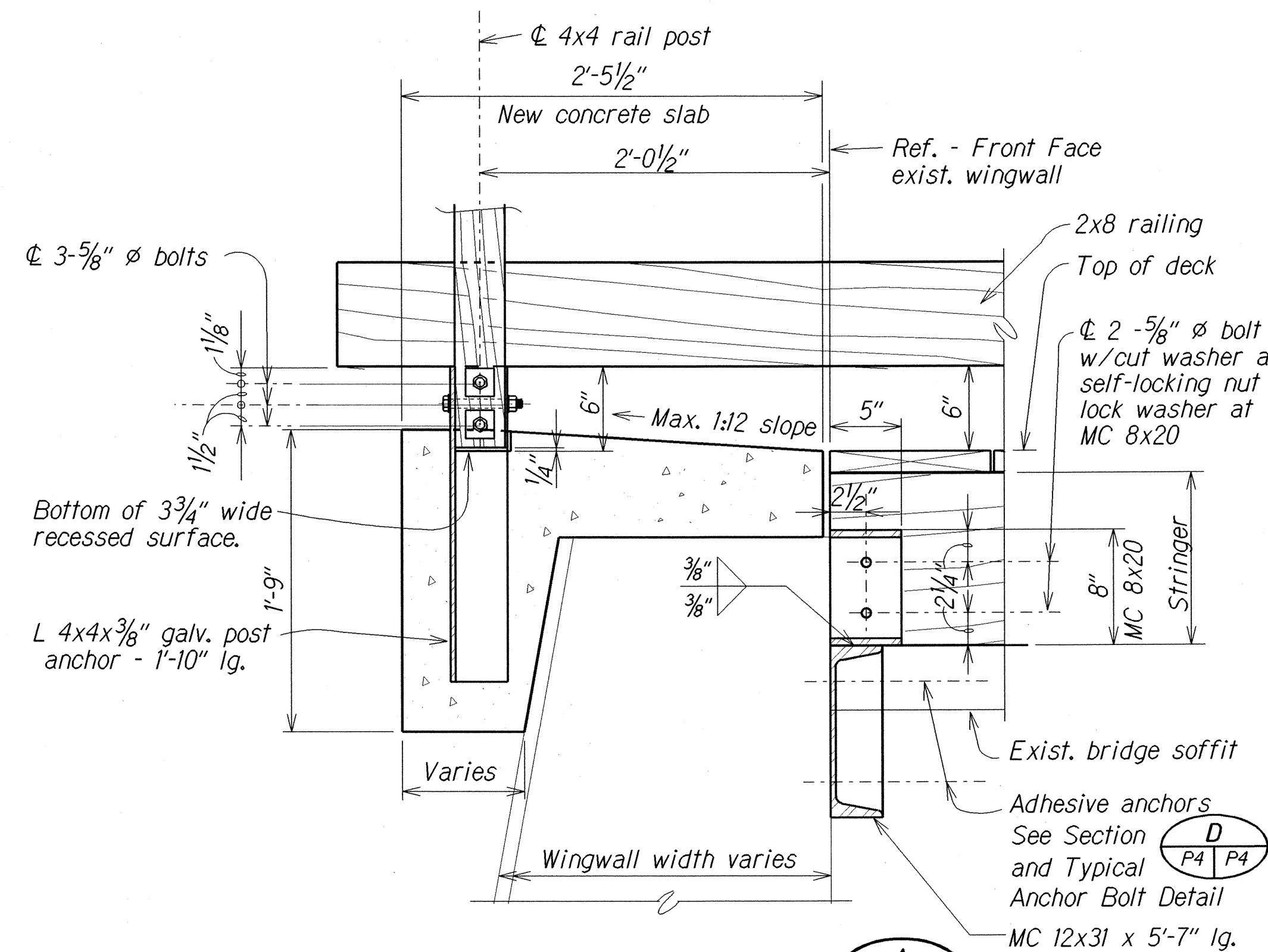
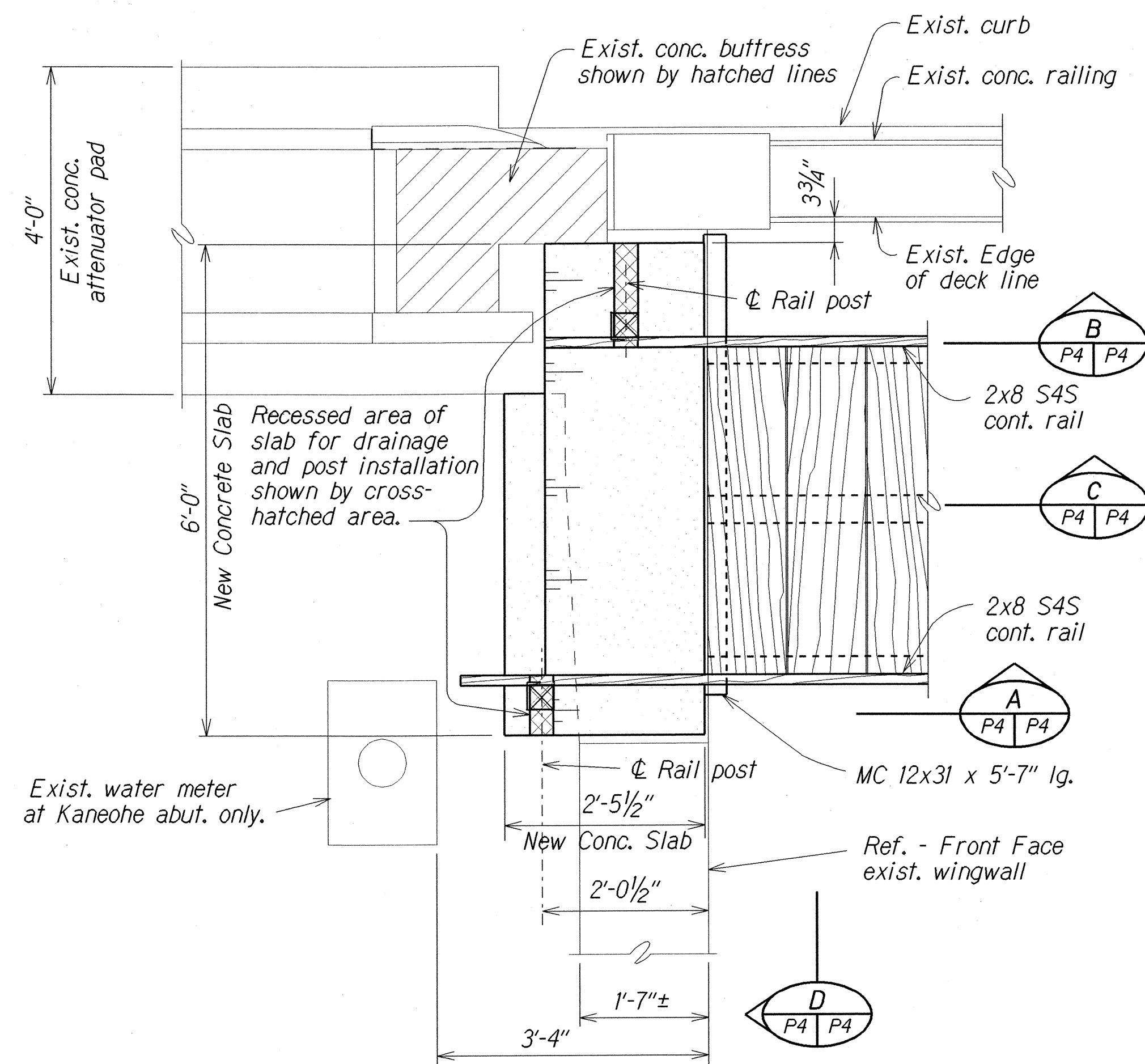
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

KAALAEA STREAM WALKWAY
PIER DETAILS, TYPICAL SECTION & MISCELLANEOUS DETAILS
 KAMEHAMEHA HIGHWAY
 Project No. 83E-01-91

Scale: As Noted Date: Oct. 1991

SURVEY PLOTTED BY	DATE	XXX 1991
DRAWN BY	TKM	XXX 1991
DESIGNED BY	SA	XXX 1991
CHECKED BY	SA	XXX 1991
ORIGINAL PLAN	FILE	QUANTITIES BY
	SA	SA
	SA	SA

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HAWAII	HAW.	83E-01-91	1992	6	6



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAALAEA STREAM WALKWAY
WALKWAY CONNECTION DETAILS
AT KANEHOE AND KAHUKU ABUTMENTS
KAHEHAMEHA HIGHWAY
Project No. 83E-01-91

Scale: As Noted Date: Oct. 1991

SHEET No. P4 OF 4 SHEETS