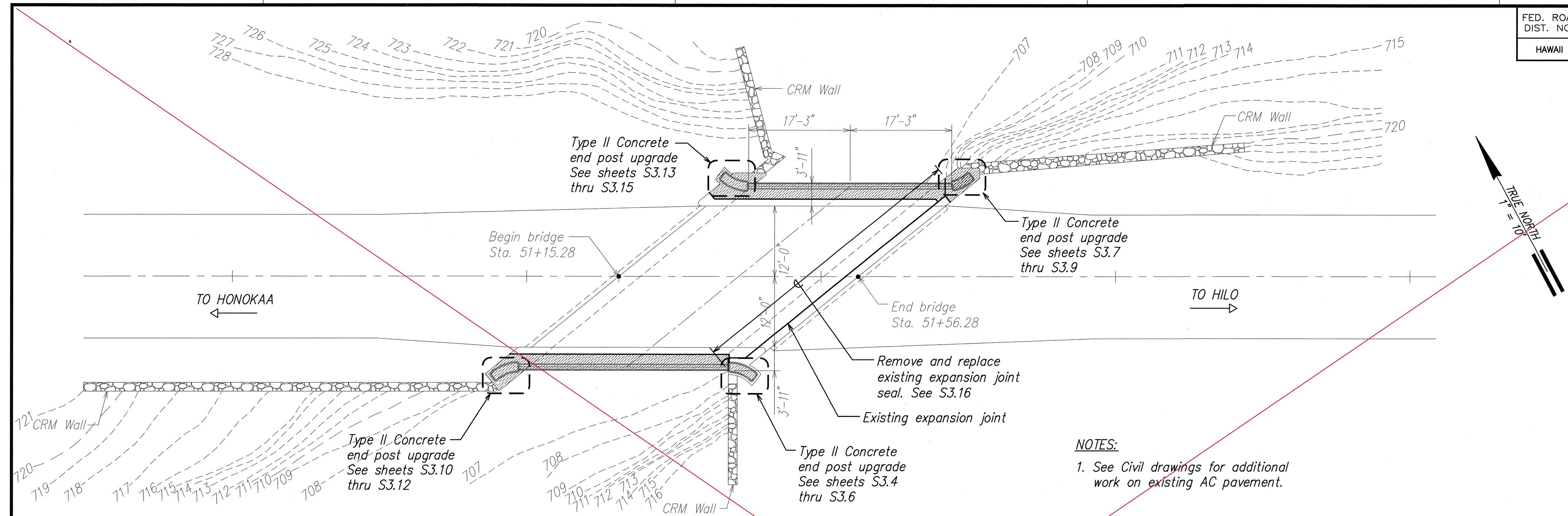
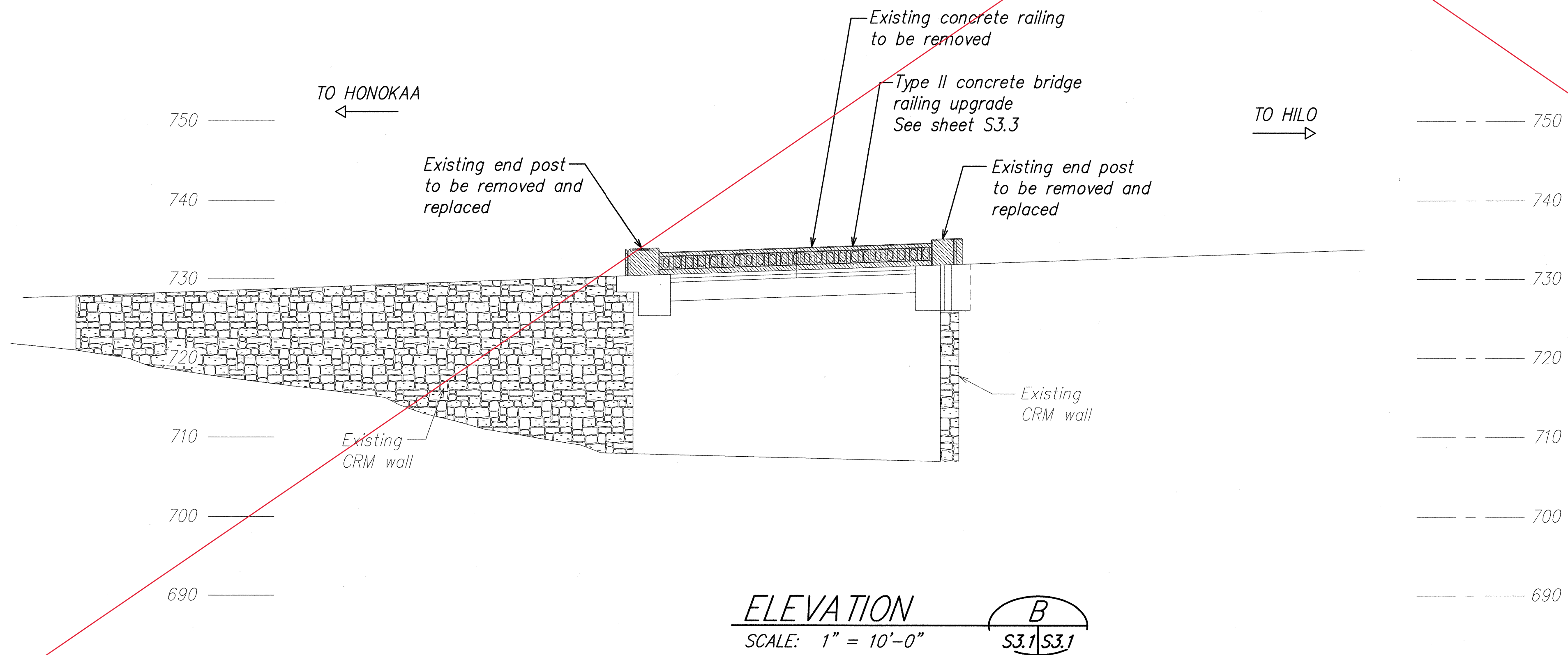


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	59	112



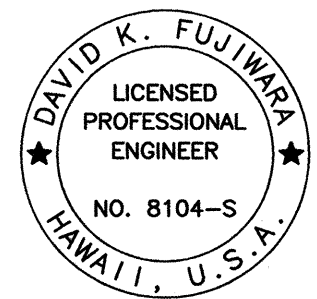
NOTES:
1. See Civil drawings for additional work on existing AC pavement.

RAILING AND END POST DEMOLITION PLAN
SCALE: 1" = 10'-0"
N.I.C.



ELEVATION
SCALE: 1" = 10'-0"
S3.1/S3.1

AS-BUILT



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Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

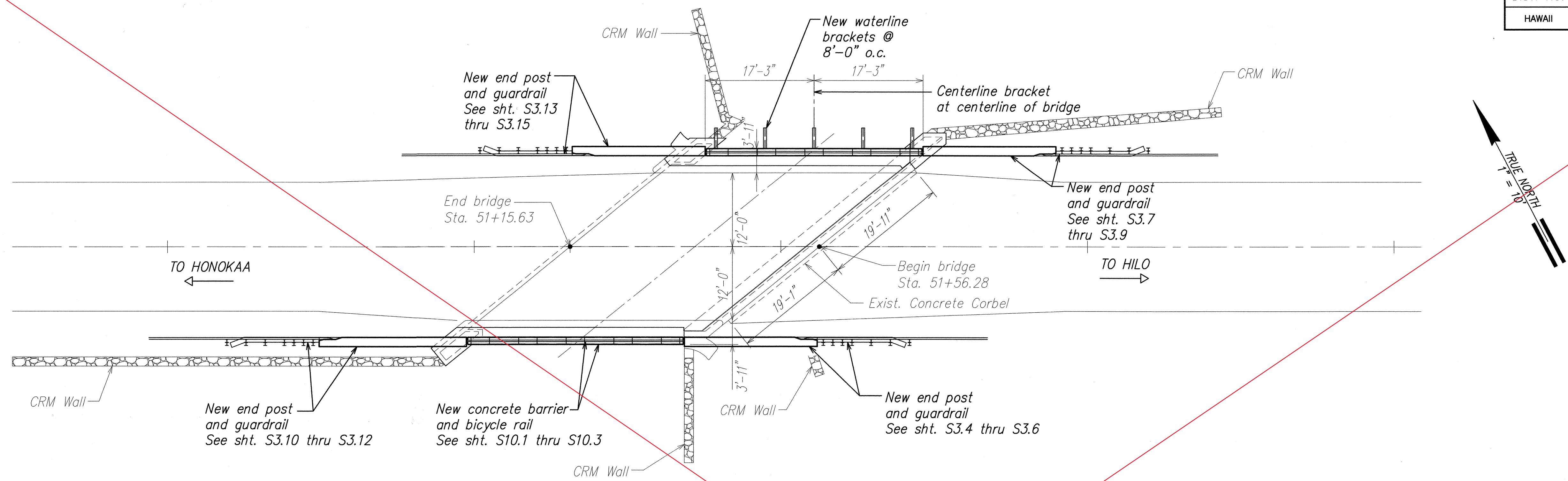
BRIDGE PLAN AND ELEVATION
KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Keala Bridge
Federal Aid-Project No. NH-019-2(55)

Scale: As Noted Date: April 2004

SHEET No. **S3.1** OF **61** SHEETS

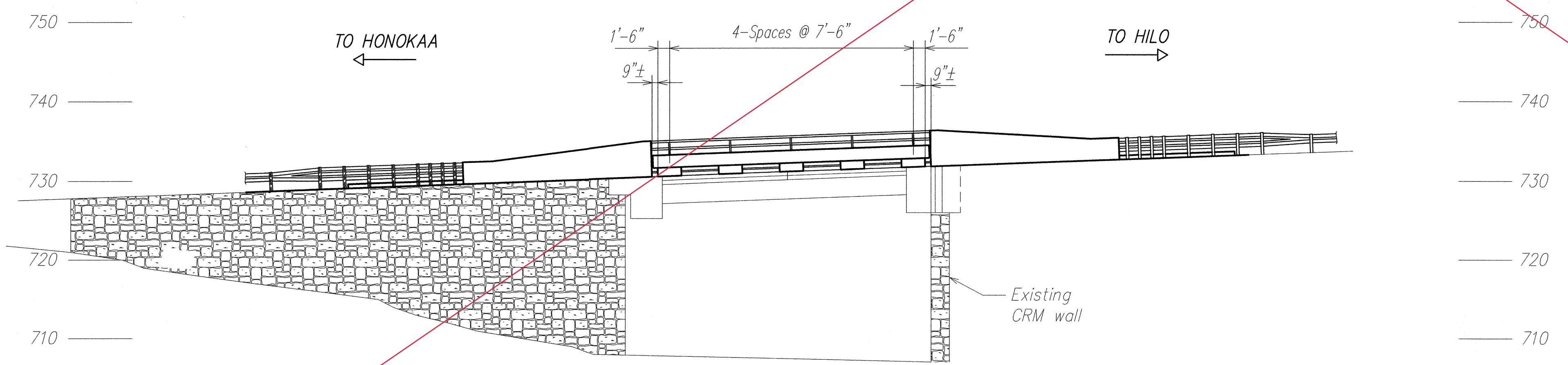
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DESIGNED BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	60	112

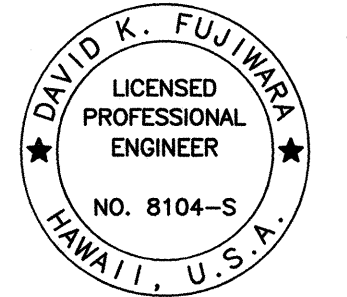


RAILING AND END POST PLAN **A**
SCALE: 1" = 10'-0" **S3.2 | S3.2**

N.I.C.



ELEVATION **B**
SCALE: 1" = 10'-0" **S3.2 | S3.2**



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Date: 4-30-04
Expiration Date of License: 4-30-04

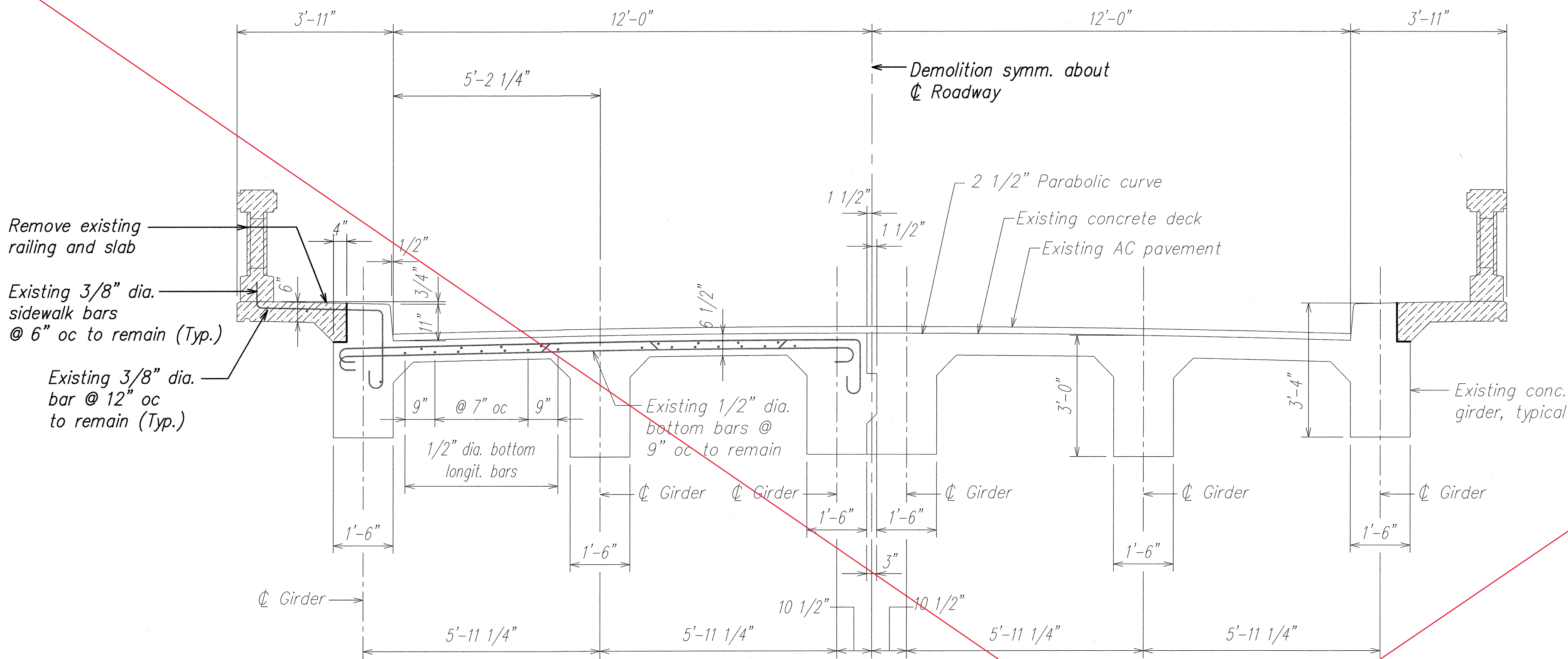
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**NEW BRIDGE PLAN AND ELEVATION
KAWAII BRIDGE**
**HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)**

Scale: As Noted Date: April 2004

SHEET No. **S3.2** OF **61** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	61	112

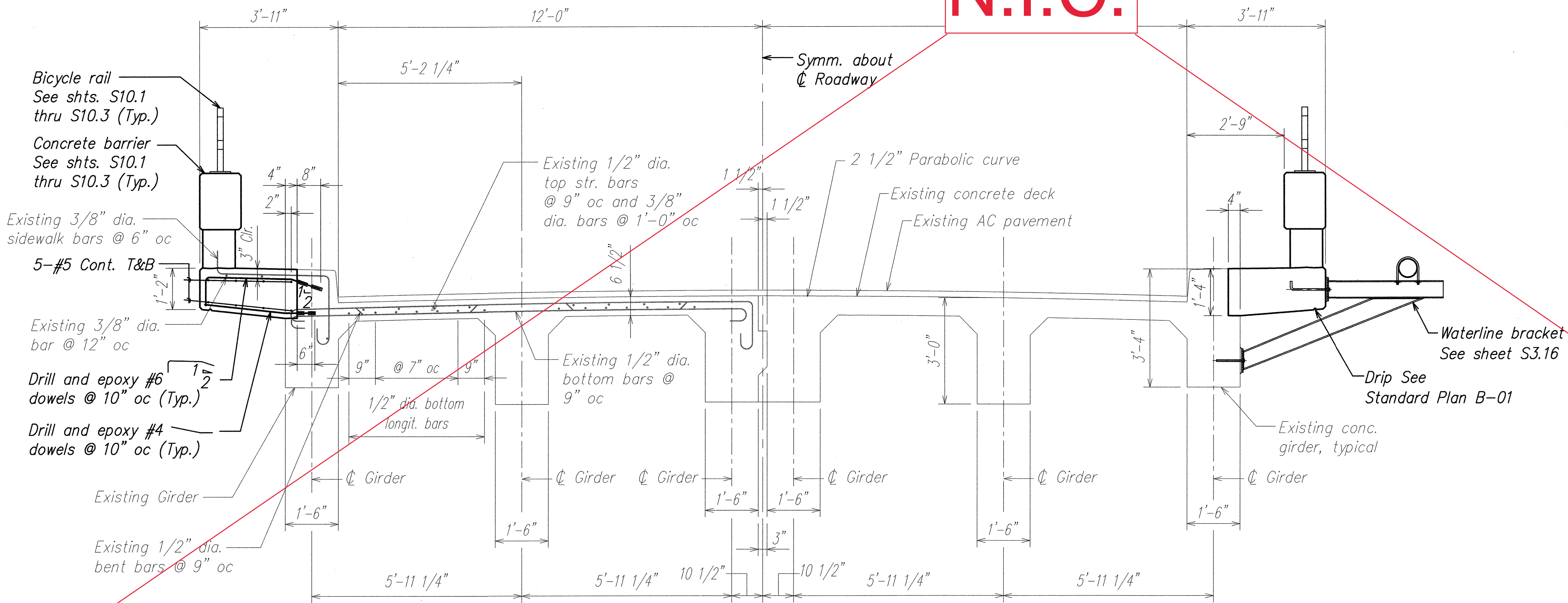
DELETED FROM PROJECT



RAILING AND DECK DEMOLITION SECTION A

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

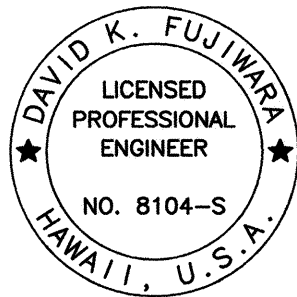
N.I.C.



NEW RAILING SECTION B

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

S3.3/S3.3



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Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

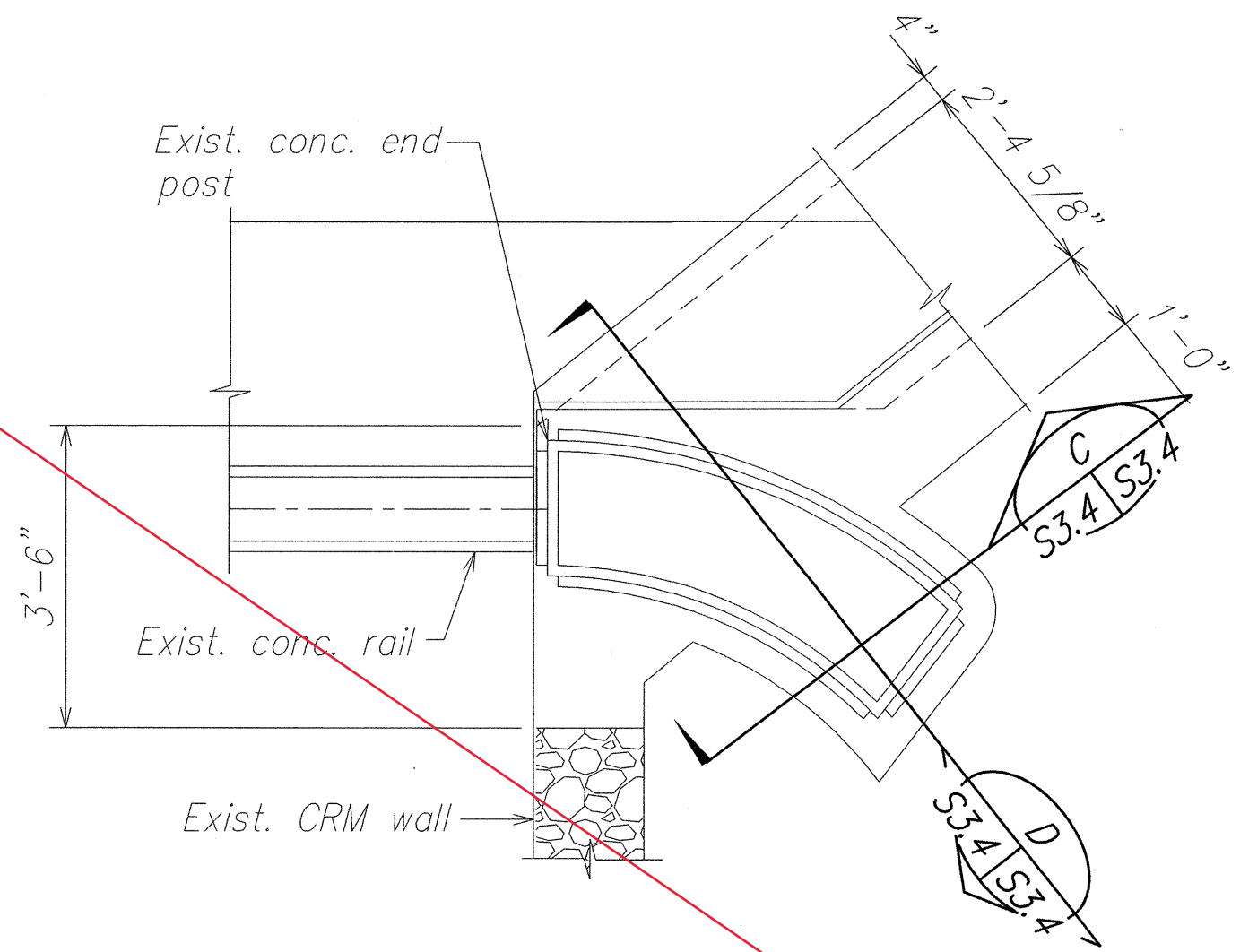
AS-BUILT

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DECK SECTION
KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

Scale: As Noted Date: April 2004

SHEET No. S3.3 OF 61 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	62	112



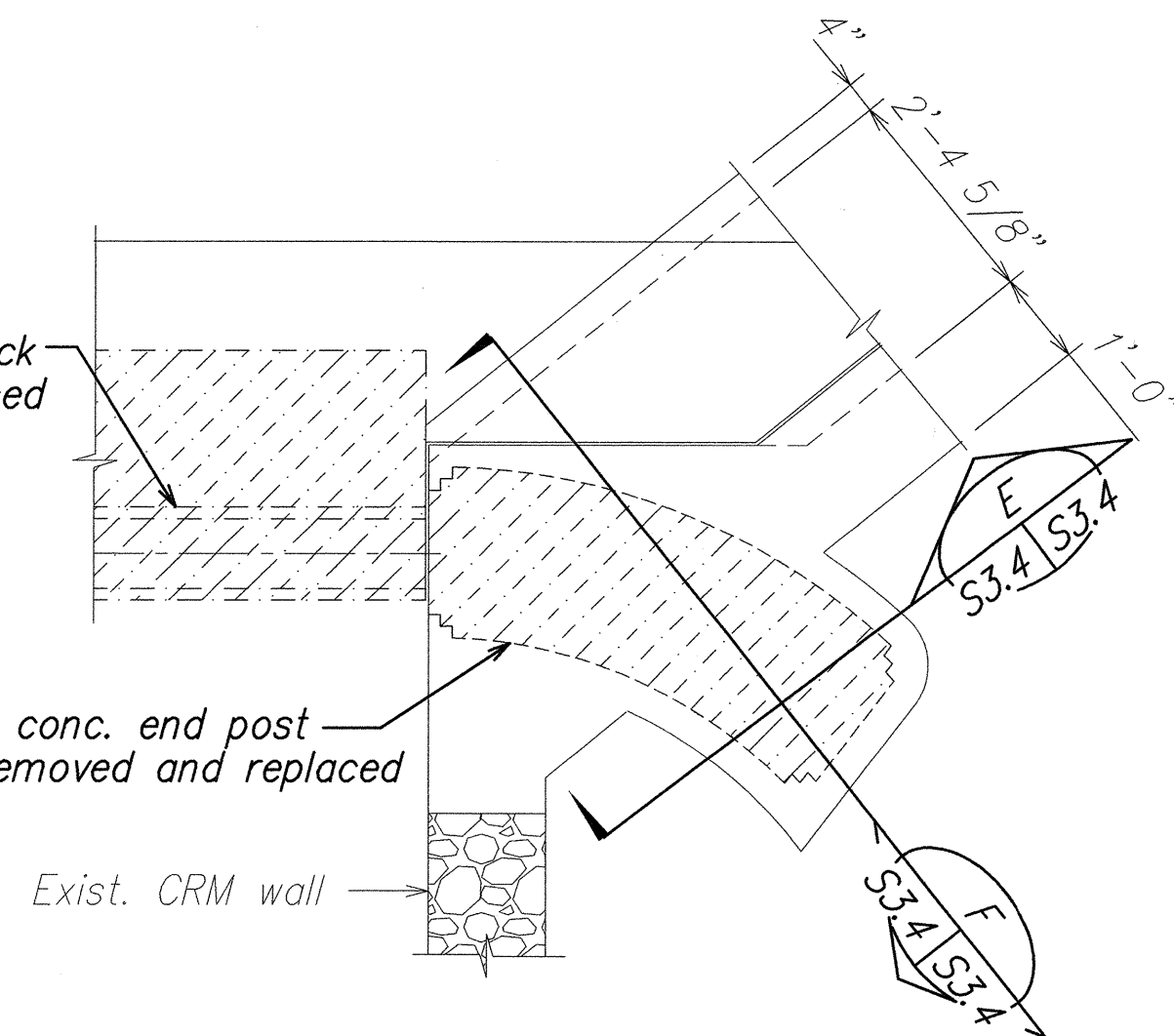
EXIST. CONC. END POST
DETAIL PLAN

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

A
S3.4/S3.4

Existing conc. rail and deck
to be removed and replaced
See sheet S3.3

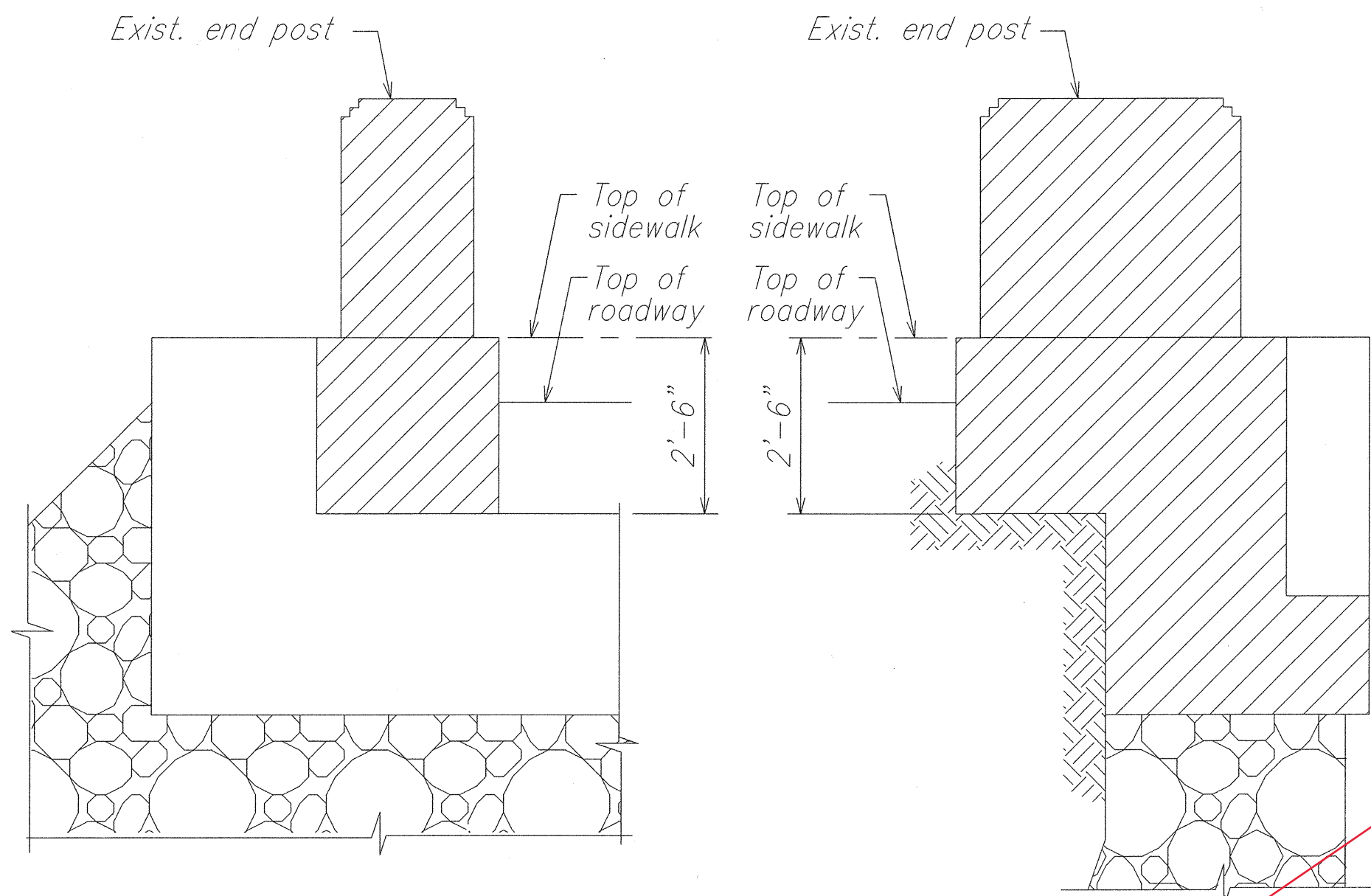
Existing conc. end post
to be removed and replaced



END POST DEMOLITION
DETAIL PLAN

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

B
S3.4/S3.4



SECTION C
SCALE: 1/2" = 1'-0"

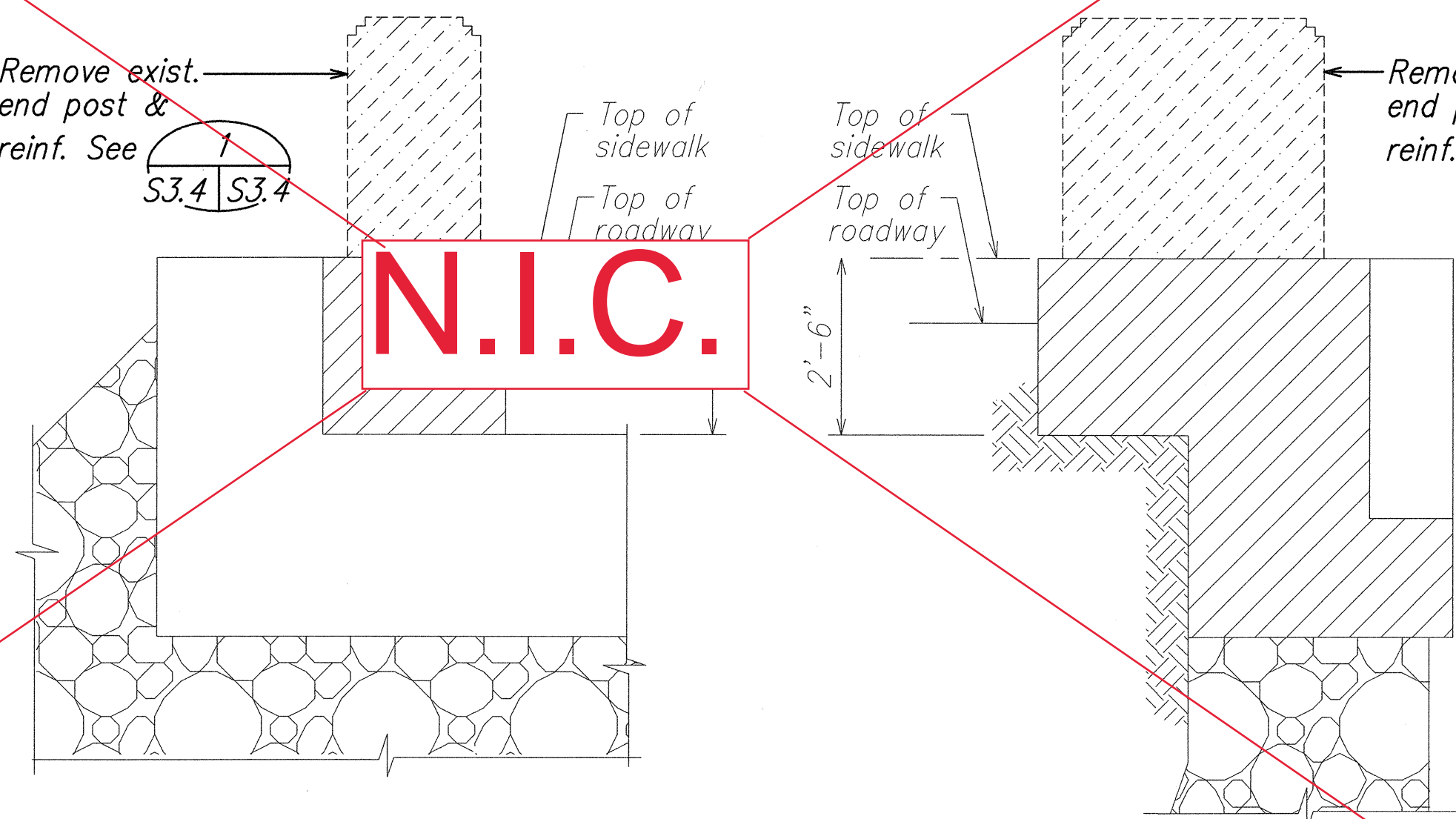
C
S3.4/S3.4

SECTION D
SCALE: 1/2" = 1'-0"

D
S3.4/S3.4

Remove exist.
end post &
reinf. See

1
S3.4/S3.4



SECTION E
SCALE: 1/2" = 1'-0"

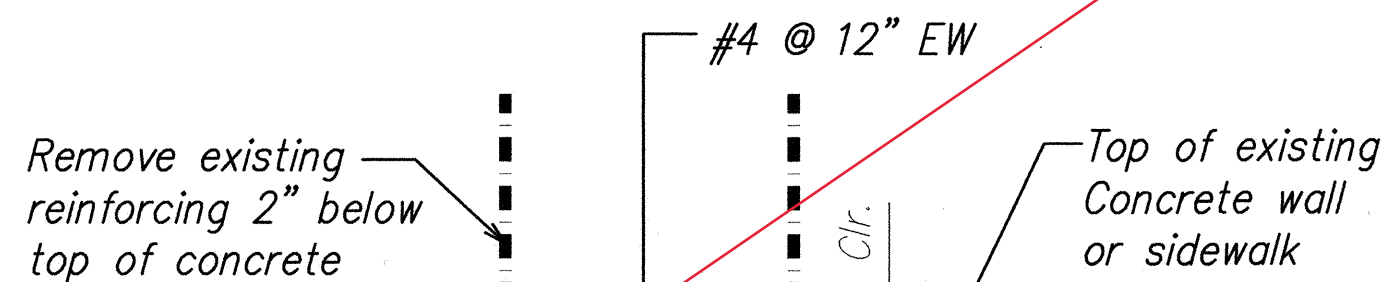
E
S3.4/S3.4

SECTION F
SCALE: 1/2" = 1'-0"

F
S3.4/S3.4

Remove exist.
end post &
reinf. See

1
S3.4/S3.4



Demolish existing concrete
and pour back to original
top or side of wall or top
of sidewalk location

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

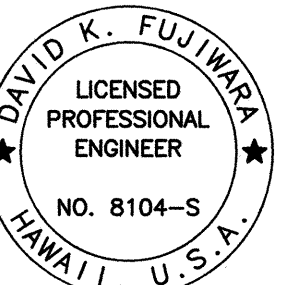
1
S3.4/S3.4

NOTES:

1. This detail is applicable to locations where 2" cover over the reinforcing cannot be provided.
2. In areas where 2" cover can be provided and there is no rebar corrosion as determined by the Engineer, the rebar may remain or can be cut off near the top or side of the wall or the top of the sidewalk.

N.I.C.

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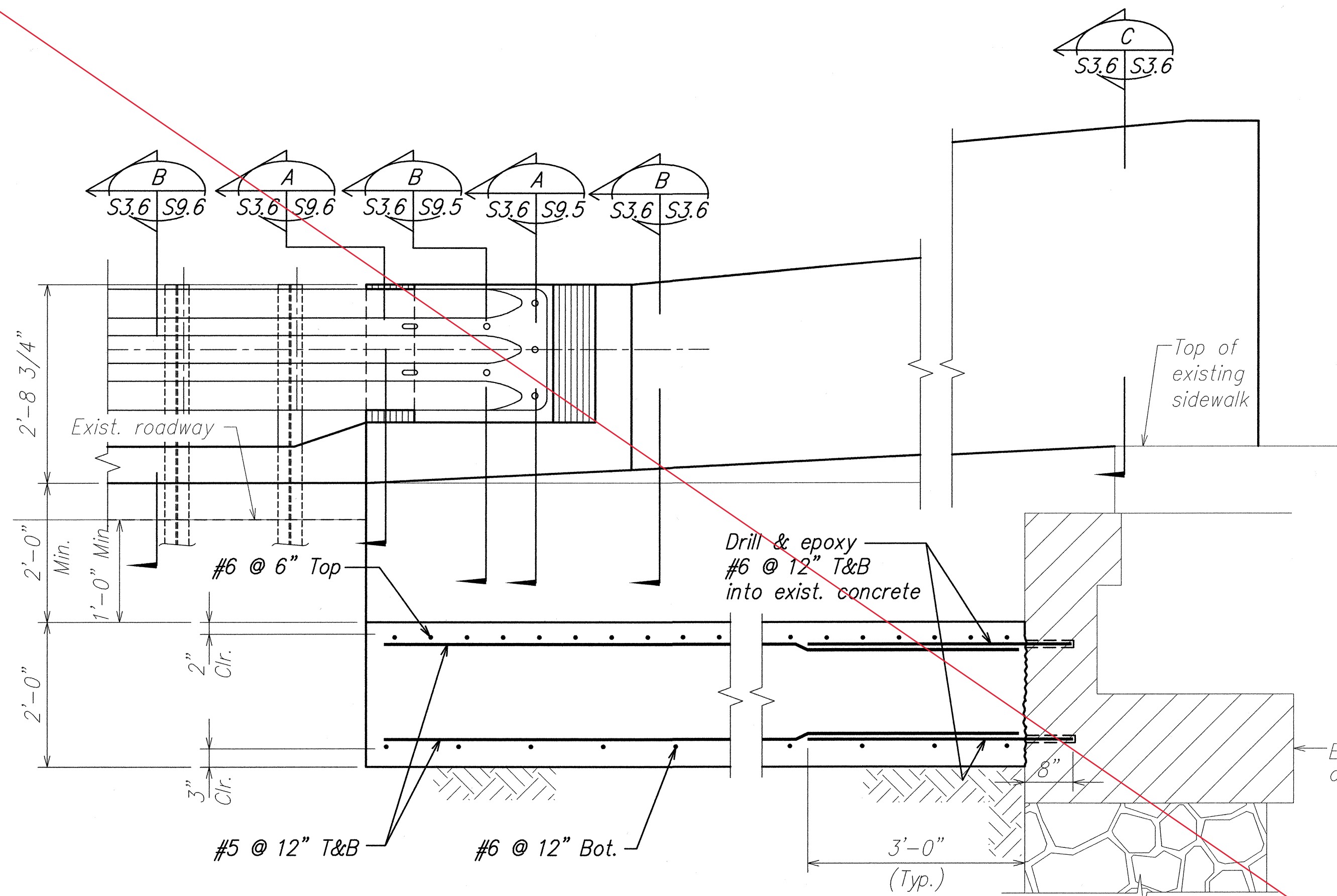
Signature: David K. Fujiwara
Expiration Date: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
END POST EXIST. & DEMOLITION PLANS,
SECTS. & DTLS - KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

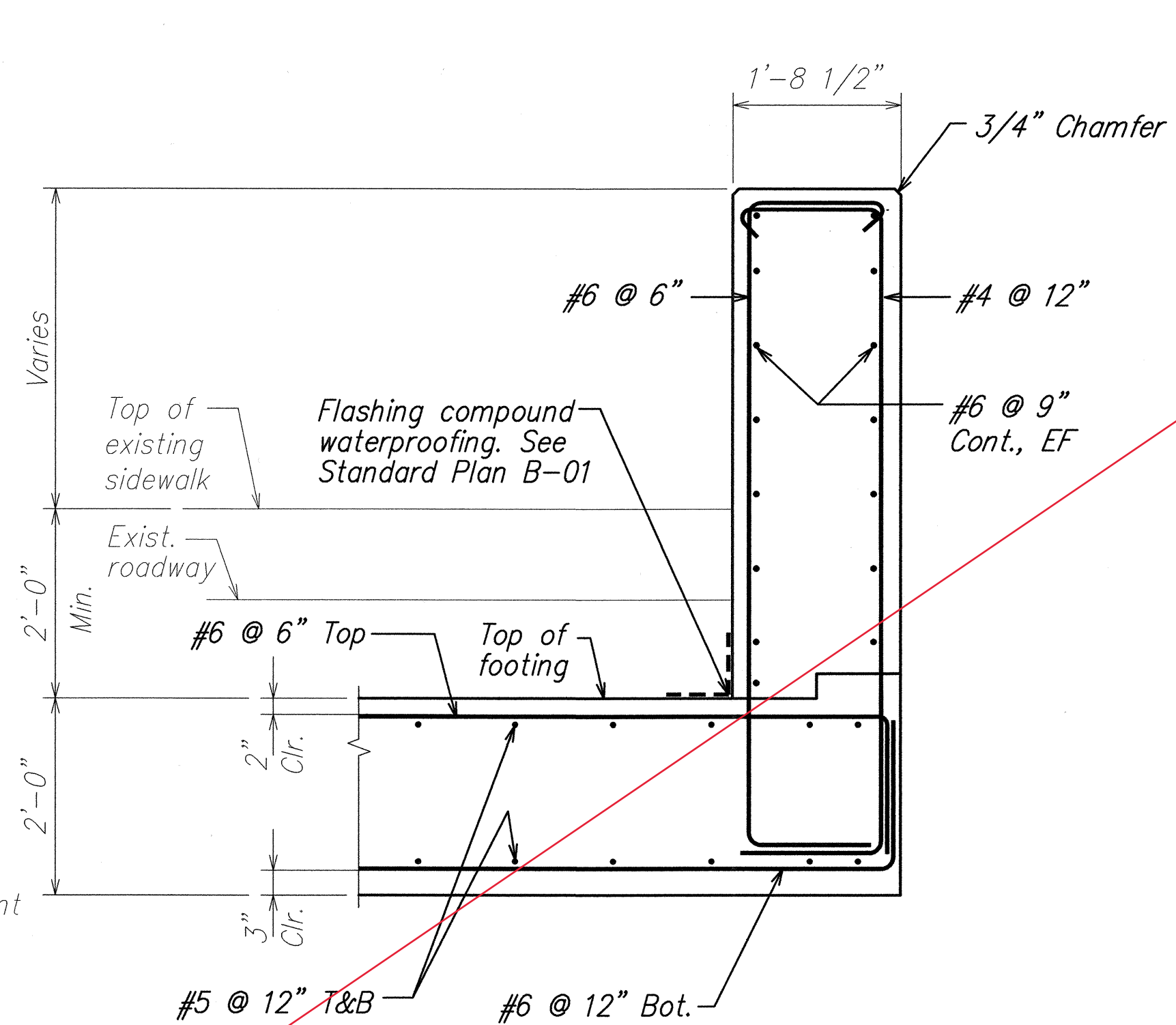
Scale: As Noted Date: April 2004

SHEET No. S3.4 OF 61 SHEETS

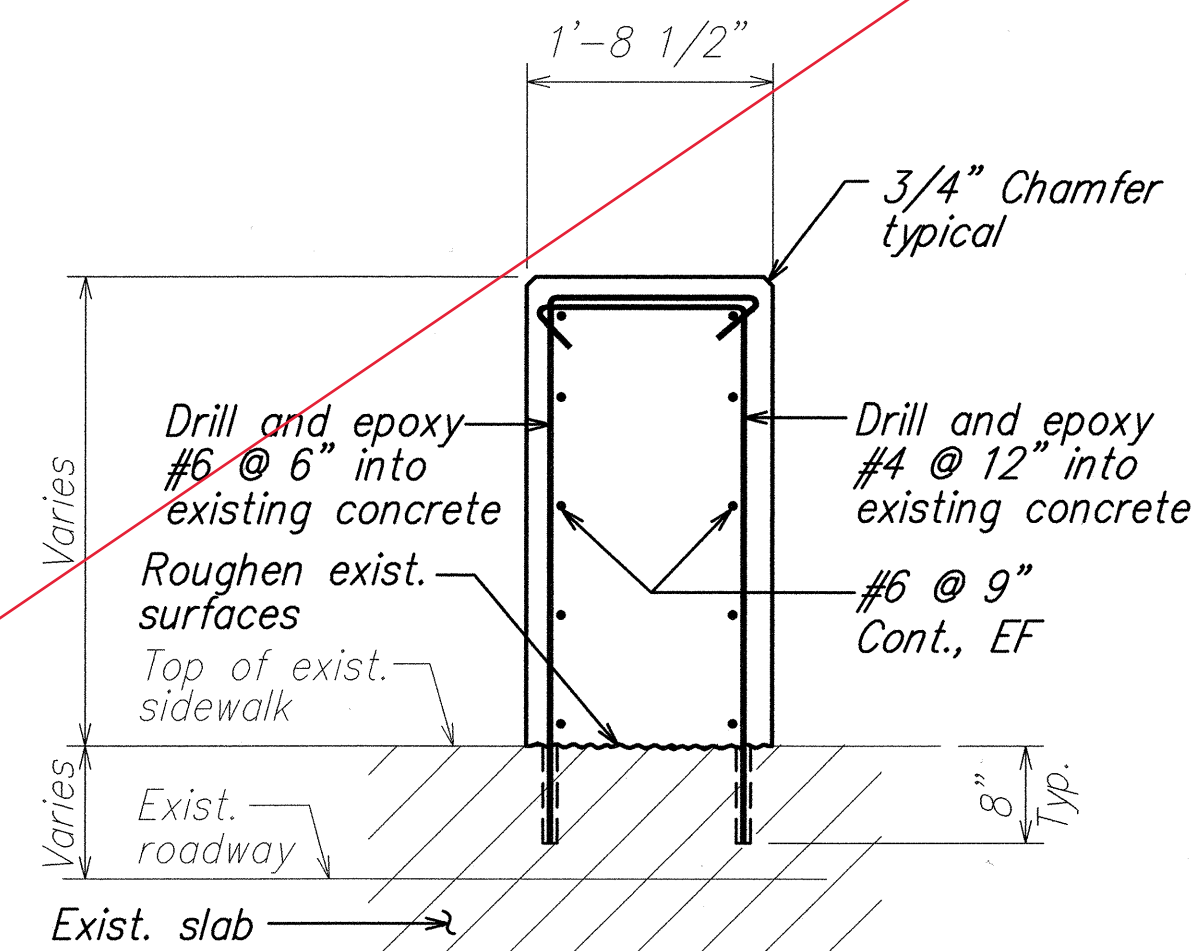
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	64	112



SECTION A
SCALE: 3/4" = 1'-0" S3.5 S3.6



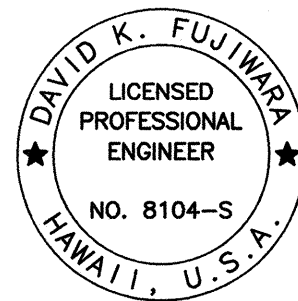
SECTION B
SCALE: 3/4" = 1'-0" S3.6 S3.6



SECTION C
SCALE: 3/4" = 1'-0" S3.6 S3.6

N.I.C.

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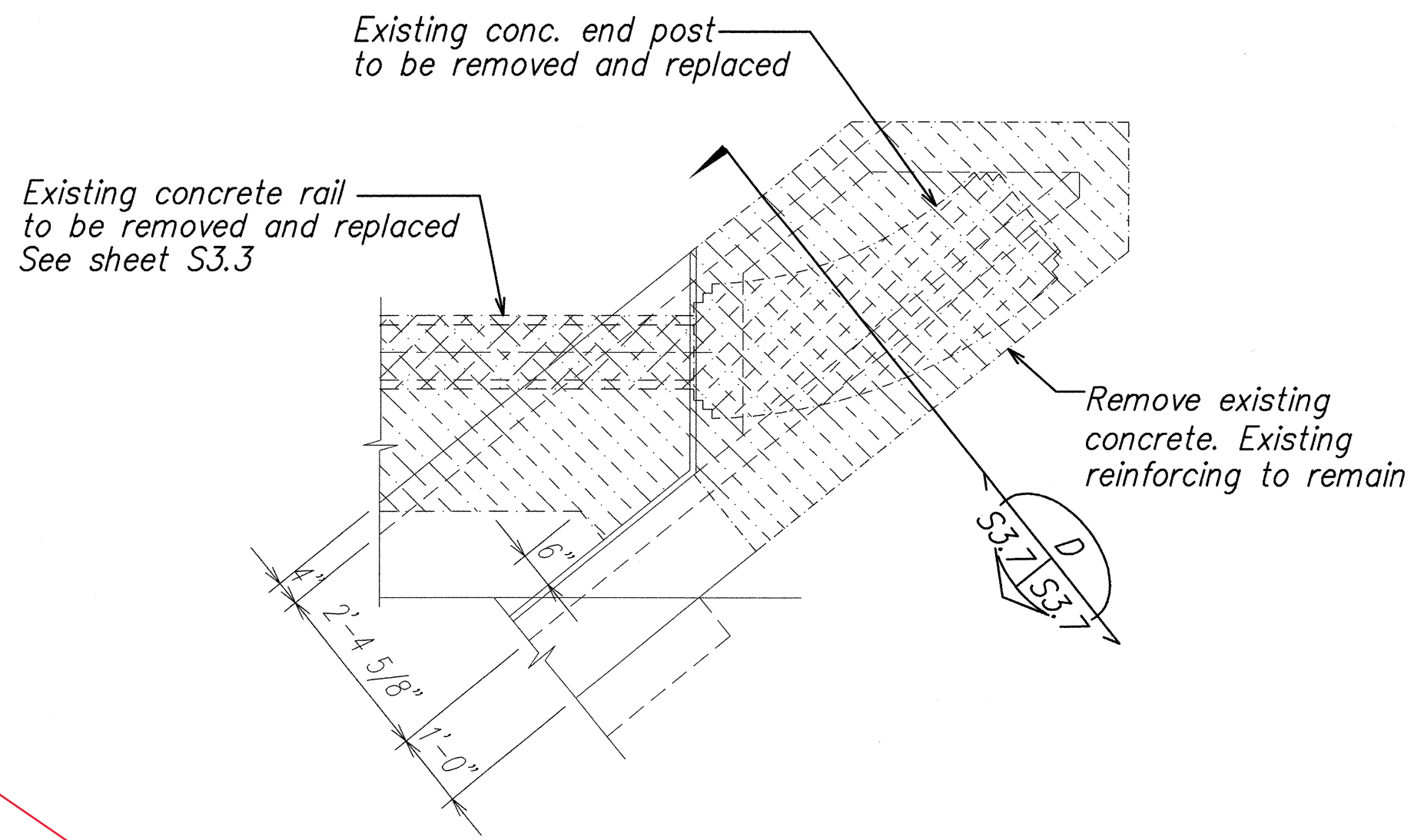
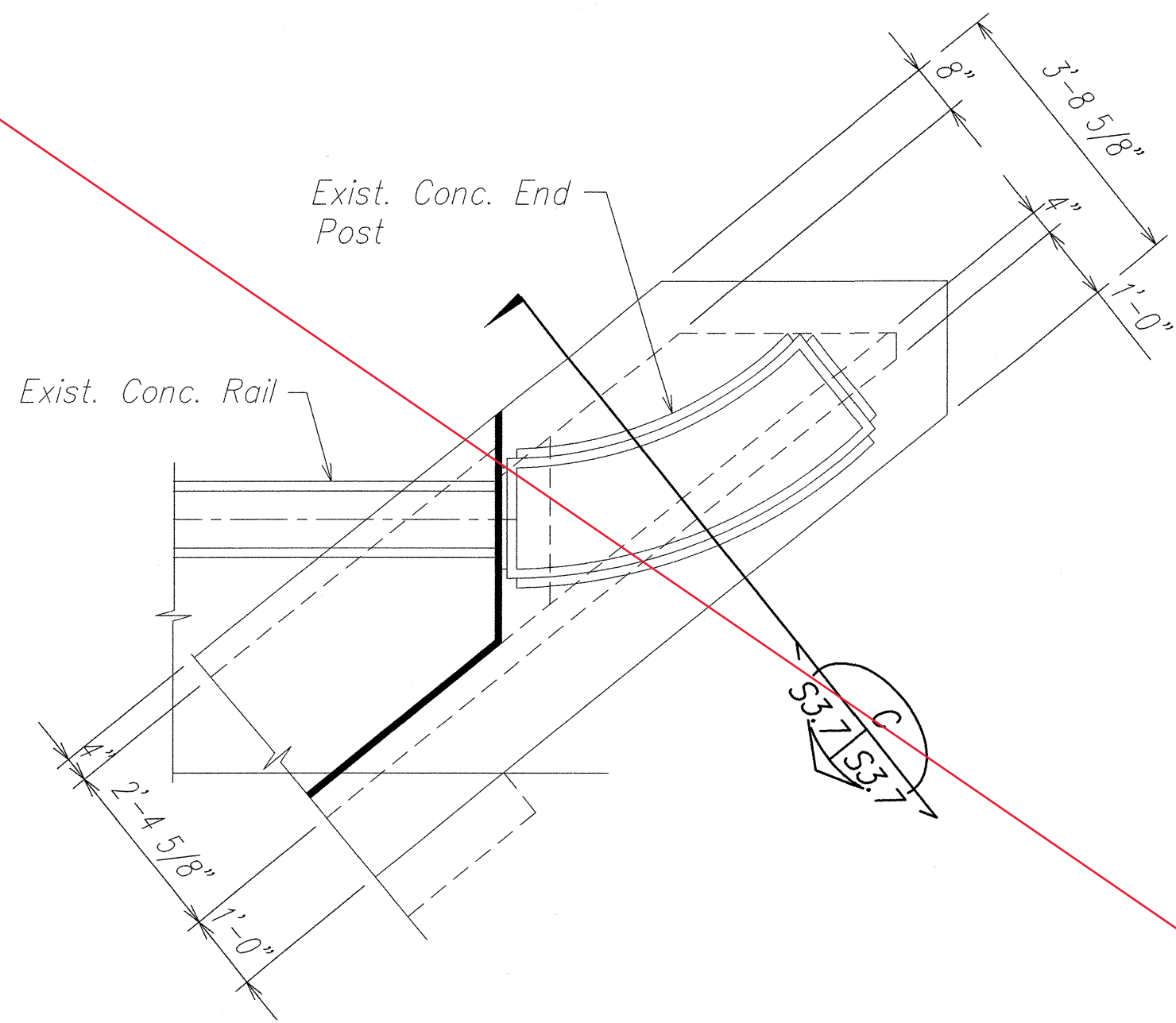
Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW END POST SECTION AND DETAILS
KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

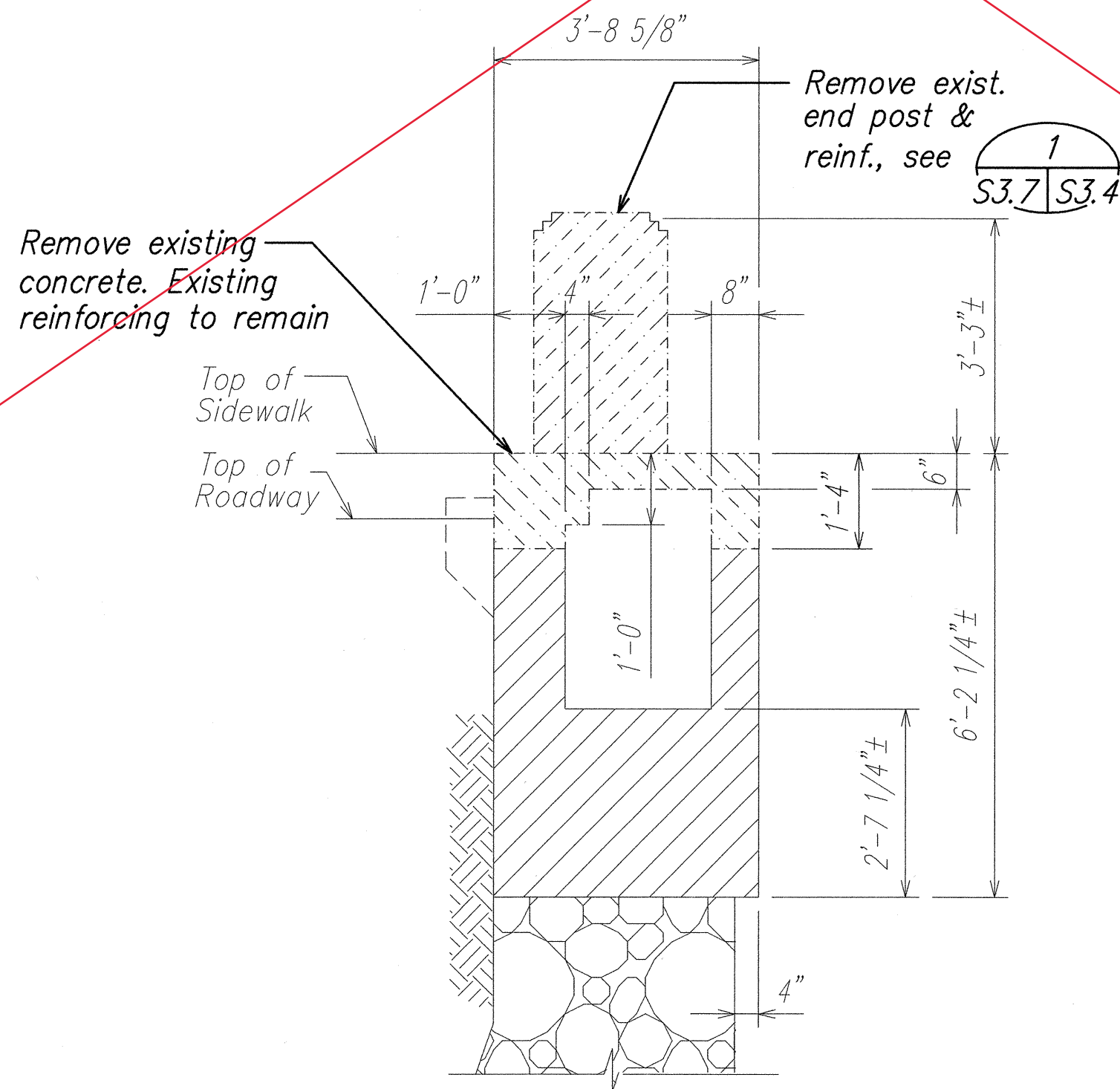
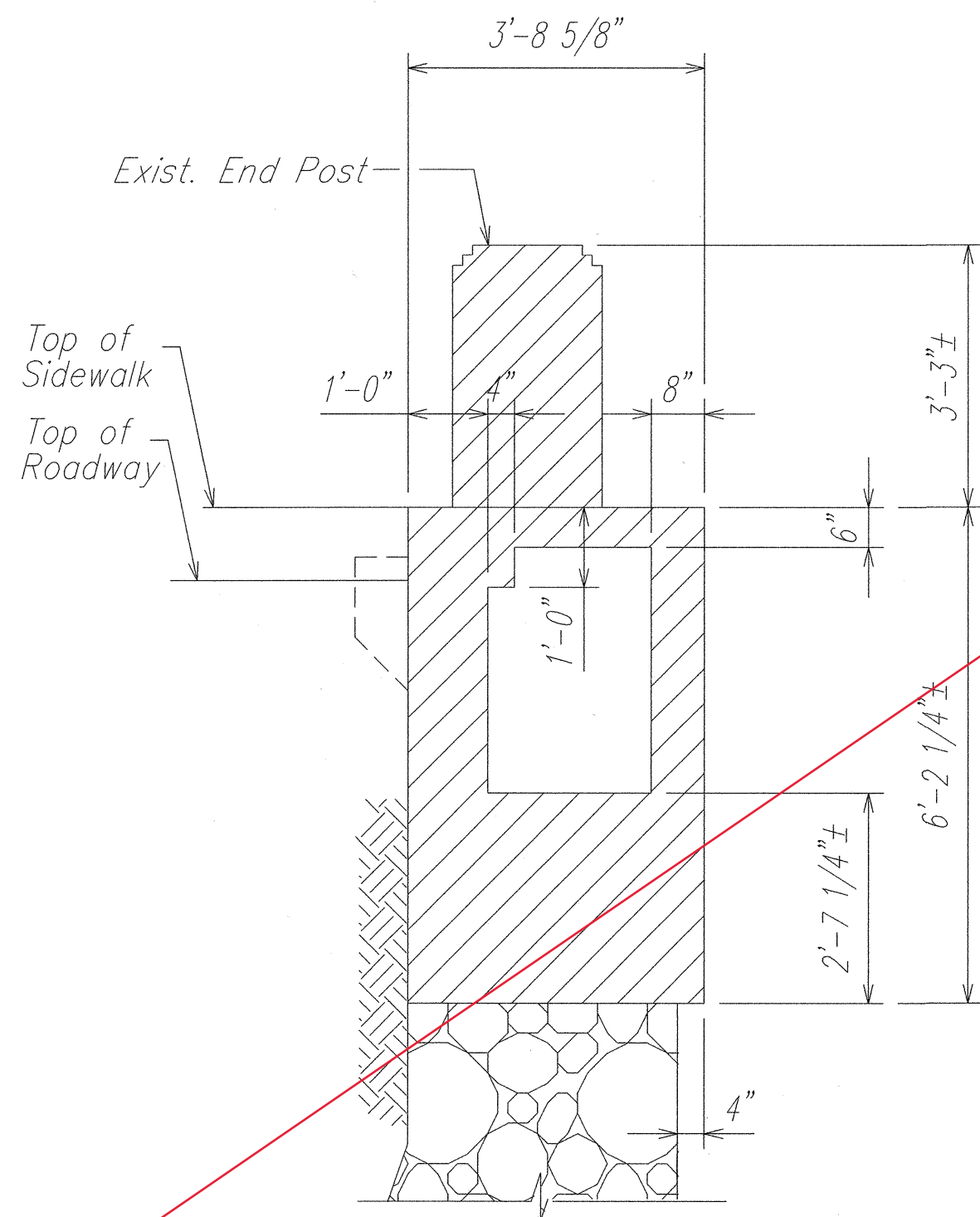
Scale: As Noted Date: April 2004

SHEET No. S3.6 OF 61 SHEETS

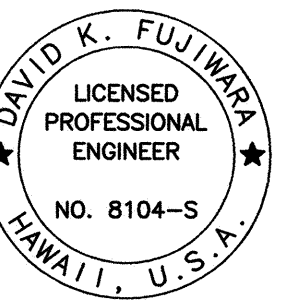
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	65	112



N.I.C.



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SIGNATURE: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

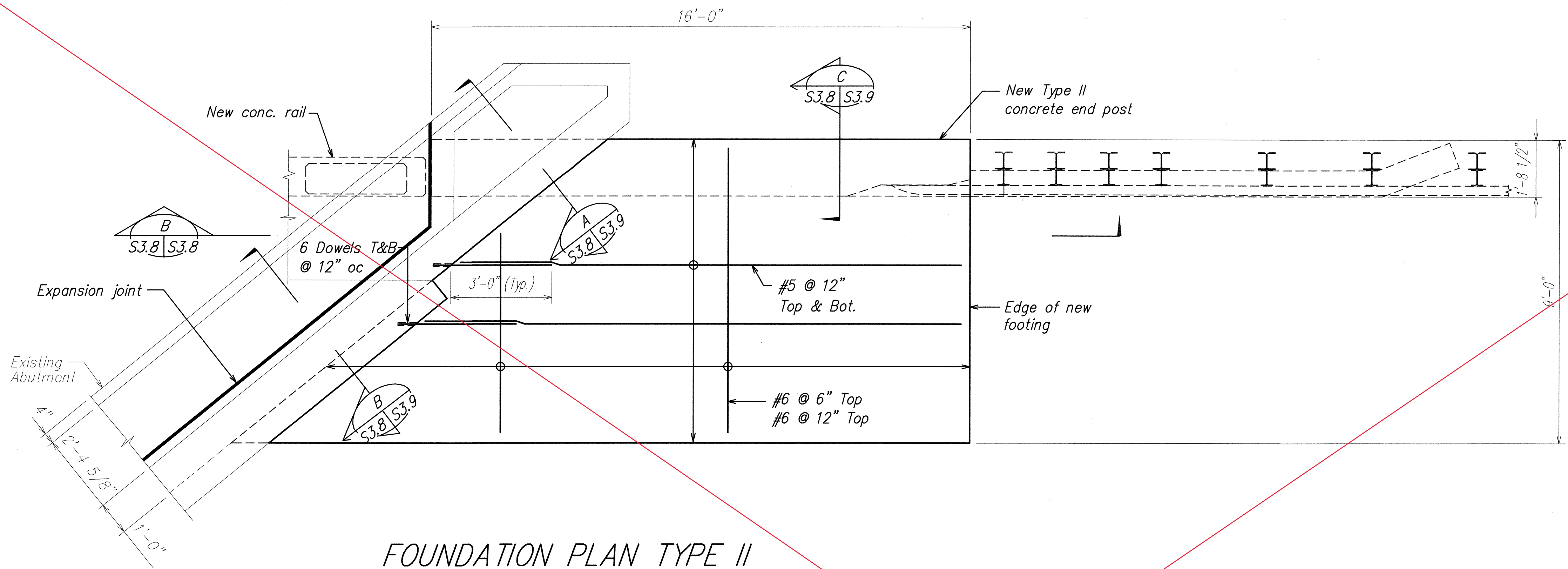
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

END POST EXIST. & DEMOLITION PLANS,
SECTS. & DTLS - KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

Scale: As Noted Date: April 2004

SHEET No. S3.7 OF 61 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	66	112

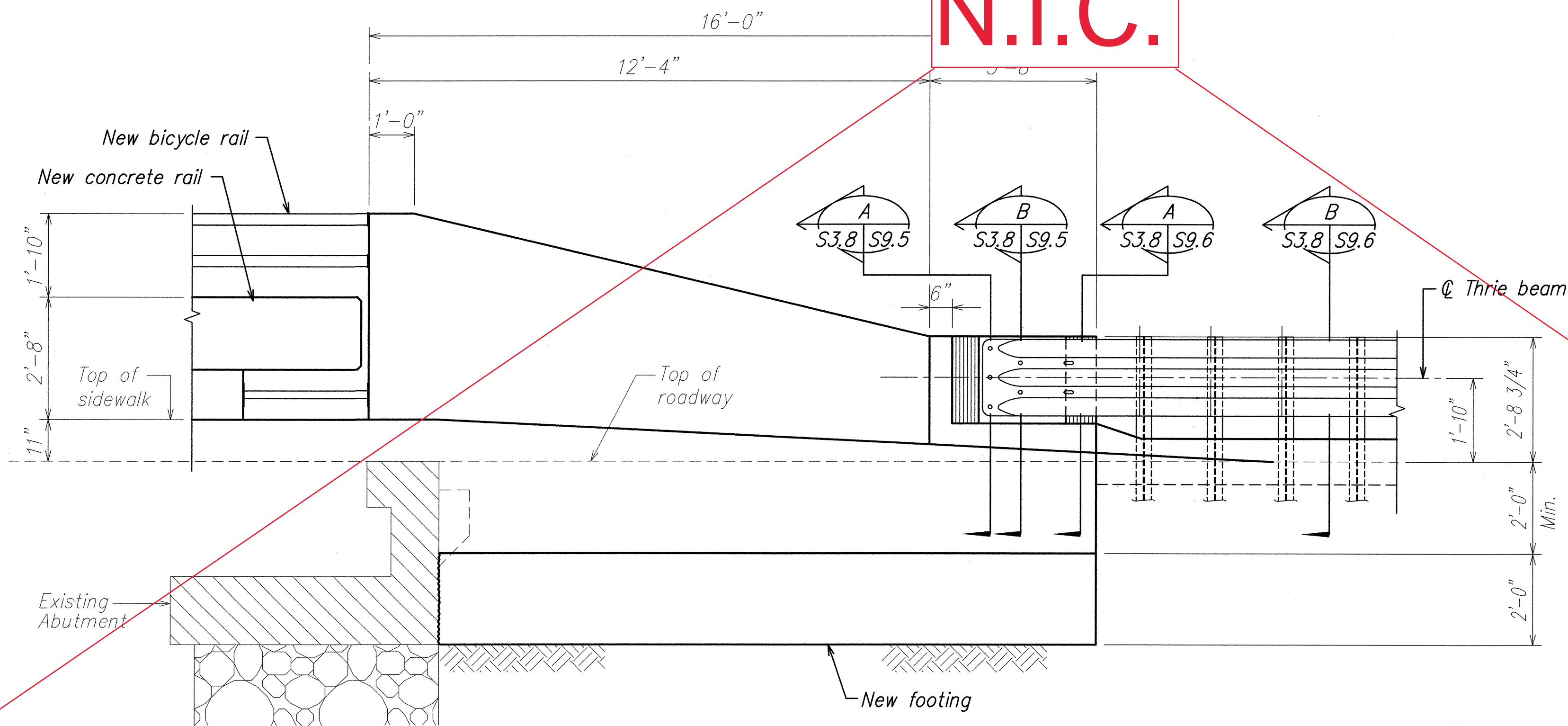


FOUNDATION PLAN TYPE II
CONCRETE END POST UPGRADE

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

A
S3.8 S3.8

N.I.C.

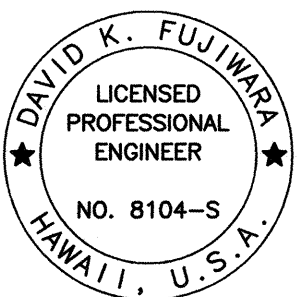


ELEVATION

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

B
S3.8 S3.8

AS-BUILT



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Signature: *David K. Fujiwara*
EXPIRATION DATE OF THE LICENSE: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

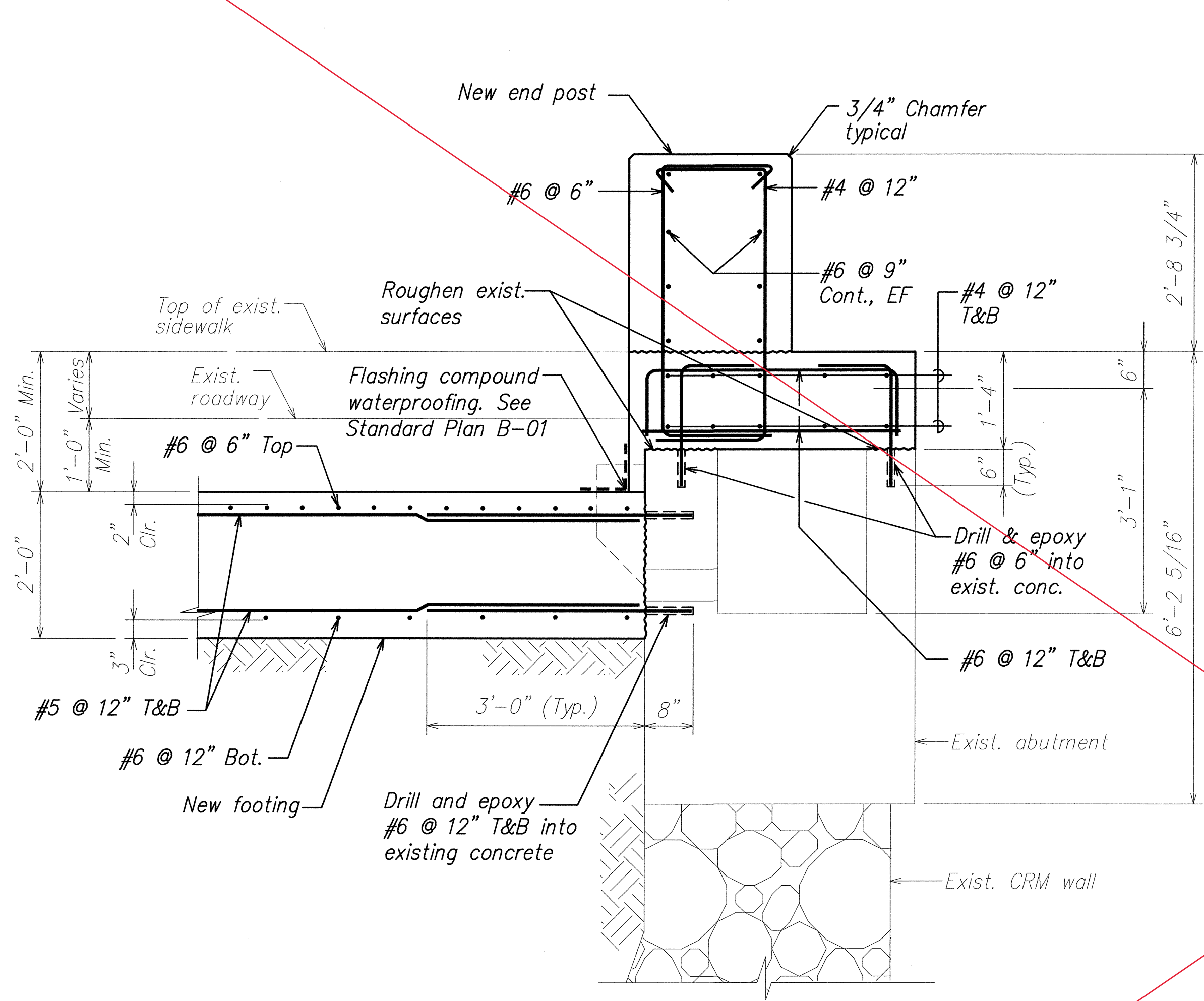
NEW END POST PLAN & ELEVATION
KAWAILI BRIDGE - HILO /MAKAI
HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

Scale: As Noted Date: April 2004

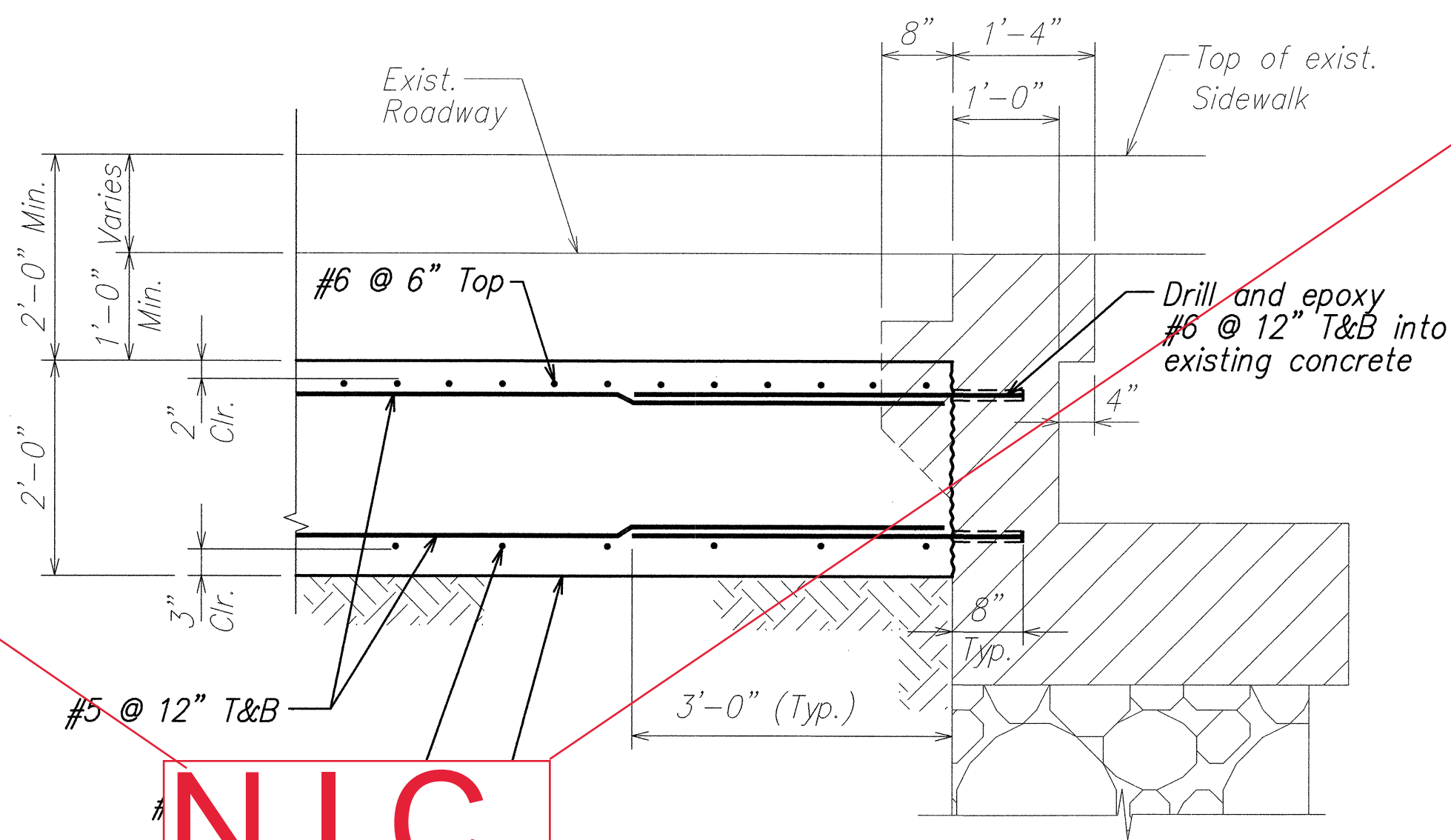
SHEET No. **S3.8** OF **61** SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	

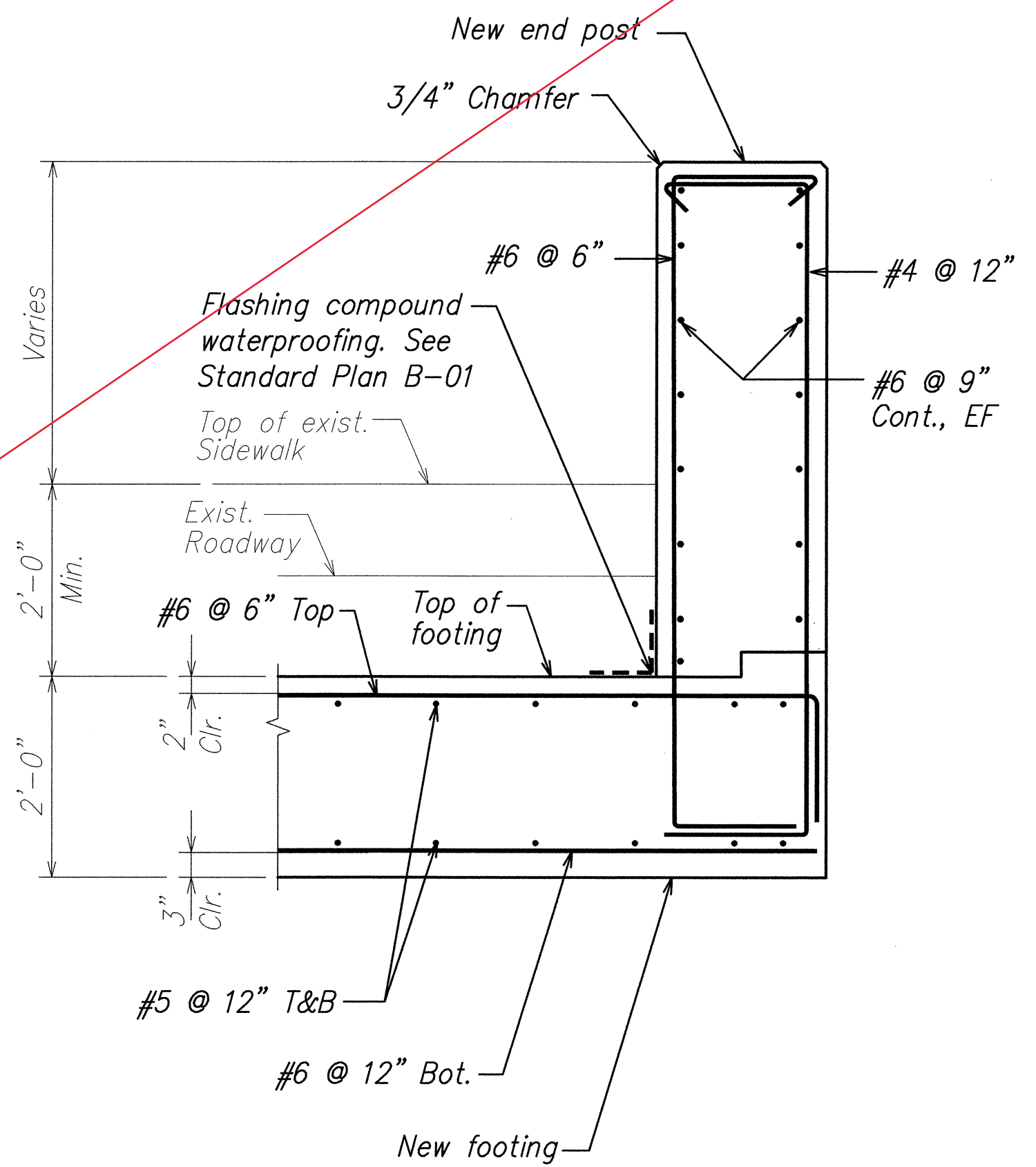
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	67	112



SECTION A
SCALE: 3/4" = 1'-0" S3.8 S3.9

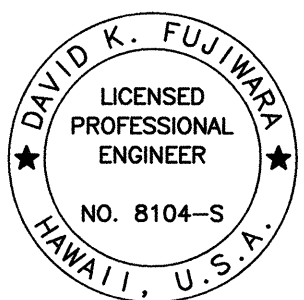


SECTION B
SCALE: 3/4" = 1'-0" S3.8 S3.9



SECTION C
SCALE: 3/4" = 1'-0" S3.8 S3.9

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	



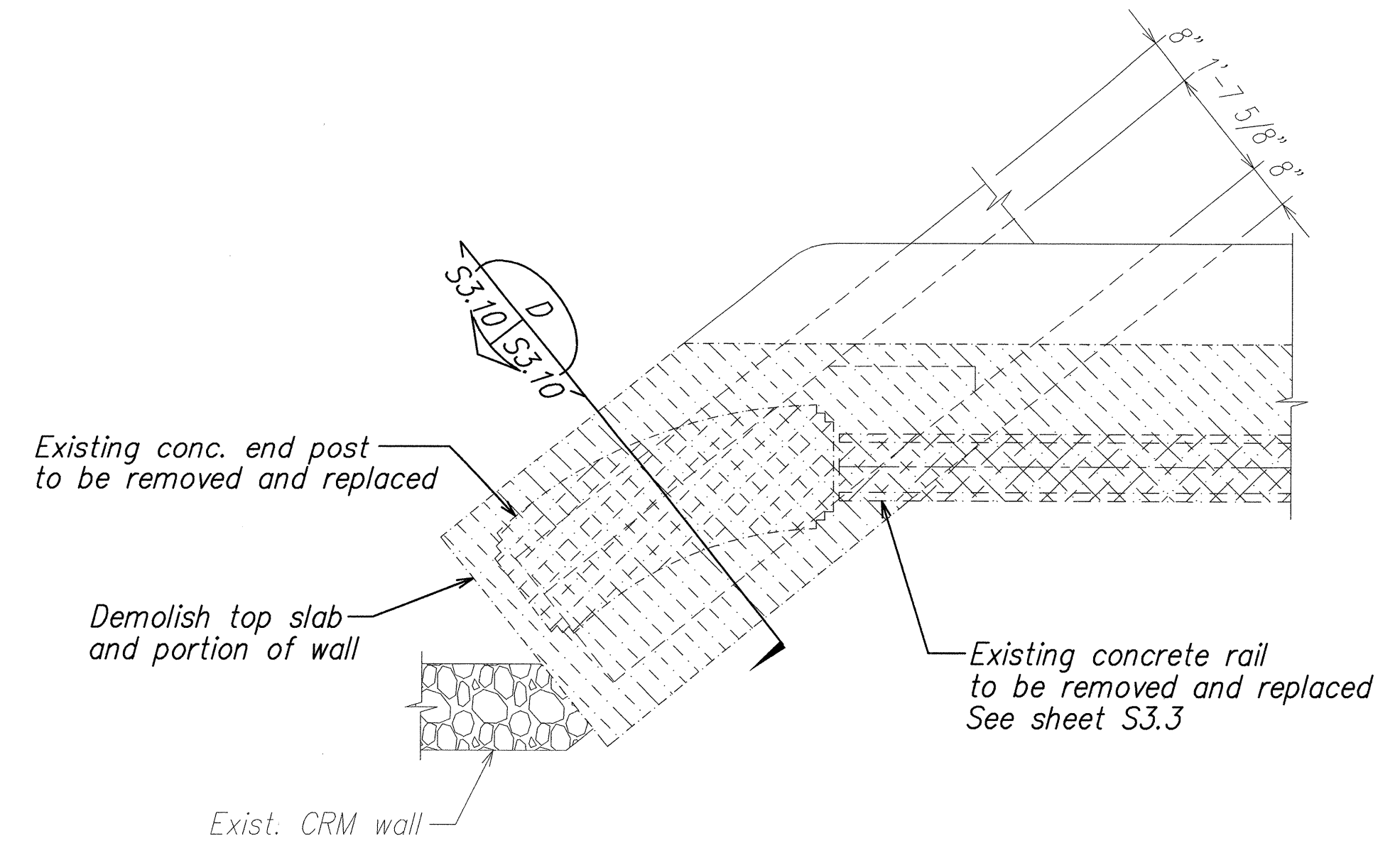
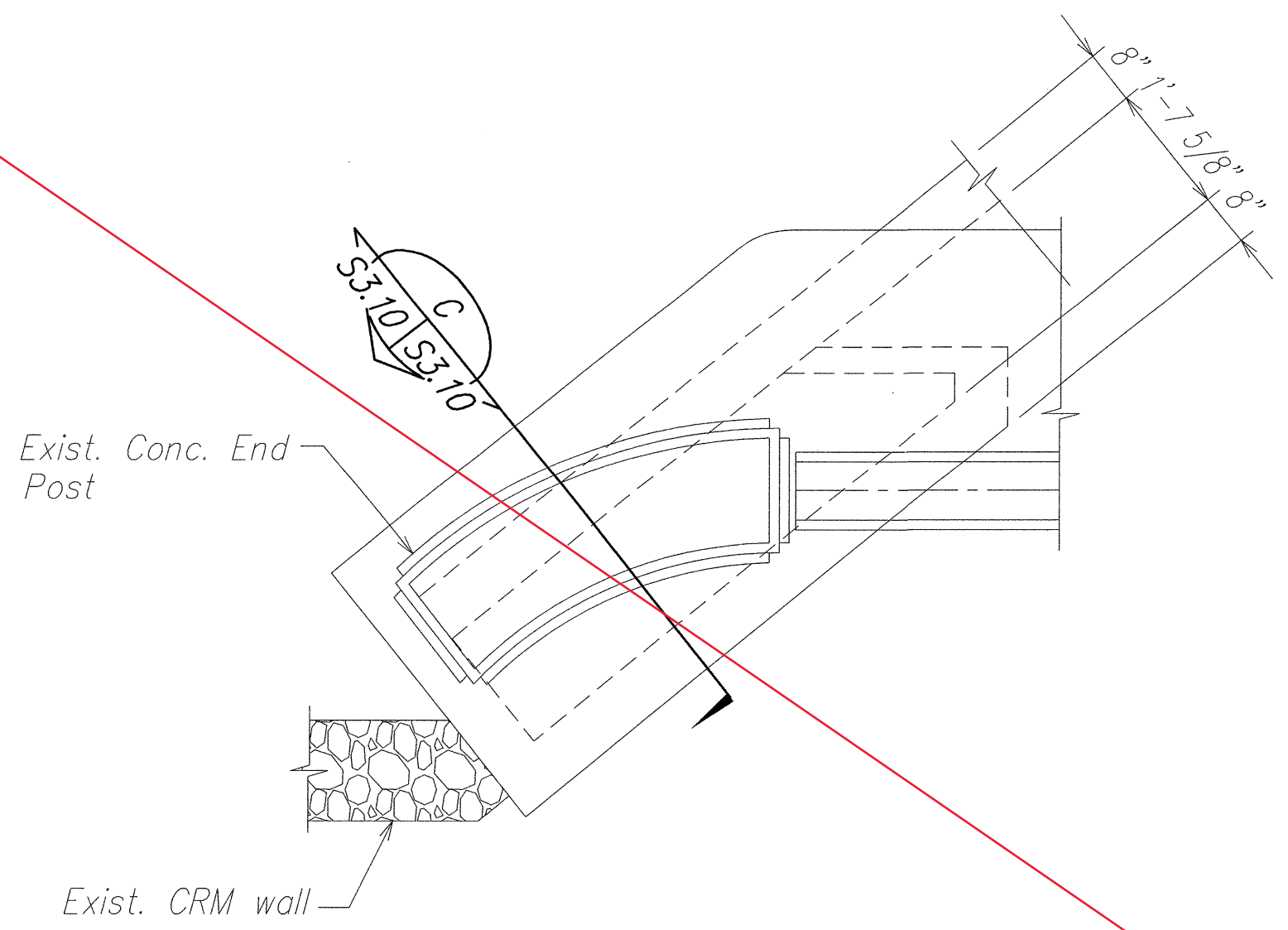
AS-BUILT

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SIGNATURE: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

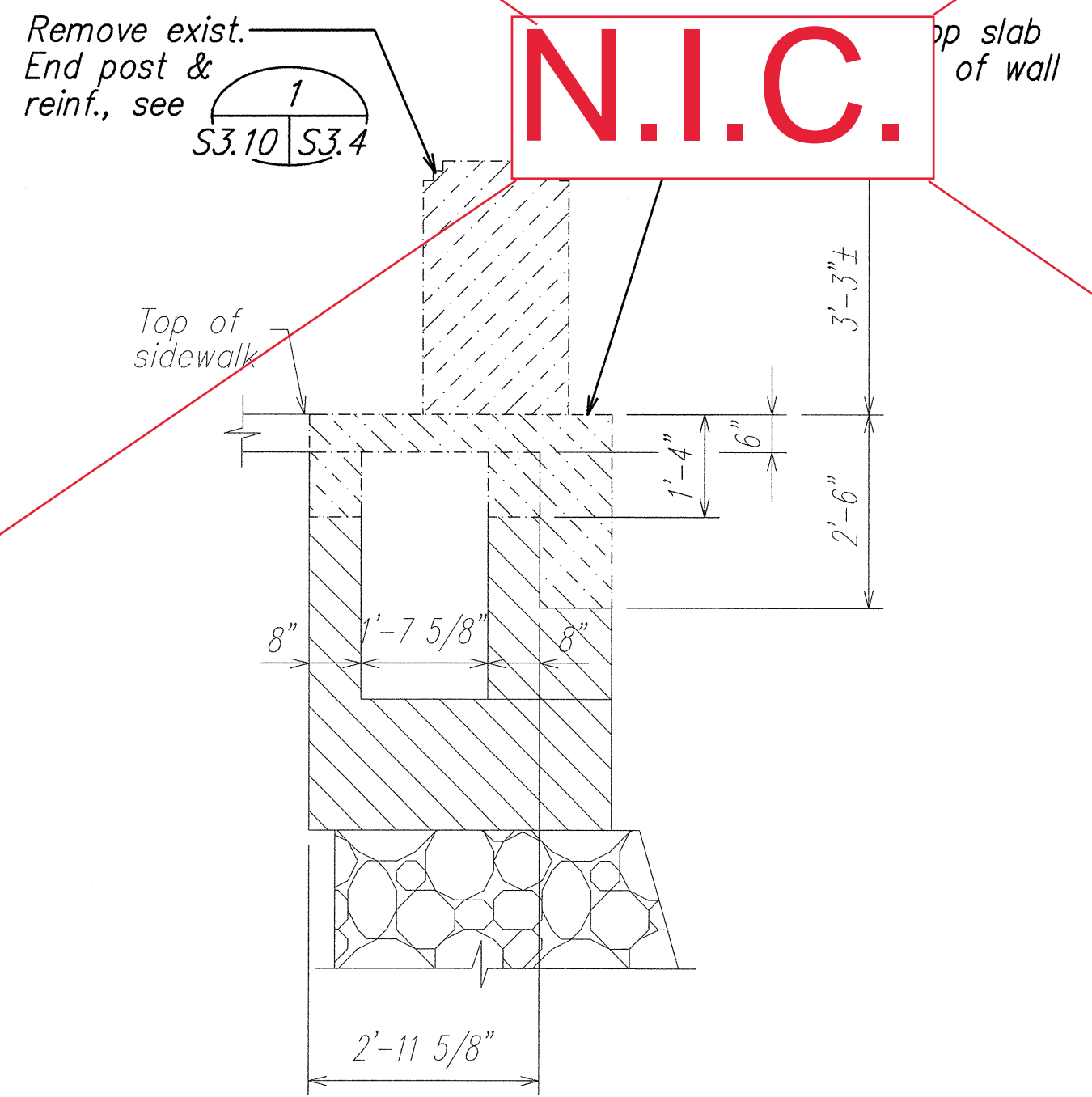
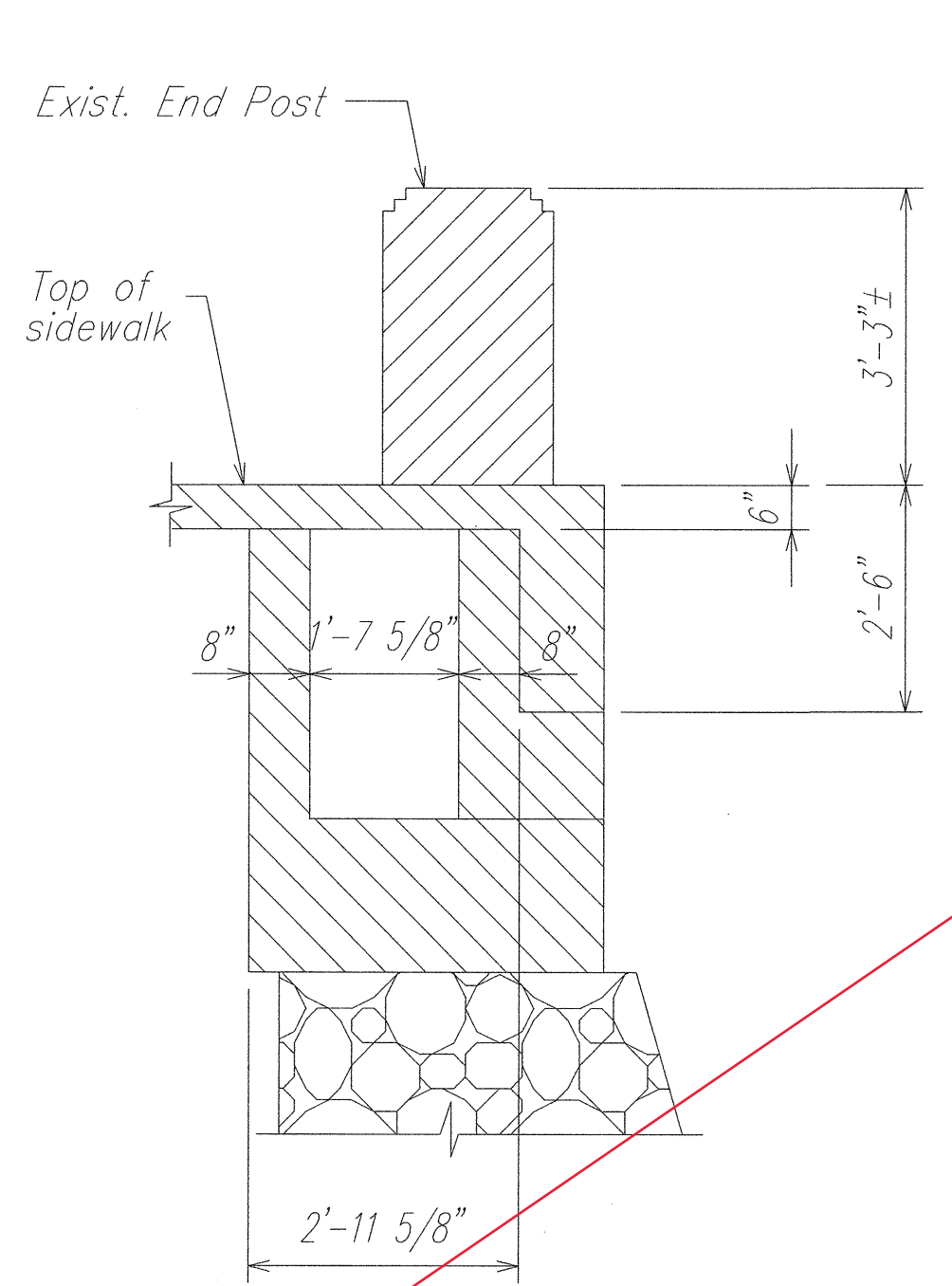
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW END POST SECTION AND DETAILS
KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)
Scale: As Noted Date: April 2004
SHEET No. S3.9 OF 61 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	68	112



EXIST. CONC. END POST
DETAIL PLAN
SCALE: 1/2" = 1'-0"

END POST DEMOLITION
DETAIL PLAN
SCALE: 1/2" = 1'-0"

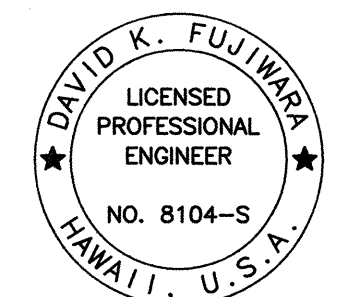


SECTION
SCALE: 1/2" = 1'-0"

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

N.I.C.

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

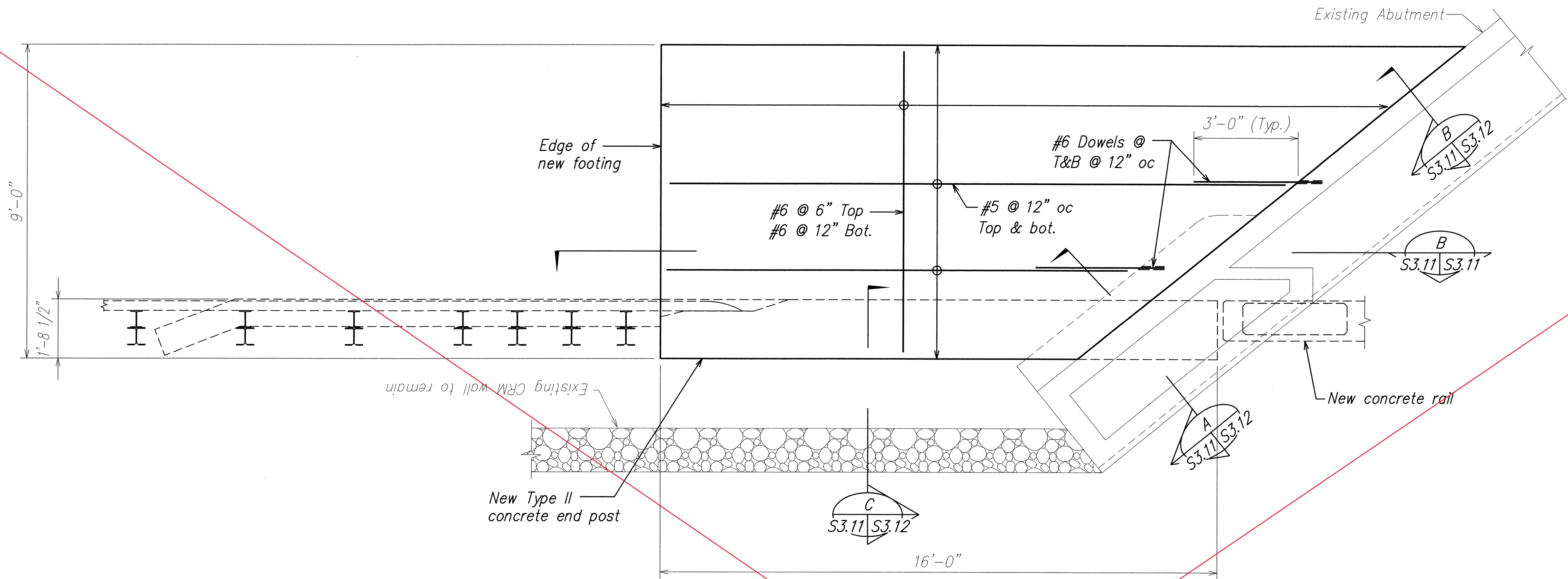


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Signature: David K. Fujimura
EXPIRATION DATE OF THE LICENSE: 4-30-04

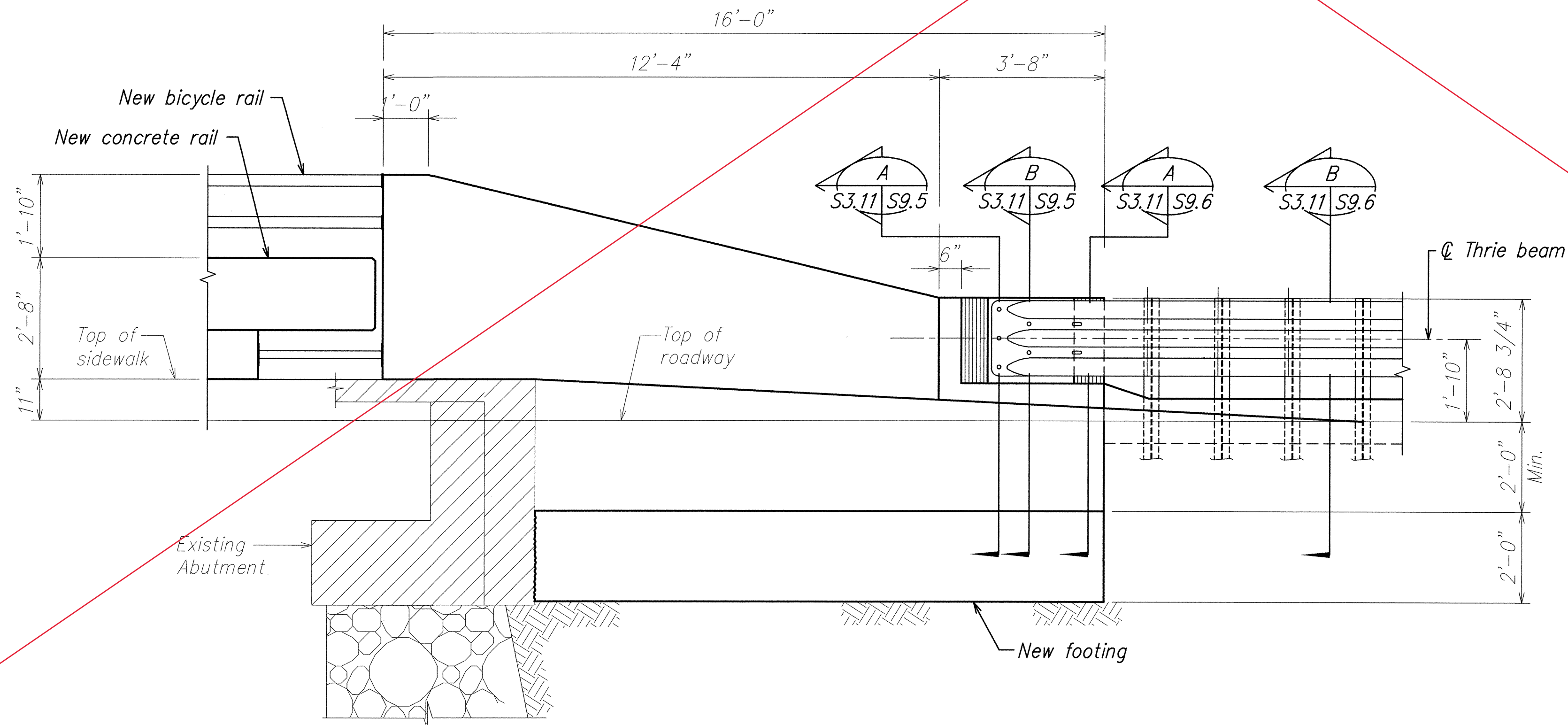
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
END POST EXIST. & DEMOLITION PLANS,
SECTS. & DTLS - KAWAILI BRIDGE
HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)
Scale: As Noted Date: April 2004
SHEET No. 61 OF 61 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	69	112



FOUNDATION PLAN TYPE II
CONCRETE END POST UPGRADE
SCALE: 1/2" = 1'-0"

N.I.C.



ELEVATION
SCALE: 1/2" = 1'-0"



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SIGNATURE: *David K. Fujiwara*
EXPIRATION DATE OF THE LICENSE: 4-30-04

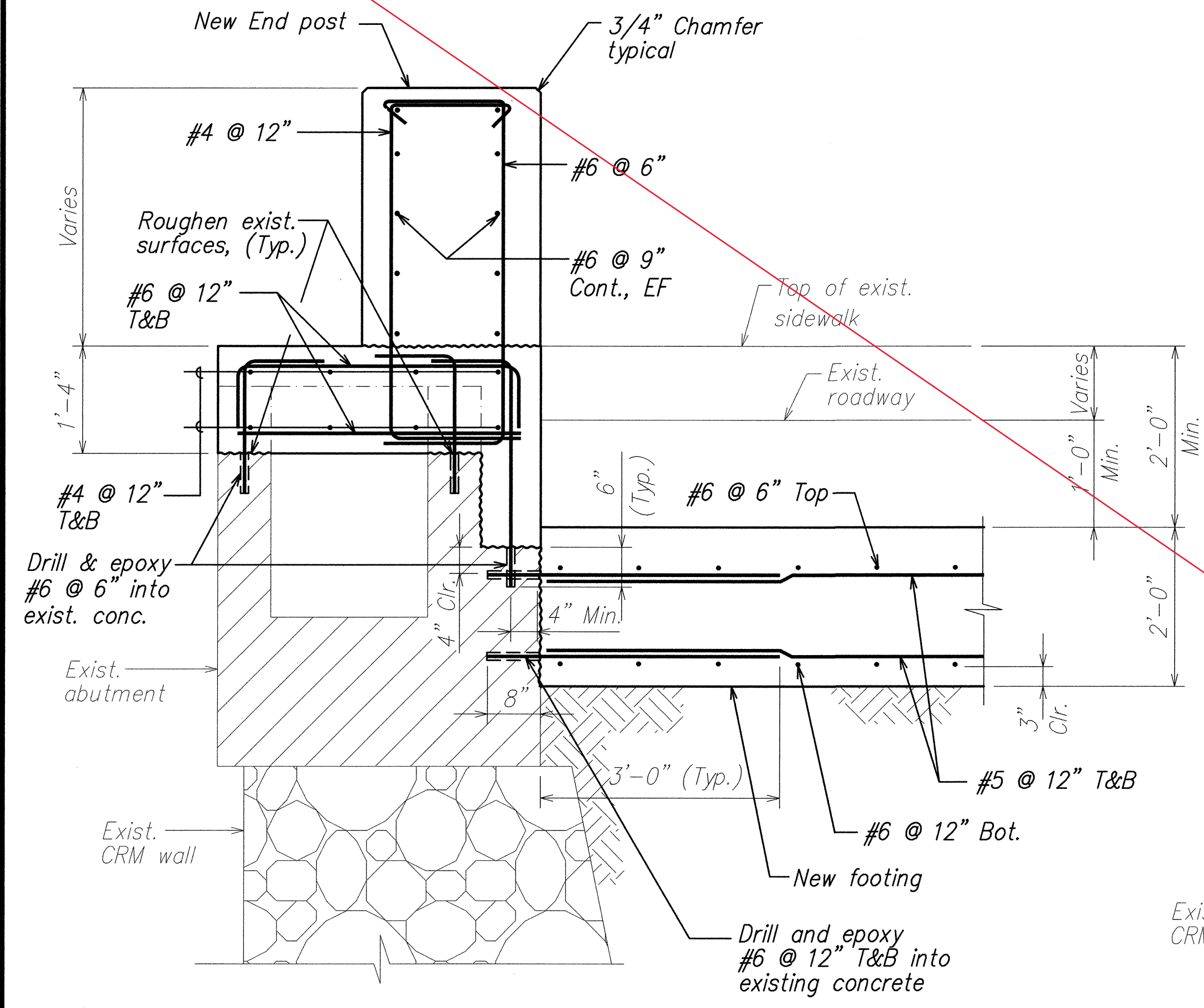
AS-BUILT

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW END POST PLAN & ELEVATION
KAWAII BRIDGE - HONOKAA/MAUKA
HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

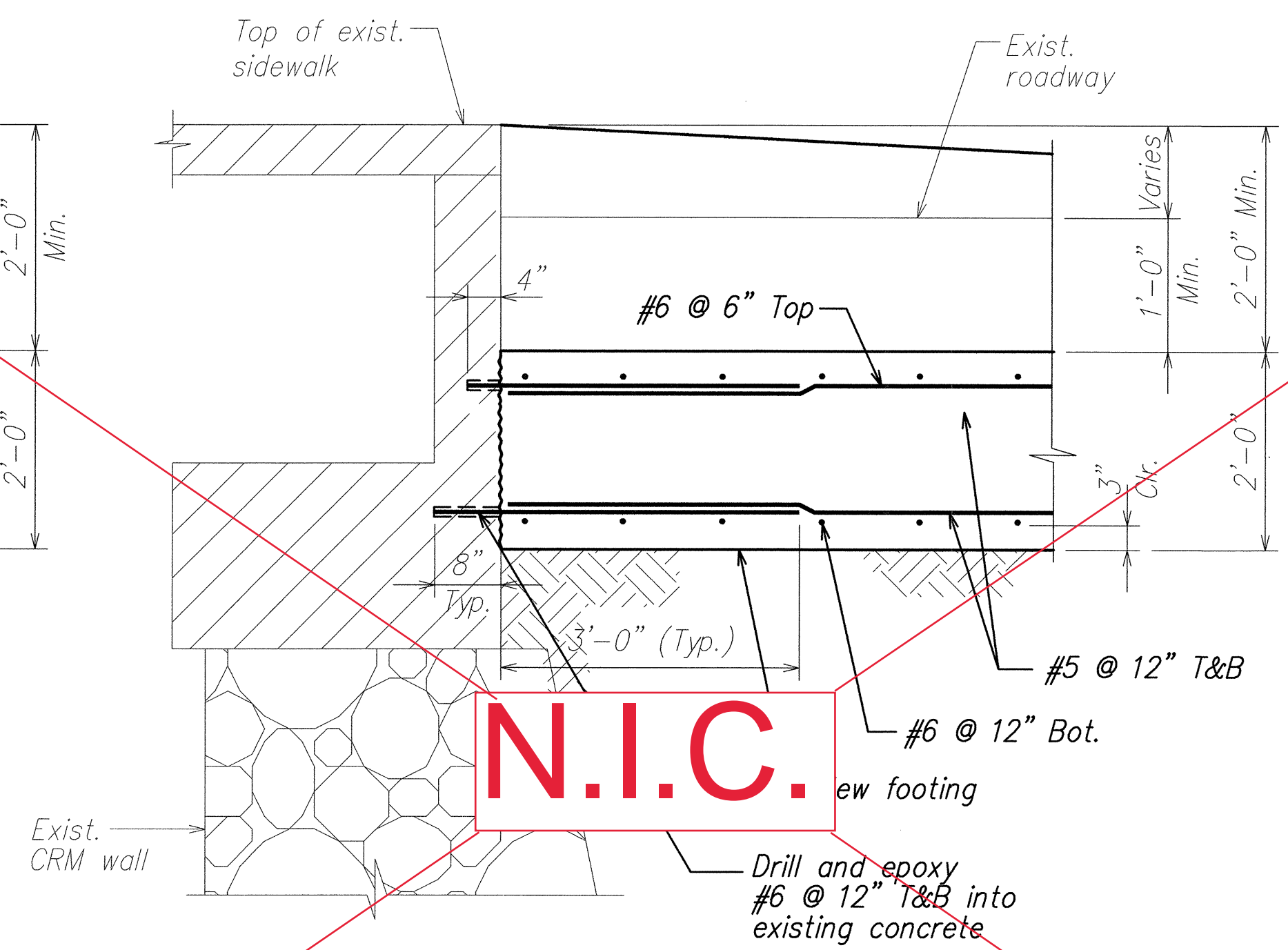
Scale: As Noted Date: April 2004

SHEET No. 61 OF 61 SHEETS

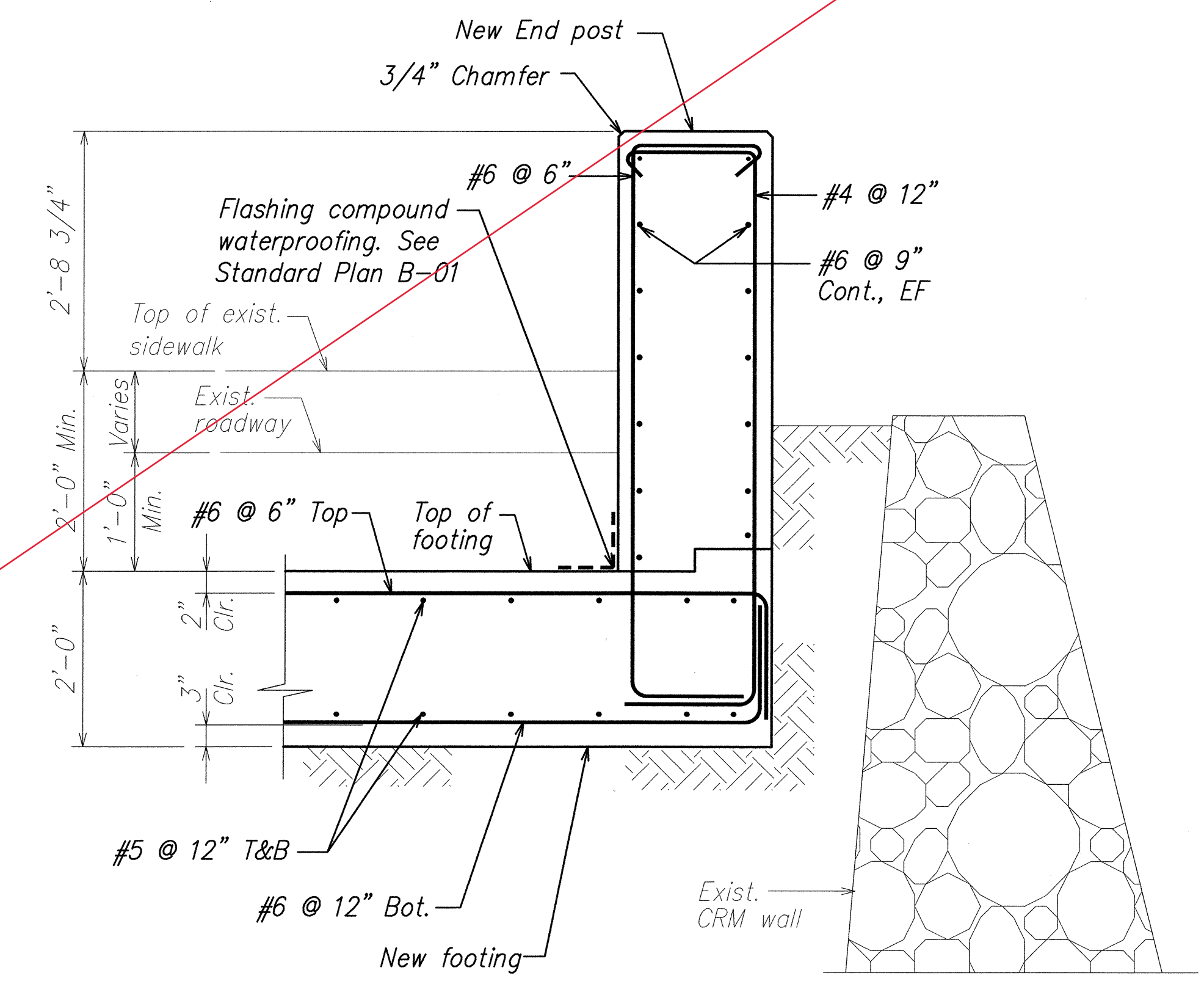
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	70	112



SECTION A
SCALE: 3/4" = 1'-0" S3.11 S3.12

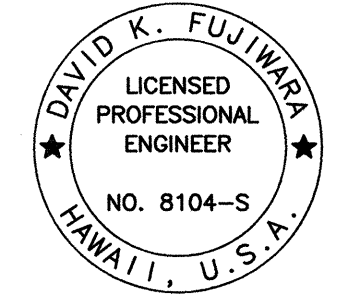


SECTION B
SCALE: 3/4" = 1'-0" S3.11 S3.12



SECTION C
SCALE: 3/4" = 1'-0" S3.11 S3.12

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	TRACED BY	
	CHECKED BY	
	QUANTITIES BY	
	CHECKED BY	



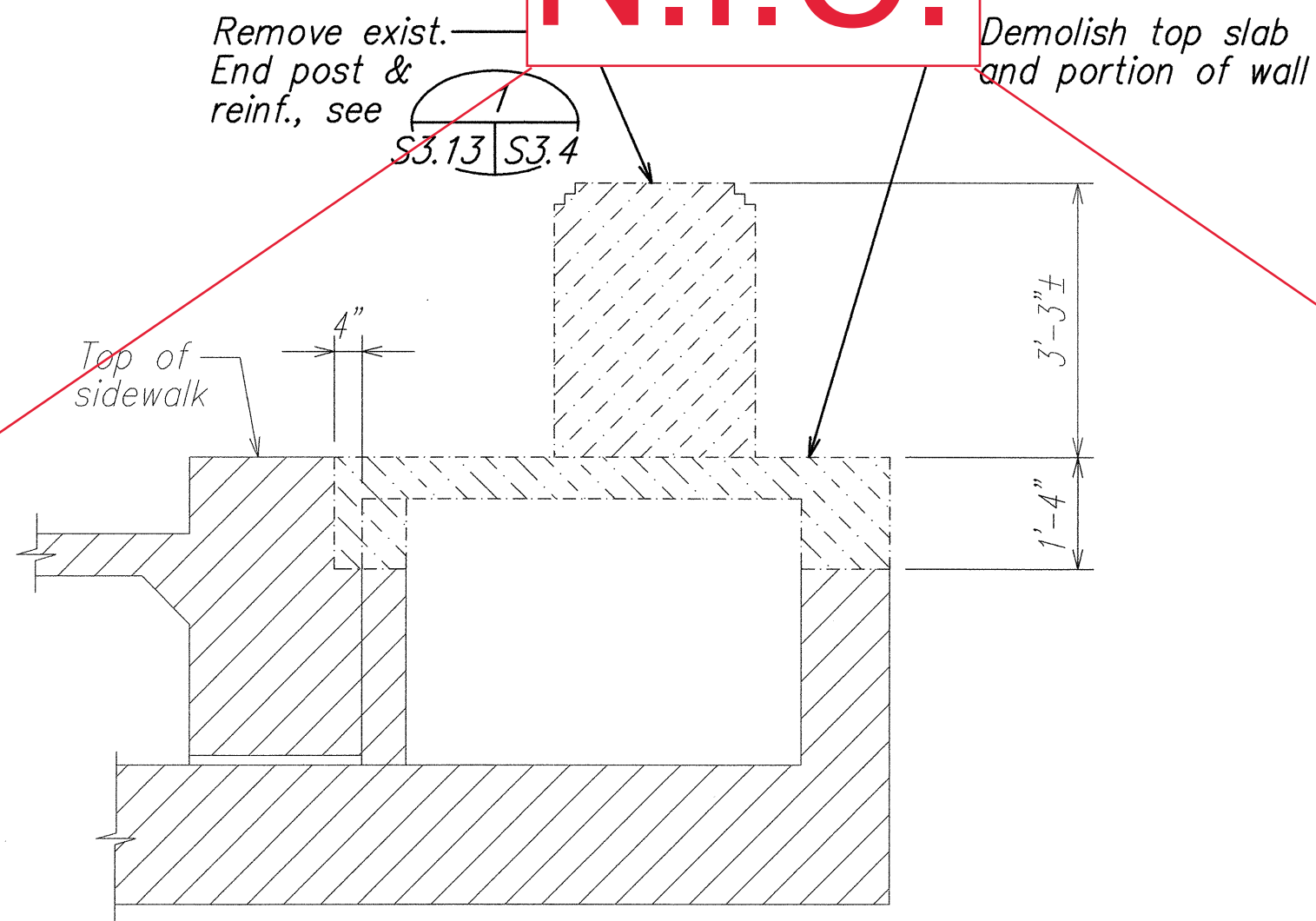
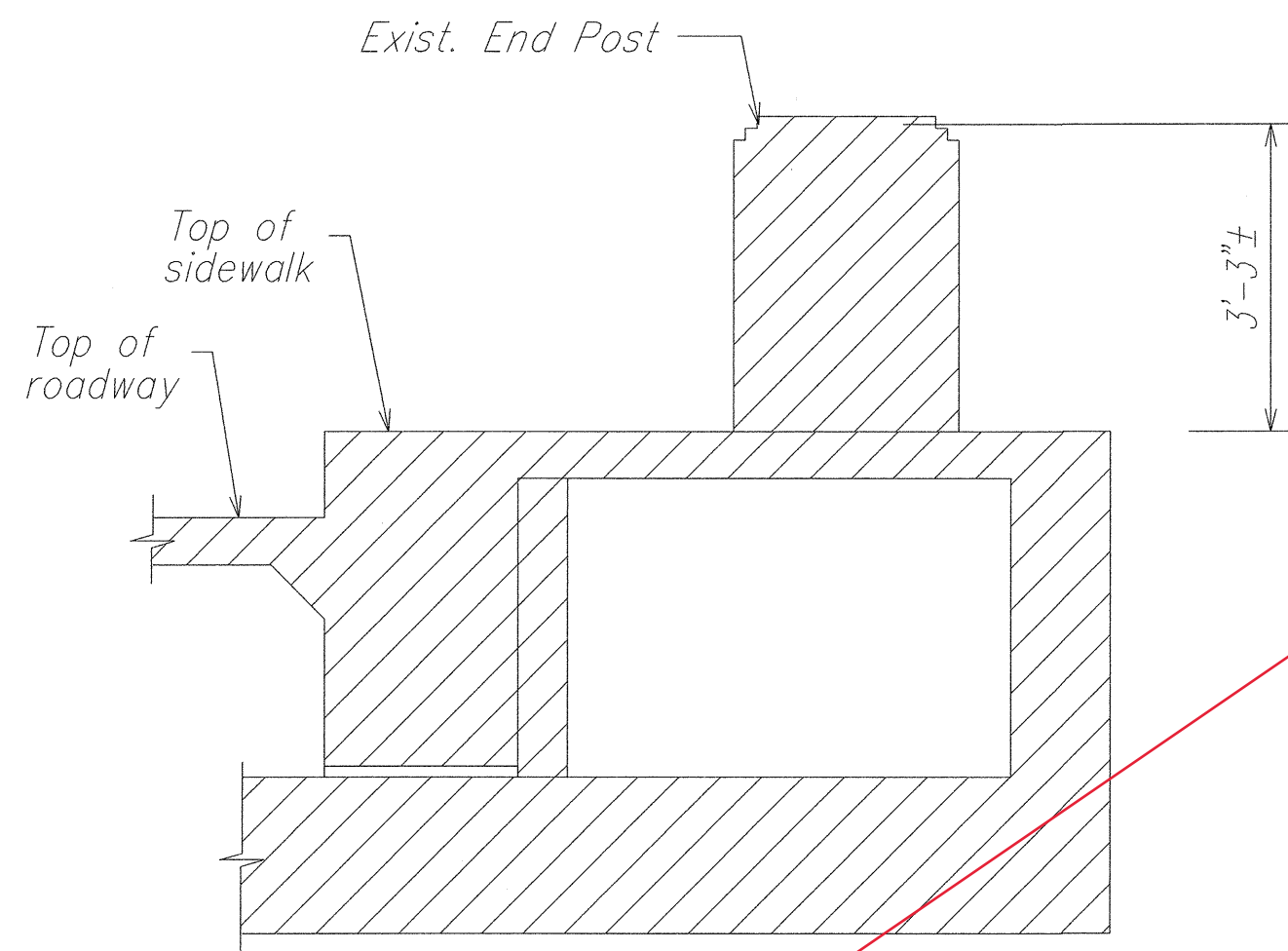
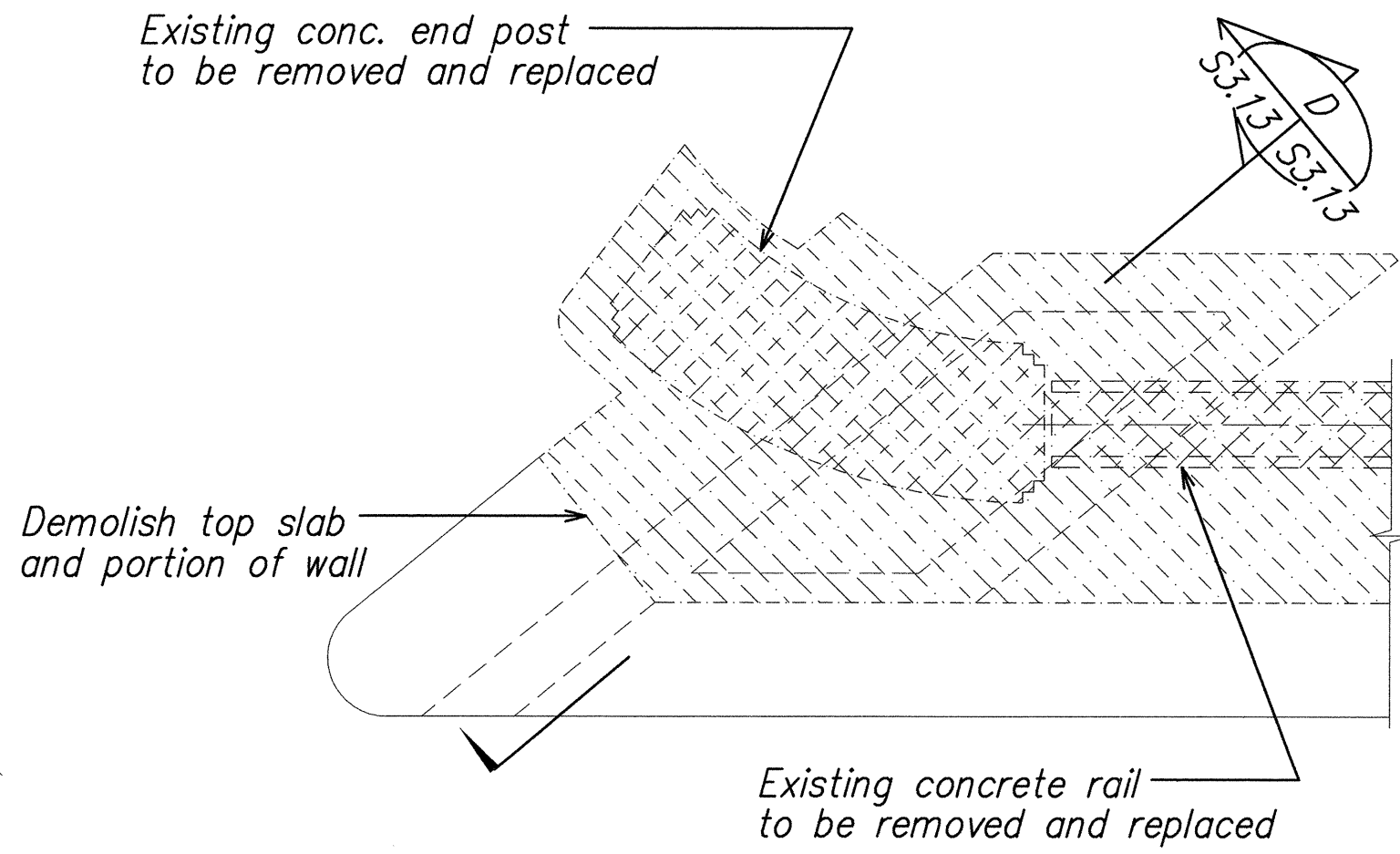
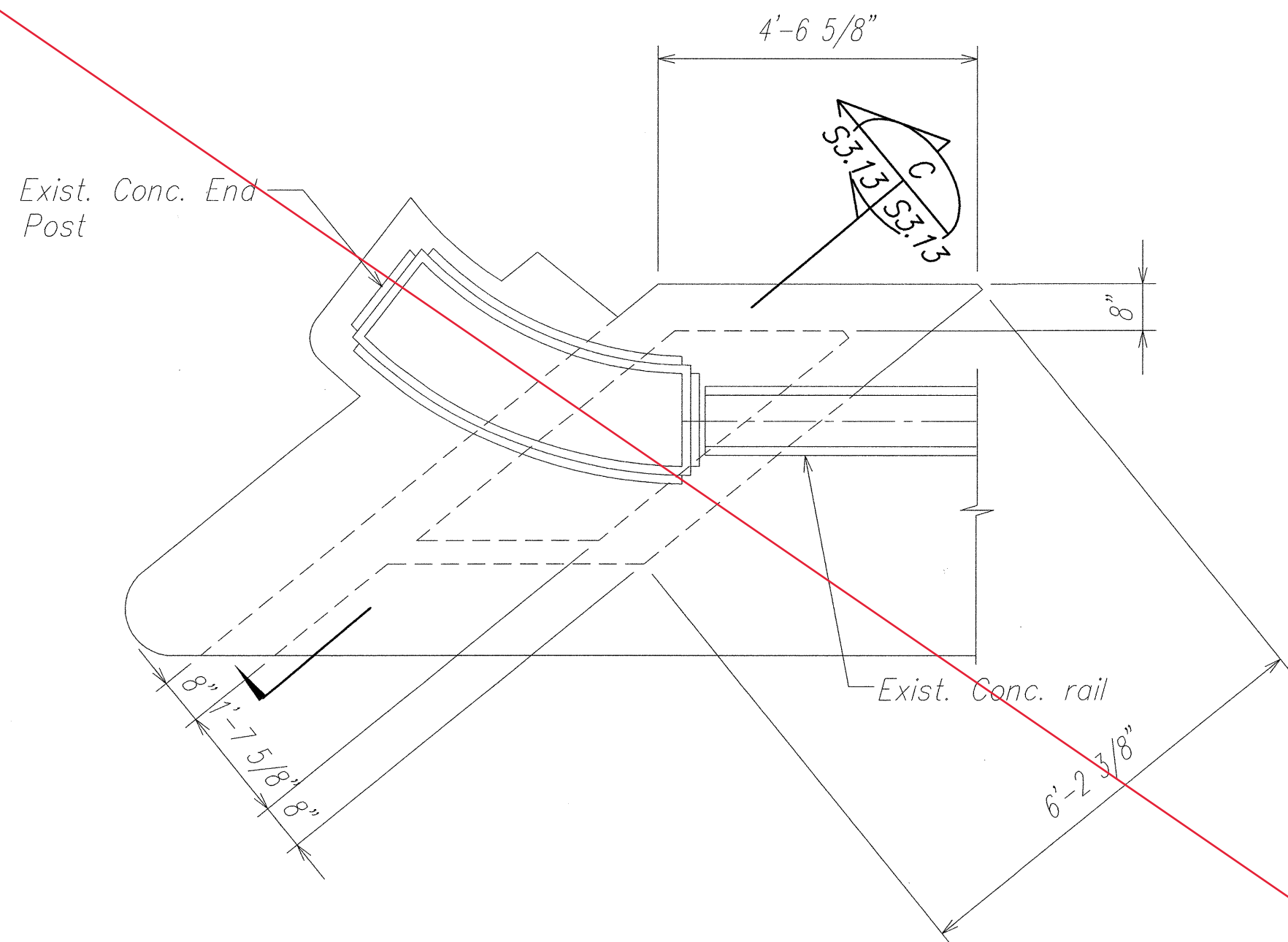
AS-BUILT

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Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

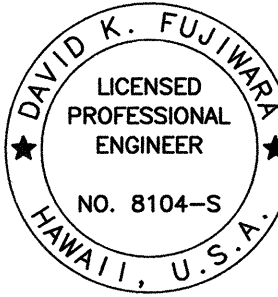
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW END POST SECTION AND DETAILS
KAWAILII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)
Scale: As Noted Date: April 2004
SHEET No. **S3.12** OF **61** SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	71	112



N.I.C.

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EXPIRATION DATE OF THE LICENSE: 4-30-04

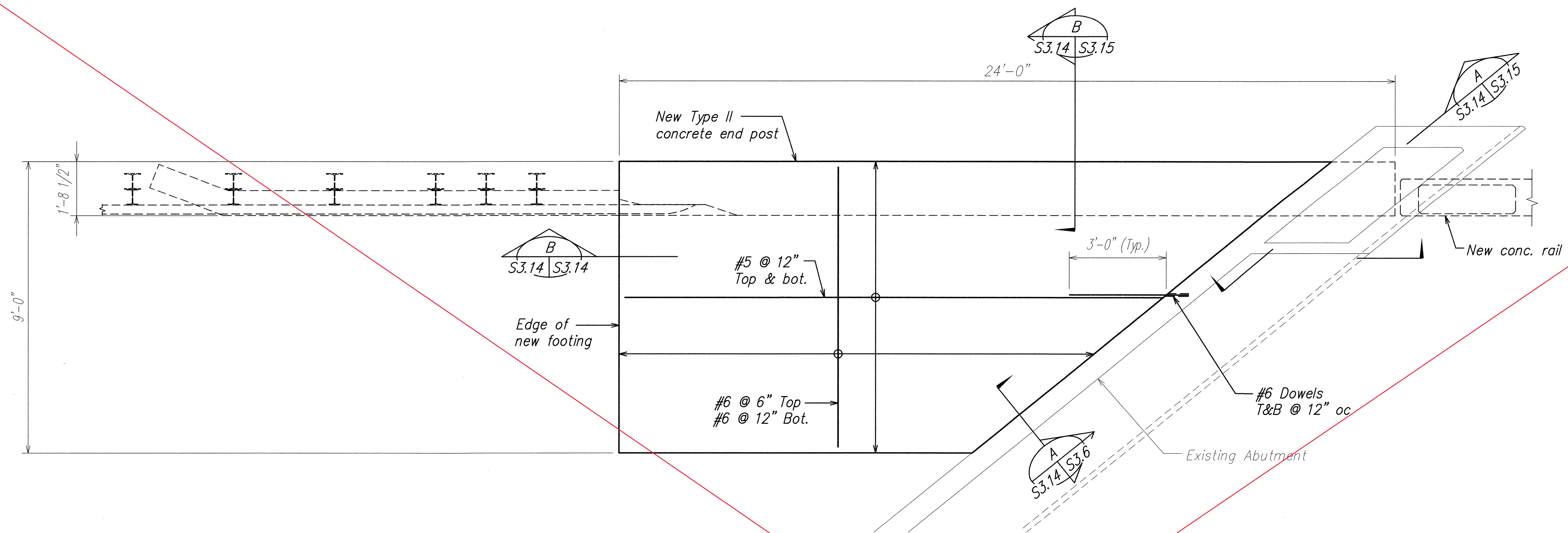
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

END POST EXIST. & DEMOLITION PLANS,
SECTS. & DTLS - KAWAII BRIDGE
HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

Scale: As Noted Date: April 2004

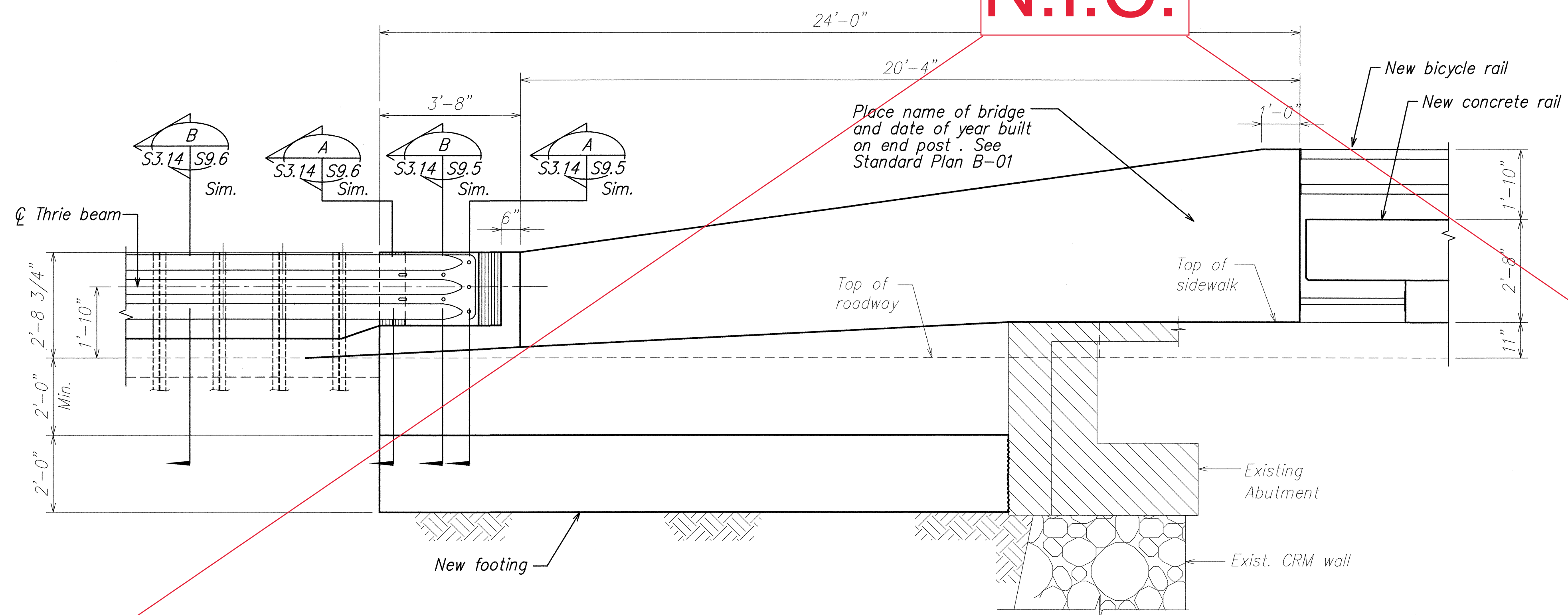
SHEET No. S3.13 OF 61 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	72	112

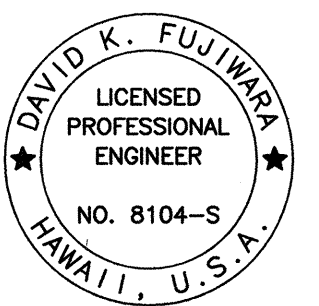


FOUNDATION PLAN TYPE II CONCRETE END POST UPGRADE
SCALE: 1/2" = 1'-0"

N.I.C.



ELEVATION
SCALE: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

AS-BUILT

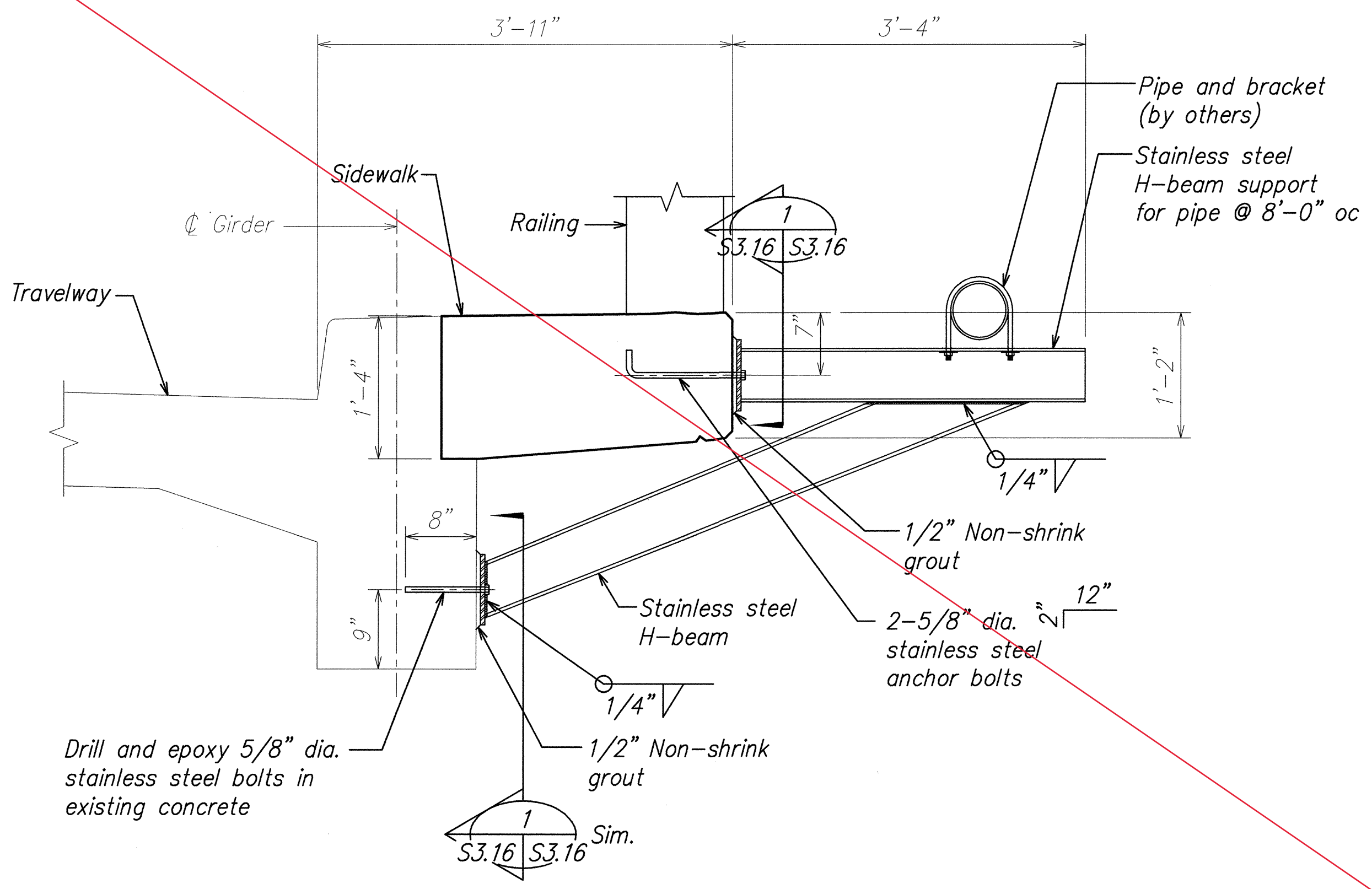
SIGNATURE: *David K. Fujiwara* 4-30-04
EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
NEW END POST PLAN & ELEVATION
KAWAILI BRIDGE - HONOKAA/MAKAI
HAWAII BELT ROAD RESURFACING
East Paaulo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)

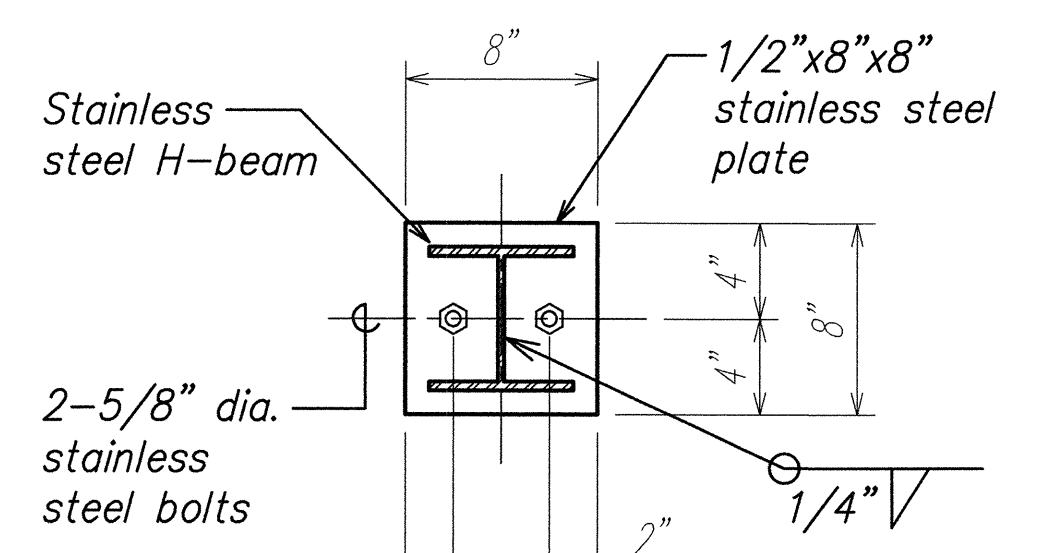
Scale: As Noted Date: April 2004

SHEET No. **S3.14** OF **61** SHEETS

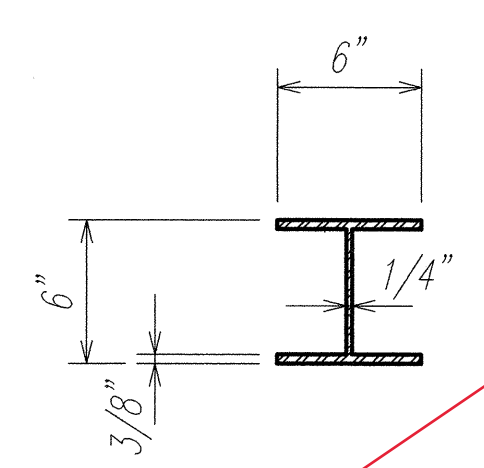
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-019-2(55)	2004	74	112



SECTION A
SCALE: 1" = 1'-0"



DETAIL SECTION 1
SCALE: 1 1/2" = 1'-0"

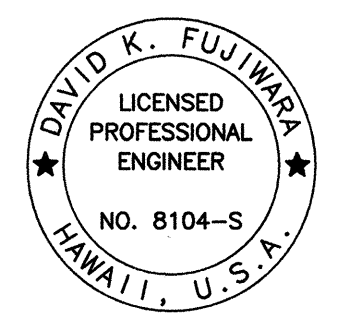


STAINLESS STEEL H-BEAM
SCALE: 1 1/2" = 1'-0"

N.I.C.

- NOTES:
1. All shapes, plates, bolts, nuts, and washers shall be AISI 304L stainless steel.
 2. Stainless steel members shall not come into contact with or shall be isolated from other types of steel including reinforcing bars. Procedures and isolating materials shall be approved by the Engineer.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	CHECKED BY	



AS-BUILT

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Signature: David K. Fujiwara
EXPIRATION DATE OF THE LICENSE: 4-30-04

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**PIPE BRACKET DETAILS
KAWAII BRIDGE**
HAWAII BELT ROAD RESURFACING
East Paauilo Bridge to Kaala Bridge
Federal Aid-Project No. NH-019-2(55)
Scale: As Noted Date: April 2004
SHEET No. **S3.16** OF **61** SHEETS