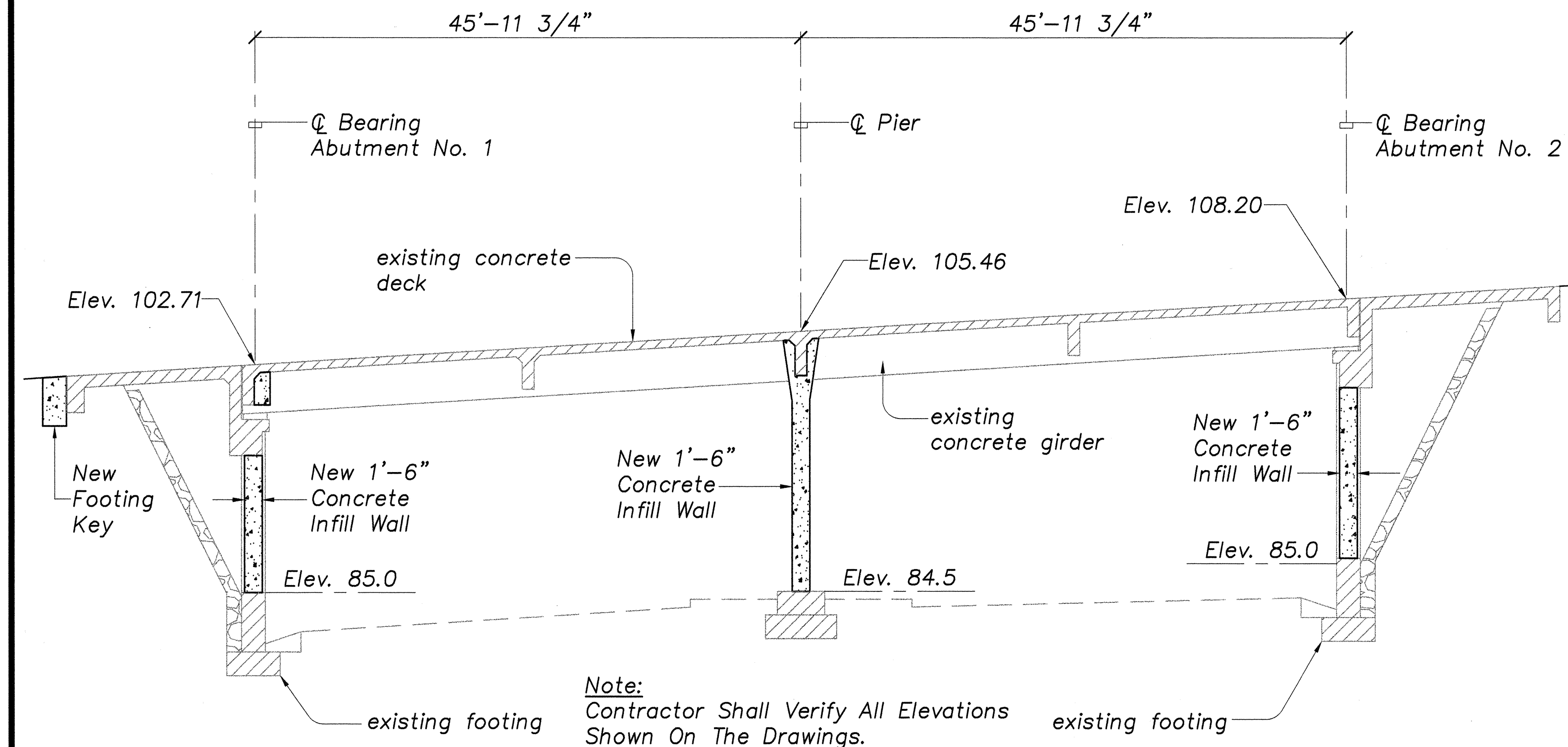
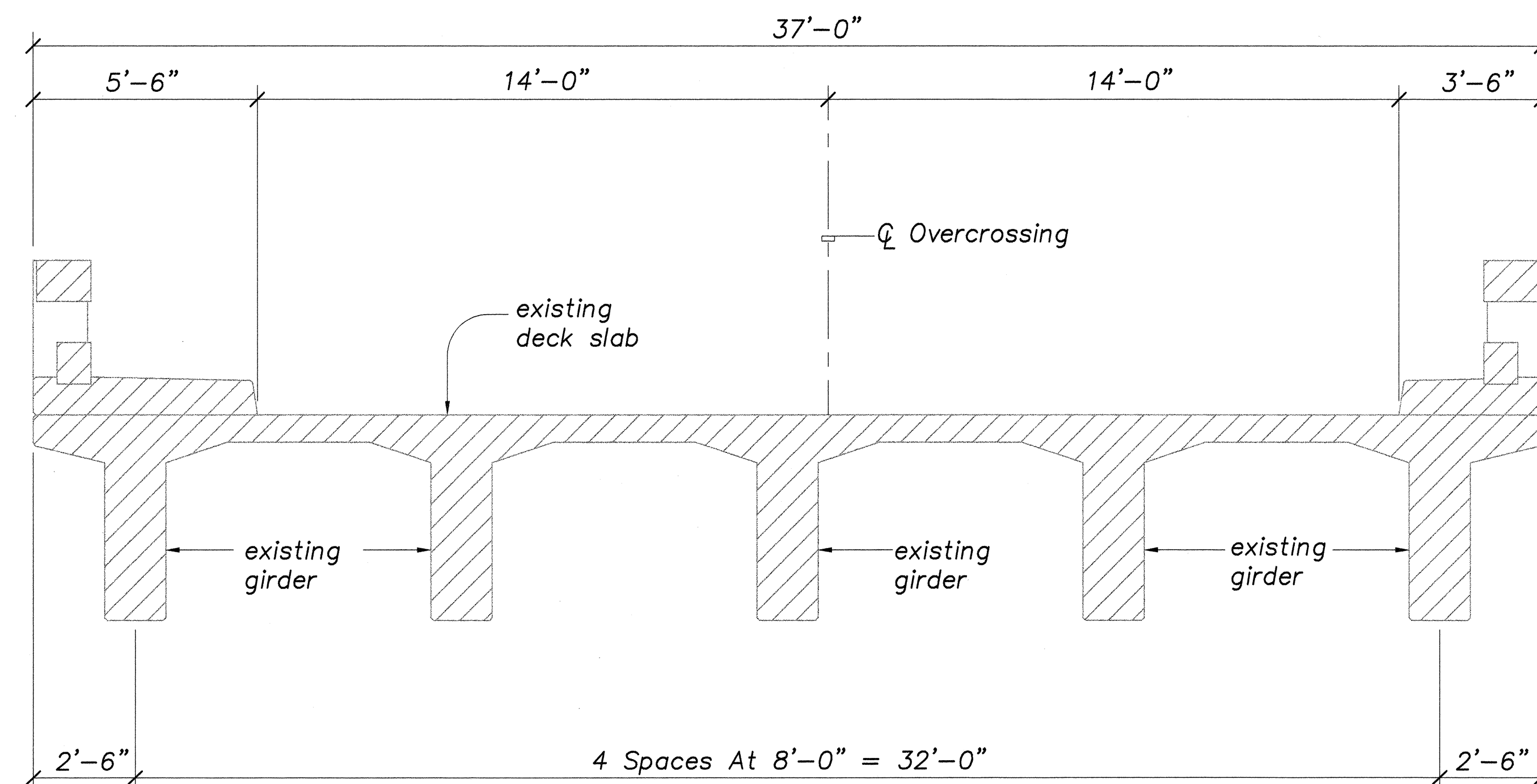


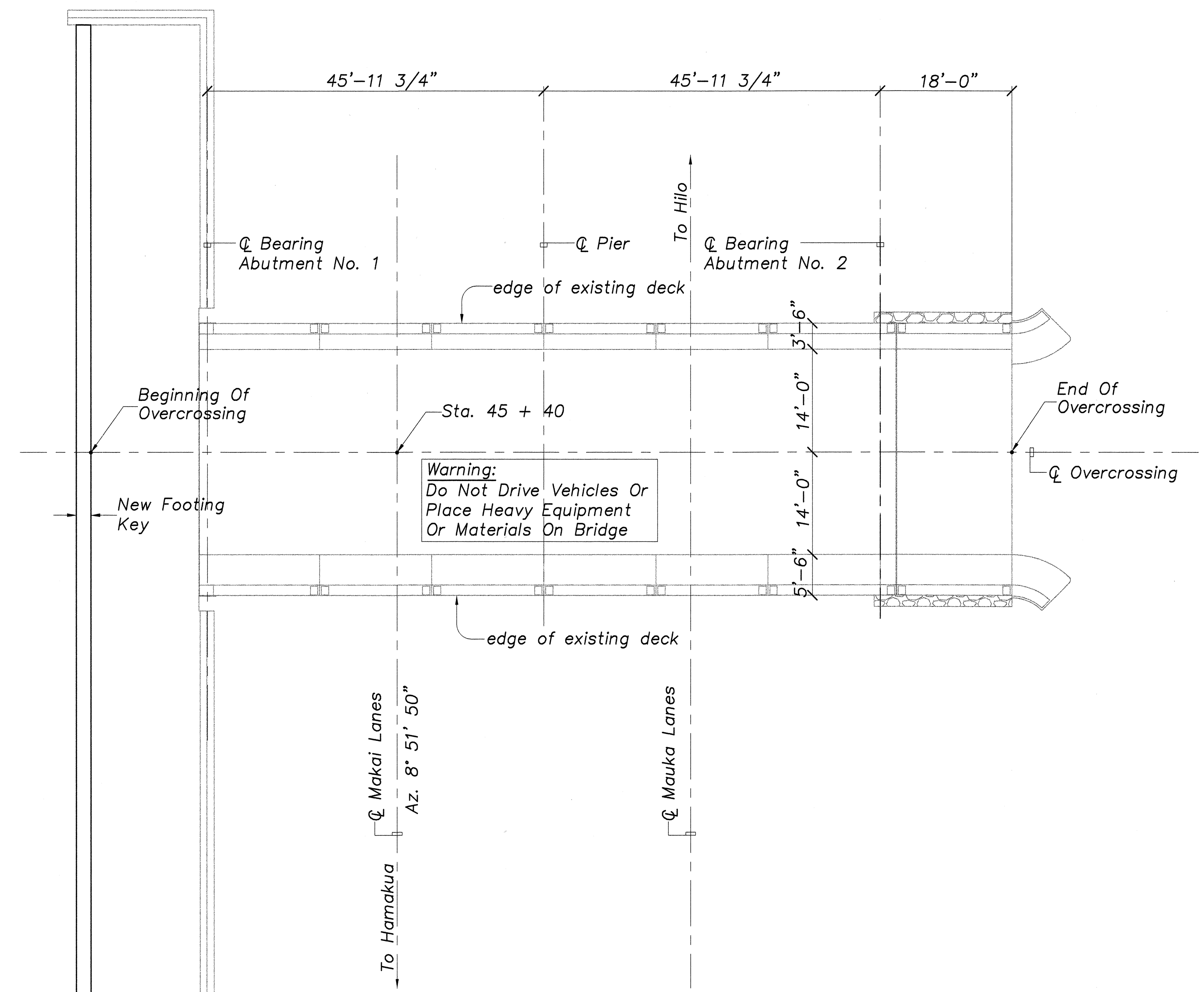
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(42)	1999	25	38



SECTION ALONG BRIDGE CENTERLINE
Scale: 1/8"=1'-0"



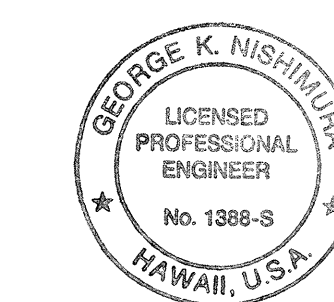
TYPICAL DECK SECTION
Scale: 3/8"=1'-0"



BRIDGE LAYOUT PLAN
Scale: 1"=10'-0"

Note:

- Existing Top Reinforcing Steel Bars In Bridge Deck Are Exposed. Retrofit Work Does Not Include Repairing This Condition.
- Retrofit Work Does Not Allow Existing Bridge To Be Used For Vehicular Traffic After Work Is Completed.
- The Contractor Shall Not Drive Any Vehicle Or Place Heavy Equipment Or Materials On The Existing Bridge.

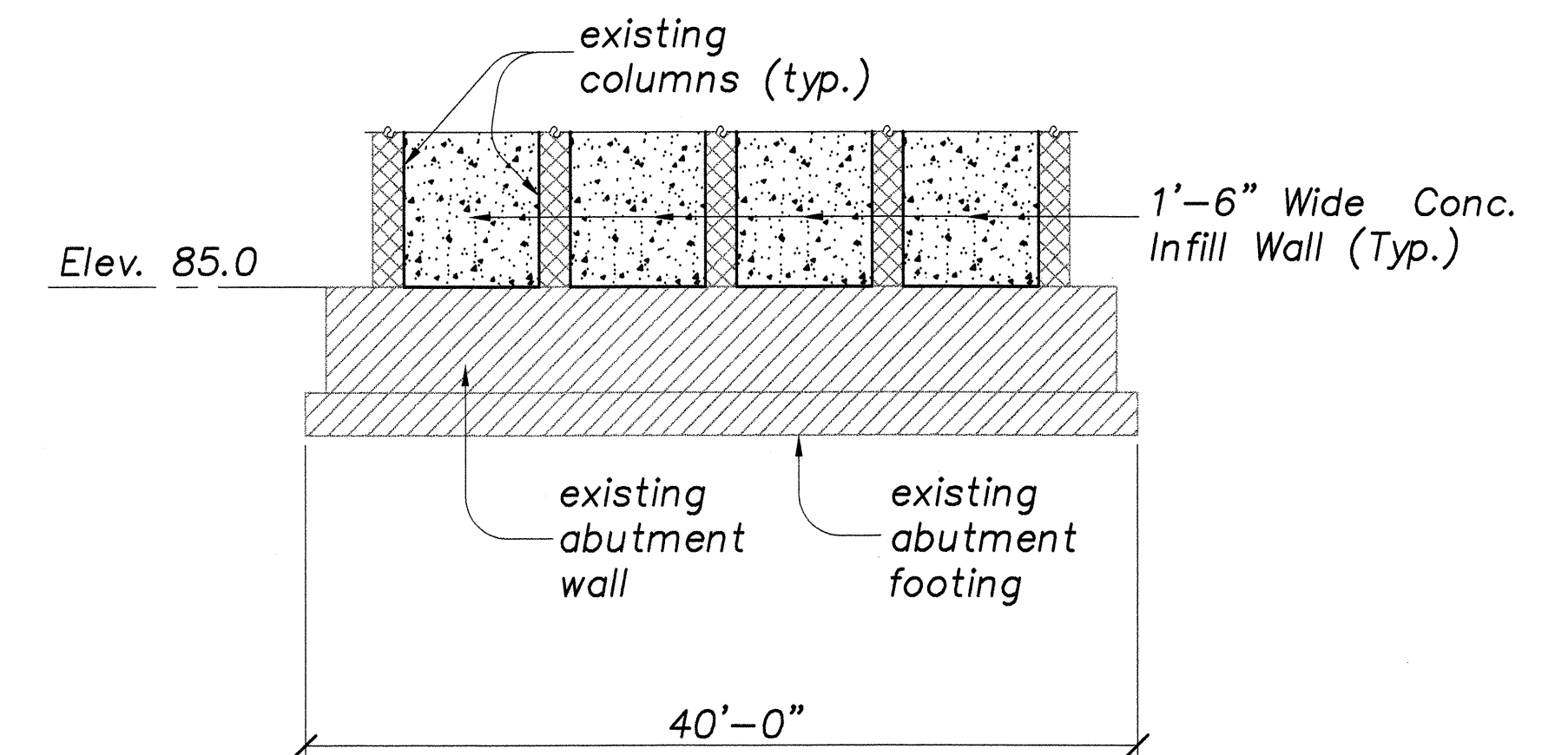


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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
HILO PLANTATION ROAD OVERPASS
BRIDGE LAYOUT PLAN AND
BRIDGE SECTIONS
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF HILO
Federal Aid Project No. BR-019-2(42)
SCALE: AS NOTED
DATE: APRIL 1998
SHEET No. S-4.1 OF 38 SHEETS

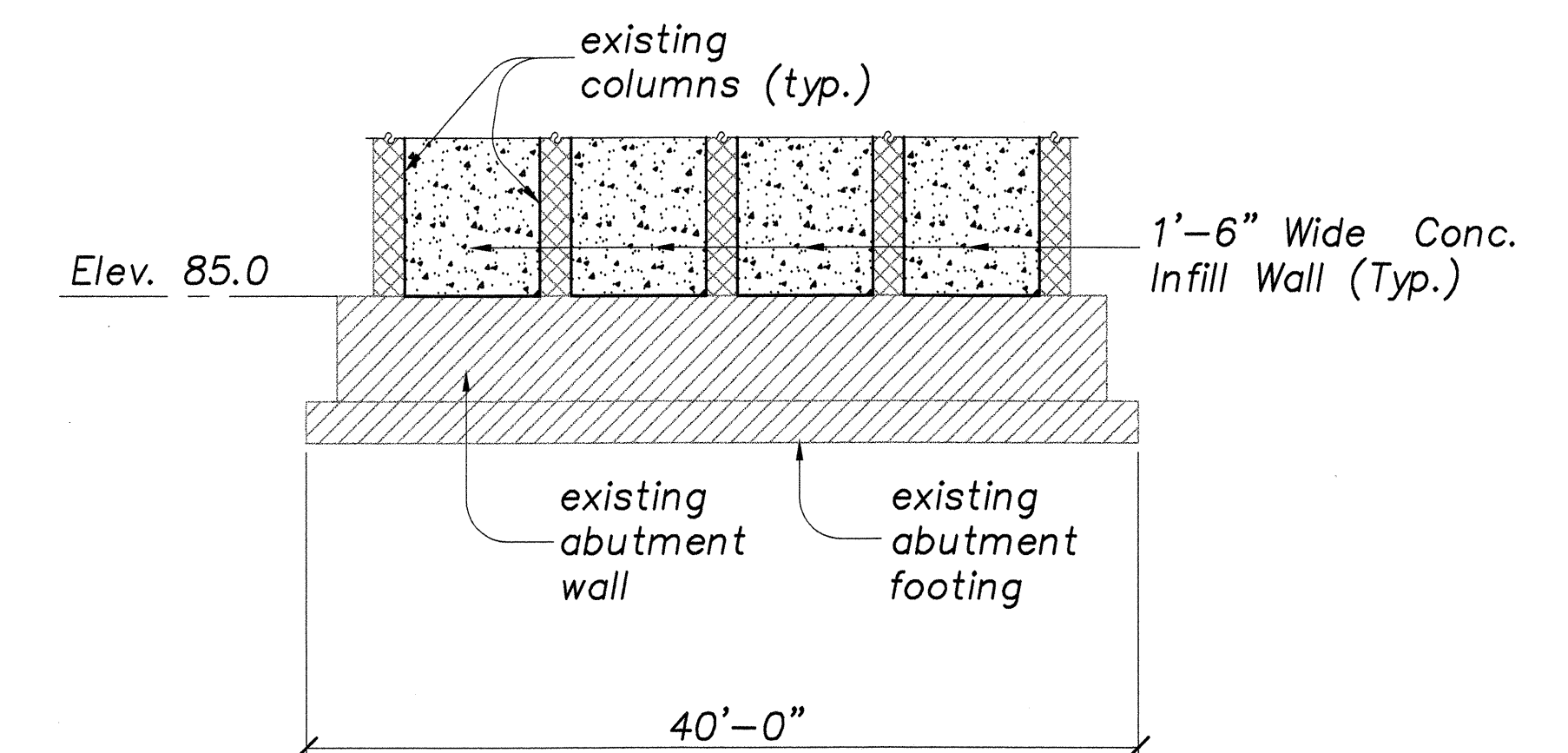
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	No.
NOTE BOOK	No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(42)	1999	26	38



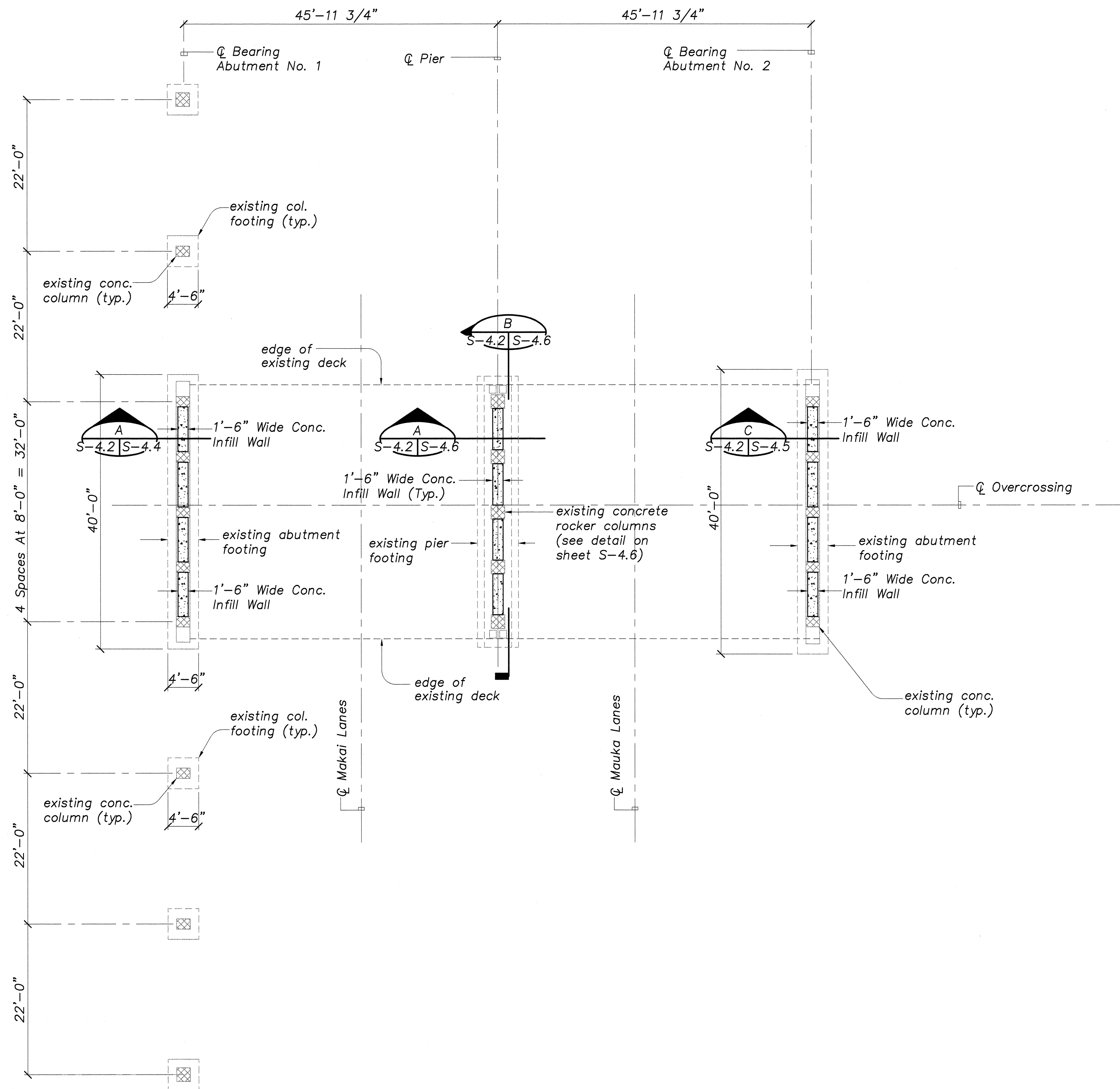
ABUTMENT NO. 1 FOOTING ELEVATION

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



ABUTMENT NO. 2 FOOTING ELEVATION

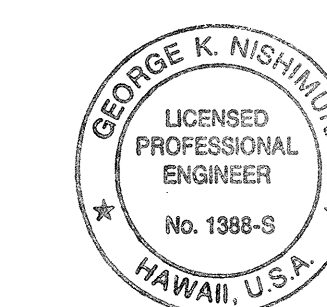
Scale: 1/8"=1'-0"



BRIDGE FOUNDATION PLAN

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

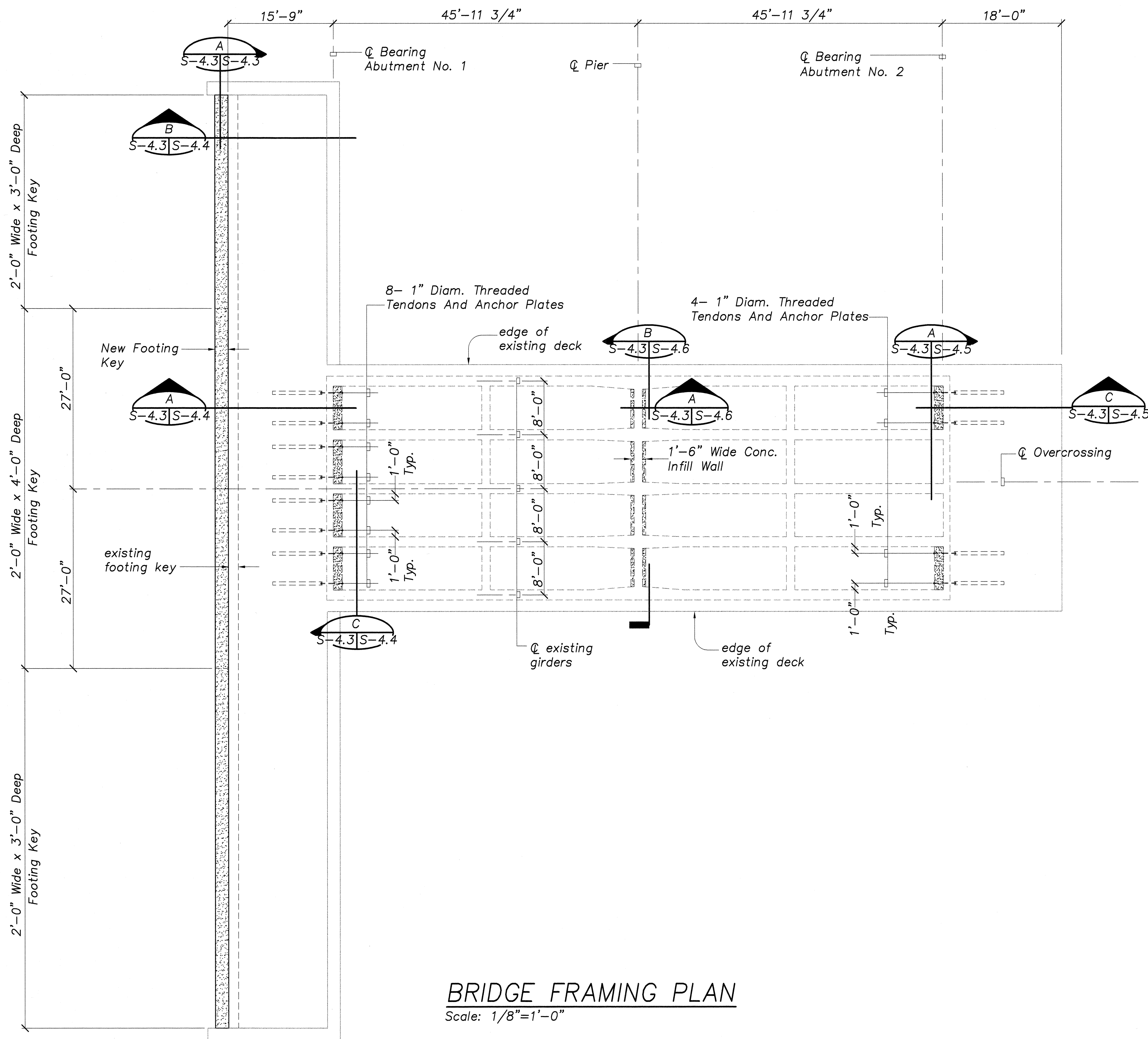
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTED BY	DRAWN BY	
CHECKED BY	TRACED BY	
NO.	QUANTITIES BY	



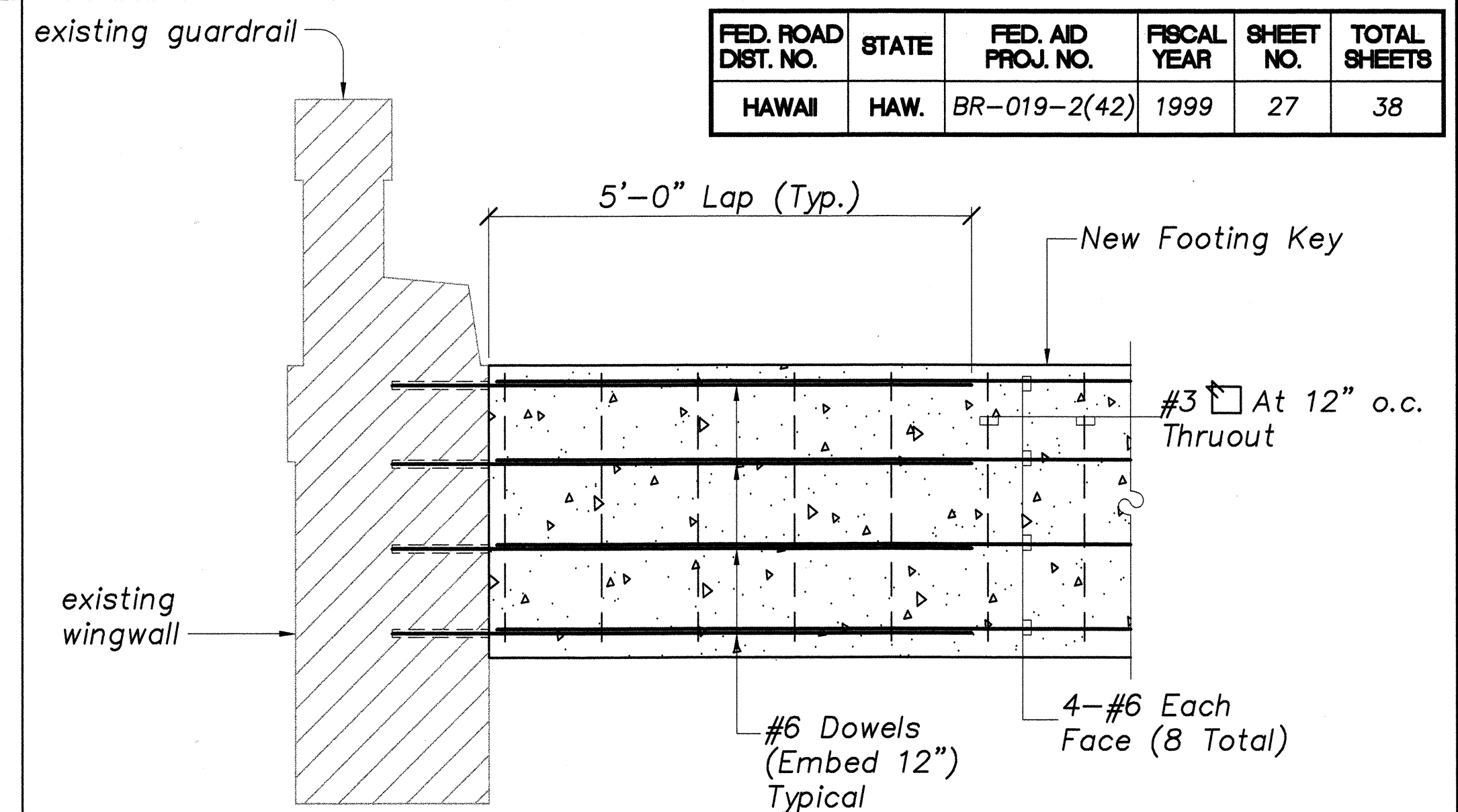
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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HILO PLANTATION ROAD OVERPASS
BRIDGE FOUNDATION PLAN AND
ABUTMENT ELEVATIONS**
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF HILO
Federal Aid Project No. BR-019-2(42)
SCALE: AS NOTED DATE: APRIL 1998
SHEET No. S-4.2 OF 38 SHEETS

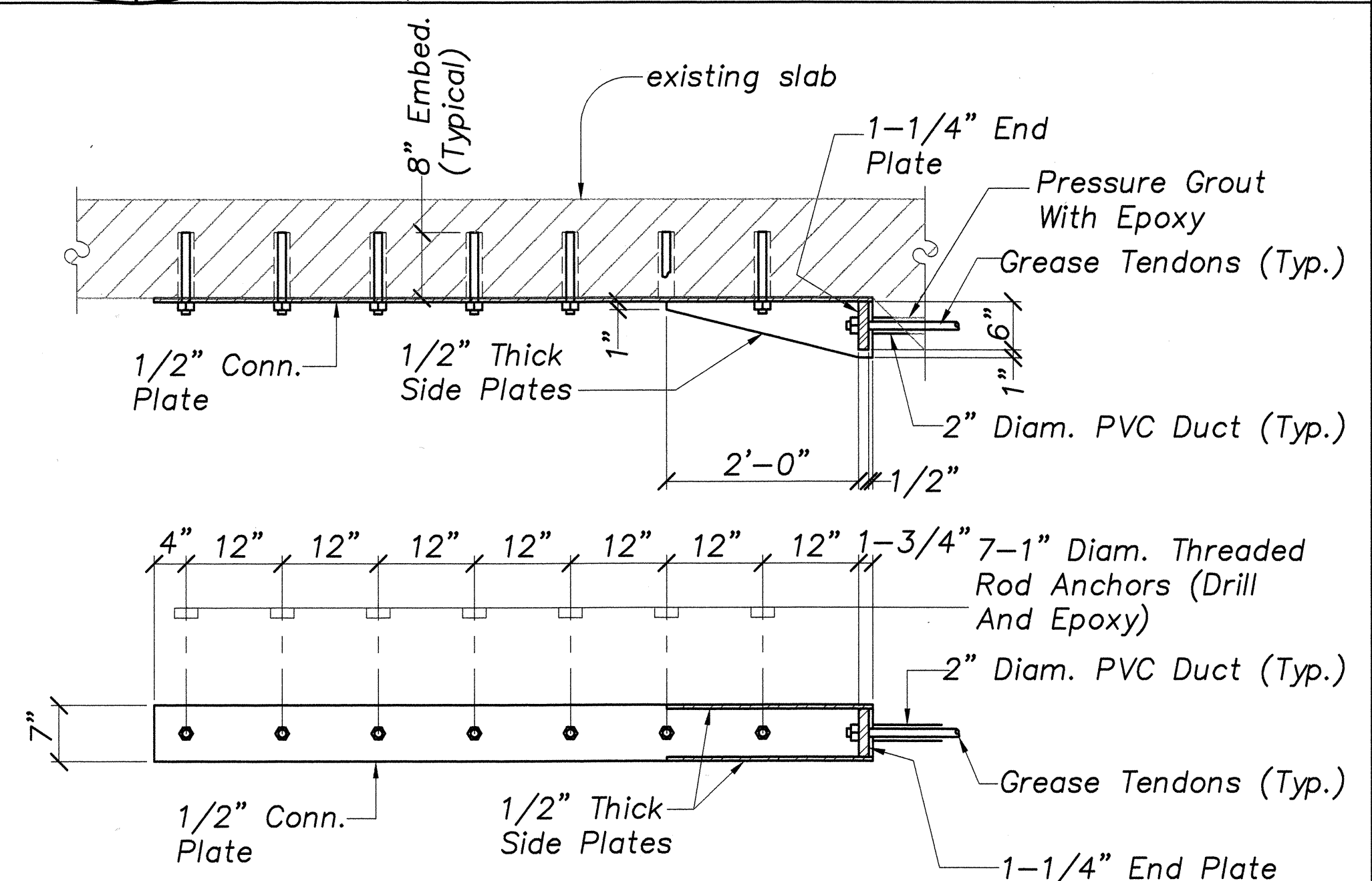
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. 1	DRAWN BY	
	TRACED BY	
	QUANTITIES BY	
	CHECKED BY	



BRIDGE FRAMING PLAN
Scale: 1/8"=1'-0"



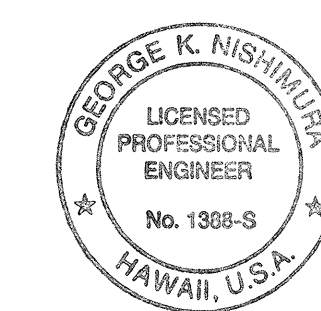
SECTION
Scale: 3/4"=1'-0"



NOTES:

1. AT ABUTMENT NO. 2, ANCHORS FOR THREADED TENDONS SHALL BE BACKED OFF 1/2" TO ALLOW MOVEMENT OF EXISTING SLIDING PLATES.
2. TACK WELD ALL NUTS OR BOLTS TO TENDONS AFTER INSTALLATION COMPLETE.
3. WHERE TENDONS PASS THROUGH EXISTING DIAPHRAGMS AND ABUTMENT WALLS, ALL HOLES SHALL BE PRESSURE GROUTED WITH EPOXY.
4. ALL EXPOSED PORTIONS OF THE THREADED TENDONS SHALL BE GREASED AND ENCASED WITH A 2 INCH DIAMETER PVC DUCT. ALL JOINTS IN THE PVC DUCTS SHALL BE SEALED WATER TIGHT.

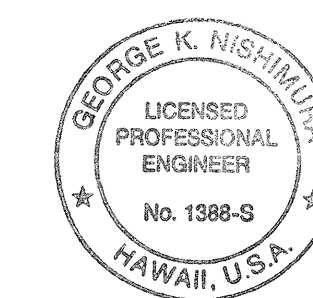
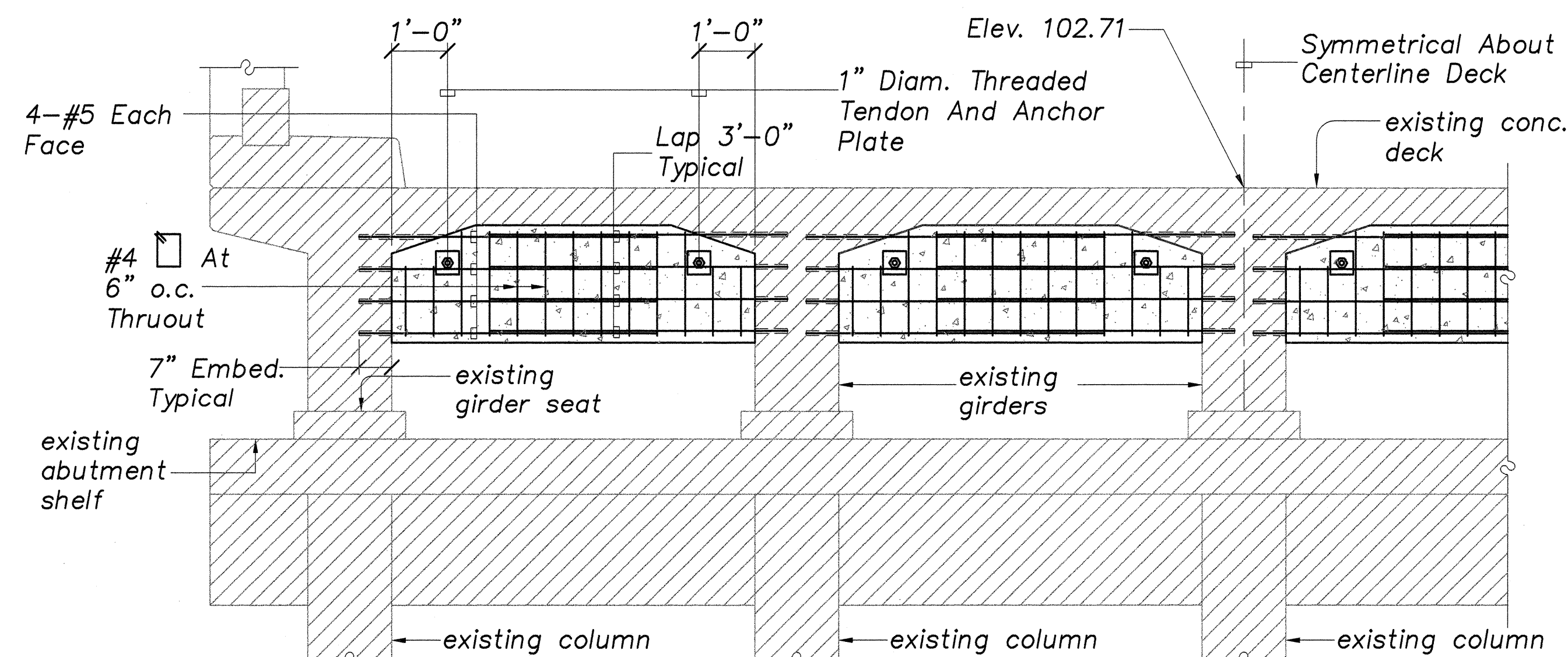
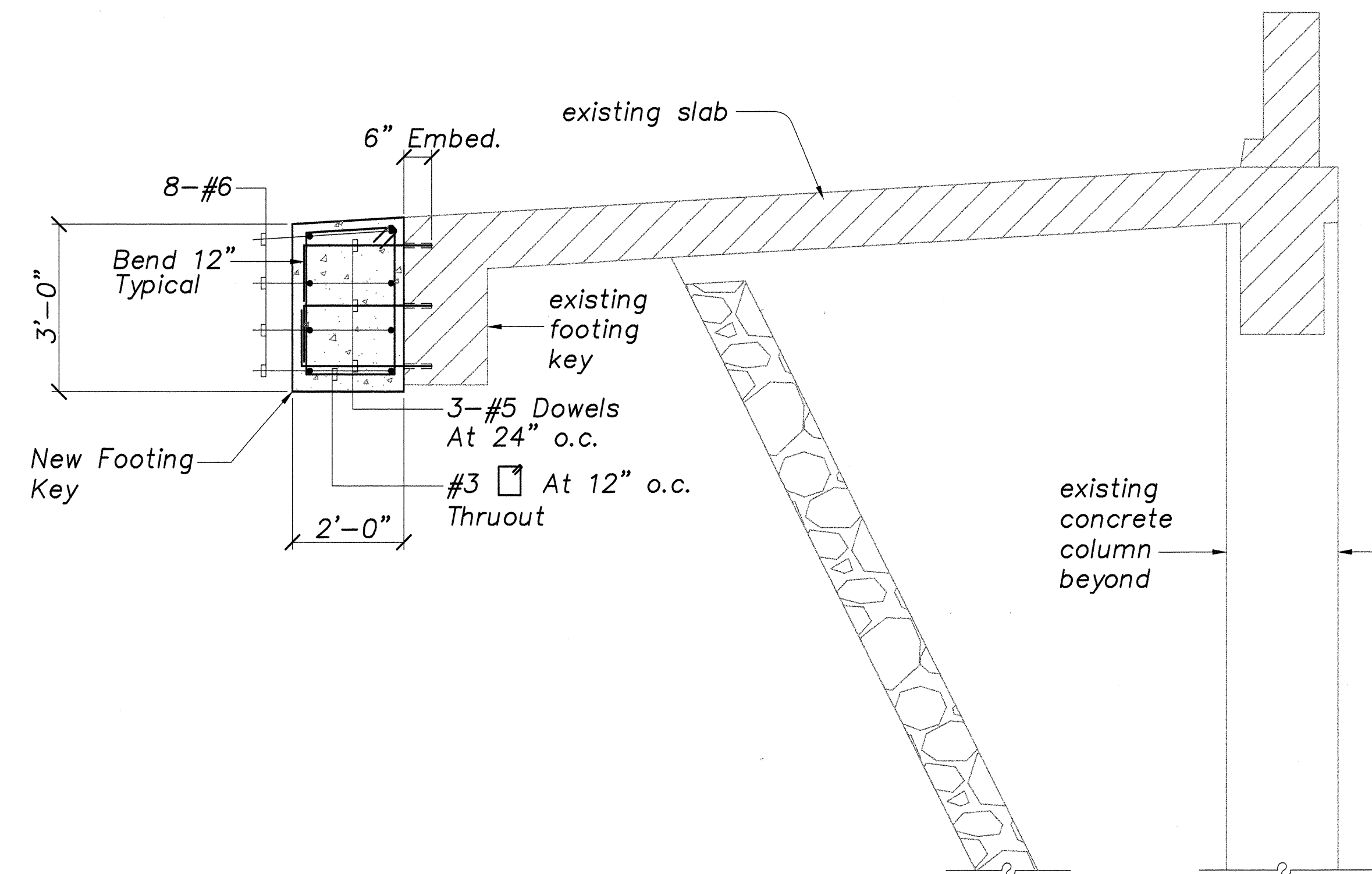
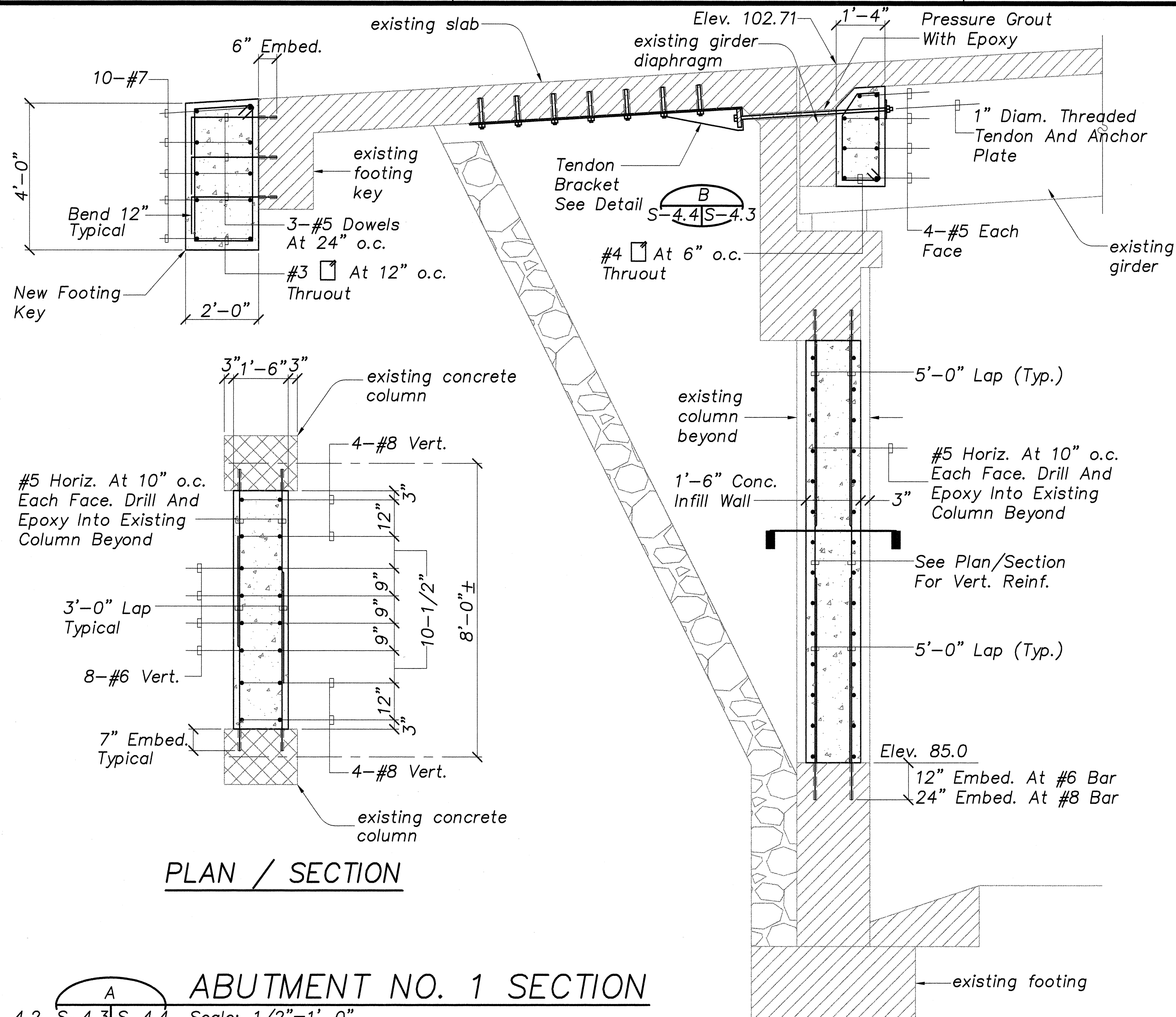
TENDON BRACKET DETAIL
Scale: 3/4"=1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HILO PLANTATION ROAD OVERPASS
BRIDGE FRAMING PLAN, DETAILS
AND SECTIONS
HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF HILO
Federal Aid Project No. BR-019-2(42)
SCALE: AS NOTED DATE: APRIL 1998
SHEET No. S-4.3 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(42)	1999	28	38



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 [Signature]

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
**HILO PLANTATION ROAD OVERPASS
 ABUTMENT NO. 1 SECTIONS**

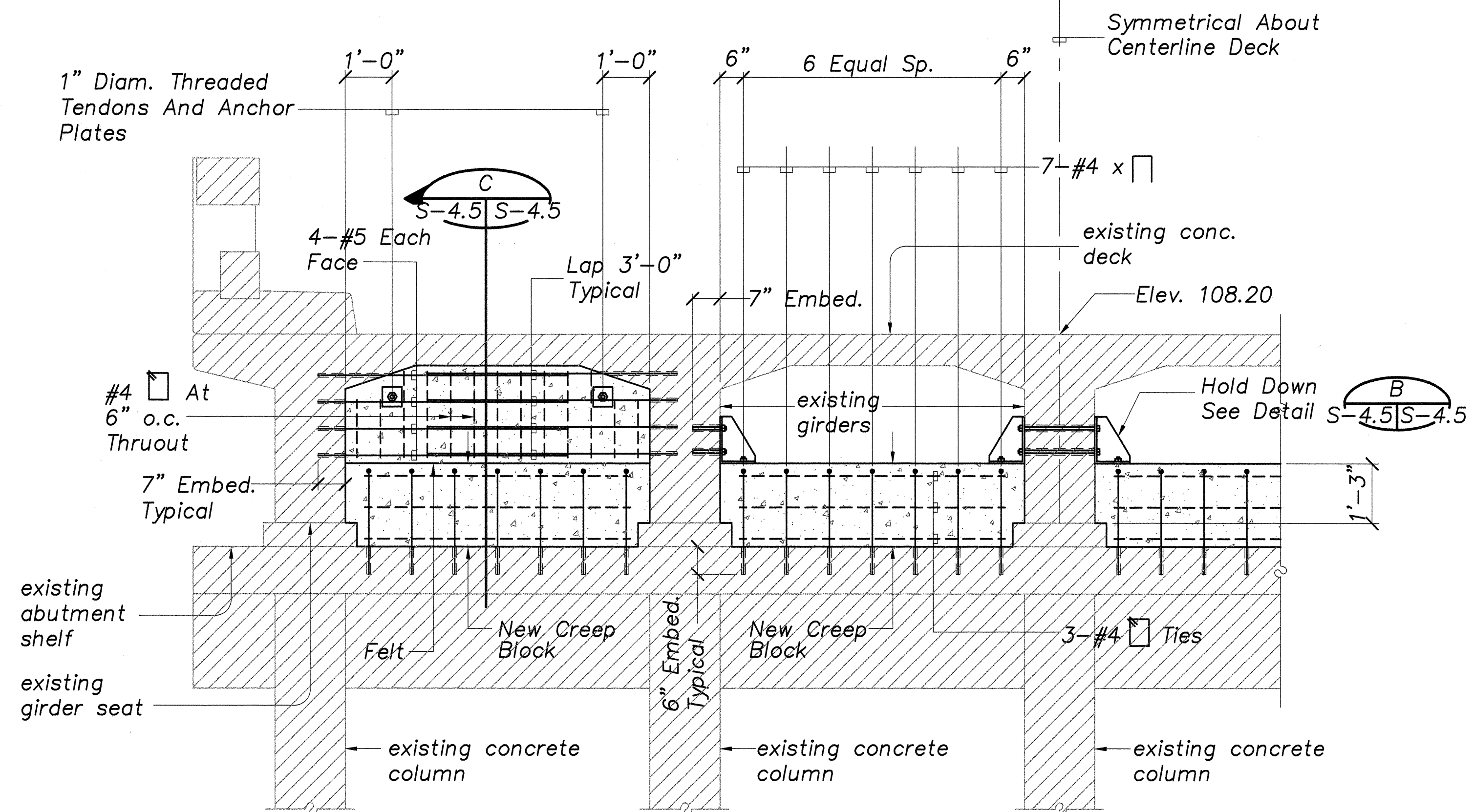
HAWAII BELT ROAD
 SEISMIC RETROFIT OF VARIOUS BRIDGES
 VICINITY OF HILO
 Federal Aid Project No. BR-019-2(42)

SCALE: AS NOTED DATE: APRIL 1998

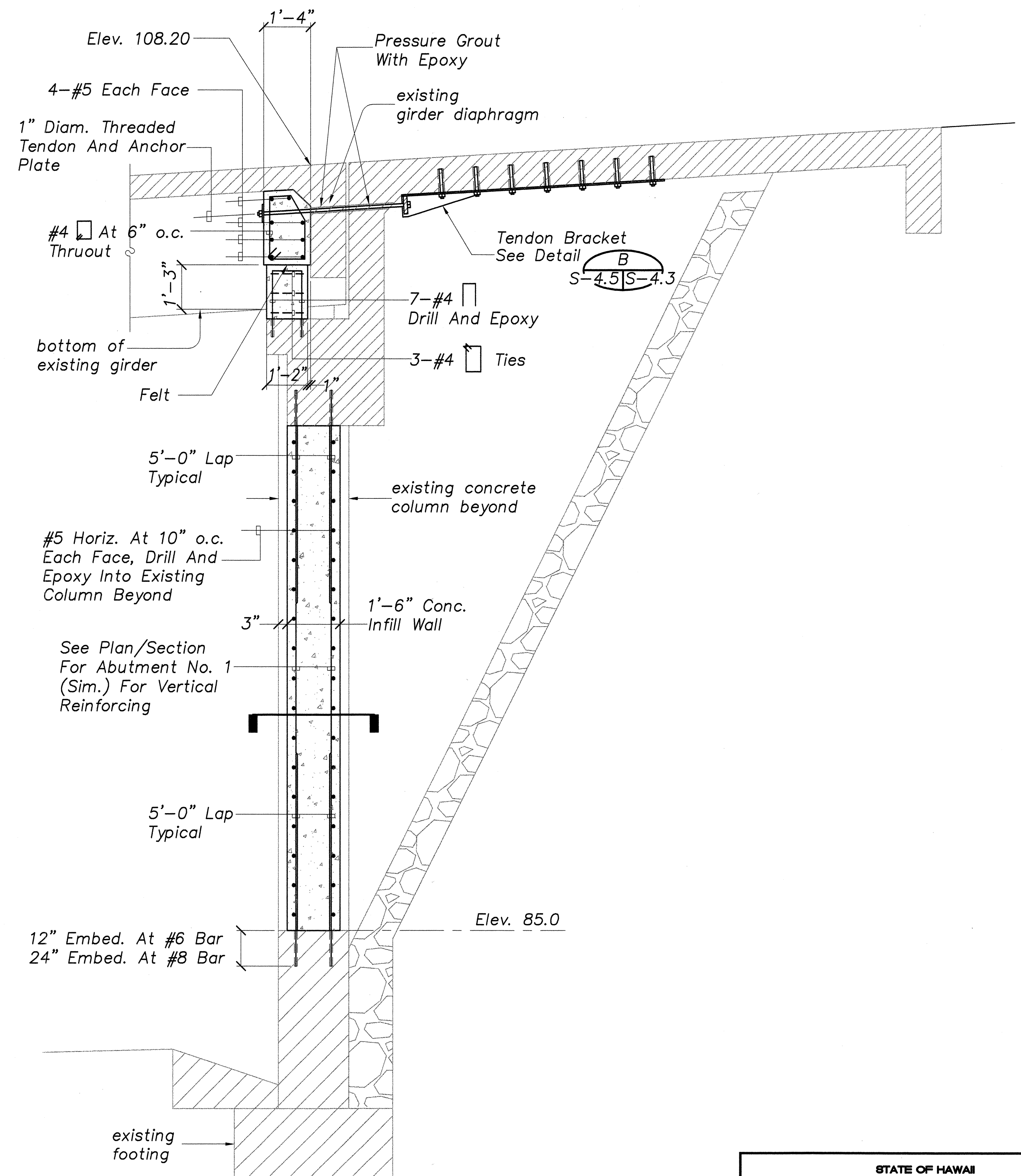
SHEET No. S-4.4 OF 38 SHEETS

DATE	_____
SURVEY PLOTTED BY	_____
ORIGINAL PLAN	_____
TRACED BY	_____
NOTES BY	_____
CHECKED BY	_____
NO.	_____

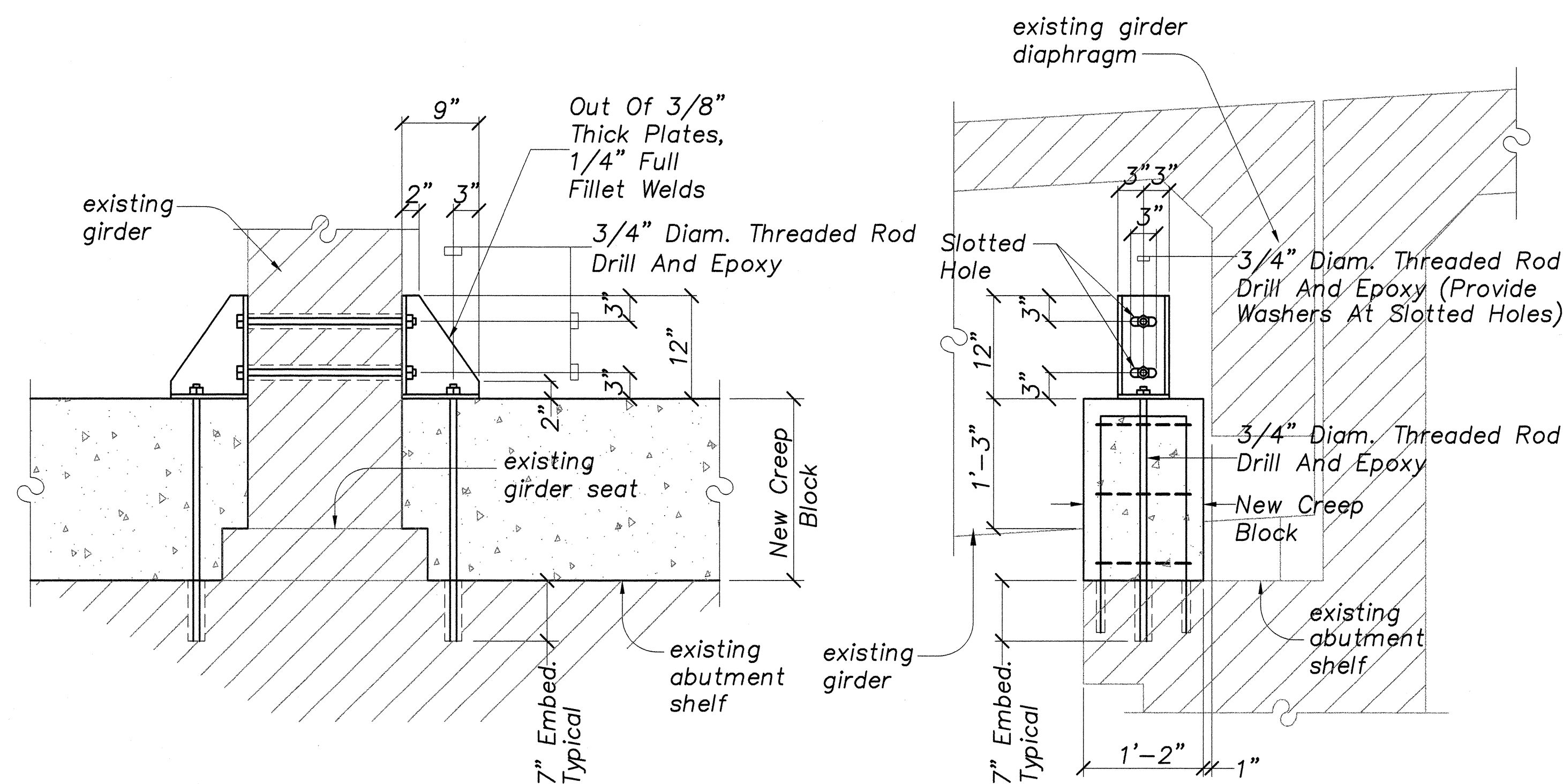
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(42)	1999	29	38



ABUTMENT NO. 2 SECTION
Scale: 1/2"=1'-0"



ABUTMENT NO. 2 SECTION
Scale: 1/2"=1'-0"

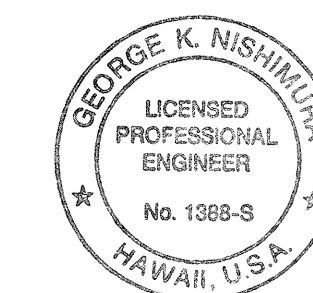


ELEVATION

SECTION

Note:
Tack Weld All Nuts To Rods After
Installation Complete.

HOLD DOWN DETAIL
Scale: 1"=1'-0"

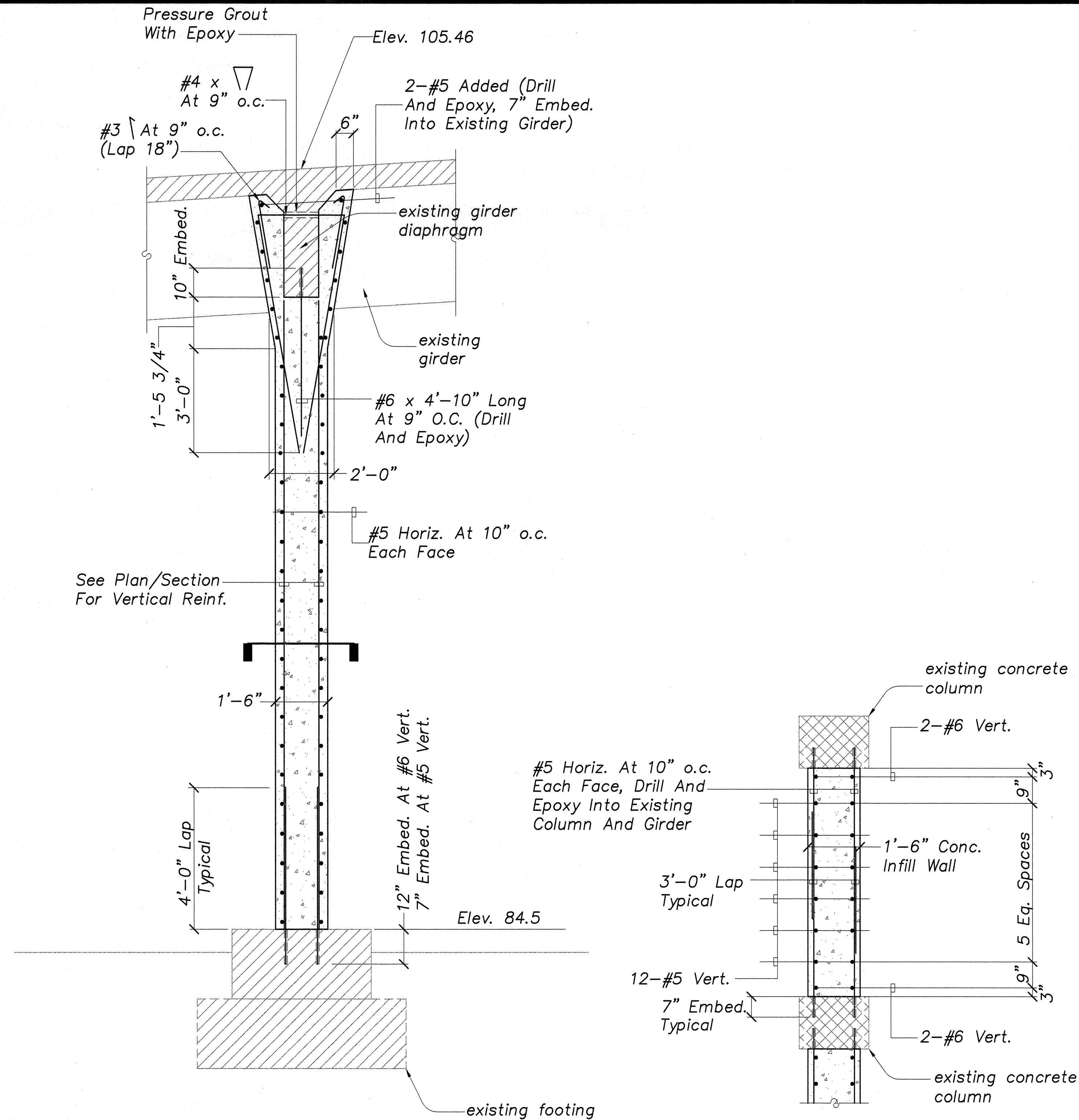


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**HILO PLANTATION ROAD OVERPASS
ABUTMENT NO. 2 SECTIONS**

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF HILO
Federal Aid Project No. BR-019-2(42)

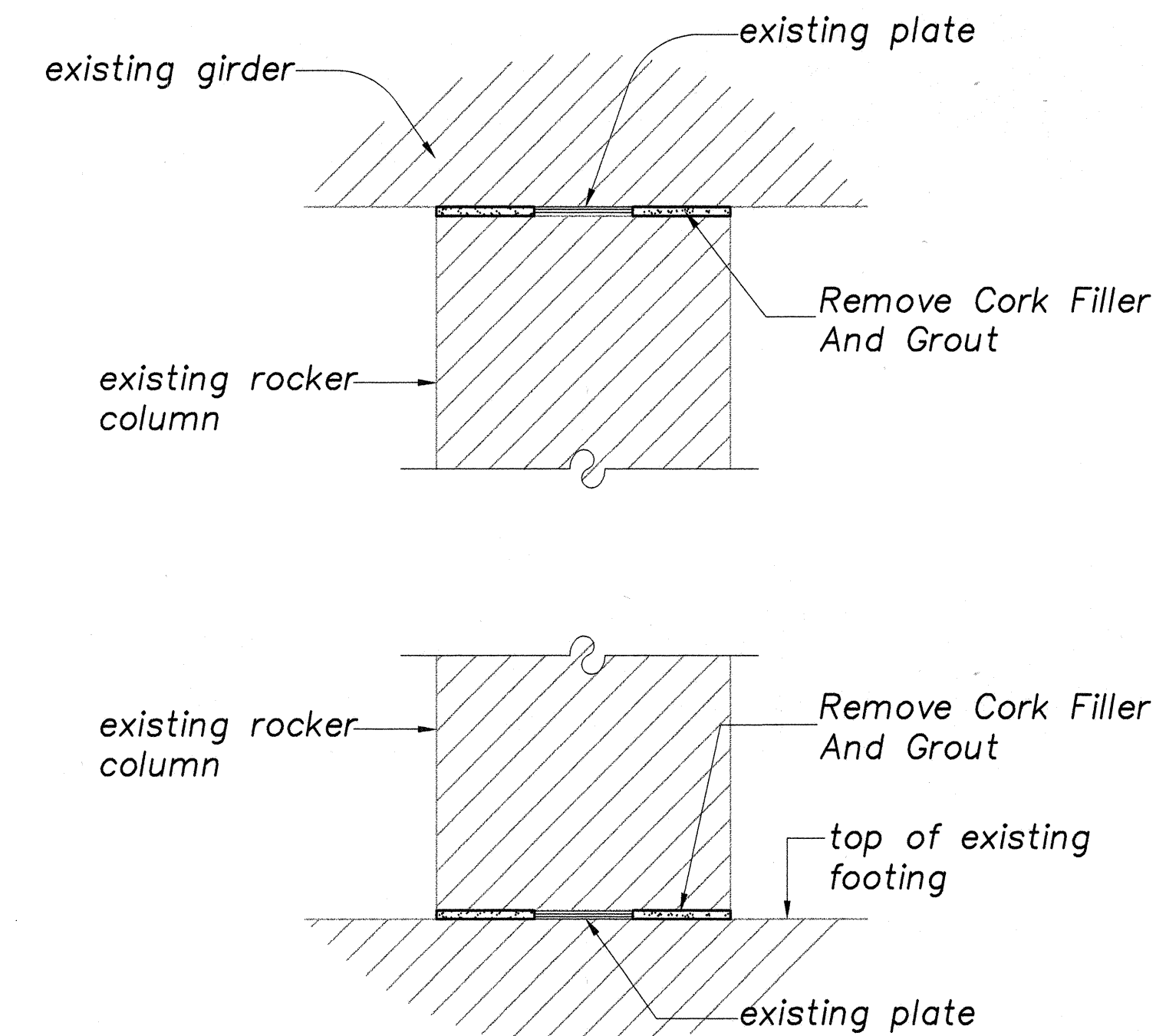
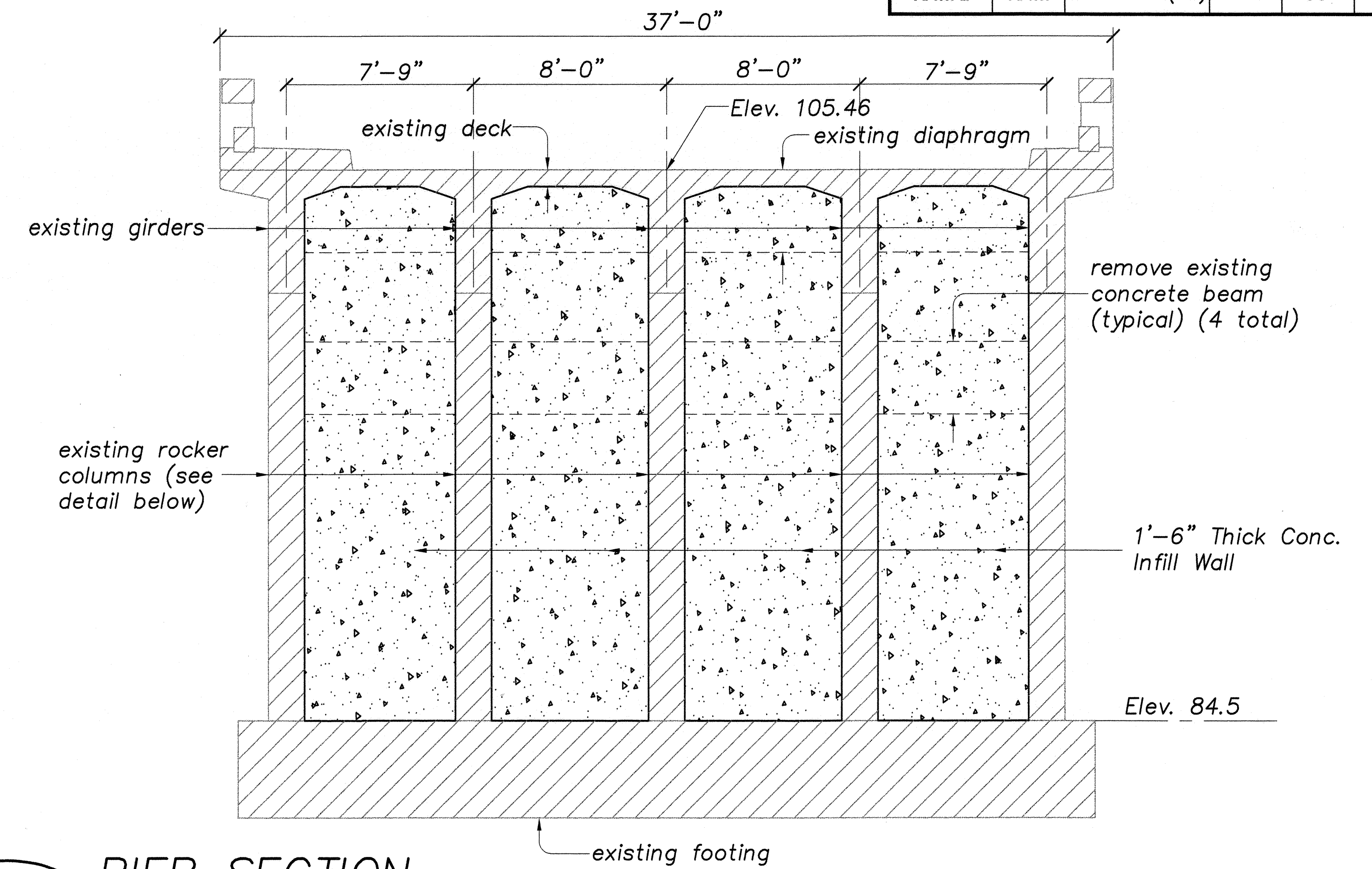
SCALE: AS NOTED DATE: APRIL 1998
SHEET No. S-4.5 OF 38 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	BR-019-2(42)	1999	30	38

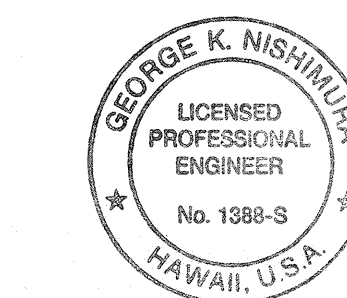


PLAN / SECTION

PIER SECTION
S-4.2, S-4.3, S-4.6 Scale: 1/4"=1'-0"



COLUMN ROCKER DETAIL
Scale: 1"=1'-0"



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STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HILO PLANTATION ROAD OVERPASS
PIER DETAILS

HAWAII BELT ROAD
SEISMIC RETROFIT OF VARIOUS BRIDGES
VICINITY OF HILO
Federal Aid Project No. BR-019-2(42)

SCALE: AS NOTED DATE: APRIL 1998

SHEET No. S-4.6 OF 38 SHEETS

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

PIER SECTION
S-4.2, S-4.3, S-4.6 Scale: 1/2"=1'-0"