

A.

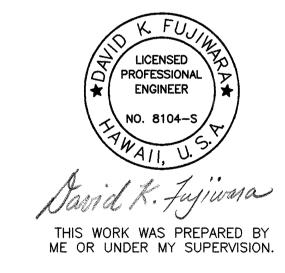
FILE: 7008S21.DWG PLOT: 1 = 20' <u>LEGEND</u>

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	16	65

F Fixed End

E Expansion End

	KAIEIE BRIDGE	RETRO	OFITS	
ITEM	Ι ()(`Δ ΙΙ()ΝΙ			REFERENCE DRAWINGS
Seat Extender	Abutments No. 1, No. 2	1	2	S2.2, S2.3, S2.4
Creep Block	Abutments No. 1, No. 2	5	10	S2.2, S2.3, S2.4
Creep Block	Piers No. 1, No. 2	10	20	S2.5, S2.6, S2.7, S2.9
Seat Extender	Piers No. 1, No. 2	12	24	S2.5, S2.6, S2.7, S2.8
Type II Dual Cable Restrainer	Piers No. 1, No. 2	10	20	S2.10, S5.2, S5.4, S5.5
Diaphragm	Abutments No. 1, No. 2	5	10	S2.3, S2.4
Diaphragm	Piers No. 1, No. 2	10	20	S2.6, S2.7
Longitudinal Bumper	Abutments No. 1, No. 2	6	12	S2.2, S2.4
				,



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAIEIE BRIDGE

DECK PLAN, ELEVATION
AND FOUNDATION PLAN
HAWAII BELT ROAD

HAWAII BELT ROAD

SEISMIC RETROFIT OF VARIOUS BRIDGES

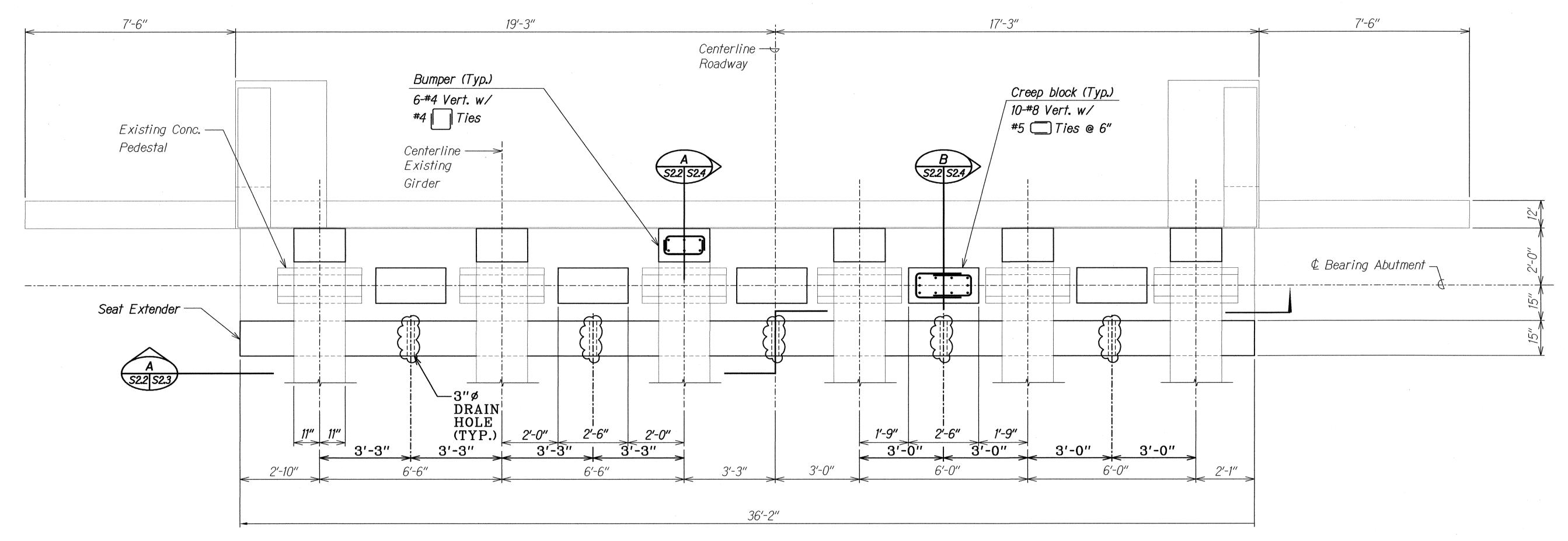
VICINITY OF PAPAIKOU, HAWAII
PROJECT NO. BR-019-2(43)

SCALE: AS NOTED

SHEET No. S2.1 OF 59 SHEETS

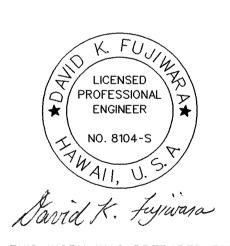
DATE: August 12, 1999

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	17	65



ABUTMENT NO. 2 - PLAN AS SHOWN
ABUTMENT NO. 1 - PLAN OPP. HAND

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



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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

KAIEIE BRIDGE

ABUTMENT NO. 1 AND NO. 2 PLAN

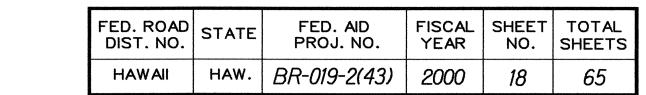
HAWA!! BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWA!!
Project No. BR-019-2(43)

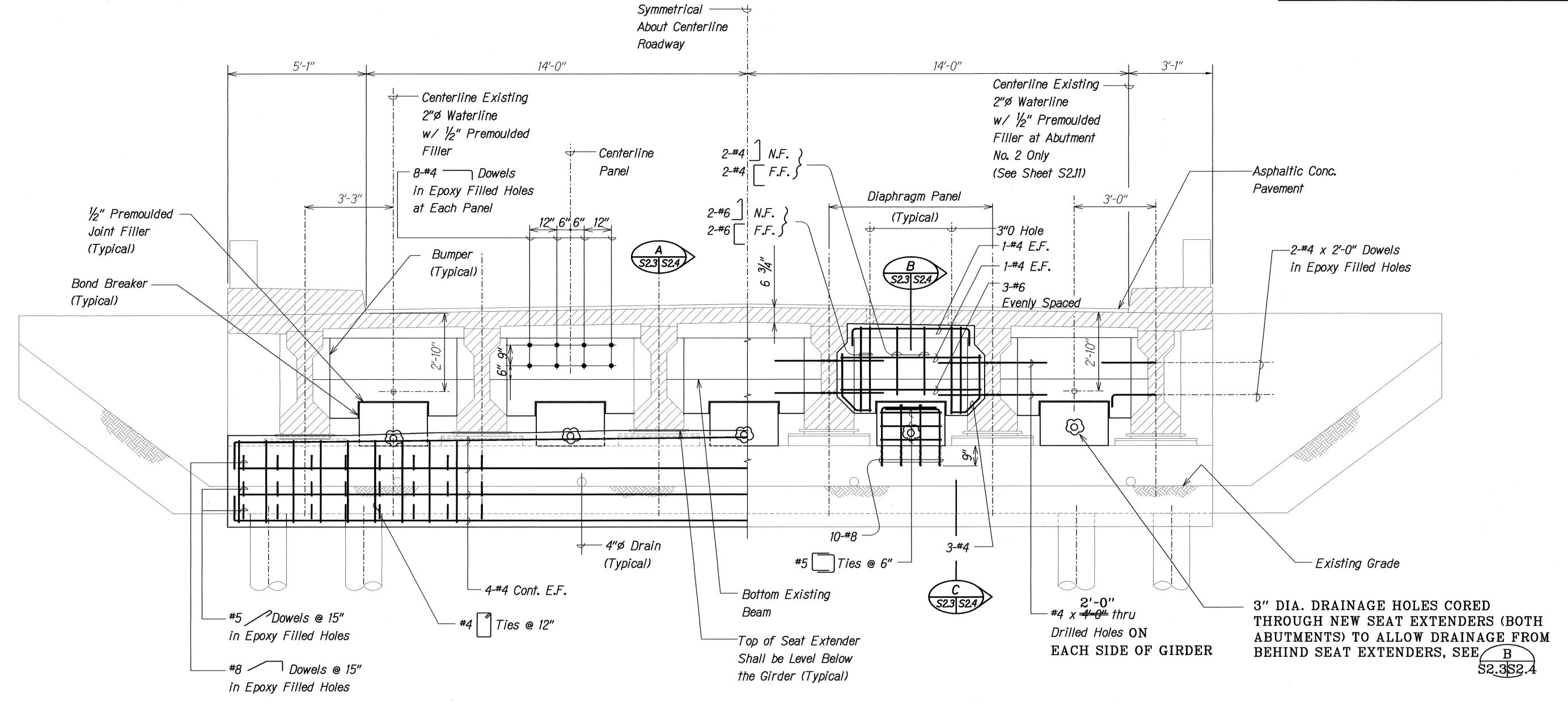
Scale: As Noted

Date: August 12, 1999

SHEET No. S2.2 OF 59 SHEETS

FILE: 7008\$22.DGN PLOT: ½" = 1'-0" "AS-BIIII.T"







1. The Contractor Shall Verify All Controlling Field Dimensions Before Ordering or Fabricating Material.

2. Location of Drilled Dowel Holes Shown in Plans are Approximate. Prior to Placing Holes in Concrete, the Contractor Shall Locate All Reinforcing Steel and Adjust the Location of the Holes to Clear All Reinforcing Bars. Final Hole Locations are Subject to the Approval of the Engineer.

ABUTMENT NO. 2 - ELEVATION ABUTMENT NO. 1 - OPP. HAND Scale: 1/2" = 1'-0"

√√√√

100.00

Roadway

LEGEND FOR AS-BUILT POSTINGS

Text for as-built posting

Squiggly line for as-built deletion

Double line for as-built deletion

PROFESSIONAL ENGINEER Savid K. Feyiwasa

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18

ABUTMENT NO. 1 AND NO. 2 **ELEVATION**

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

KAIEIE BRIDGE

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWAII
Project No. BR-019-2(43)

Scale: As Noted Date: August 12, 1999

SHEET No. S2.3 OF 59 SHEETS

FILE: 7008S23.DGN PLOT: ½" = 1'-0"

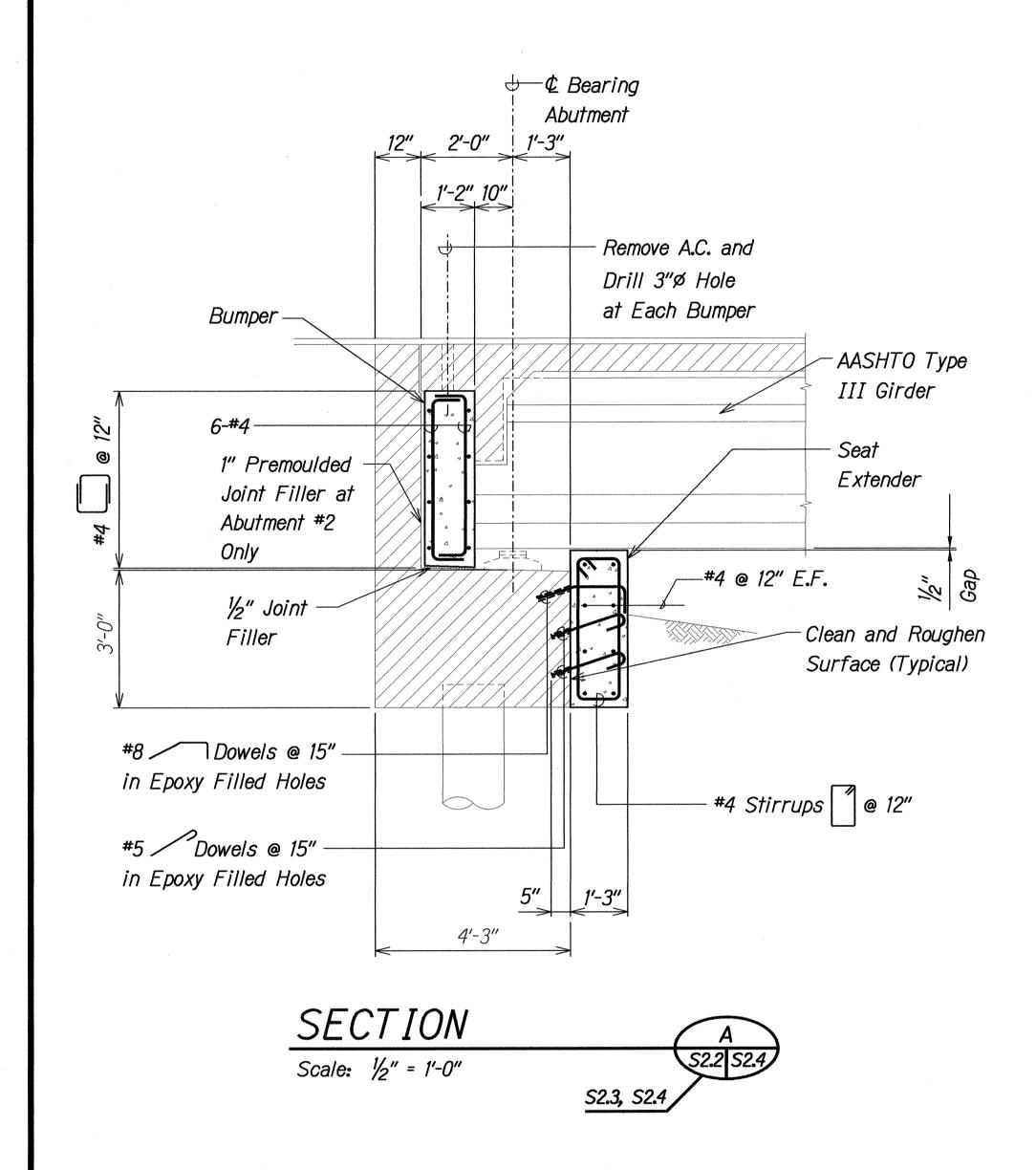
"AS-BUILT"

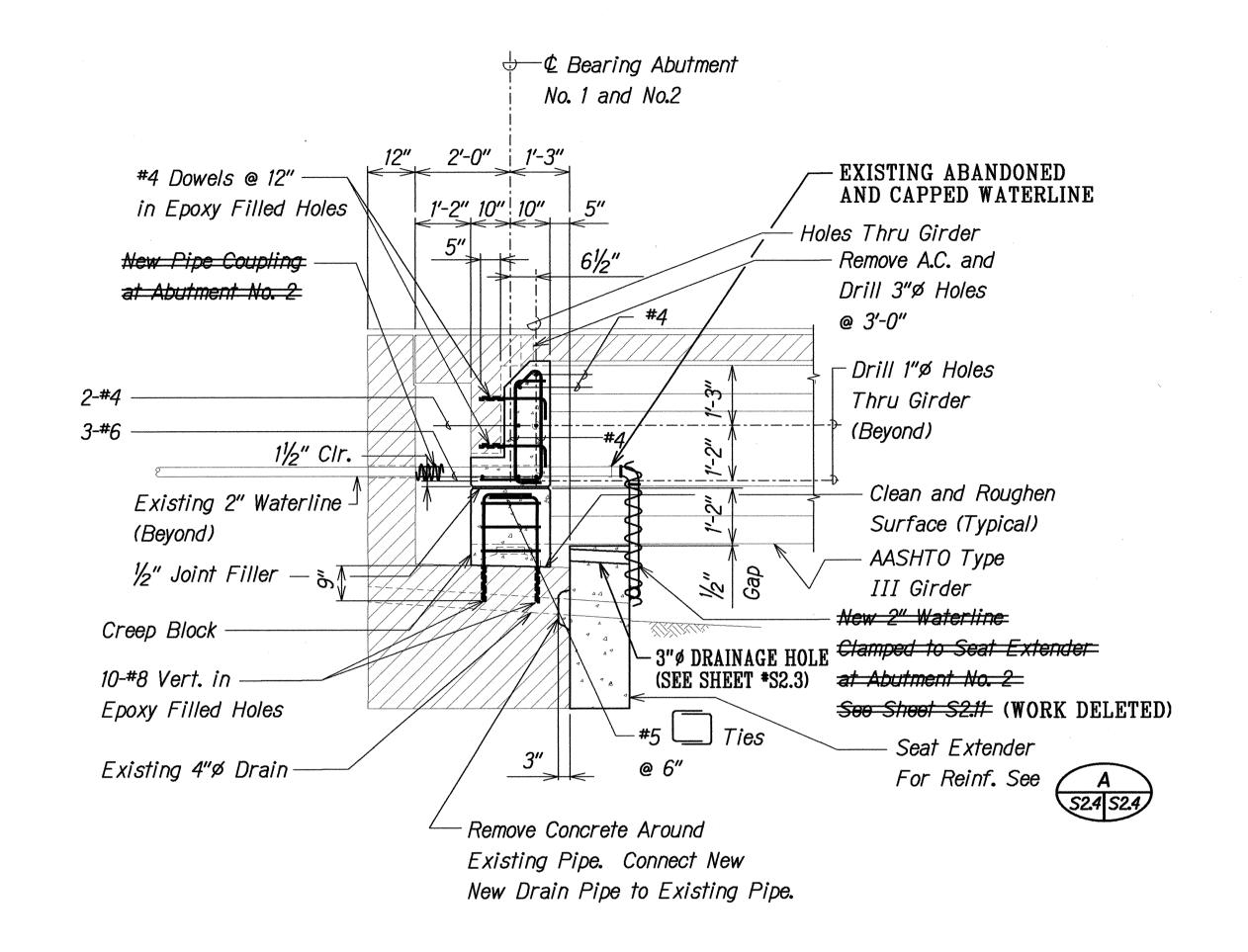
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	19	65

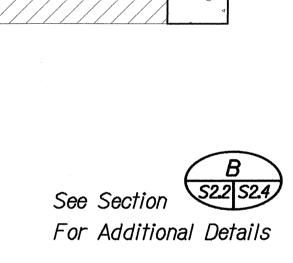
-*Diaphragm*

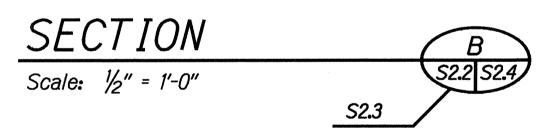
EXISTING ABANDONED AND CAPPED WATERLINE

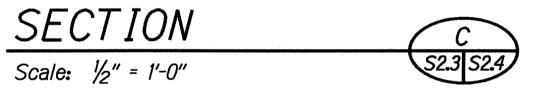
No. 1 and No.2







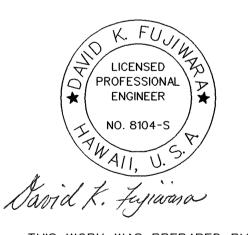




2-#4

2-#4

1-#4



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STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

KAIEIE BRIDGE

ABUTMENT SECTIONS

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWAII
Project No. BR-019-2(43)

Scale: As Noted

Date: August 12, 1999

SHEET No. S2.4 OF 59 SHEETS

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion

Double line for as-built deletion

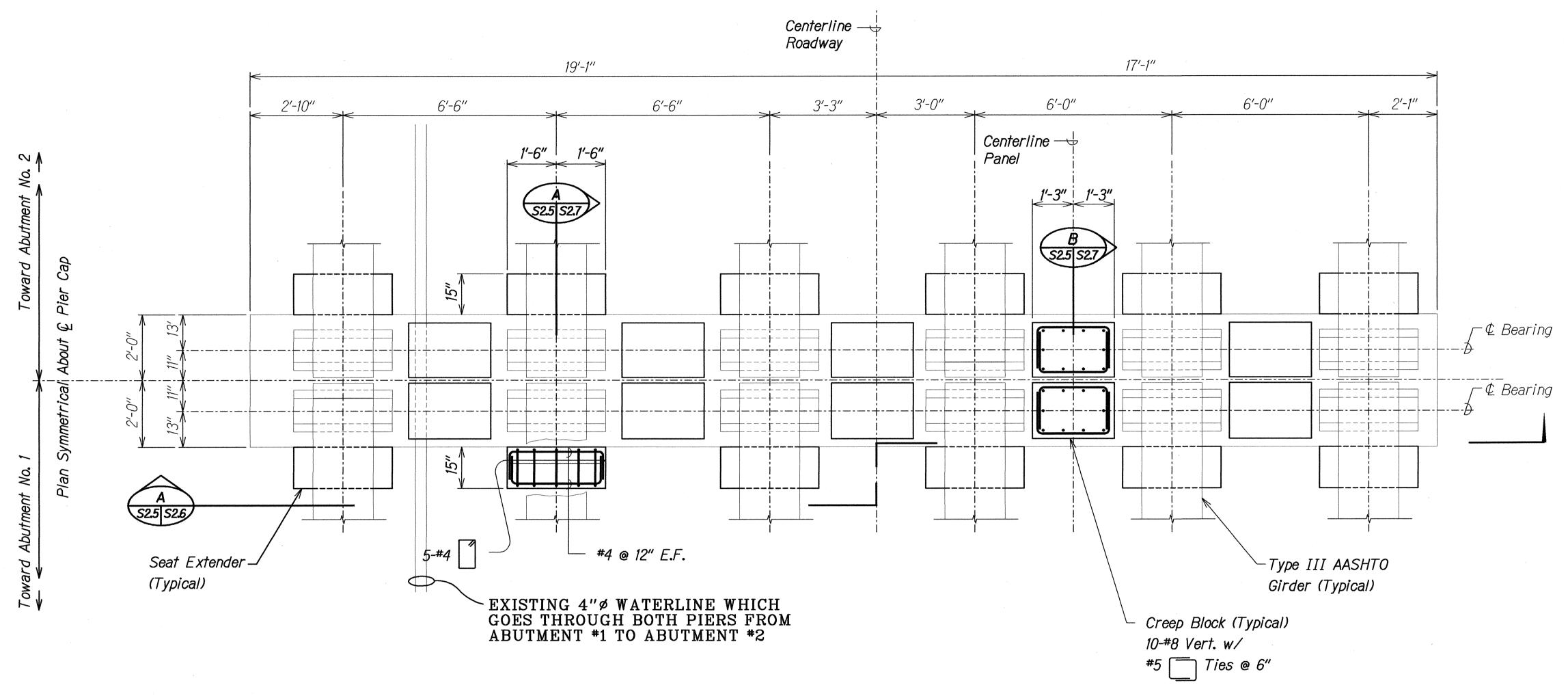
Roadway Text for as-built posting

NOTES:

- 1. The Contractor Shall Verify All Controlling Field Dimensions Before Ordering or Fabricating Material.
- 2. Location of Drilled Dowel Holes Shown in Plans are Approximate. Prior to Placing Holes in Concrete, the Contractor Shall Locate All Reinforcing Steel and Adjust the Location of the Holes to Clear All Reinforcing Bars. Final Hole Locations are Subject to the Approval of the Engineer.
- 3. When Pouring Concrete Thru 3" Diameter Holes There Shall Be No Void Spaces, Entrapped Air, or Entrapped Water.
- 4. After Pouring Concrete to Top of Deck, A.C. shall be Replaced to Original Elevation. Do not Place A.C. Until Concrete has Sufficiently Hardened.
- 5. For Lane Closures, see Specifications.

ORIGINAL SURVEY PLOTTED PLAN
DRAWN BY
TRACED BY
NOTE BOOK DESIGNED BY
OUANTITIES BY
No. CHECKED BY

FED. ROAD	STATE	FED. AID	FISCAL	SHEET	TOTAL
DIST. NO.		PROJ. NO.	YEAR	NO.	SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	20	65



PIERS NO. 1 AND NO. 2 - CAP PLAN

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

Detail 1 at Pier Cap No. 1



- 1. The Contractor Shall Verify All Controlling Field Dimensions Before Ordering or Fabricating Material.
- 2. Location of Drilled Dowel Holes Shown in Plans are Approximate. Prior to Placing Holes in Concrete, the Contractor Shall Locate All Reinforcing Steel and Adjust the Location of the Holes to Clear All Reinforcing Bars. Final Hole Locations are Subject to the Approval of the Engineer.

LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion **₩** Double line for as-built deletion 100.00 Text for as-built posting Roadway

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LICENSED ENGINEER

NO. 8104-S

Savid K. Jujiwana

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

KAIEIE BRIDGE

PIER NO. 1 AND NO. 2 CAP PLAN

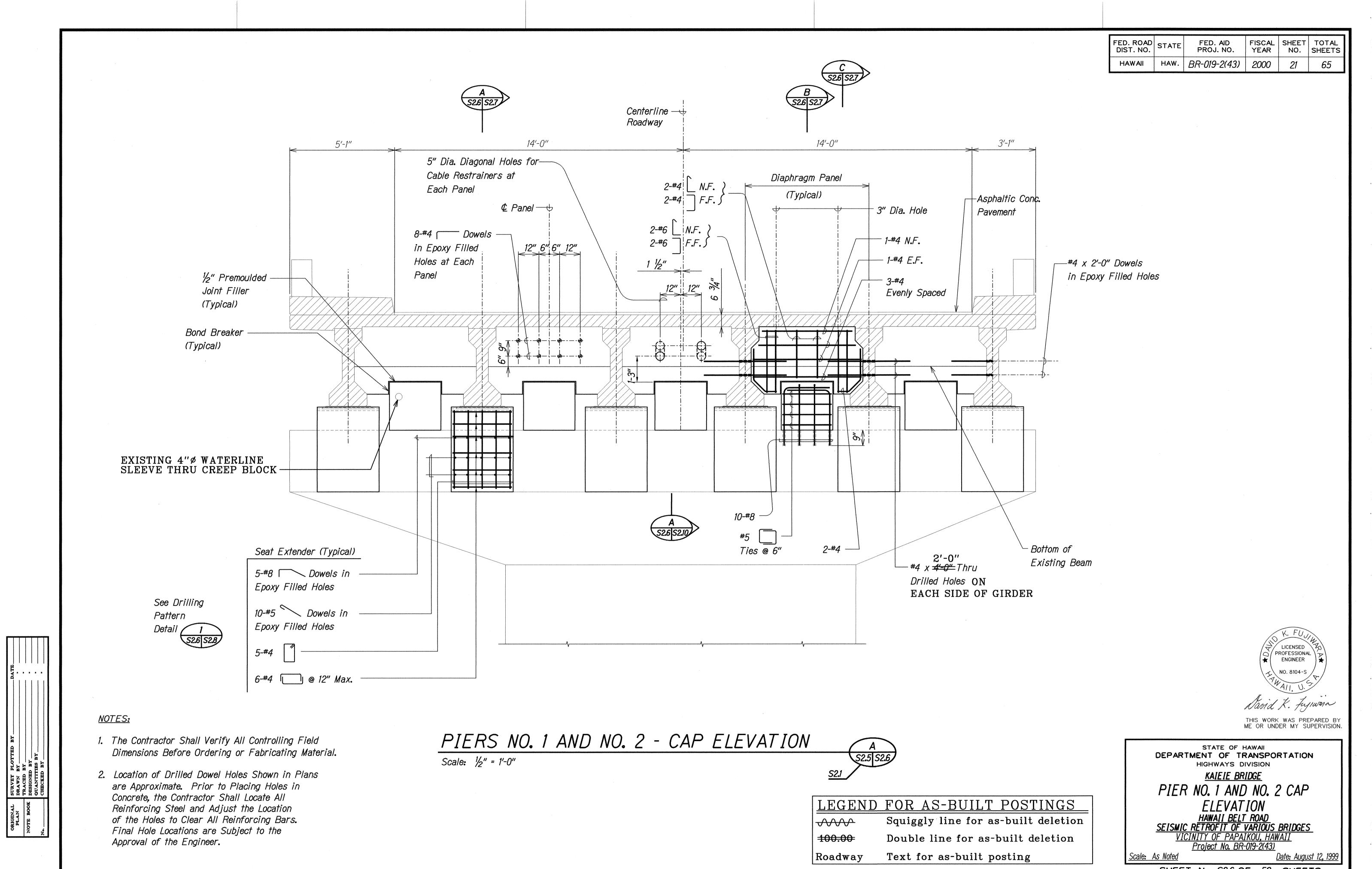
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWAII
Project No. BR-019-2(43)

Scale: As Noted SHEET No. S2.5 OF 59 SHEETS

Date: August 12, 1999

FILE: 7008S25.DGN PLOT: ½" = 1'-0"

"AS-BUI



FILE: 700852.6.DGN PLOT: ½" = 1'-0"

Approval of the Engineer.

"AS-BUILT"

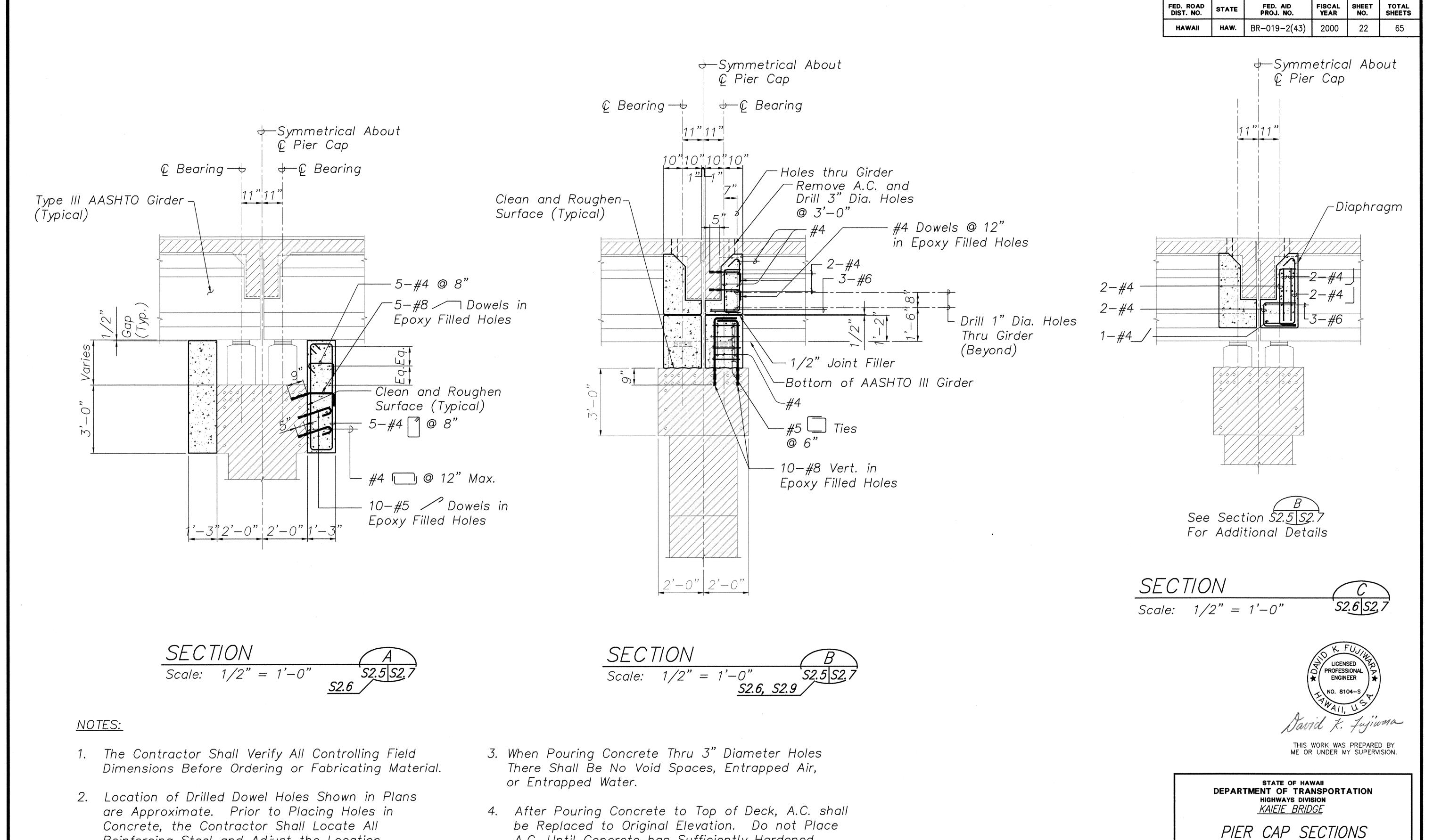
SHEET No. S2.6 OF 59 SHEETS

Double line for as-built deletion

Text for as-built posting

100.00

Roadway



A.C. Until Concrete has Sufficiently Hardened.

5. For Lane Closures, see Specifications.

Reinforcing Steel and Adjust the Location

of the Holes to Clear All Reinforcing Bars.

Final Hole Locations are Subject to the

Approval of the Engineer.

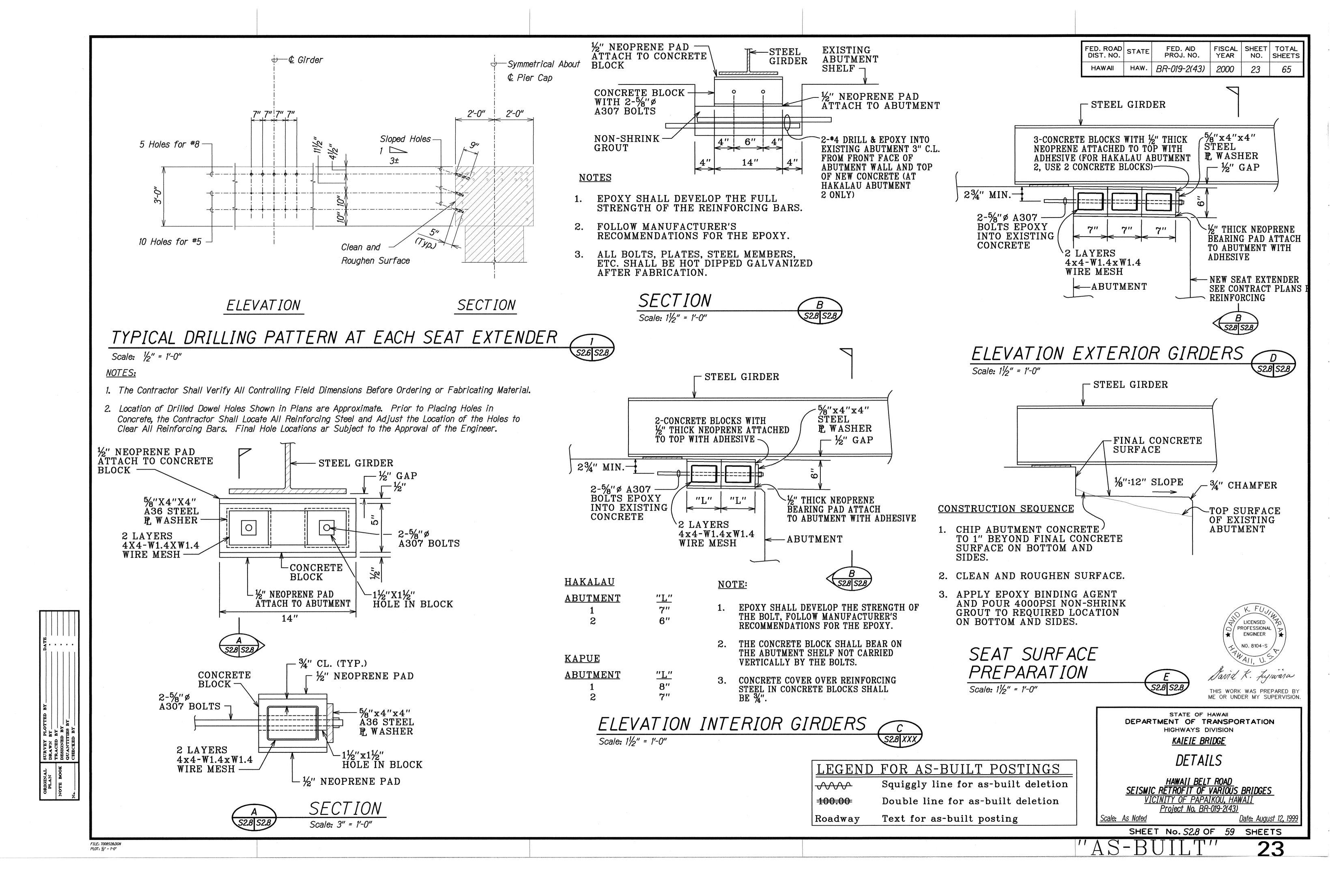
SHEET No. S2.7 OF 59 SHEETS

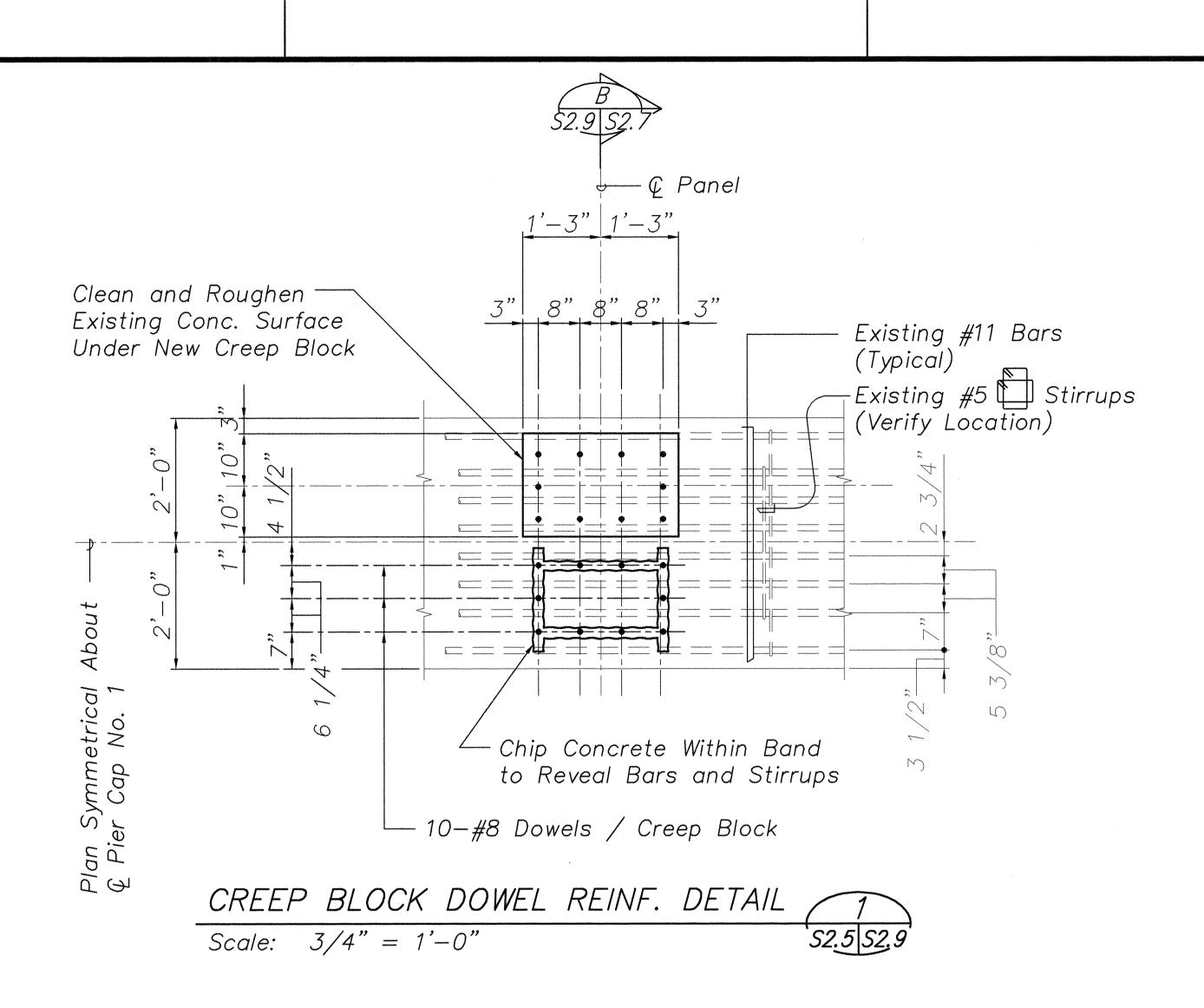
SCALE: AS NOTED

DATE: August 12, 1999

<u>HAWAII BELT ROAD</u> SEISMIC RETROFIT OF VARIOUS BRIDGES

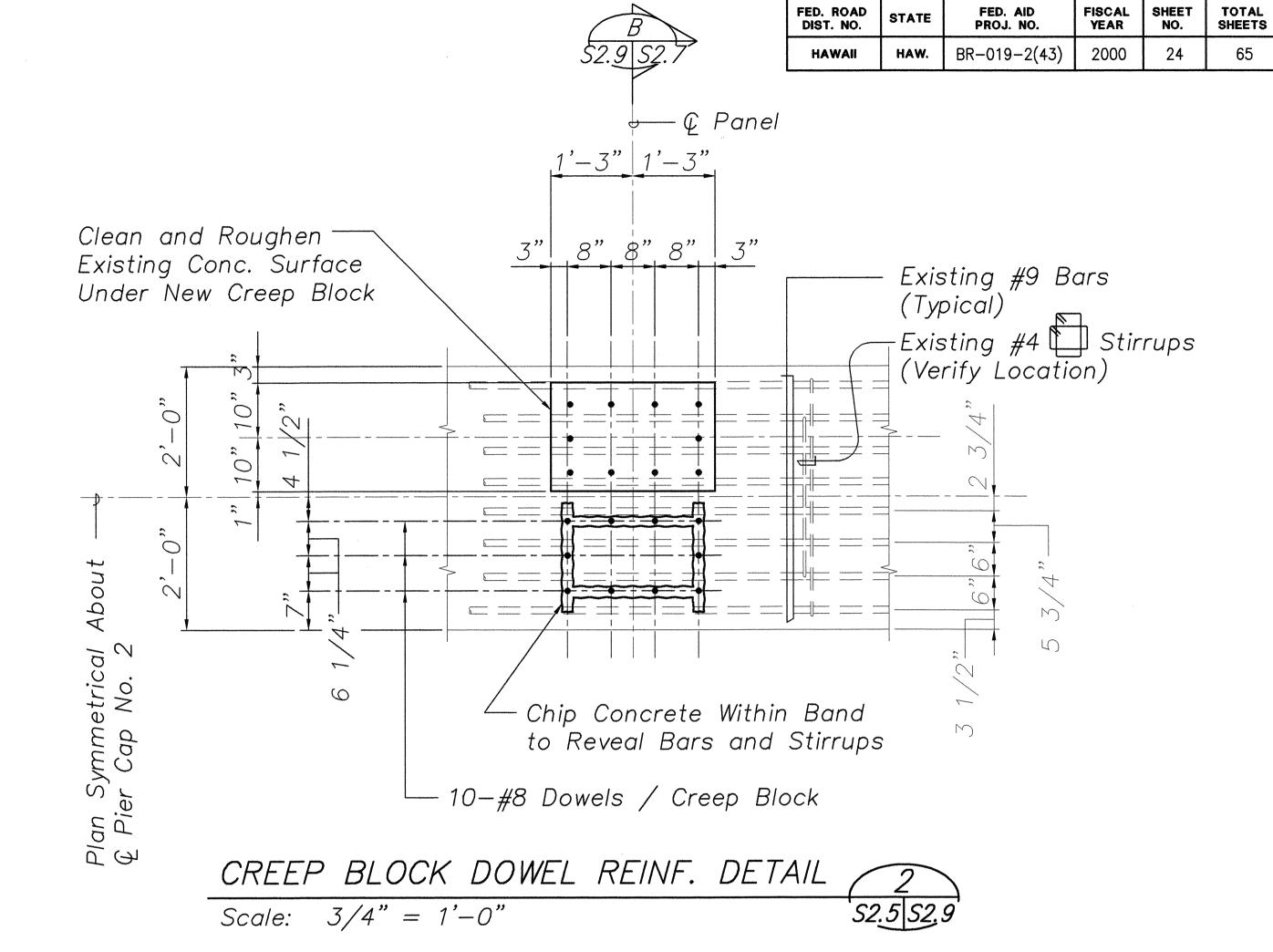
VICINITY OF PAPAIKOU, HAWAII PROJECT NO. BR-019-2(43)





WORK SEQUENCE

- 1. Chip Surface Concrete to Reveal Location of Top Bars and Stirrups. Existing Reinforcing Shall Remain Intact.
- 2. Notify Engineer Before Proceeding. He Will Make Necessary Adjustments to the Exact Location of the Dowels.
- 3. Drill Holes, Apply Epoxy Adhesive and Insert Dowels According to Manufacturer's Recommendations. The Full Strength of the Bars Shall be Developed.
- 4. Remove Excess Adhesive from Concrete Surface and Proceed with Remaining Work.





STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION KAIEIE BRIDGE

DETAILS

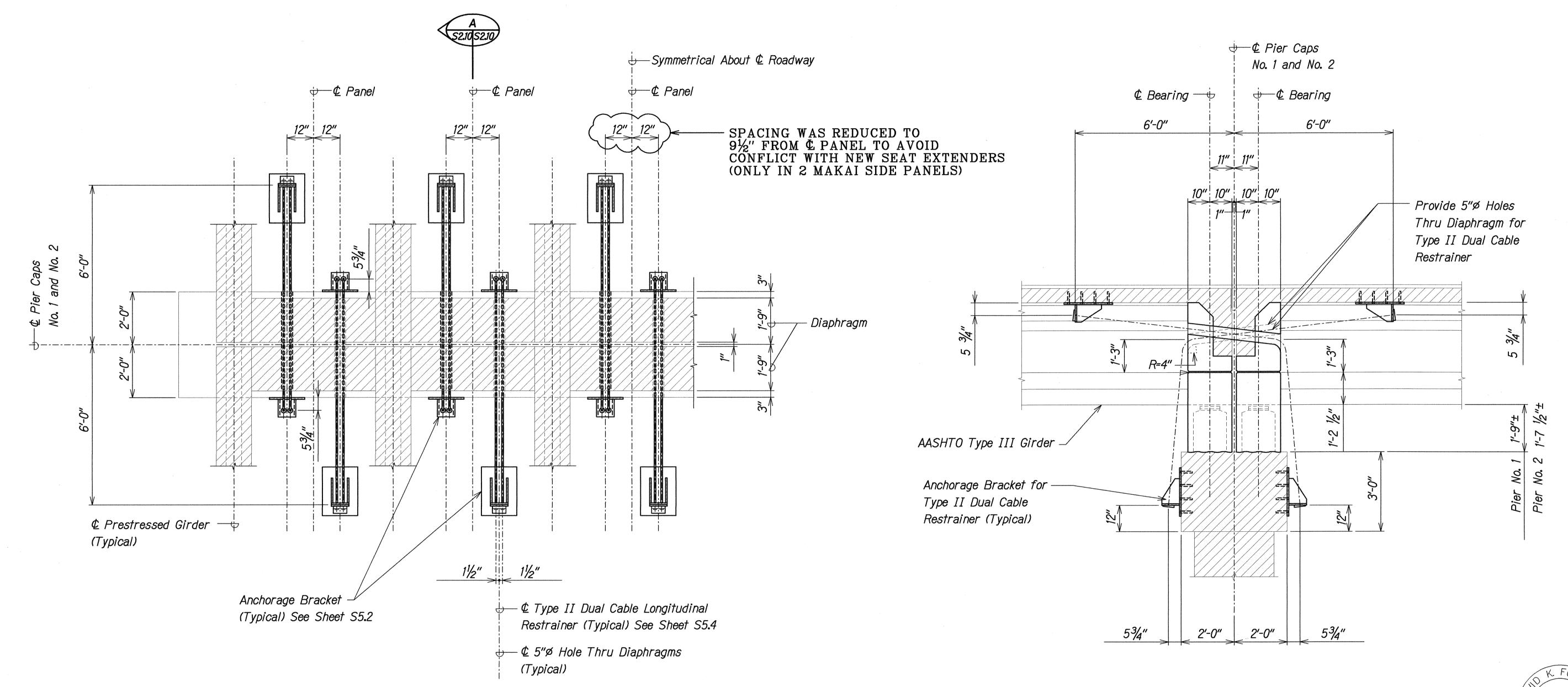
<u>HAWAII BELT ROAD</u> SEISMIC RETROFIT OF VARIOUS BRIDGES VICINITY OF PAPAIKOU, HAWAII PROJECT NO. BR-019-2(43)

DATE: August 12, 1999 SHEET No. S2.9 OF 59 SHEETS

SCALE: AS NOTED

FILE: 7008S28.DWG PLOT: 1 = 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR		TOTAL SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	25	65



PLAN - PIER CAP RESTRAINER

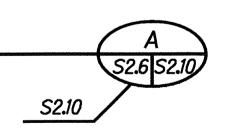
Scale: 1/2" = 1'-0"

NOTES:

- 1. The Contractor Shall Verify All Controlling Field Dimensions Before Ordering or Fabricating Material.
- 2. Location of Drilled Dowel Holes Shown in Plans are Approximate. Prior to Placing Holes in Concrete, the Contractor Shall Locate All Reinforcing Steel and Adjust the Location of the Holes to Clear All Reinforcing Bars. Final Hole Locations are Subject to the Approval of the Engineer.



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



LICENSED PROFESSIONAL ENGINEER NO. 8104-S Pavid K. Frymin

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LEGEND FOR AS-BUILT POSTINGS

Squiggly line for as-built deletion **√√√** 100.00 Double line for as-built deletion Text for as-built posting Roadway

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION KAIEIE BRIDGE

CABLE RESTRAINER SECTIONS

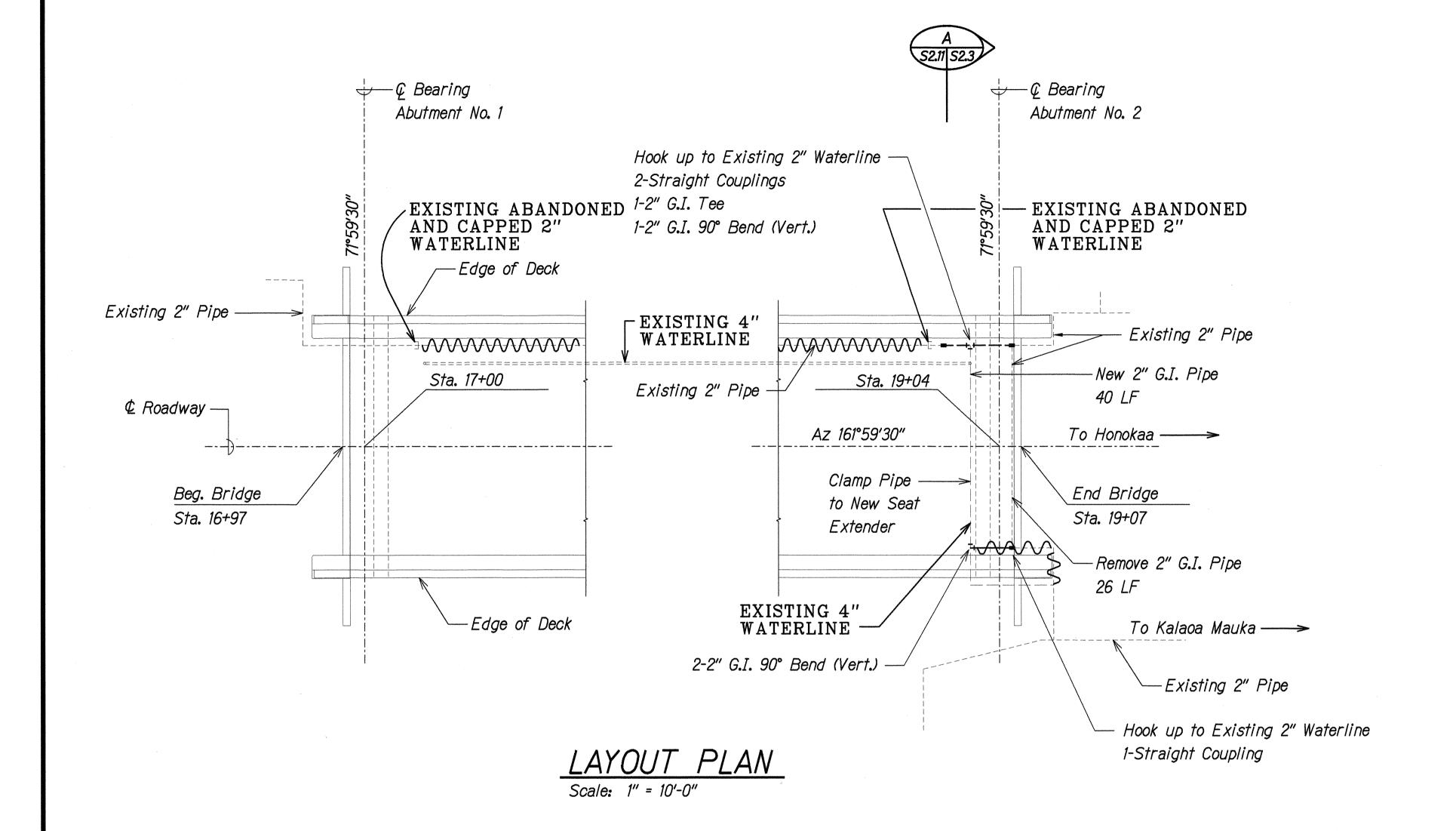
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWAII
Project No. BR-019-2(43) Scale: As Noted Date: August 12, 1999

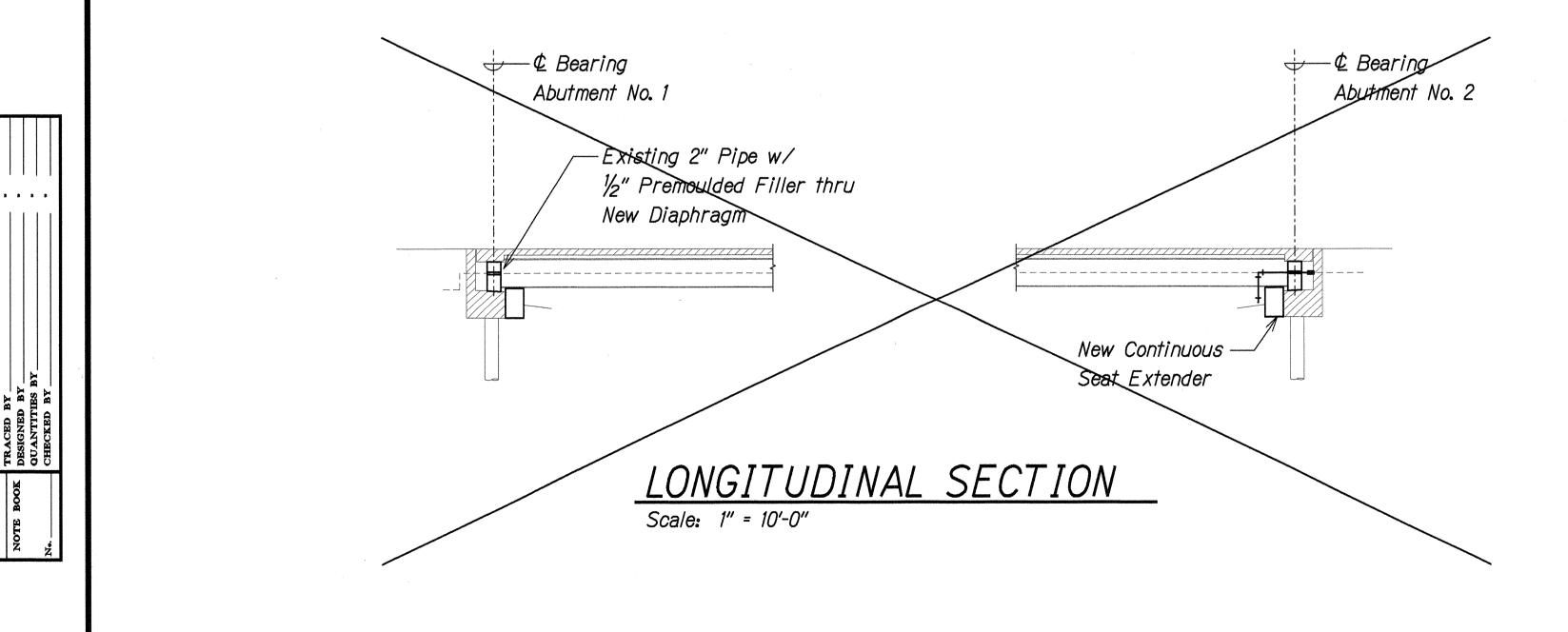
SHEET No. S2.10 OF 59 SHEETS

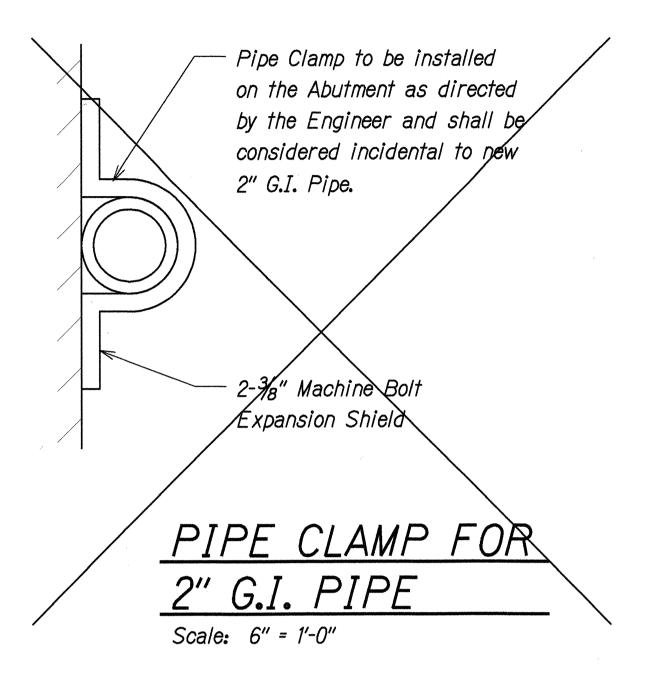
FILE: 70085210.DGN PLOT: ½" = 1'-0"

SURVEY PLOTTED BRAWN BY TRACED BY DESIGNED BY CHECKED BY CHECKED BY

FED. ROAD STATE FED. AID FISCAL SHEET TOTAL SHEETS NO. BR-019-2(43) 2000 26 65





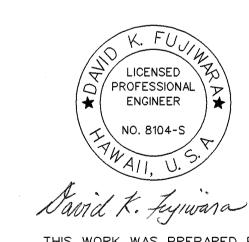


WATERLINE NOTES:

- 1. 2" G.I. pipes, straight couplings, bends, pipe clamps and other items required to realign the pipeline shall be furnished and installed by the Contractor.
- 2. Connections to existing main shall be made as directed by the Board of Water Supply Engineer.
- 3. Chlorination for all new pipes and by-pass line shall be done by the Board of Water Supply.

NOTE:

1) ALL WATERLINE WORK WAS DELETED AND NOT COMPLETED.



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LEGEND FOR AS-BUILT POSTINGS

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Roadway Text for as-built posting

DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAIEIE BRIDGE

WATERLINE RE-ALIGNMENT

AT ABUTMENT

HAWAII BELT ROAD

SEISMIC RETROFIT OF VARIOUS BRIDGES

VICINITY OF PAPAIKOU, HAWAII

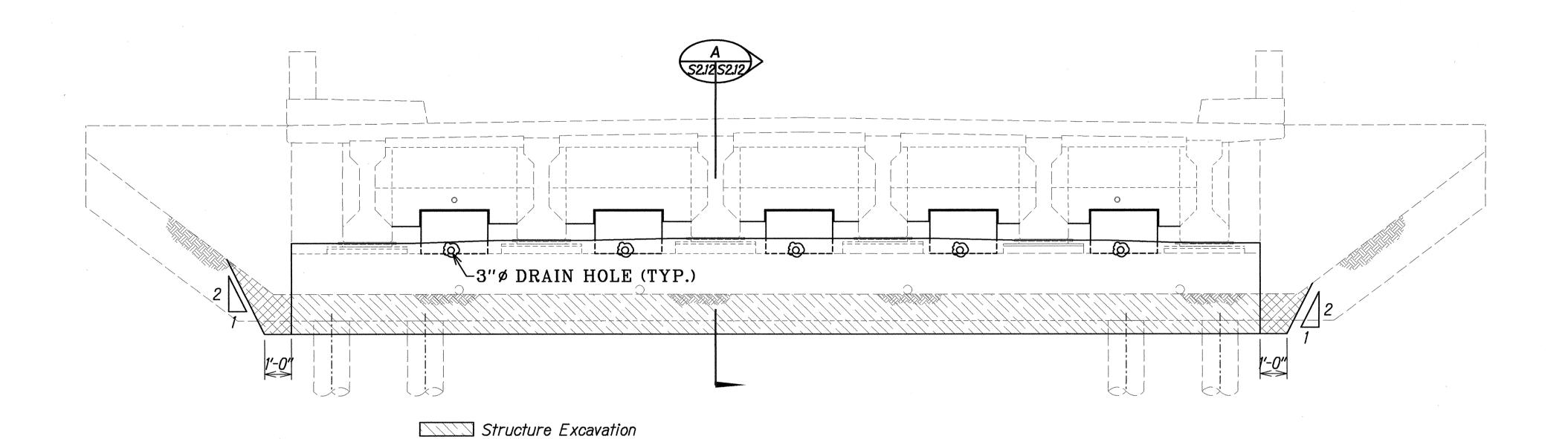
Project No. BR-019-2(43)

Scale: As Noted

Date: August 12, 1999

SHEET No. S2.11 OF 59 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(43)	2000	27	65



−3"ø DRAIN HOLE

Structure Excavation

Structure Backfill

<u>SECTION</u> Scale: 3/8" = 1'-0"



ELEVATION - ABUTMENT

Structure Backfill - CLSM WAS USED AS STRUCTURE BACKFILL

STRUCTURE EXCAVATION / BACKFILL PAY LIMITS

Scale: 3/8" = 1'-0"

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION KAIEIE BRIDGE

LICENSED PROFESSIONAL ENGINEER

STRUCTURE EXC./BACKFILL PAY LIMITS - ABUTMENT

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF PAPAIKOU, HAWAII
Project No. BR-019-2(43) Date: August 12, 1999

SHEET No. S2.12 OF 59 SHEETS

LEGEND FOR AS-BUILT POSTINGS Squiggly line for as-built deletion **₩** Double line for as-built deletion 100.00 Text for as-built posting Roadway