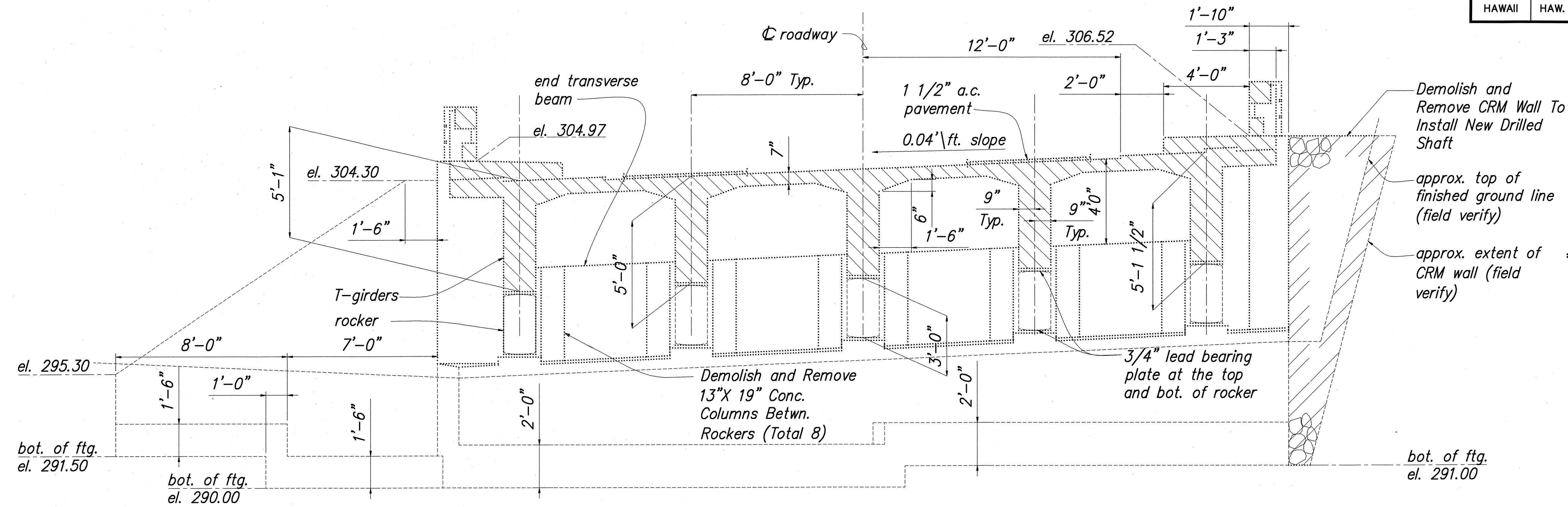


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(44)	1998	22	61

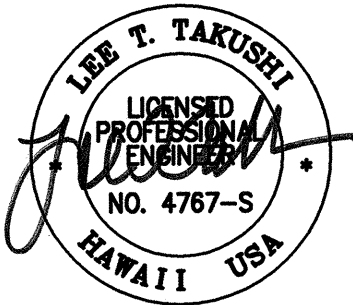


ABUTMENT NO. 2 – EXISTING CONDITIONS
NORMAL TO GIRDERS ELEVATION
SCALE: 3/8"=1'-0"



SURVEY PLOTTED BY	DATE
DESIGNED BY	"
QUANTITIES BY	"
CHECKED BY	"
NO.	"

1997\9702000\DWG\DET1\97020025.DWG 05/21/98 14:12 DY



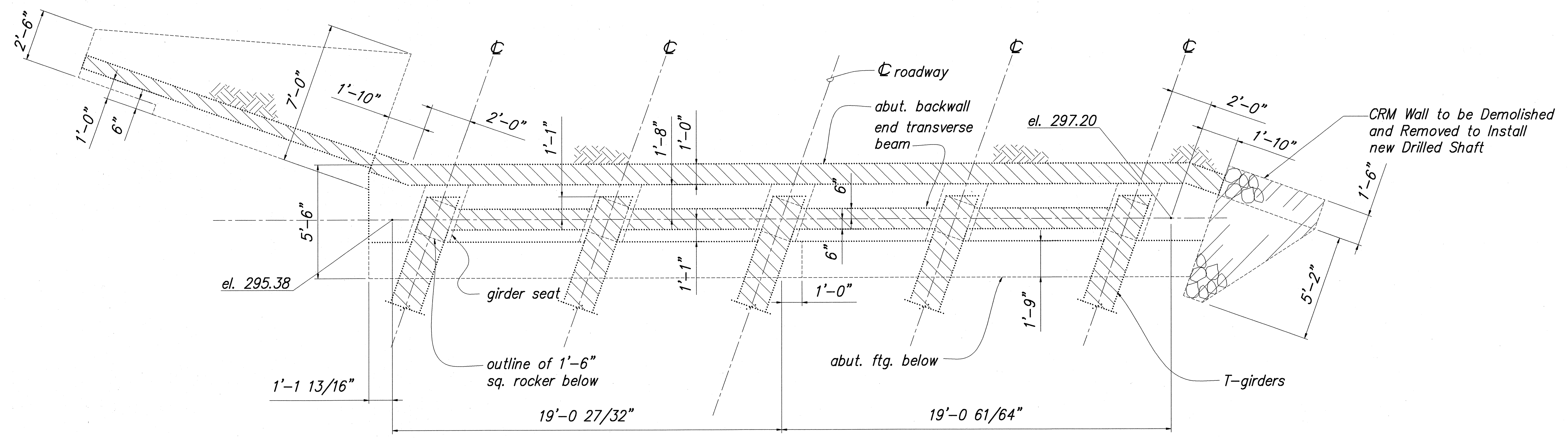
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAIWILAHILAH I BRIDGE
ABUTMENT SECTION NO. 2
EXISTING CONDITIONS ELEVATION

HAWAII BELT ROAD, SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF LAUPAHOEHOE
FEDERAL AID PROJECT NO. BR-019-2(44)
SCALE: AS NOTED DATE: APRIL 1998

SHEET No. S19 OF 58 SHEETS

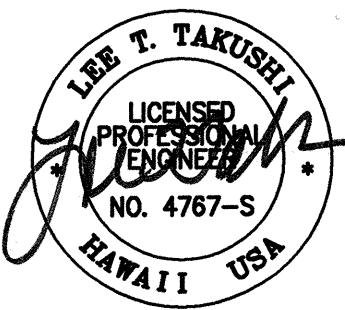
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(44)	1998	23	61



ABUTMENT NO. 2
EXISTING CONDITIONS SECTION PLAN
 SCALE: 3/8"=1'-0"
 A
 S19 S20

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

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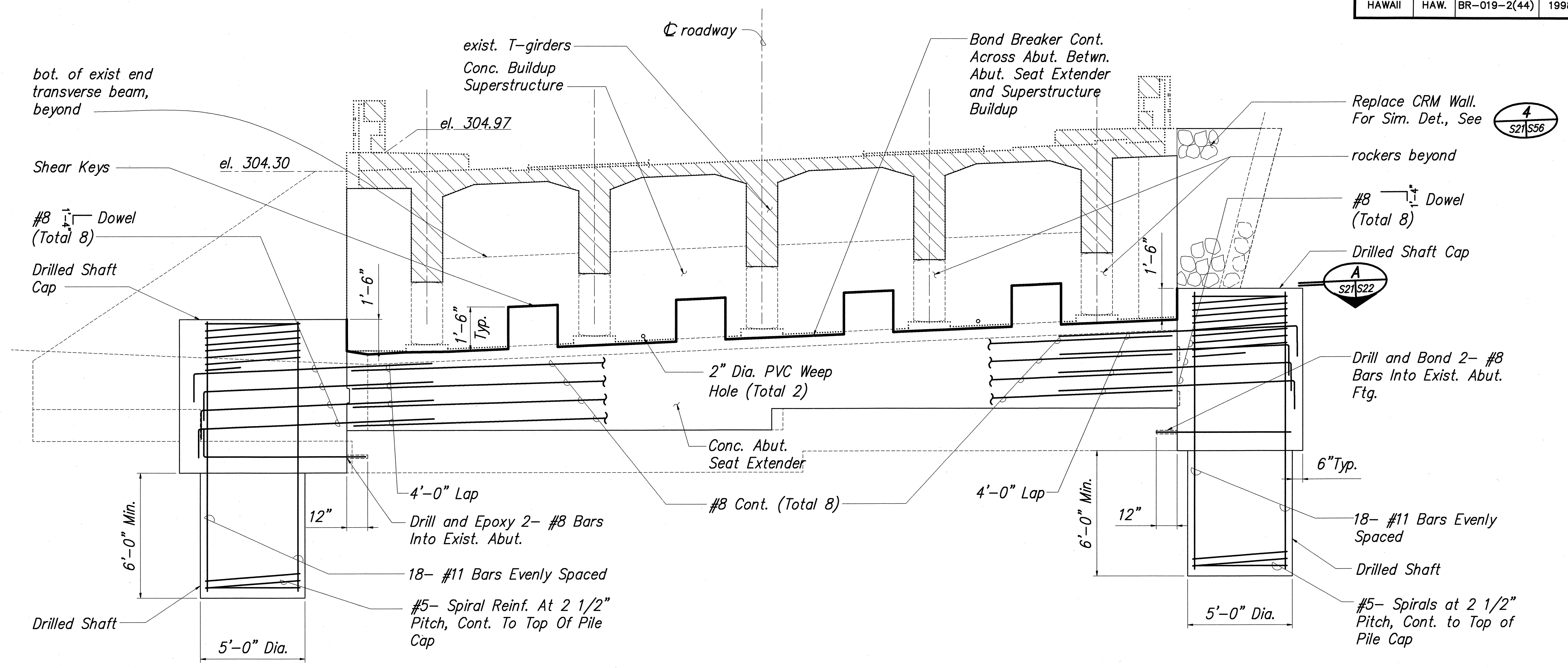
STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

KAIWILAHILAHU BRIDGE
ABUTMENT NO. 2
EXISTING CONDITIONS - SECTION

 HAWAII BELT ROAD, SEISMIC RETROFIT OF VARIOUS BRIDGES,
 VICINITY OF LAUPAHOEHOE
 FEDERAL AID PROJECT NO. BR-019-2(44)
 SCALE: AS NOTED DATE: APRIL 1998

 SHEET No. S20 OF 58 SHEETS

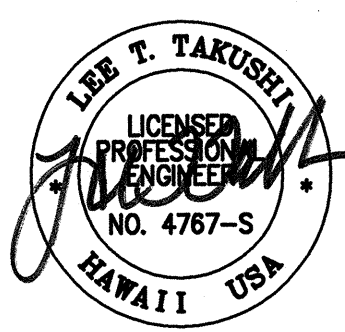
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(44)	1998	24	61



ABUTMENT NO. 2 – NEW CONDITIONS
NORMAL TO GIRDERS ELEVATION
 SCALE: 3/8"=1'-0"

DESIGNED BY	DATE
TRACED BY	" "
DESIGNED BY	" "
QUANTITIES BY	" "
CHECKED BY	" "
NO.	" "

F:\1997\9702000\DWG\DET\97020052.DWG 05/21/98 14:52 JM

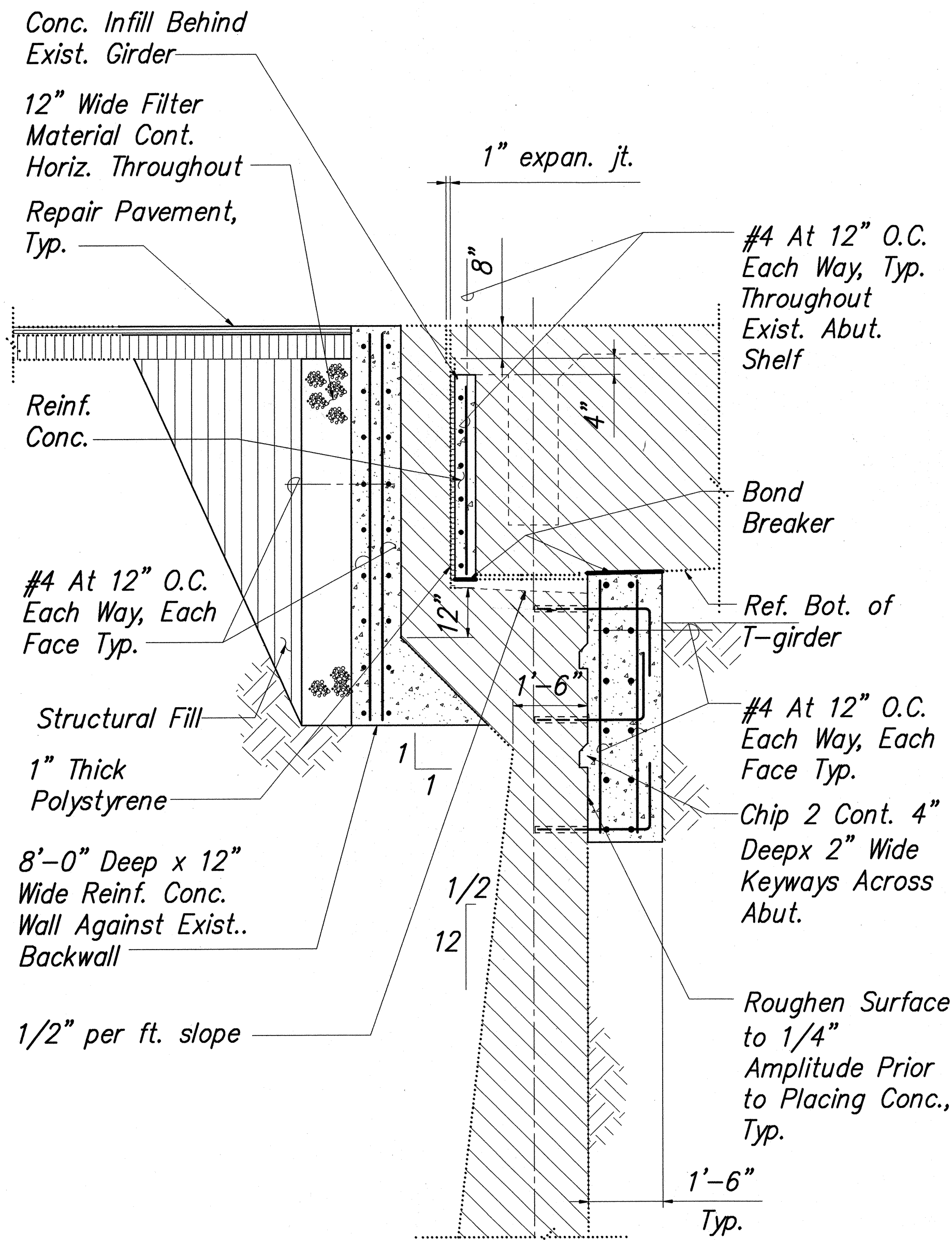


STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

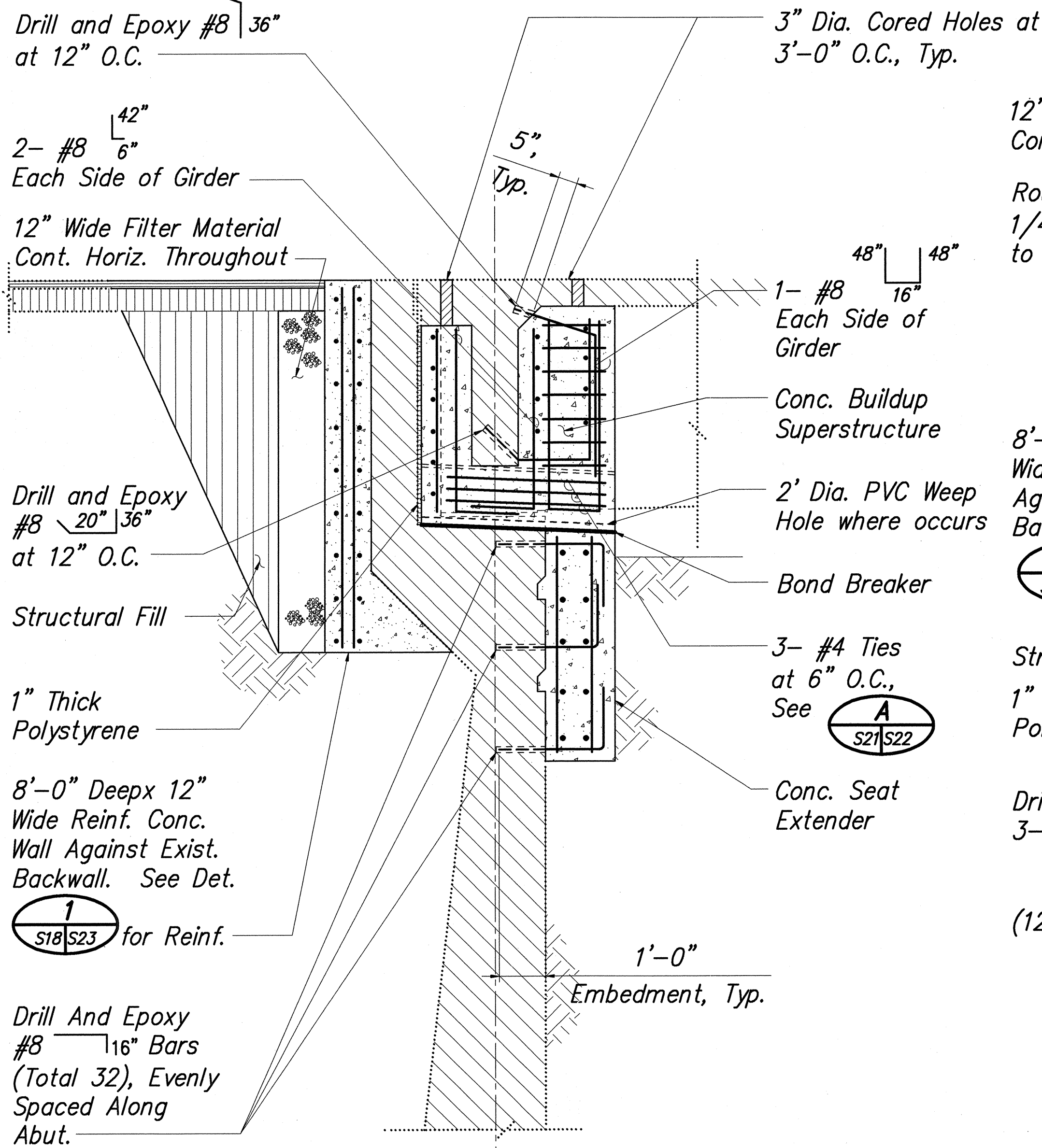
KAIWILAHILAH I BRIDGE
ABUTMENT NO. 2
NEW CONDITIONS ELEVATION

 HAWAII BELT ROAD, SEISMIC RETROFIT OF VARIOUS BRIDGES,
 VICINITY OF LAUPAHOEHOE
 FEDERAL AID PROJECT NO. BR-019-2(44)
 SCALE: AS NOTED DATE: APRIL 1998

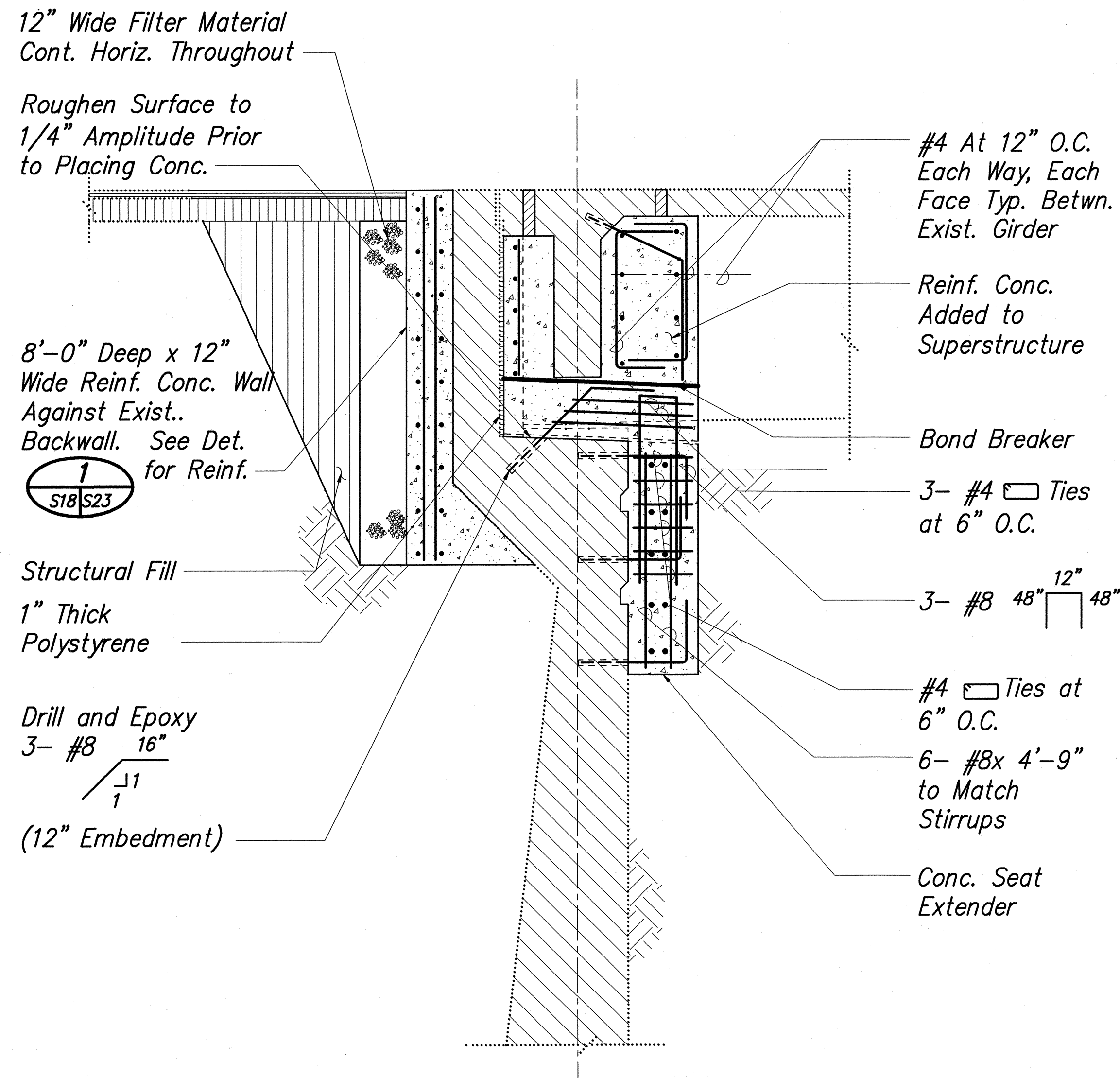
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(44)	1998	26	61



DETAIL AT GIRDER 1
SCALE: 1/2"=1'-0"
S2, S18



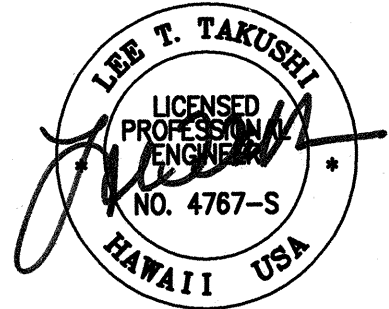
DETAIL AT GIRDER SIDE 2
SCALE: 1/2"=1'-0"
S18, S23



DETAIL AT SHEAR KEY 3
SCALE: 1/2"=1'-0"
S18, S23

SURVEY PLOTTED BY	DATE
DESIGNED BY	" "
QUANTITIES BY	" "
CHECKED BY	" "
ORIGINAL PLAN	No.

1997 97020001.DWG DETAIL 97020007.DWG 05/21/98 14:22 DY



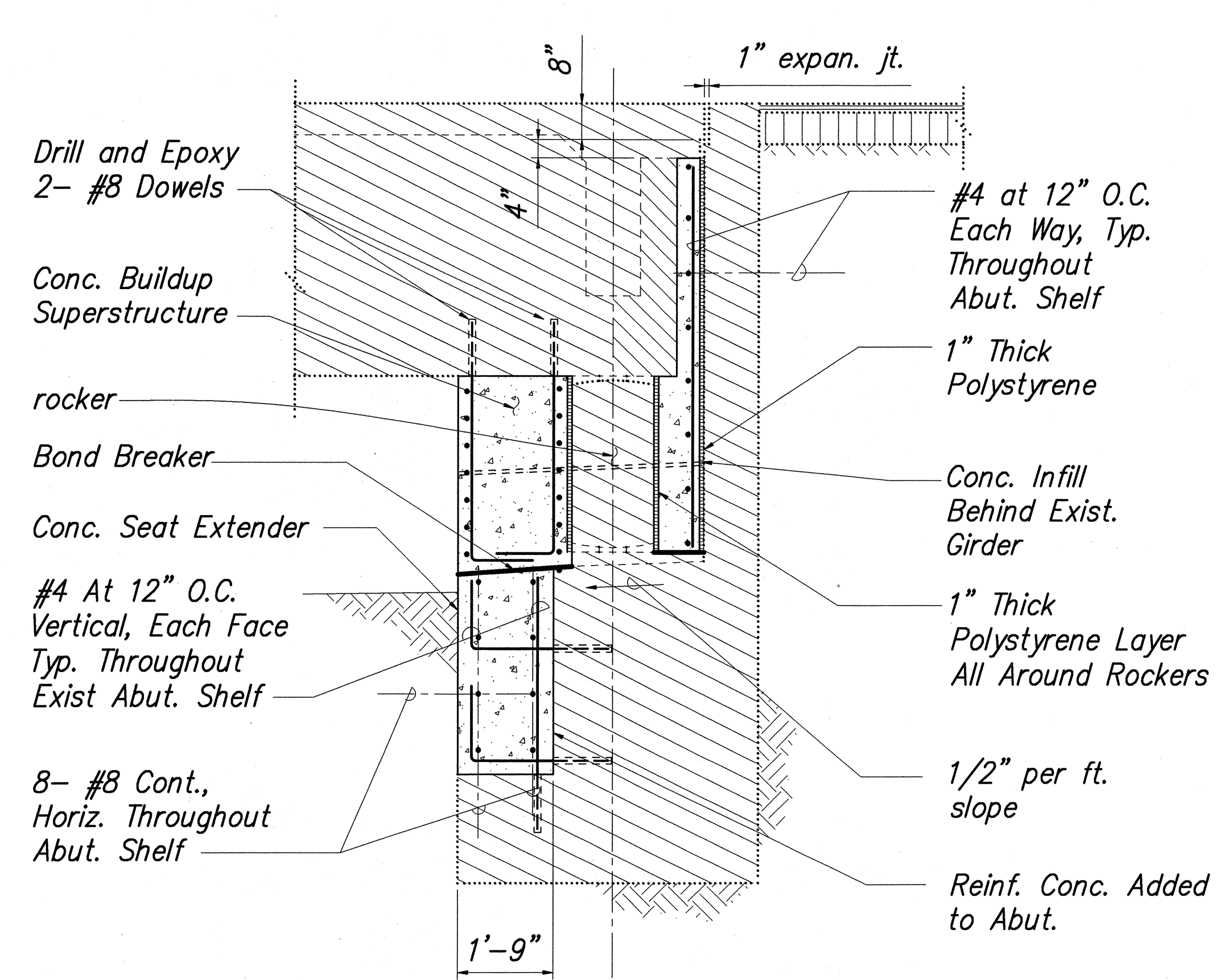
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

KAIWILAHILAHU BRIDGE
ABUTMENT NO. 1
NEW CONDITIONS DETAILS

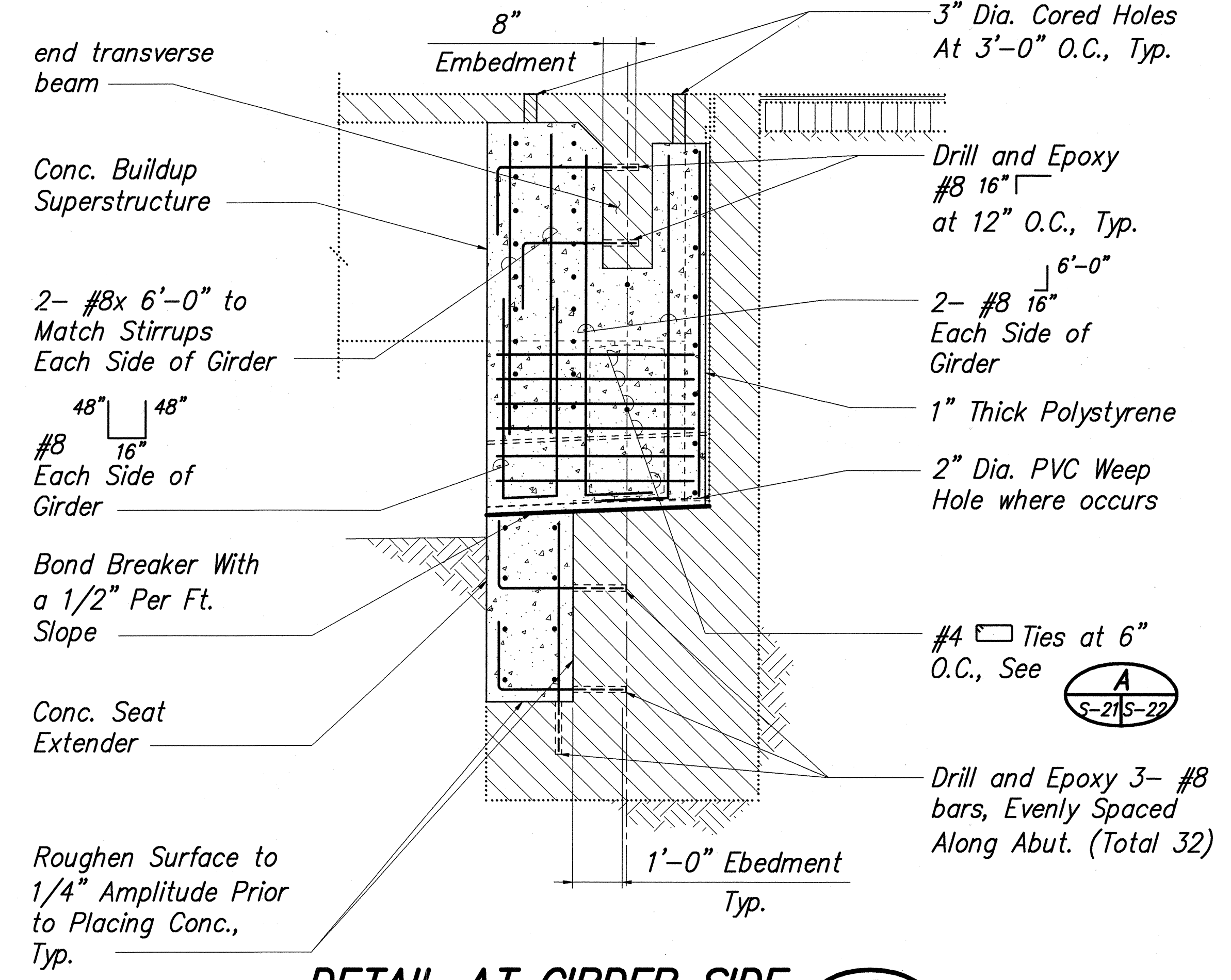
HAWAII BELT ROAD, SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF LAUPAHOEHOE
FEDERAL AID PROJECT NO. BR-019-2(44)
SCALE: AS NOTED
DATE: APRIL 1998

SHEET No. S23 OF 58 SHEETS

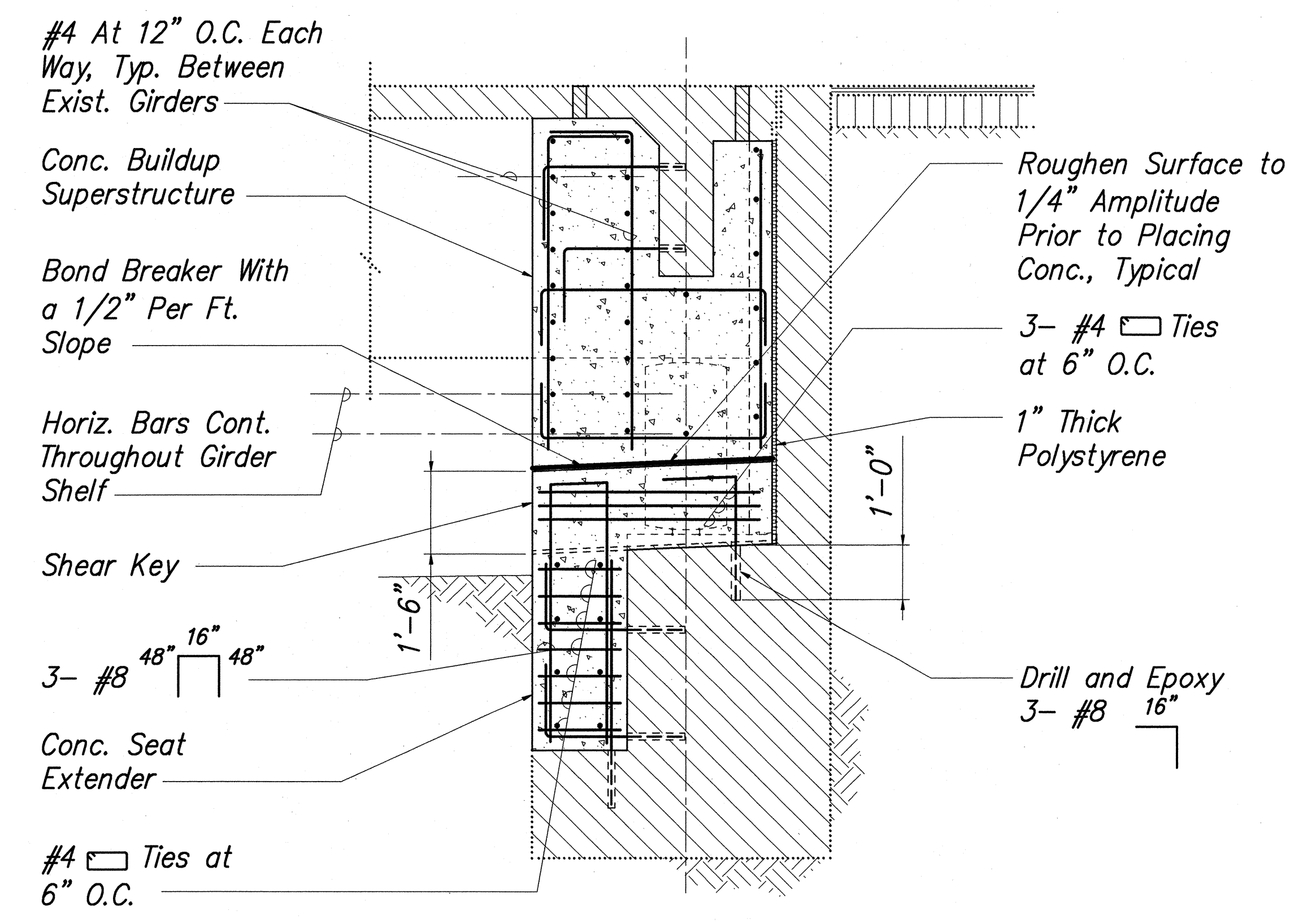
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(44)	1998	27	61



DETAIL AT ROCKER
SCALE: 1/2"=1'-0"



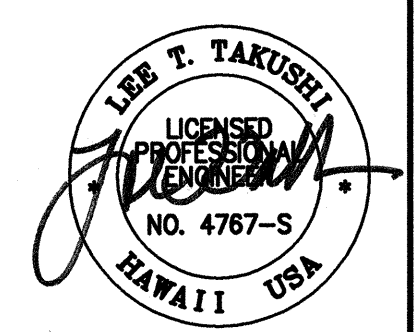
DETAIL AT GIRDER SIDE
SCALE: 1/2"=1'-0"



DETAIL AT SHEAR KEY
SCALE: 1/2"=1'-0"

- Note:**
1. Items marked typical are applicable along entire that abutment.
 2. Provide 40" min. lap splice length for all #8 bars this sheet.

ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTED BY
QUANTITIES BY
NO.
1/1997/9702000\DWG\DET\9702026.DWG 05/21/98 14:25 DY
MAY 26 1998



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KAIWILAHILAHI BRIDGE
ABUTMENT NO. 2
NEW CONDITIONS DETAILS**

HAWAII BELT ROAD, SEISMIC RETROFIT OF VARIOUS BRIDGES,
VICINITY OF LAUPAHOEHOE
FEDERAL AID PROJECT NO. BR-019-2(44)
SCALE: AS NOTED
DATE: APRIL 1998

SHEET No. S24 OF 58 SHEETS