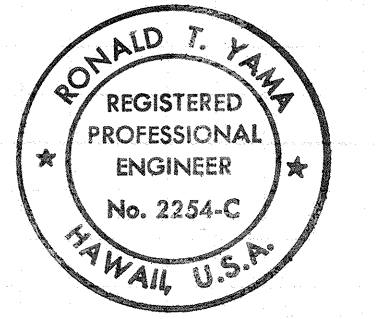
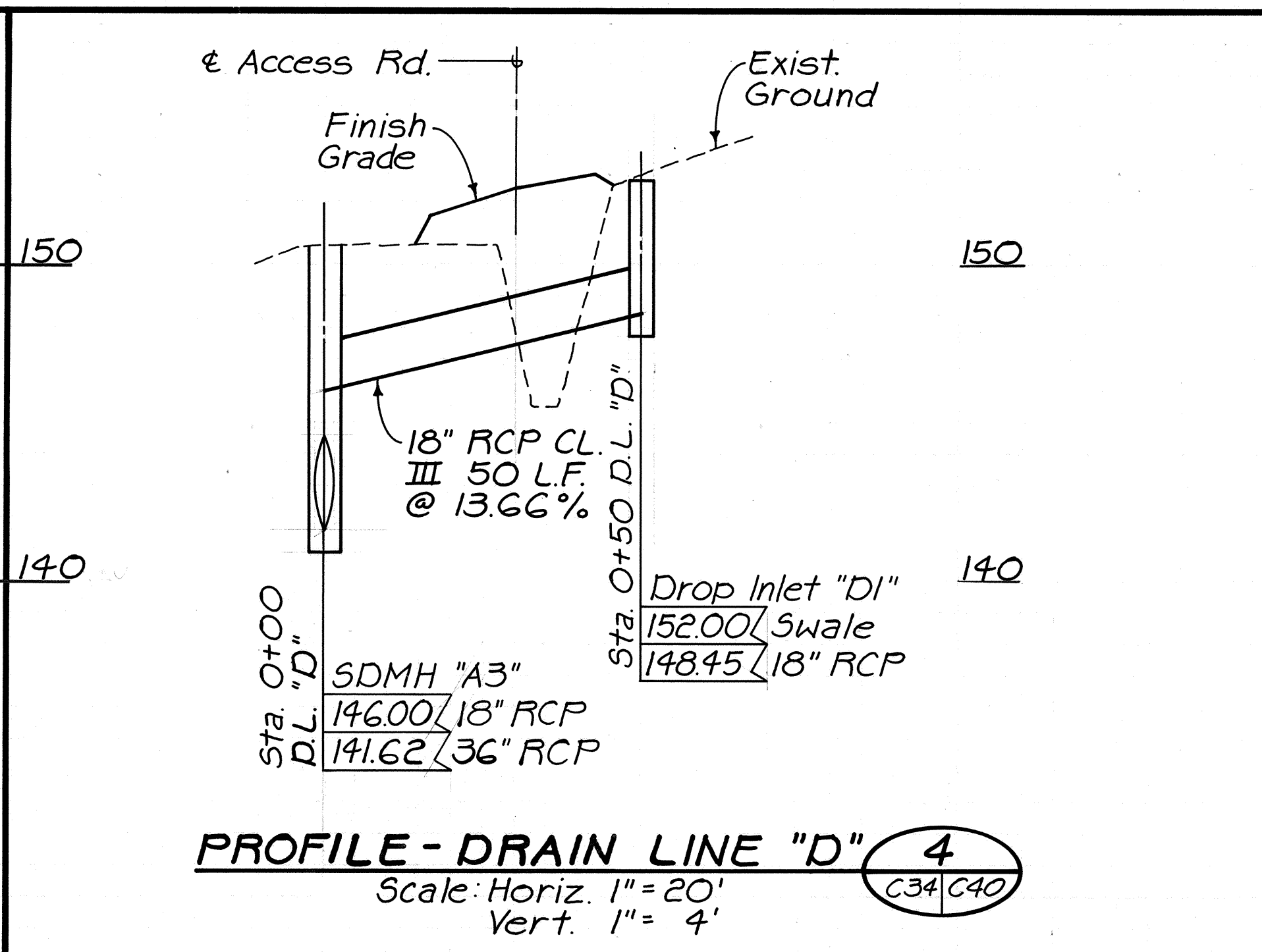
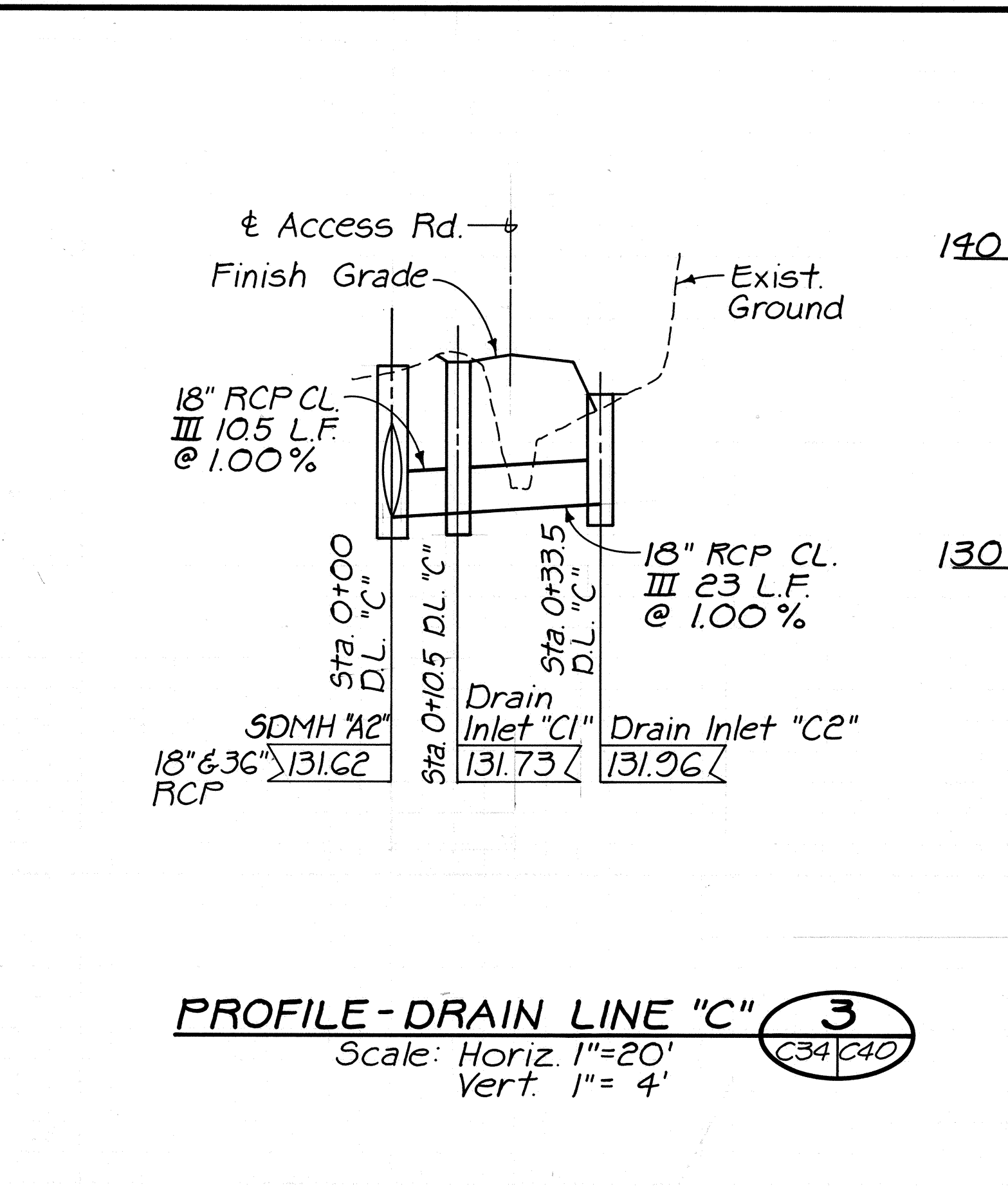
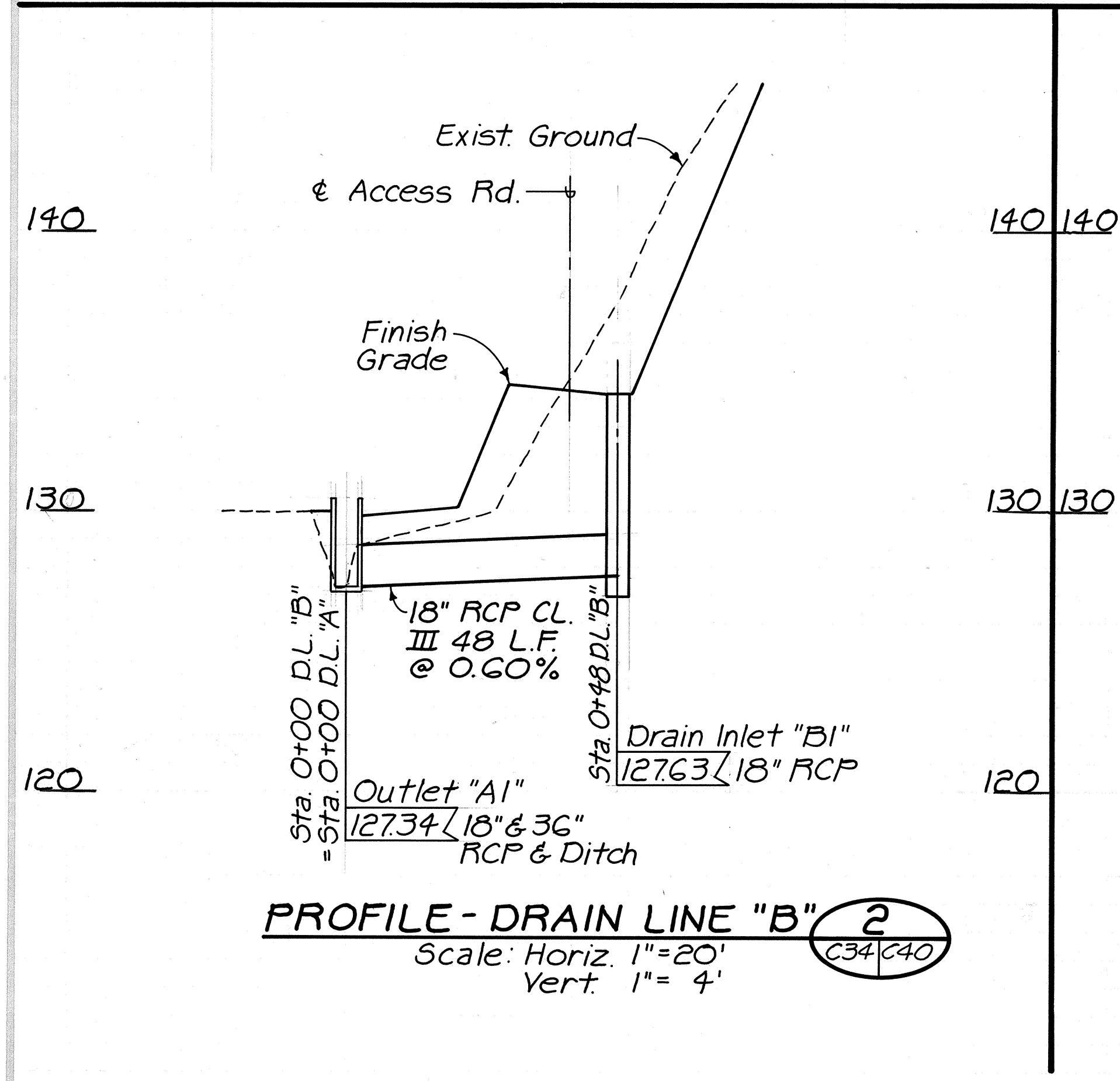
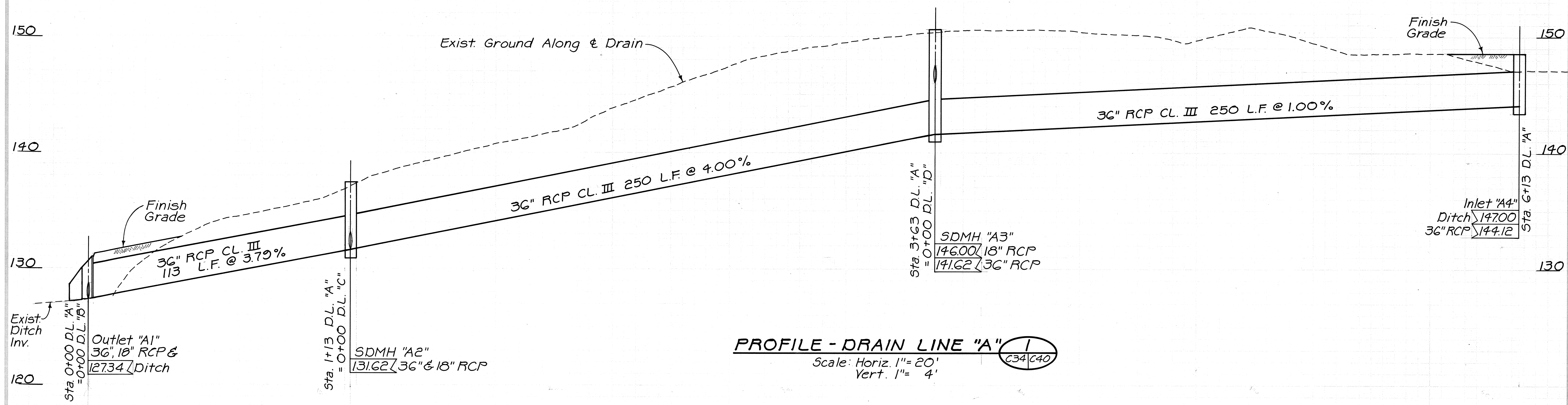


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(203)	1987	42	87



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Ronald T. Yama

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DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

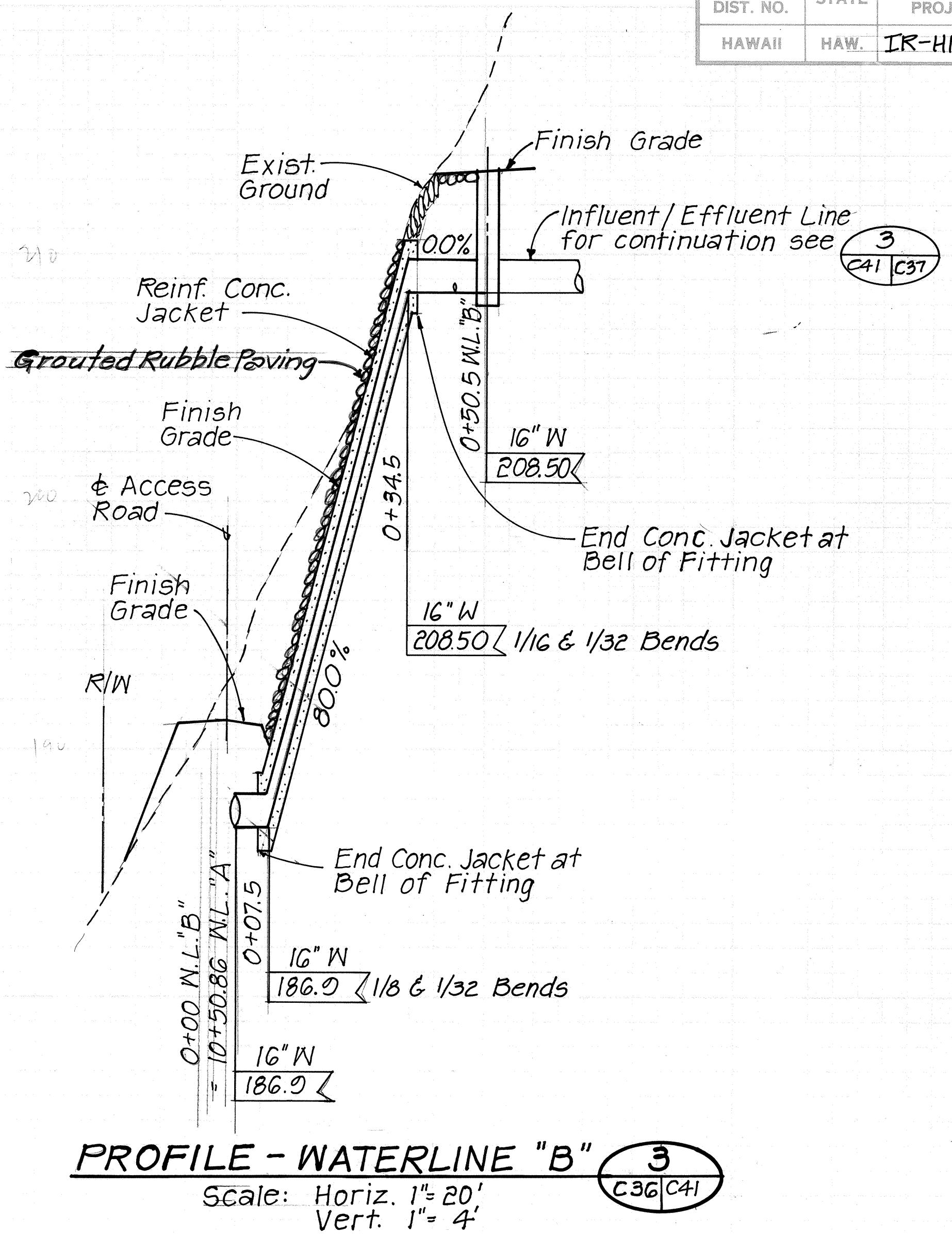
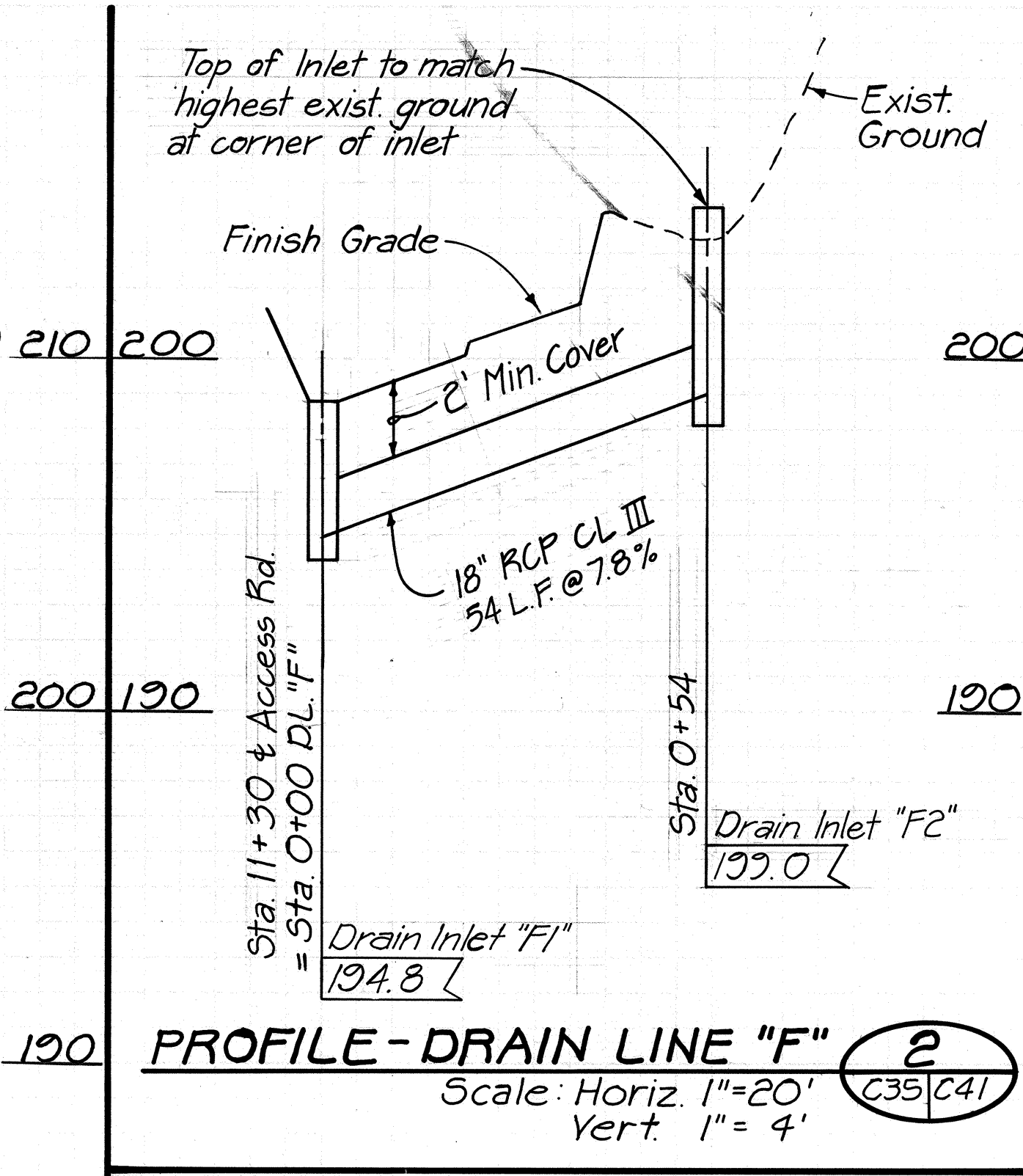
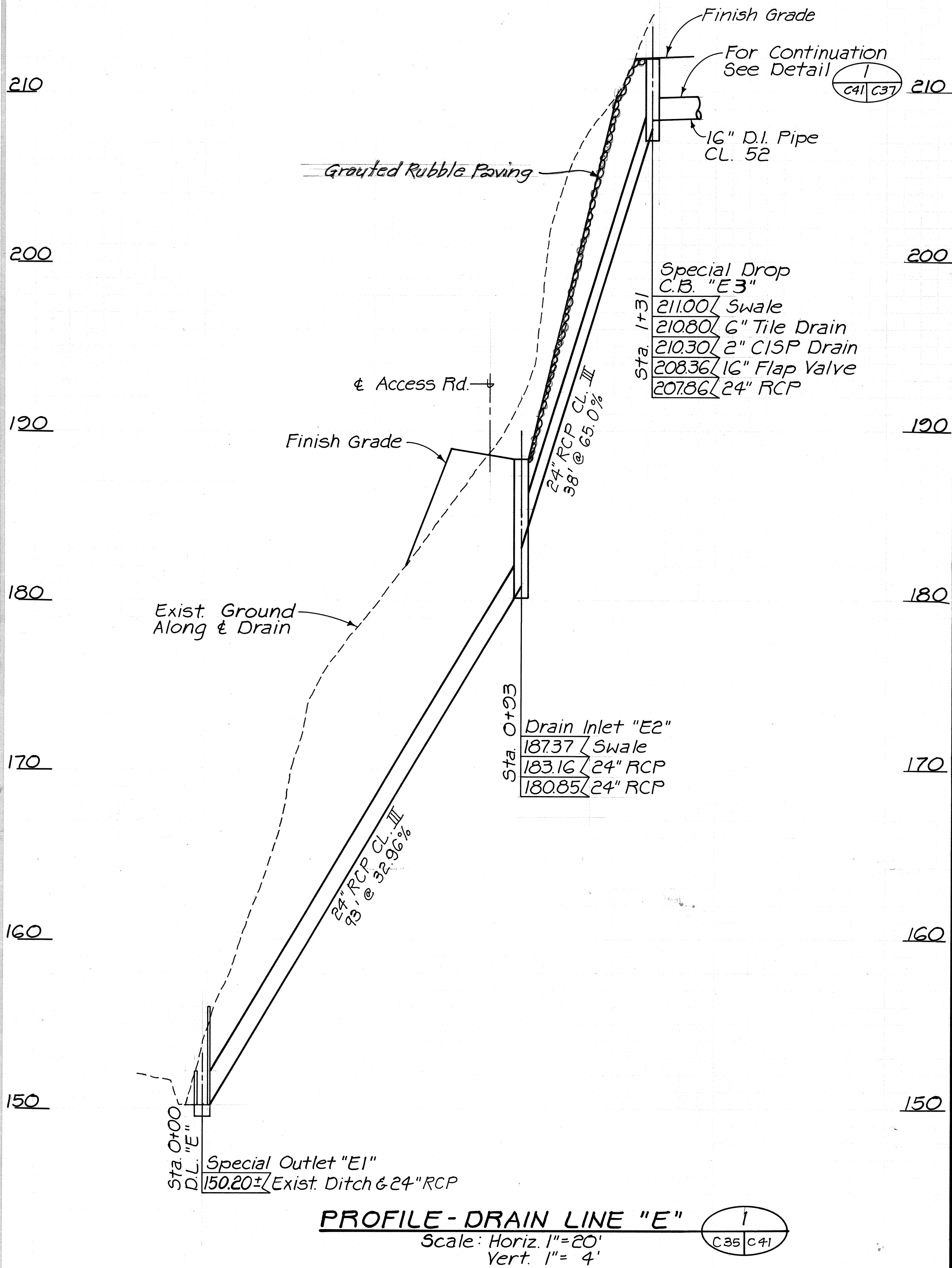
DRAINAGE PROFILES

H-I NON-POTABLE WATER SYSTEM
KALAUAO SPRINGS TO HALAWA RESERVOIR
F.A.I. PROJ. NO. IR-HI-1 (203)

SCALE: AS SHOWN DATE: 1/20/87

SHEET No. 64 OF 64 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(203)	1987	43	87



ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	

9/3/87	Revised D.L. "F" Profile
DATE	REVISION
APPROVED:	
CHIEF, PLANNING & ENGINEERING DIV., BWS	DATE 9/3/87

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Ronald T. Yam

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

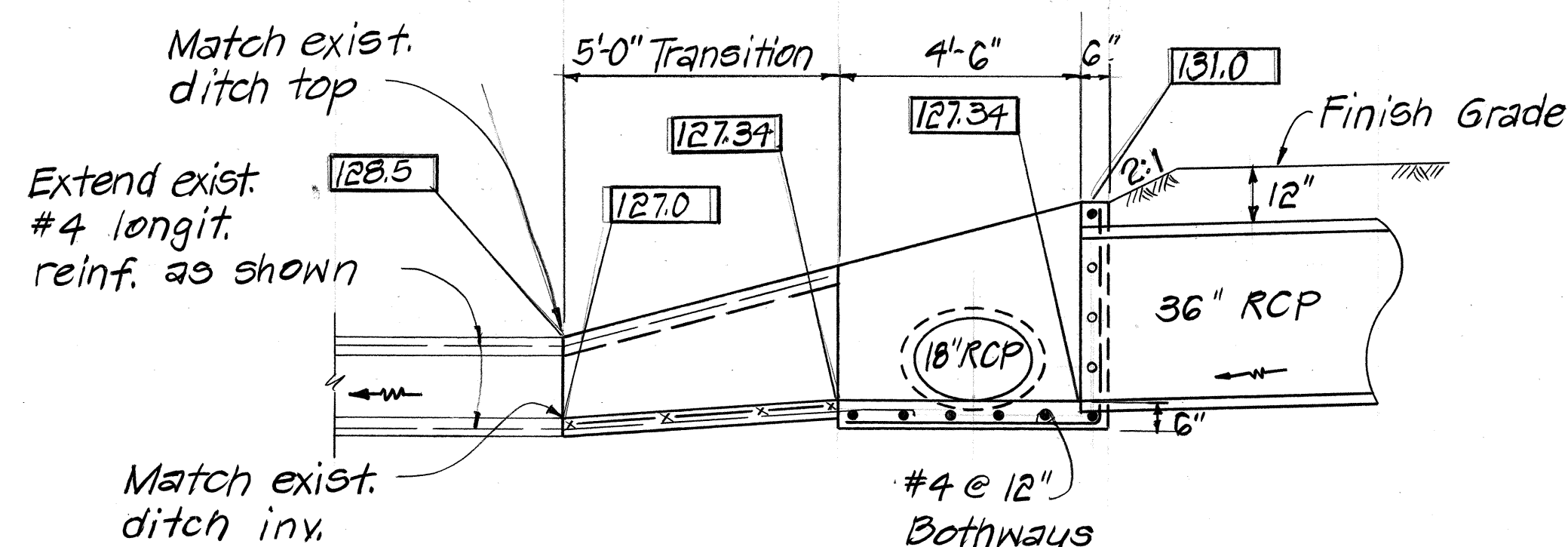
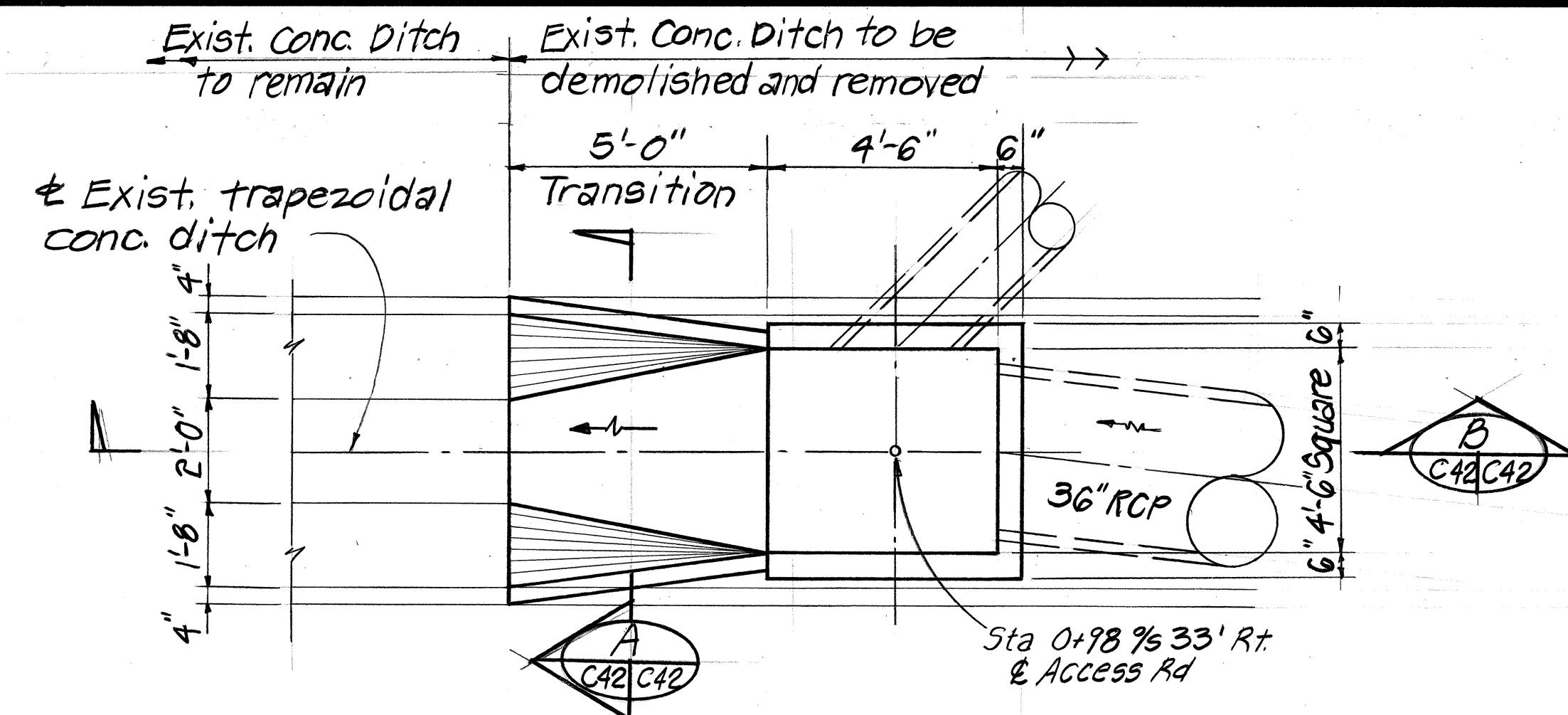
MISCELLANEOUS PROFILES

H-I NON-POTABLE WATER SYSTEM
 KALAUAO SPRINGS TO HALAWA RESERVOIR
 F.A.I. PROJ. NO. IR-HI-1 (203)

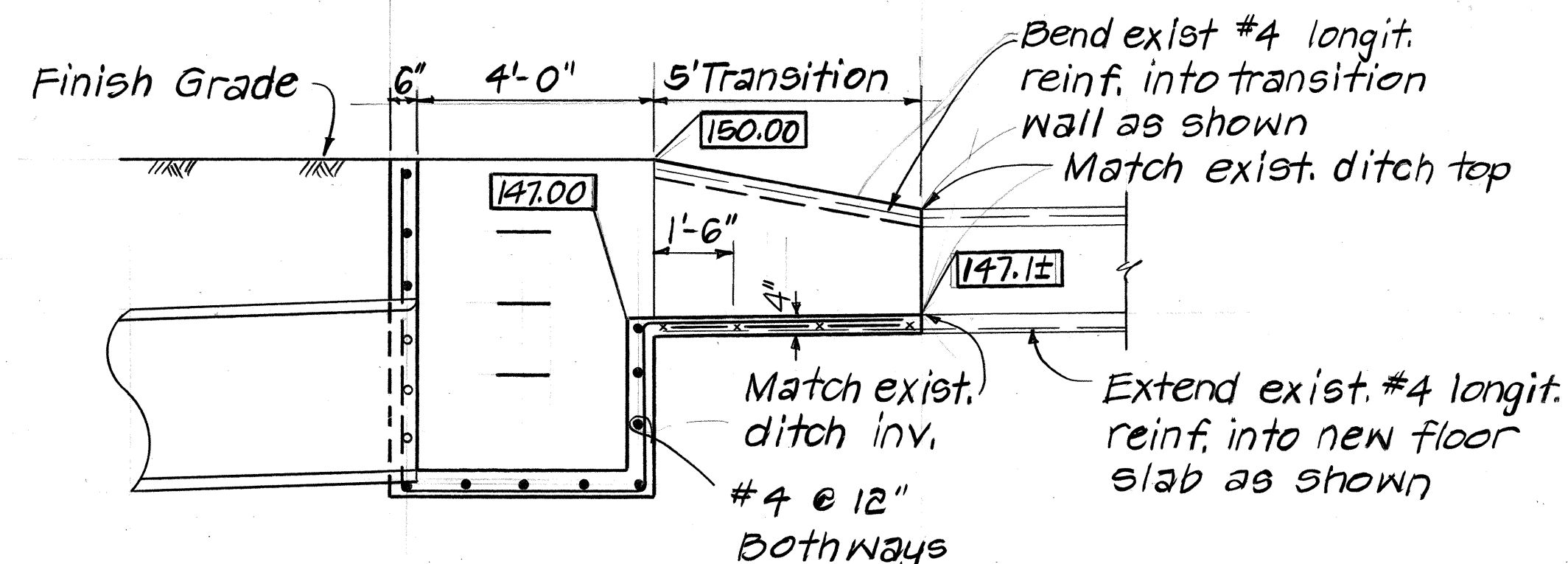
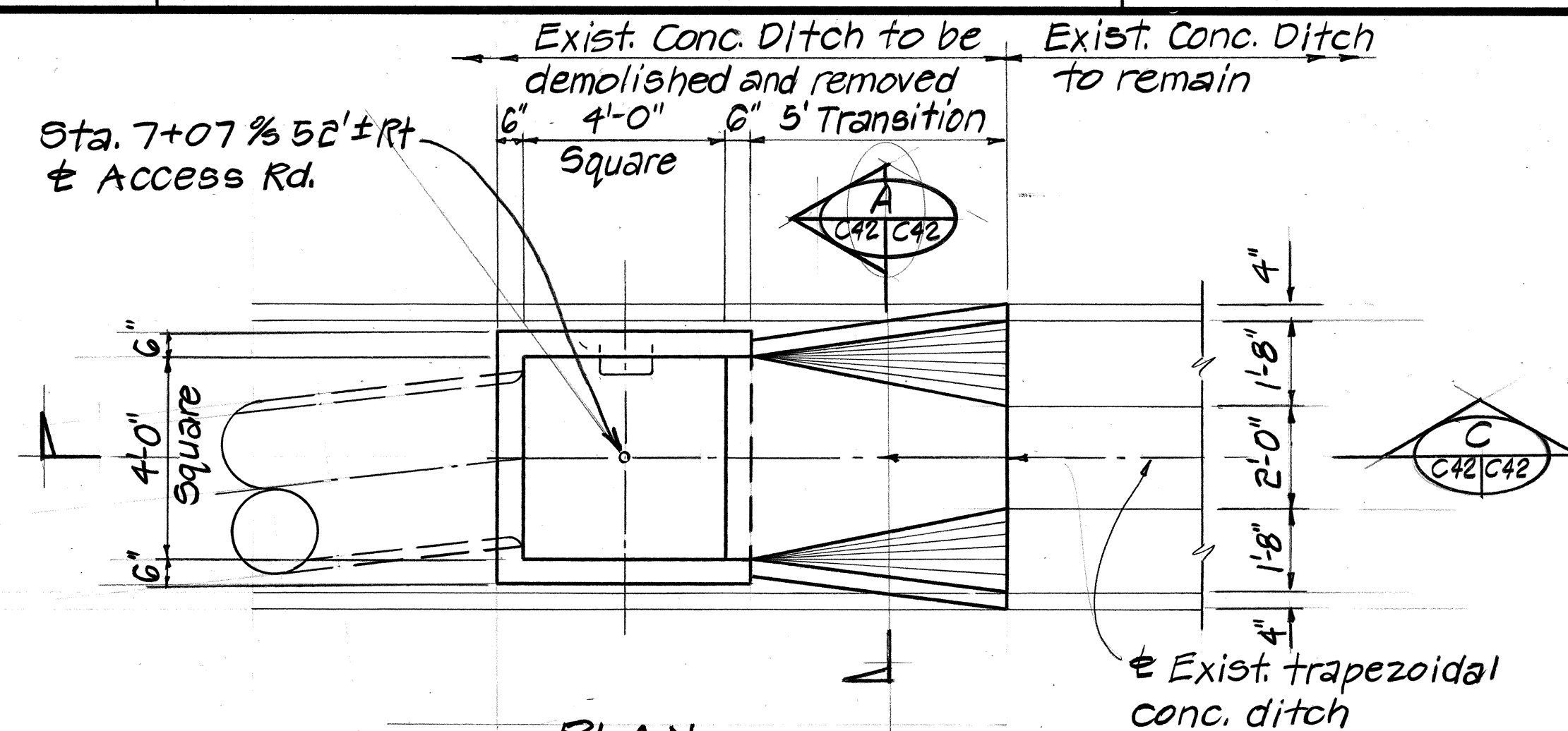
SCALE: AS NOTED DATE: 1/20/87

SHEET NO. C-41 OF 64 SHEETS

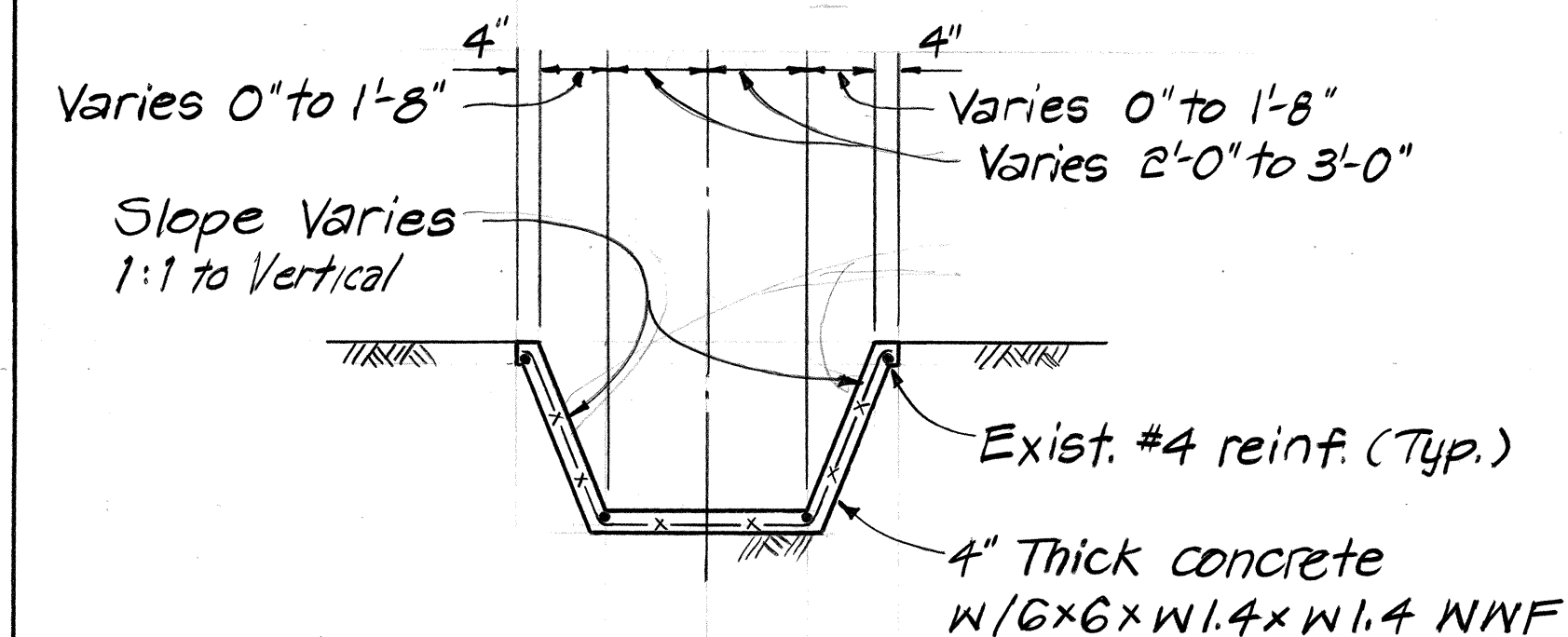
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(203)	1987	44	87



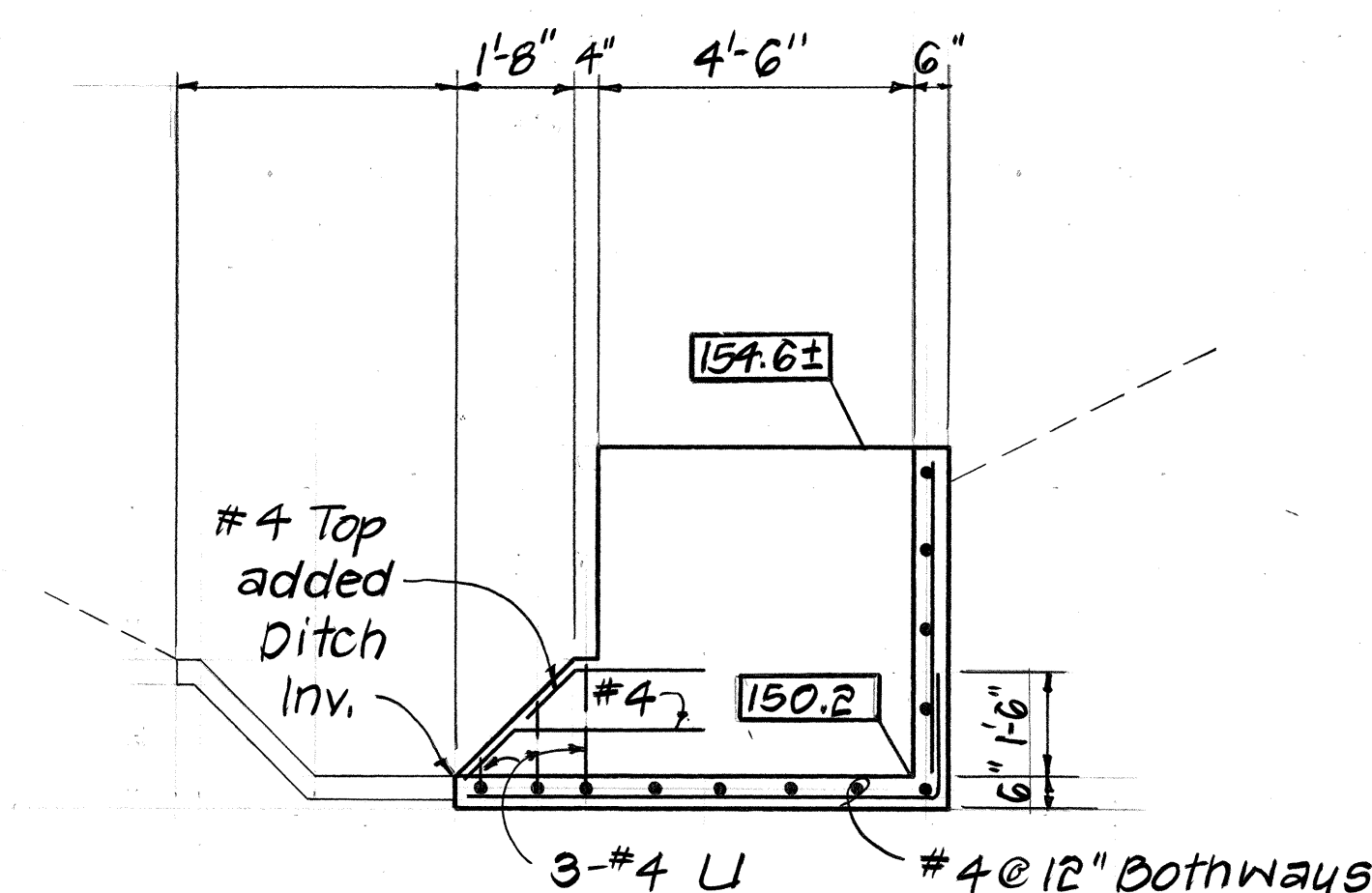
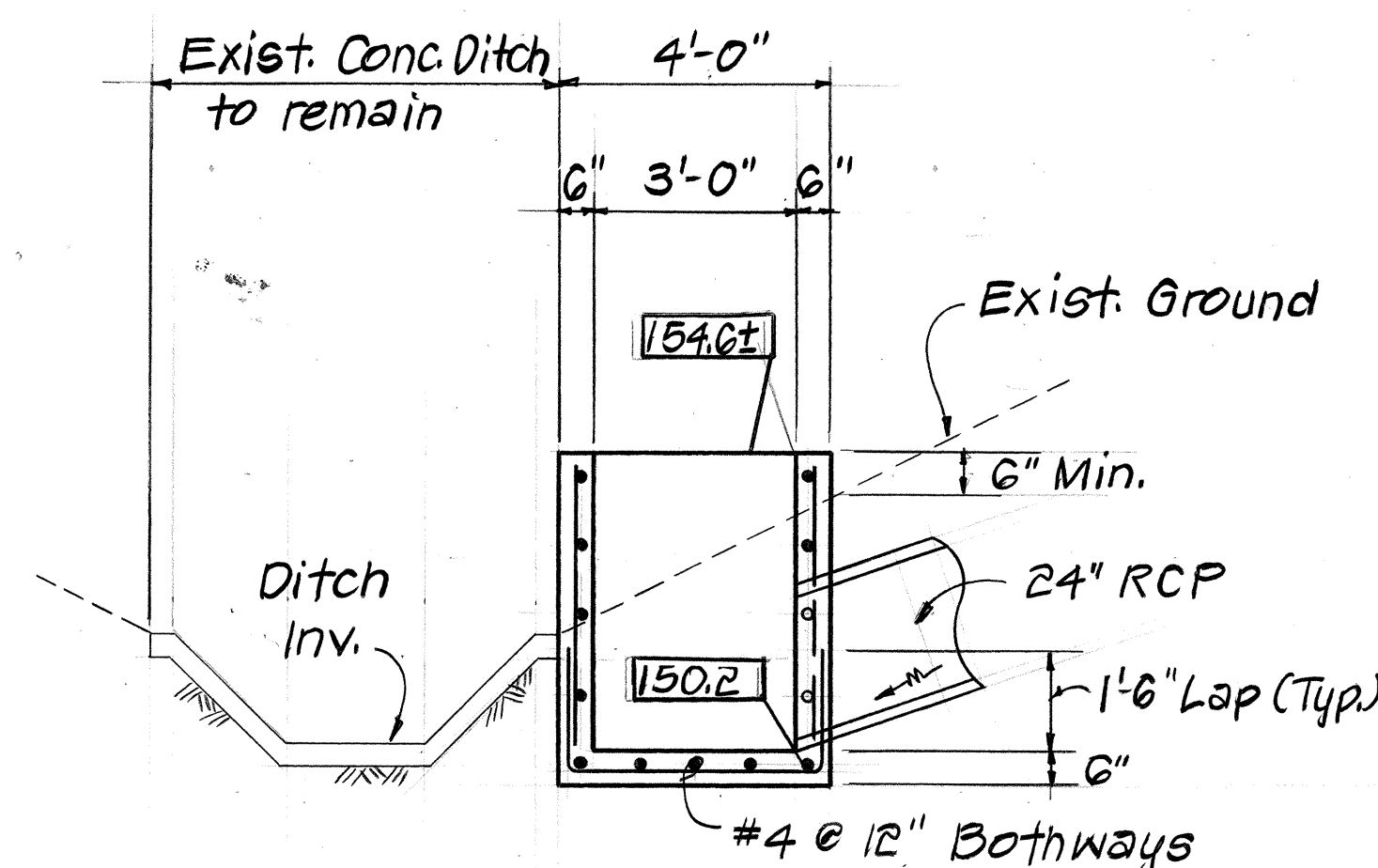
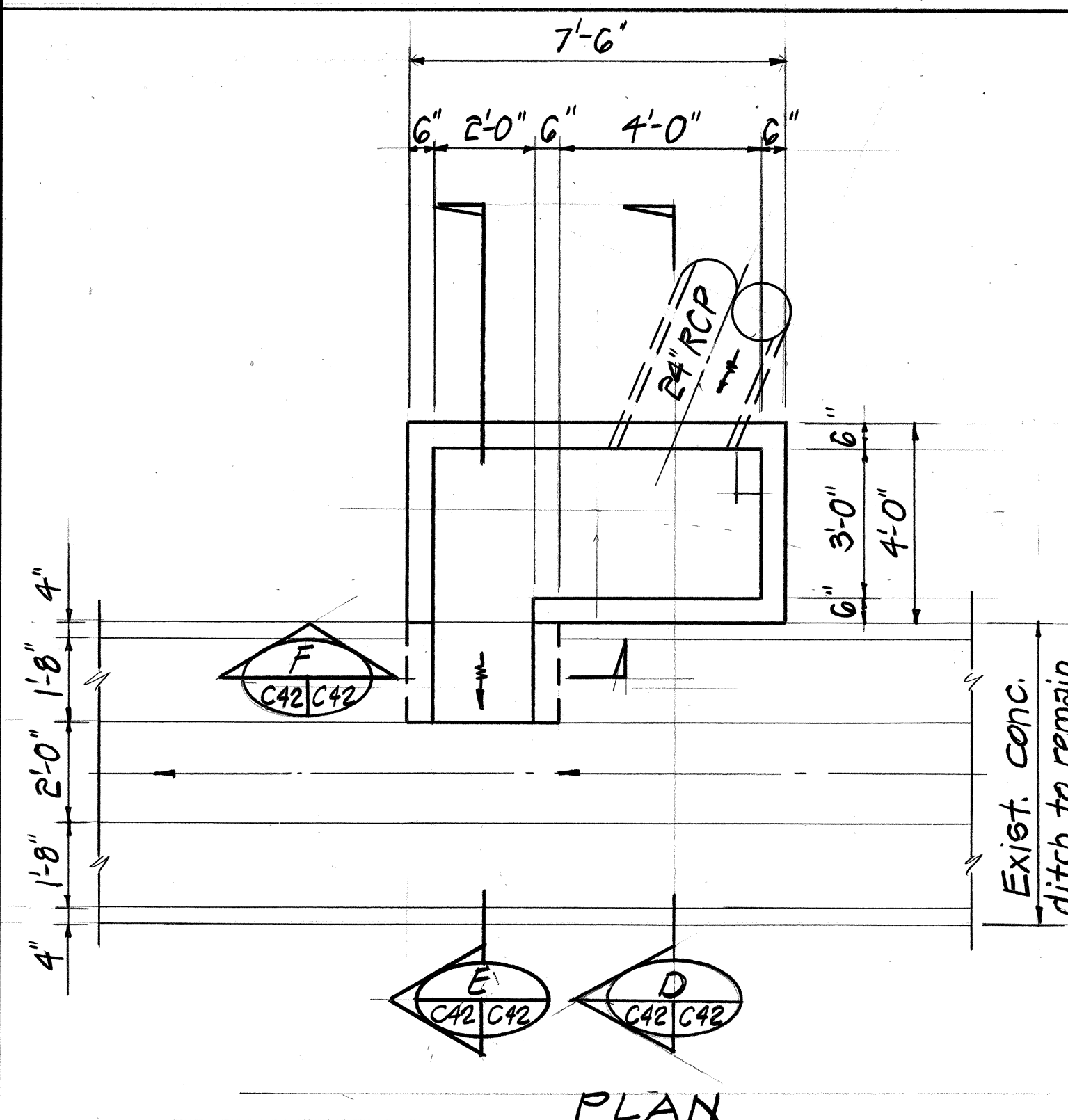
DETAILS - OUTLET "A1" 1
Scale: 3/8" = 1'-0" C34 C42



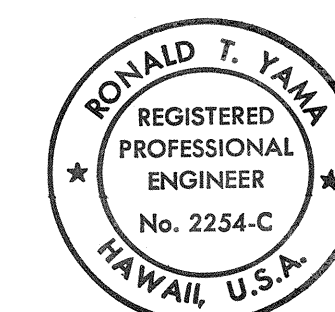
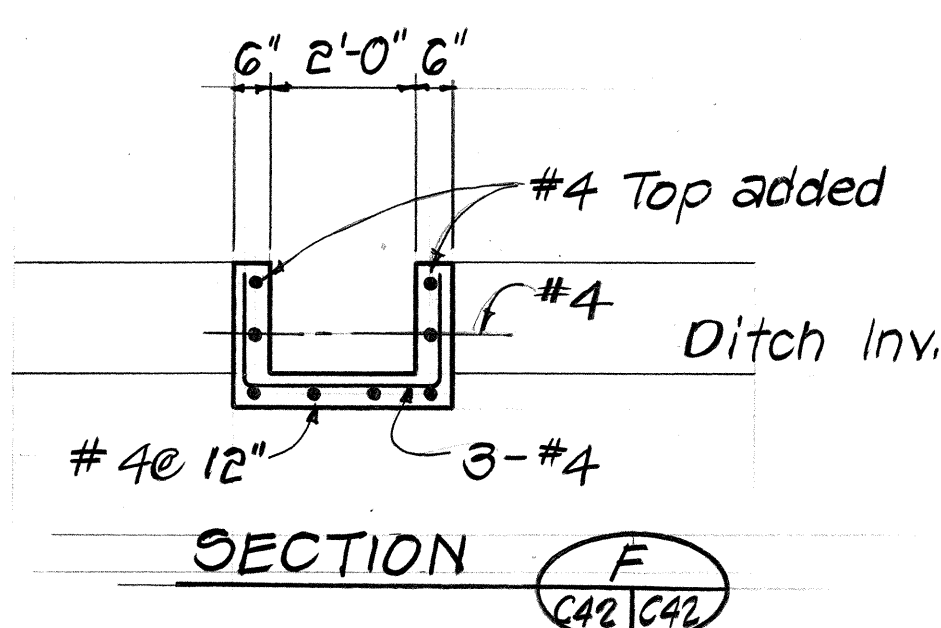
DETAILS - INLET "A4" 2
Scale: 3/8" = 1'-0" C34 C42



TYPICAL SECTION A
Scale: 3/8" = 1'-0" C42 C42



DETAILS - SPECIAL OUTLET "E1" 3
Scale: 3/8" = 1'-0" C35 C42



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Bonus 12/1/87

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

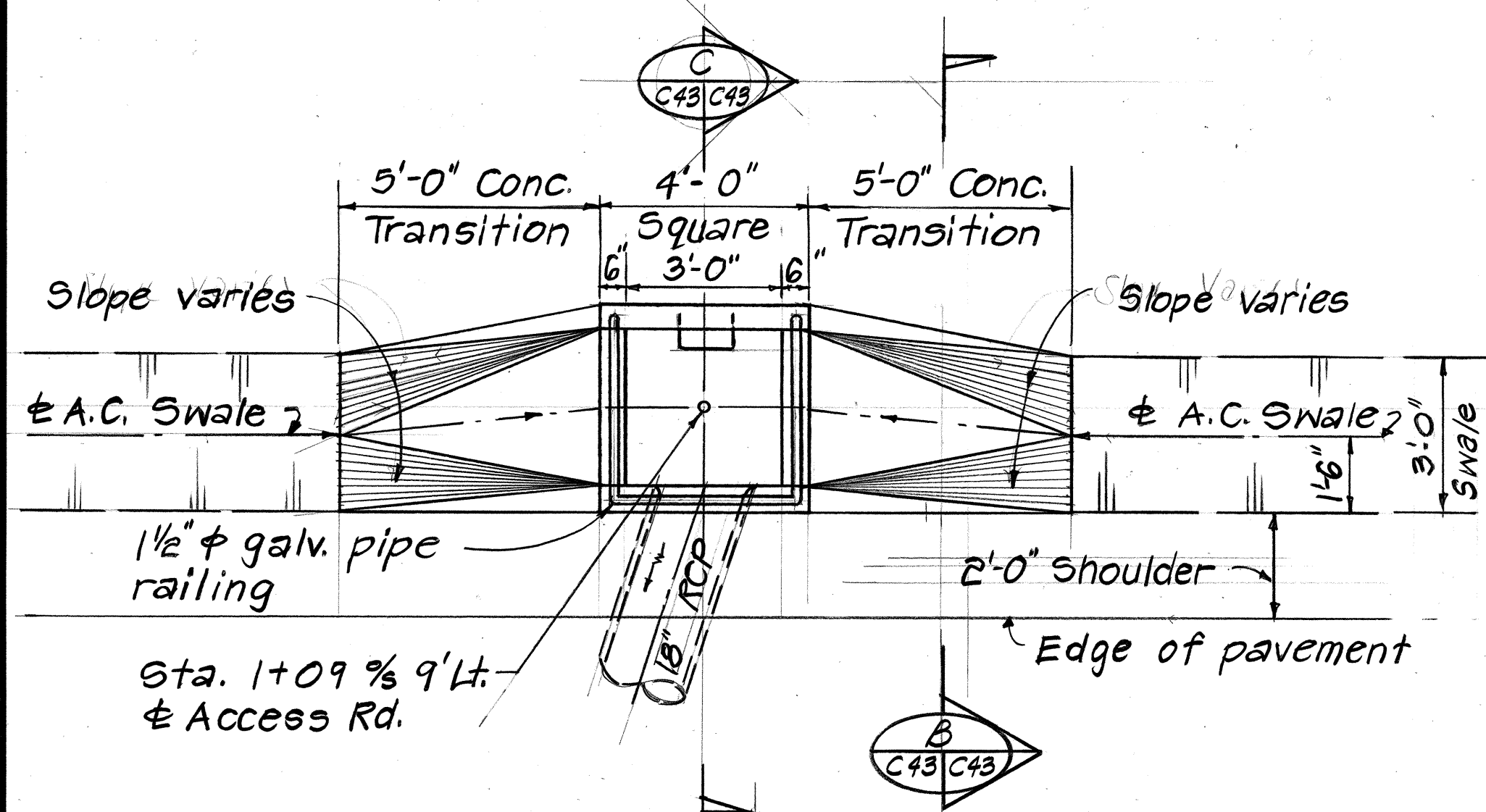
DRAINAGE DETAILS

H-I NON-POTABLE WATER SYSTEM
KALAUAO SPRINGS TO HALAWA RESERVOIR
F.A.I. PROJ. NO. IR-HI-1 (203)

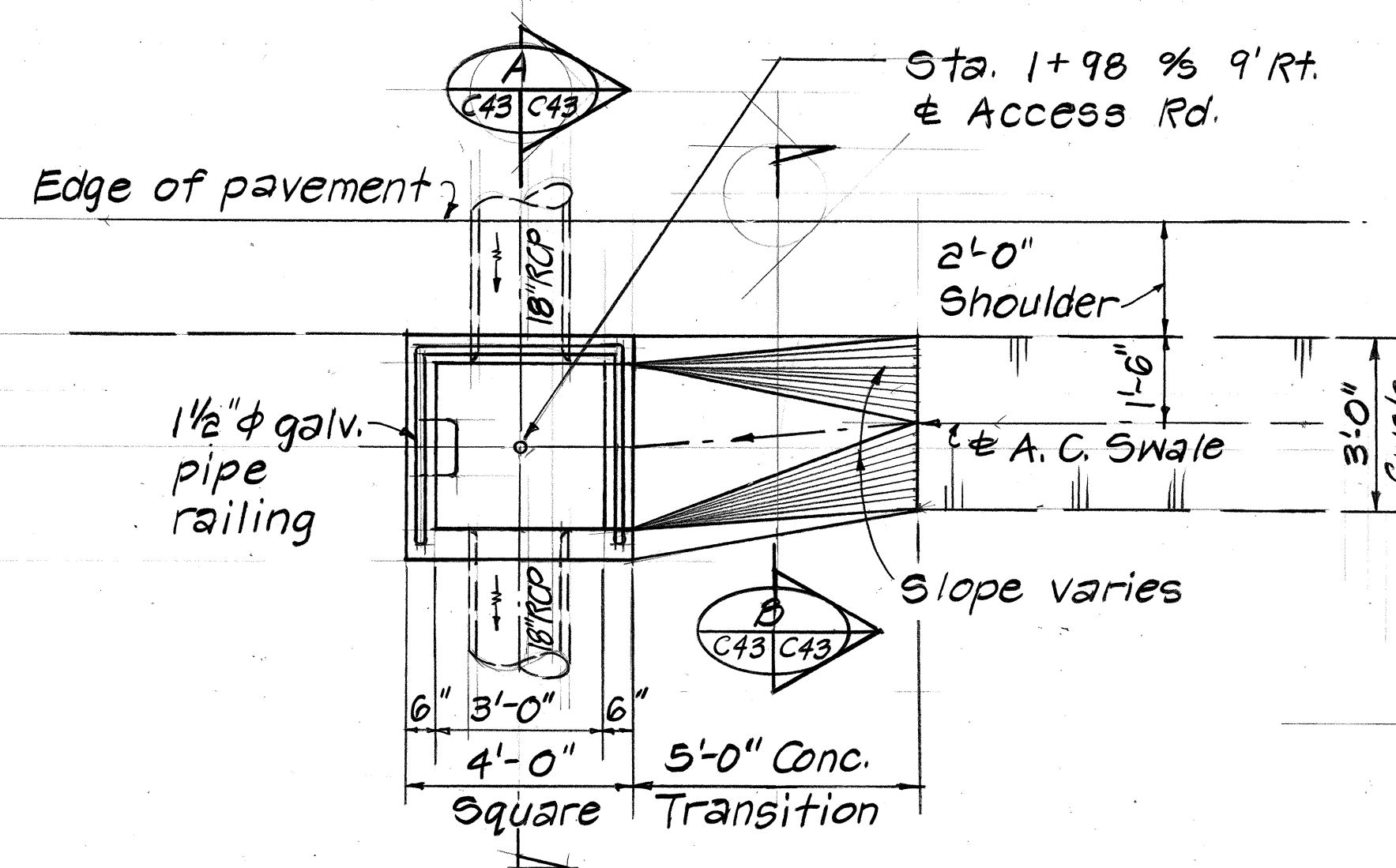
SCALE: AS SHOWN DATE: 1/20/87

SHEET No. C42 OF 64 SHEETS

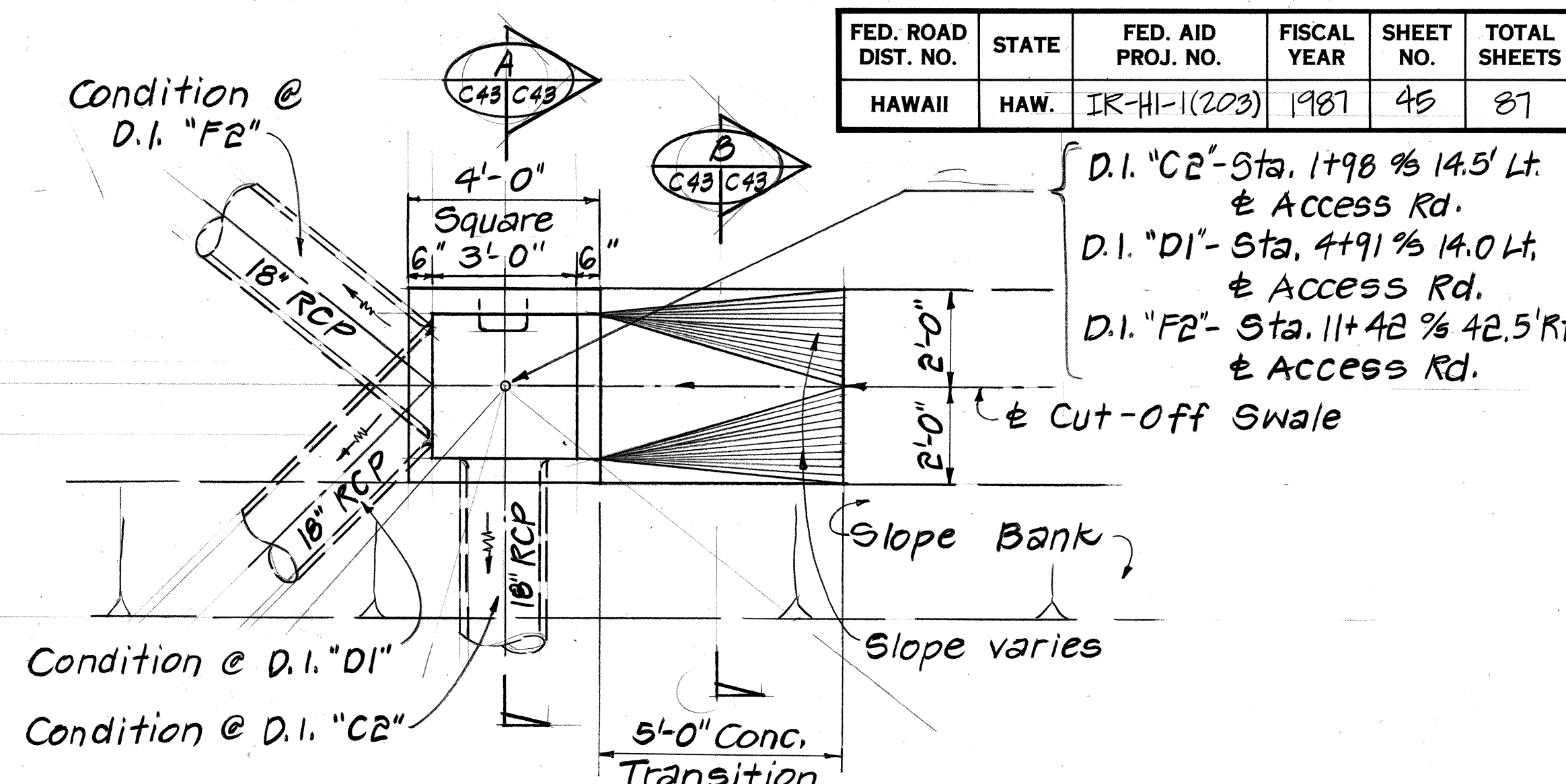
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(203)	1987	45	87



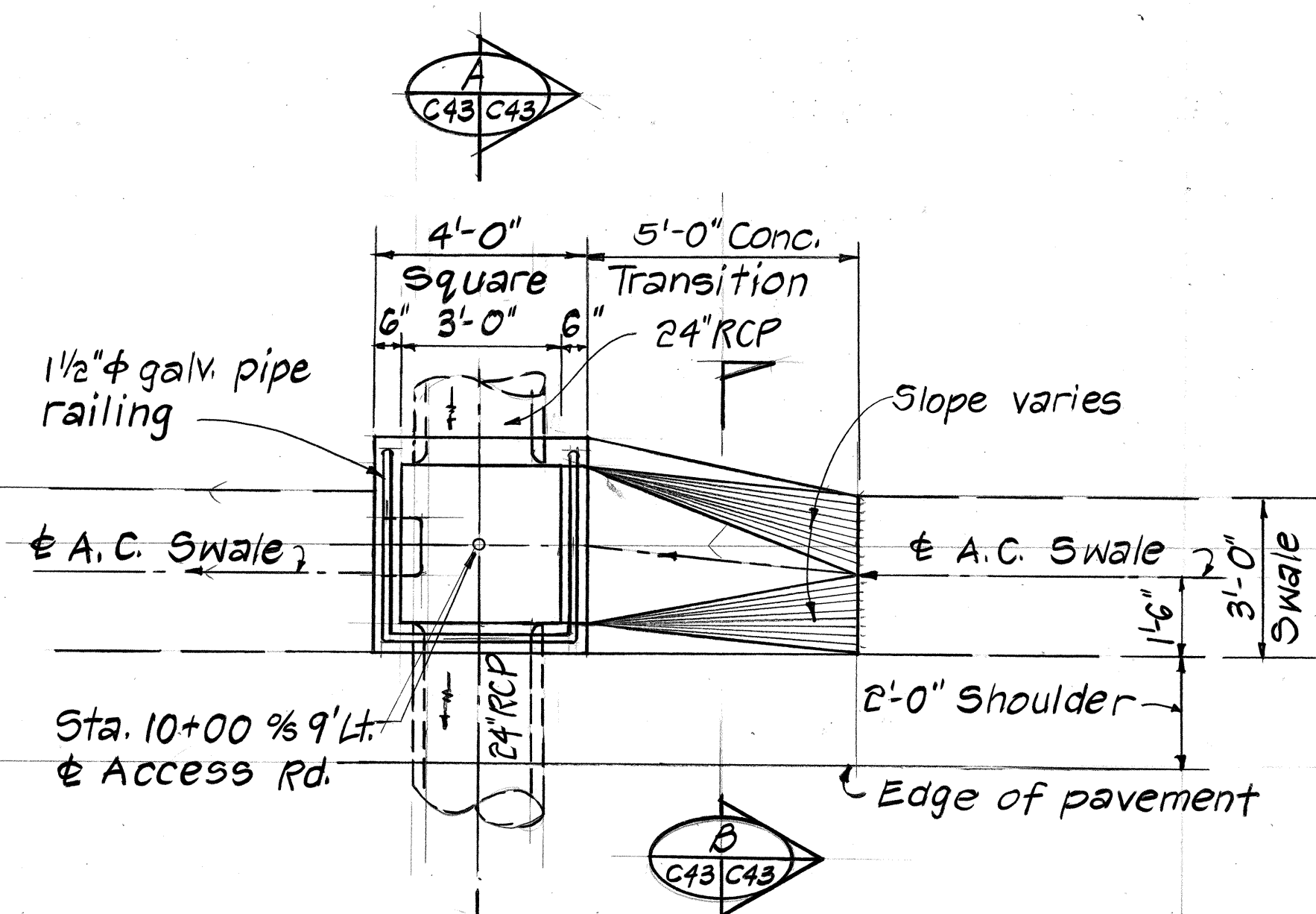
PLAN - DRAIN INLET "B1" 1
Scale: 3/8" = 1'-0" C34/C43



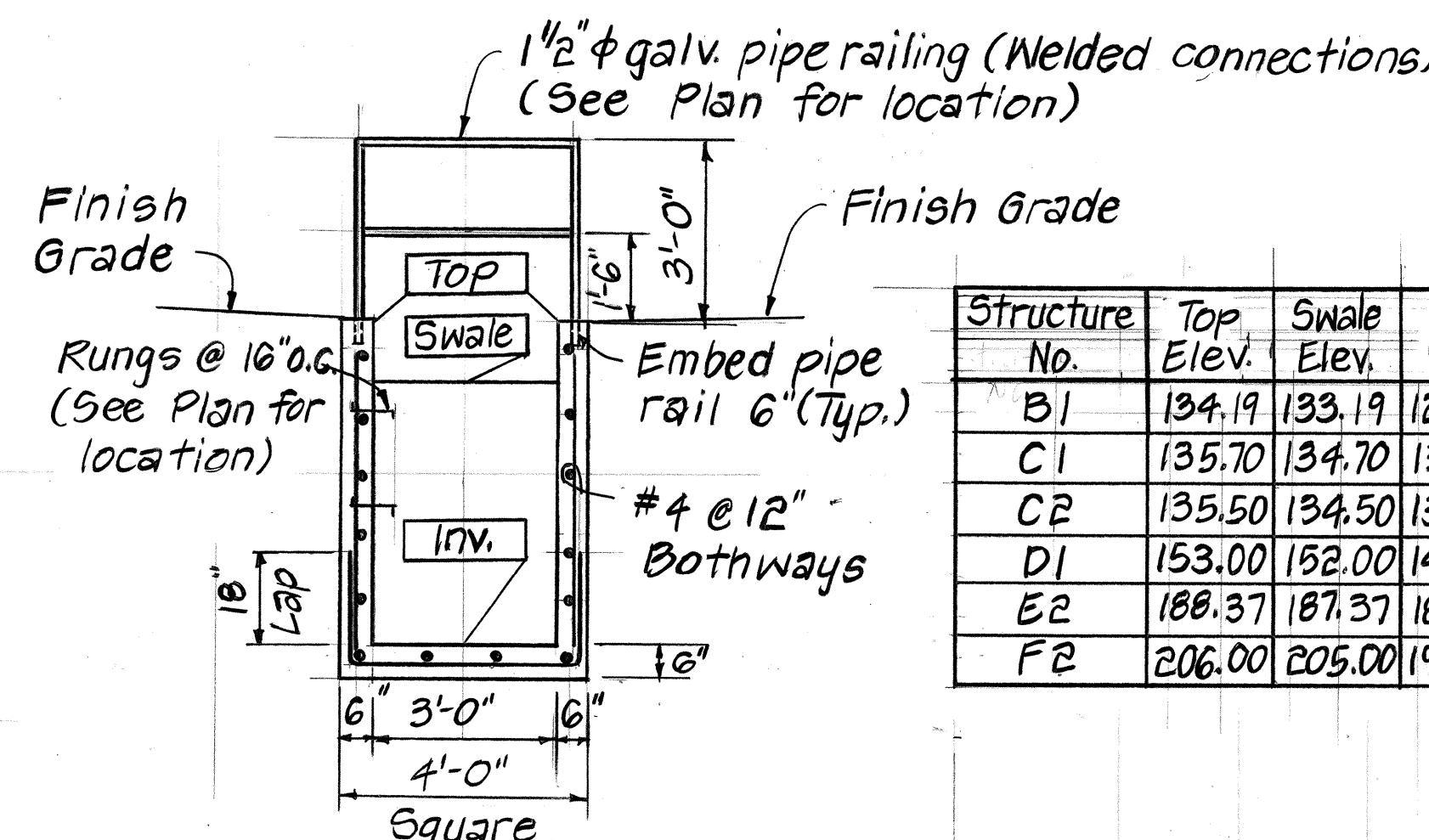
PLAN - DRAIN INLET "C1" 4
Scale: 3/8" = 1'-0" C34/C43



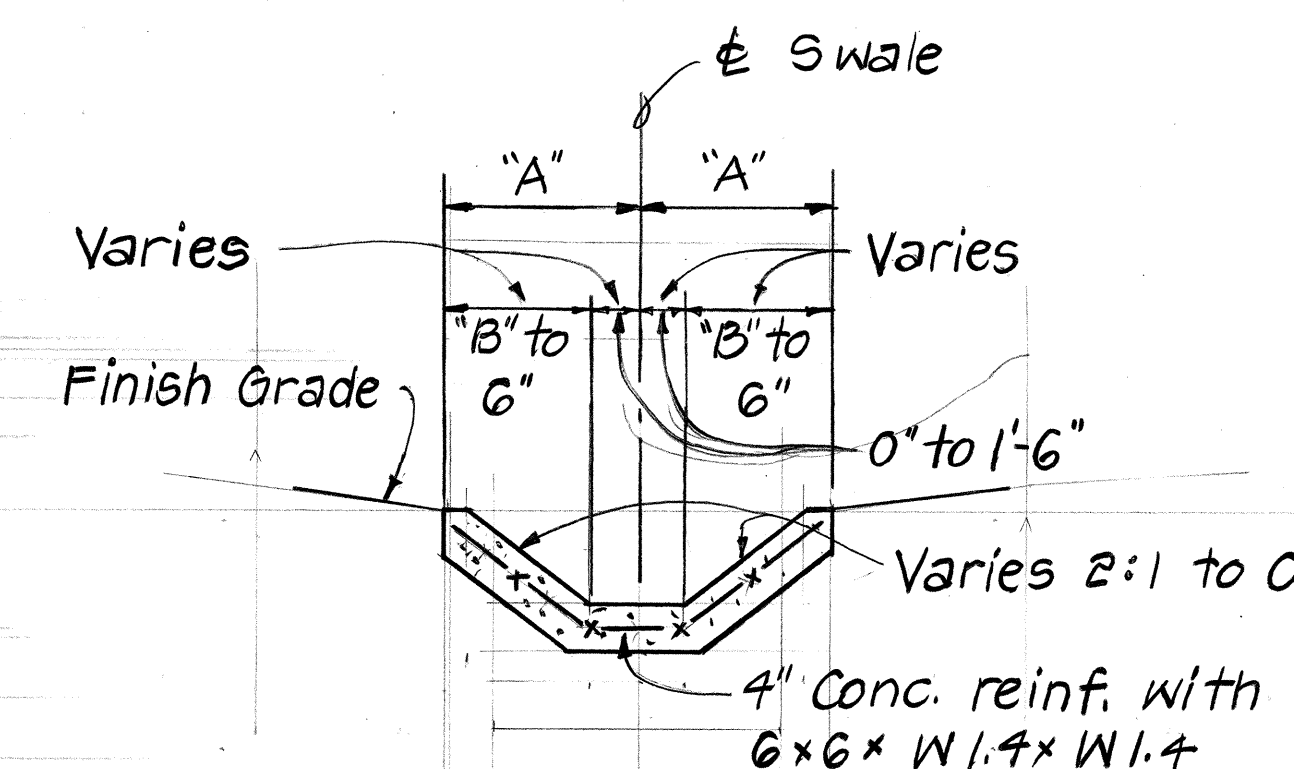
PLAN - DROP INLET "C2", "D1", AND "F2" 6
Scale: 3/8" = 1'-0" C35/C34/C43



PLAN - DRAIN INLET "E2" 2
Scale: 3/8" = 1'-0" C35/C43

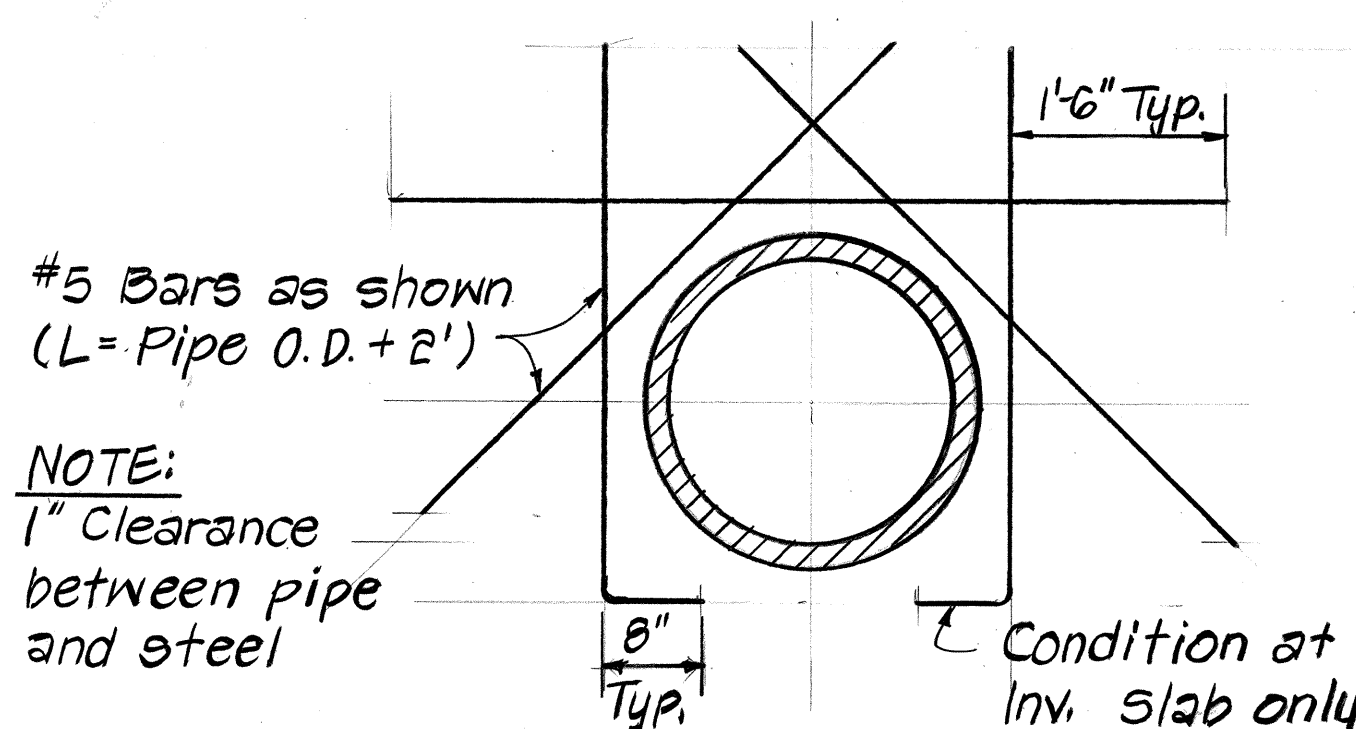


TYPICAL DRAIN INLET SECTION A
Scale: 3/8" = 1'-0" C43/C43

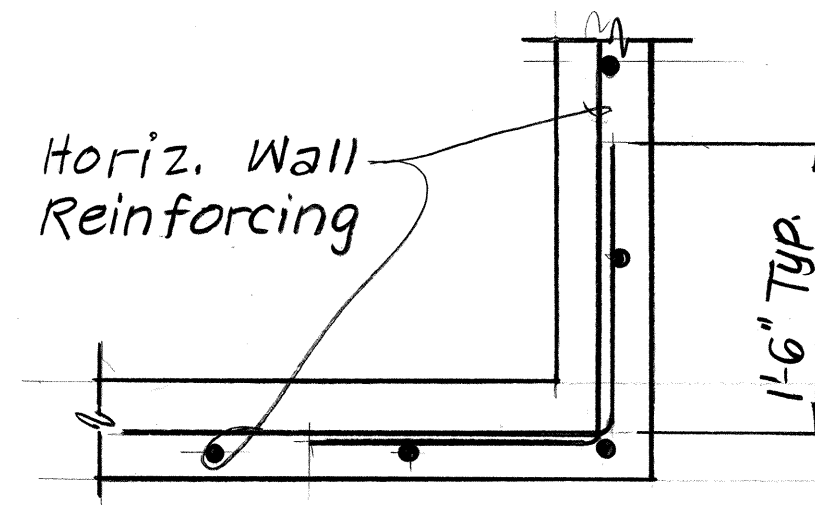


SWALE TRANSITION SECTION B
Scale: 3/8" = 1'-0" C43/C43

Structure No.	Dimension "A"	Dimension "B"
B1	Varies - 1'-6" to 2'-0"	1'-6"
C1	"	"
C2	2'-0"	2'-0"
D1	"	"
E2	Varies - 1'-6" to 2'-0"	1'-6"
F2	2'-0"	2'-0"

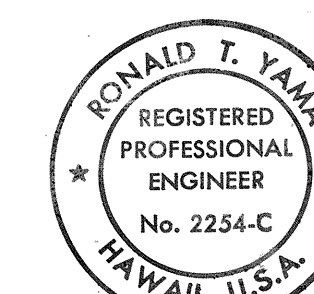


TYPICAL REINFORCING AROUND PIPE 3
Not to Scale C43/C43



TYPICAL REINFORCING AT WALL CORNERS 5
Not to Scale C43/C43

NOTE: Sketch No. 13, Change Order No. 13
For Plan-D.I. "C2", "D1" & "F2"; Plan-D.I.
"C1" & "E2"; Plan-D.I. "B1" & "F2", See
Sheet No. 49-5-1



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HIGHWAYS DIVISION

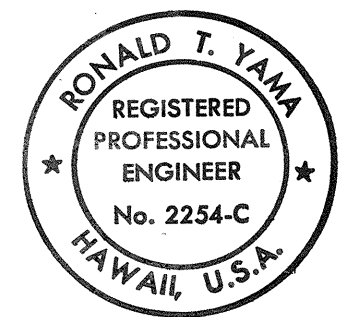
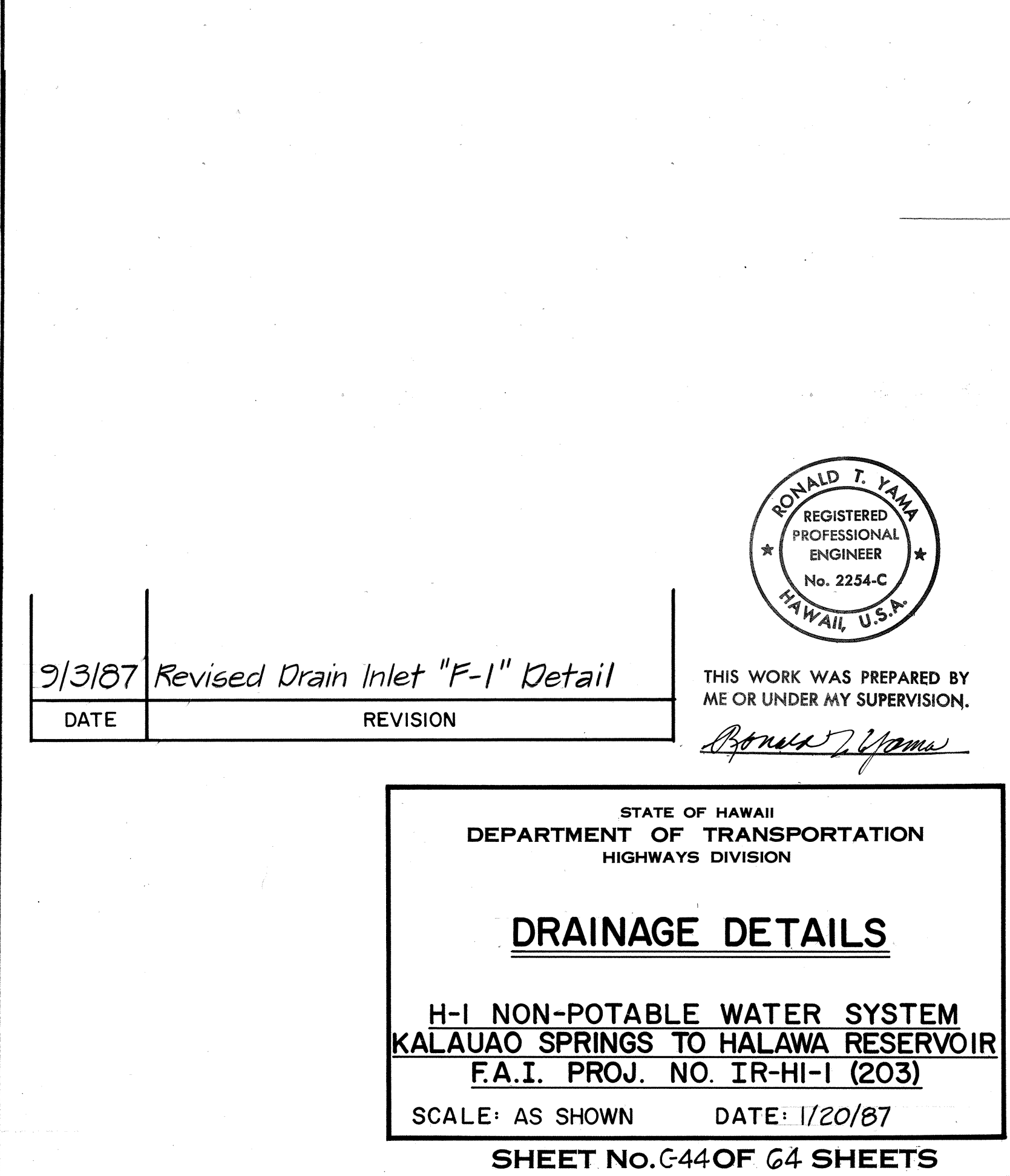
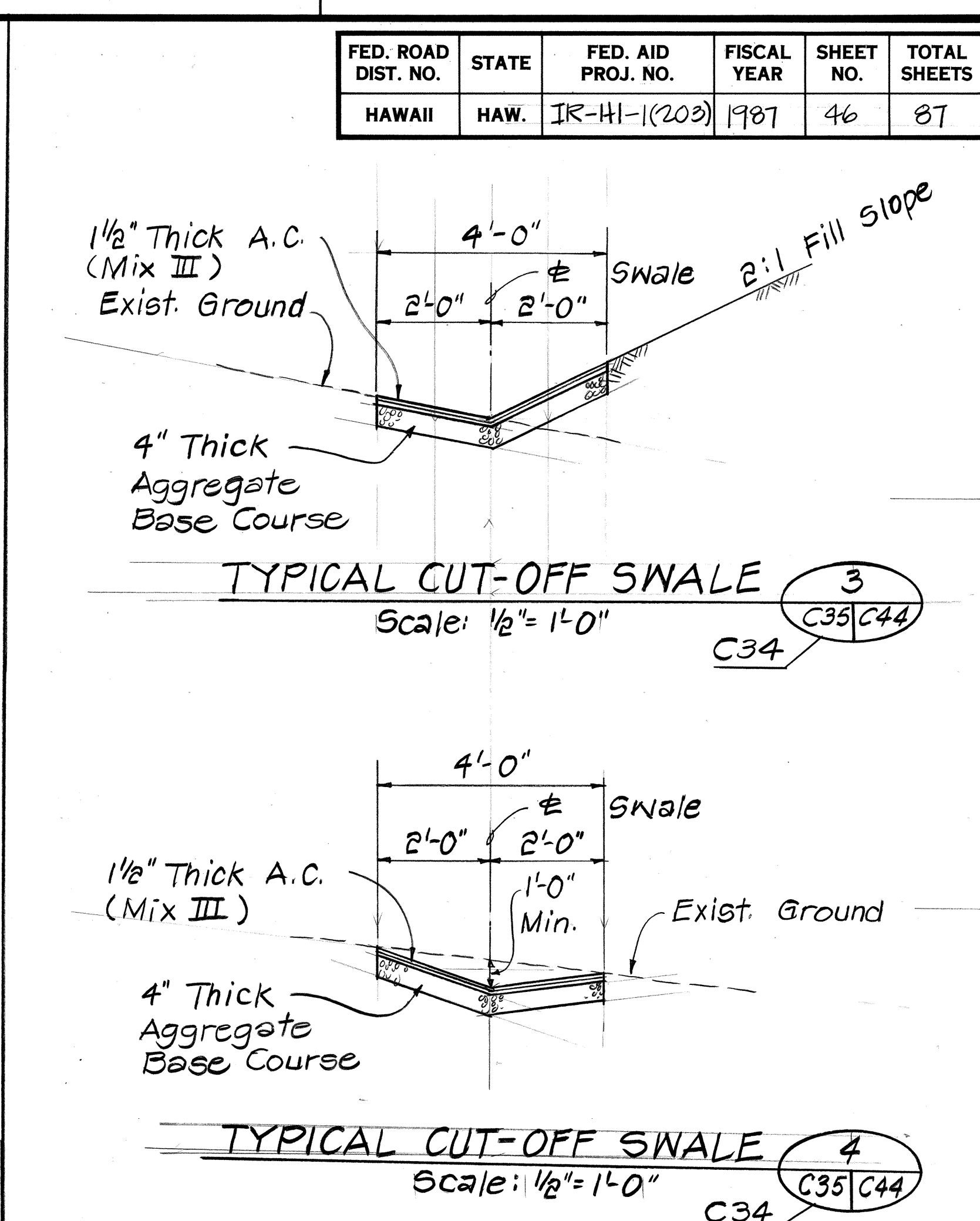
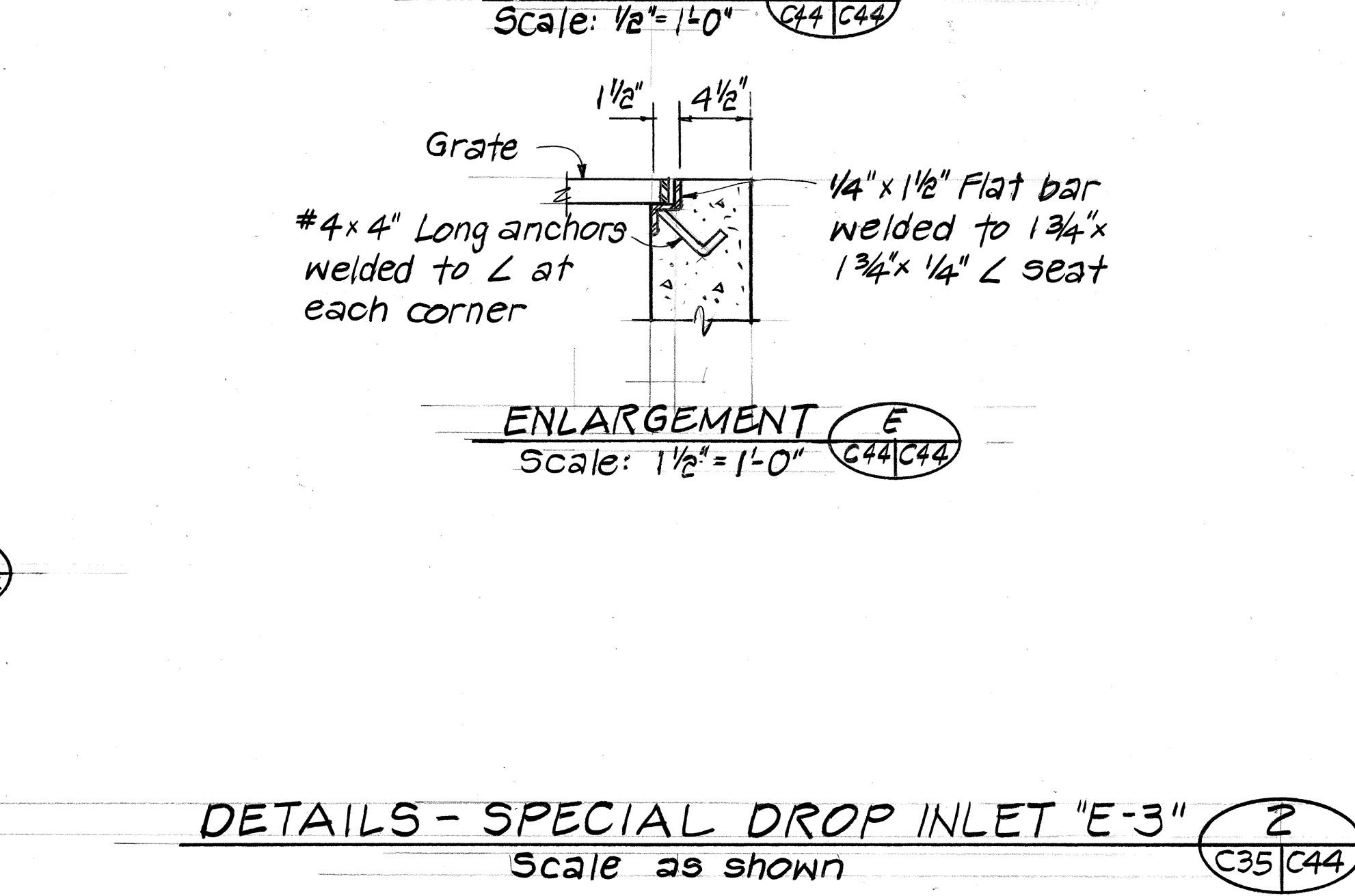
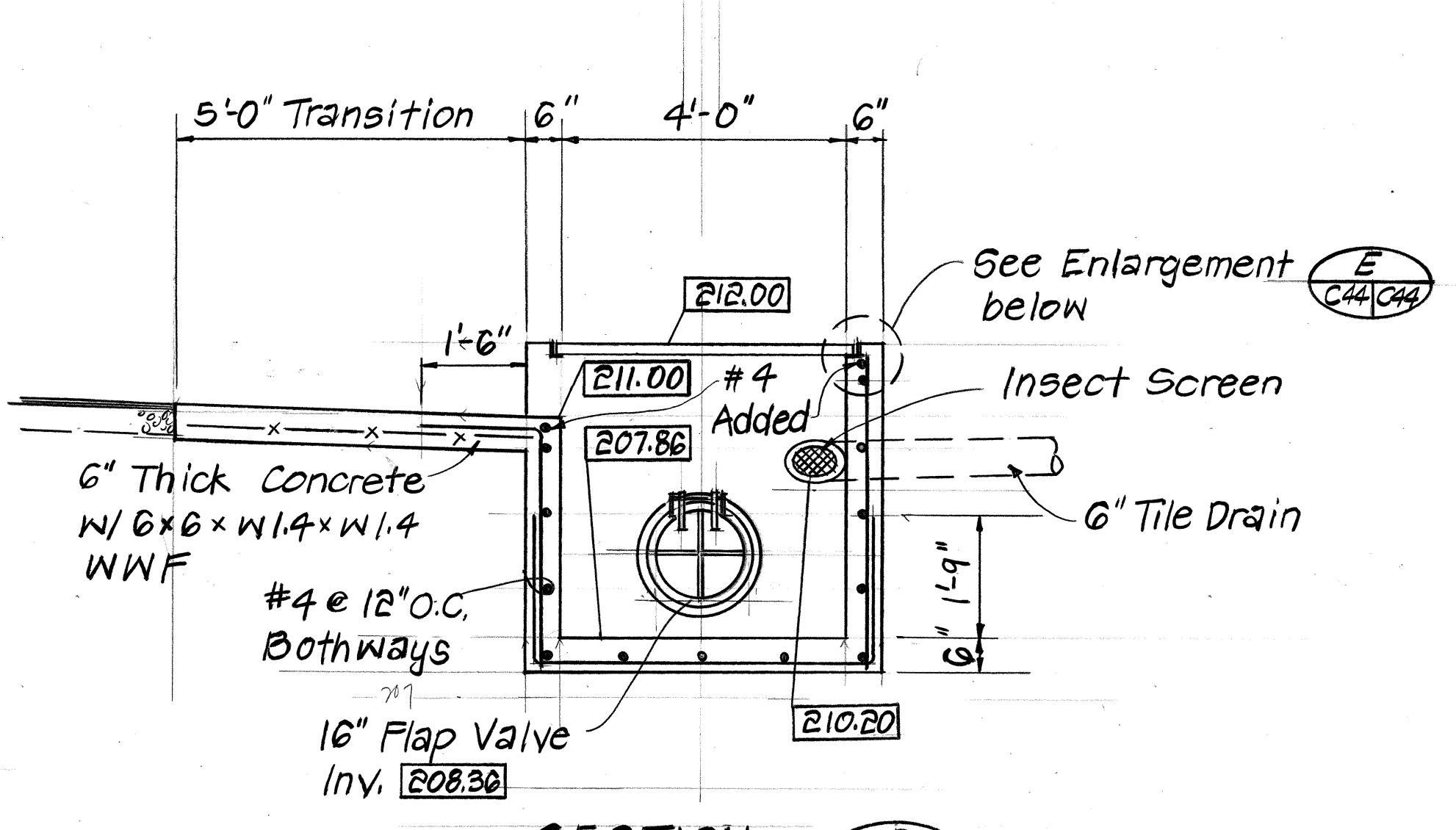
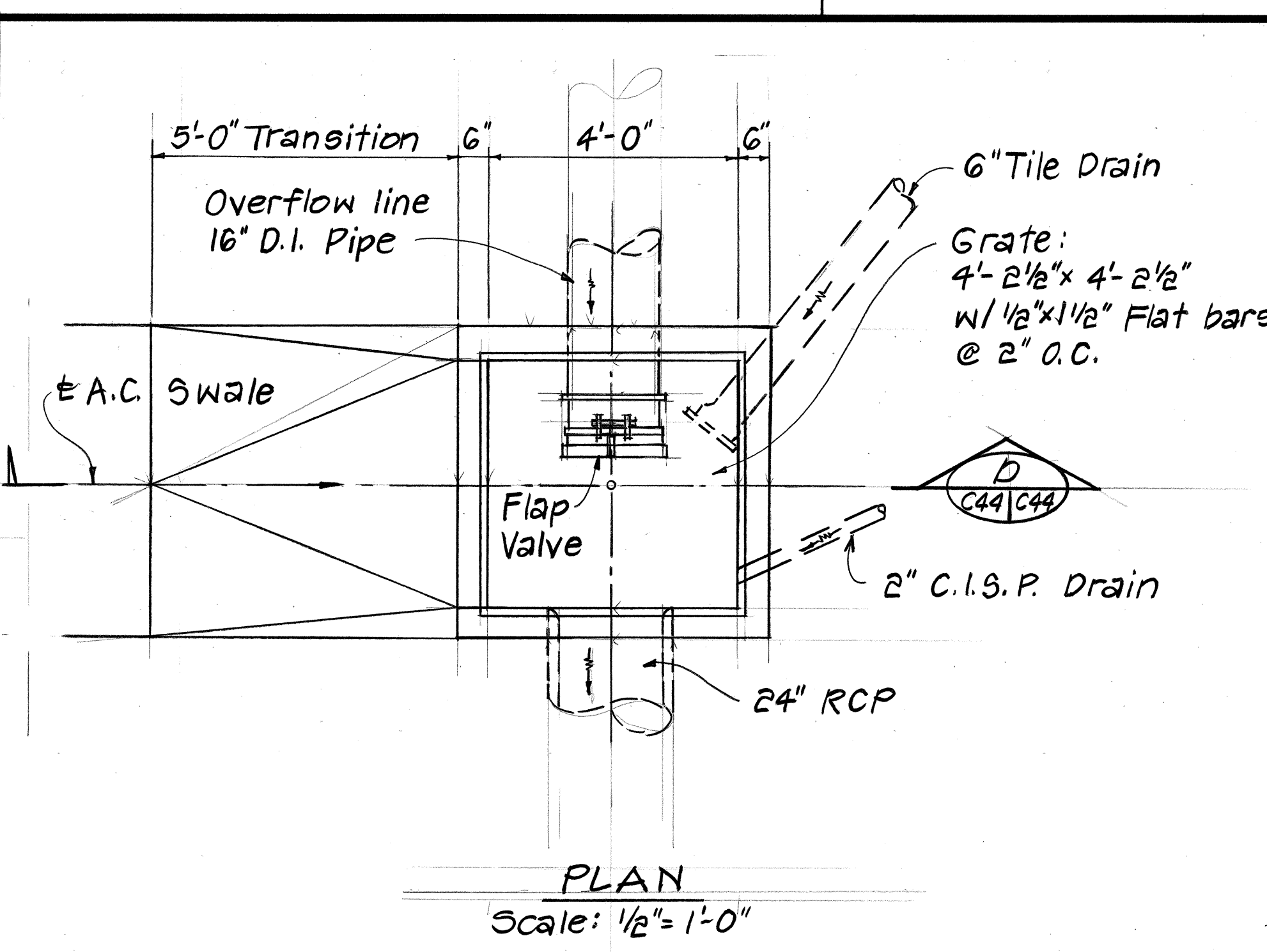
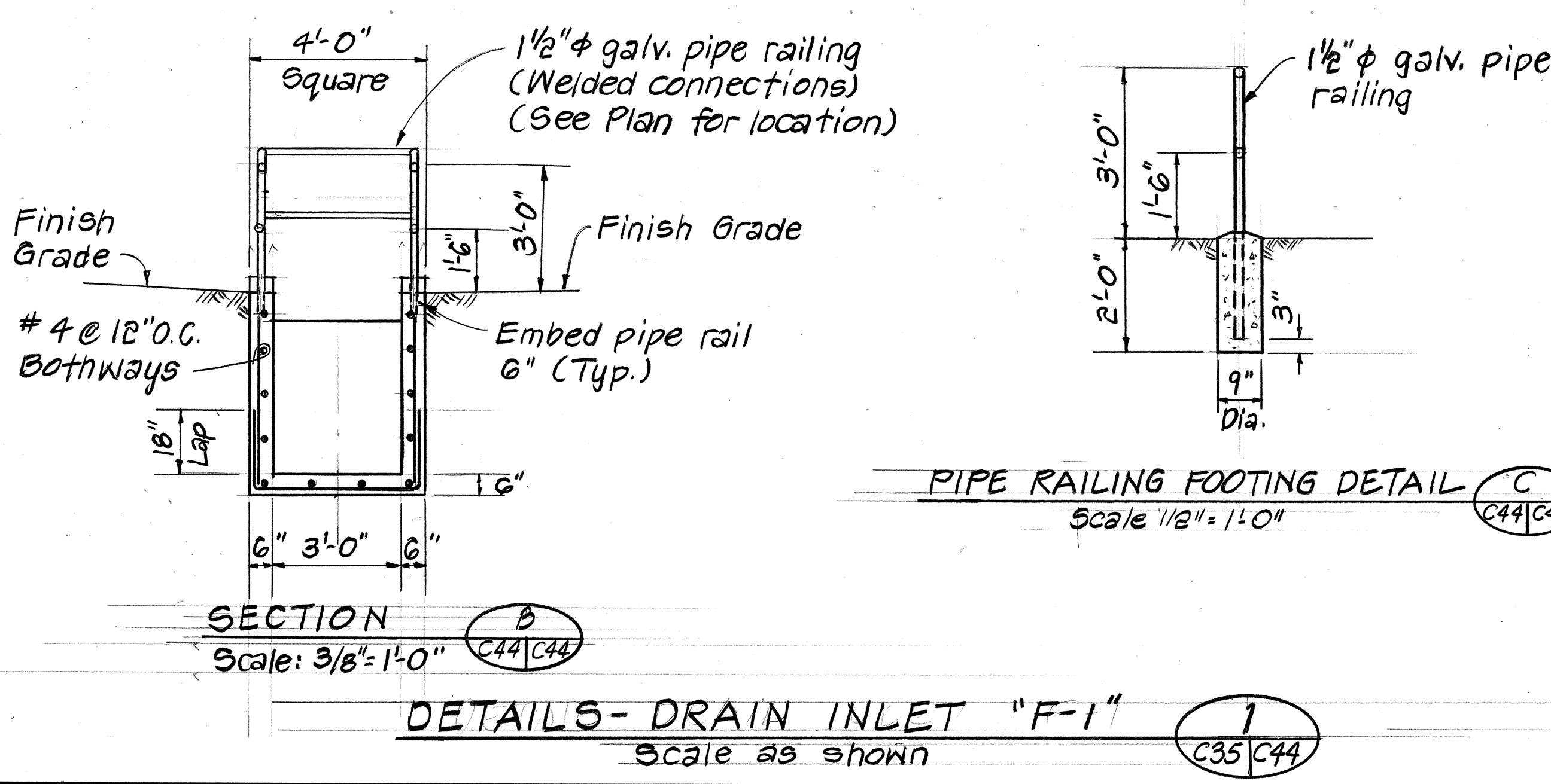
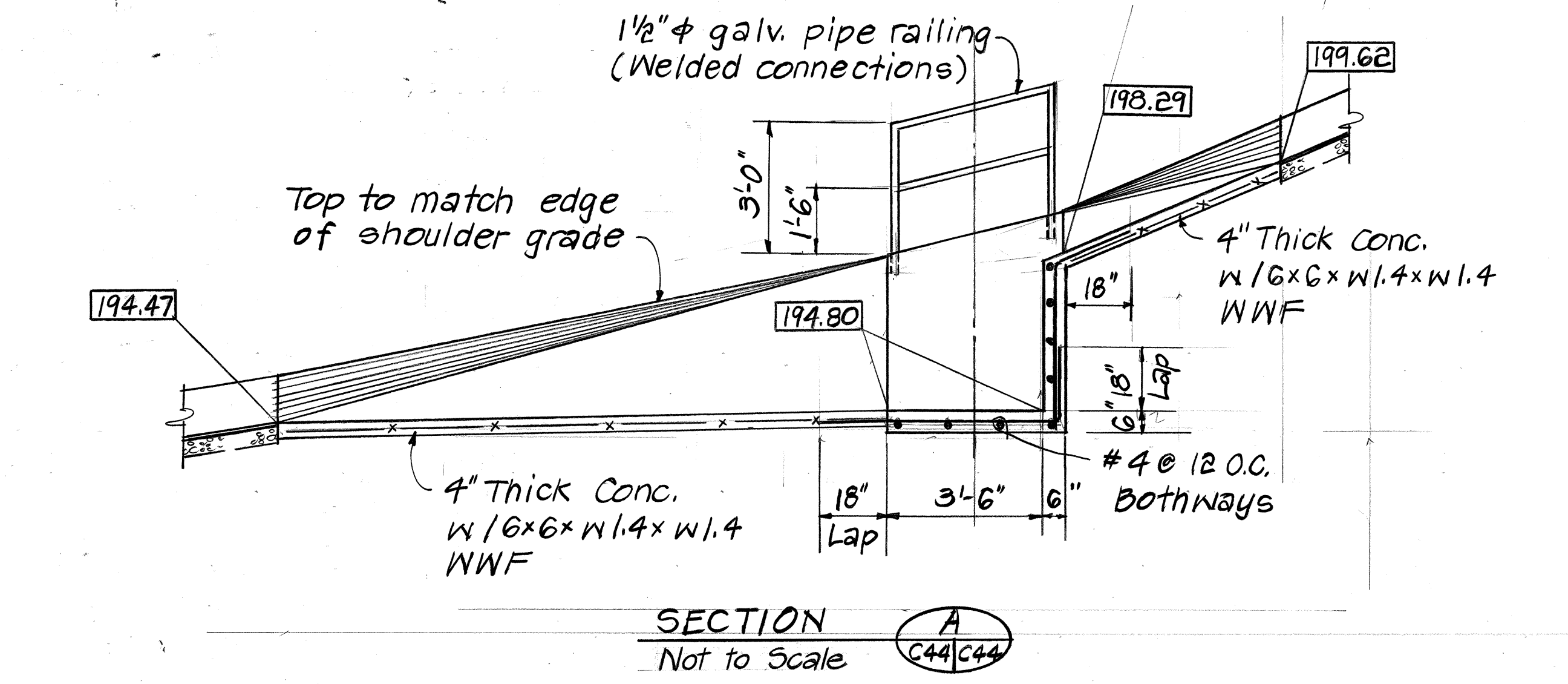
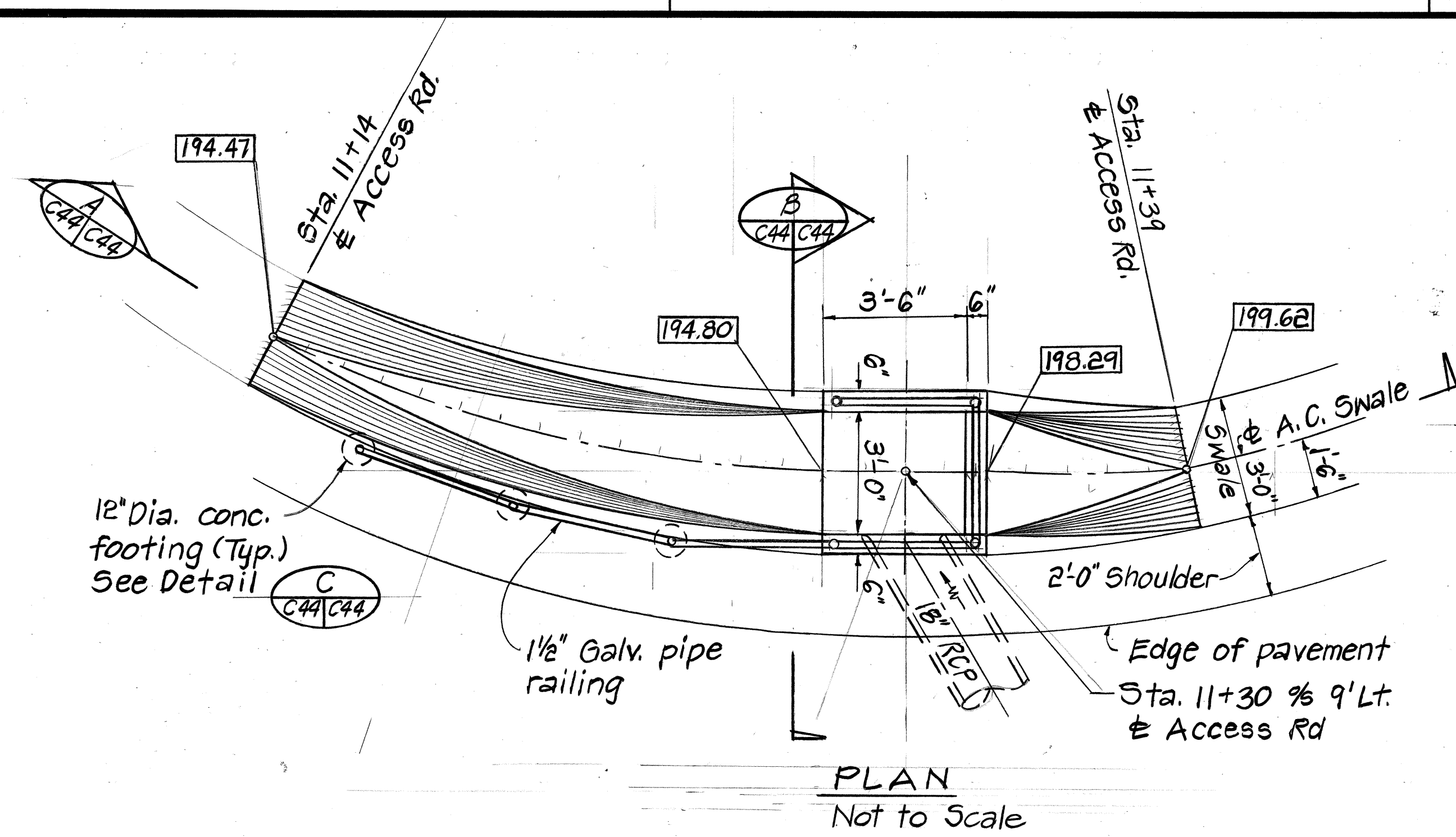
DRAINAGE DETAILS

H-1 NON-POTABLE WATER SYSTEM
KALAUAO SPRINGS TO HALAWA RESERVOIR
F.A.I. PROJ. NO. IR-HI-1 (203)

SCALE: AS SHOWN DATE: 1/20/87
SHEET No. C43 OF 64 SHEETS

DATE	REVISION
3/3/87	Revised Plan - Drop Inlet "F2"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(203)	1987	46	87



9/3/87	Revised Drain Inlet "F-1" Detail
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

H-1 NON-POTABLE WATER SYSTEM
KALAUAO SPRINGS TO HALAWA RESERVOIR
F.A.I. PROJ. NO. IR-HI-1 (203)

SCALE: AS SHOWN DATE: 1/20/87

SHEET No. G44 OF 64 SHEETS

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