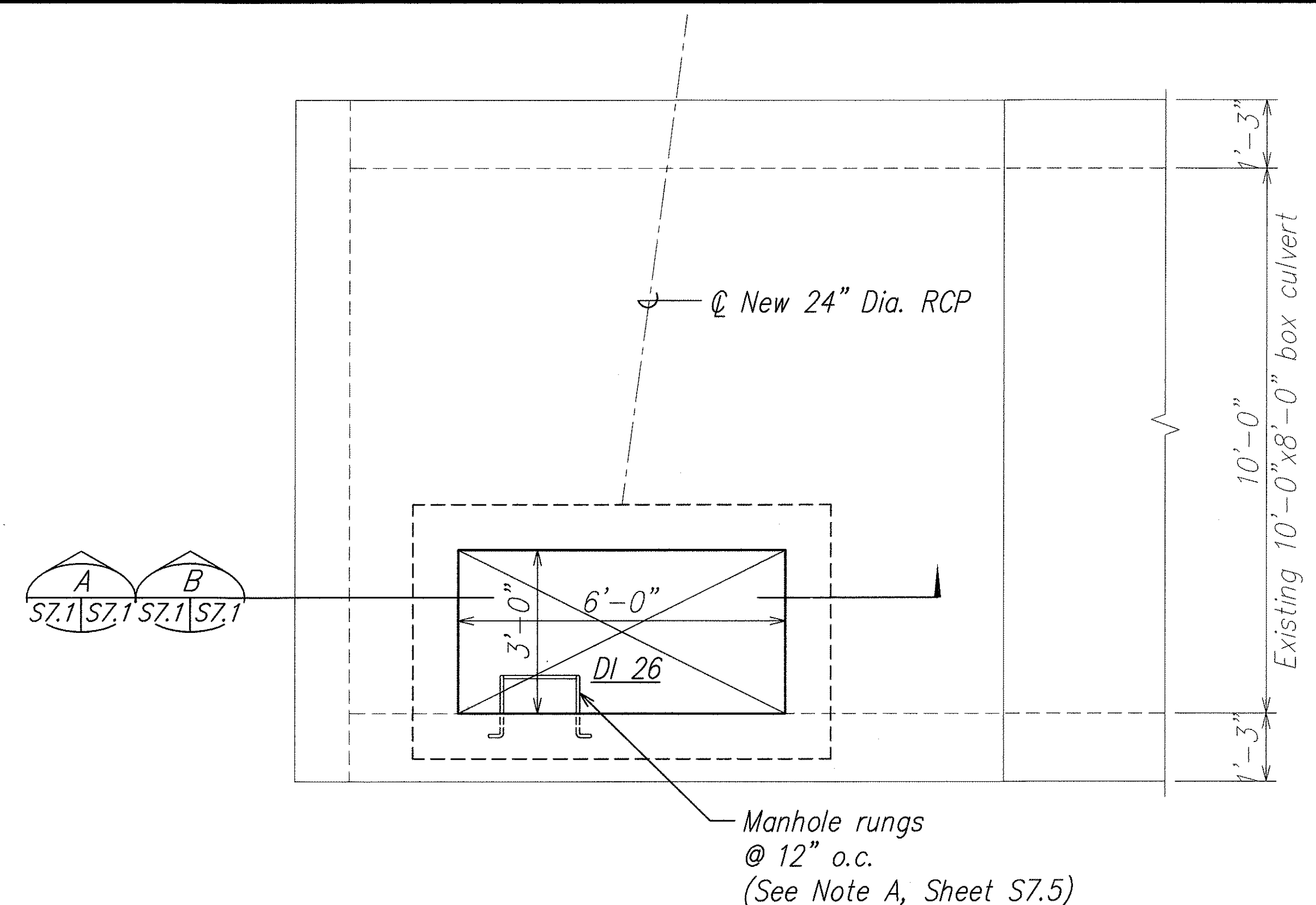
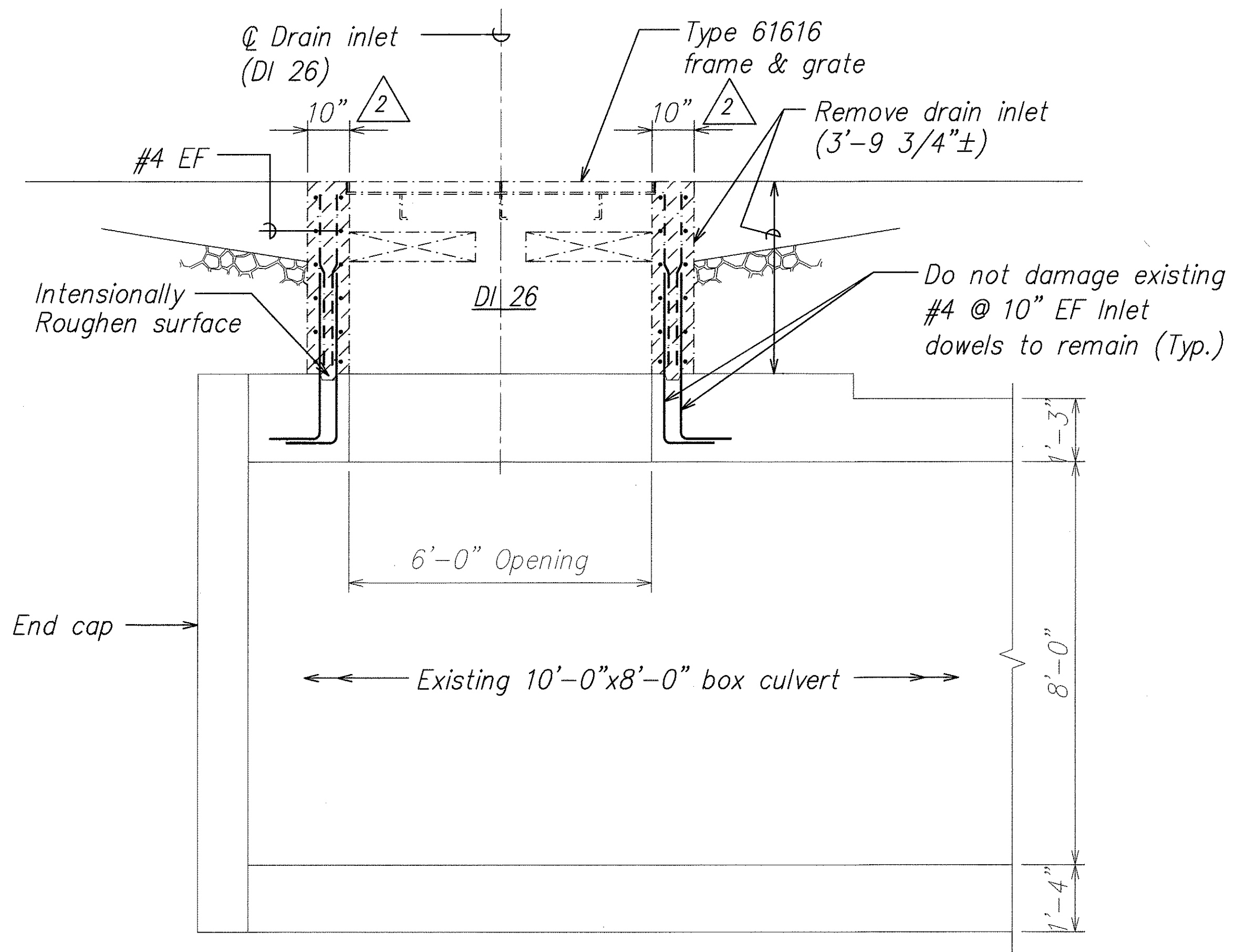


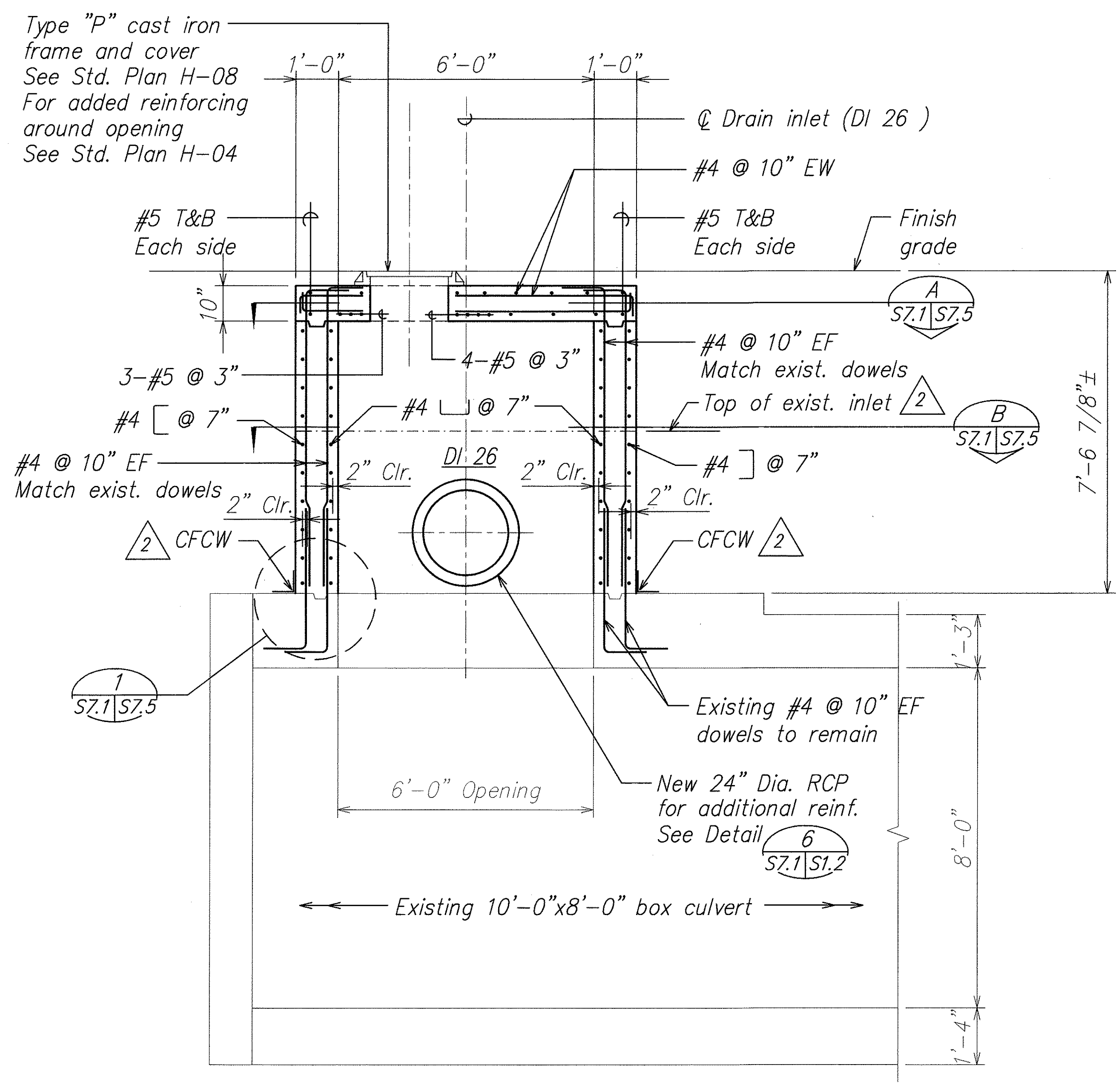
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	ADD. 248	331



EXISTING DRAIN CULVERT "D" - TOP SLAB PLAN AT DI 26
 Scale: 1/2" = 1'-0"



DI 26 REMOVAL WORK - SECTION A
 Scale: 1/2" = 1'-0"



DI 26 EXTENSION WORK - SECTION B
 Scale: 1/2" = 1'-0"

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

5/11/07	2	Revised and Added Notes, Revised Dimension
DATE		REVISION

DAVID K. FUJIMURA
 LICENSED PROFESSIONAL ENGINEER
 NO. 8104-S
 HAWAII, U.S.A.
 THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
 SIGNATURE: *David K. Fujimura*
 EXPIRATION DATE OF THE LICENSE: 4-30-08

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
DRAIN INLET EXTENSION
DI 26 PLAN AND SECTIONS
 North-South Road
 Phase 1B
 F.A.I. Proj. No. STP-8930(2)
 Scale: As Noted Date: Feb. 21, 2007
 SHEET No. S7.1 OF 78 SHEETS

Plan view of the proposed sewer line. The diagram shows the layout of the new 24-inch RCP and the existing 72-inch RCP (Drain Culvert "F").

Dimensions and labels:

- New 24" Dia. RCP
- 11'-6"
- 9'-0"
- 7'-3"
- 72" Dia. RCP (Exist.) (Drain Culvert "F")
- DI 38
- 7'-3"
- 11'-6"
- 7'-3"

The plan view shows the proposed sewer line (New 24" Dia. RCP) and the existing 72" Dia. RCP (Drain Culvert "F"). The dimensions indicate the length of the new line (11'-6") and the existing culvert (11'-6"). The manhole locations are marked with 7'-3" dimensions. A detail of the manhole structure is shown with a 38-inch diameter opening.

Technical drawing of a bridge deck cross-section showing the removal of a drain inlet. The drawing includes dimensions for the deck width (6'-0" total, with 1'-0" on each side of the centerline) and the depth of the drain inlet (1'-9"). It also shows the location of the existing #4 reinforcement bars (EF) and the existing 72-inch diameter RCP (Drain Culvert "F"). The drawing is labeled "Type 61616 frame & grate" and "Remove drain inlet (6'-11 1/2"±)". A note states "Do not damage existing #4 @ 10" EF Vert. dowels to remain (Typ.)". The drawing is identified as "DI 38".

Type "P" cast iron
frame and cover
See Std. Plan H-08
For added reinforcing
around opening
See Std. Plan H-04

1'-0" 6'-0" 1'-0"

Ø Drain inlet (DI 38)

#4 @ 10" EW

#5 T&B Each side

Finish grade

Top of exist. inlet

3-#5 @ 3"

4-#5 @ 3"

#4 @ 10" EF Match exist. dowels

#4 [@ 7"

#4] @ 7"

Lap 2'-0"

CFCW 6"

Existing #4 @ 10" EF dowels to remain

New 24" Dia. RCP for additional reinf.
See Detail 6

Ø 72" Dia. RCP (Exist.)
(Drain Culvert "F")

Dimensions:
8'-9 7/8" ±
10"
2" Clr.
2" Clr.
2" Clr.

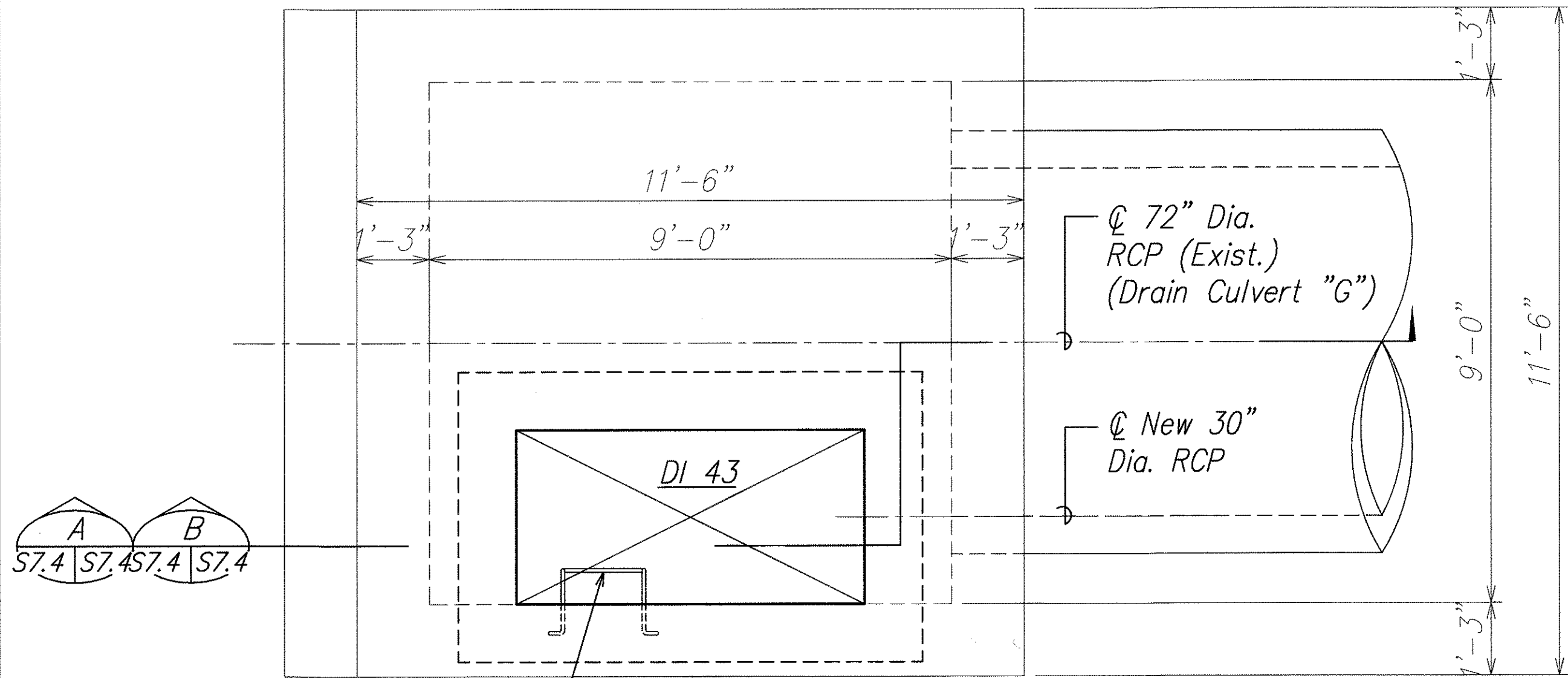
Notes:
Type "P" cast iron frame and cover See Std. Plan H-08 For added reinforcing around opening See Std. Plan H-04
CFCW 6"
Lap 2'-0"
CFCW 6"
New 24" Dia. RCP for additional reinf. See Detail 6
Ø 72" Dia. RCP (Exist.) (Drain Culvert "F")

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

5/11/07	 Revised and Added Notes
DATE	REVISION

ADD. 250

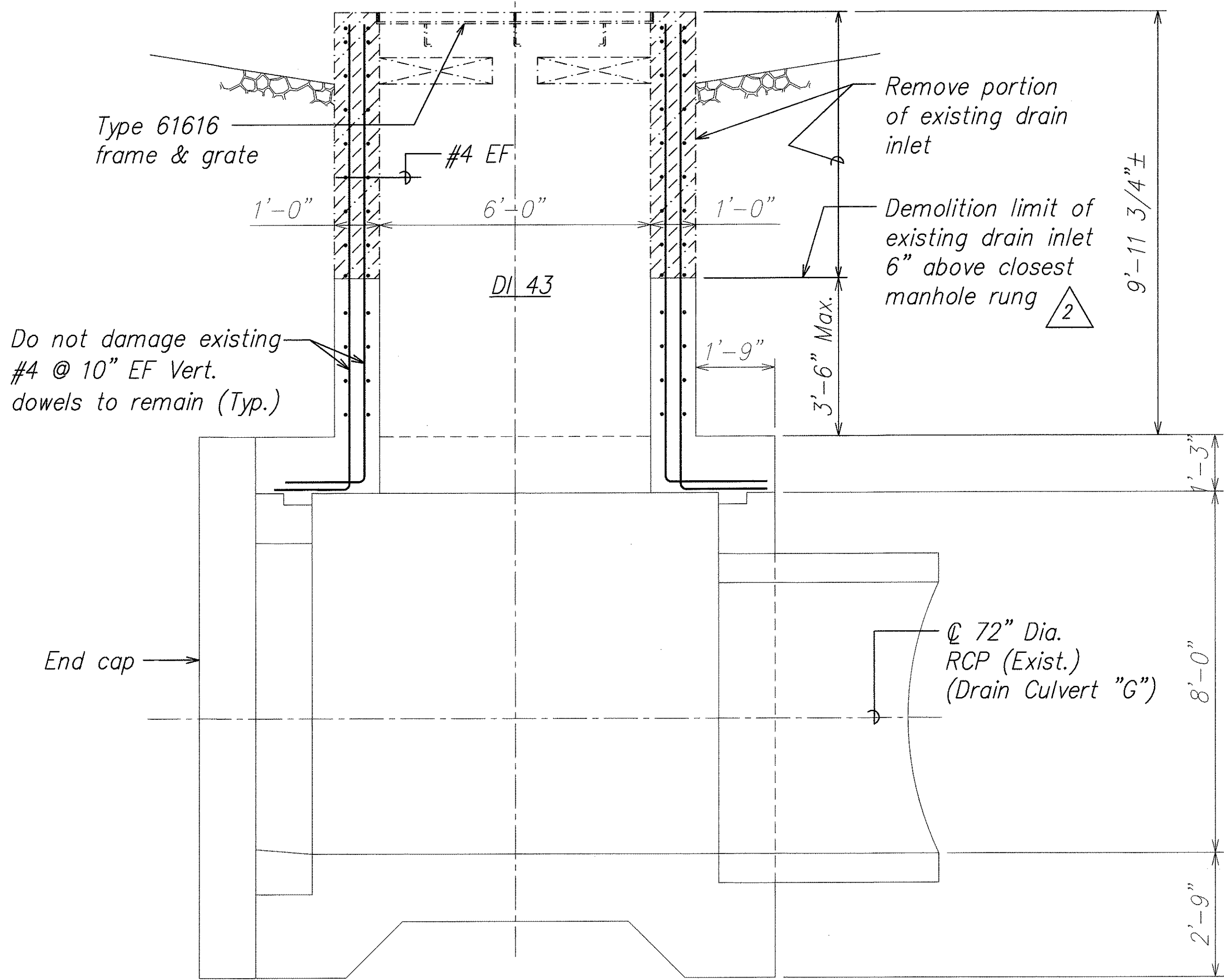
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	ADD. 251	331



Manhole rungs @ 12" oc
See Std. Plan
(See Note "A", Sheet S7.5)

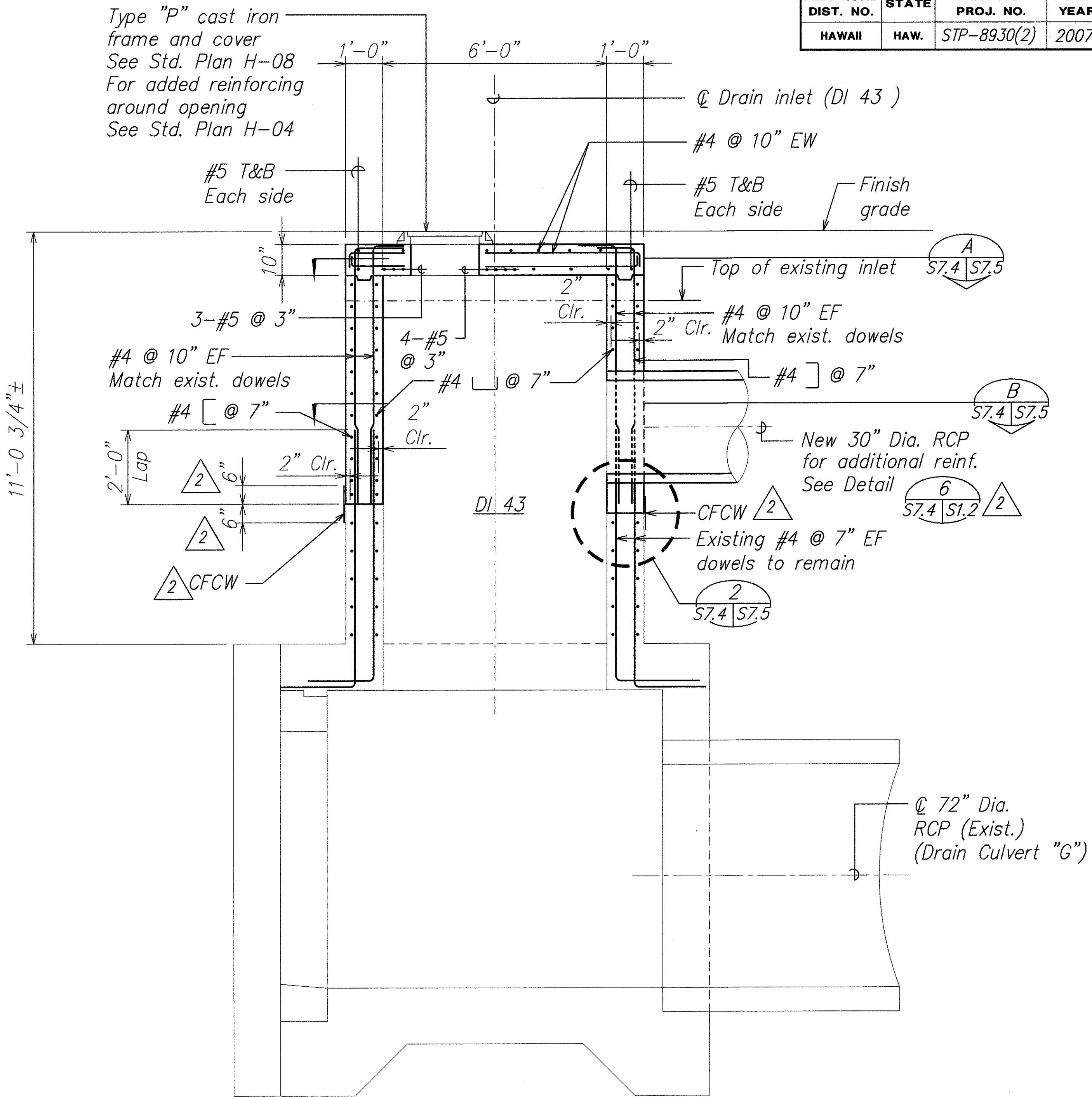
EXISTING DRAIN CULVERT "G" - SECTION AT DI 43

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



DI 43 REMOVAL WORK - SECTION A

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

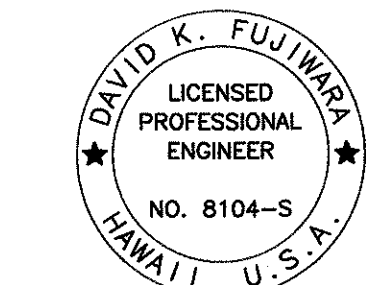


DI 43 EXTENSION WORK - SECTION B

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

ORIGINAL PLAN	DATE
NOTE BOOK	DESIGNED BY
	QUANTITIES BY
	CHECKED BY
	No.

5/11/07	2 Revised and Added Notes
DATE	REVISION



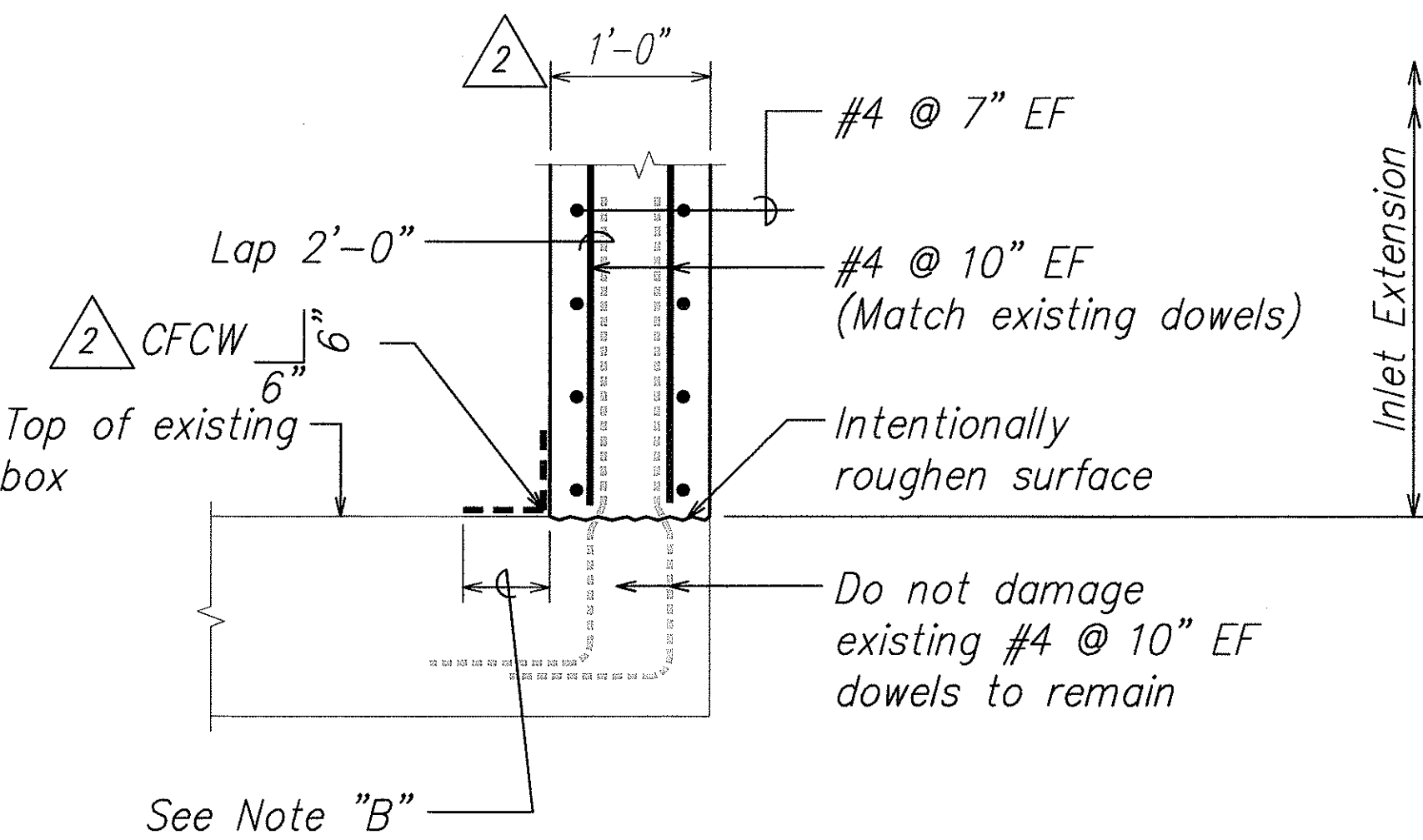
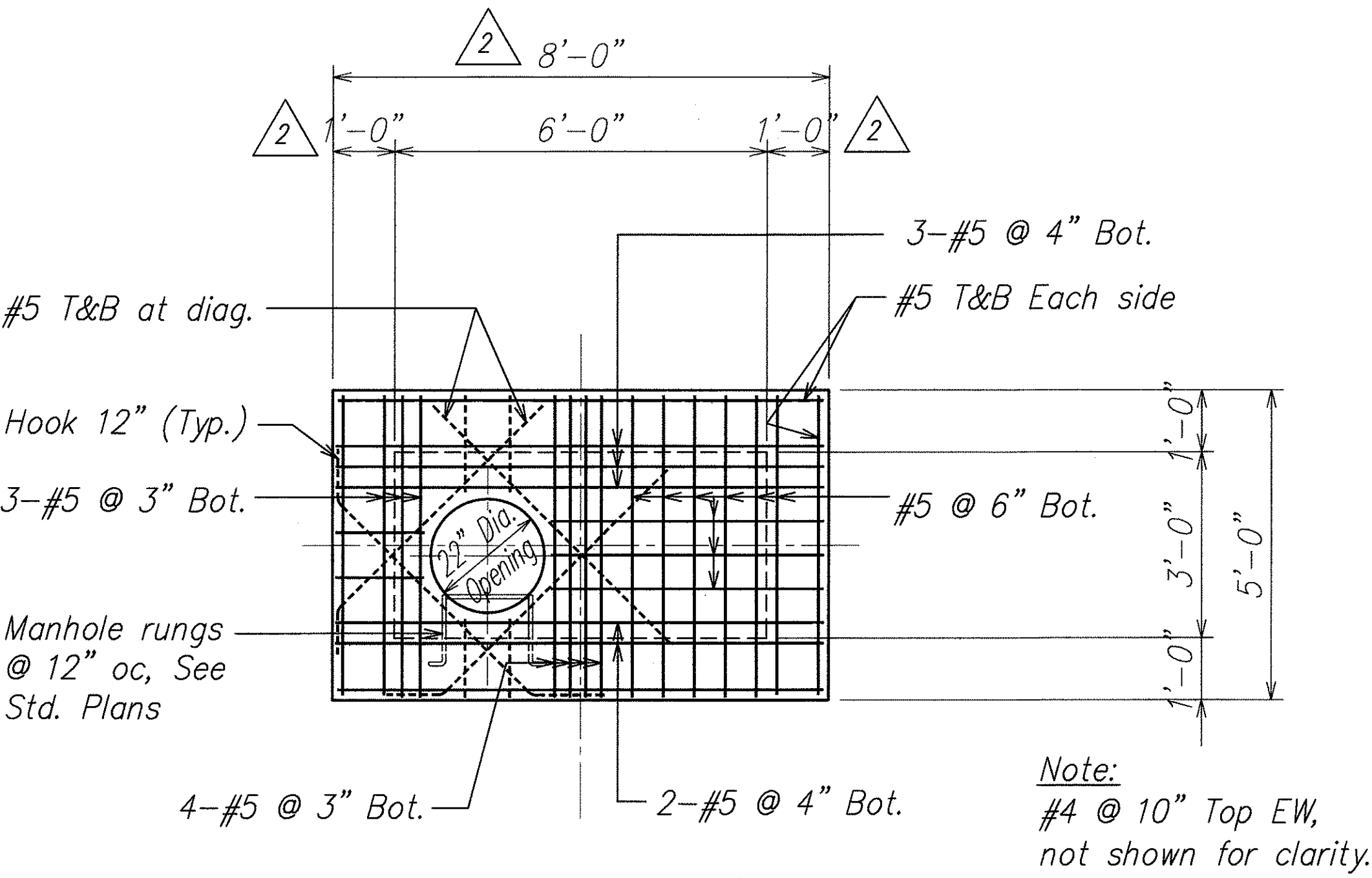
THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Signature: David K. Fujiwara
Expiration Date of License: 4-30-08

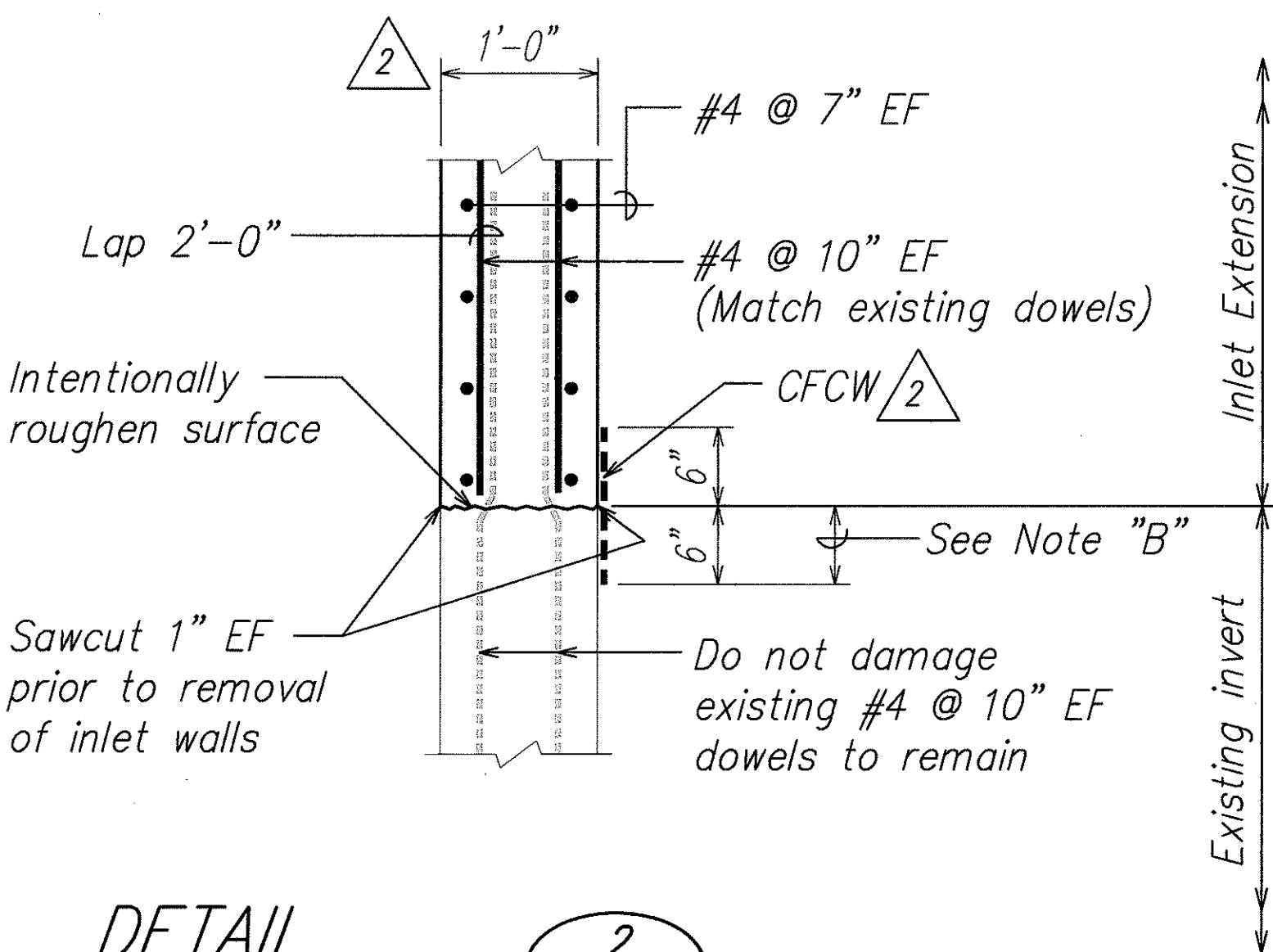
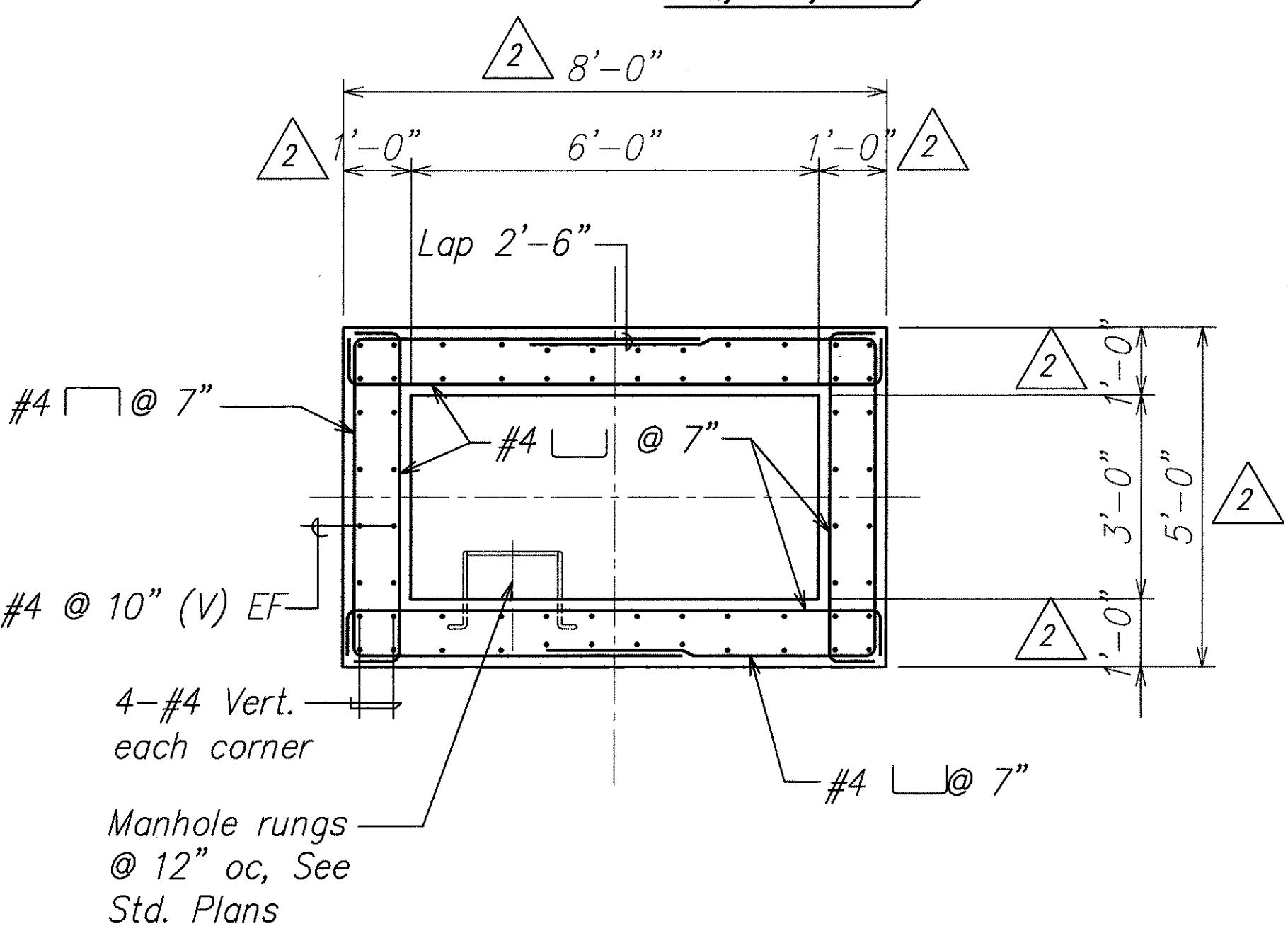
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAIN INLET EXTENSION
DI 43 PLAN AND SECTIONS
North-South Road
Phase 1B
F.A.I. Proj. No. STP-8930(2)
Scale: As Noted Date: Feb. 21, 2007
SHEET No. 57.4 OF 78 SHEETS

ADD. 251

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-8930(2)	2007	ADD. 252	331



- Notes:
- A. New manhole rungs shall begin 12" above the topmost existing rung of the remaining box structure. Submit rung location and spacing with reinforcing shop drawings for review and approval.
 - B. Clean existing surface prior to application of continuous flashing compound waterproofing.



5/11/07	2	<i>Revised Notes and Dimensions</i>
DATE	REVISION	
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <u>DRAIN INLET EXTENSION</u> <u>TYPICAL TOP SLAB PLAN AND SECTION</u> <u>North-South Road</u> <u>Phase 1B</u> <u>F.A.I. Proj. No. STP-8930(2)</u> Scale: As Noted Date: Feb. 21, 2007		
SHEET No. 57.5 OF 78 SHEETS		

ORIGINAL PLAN	SURVEY PLATTED BY	DATE
NOTE BOOK	DRAWN BY	
	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	

DAVID K. FUJIMURA
LICENSED PROFESSIONAL ENGINEER
NO. 8104-S
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Signature: David K. Fujimura
4-30-08
SIGNATURE EXPIRATION DATE OF THE LICENSE