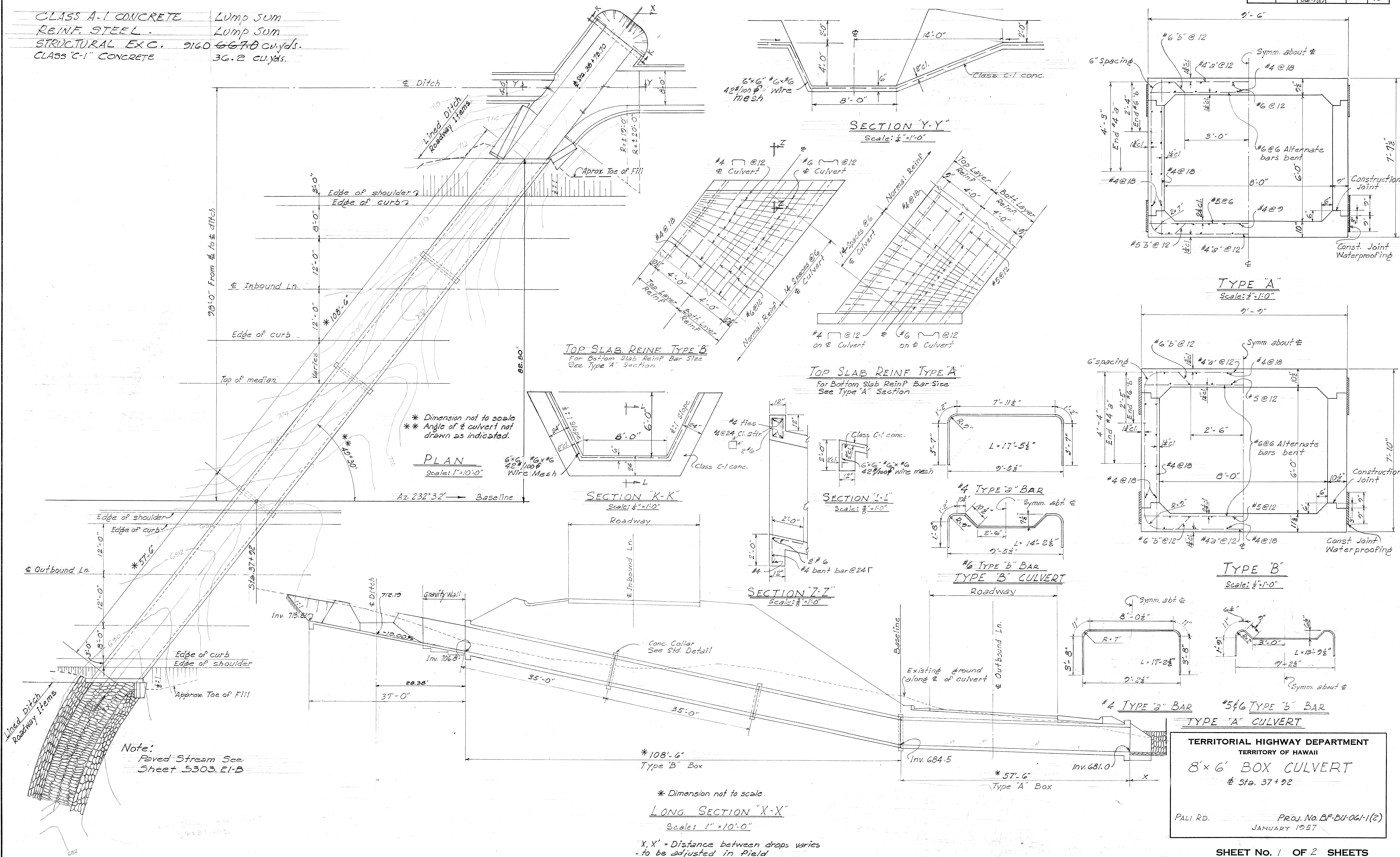


ESTIMATED QUANTITIES

CLASS A-1 CONCRETE Lump Sum
 REINF. STEEL Lump Sum
 STRUCTURAL EXC. 2160 ~~667.0~~ cu.yds.
 CLASS "C-1" CONCRETE 36.2 cu.yds.

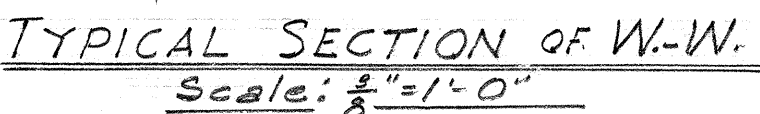
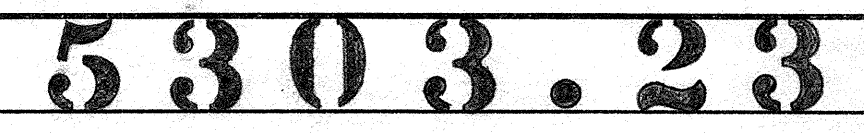
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
Haw. 811	Haw.	87-201	1957	22	48



TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 8' x 6' BOX CULVERT
 # Sta. 37+92

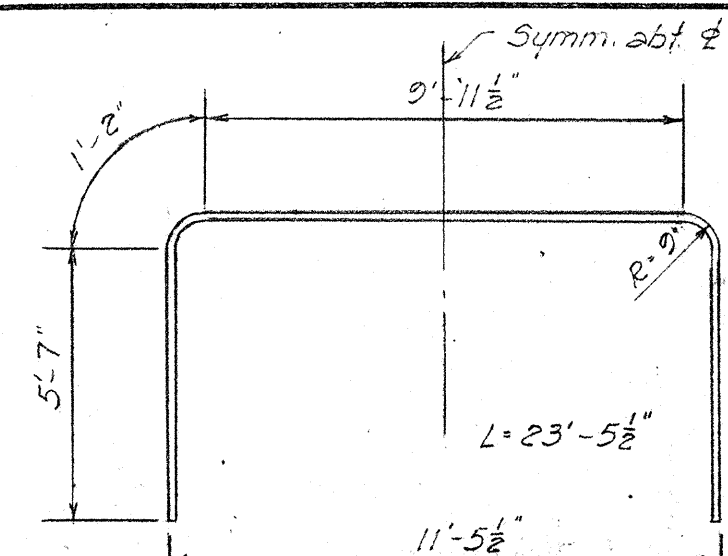
PALI RD. PROJ. No. BF-BU-061-1(2)
 JANUARY 1957

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY <i>L. S. Barthelemy</i>	<i>JAN. 57</i>
	DRAWN BY <i>T. Matsui</i>	" "
	TRACED BY " "	" "
	QUANTITIES BY <i>T. Matsui</i>	" "
	QUANTITIES CHECKED BY <i>A. Tamura</i>	" "
	CHECKED BY <i>Y. K. Wang, P. Yamashita</i>	<i>FEB. 57</i>

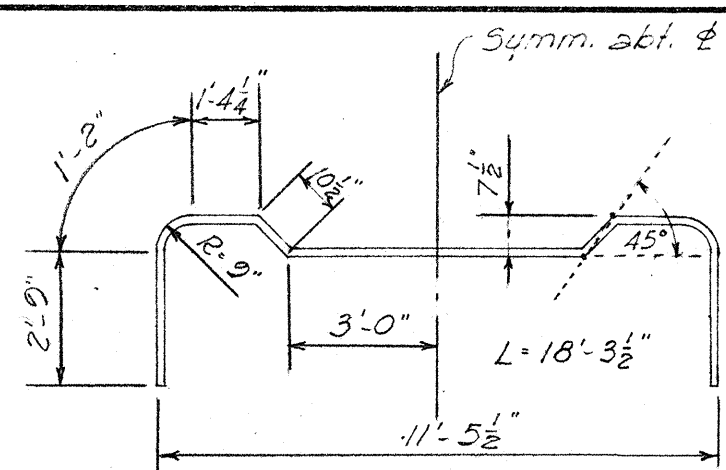


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	21-BU-061-1(2)	1957	25	49

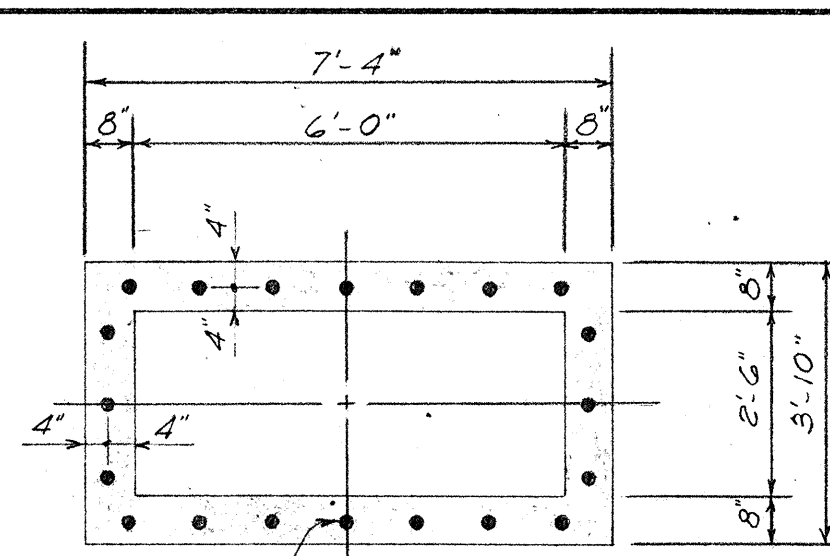
Revised 7-30-57



#4 "a" Bars
Length varies at Intake & Outlet

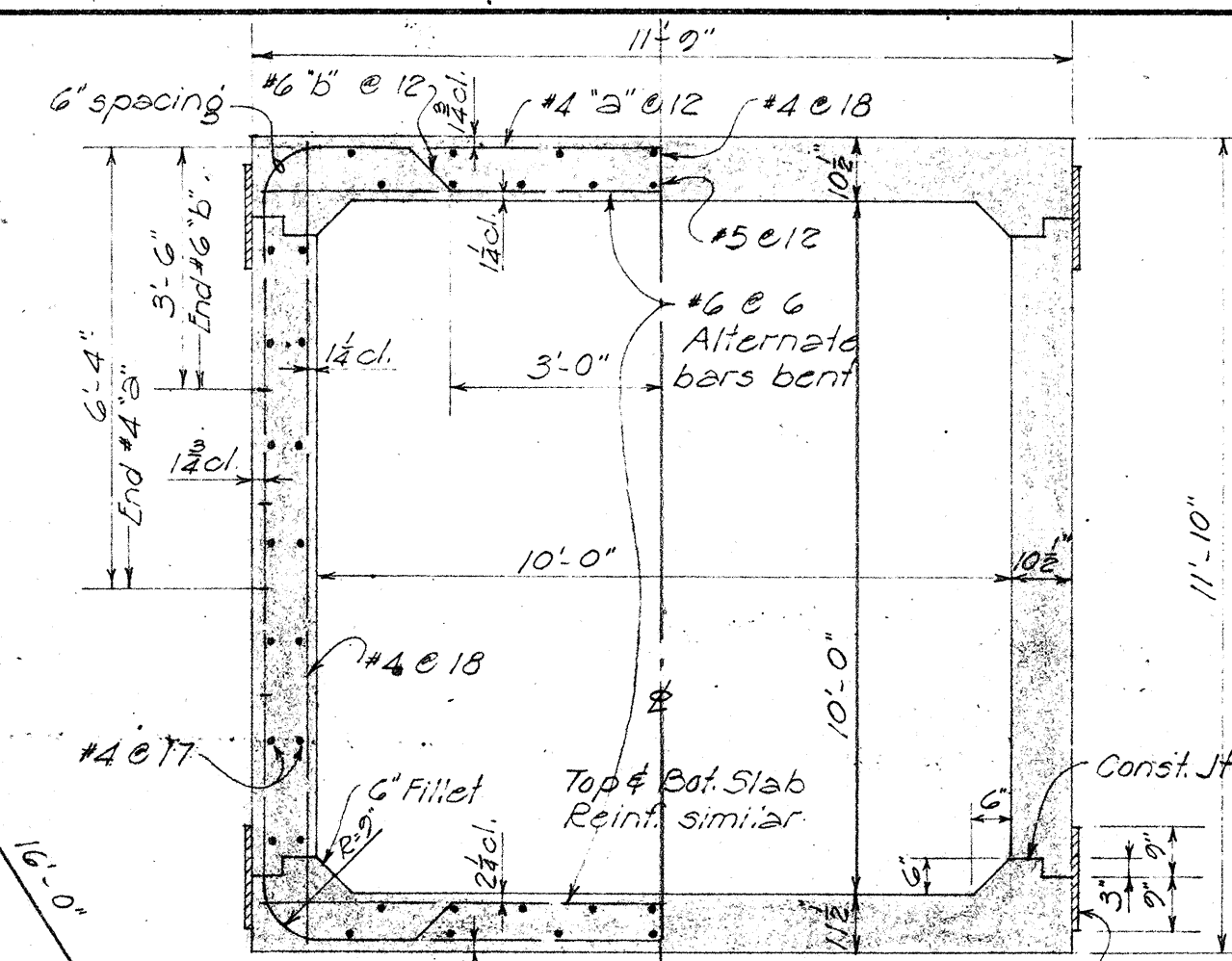


#6 "b" Bars
Length varies at Intake & Outlet

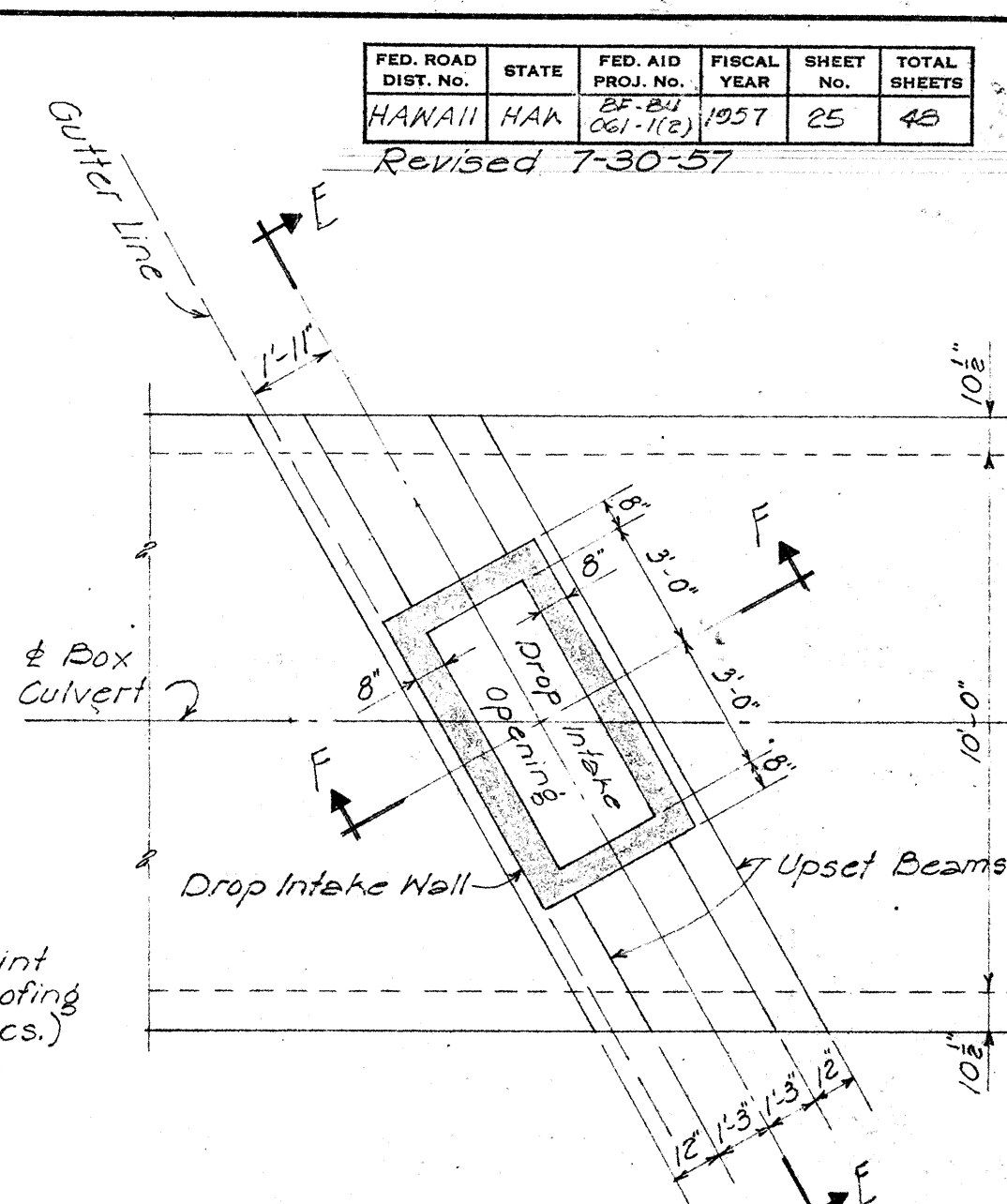


#4 @ 12 Dannels
2'-6\"/>

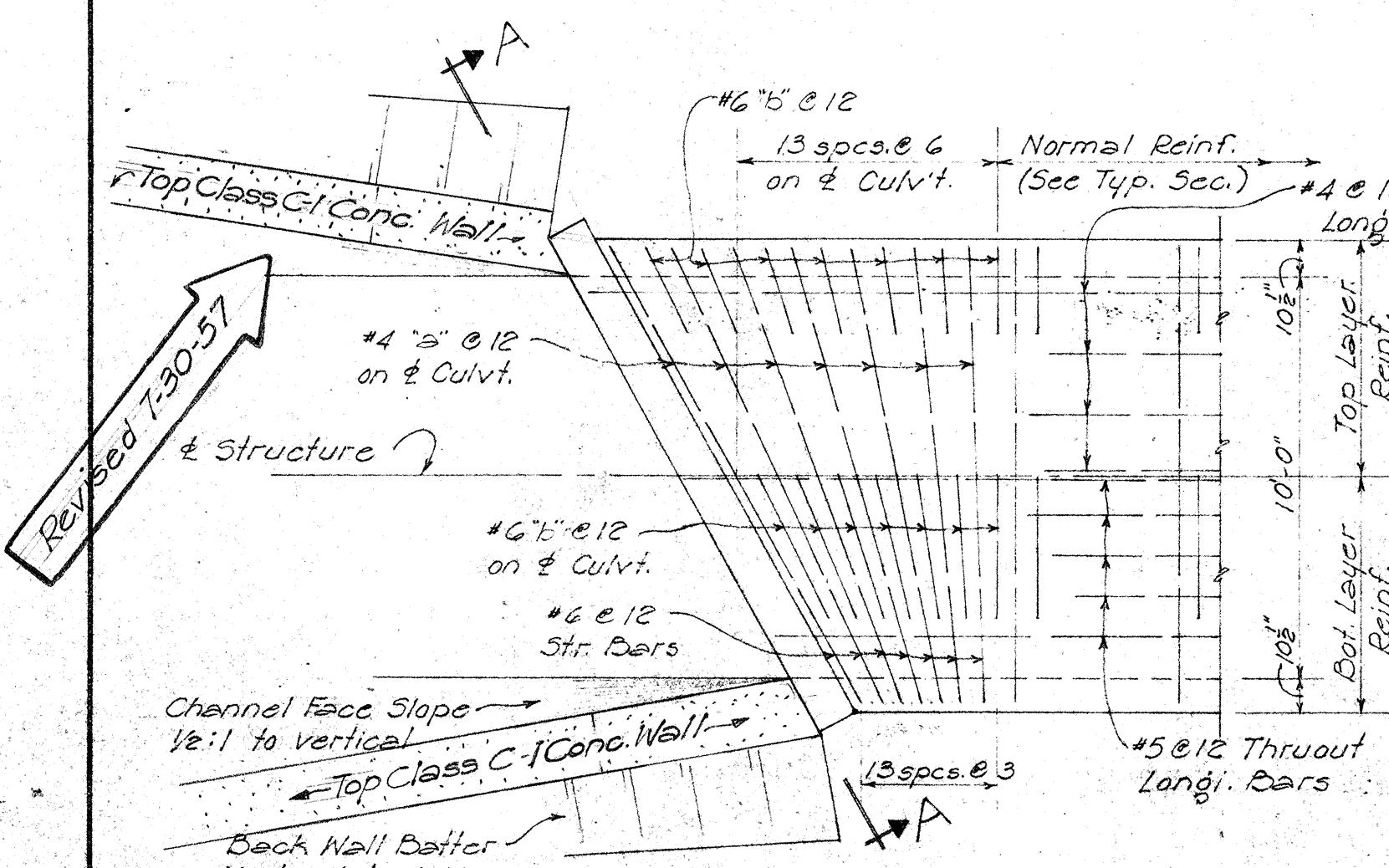
SECTION G-G
Scale - 3/8" = 1'-0"



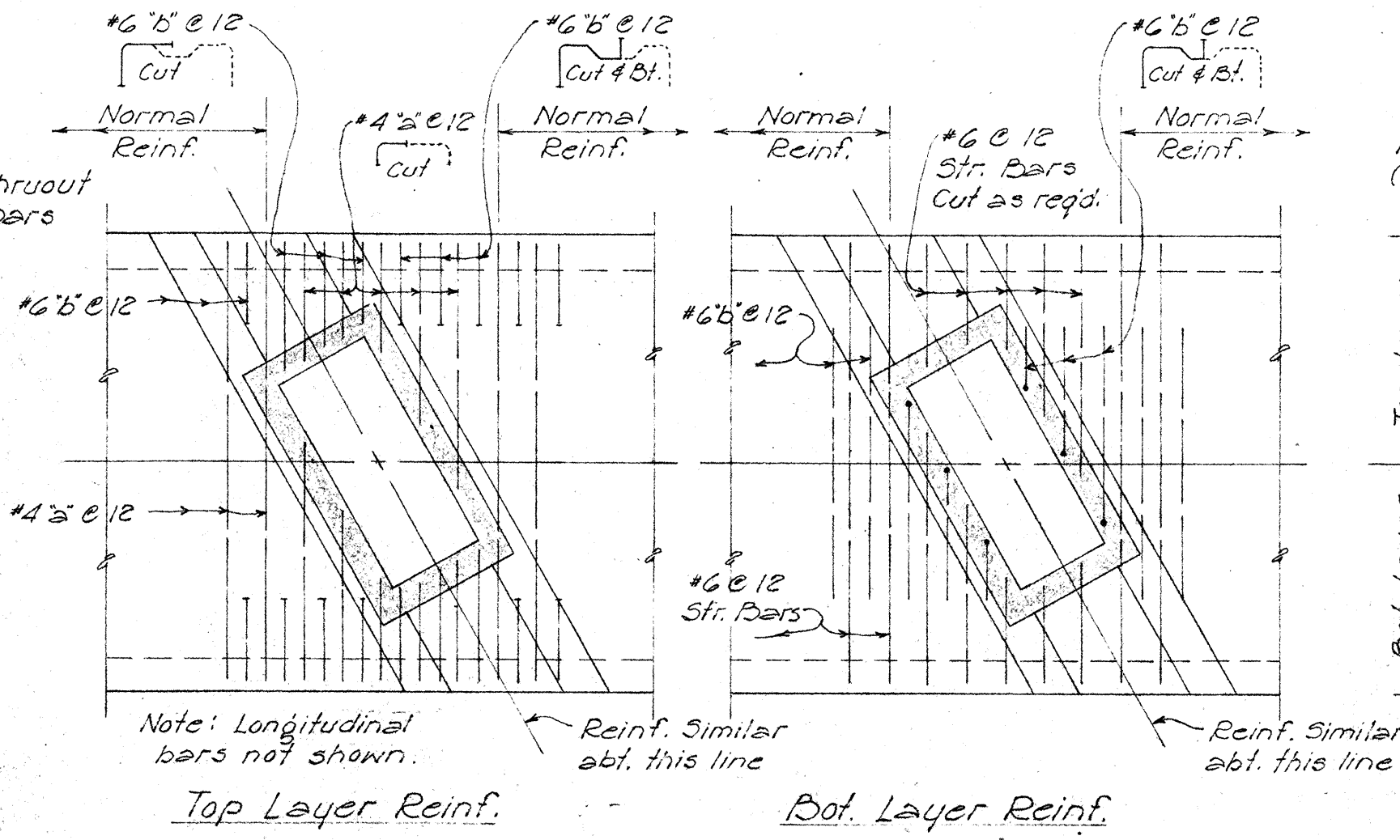
TYPICAL SECTION
Scale - 3/8" = 1'-0"



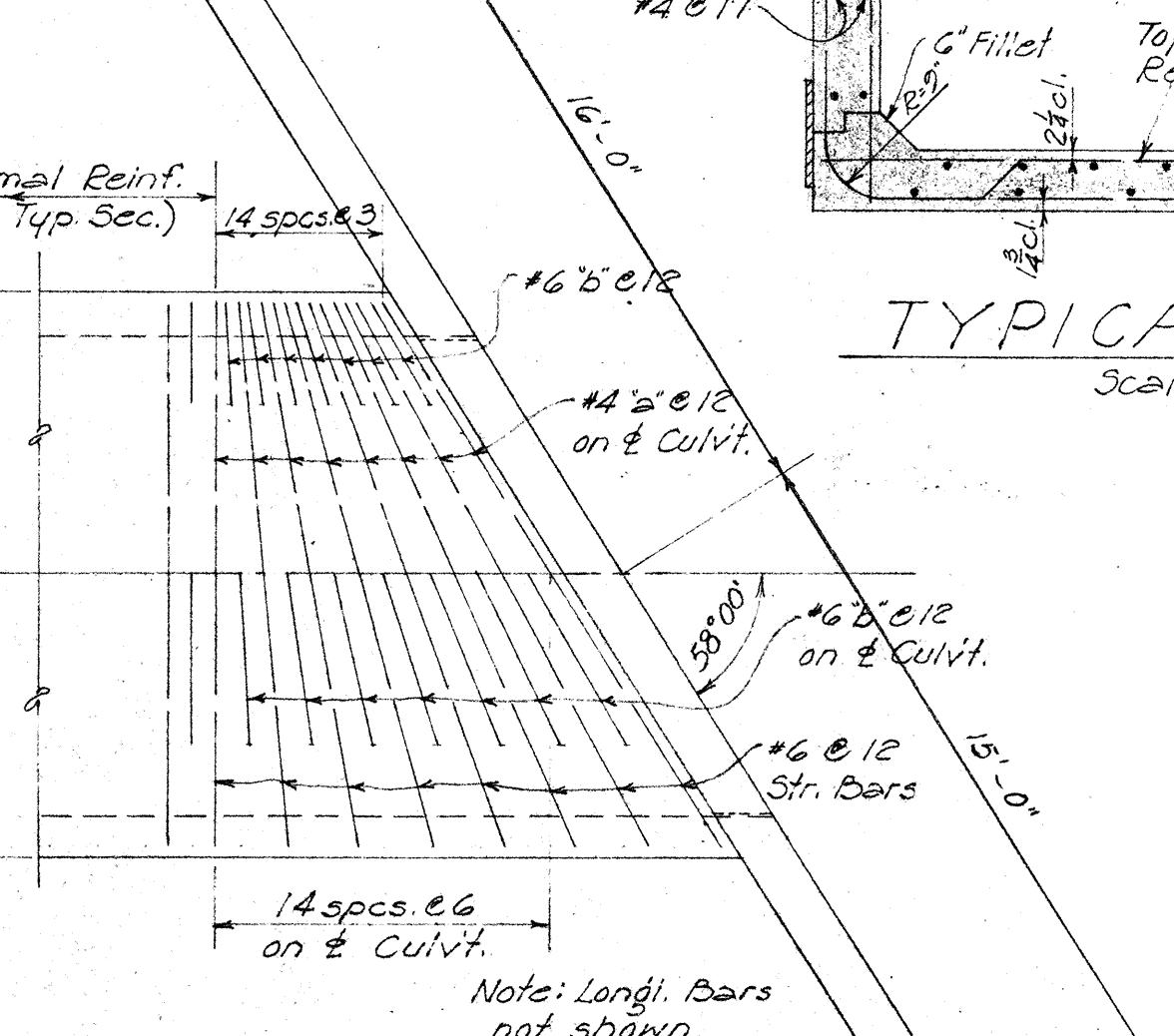
PART PLAN H-H
Scale - 1/4" = 1'-0"



INTAKE



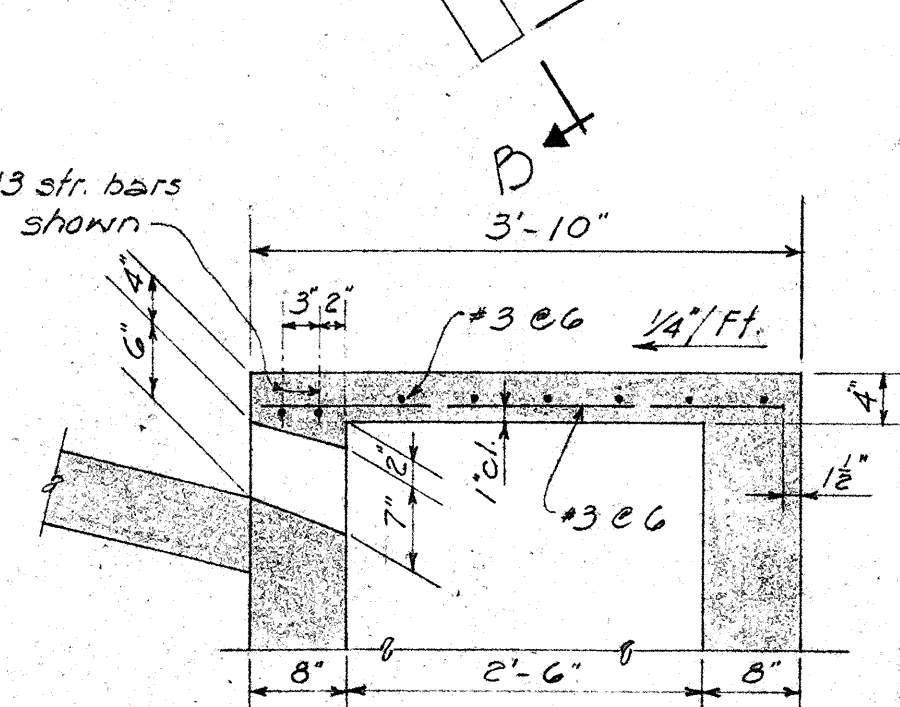
DROP INTAKE



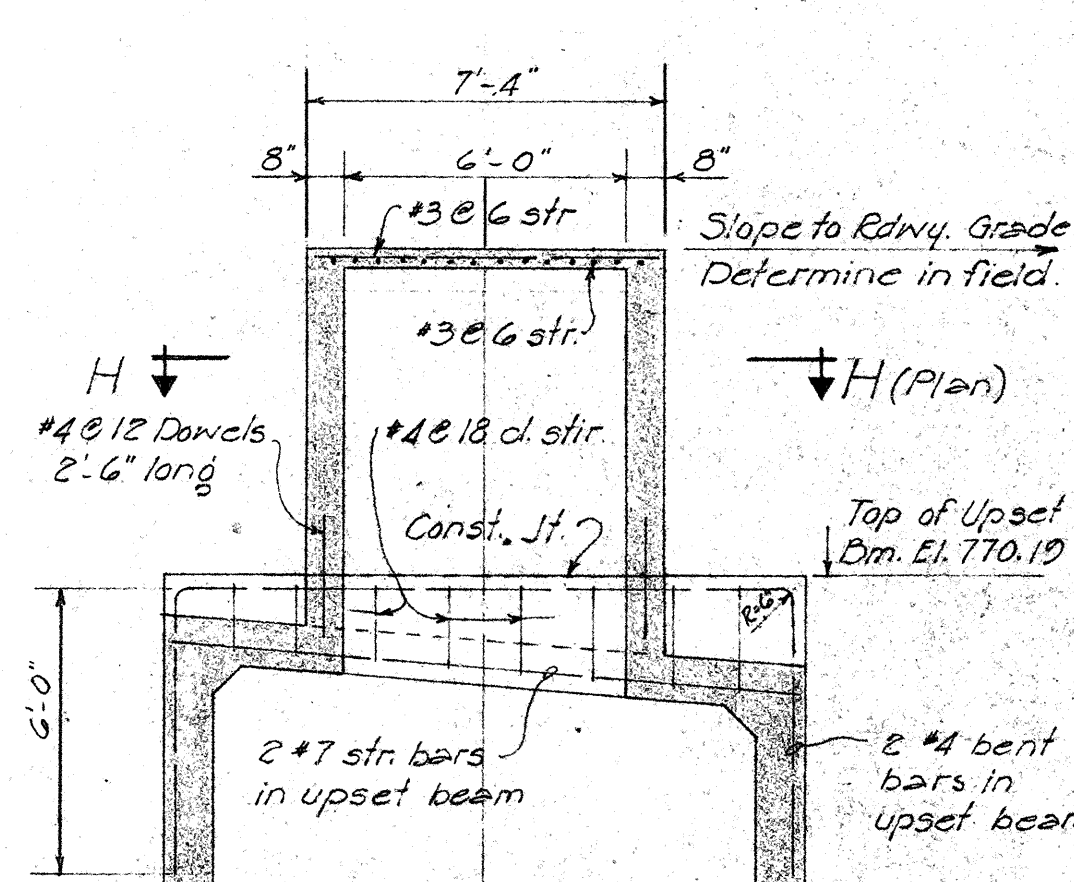
OUTLET

TOP SLAB REINF. PLAN
Scale - 1/4" = 1'-0"

SECTION J-J
Scale - 3/8" = 1'-0"



DETAIL A
Scale - 3/4" = 1'-0"



SECTION E-E
Scale - 1/4" = 1'-0"

DATE	1-21
DESIGNED BY	W. J. Fanning
DRAWN BY	W. J. Fanning
CHECKED BY	W. J. Fanning
NOTED BY	W. J. Fanning
ORIGINAL	1-21
PLAN	1-21
NOTE BOOK	1-21
NO. 1	1-21

SECTION F-F
Scale - 3/8" = 1'-0"

SECTION I-I
Scale - 1/4" = 1'-0"

SECTION J-J
Scale - 3/8" = 1'-0"

DETAIL A
Scale - 3/4" = 1'-0"

SECTION E-E
Scale - 1/4" = 1'-0"

ELEV. A-A INTAKE
Scale - 1/4" = 1'-0"

SECTION C-C
Scale - 1/4" = 1'-0"

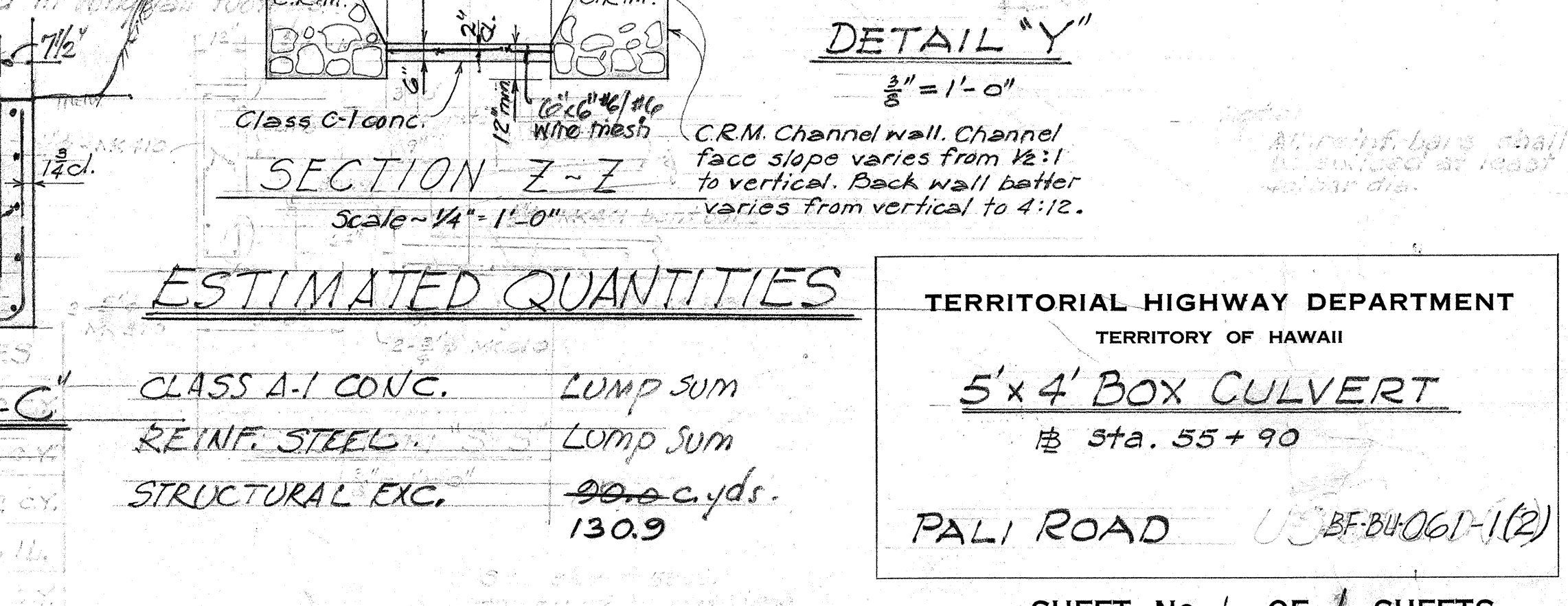
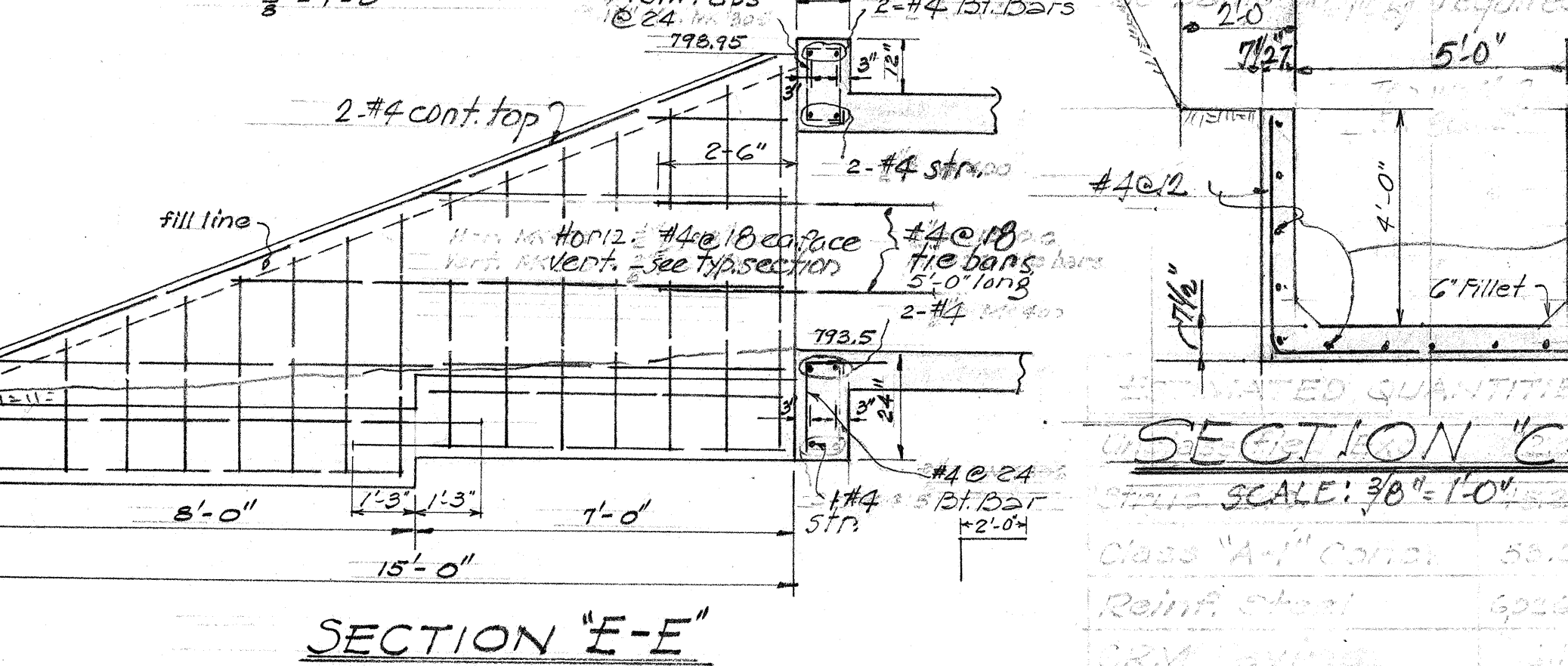
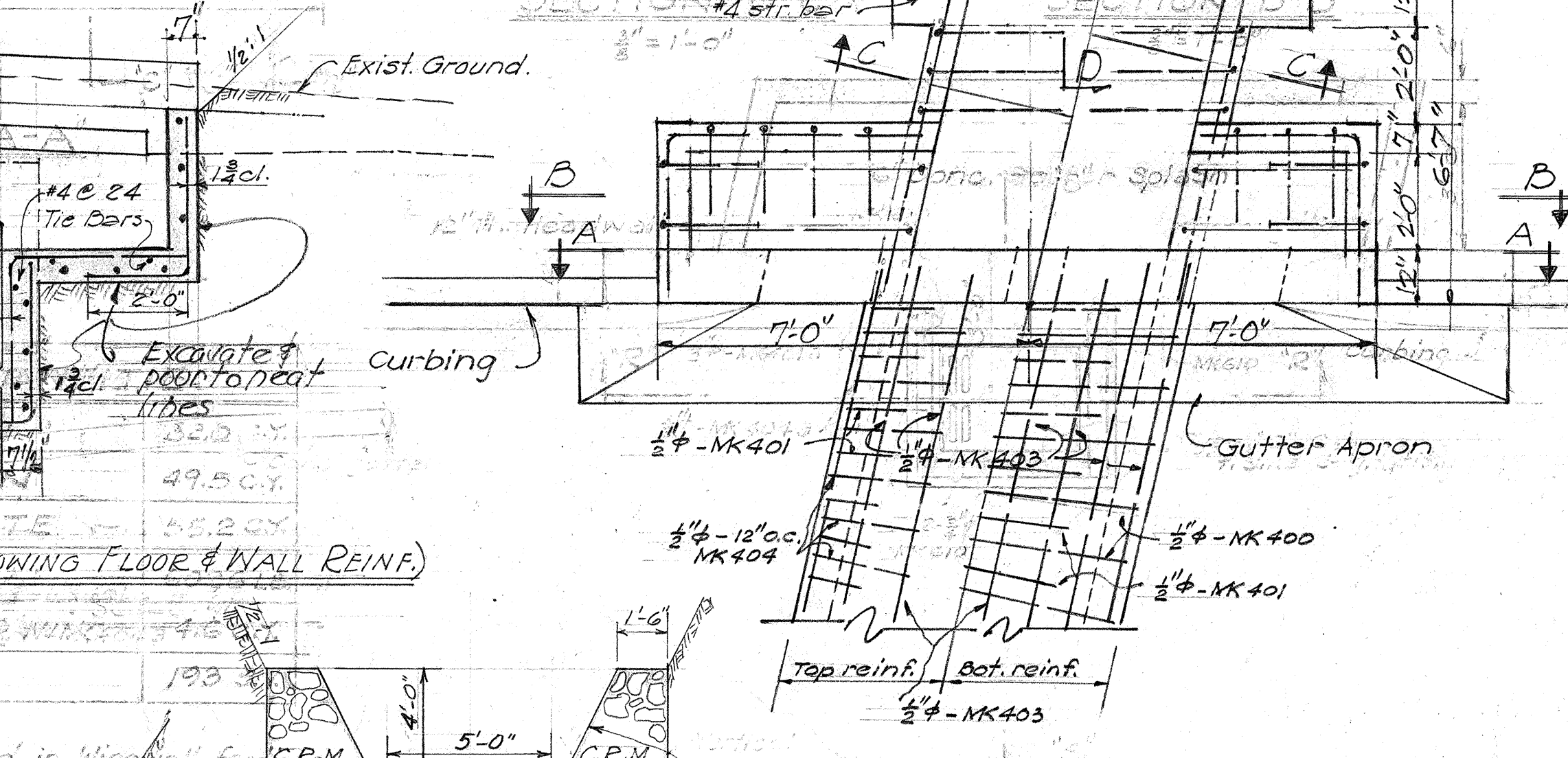
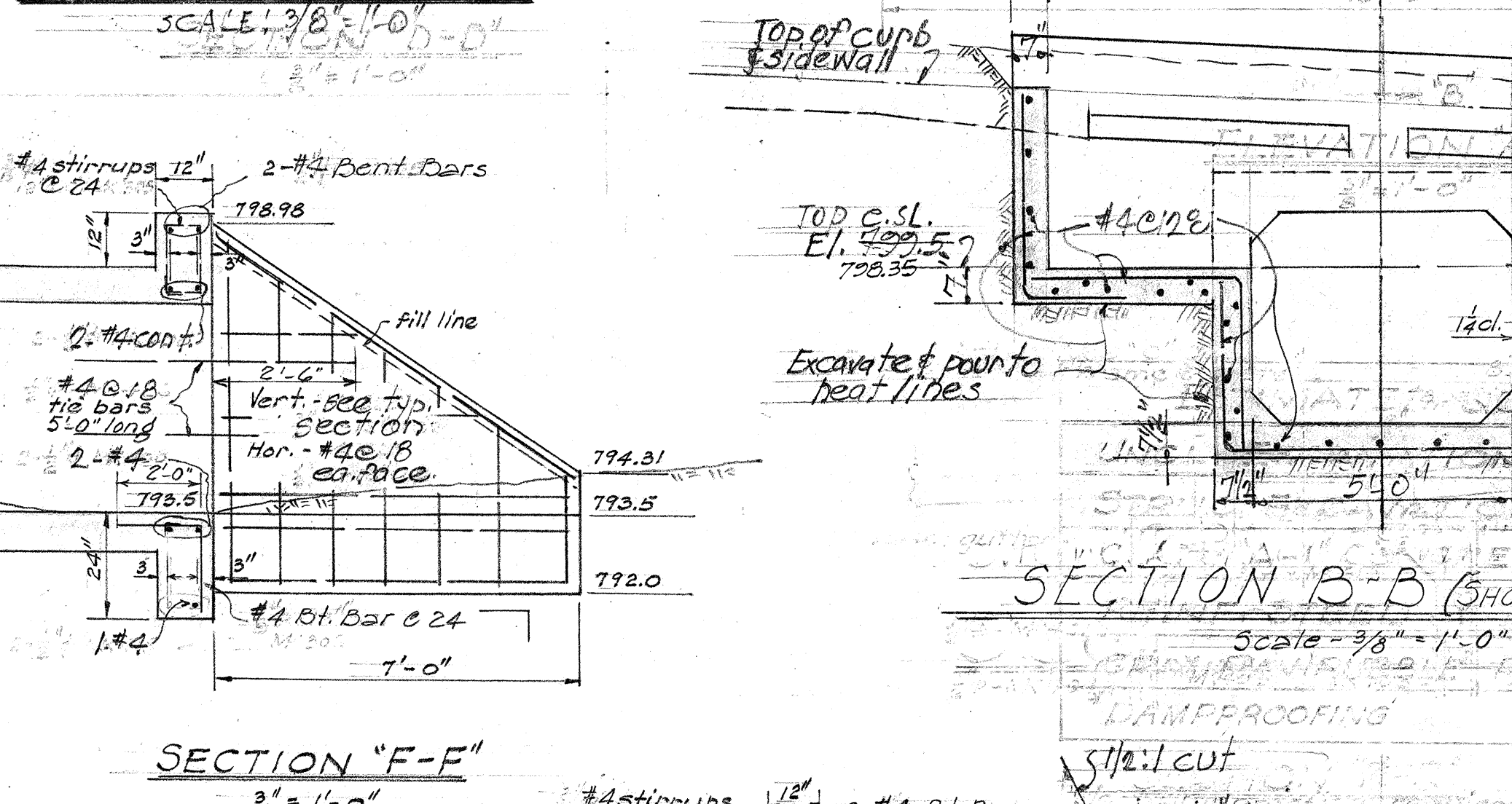
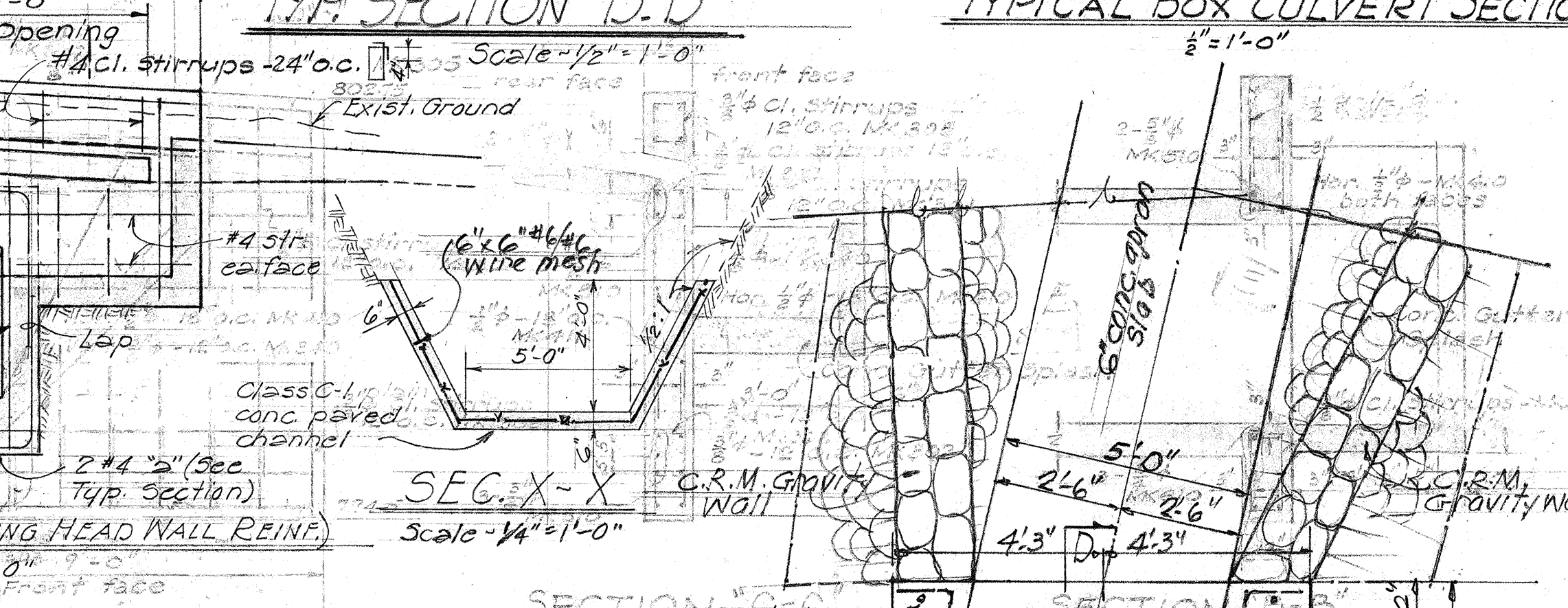
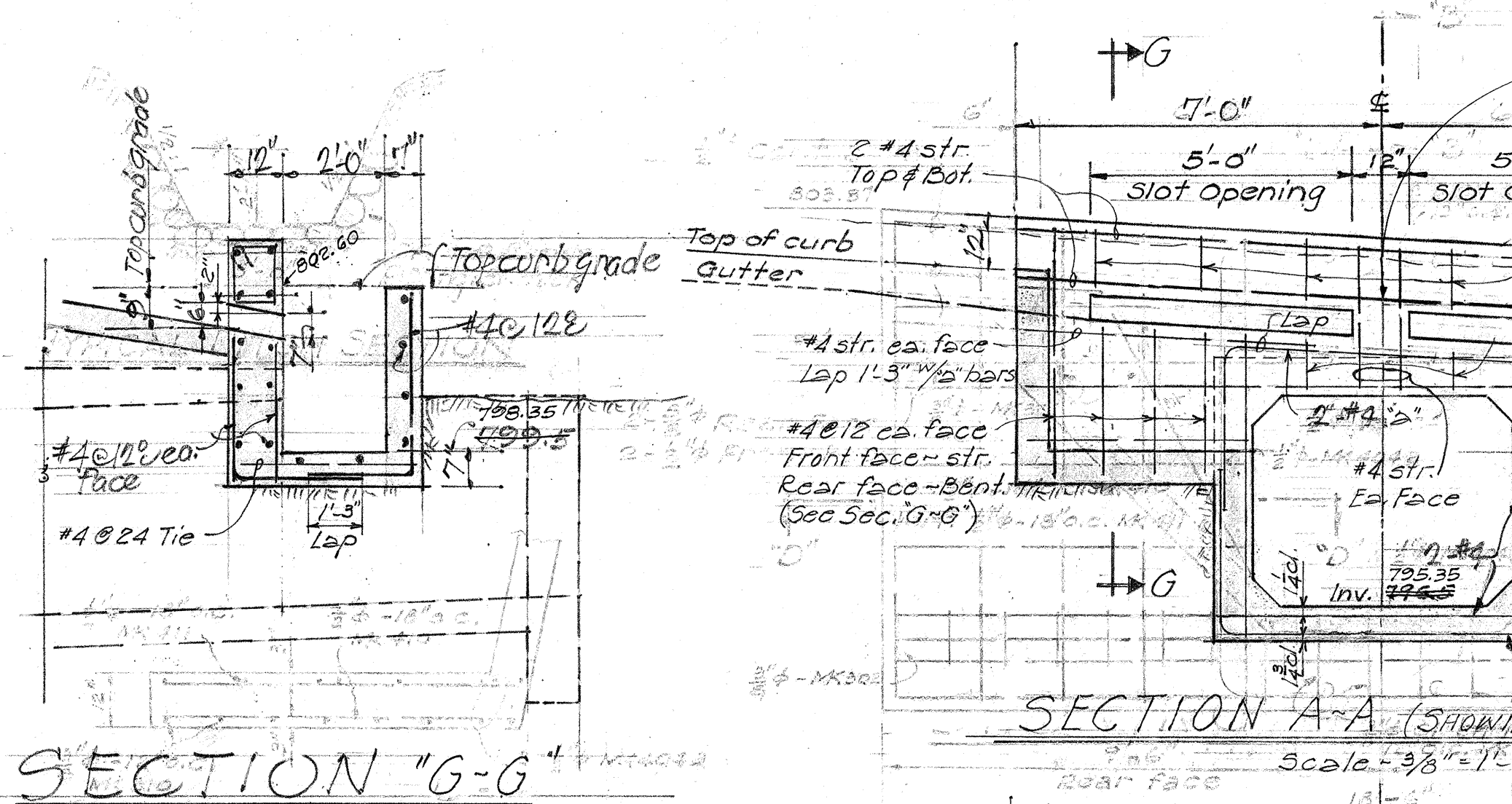
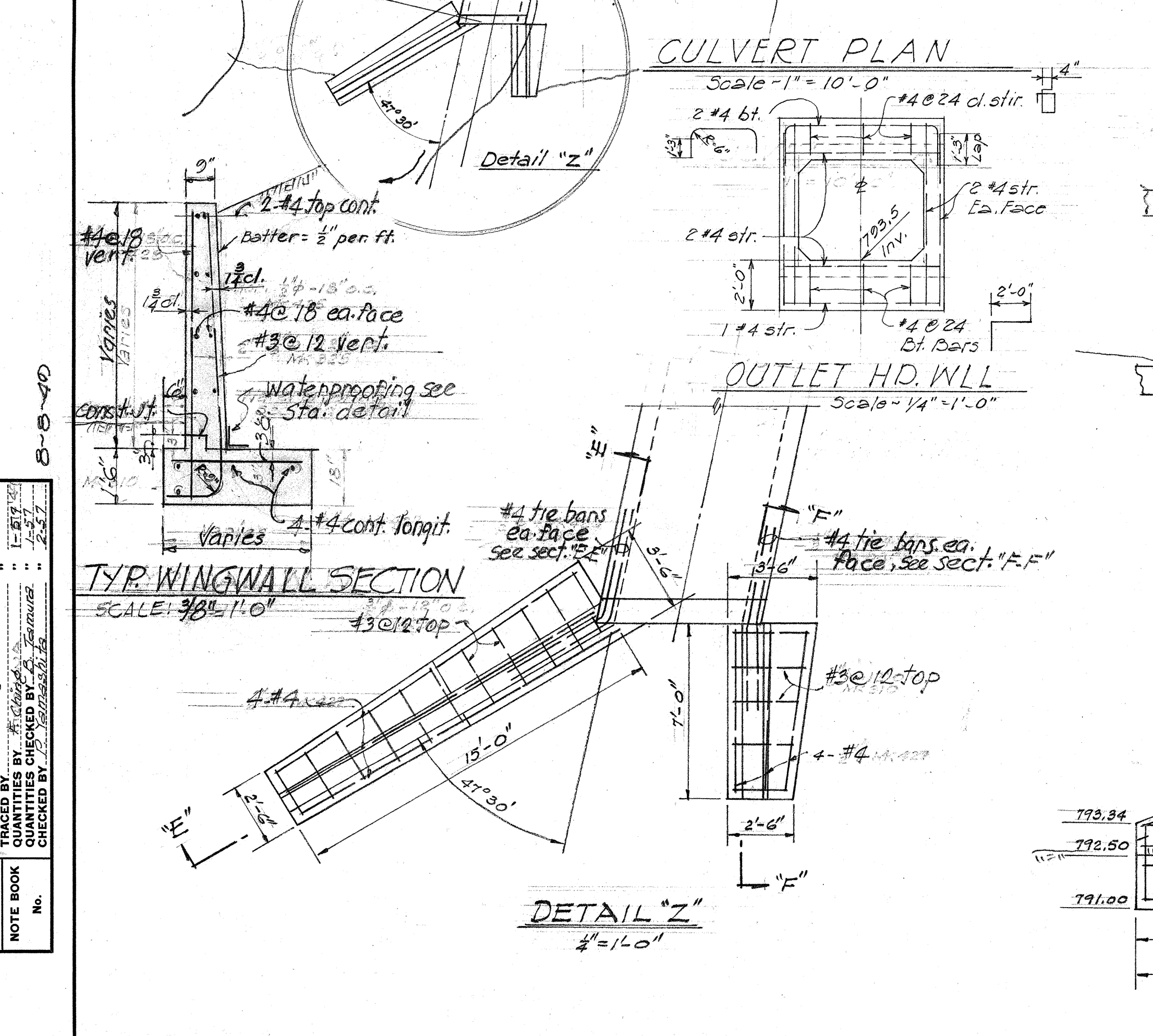
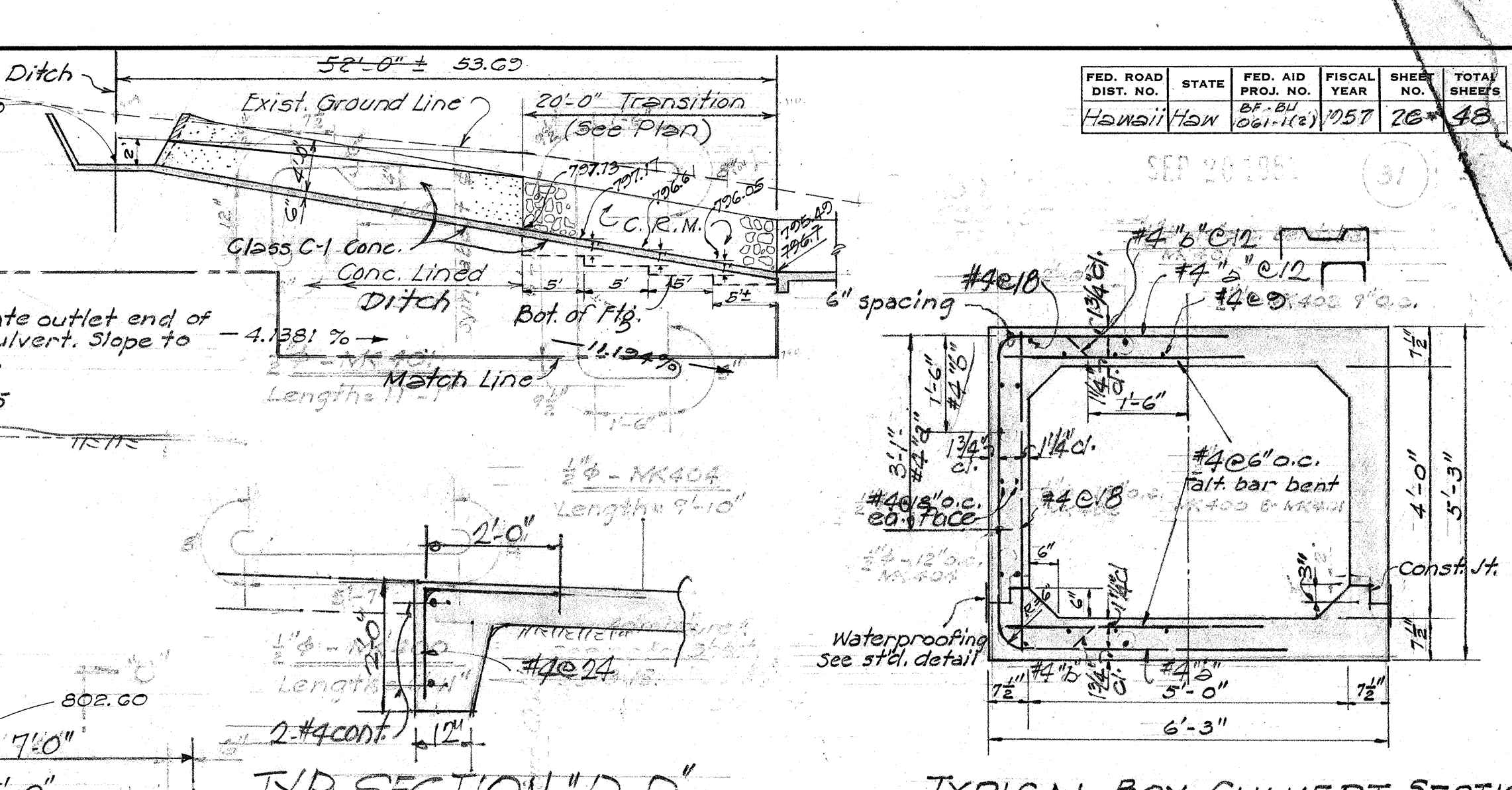
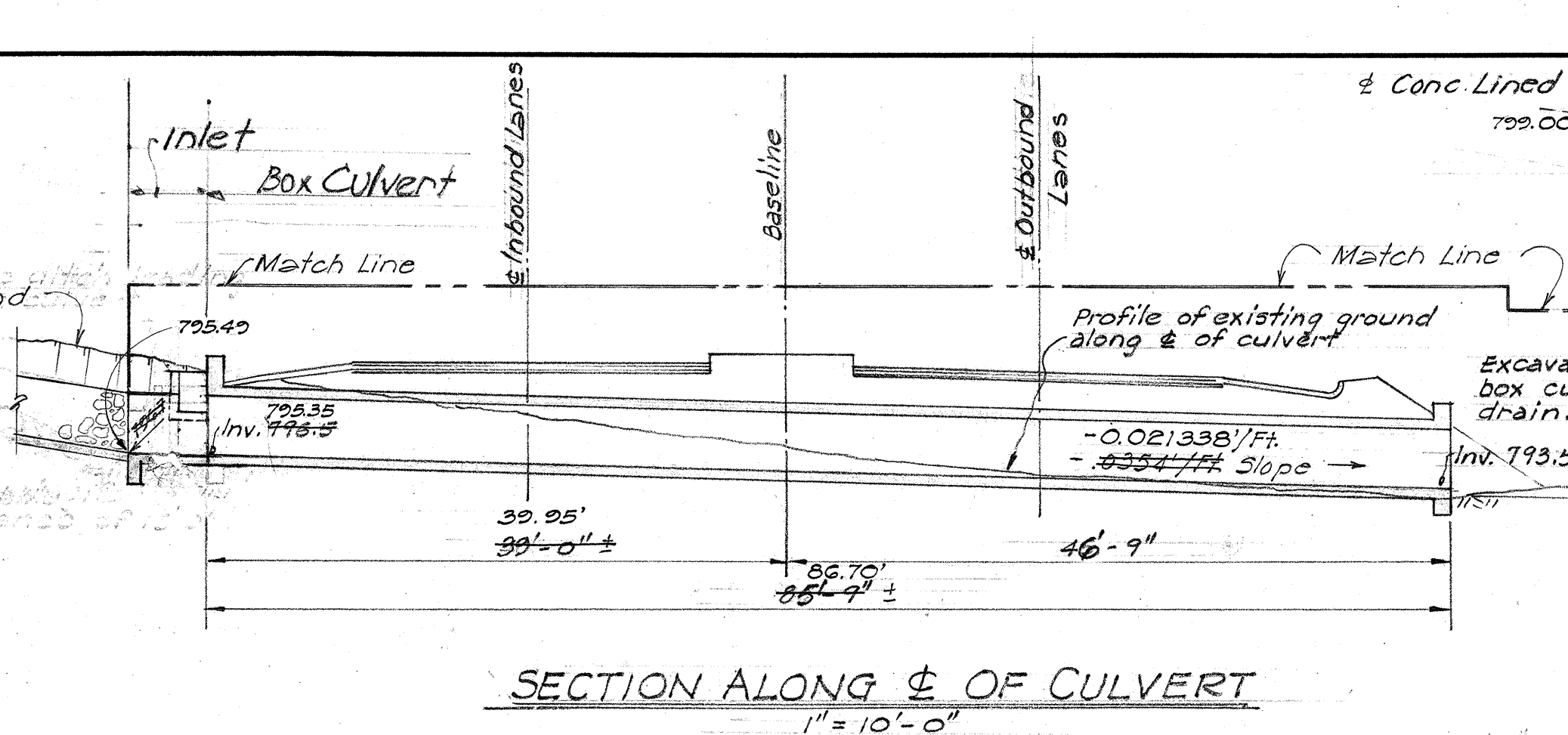
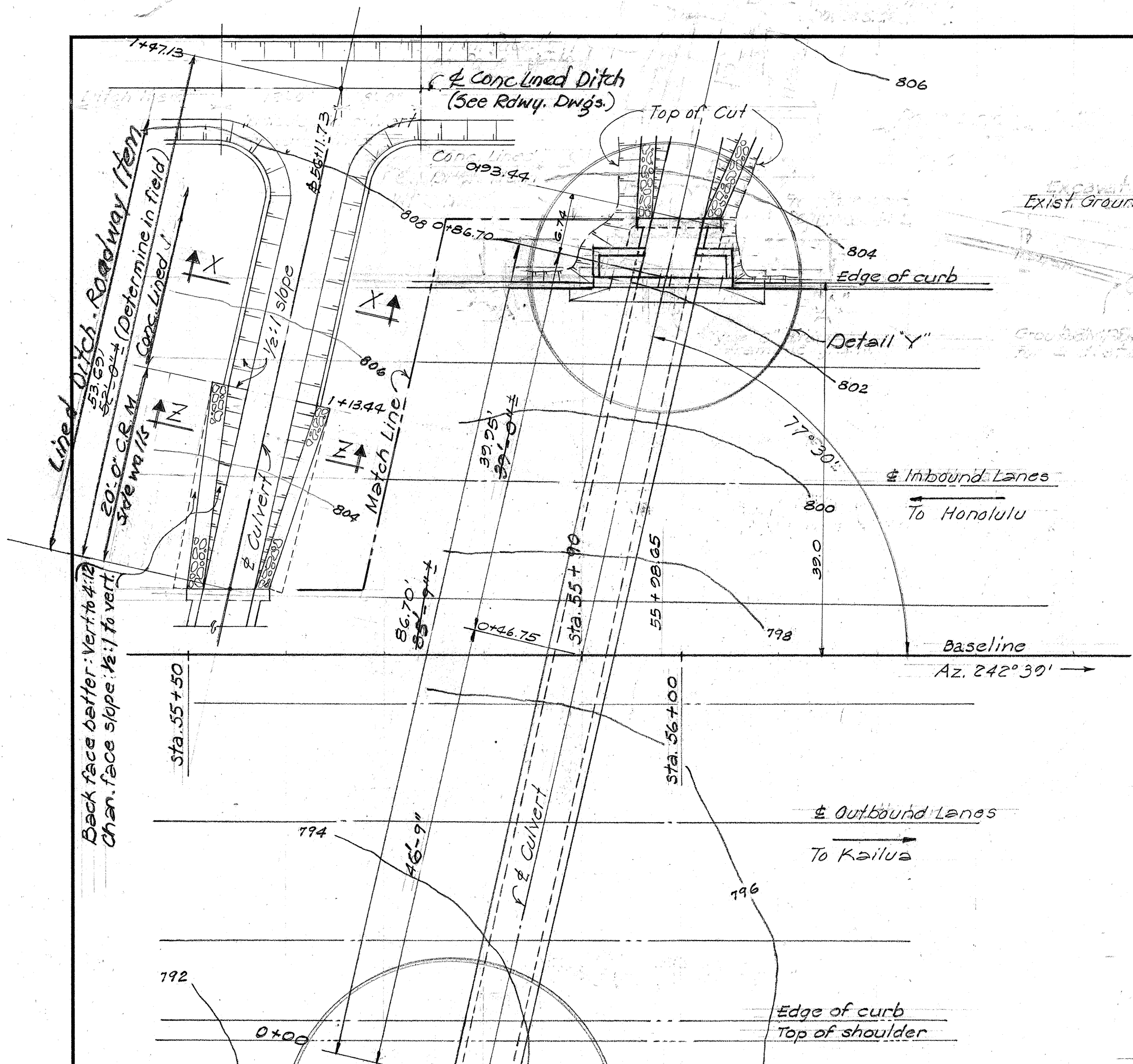
ELEV. B-B OUTLET
Scale - 1/4" = 1'-0"

SECTION D-D
Scale - 1/4" = 1'-0"

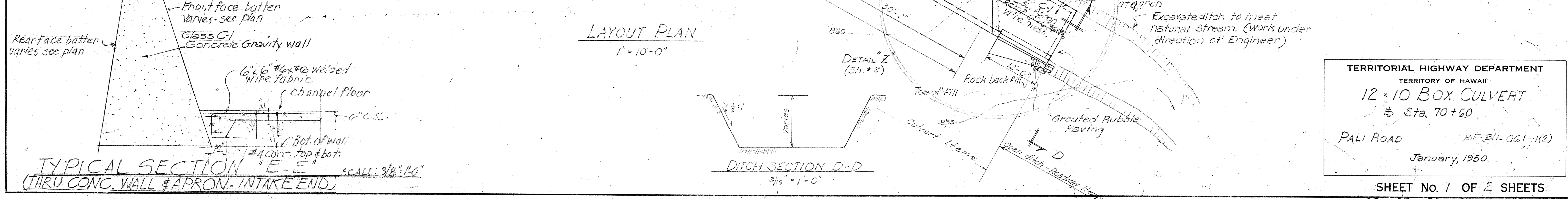
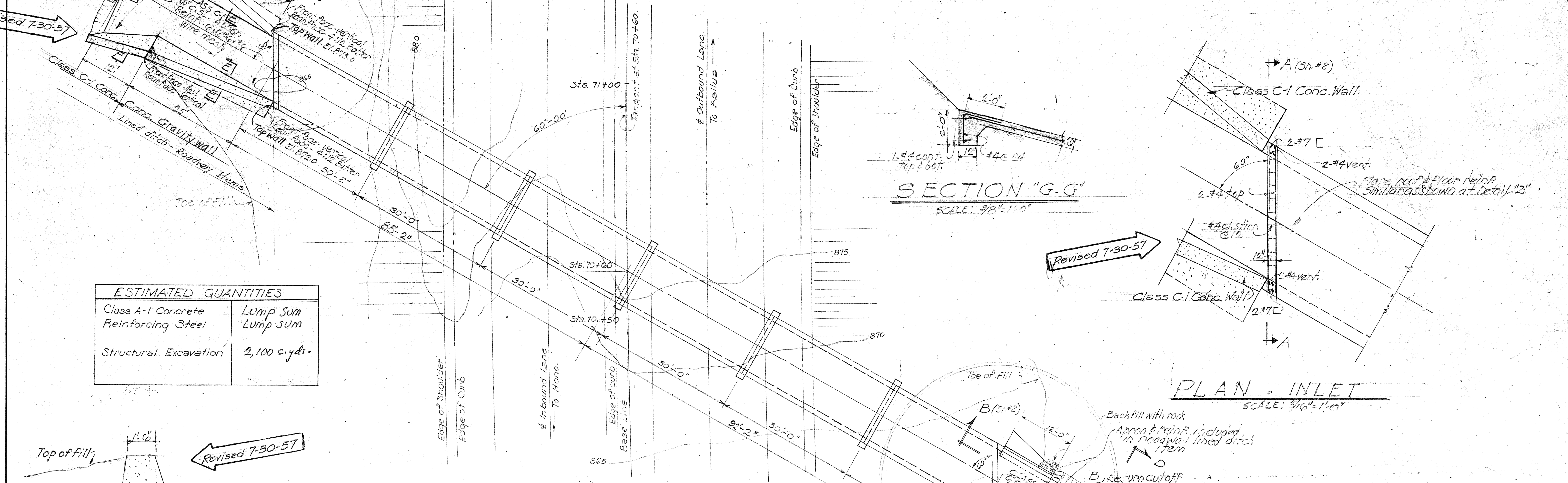
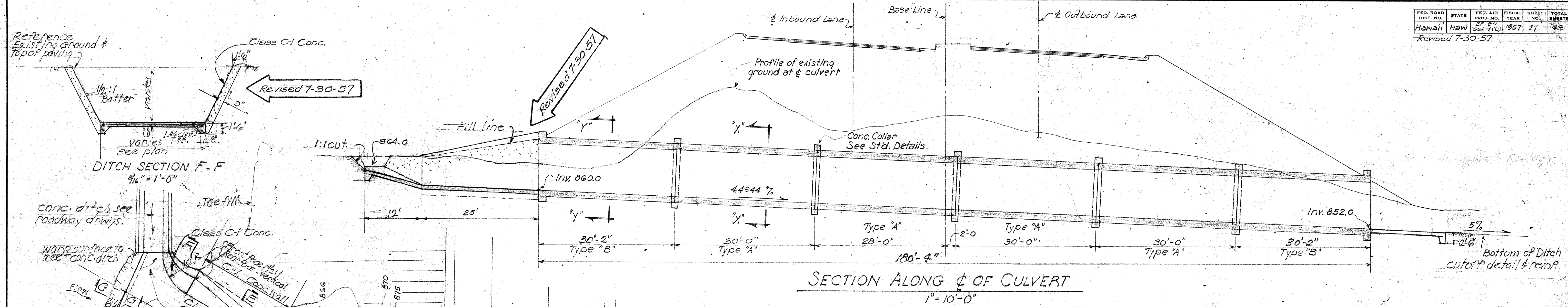
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

10'-0" X 10'-0" BOX CULVERT
Sta. 42+72

PALI RD. PROJ. BF-BU-061-1(2)
December 1956

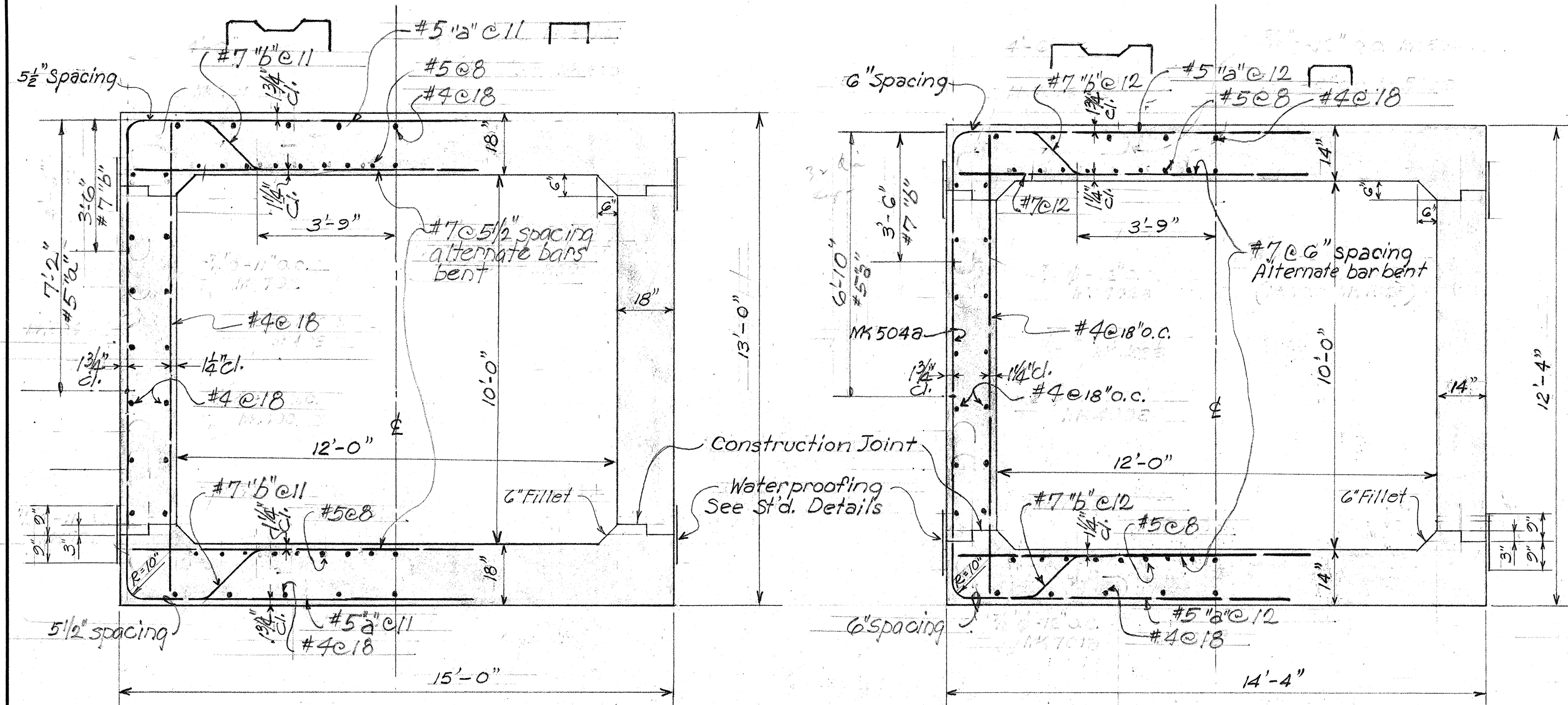


DATE: 1-27-57
DESIGNED BY: F. Chang
DRAWN BY: F. Chang
CHECKED BY: F. Chang
NOTED BY: F. Chang



ESTIMATED QUANTITIES	
Class A-1 Concrete	Lump Sum
Reinforcing Steel	Lump Sum
Structural Excavation	2,100 c.yds.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
12 x 10 BOX CULVERT
Sta. 70+60
PALI ROAD BF-BU-061-1(2)
January, 1950

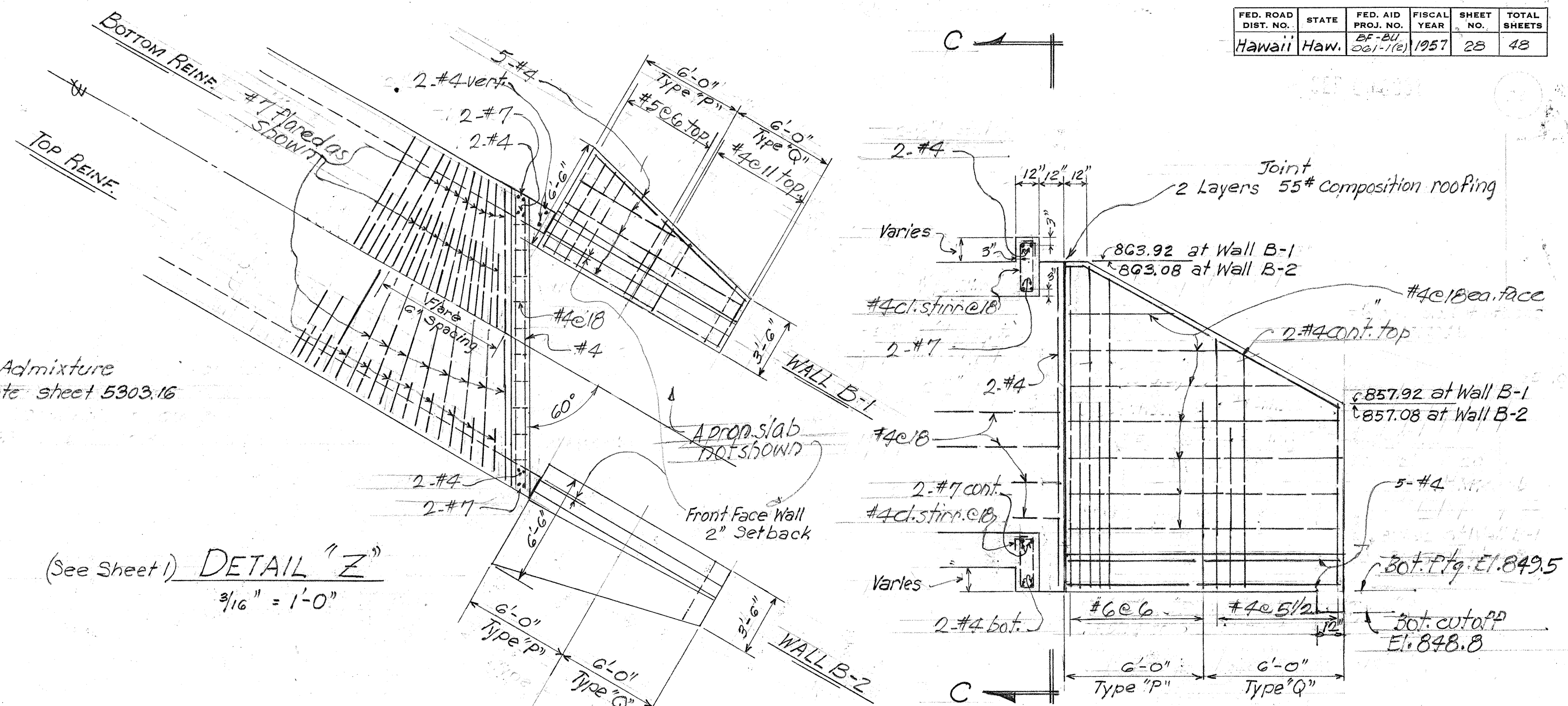


SECTION "X-X" (See Sheet 1)
TYPE "A" CULVERT
(Not to Scale)

SECTION "Y-Y" (See Sheet 1)
TYPE "B" CULVERT
(Not to Scale)

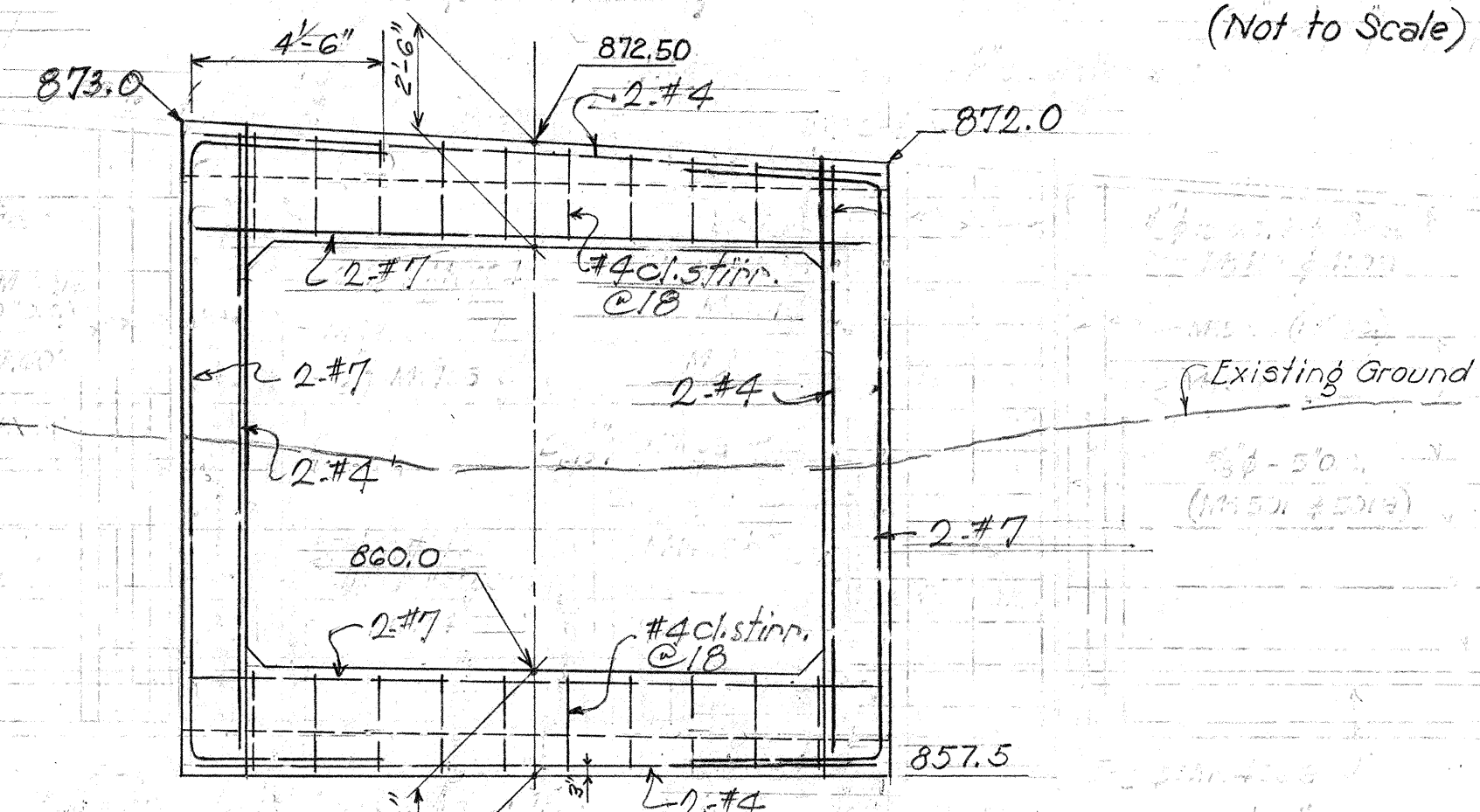
Note: Admixture
See note sheet 5303.16

(See Sheet 1) DETAIL "Z"
3/16" = 1'-0"

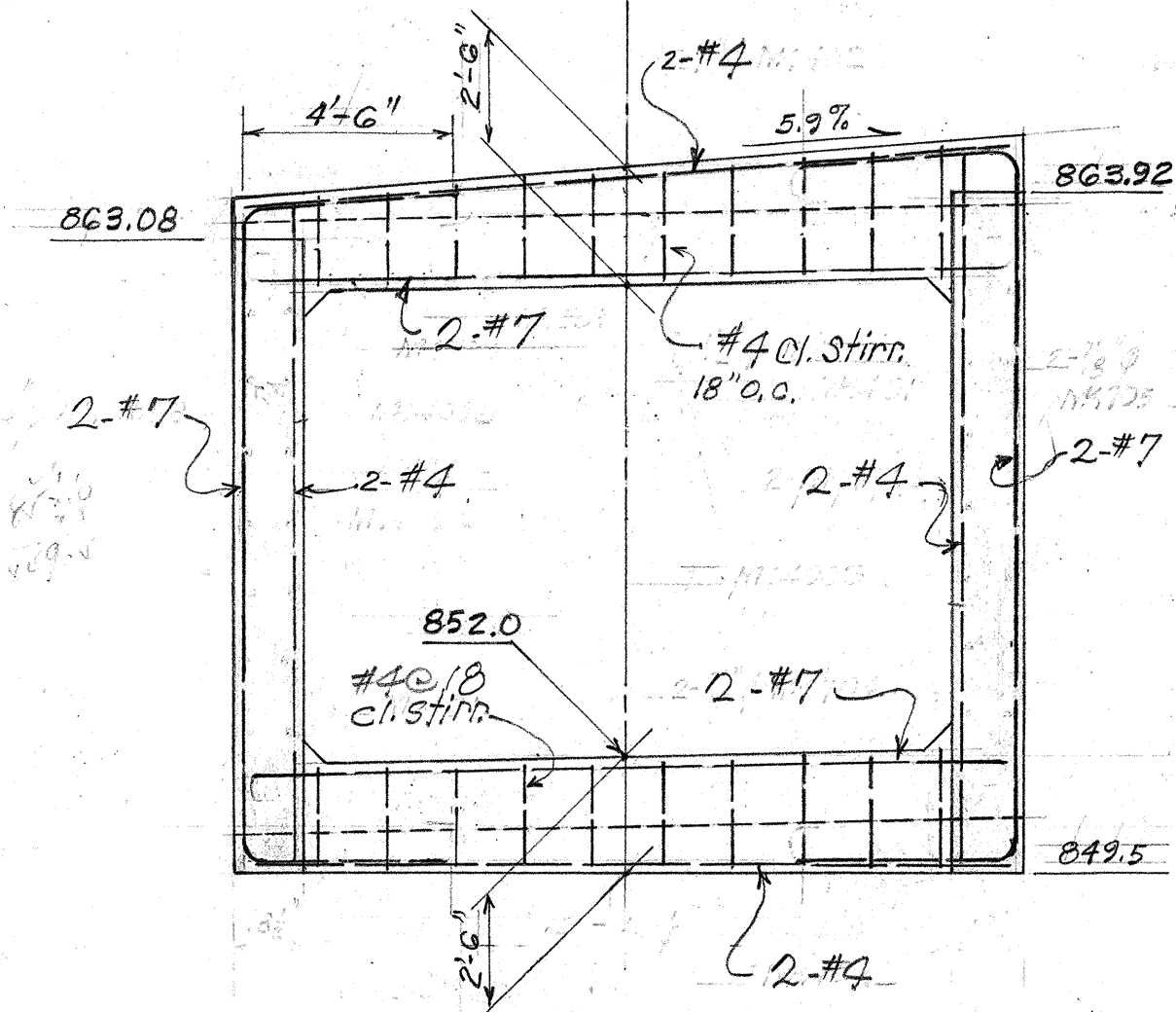


ELEVATION B-B (See Sheet 1)
1/4" = 1'-0"

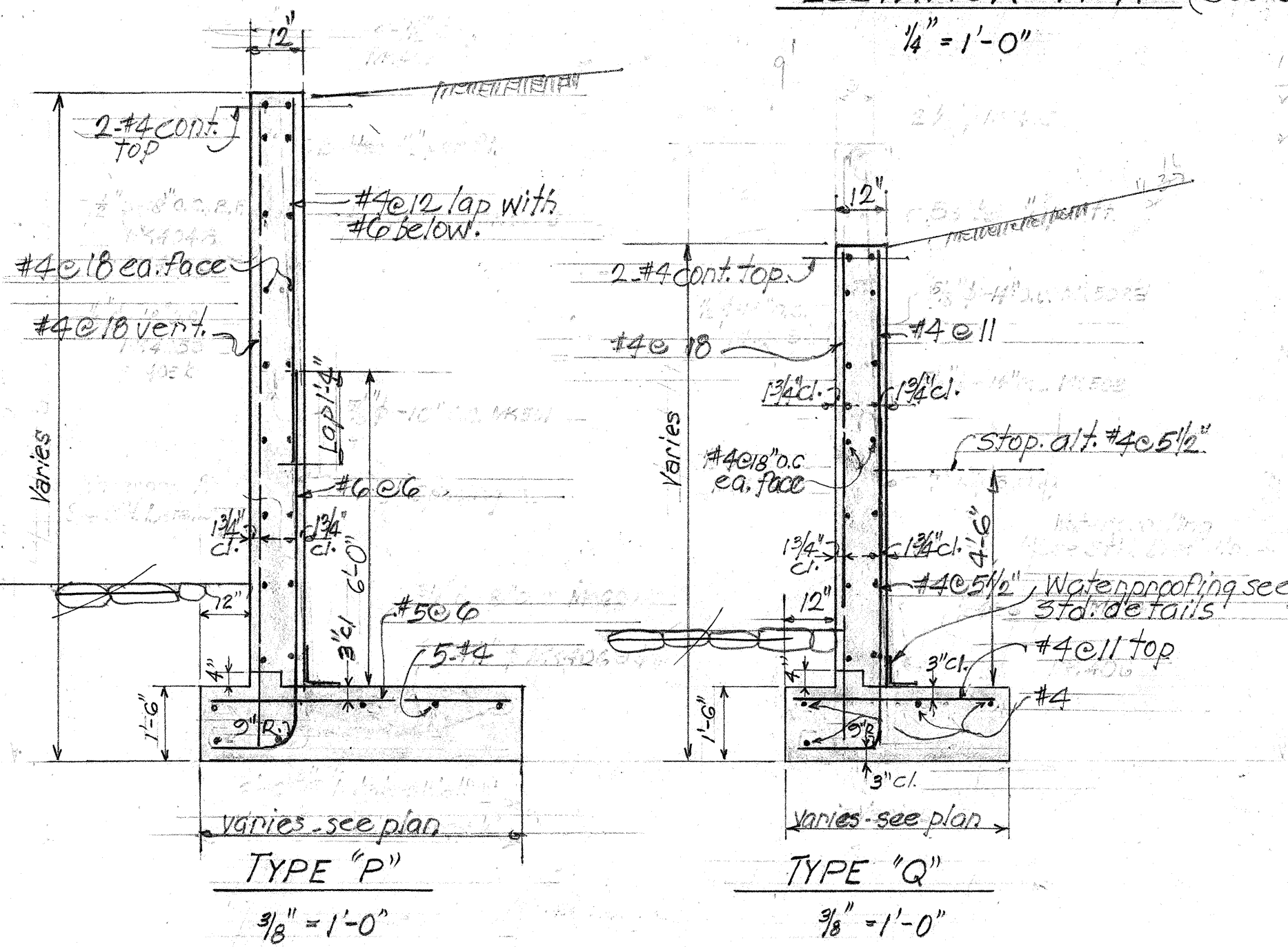
NOTE: Wall B-1 Similar to Wall B-2



ELEVATION A-A (See Sheet 1)
1/4" = 1'-0"



SECTION C-C
1/4" = 1'-0"



TYPE "P"
3/8" = 1'-0"

TYPE "Q"
3/8" = 1'-0"

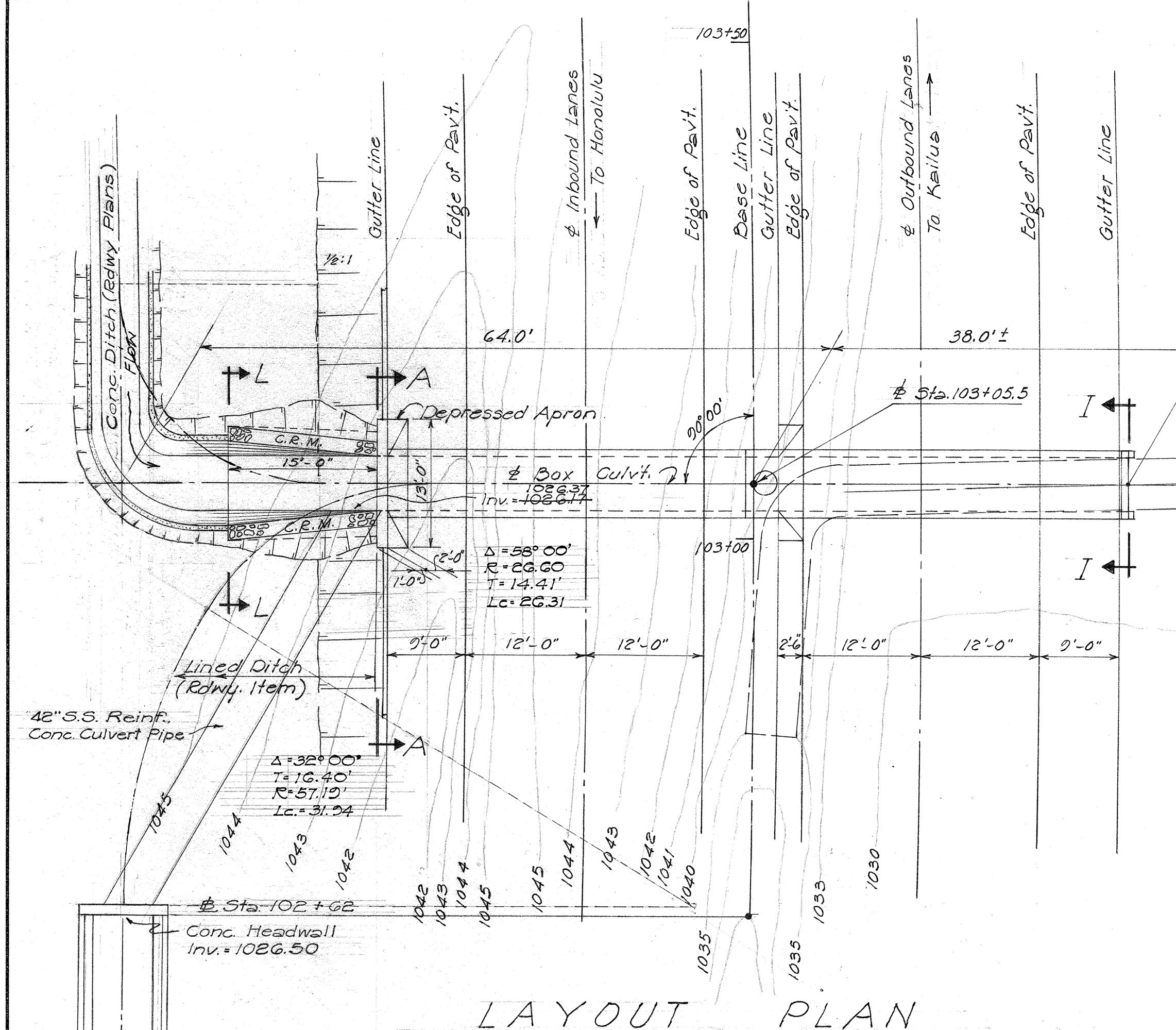
DATE: 1/57
DESIGNED BY: F. Ching
CHECKED BY: F. Ching
NOTE: See plan for quantities.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

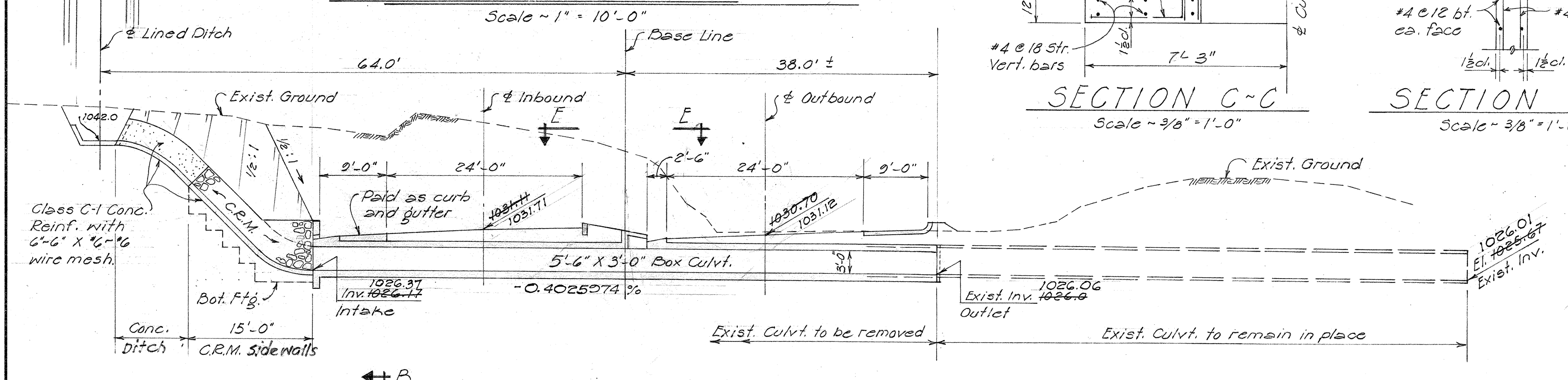
12x10 BOX CULVERT
Sta. 70+60.

PALI ROAD BF-BU-061-1(2)
January, 1950

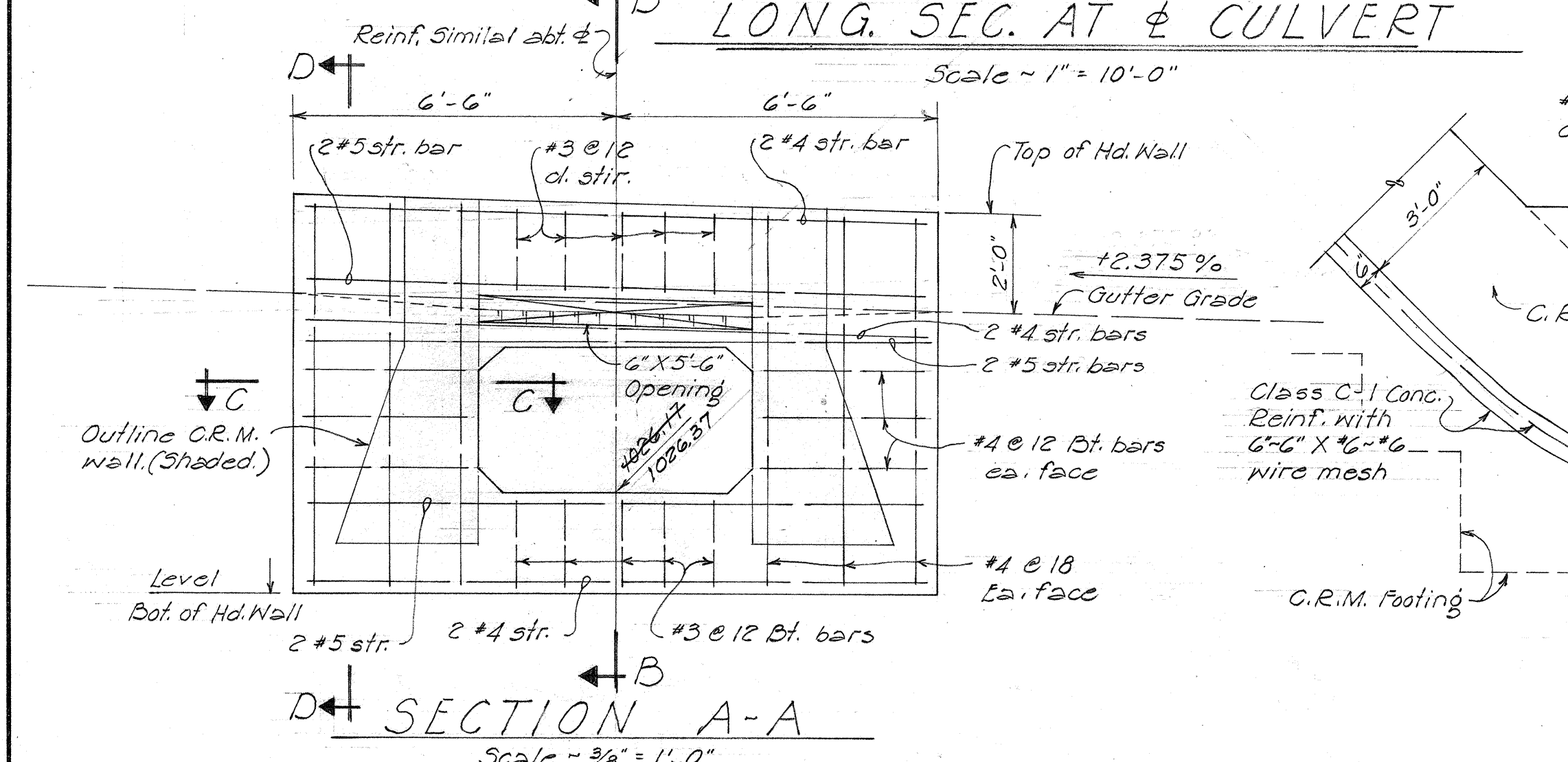
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	BF-BU-061-1(2)	1957	20	48



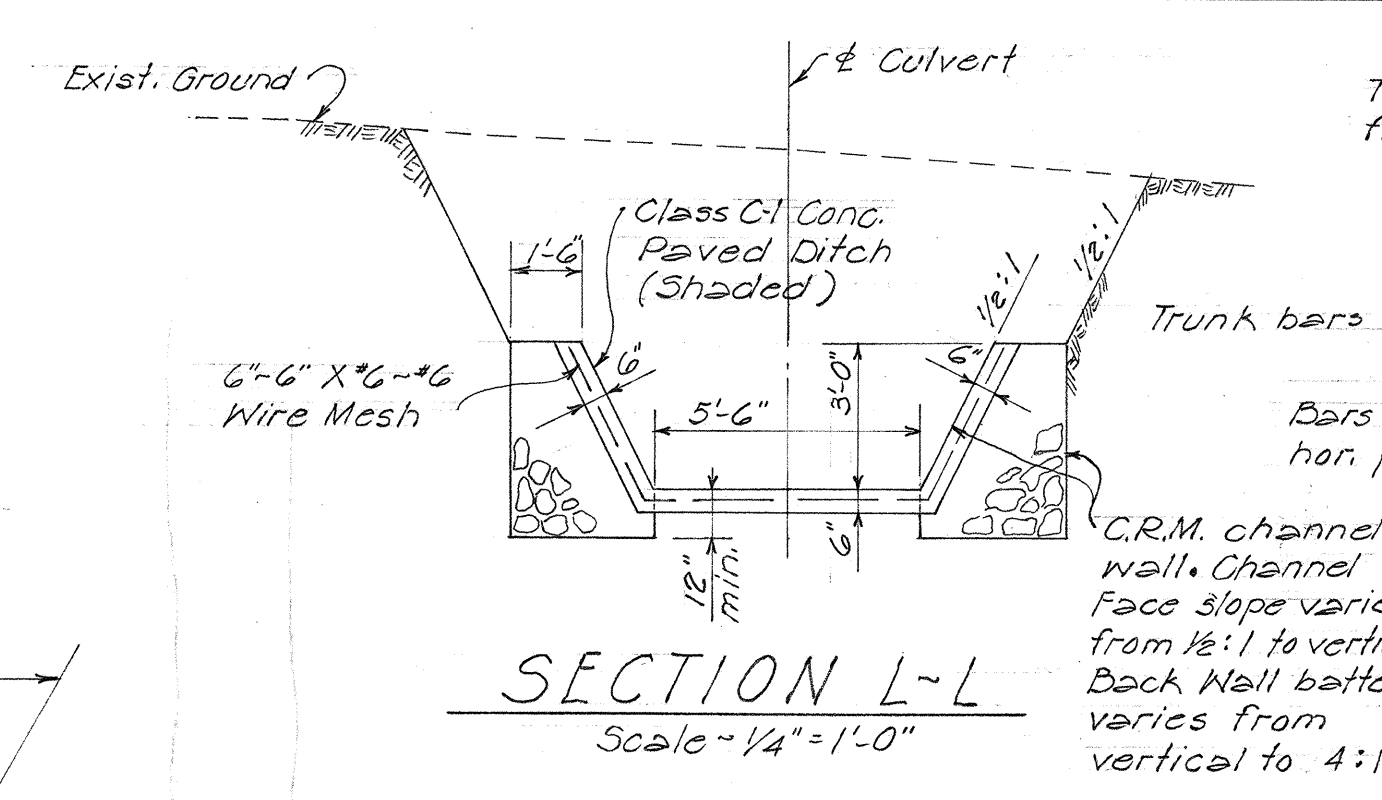
LAYOUT PLAN
Scale - 1" = 10'-0"



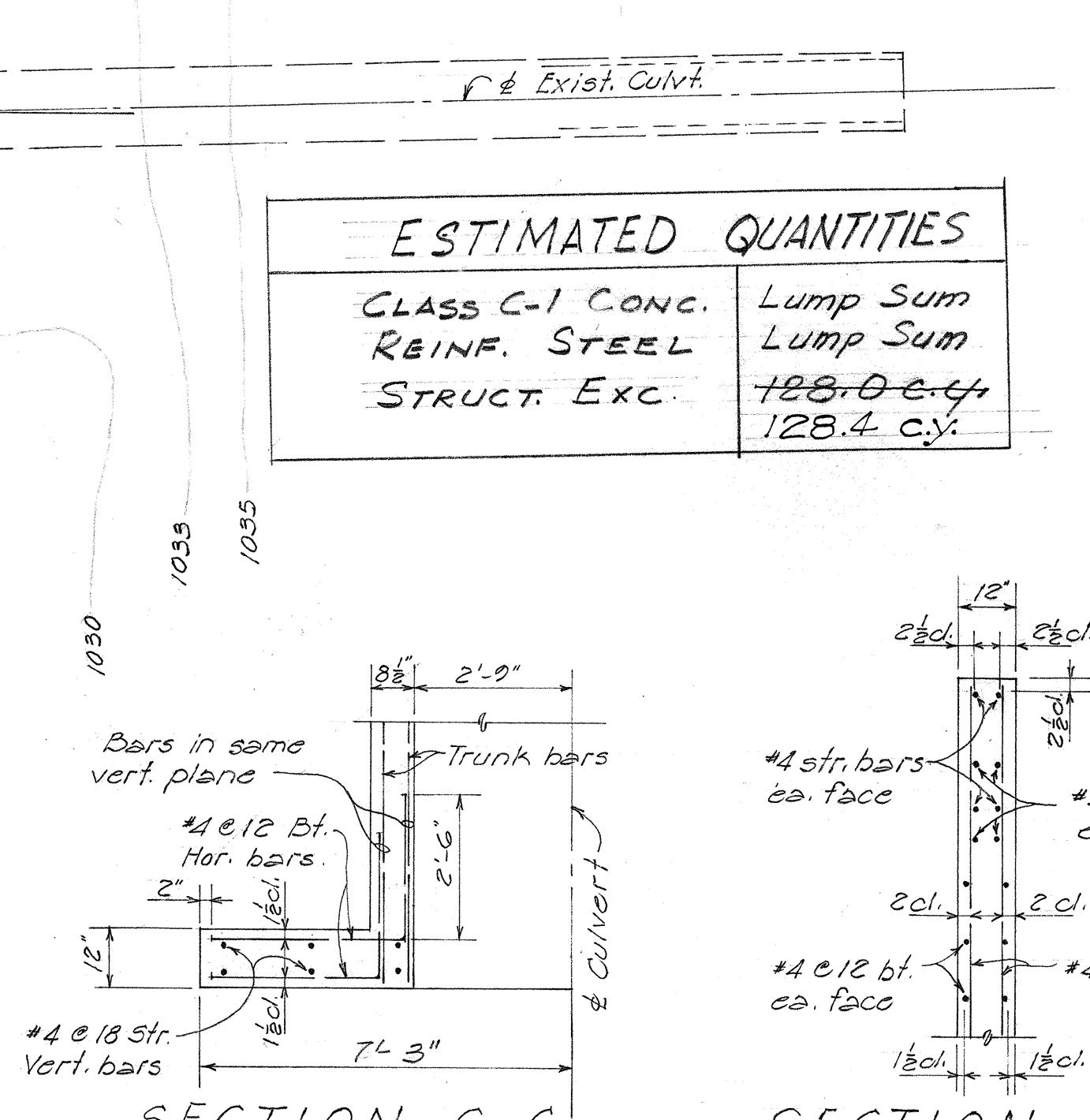
LONG. SEC. AT & CULVERT
Scale - 1" = 10'-0"



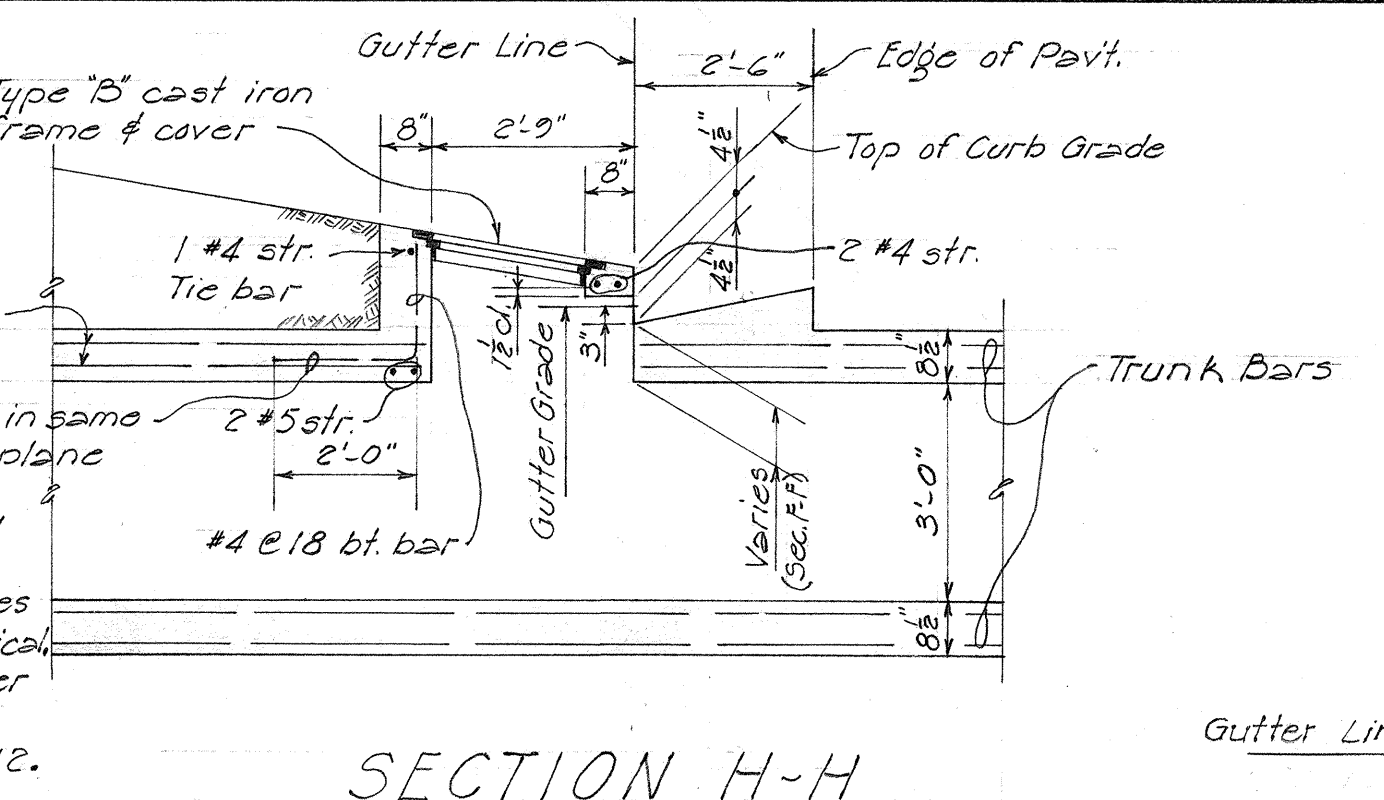
SECTION A-A
Scale - 3/8" = 1'-0"



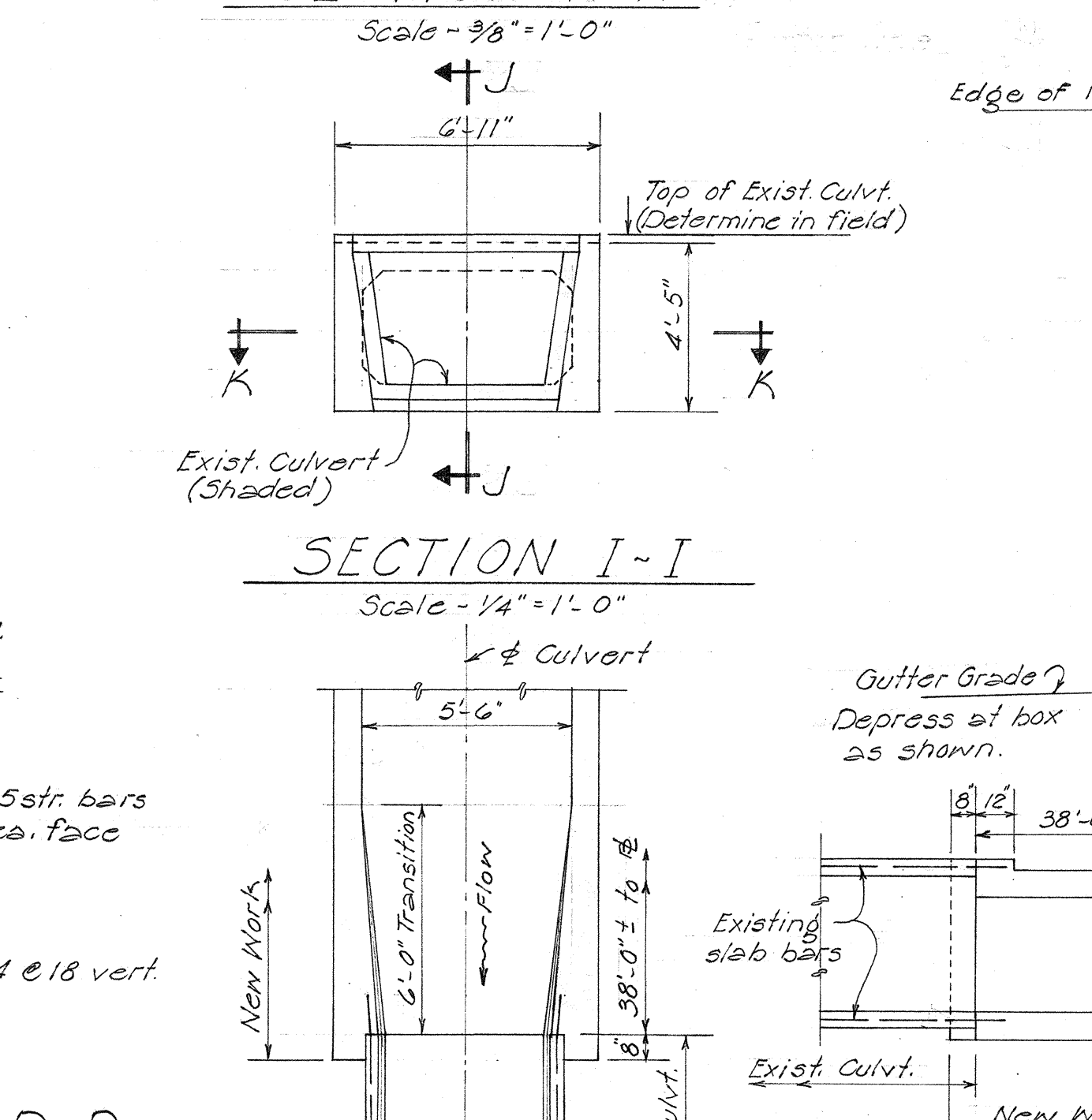
SECTION L-L
Scale - 1/4" = 1'-0"



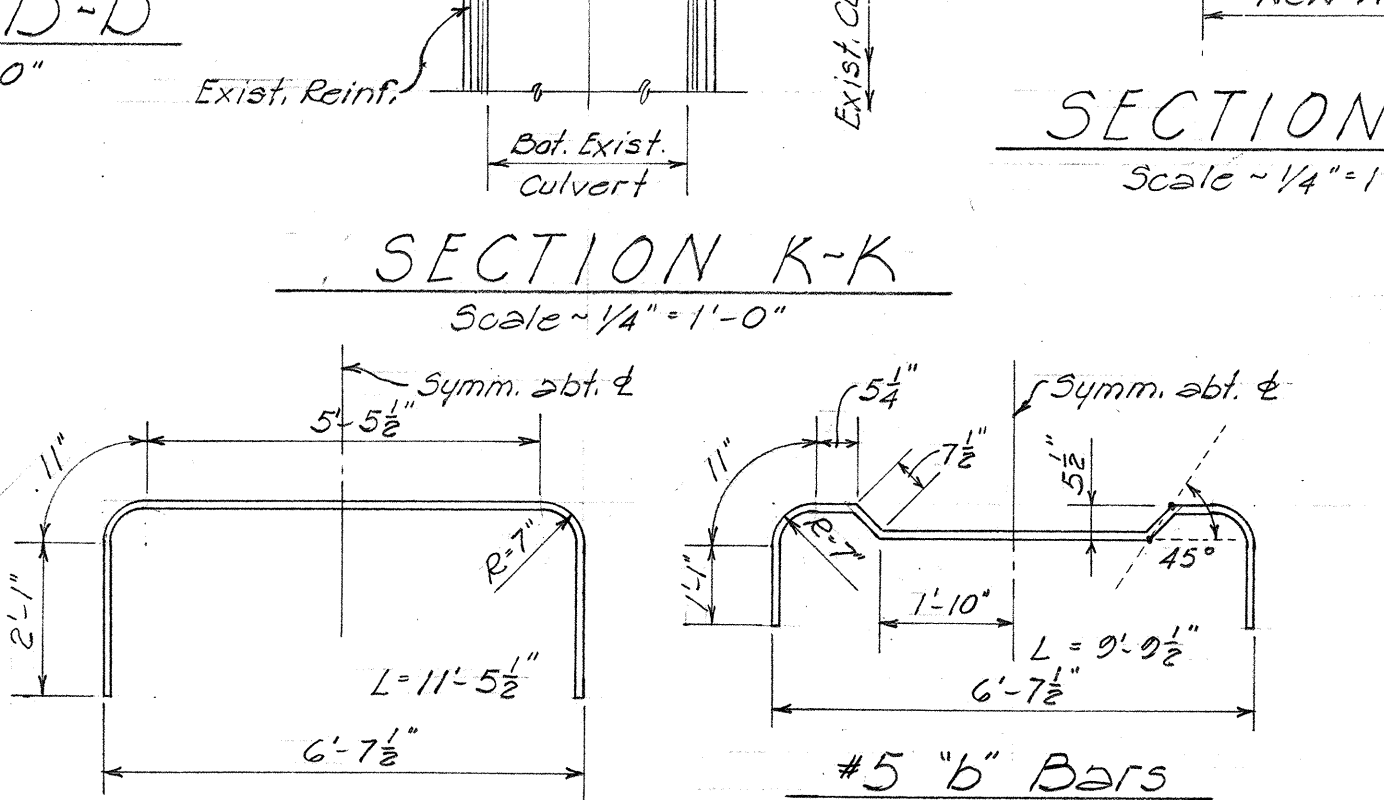
SECTION C-C
Scale - 3/8" = 1'-0"



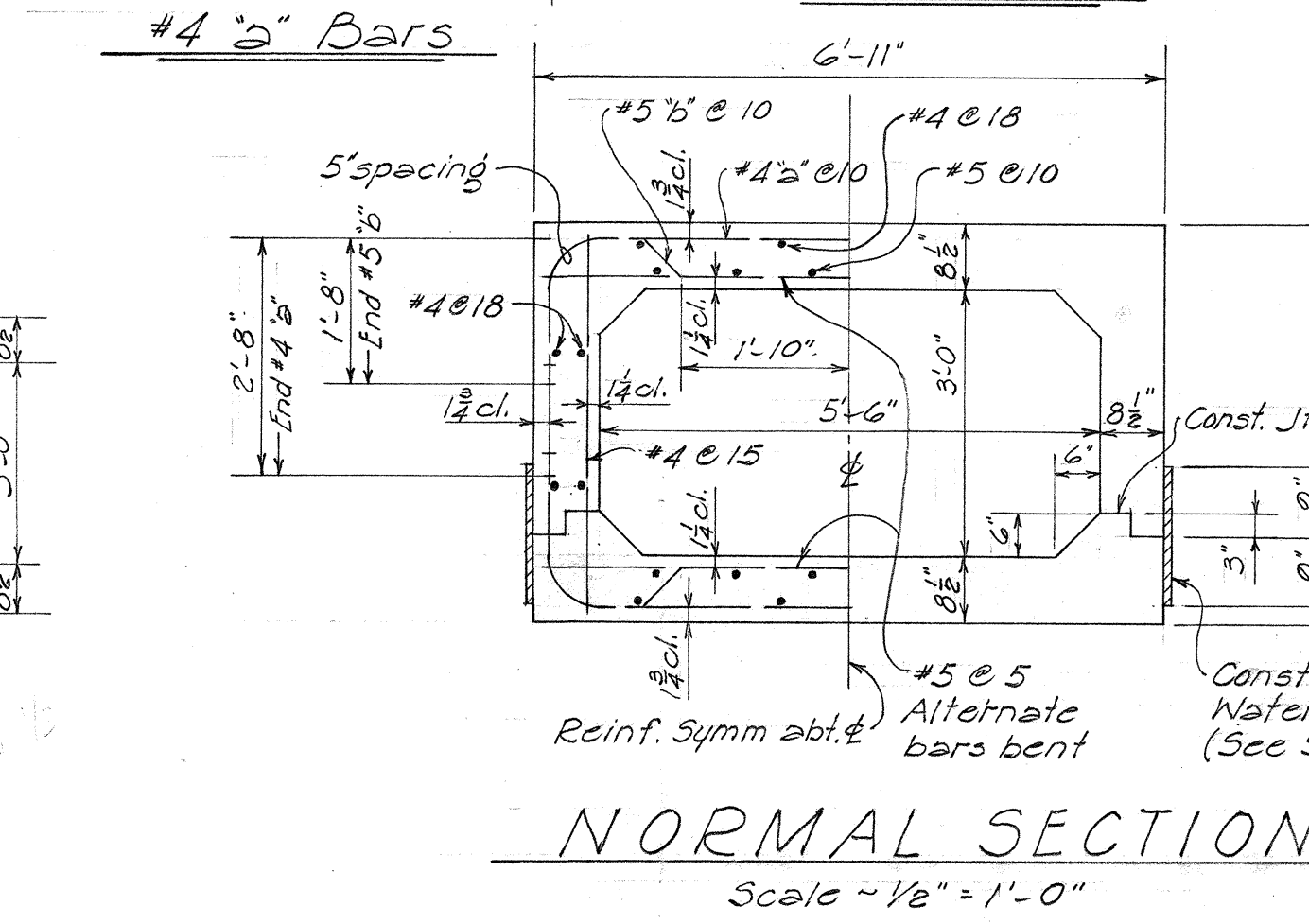
SECTION H-H
Scale - 3/8" = 1'-0"



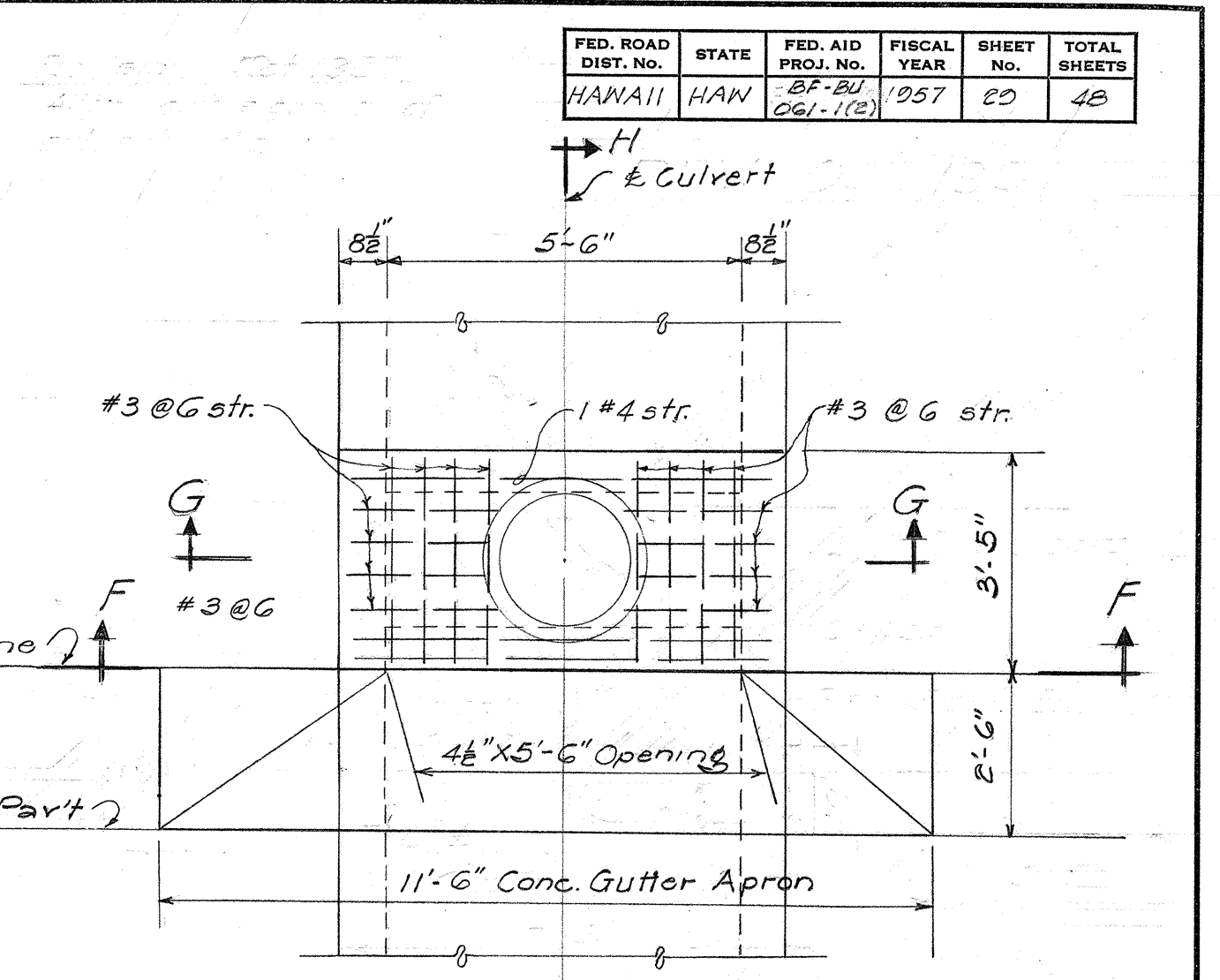
SECTION I-I
Scale - 1/4" = 1'-0"



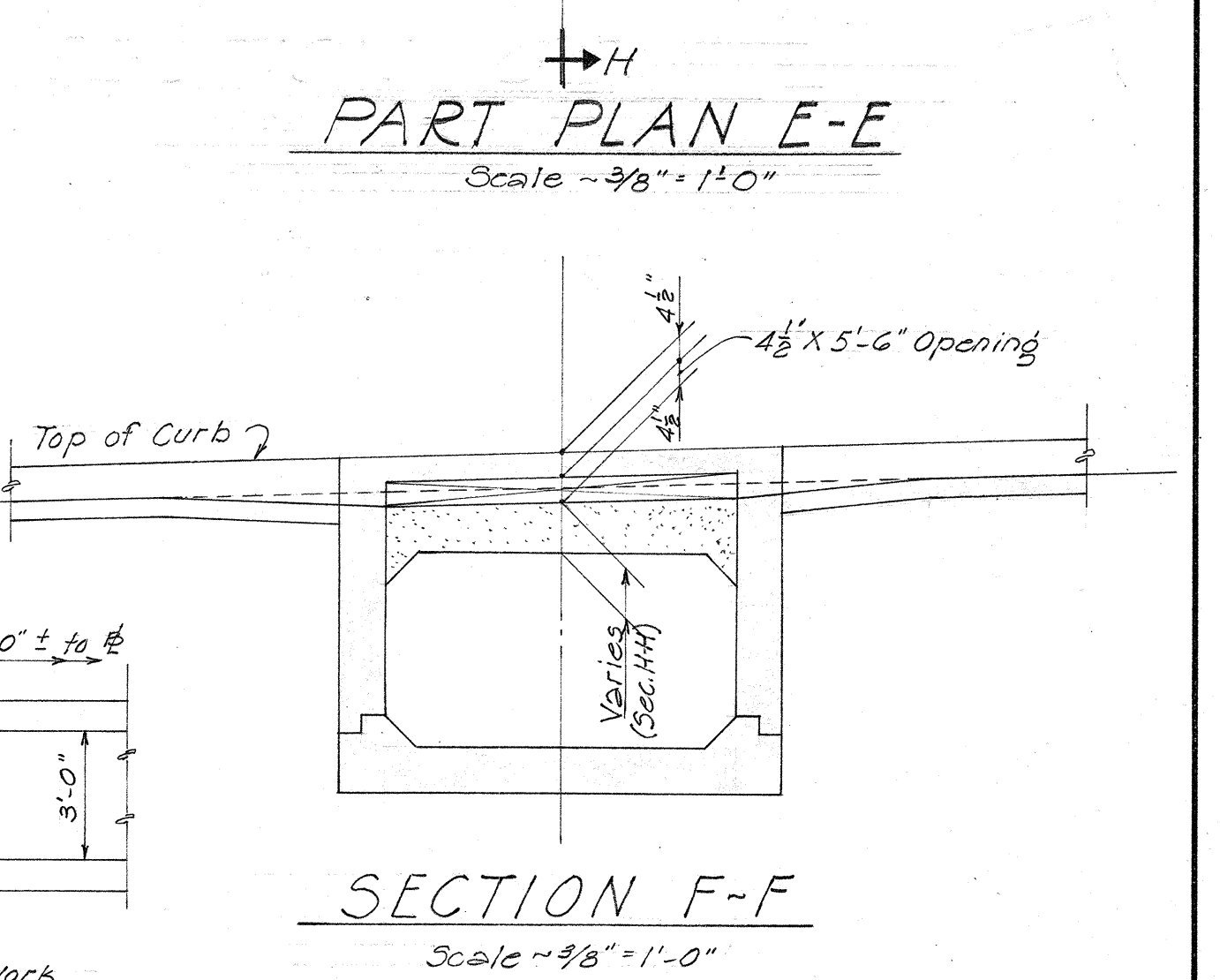
SECTION D-D
Scale - 3/8" = 1'-0"



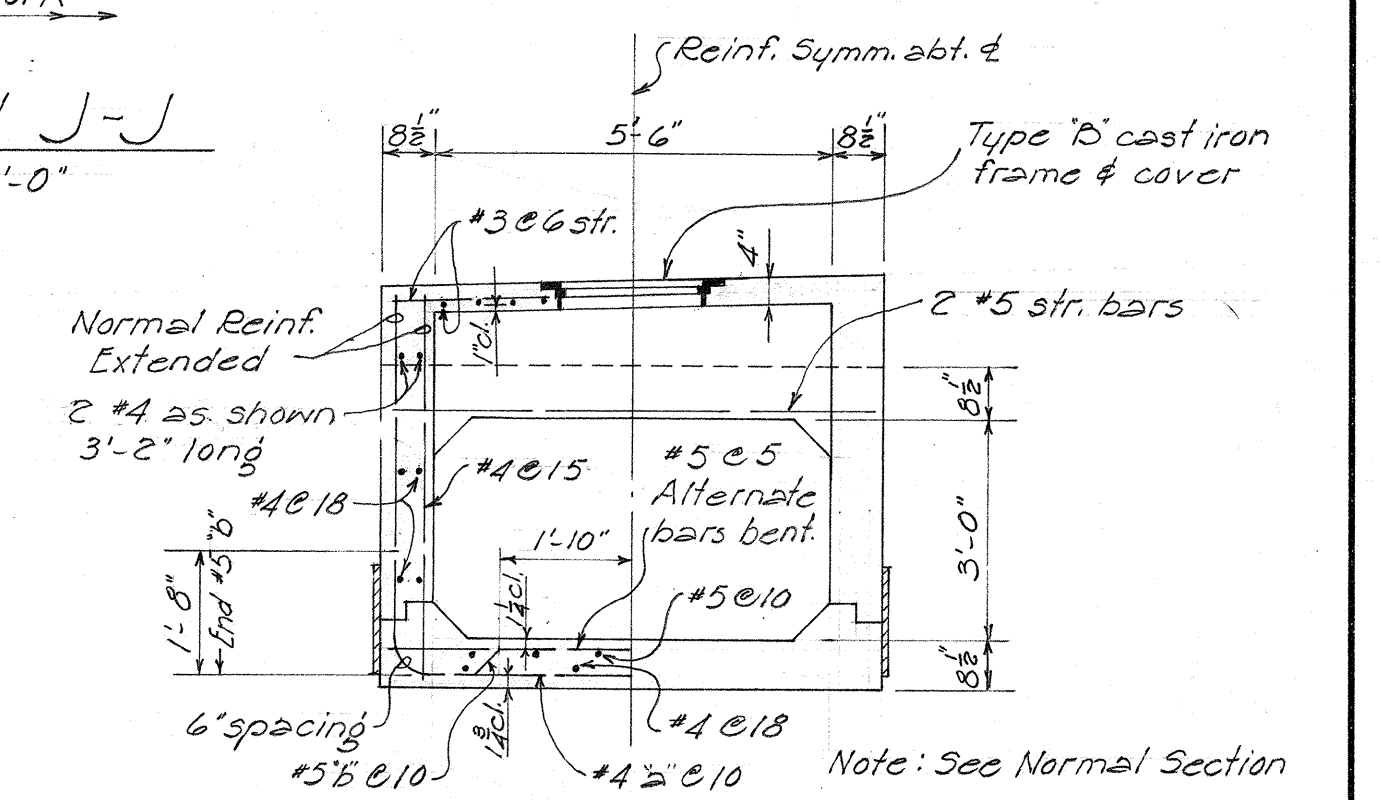
NORMAL SECTION
Scale - 1/8" = 1'-0"



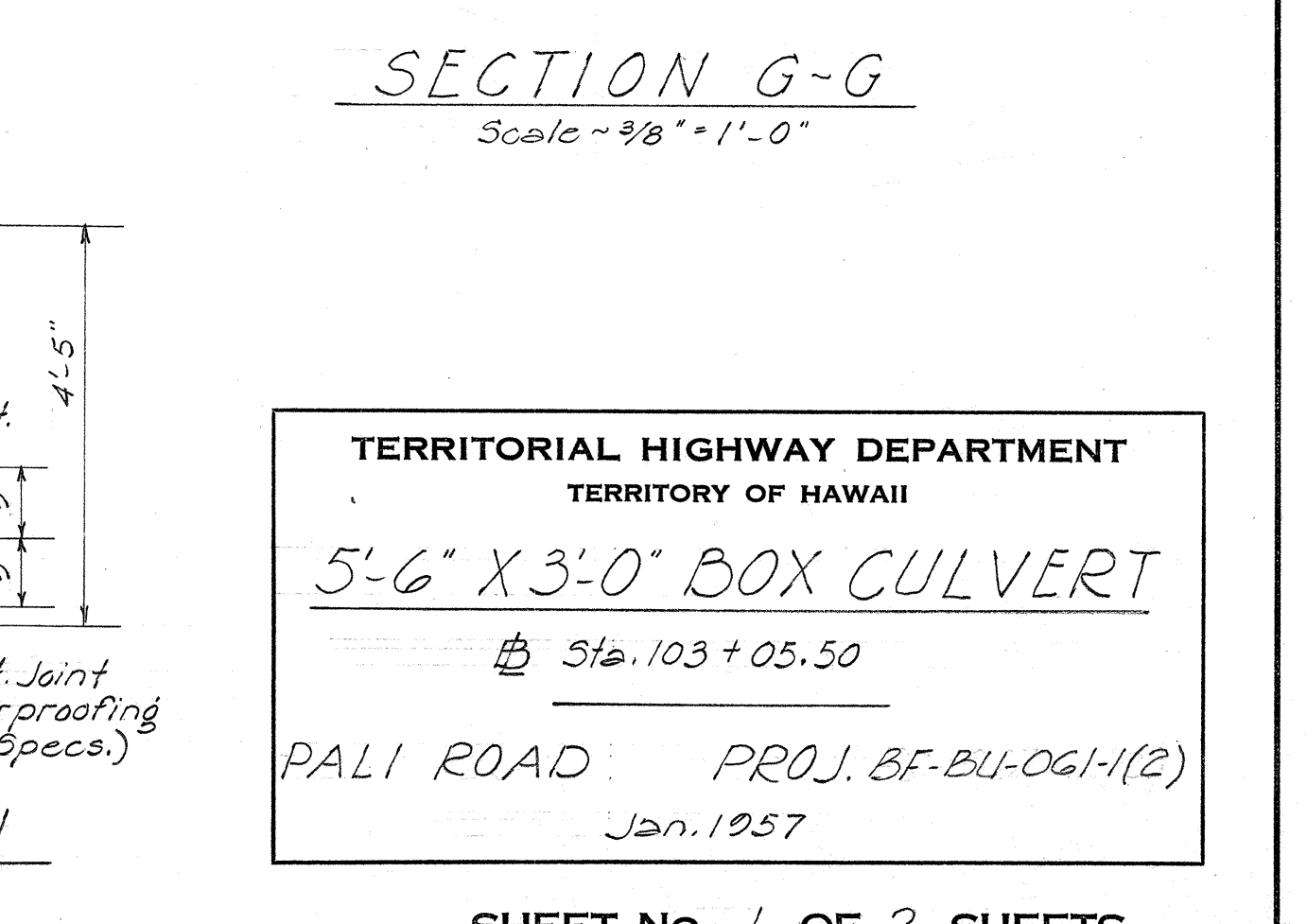
PART PLAN E-E
Scale - 3/8" = 1'-0"



SECTION F-F
Scale - 3/8" = 1'-0"



SECTION J-J
Scale - 1/4" = 1'-0"



SECTION G-G
Scale - 3/8" = 1'-0"

ESTIMATED QUANTITIES	
CLASS C-1 CONC.	Lump Sum
REINF. STEEL	Lump Sum
STRUCT. EXC.	188.0 c.y.
	128.4 c.y.

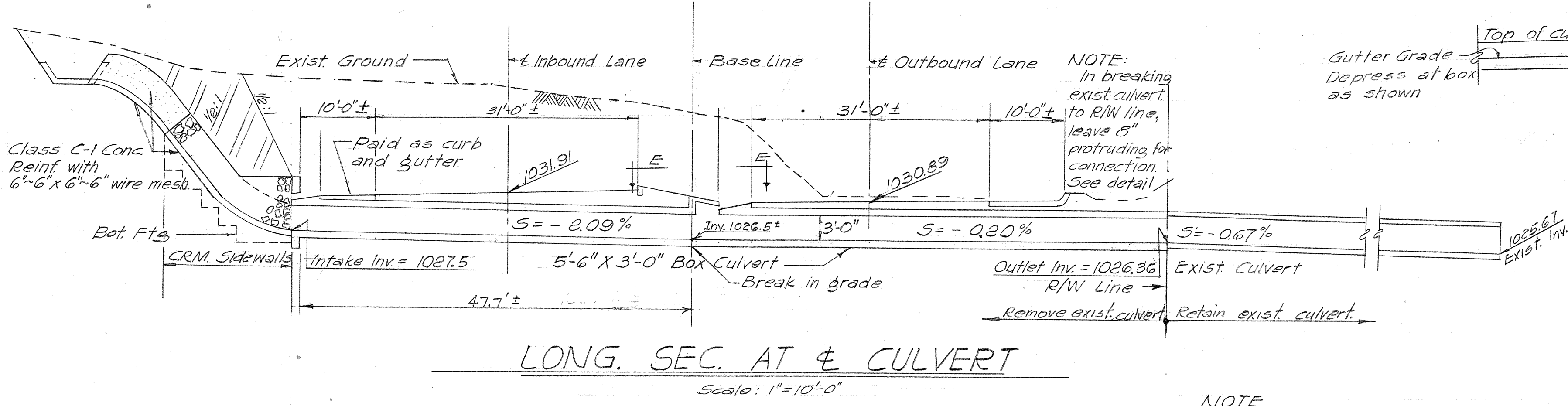
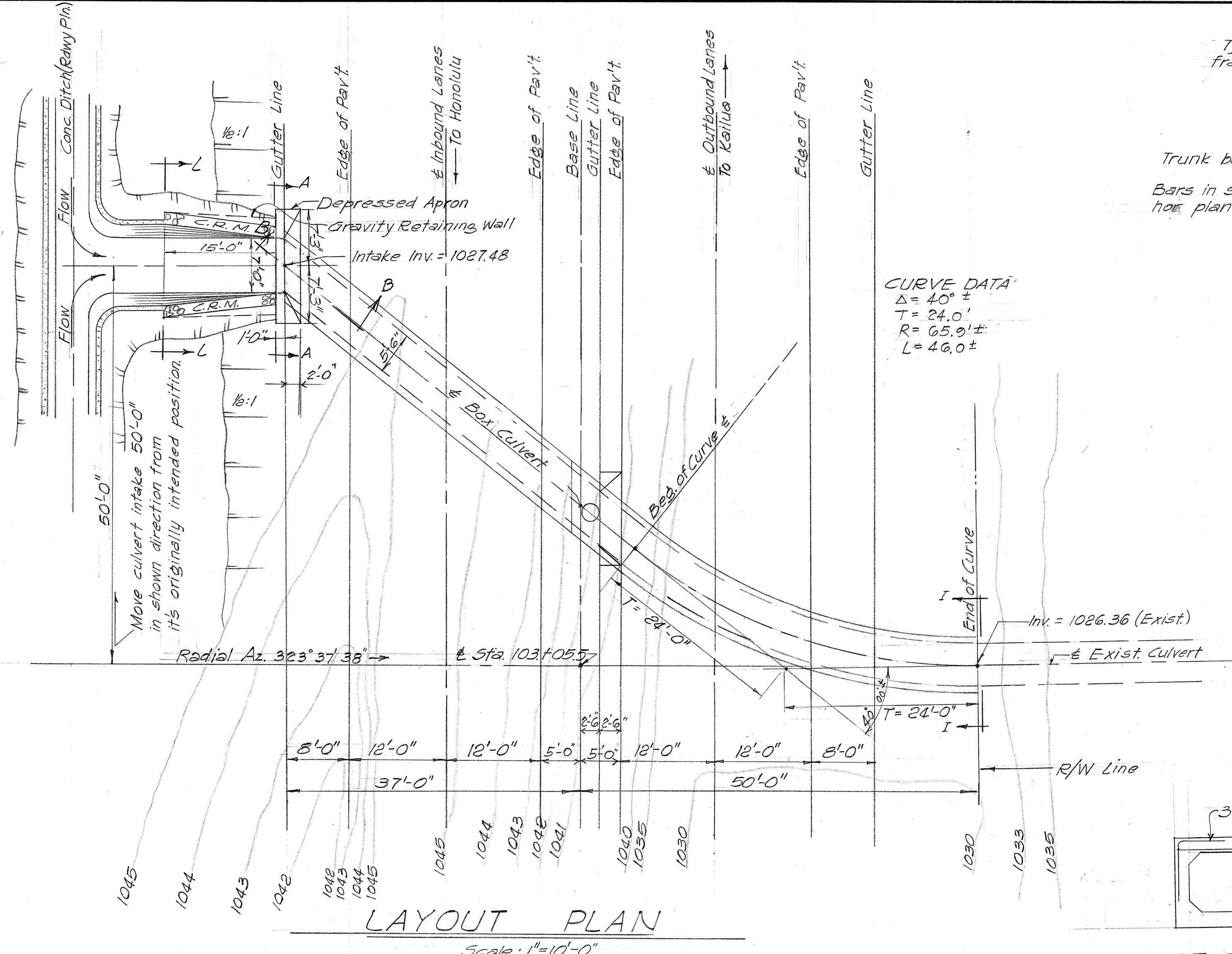
SURVEY BY	DATE
DESIGNED BY	1-57
DRAWN BY	1-57
CHECKED BY	1-57
NOTED BY	1-57
QUANTITIES CHECKED BY	1-57
NOTE BOOK	1-57
No.	1-57

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

5'-6" X 3'-0" BOX CULVERT

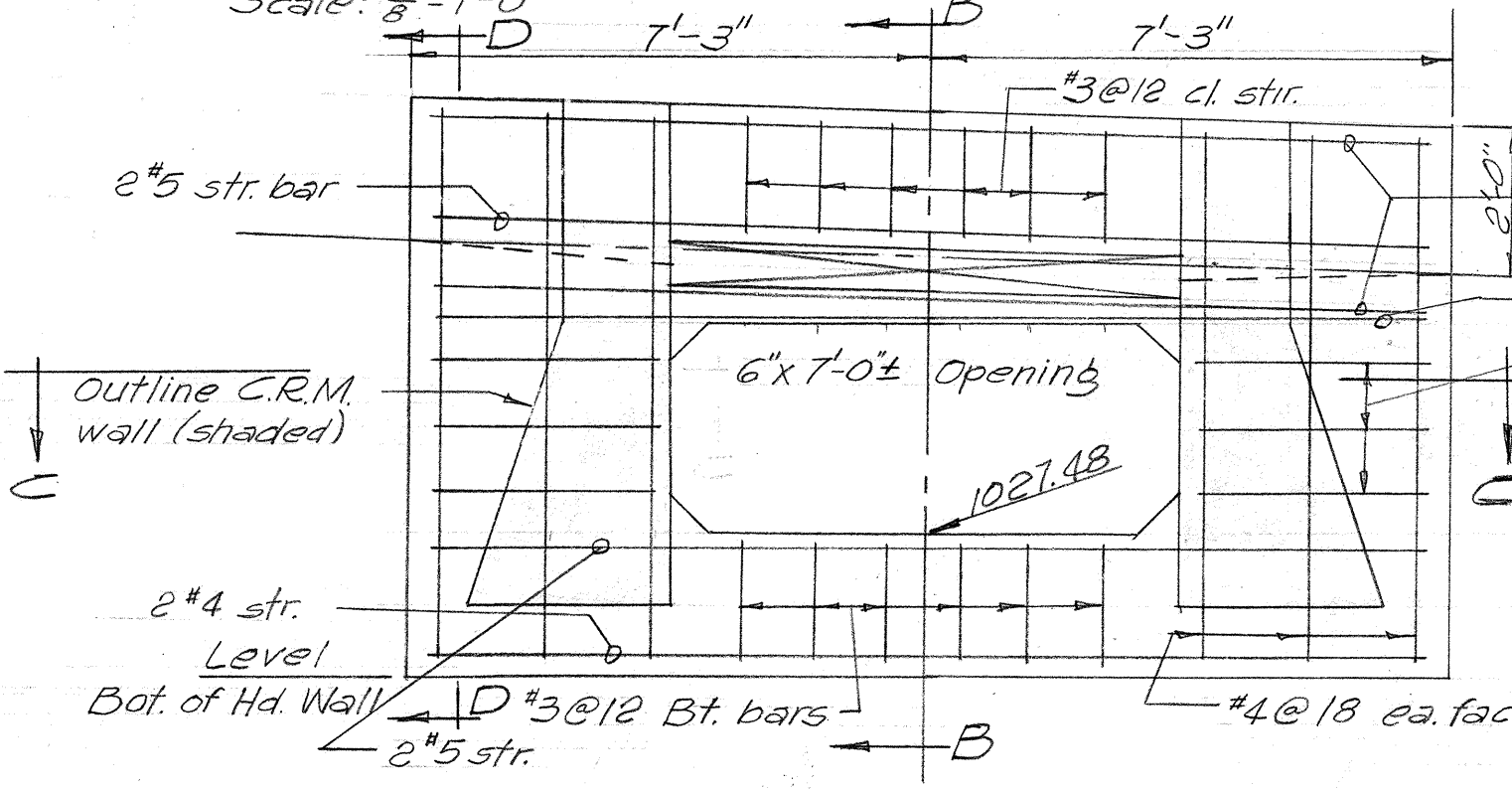
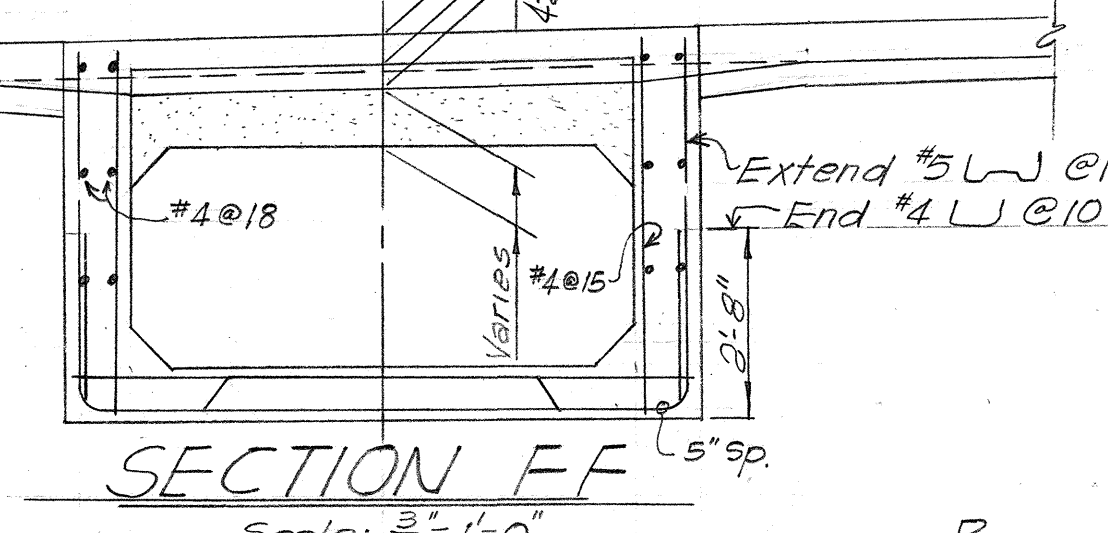
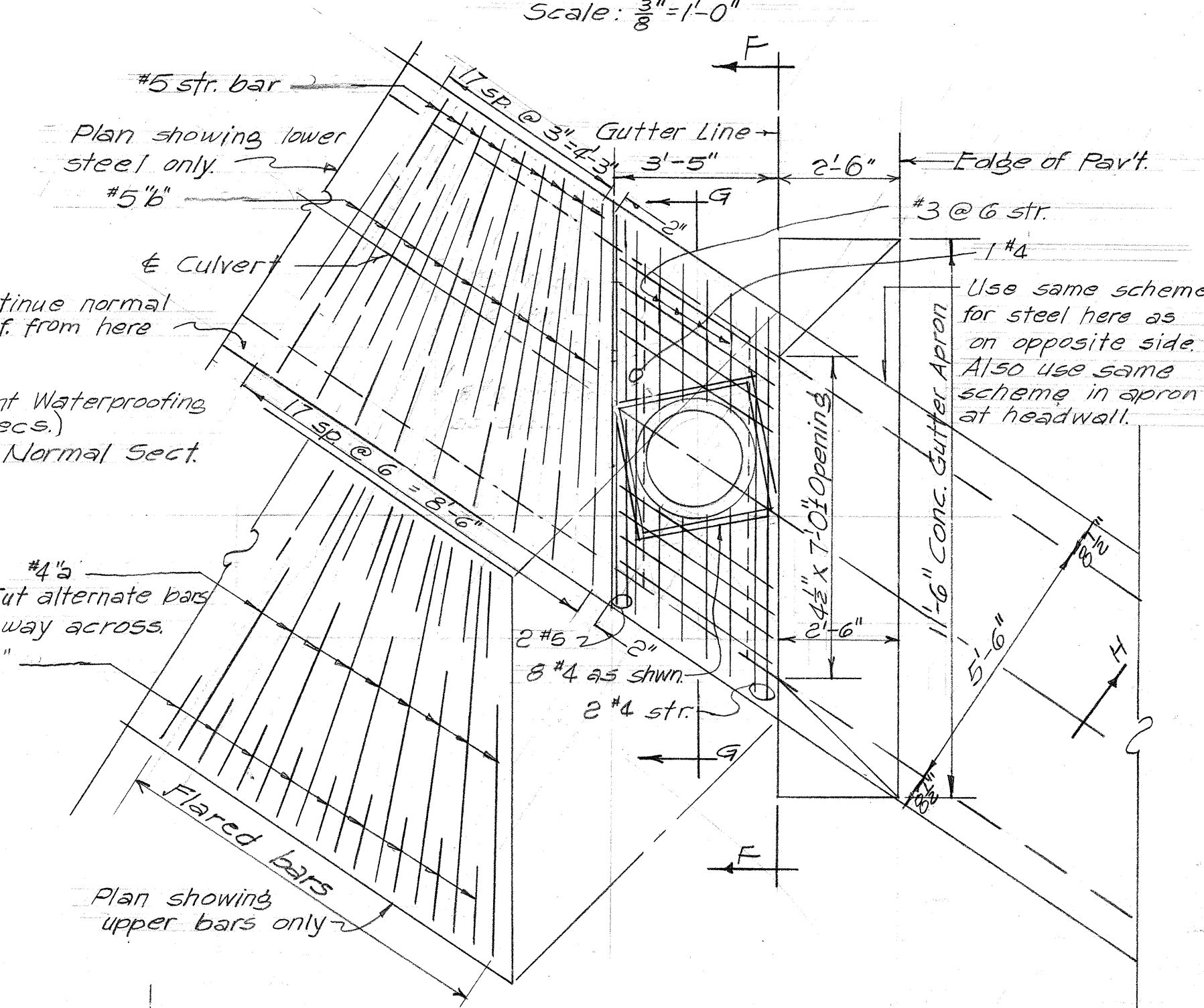
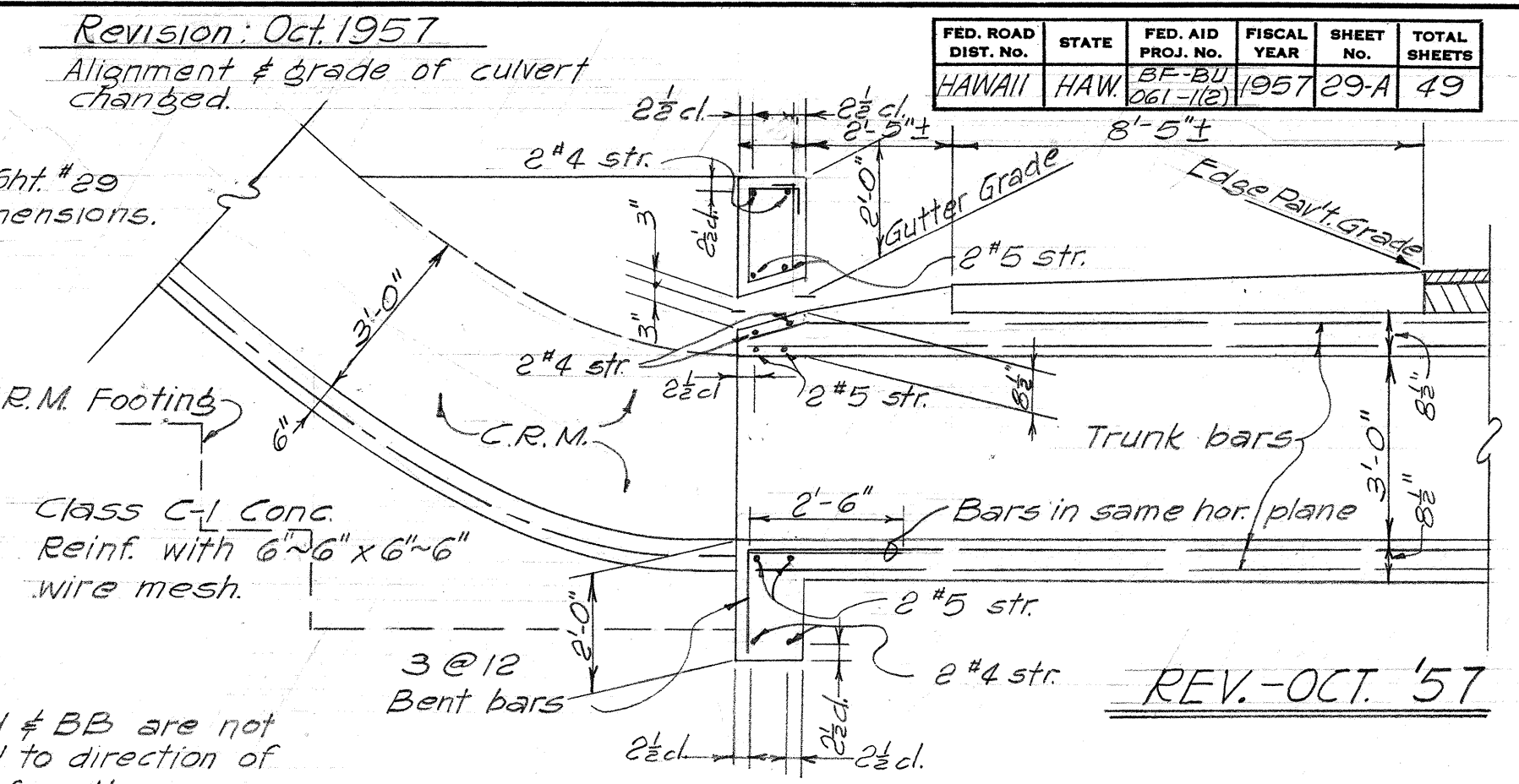
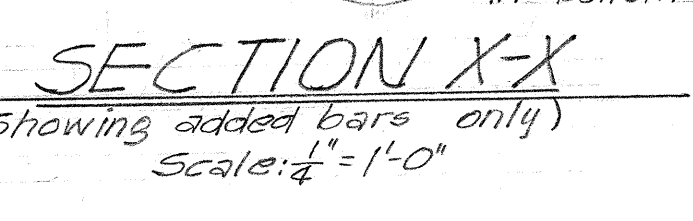
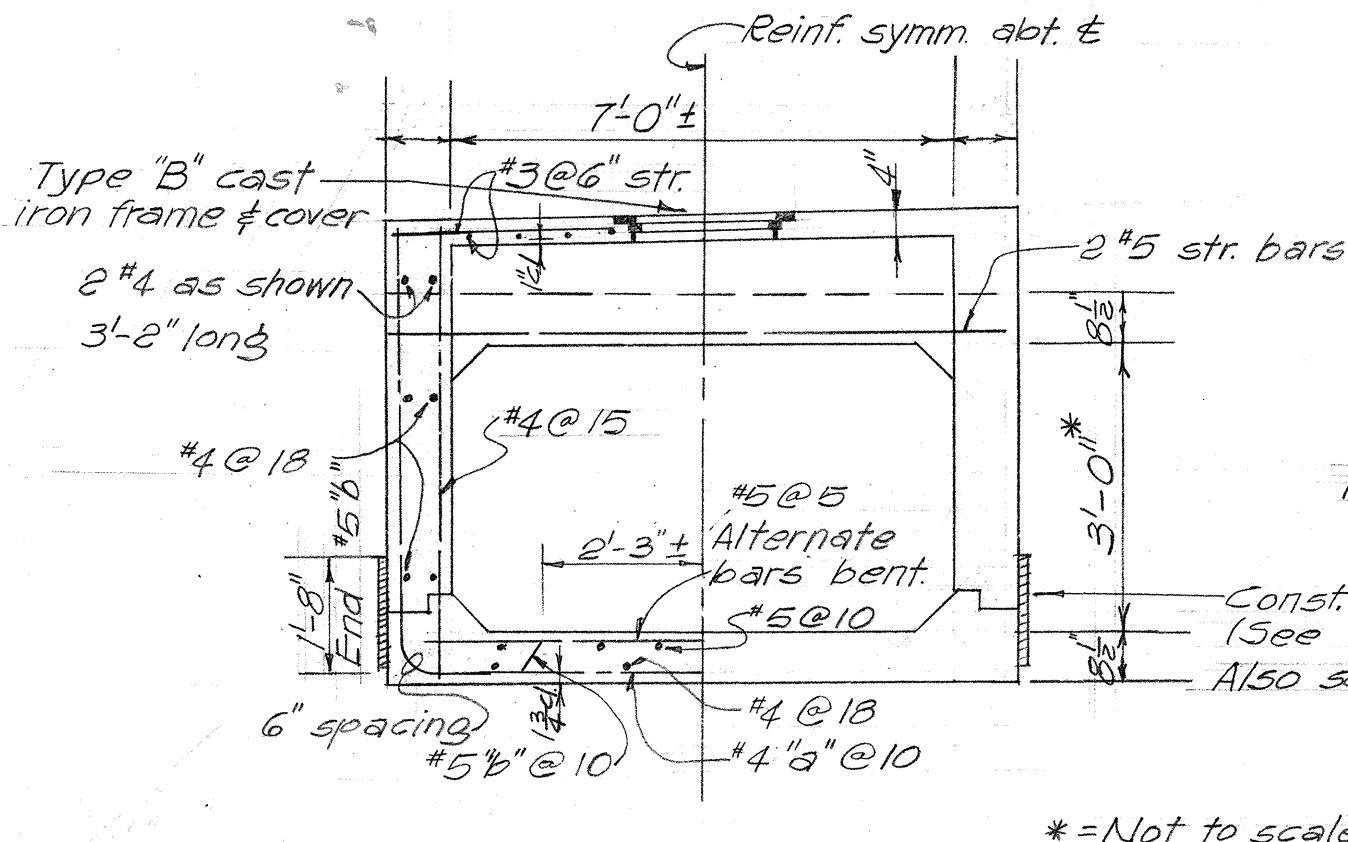
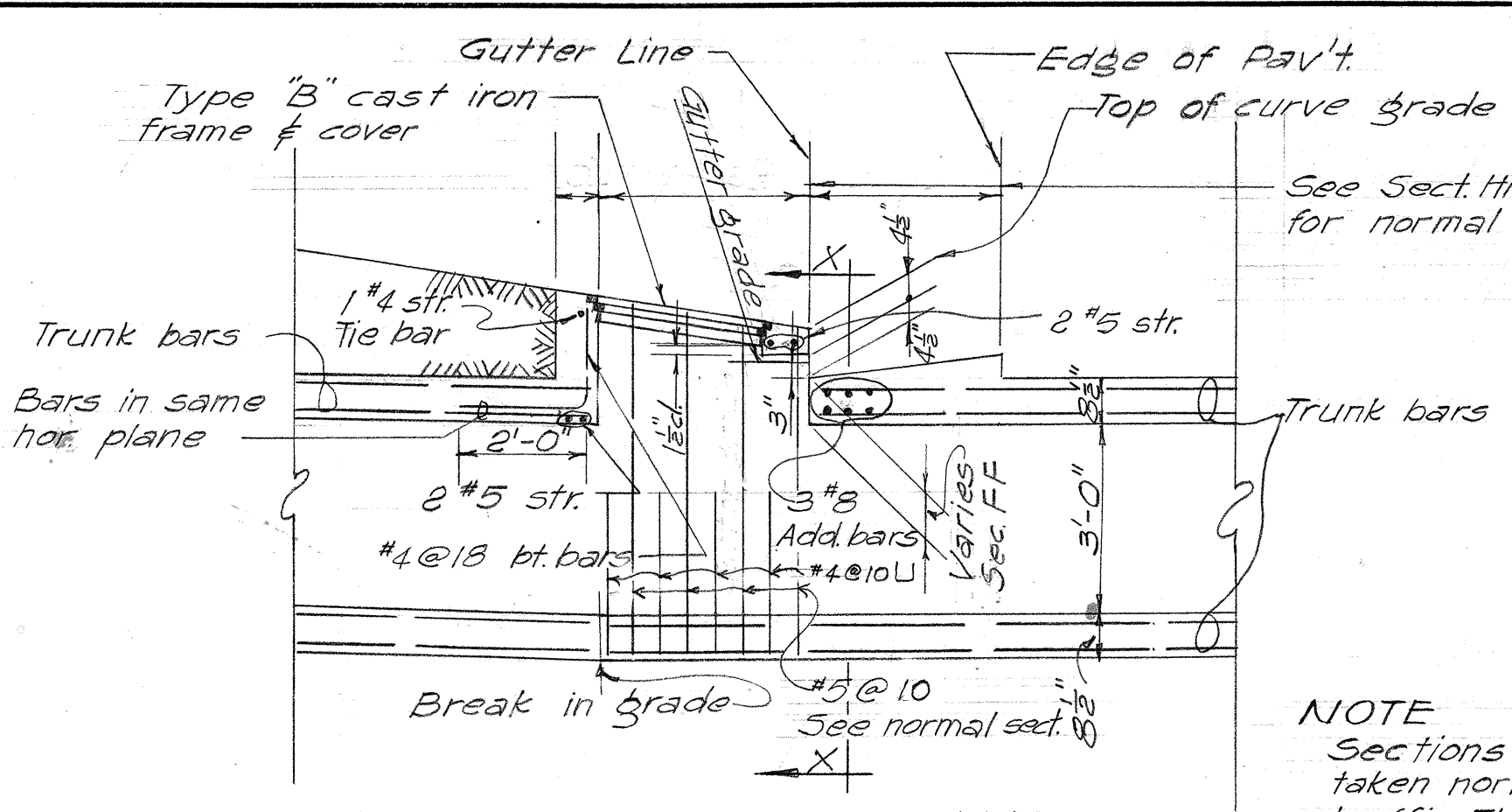
Sta. 103+05.50

PALI ROAD PROJ. BF-BU-061-1(2)
Jan. 1957



ESTIMATED QUANTITIES	
Class C-1 Concrete	Lump Sum
Reinf. Steel	Lump Sum
Struct. Excav.	193.0 cu. yd.

NOTE:
1. Measurements with a "±" indicates value only as scaled quantity.
2. For Sections CC, DD, and II, see Sht. 5303.29.
3. See Sht. 29 for Normal Sect. of culvert.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
5'-6" X 3'-0" BOX CULVERT
Sta. 103+05.50
PALI ROAD PROJ. BF-BU-061-112
REVISED Oct. 1957