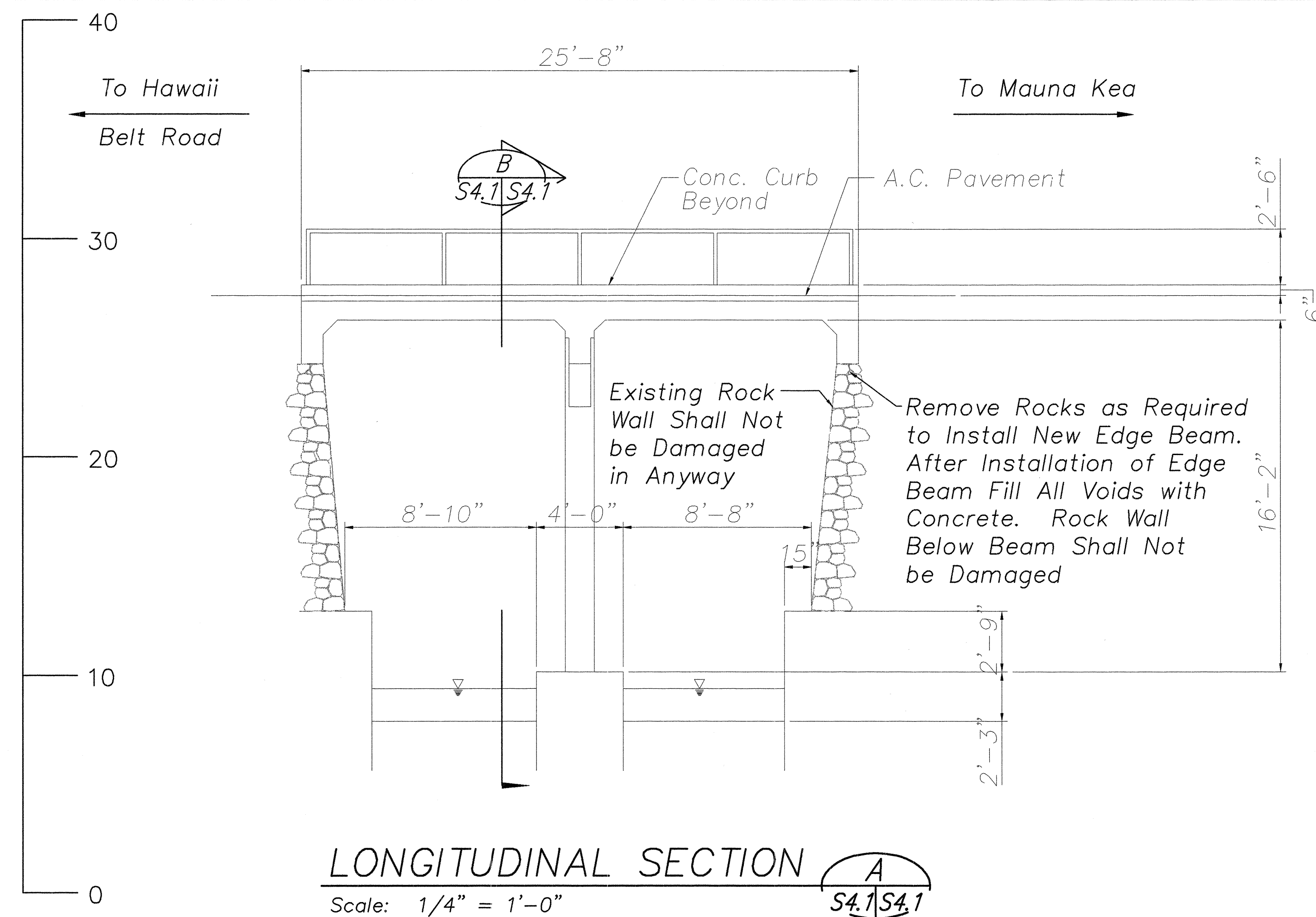
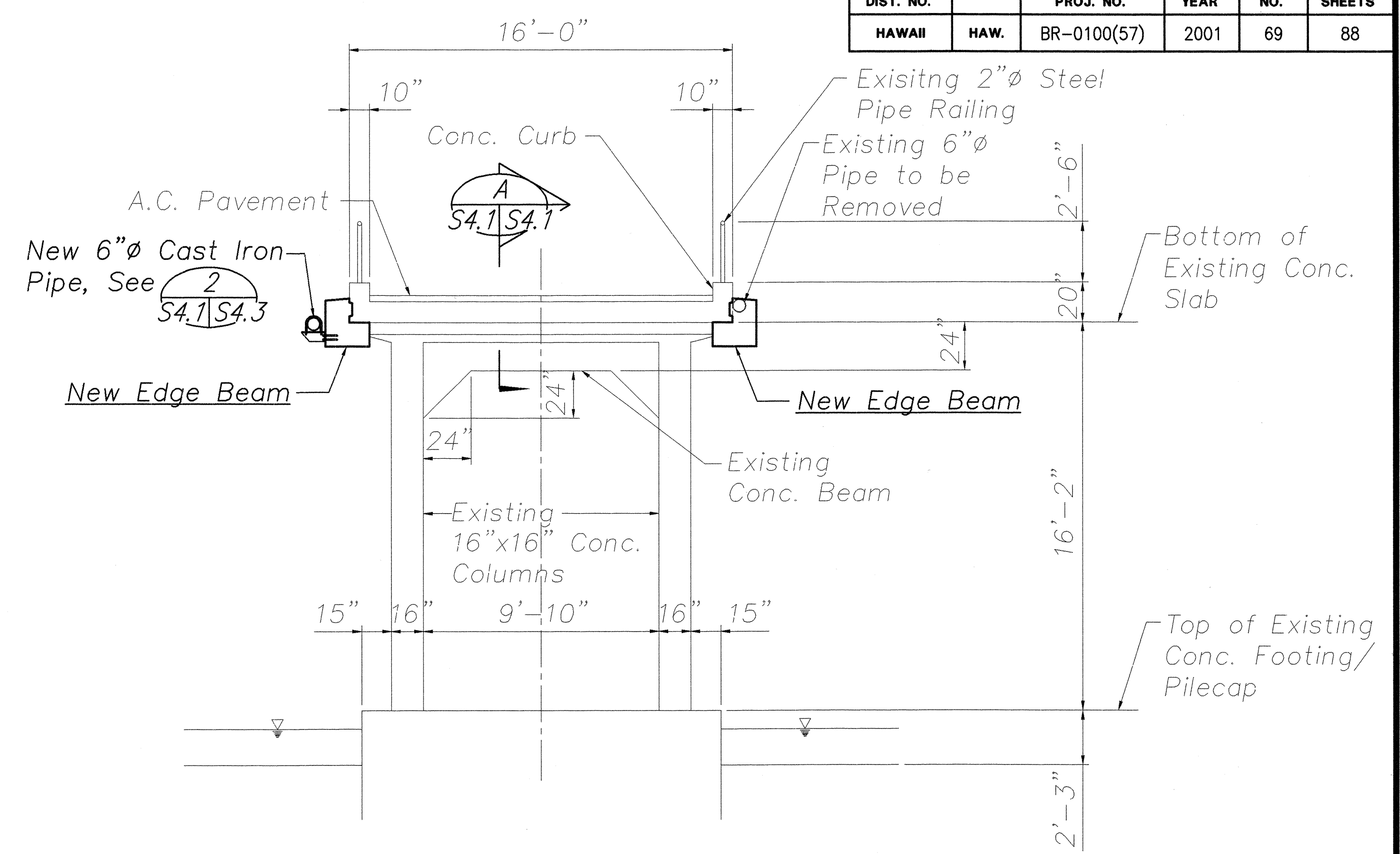


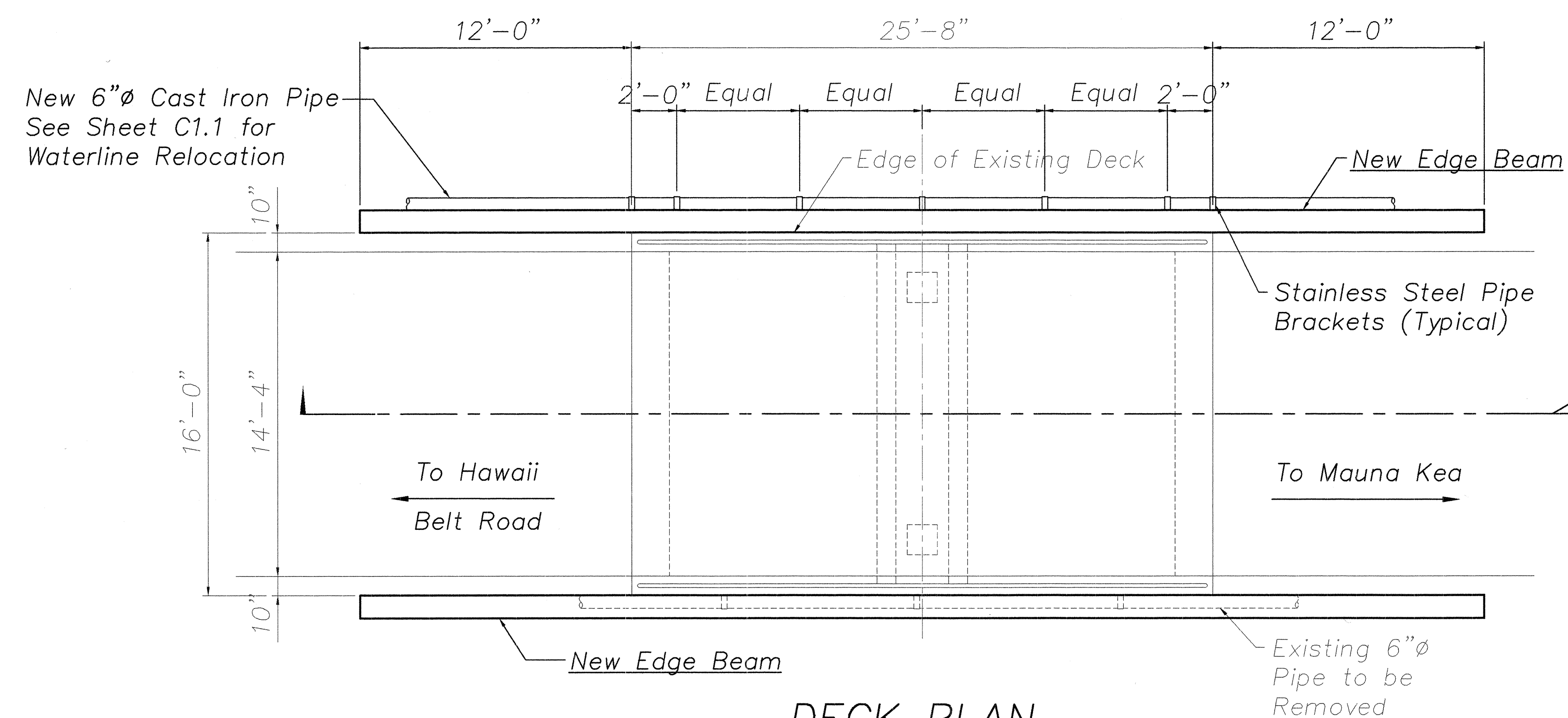
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	69	88



LONGITUDINAL SECTION A
Scale: 1/4" = 1'-0"
S4.1/S4.1



CROSS SECTION B
Scale: 1/4" = 1'-0"
S4.1/S4.1

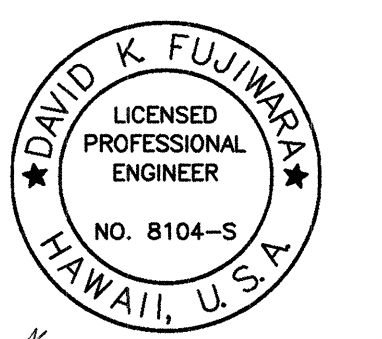


DECK PLAN
Scale: 1/4" = 1'-0"

Note: Relocation of Guardrail, Guardrail Post, and Object Markers Shall be Considered Incidental to 624-Water System.

CONSTRUCTION SEQUENCE

1. Construct New Edge Beam on South Side of Bridge
2. Install New Pipe in Shoulder, Roadway and On Bridge. Pipe On Bridge Shall Not be Installed Until the New South Side Edge Beam has Attained a Concrete Strength of 3,000 PSI or 7 Days, Whichever Occurs Later.
3. Connect New Pipe to Existing Pipe. New Pipe Shall Not be Tied Into Existing Until a Minimum of 14 Days After the Edge Beam on the South Side Has Been Poured.
4. Remove Existing Pipe That is No Longer in Use On and Off the Bridge.
5. Construct New Edge Beam on North Side of Bridge.

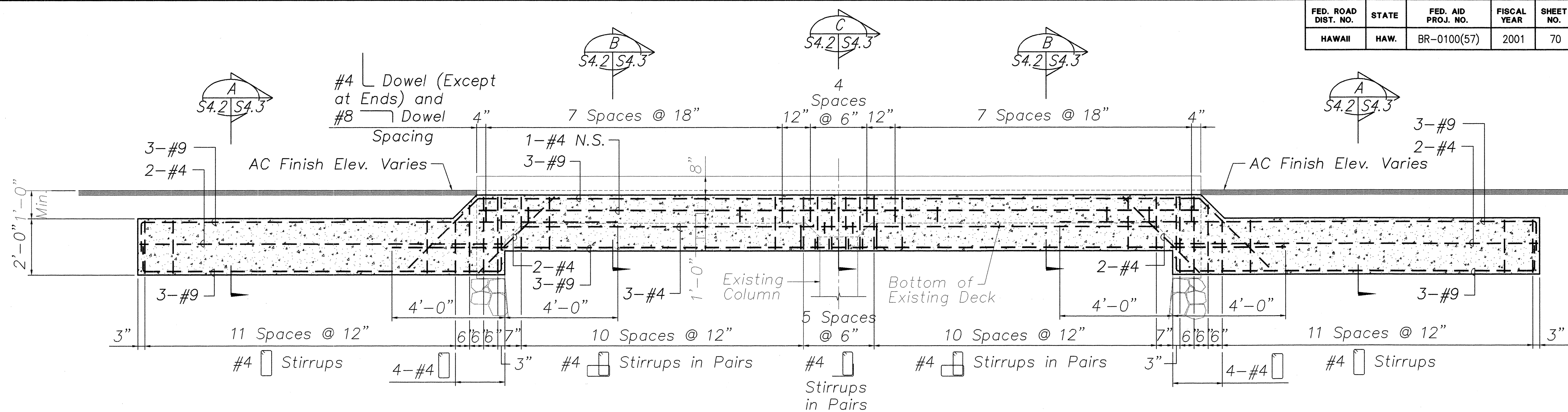


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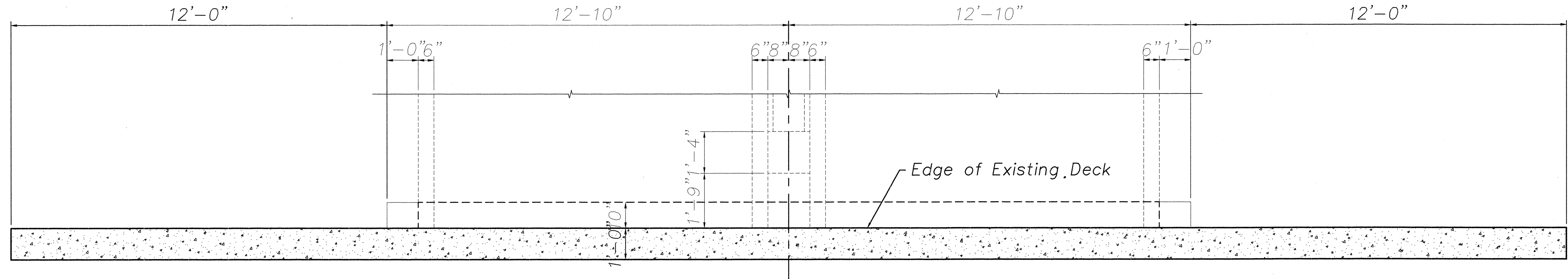
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3
DECK PLAN AND SECTIONS
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEKEO, HAWAII - UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)
SCALE: AS NOTED
DATE: January 2001

Approved: *Sam S. Kawasaka* Manager DWS
Date: 04/05/01

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	70	88



ELEVATION – EDGE BEAM
Scale: 1/2" = 1'-0"

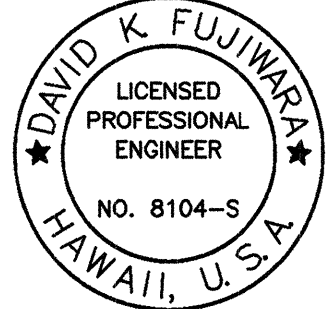


PLAN – EDGE BEAM
Scale: 1/2" = 1'-0"

ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

PAHEEHÉE MAUKA BRIDGE NO. 3 RETROFITS				
ITEM	LOCATION	QUANTITY		REFERENCE DRAWINGS
		PER LOC.	TOTAL	
Edge Beam	Railing Curb	1	2	S4.1, S4.3
6"Ø Cast Iron Pipe	Edge Beam	1	1	S4.1, S4.3

Approved: *Ray S. Kawasaka* 04/05/01
Manager DWS Date

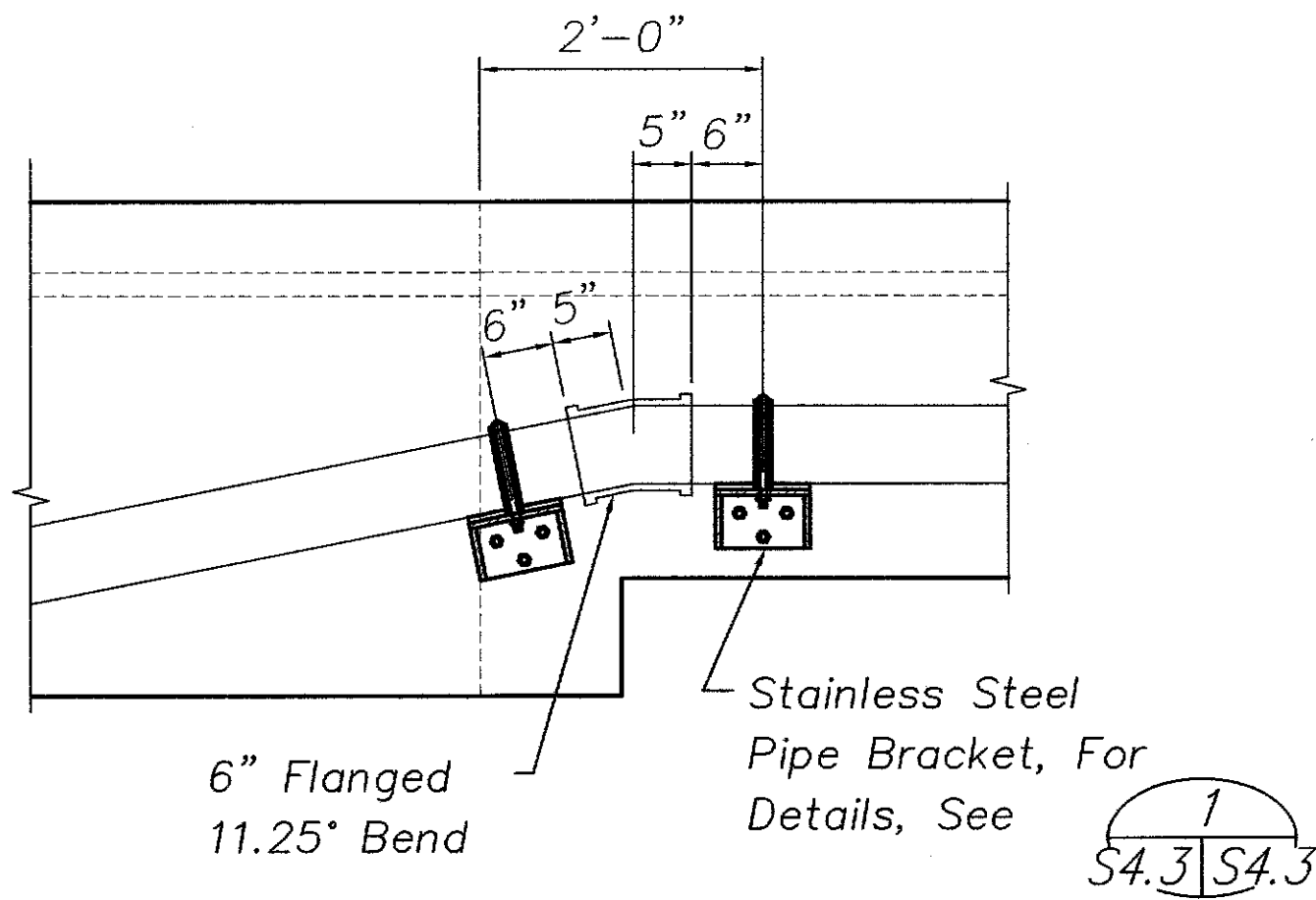
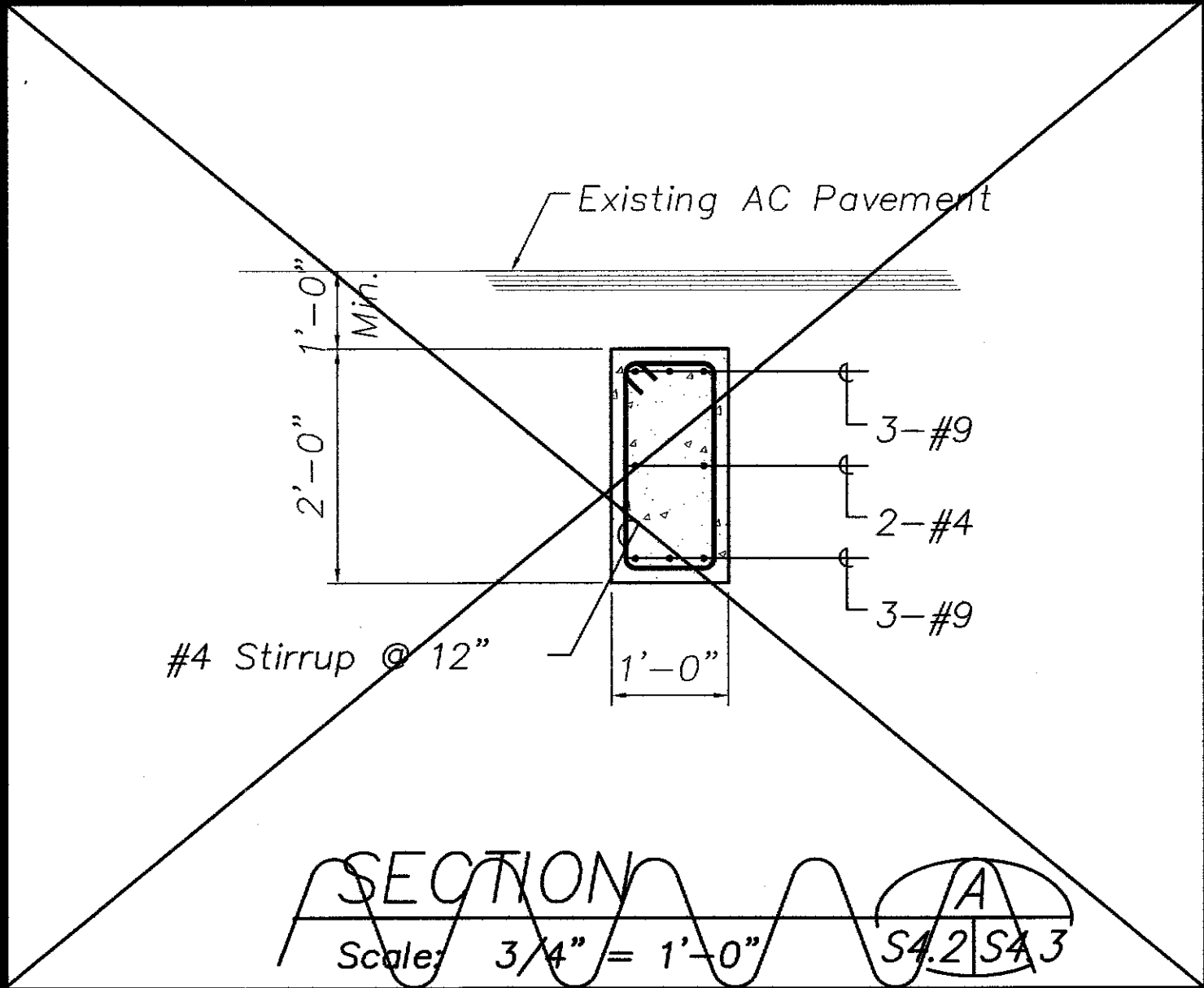


David K. Fujiwara
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHÉE MAUKA BRIDGE NO. 3
EDGE BEAM
PLAN AND ELEVATION
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEKEO, HAWAII – UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)
SCALE: AS NOTED
DATE: January 2001

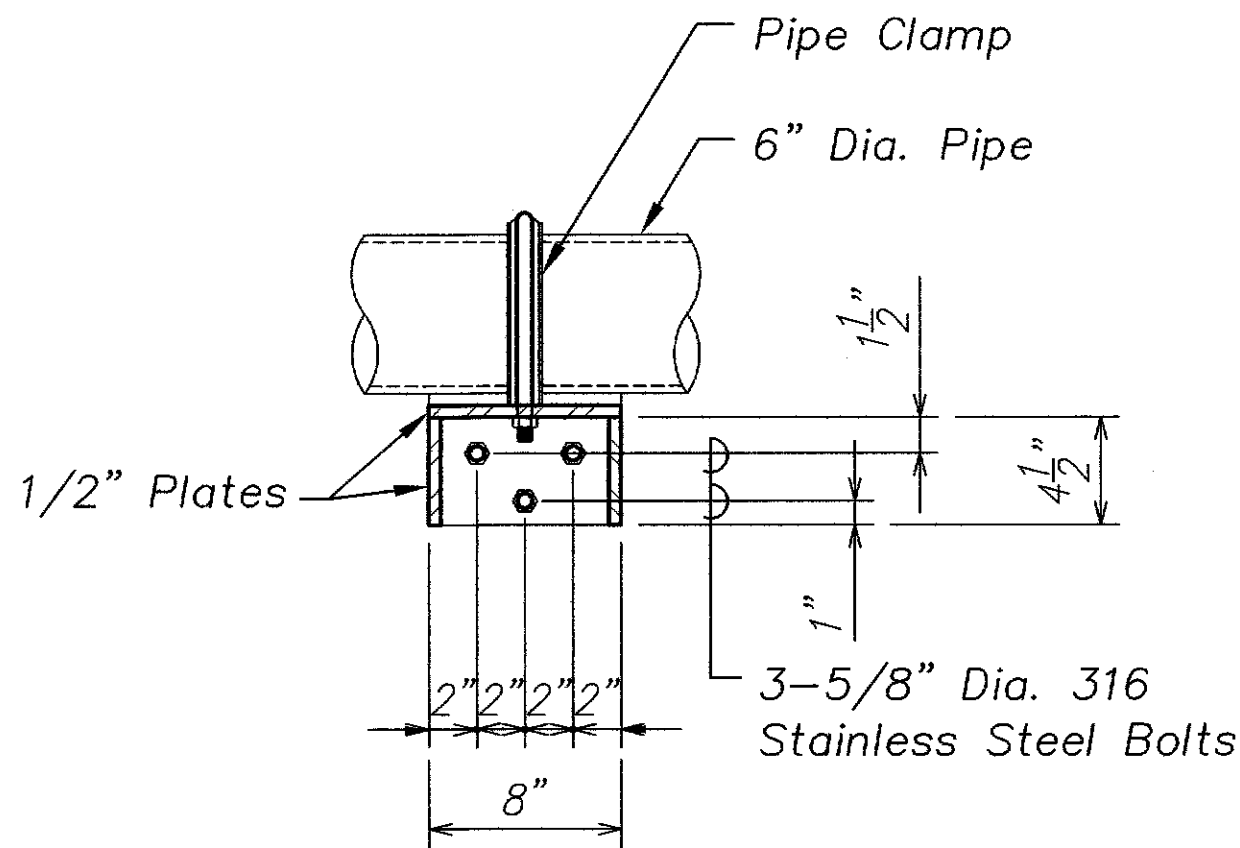
SHEET No. S4.2 OF 76 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	71	88



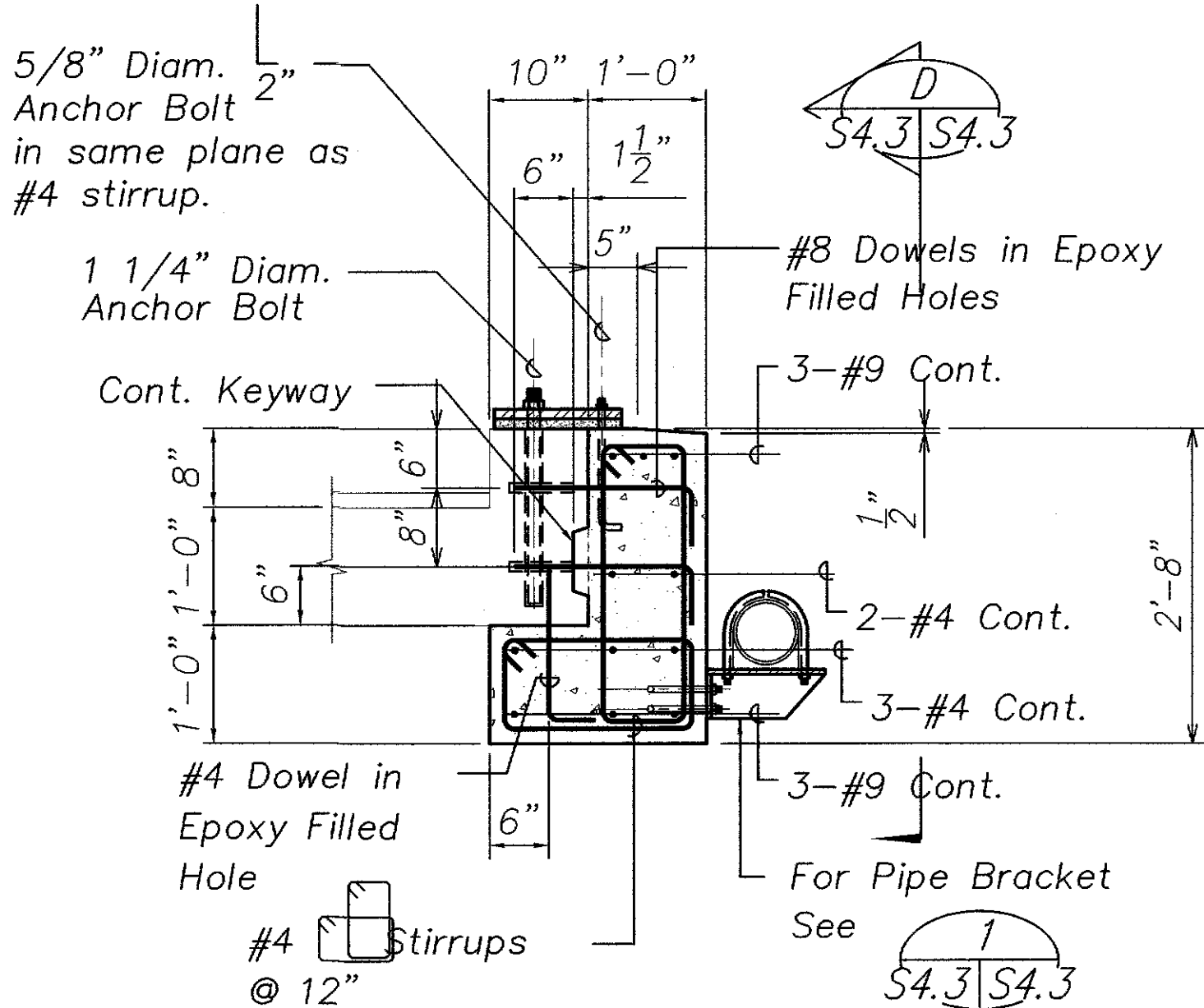
SECTION AT ENDS OF BRIDGE

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



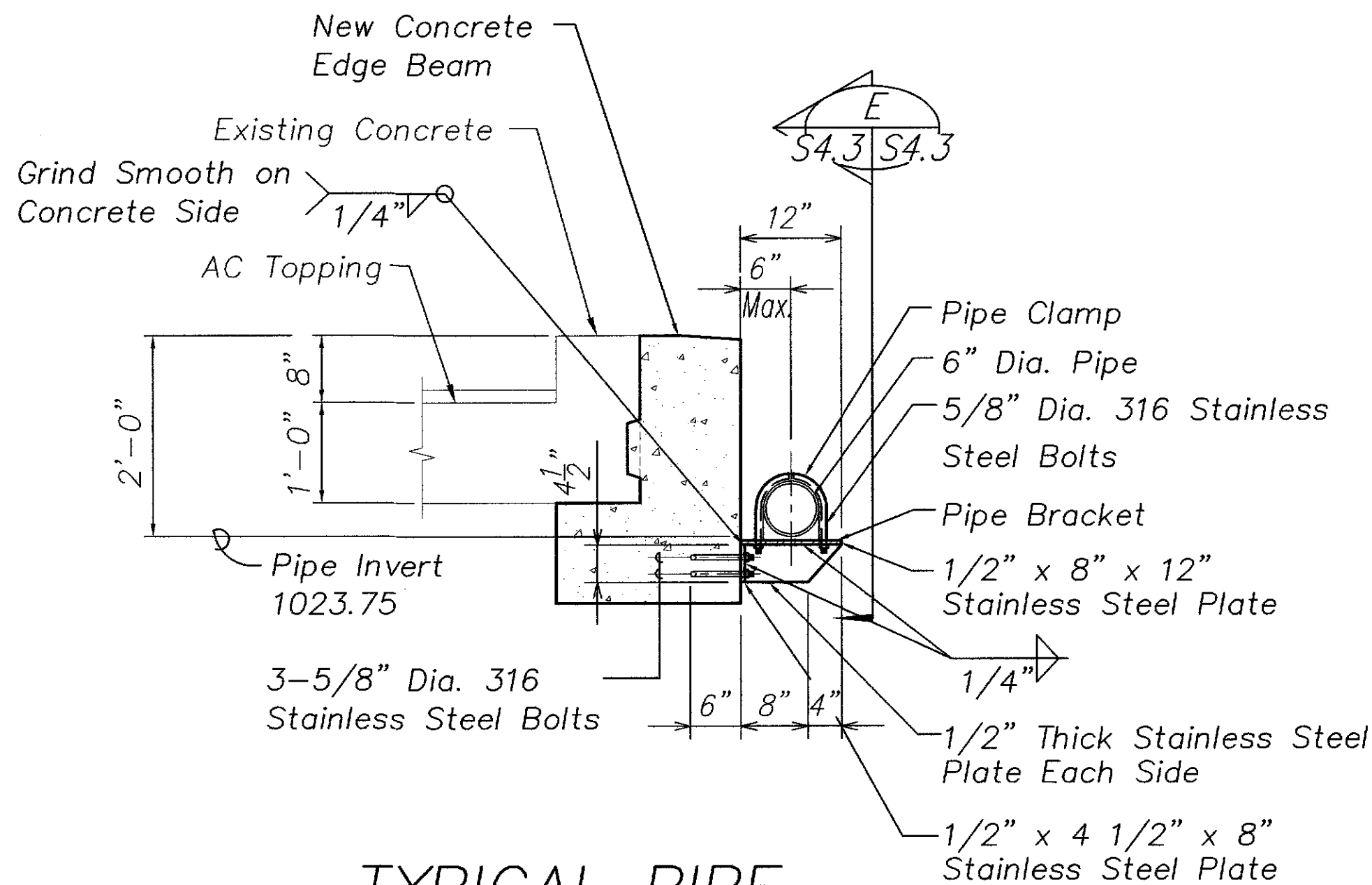
PIPE BRACKET DETAIL

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



SECTION B

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

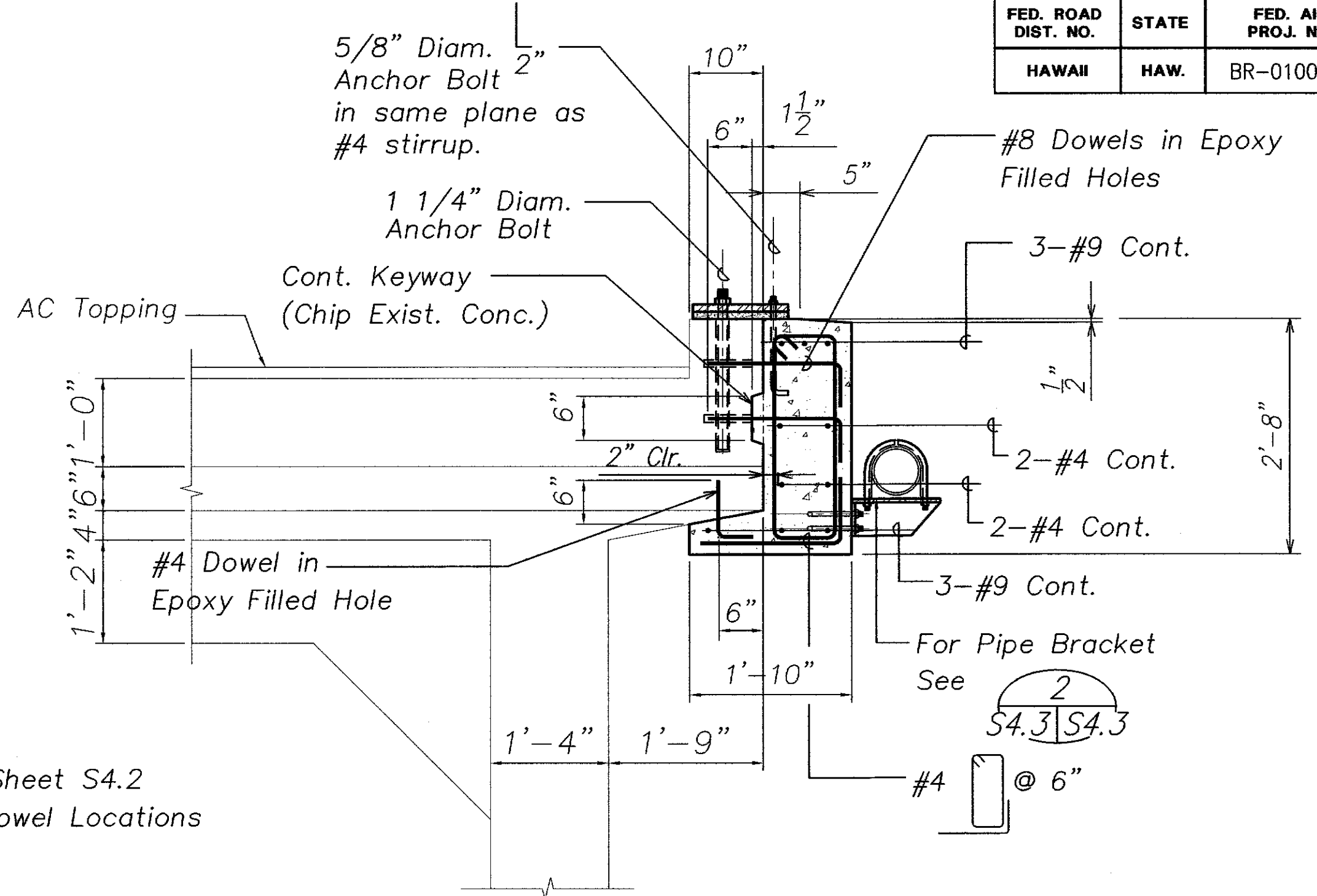


TYPICAL PIPE CONNECTION DETAIL 1

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

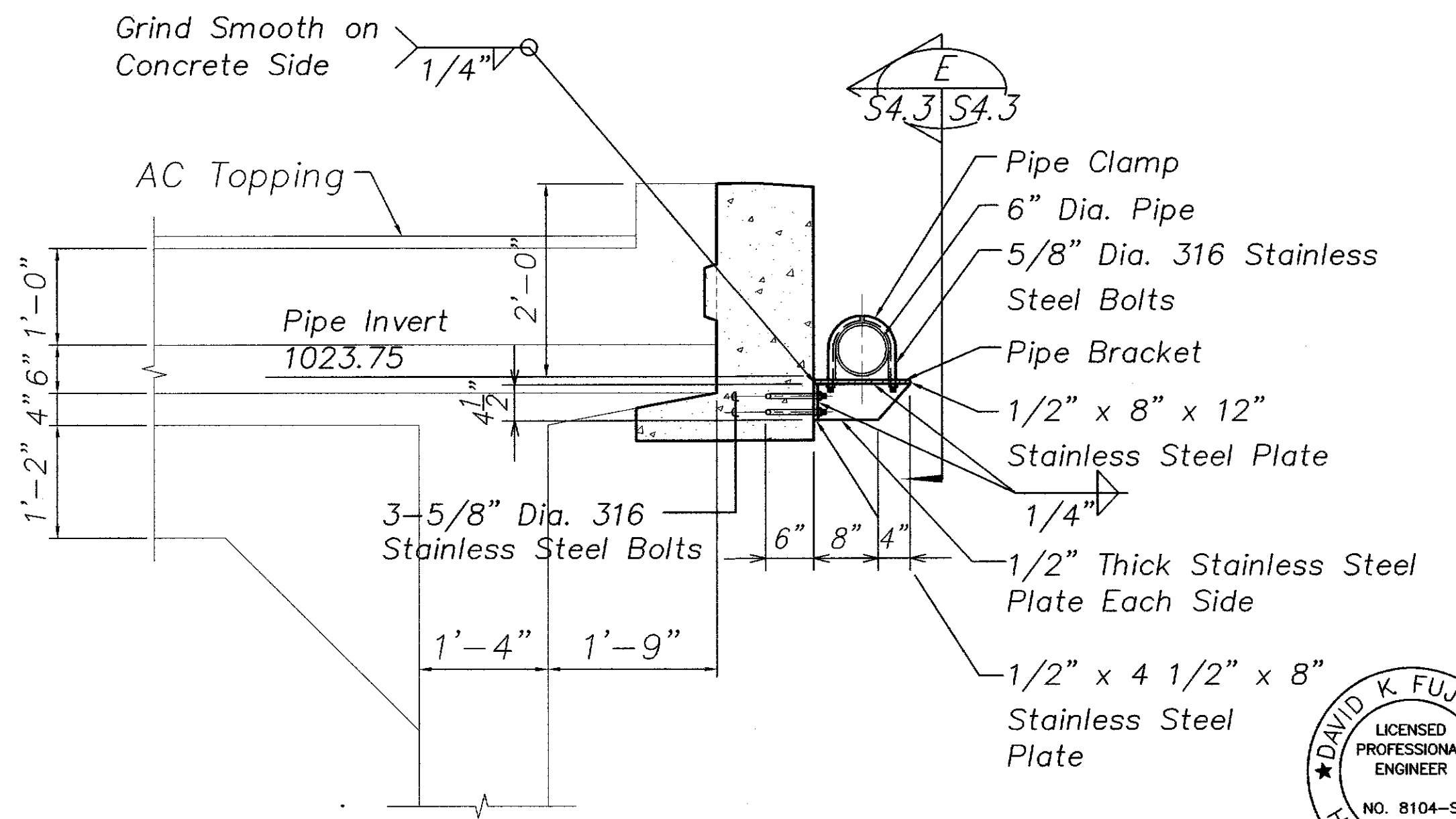
Notes:

1. Pipe Brackets and its Connections Shall be 316 Stainless Steel Plates, Bolts, Nuts and Washers.
2. Pipe Clamp Shall be Installed According to Manufacturer's Recommendation.
3. Epoxied Dowels Shall be Installed According to Manufacturer's Recommendation.
4. The Cost of the Bracket, Pipe Clamps, and All Incidentals Shall be Considered Incidental to the Various Contract Items.
5. Six Inch Diameter Pipe Shall be Wrapped with 1-Layer of 30-pound Roofing Felt at Bracket Locations. Felt Shall be Secured with an Adhesive Approved by the Engineer.



SECTION C

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



PIPE CONNECTION DETAIL 2

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

LEGEND FOR AS-BUILT POSTINGS

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3

SECTIONS

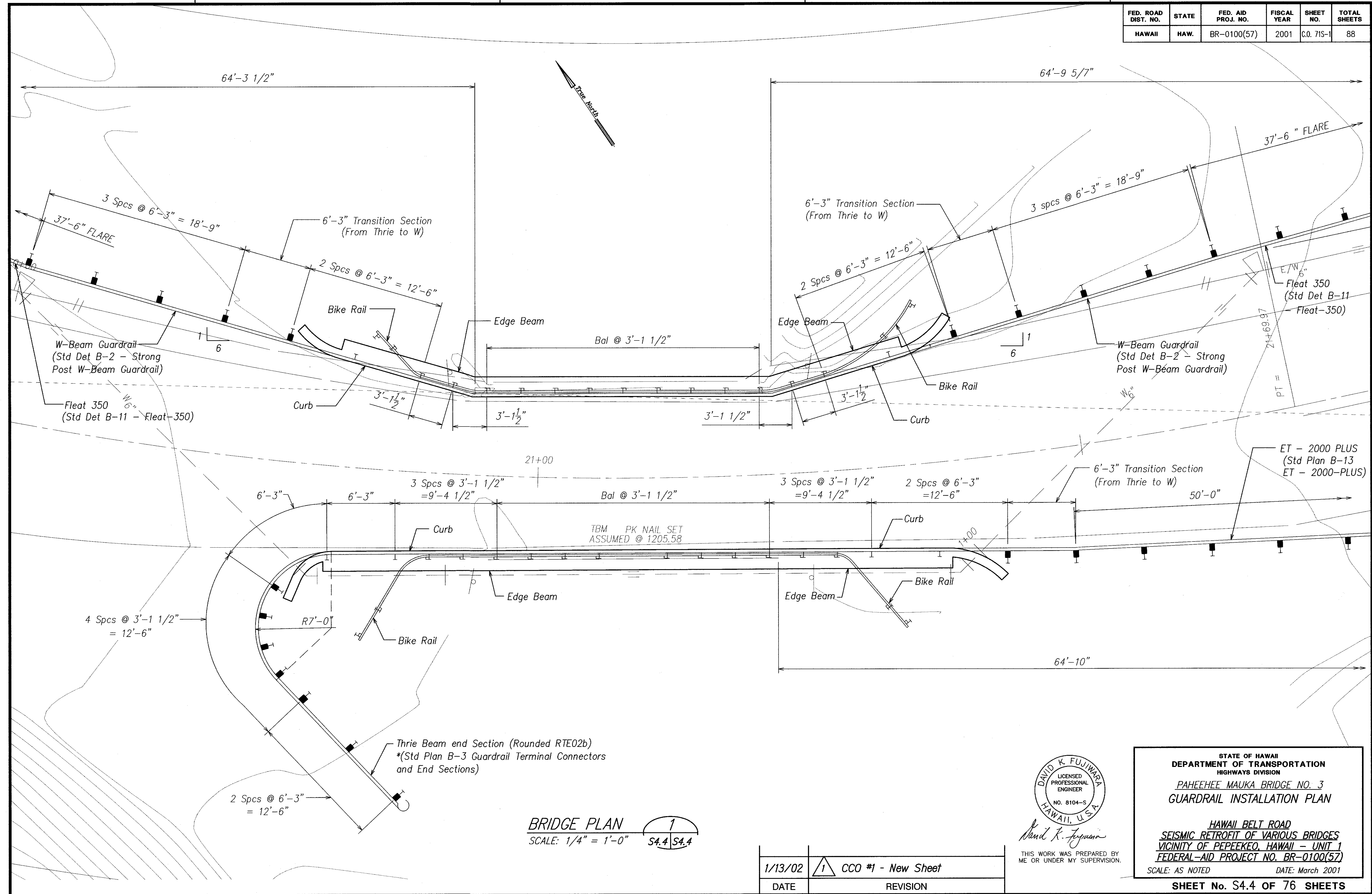
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEKEO, HAWAII - UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)

SCALE: AS NOTED DATE: March 2001

SHEET No. S4.3 OF 76 SHEETS

"AS-BUILT"

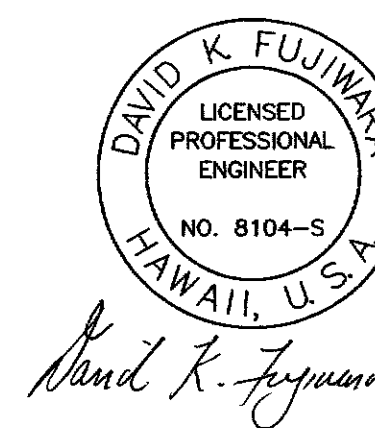
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	C.O. 71S-1	88



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

BRIDGE PLAN
SCALE: 1/4" = 1'-0"

1/13/02	1	CCO #1 - New Sheet
DATE		REVISION

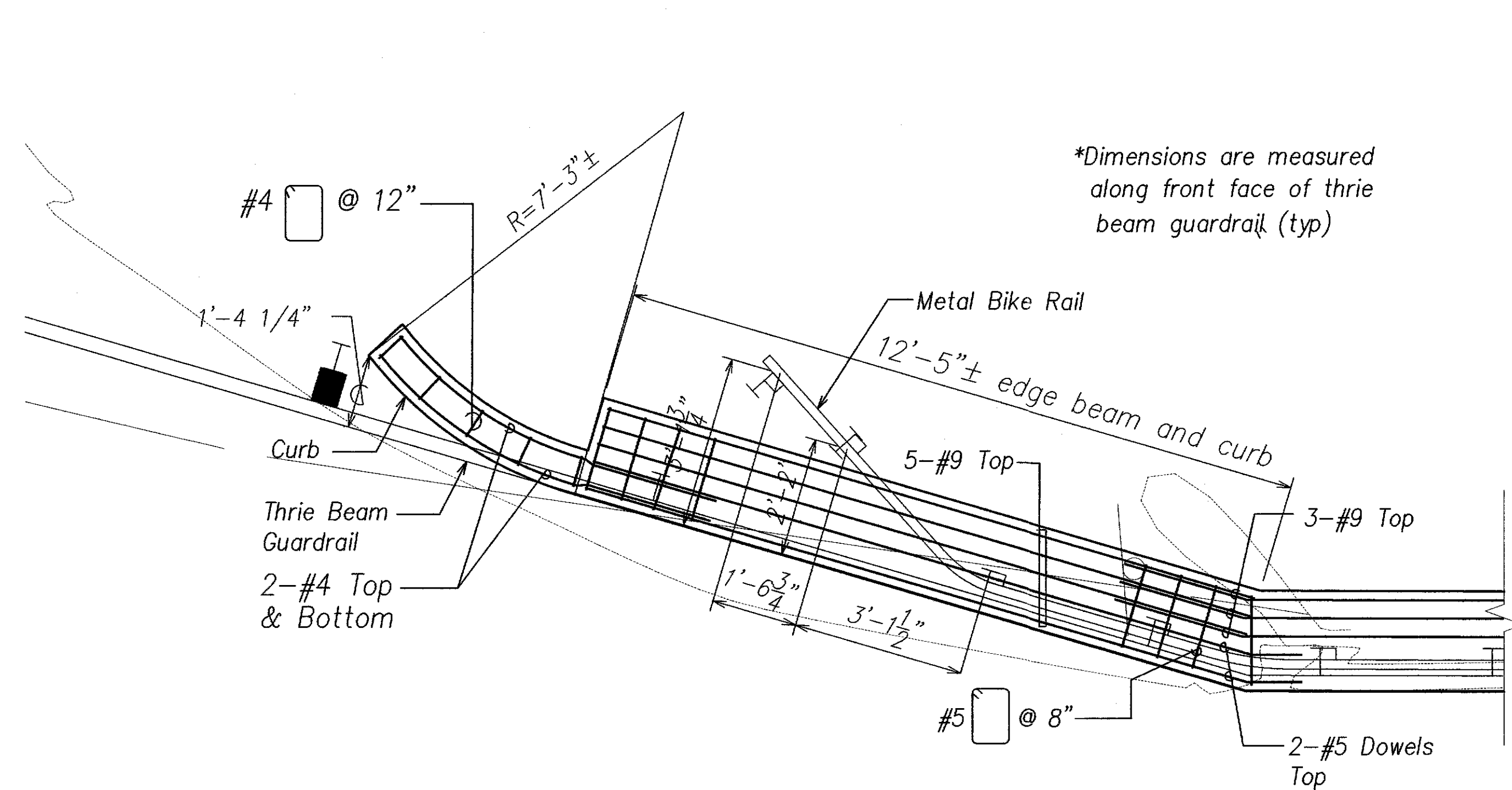


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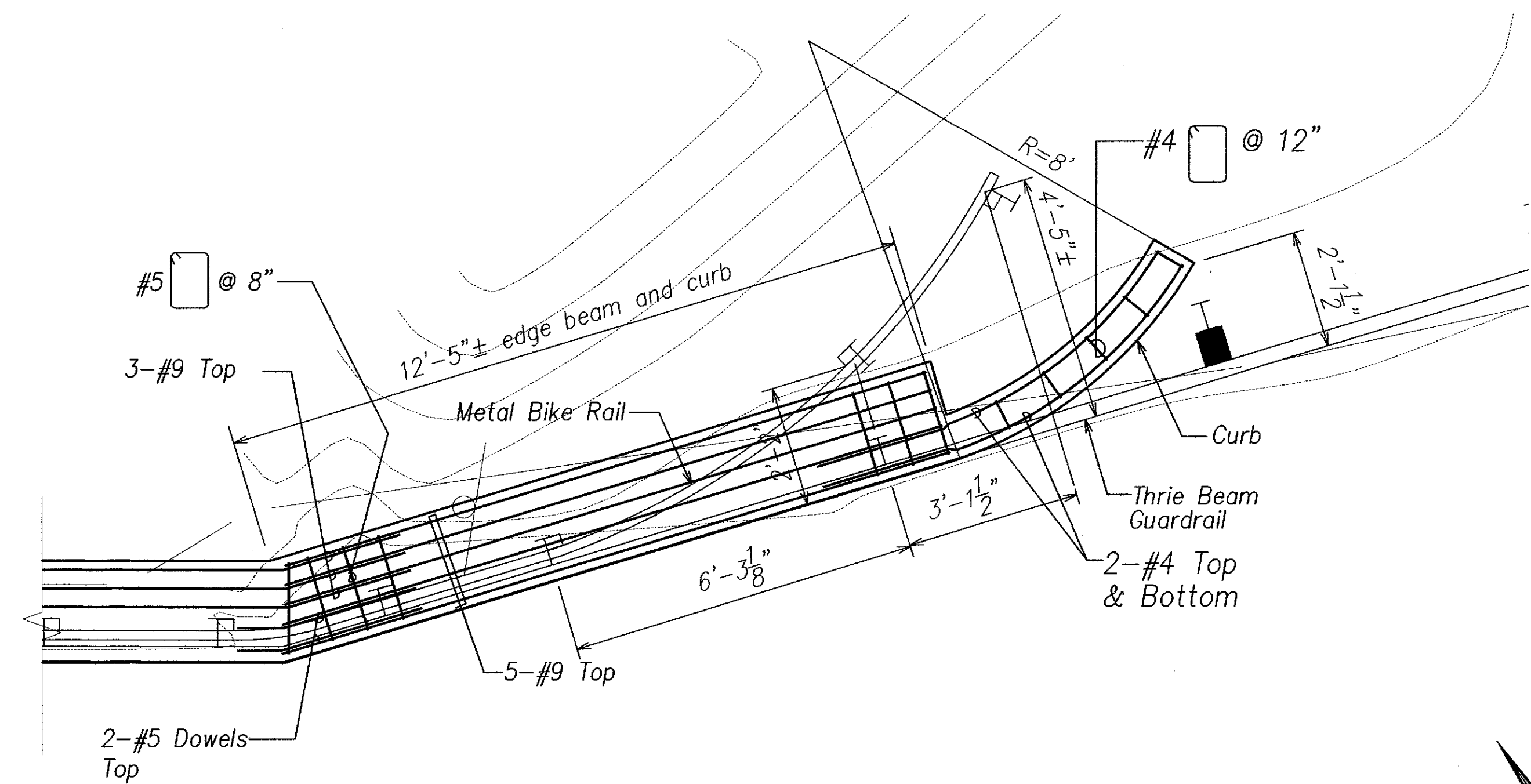
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3 GUARDRAIL INSTALLATION PLAN
HAWAII BELT ROAD SEISMIC RETROFIT OF VARIOUS BRIDGES VICINITY OF PEPEEKEO, HAWAII - UNIT 1 FEDERAL-AID PROJECT NO. BR-0100(57)
SCALE: AS NOTED DATE: March 2001
SHEET No. S4.4 OF 76 SHEETS

C.O. 71S-1

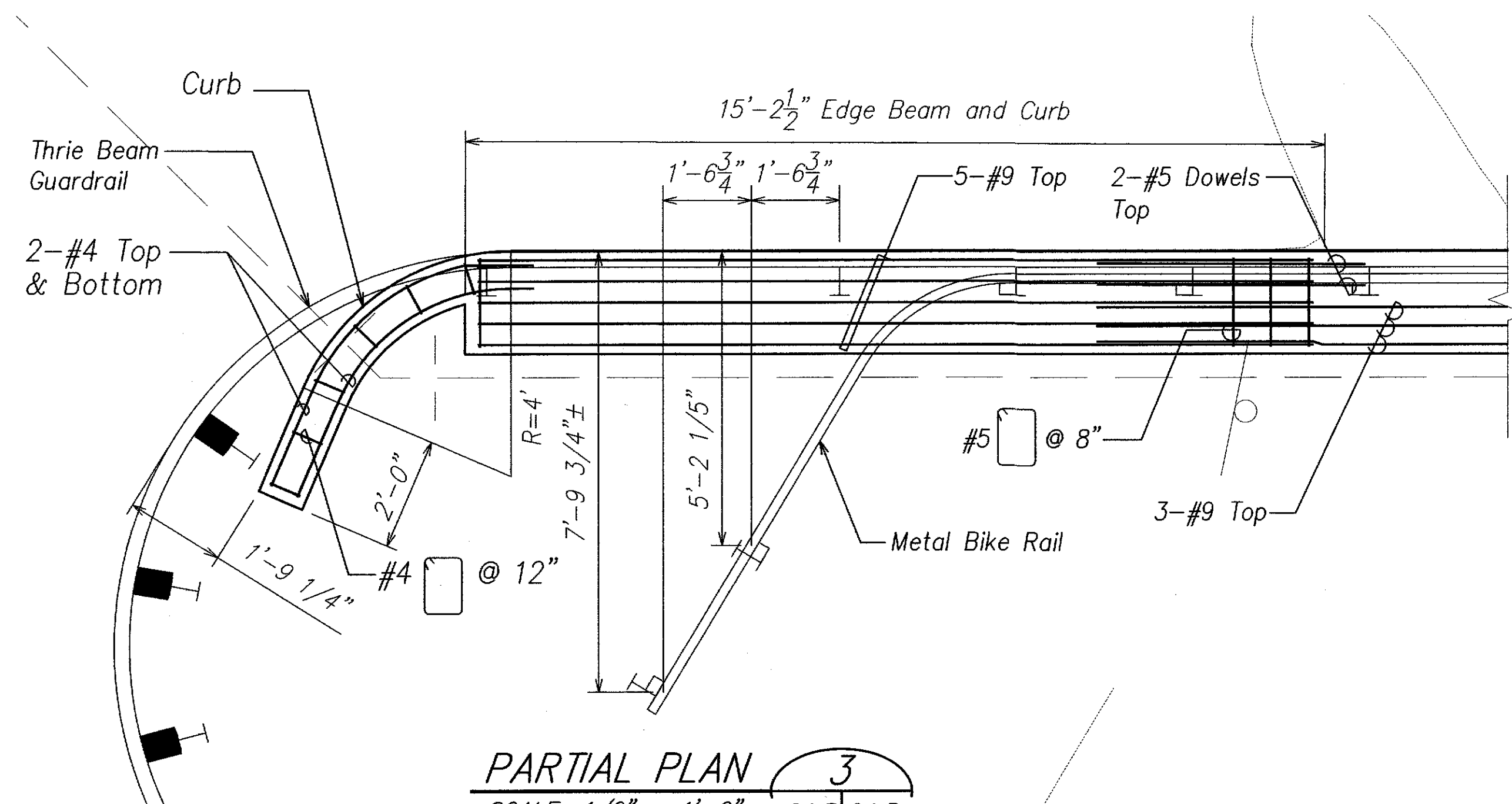
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	C.O. 71S-2	88



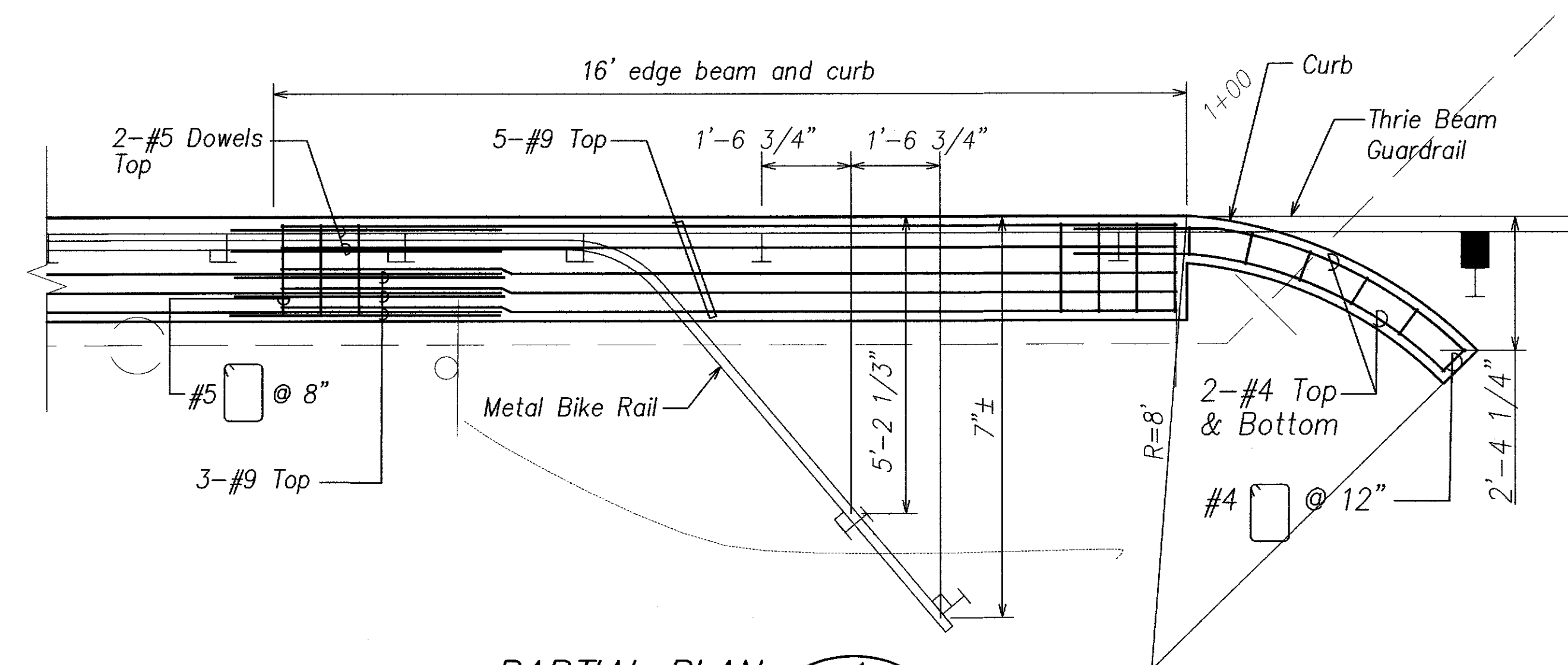
PARTIAL PLAN 1
SCALE: 1/2" = 1'-0" S4.5 S4.5



PARTIAL PLAN 2
SCALE: 1/2" = 1'-0" S4.5 S4.5

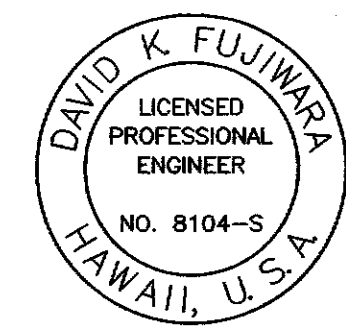


PARTIAL PLAN 3
SCALE: 1/2" = 1'-0" S4.5 S4.5



PARTIAL PLAN 4
SCALE: 1/2" = 1'-0" S4.5 S4.5

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	



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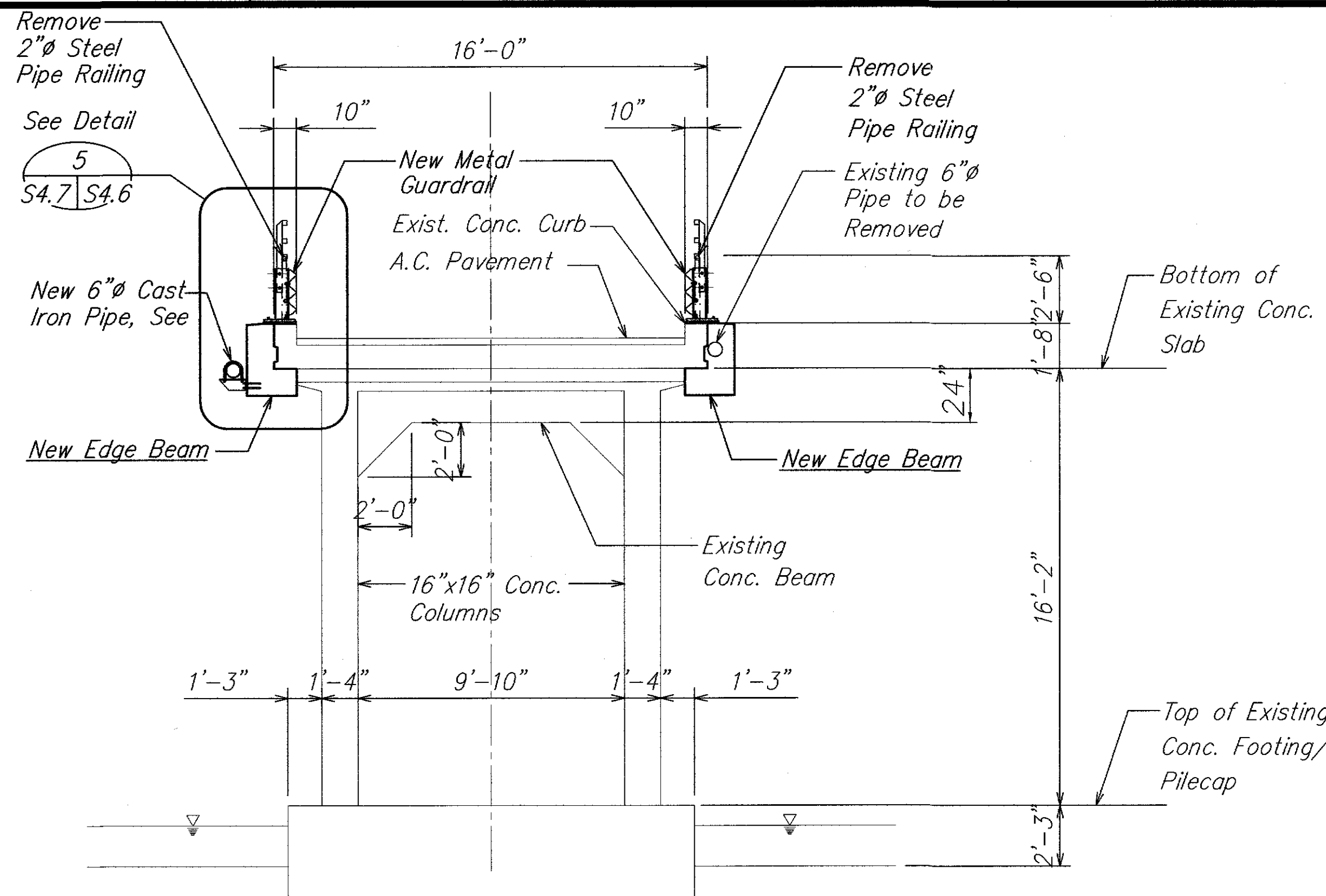
1/13/02	1	CCO #1 - New Sheet
DATE		REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3
PARTIAL PLAN

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEKEO, HAWAII - UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)

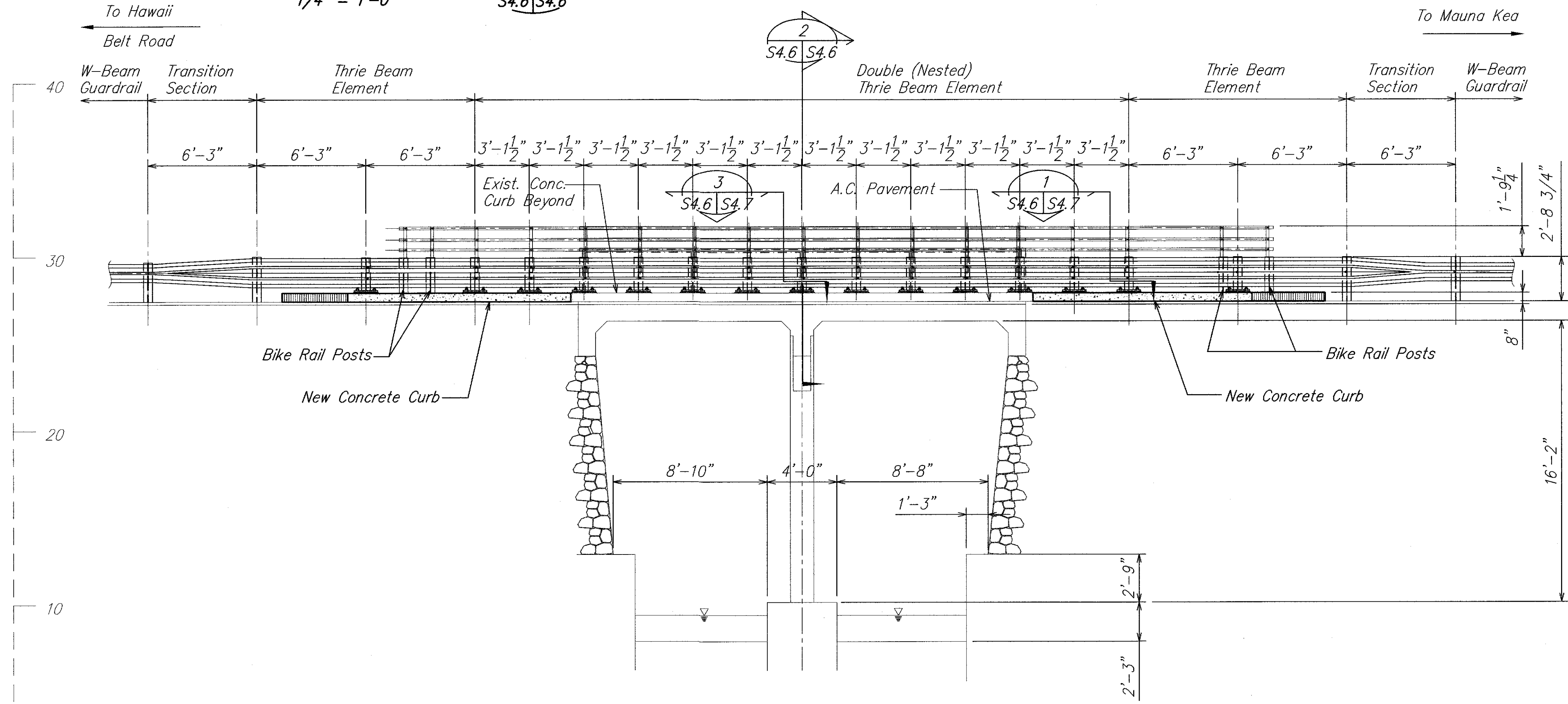
SHEET No. S4.5 OF 76 SHEETS
C.O. 71S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	C.O. 71S-3	88

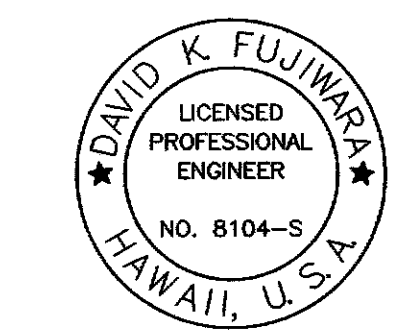


- NOTE:**
1. Repair existing concrete damaged when removing the existing railing or when performing any other work. Repair work shall be approved by the Engineer.
 2. Existing reinforcing shall not be damage in any way.
 3. Any unsound concrete shall be removed and concrete repaired. Repair work shall be approved by the Engineer.

CROSS SECTION 2
1/4" = 1'-0" S4.6 S4.6



ELEVATION 1
1/4" = 1'-0" S4.6 S4.6



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3
ELEVATION AND SECTION
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEEKEO, HAWAII - UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)
SCALE: AS NOTED
DATE: March 2001

1/13/02
DATE

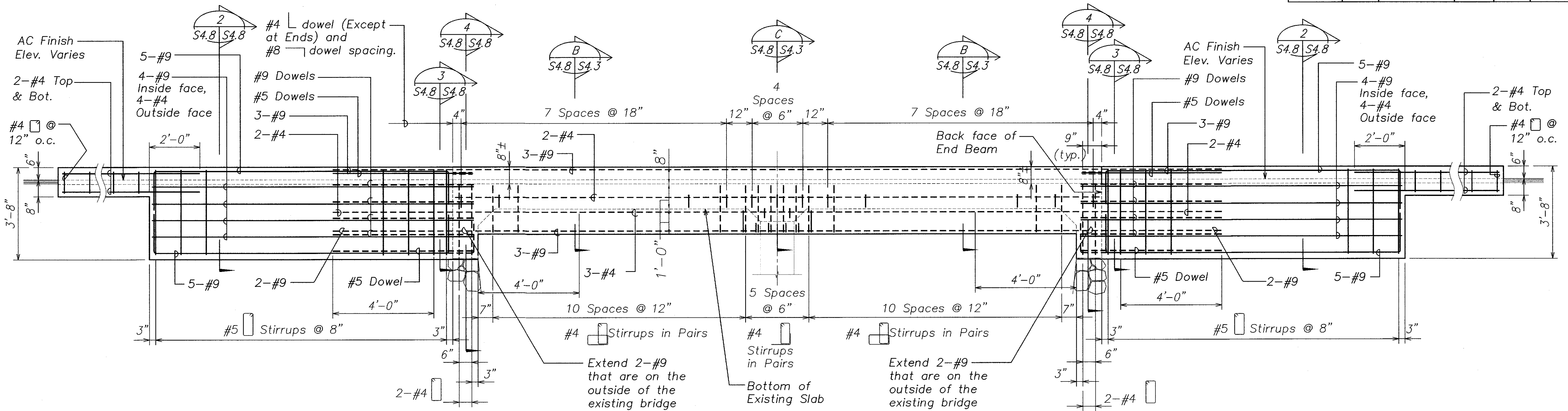
1
REVISION

CCO #1 - New Sheet

SHEET No. S4.6 OF 76 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-0100(57)	2001	C.O. 71S-5	88

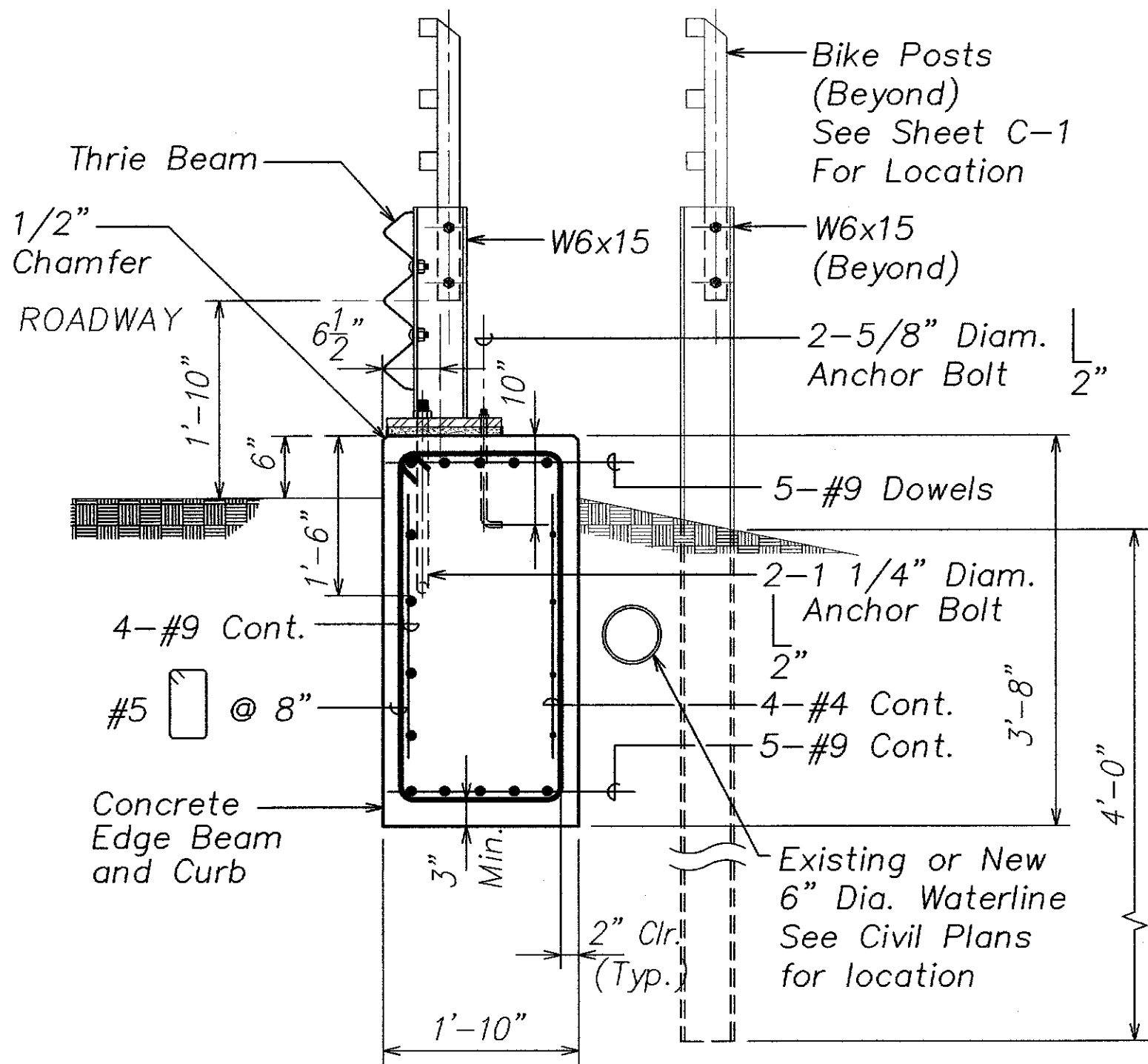


ELEVATION - EDGE BEAM 1
SCALE: 1/2" = 1'-0" S4.8 S4.8

Note:
Guardrails not shown for clarity.

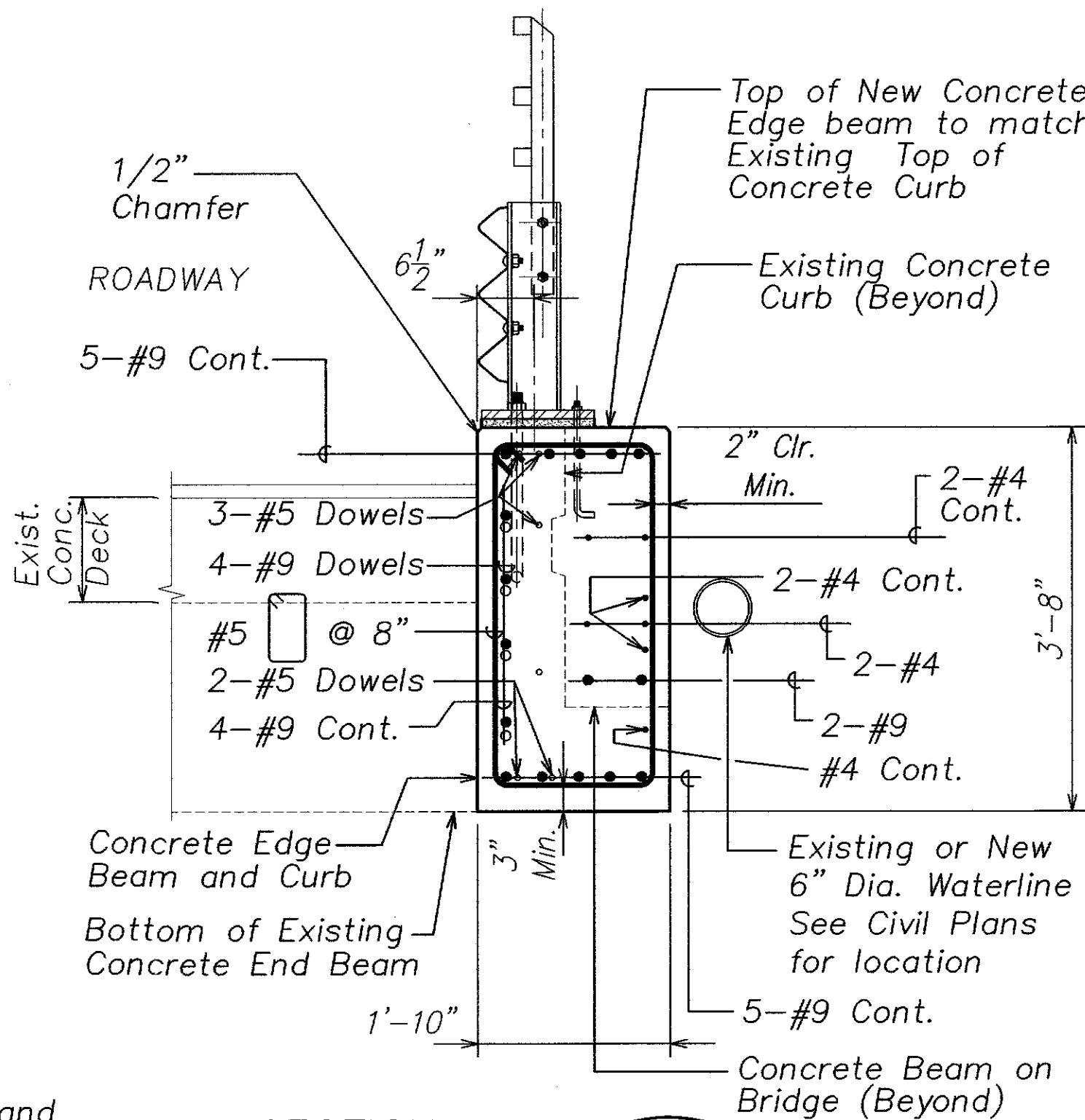
1/13/02	1	CCO #1 - New Sheet
DATE		REVISION

ORIGINAL PLAN	DATE
DESIGNED BY	...
CHECKED BY	...
NO.	...

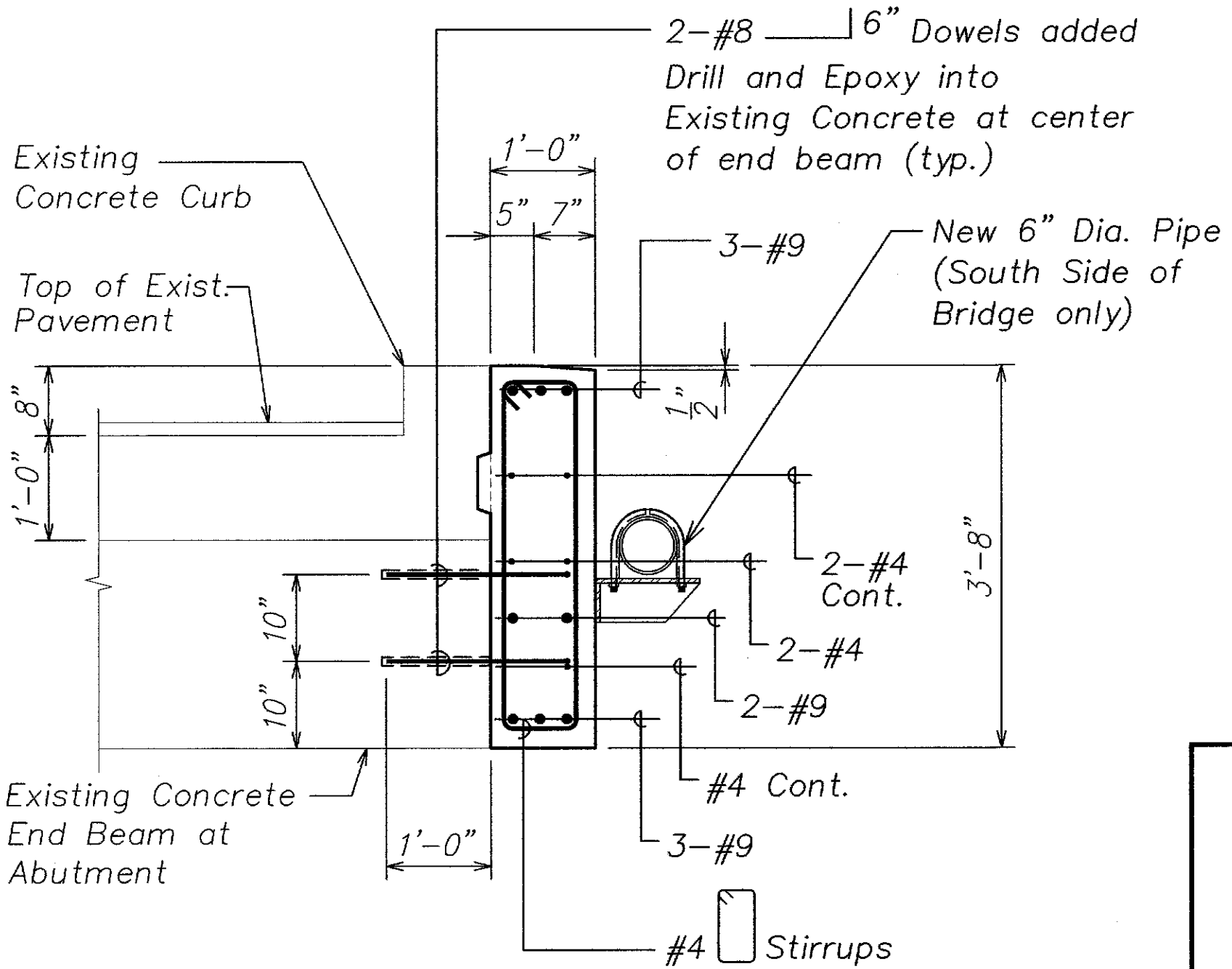


SECTION 2
SCALE: 3/4" = 1'-0" S4.8 S4.8

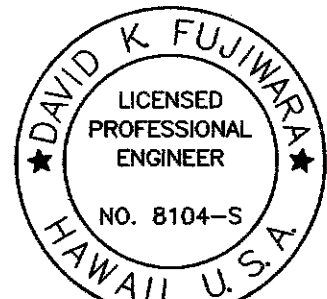
Note:
Cont. bars near and inside face shall be bent vertically 2" clr. from the existing abutment.



SECTION 3
SCALE: 3/4" = 1'-0" S4.8 S4.8



SECTION 4
SCALE: 3/4" = 1'-0" S4.8 S4.8



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PAHEEHEE MAUKA BRIDGE NO. 3
SECTIONS
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PEPEKEO, HAWAII - UNIT 1
FEDERAL-AID PROJECT NO. BR-0100(57)
SCALE: AS NOTED DATE: March 2001
SHEET No. S4.8 OF 76 SHEETS

