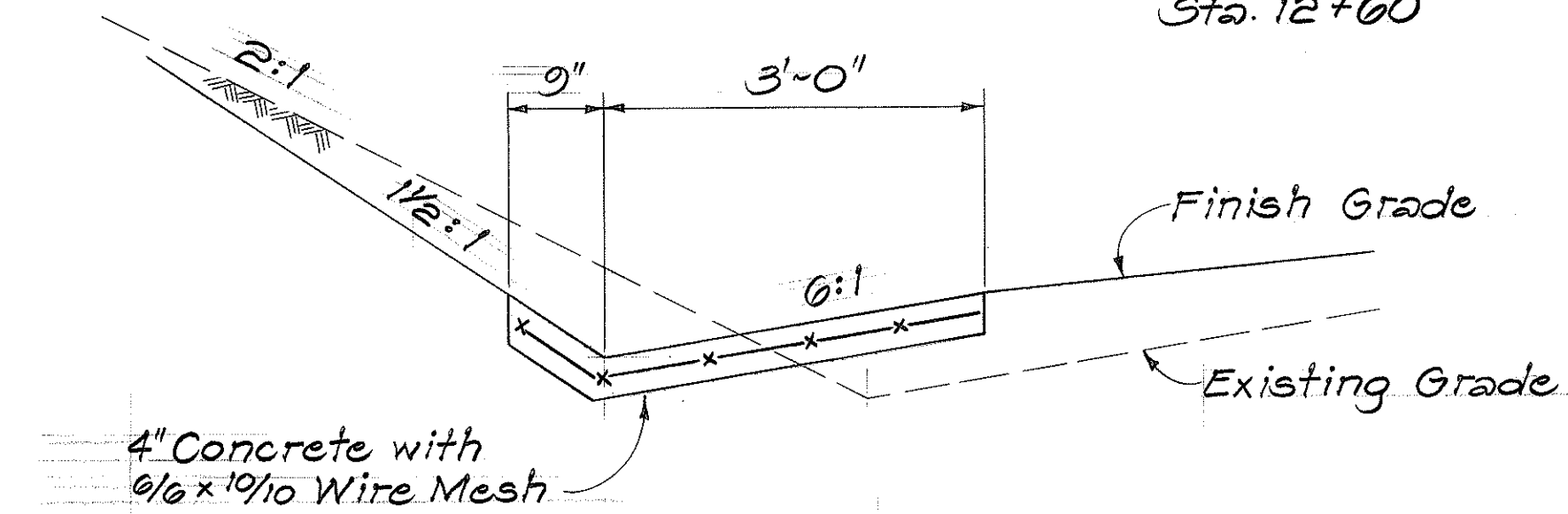
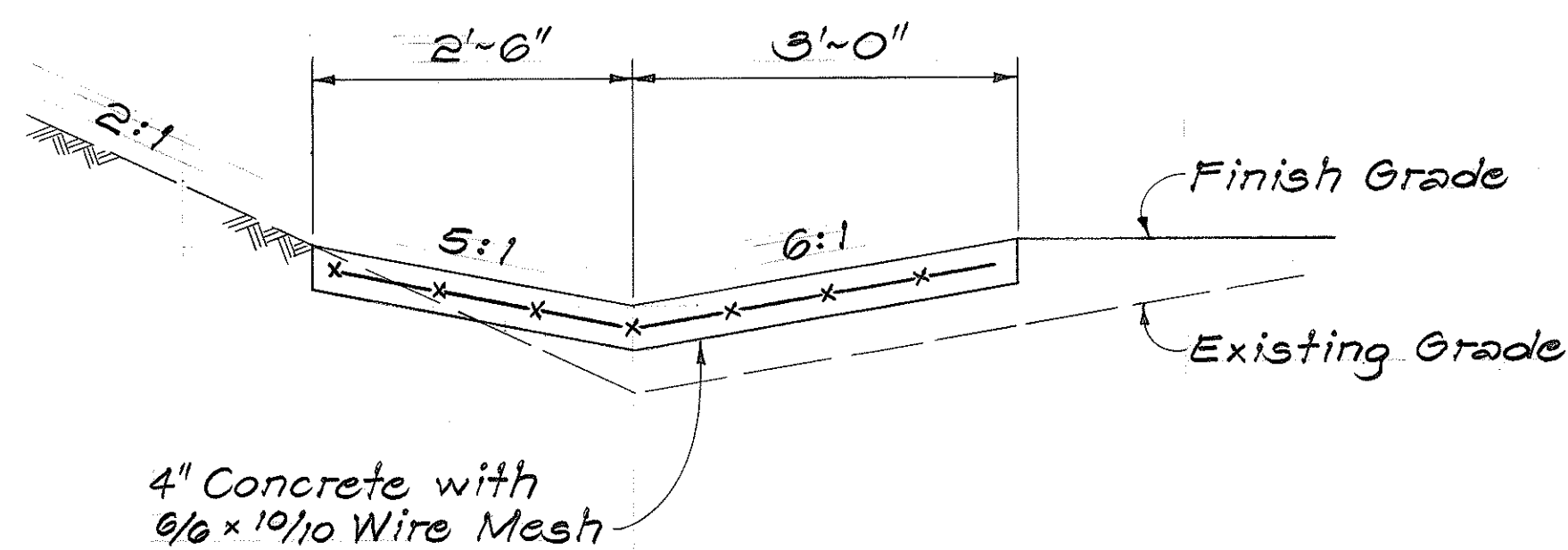


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IIR-H1-1(165):10	1983	20	64

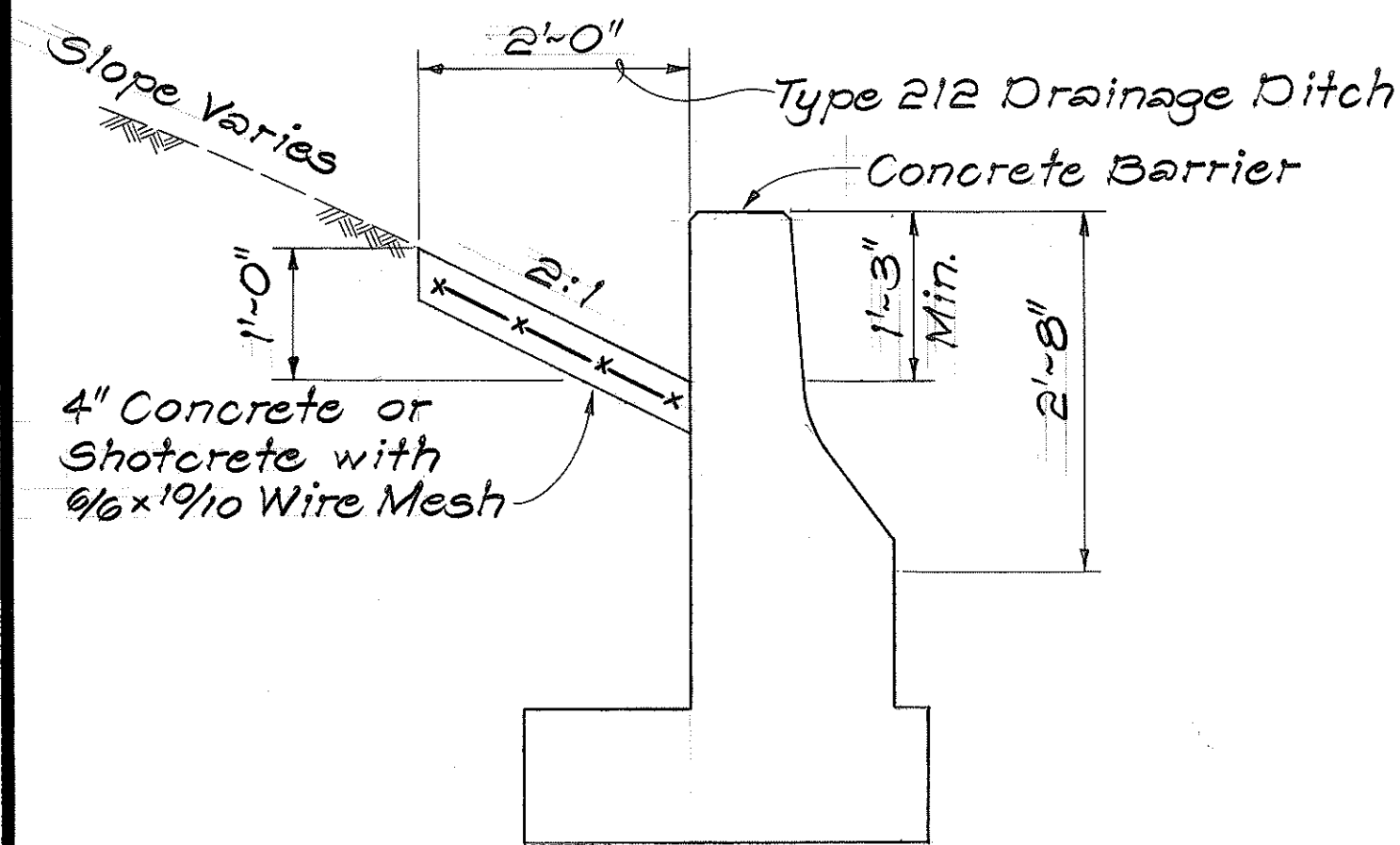
NOTE
10' Transition from Type 2(611.513.75),
Sta. 12+50 to Type 2(61515.5),
Sta. 12+60



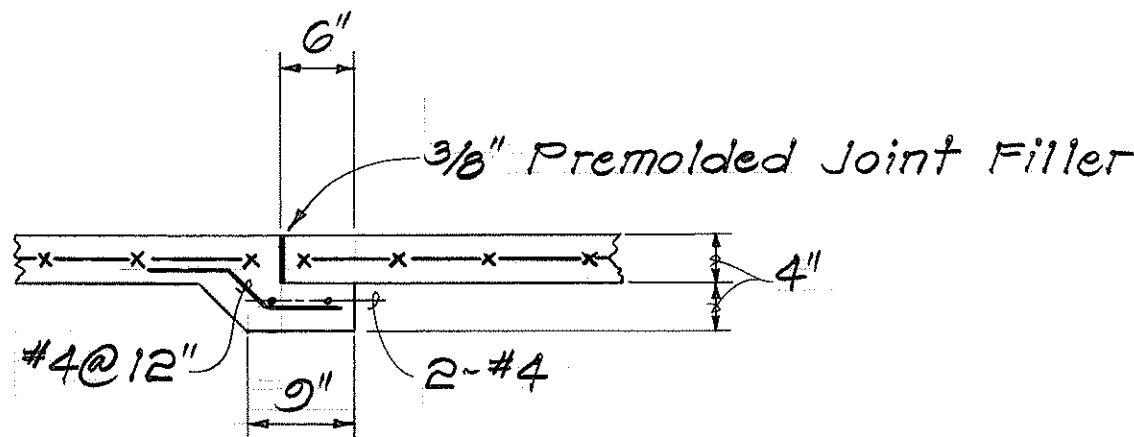
TYPICAL TYPE 2(611.513.75) CONCRETE GUTTER
RAMP E STA. 8+25 TO STA. 12+60



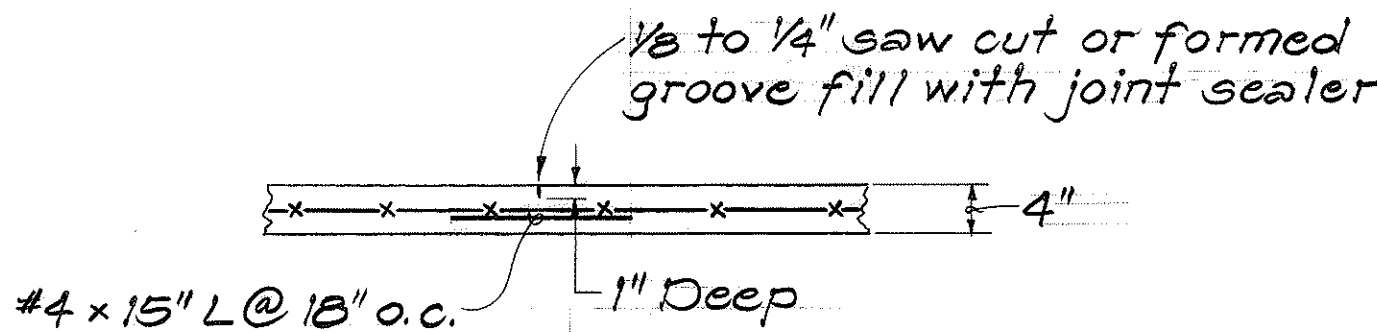
TYPICAL TYPE 2(61515.5) CONCRETE GUTTER
RAMP E STA. 12+60 TO STA. 22+35



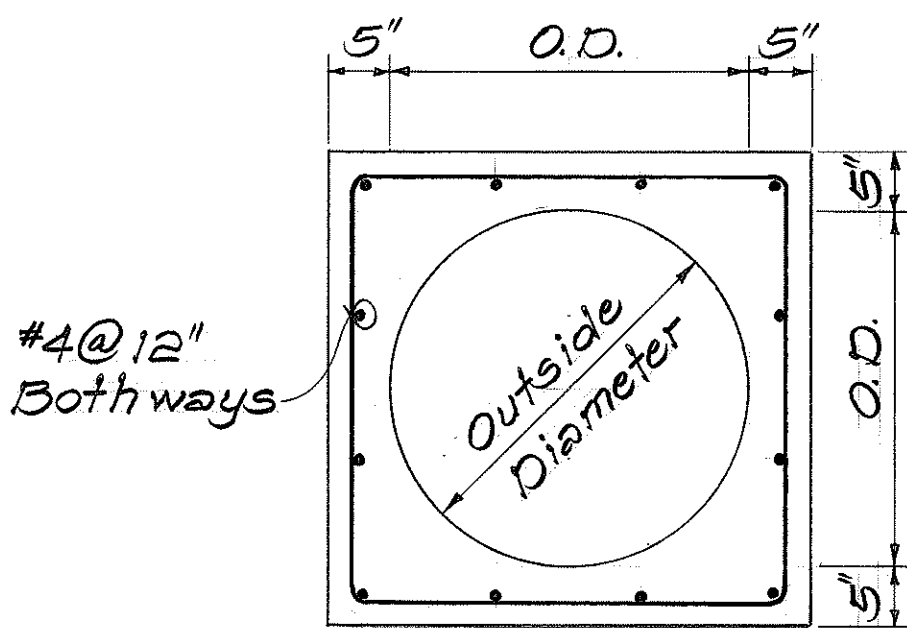
TYPICAL TYPE LINED DRAINAGE DITCH,
TYPE 212 RAMP E STA. 29+70 TO 41+56.14



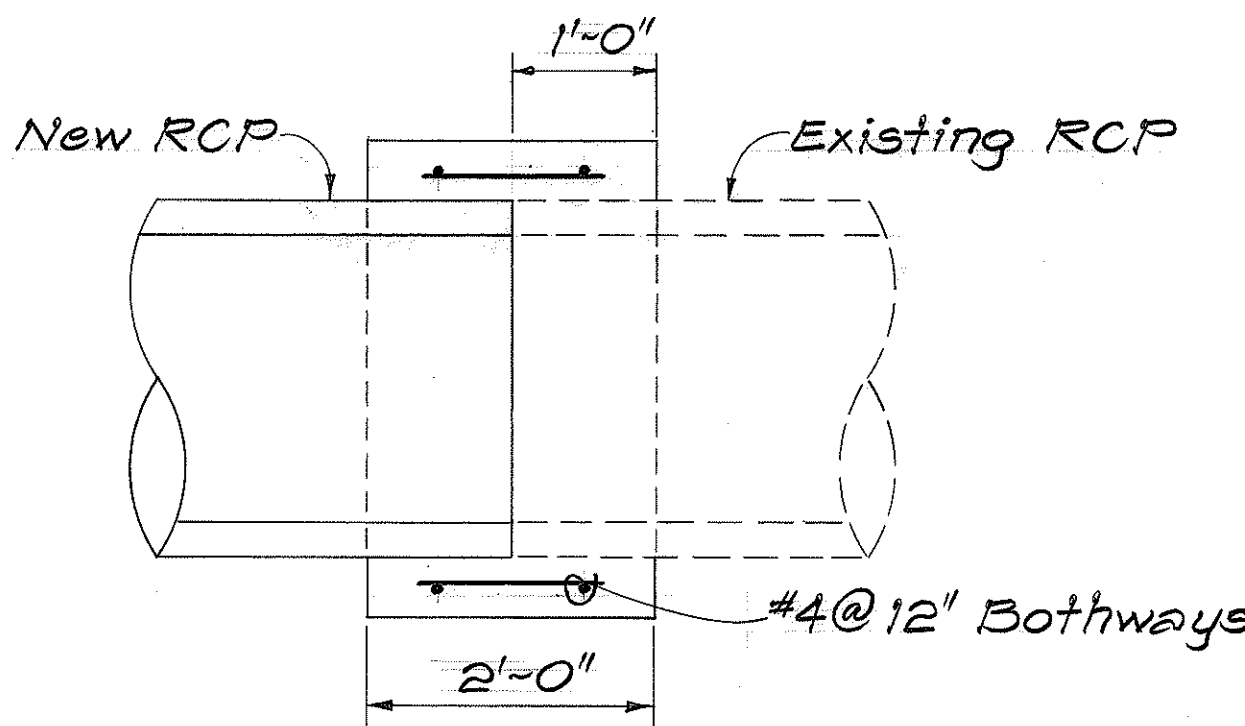
TYPICAL DETAIL OF EXPANSION JOINT
AT 90' O.C. SPACING FOR GUTTER
AND LINED DRAINAGE DITCH



TYPICAL DETAIL OF CONTRACTION JOINT
AT 30' O.C. SPACING FOR GUTTER
AND LINED DRAINAGE DITCH



ELEVATION



SECTION

CONCRETE COLLAR DETAIL

GENERAL NOTES

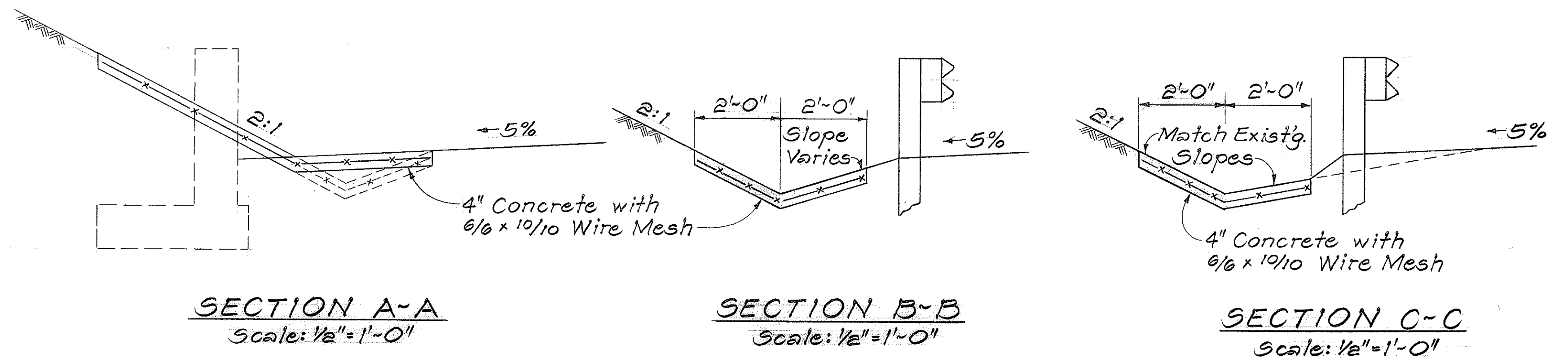
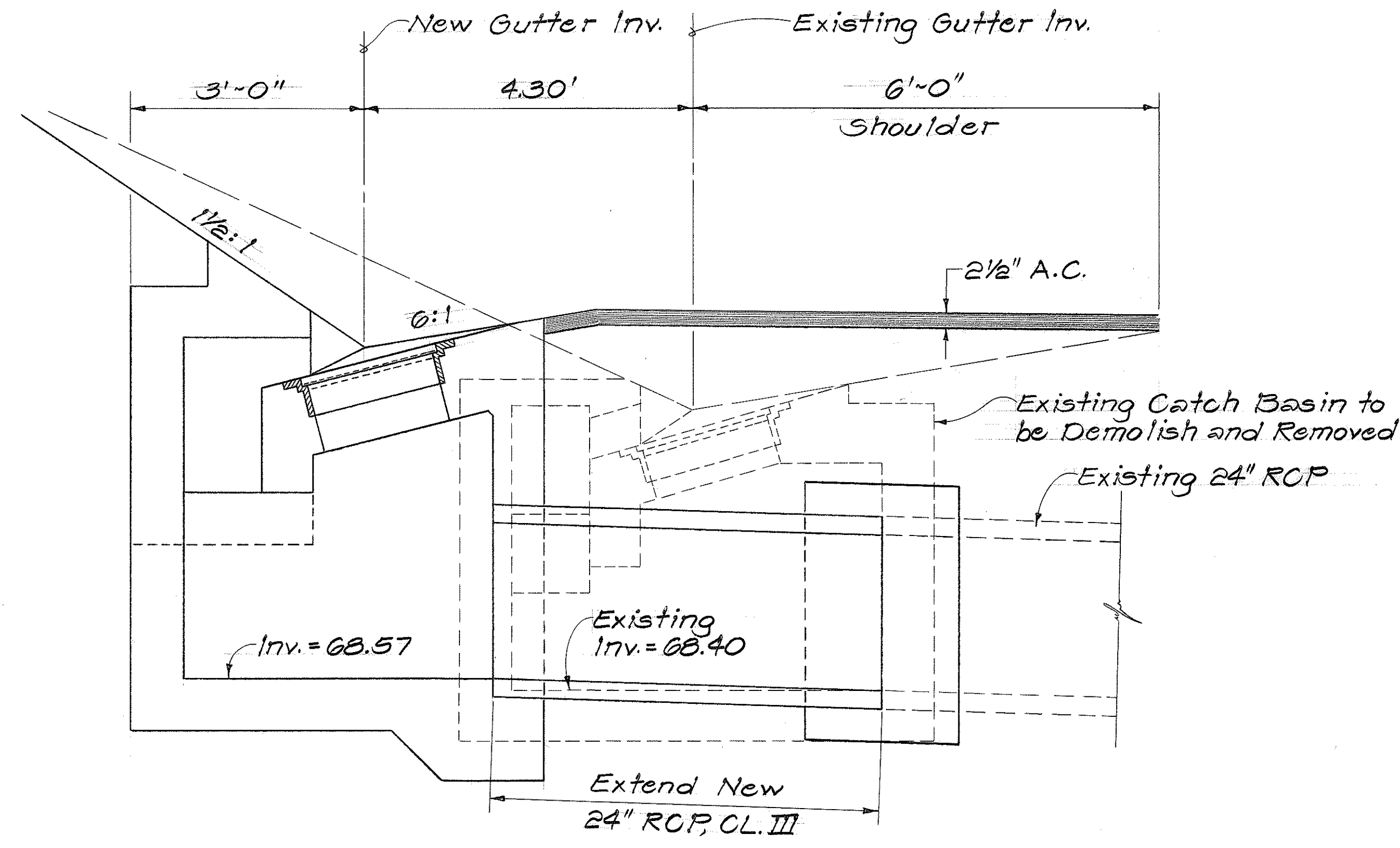
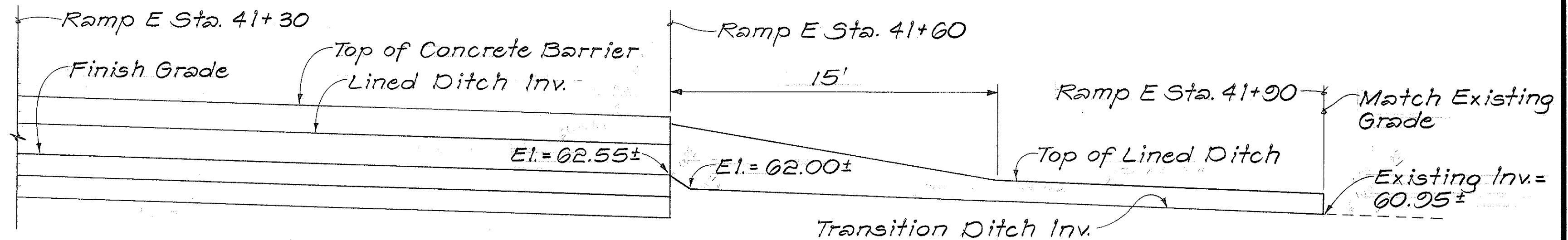
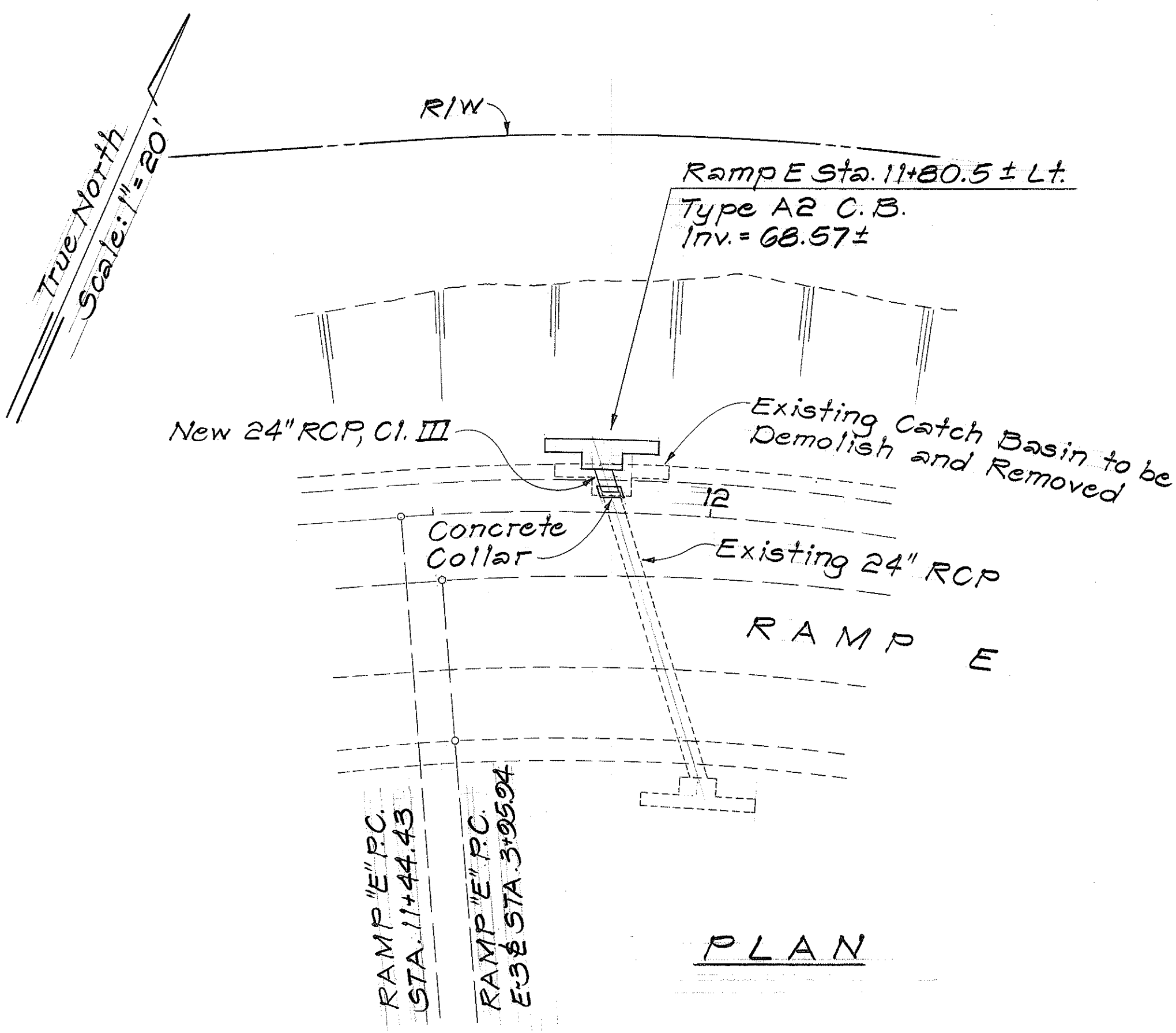
1. Demolishing, removing, and disposing the entire existing drainage structure shall not be paid for separately, but shall be incidental to the various contract items in the proposal.
2. Concrete Collar for concrete pipe connection shall not be paid for separately, but shall be incidental to the concrete pipe.

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
INTERSTATE ROUTE H-1
PEARL CITY OFF-RAMP IMPROVEMENTS
F.A.I. PROJ. NO. IIR-H1-1(165):10
Scale: As Noted Date: Feb. 1983
SHEET NO. 1 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-IR-H-1(165):10	1983	21	64



NOTE:
Existing Type A Cast Iron Frame and Cover shall be removed, cleaned, painted and reinstalled. Measurement and Payment shall be part of structure cost.

DATE	REVISION
4-14-83	Revise details of Type 212 Lined Drainage Ditch Transition

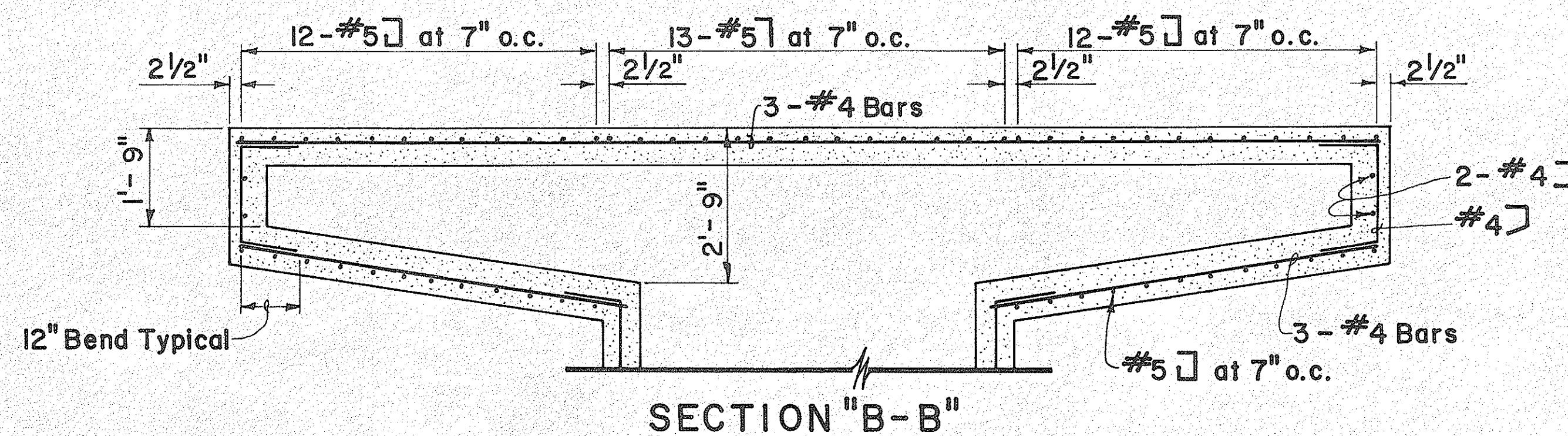
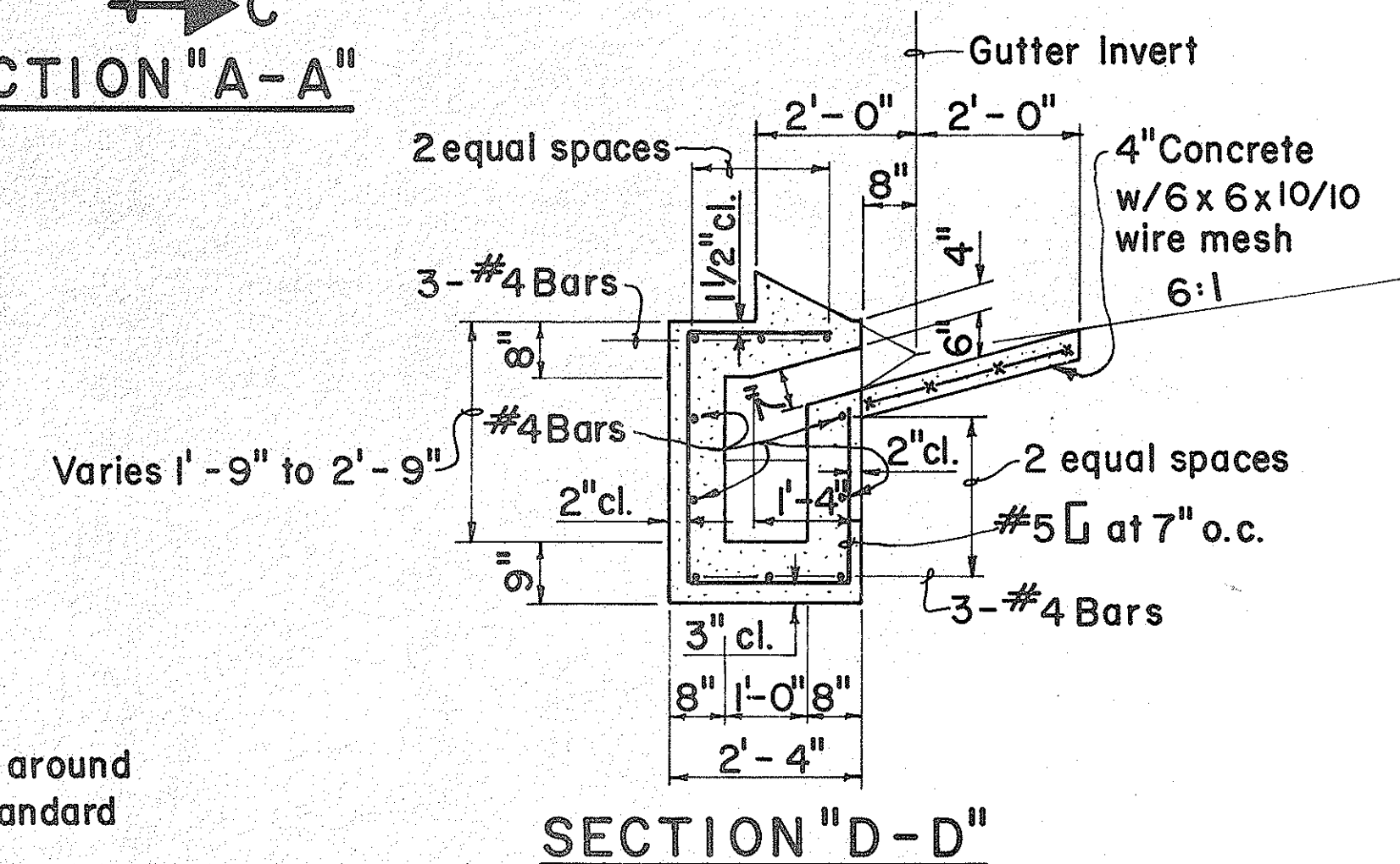
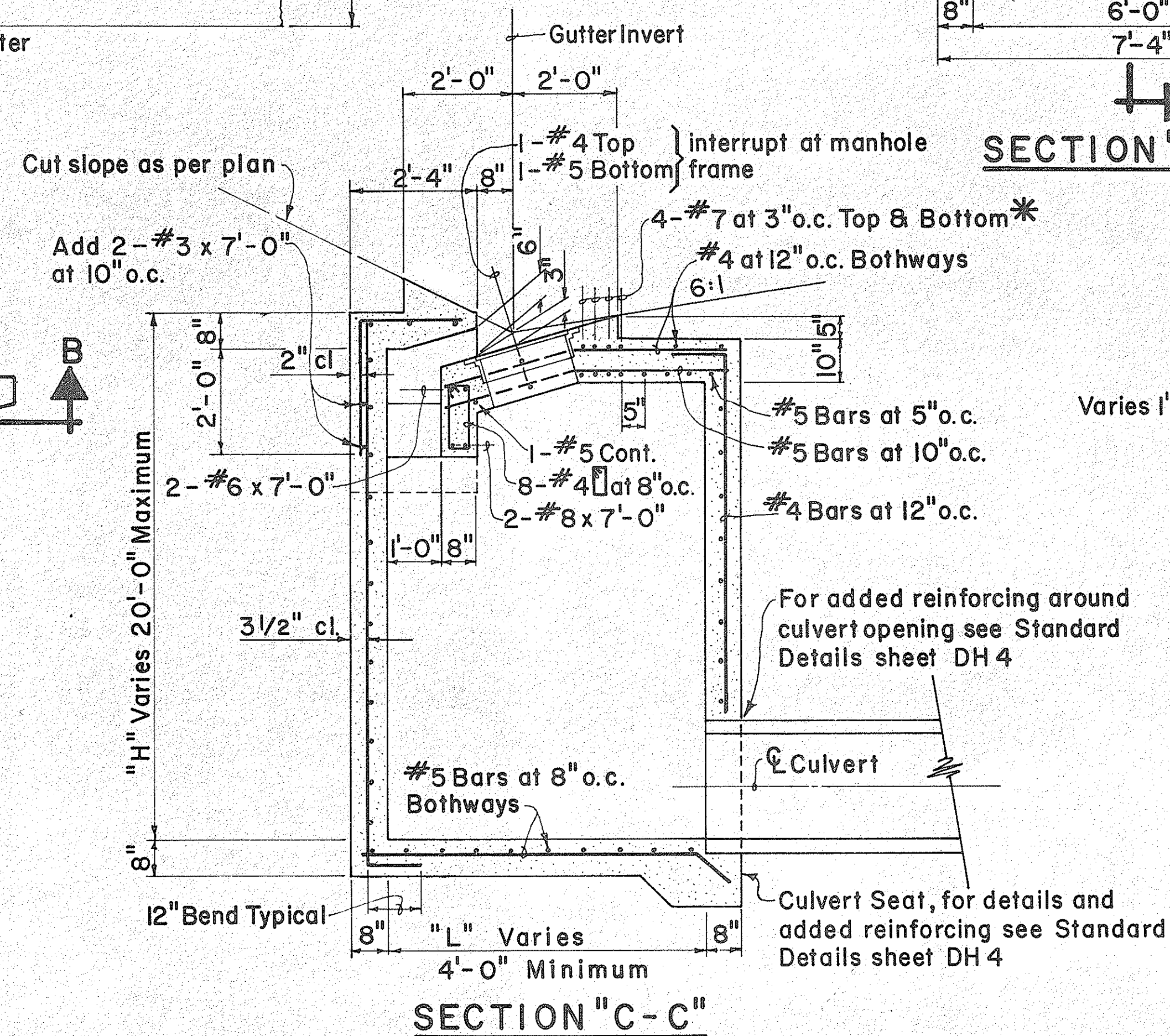
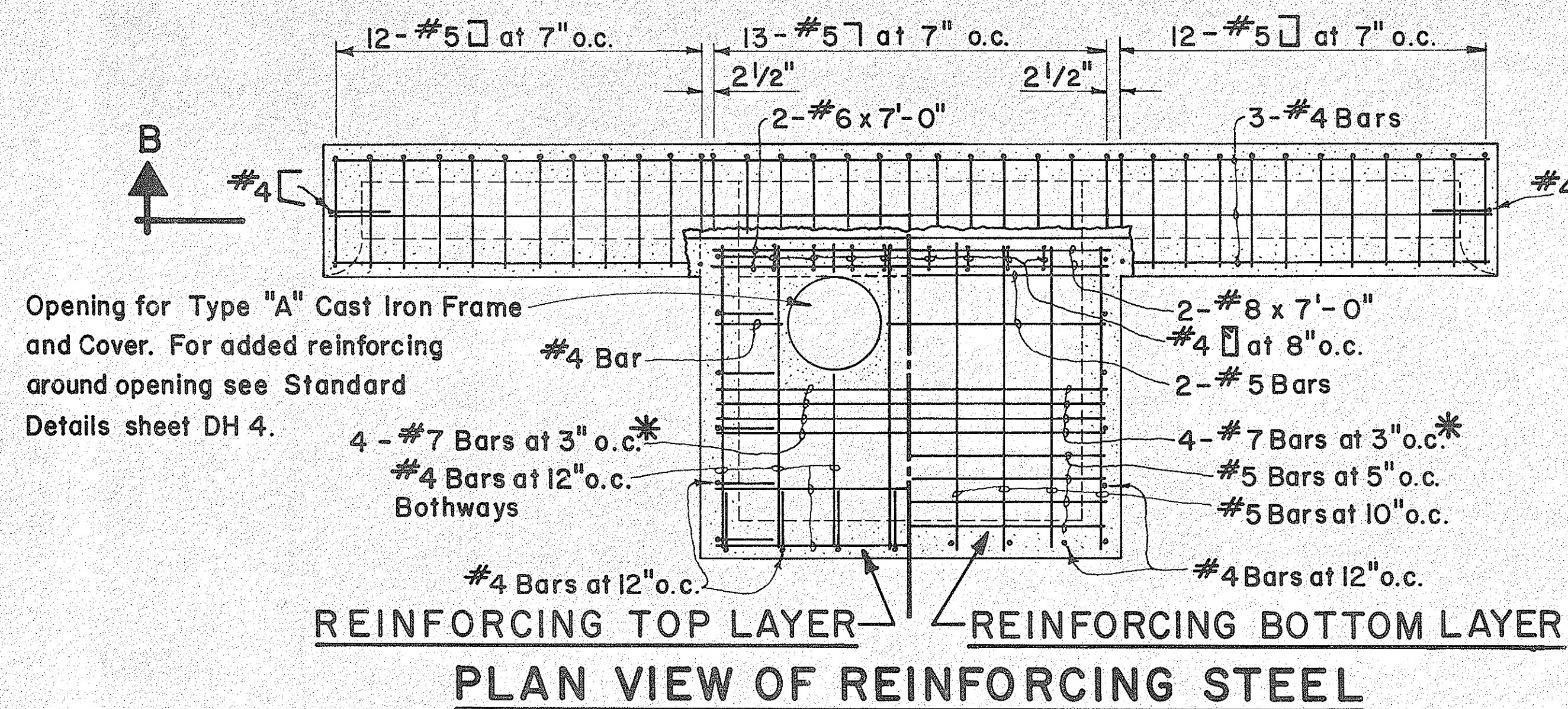
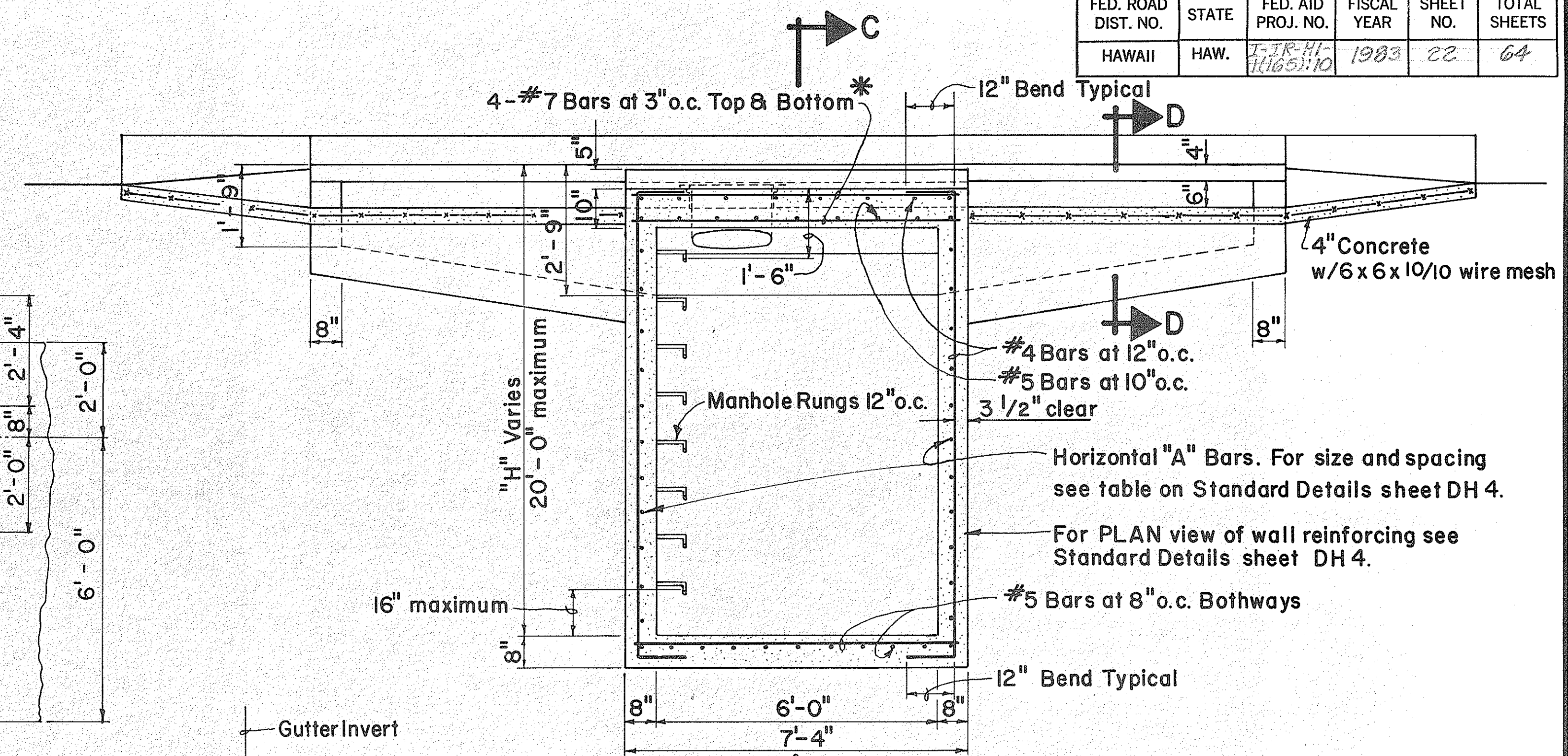
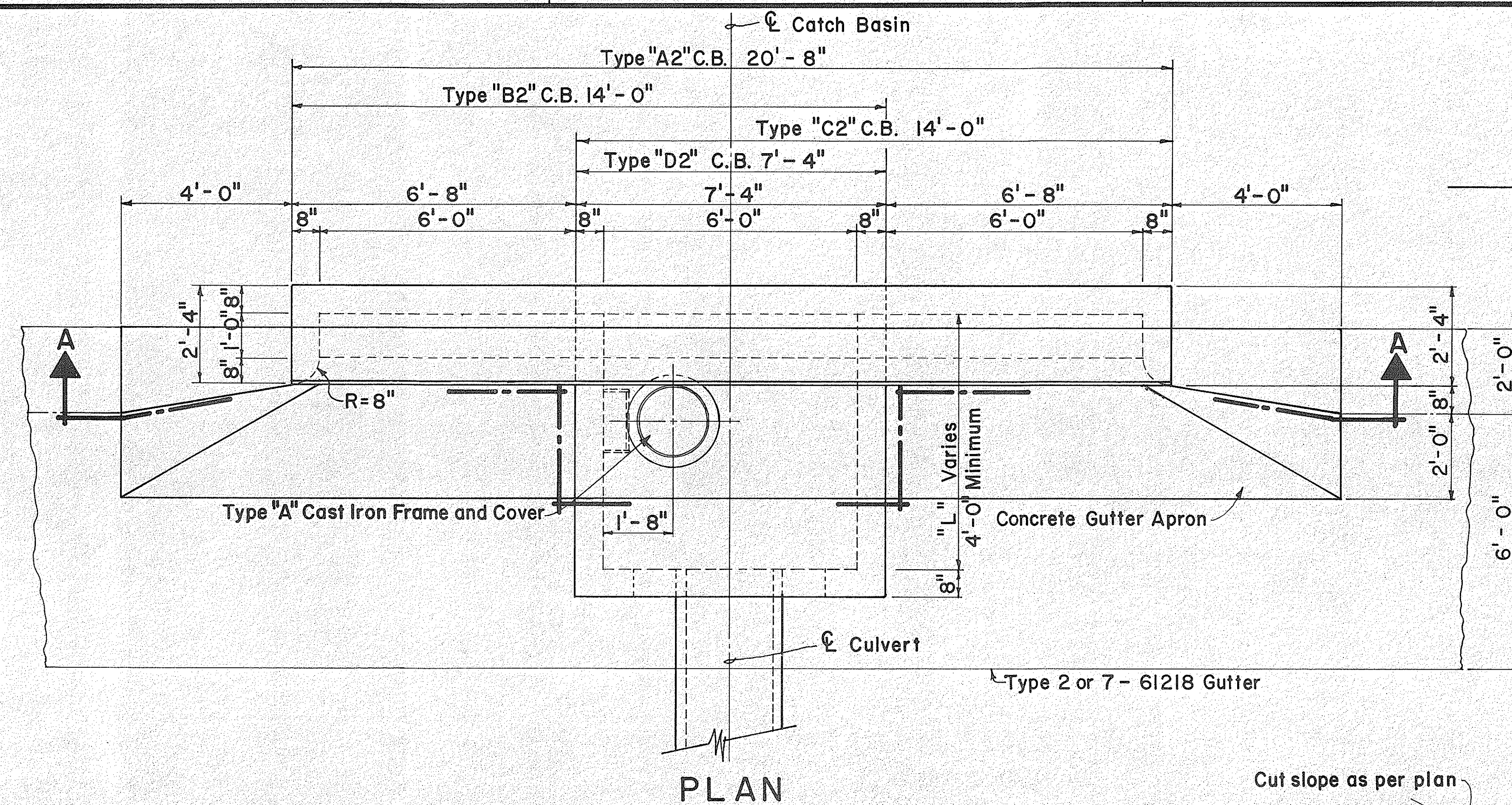
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

INTERSTATE ROUTE H-1
PEARL CITY OFF-RAMP IMPROVEMENTS
F.A.I. PROJ. NO. I-IR-H-1(165):10
Scale: As Noted Date: Feb. 1983

SHEET NO. 2 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-TP-HI- 1165-10	1983	22	64



*Replace these bars with #4 Bars at 12" o.c. Top and #5 Bars at 5" o.c. Bottom for "L" less than 5'-0".

NO.	REVISION	APPROVED BY	DATE
1.	Supersedes Sht. DH 4 approved 12-17-69 and replaces Sht. DH 3 approved 12-17-69.	H.R.	12/4/69

APPROVAL RECOMMENDED: *Eph H. Se* 12/3/80
HYDRAULIC DESIGN ENGINEER DATE

APPROVED: *Herbert Zaleish* 12/4/80
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

TYPE A2,B2,C2 AND D2

CATCH BASIN

Not To Scale Date: Dec. 1980

SHEET No. 3 OF 3 SHEETS DH 3