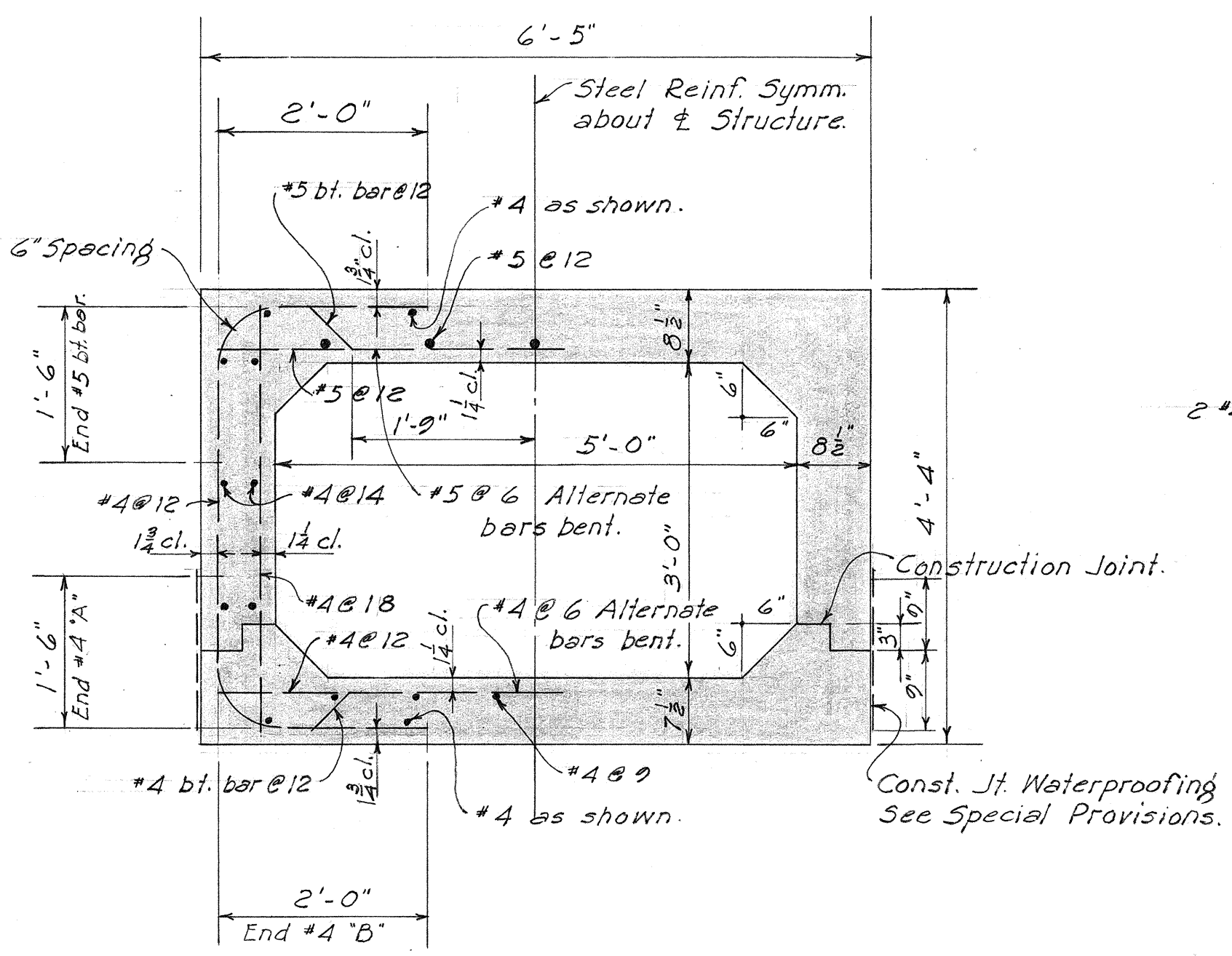
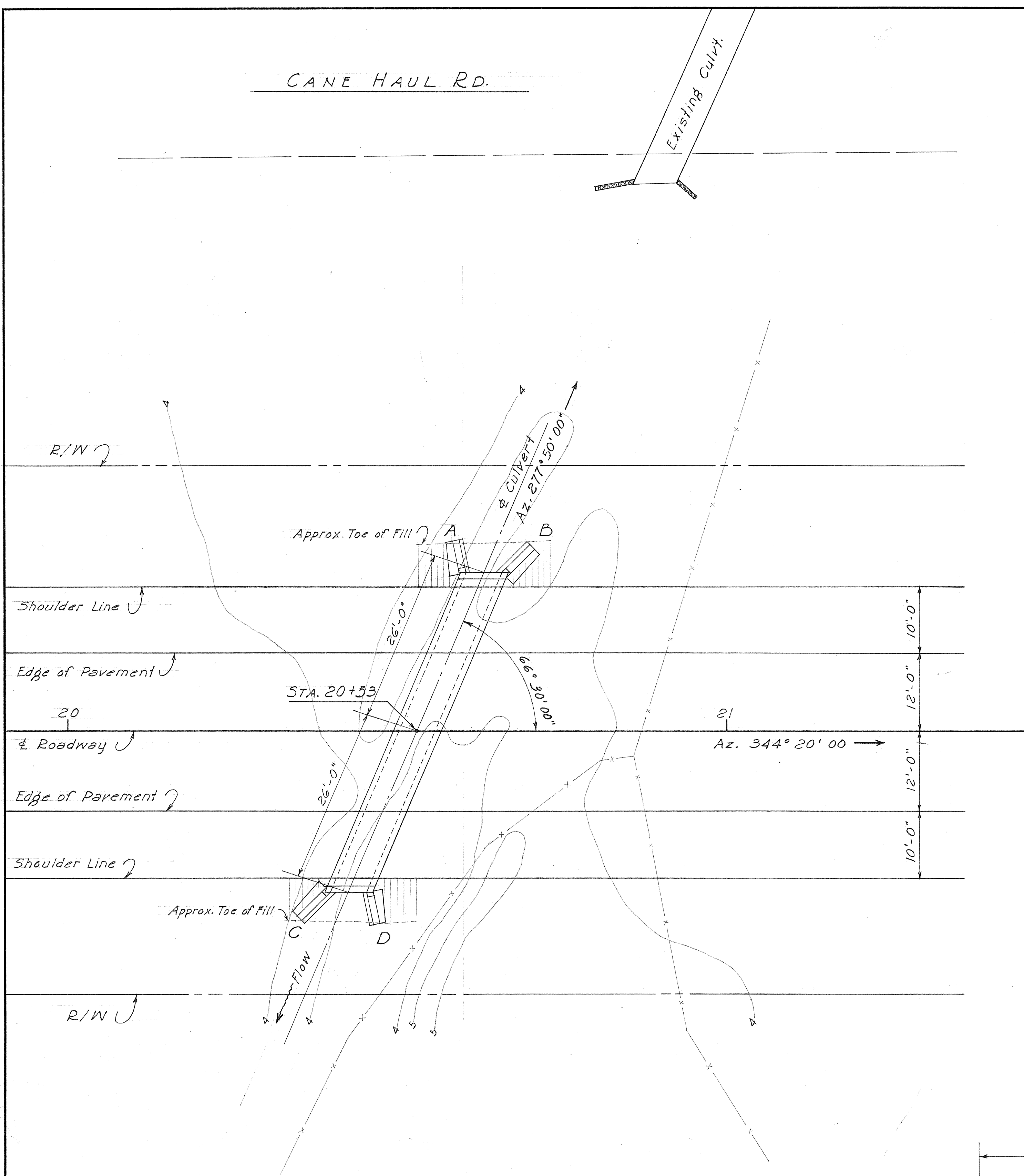
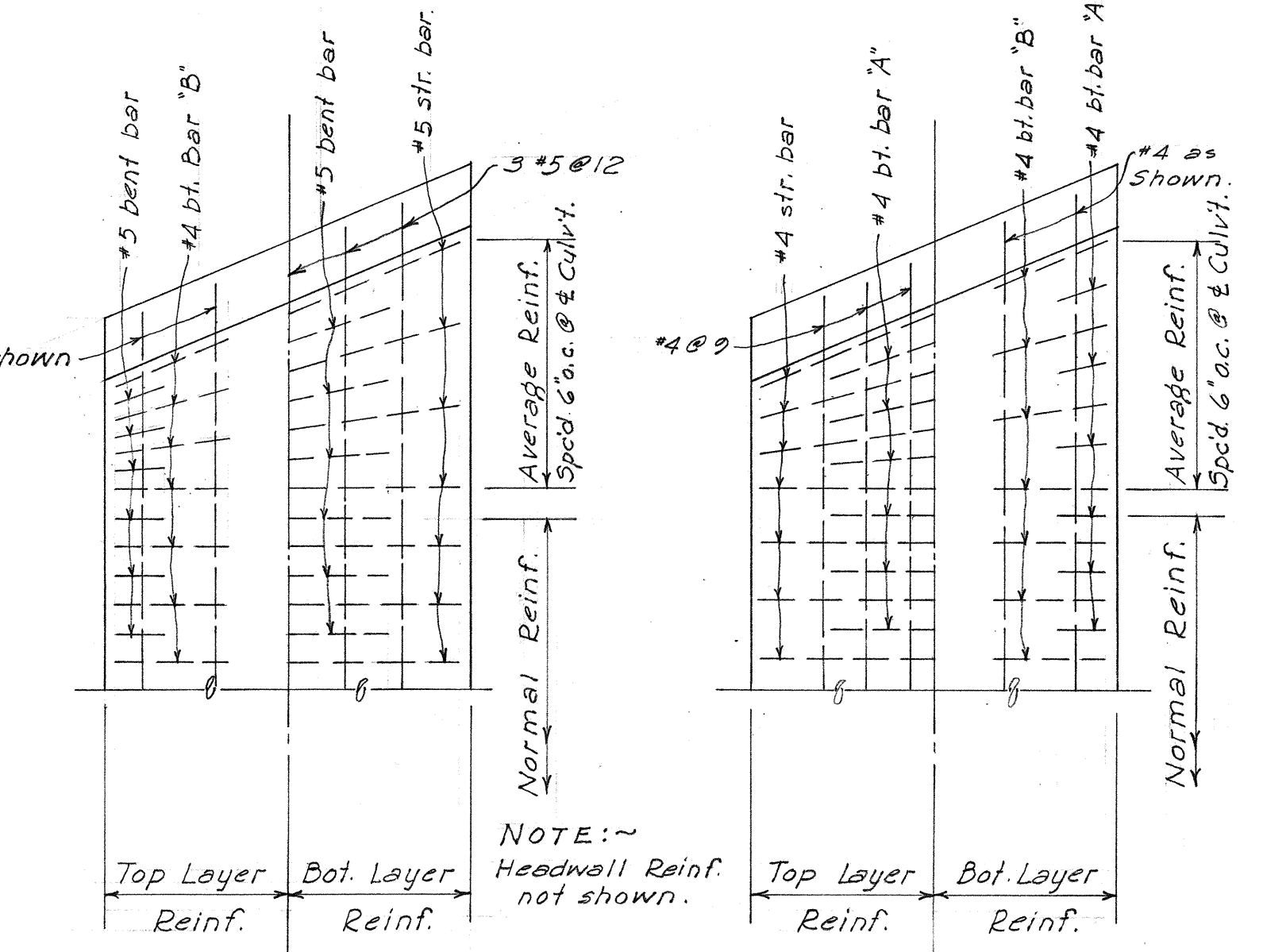


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-030-10	1955	22	60

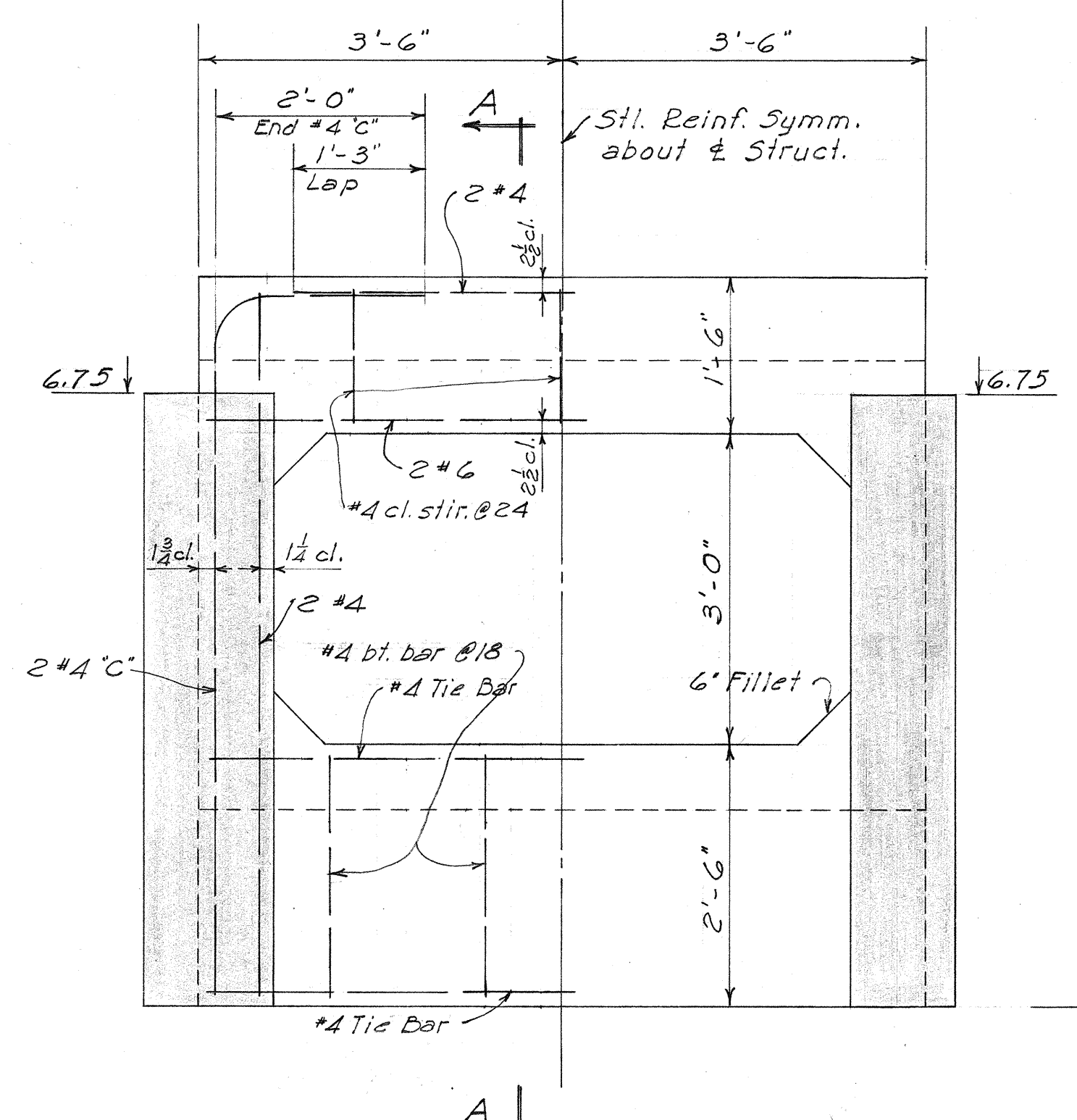


NORMAL SECTION
Scale - 3/4" = 1'-0"

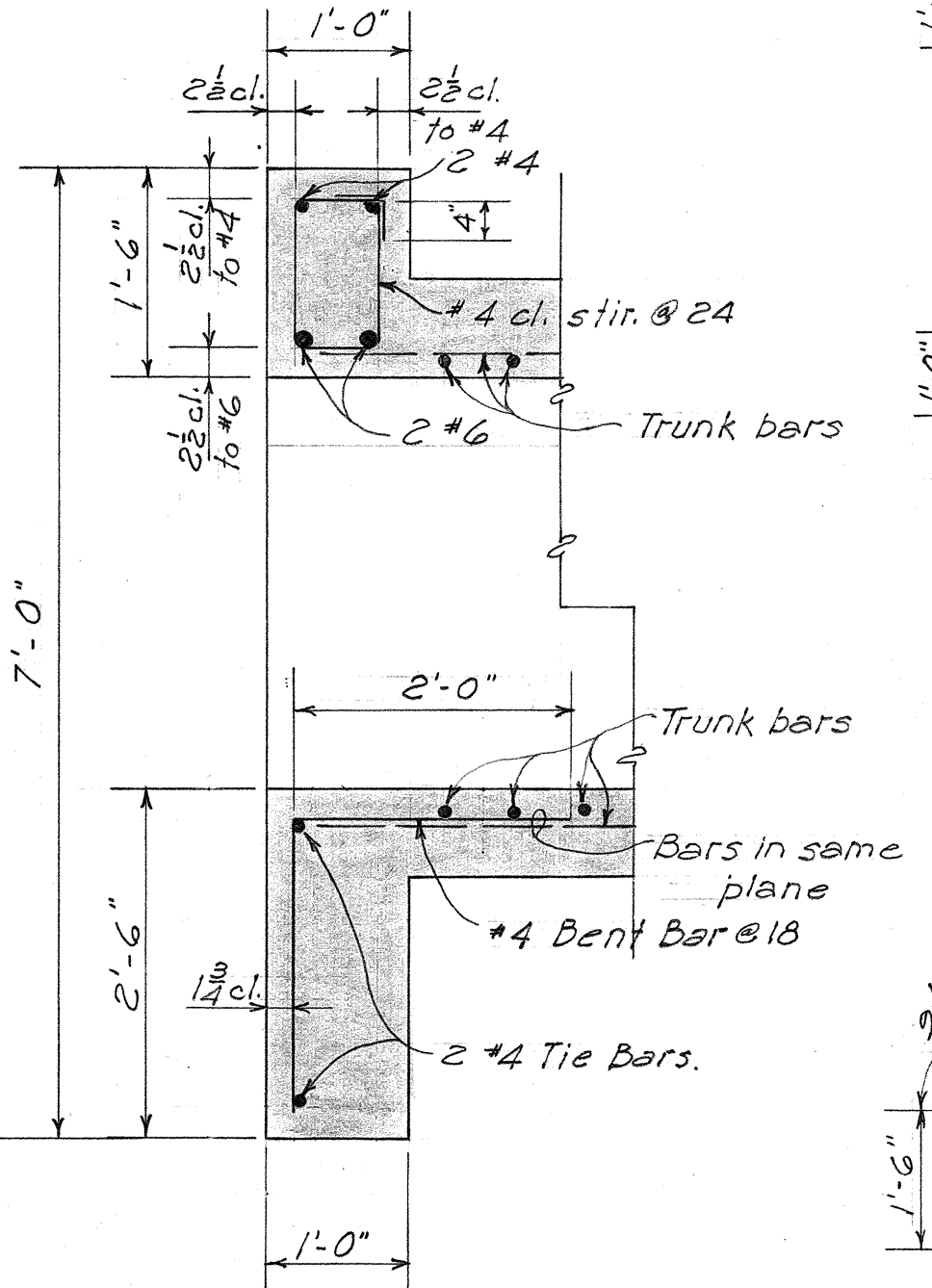


DECK SLAB
Scale - 3/8" = 1'-0"

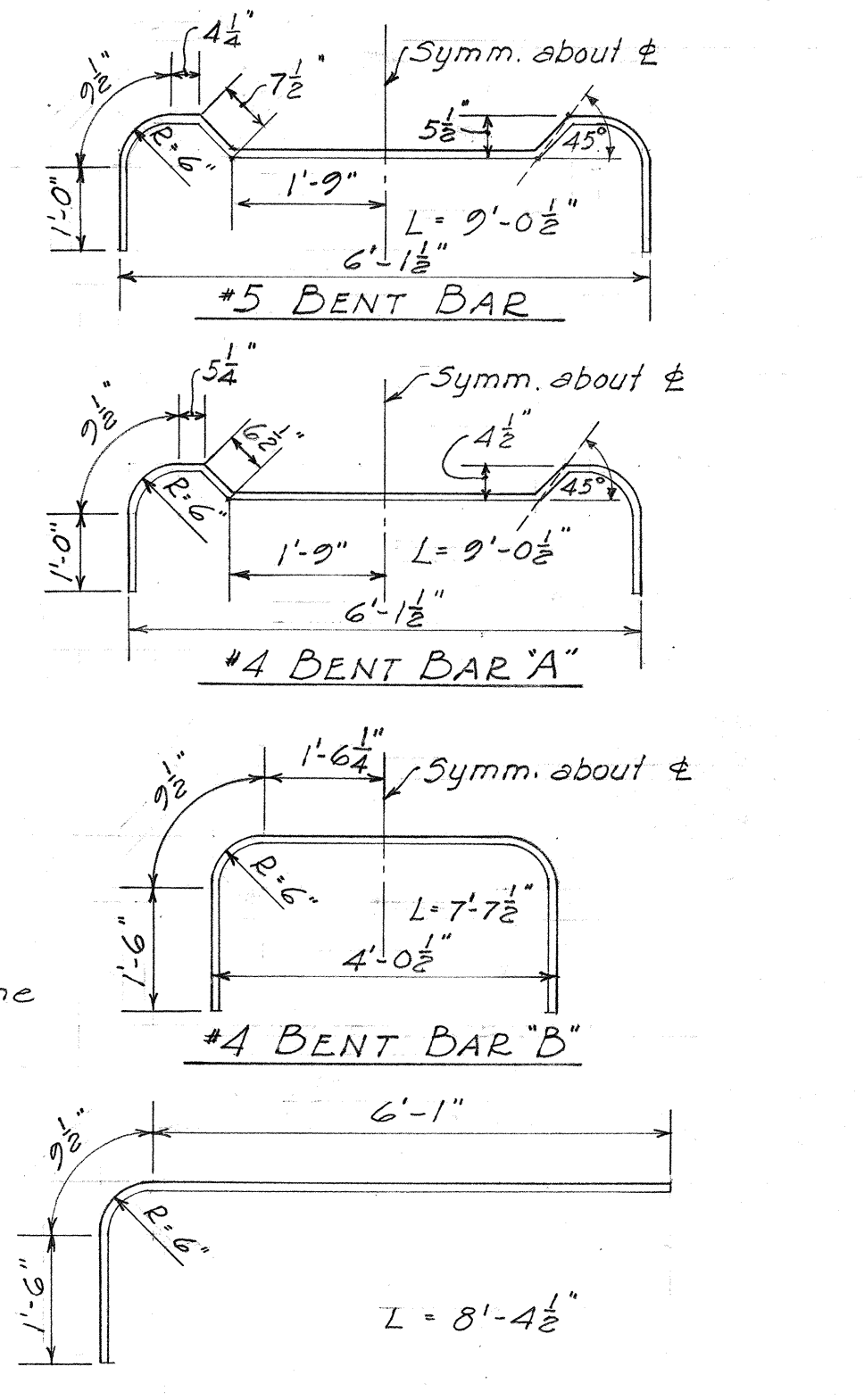
FLOOR SLAB
Scale - 3/8" = 1'-0"



OUTLET HEADWALL ELEV.
Scale - 3/4" = 1'-0" (Intake Headwall Similar.)



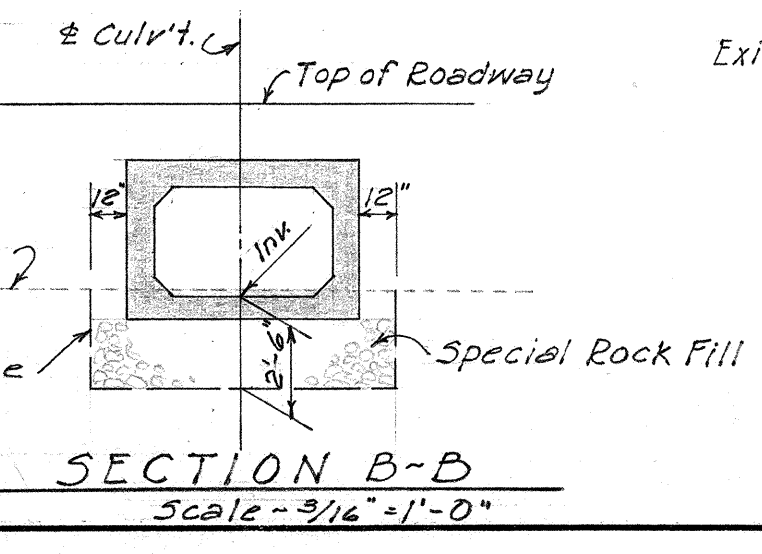
SECTION A-A
Scale - 3/4" = 1'-0"



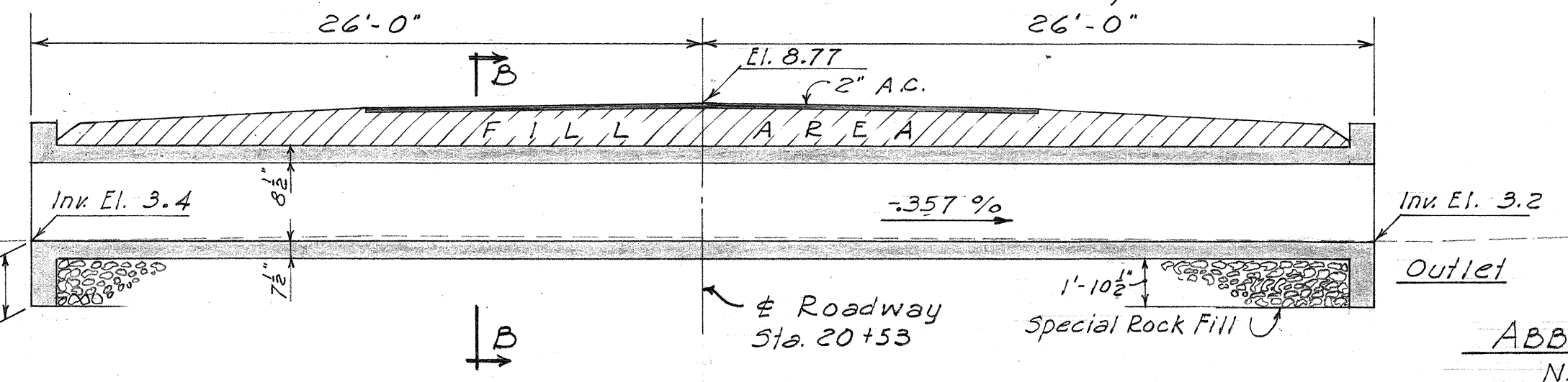
REINF. DETAIL
Note: ~ All stirrup dimensions are to inside of stirrups; all other dimensions are figured out to out of bars.

ESTIMATED QUANTITIES

Concrete	Lump Sum
Reinf. Steel	Lump Sum
Structural Exc.	48.0 cu. yd. 55.9
Special Rock Fill	30.9 cu. yd. 31.0



SECTION B-B
Scale - 3/16" = 1'-0"



LONG. SEC. ALONG & CULV'T.
Scale - 3/16" = 1'-0"

ABBREVIATION USED

N. F.	Near Face
F. F.	Far Face
E. F.	Each Face
bt.	Bent

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

5'X3' CONG. BOX CULV'T.
Sta. 20+53

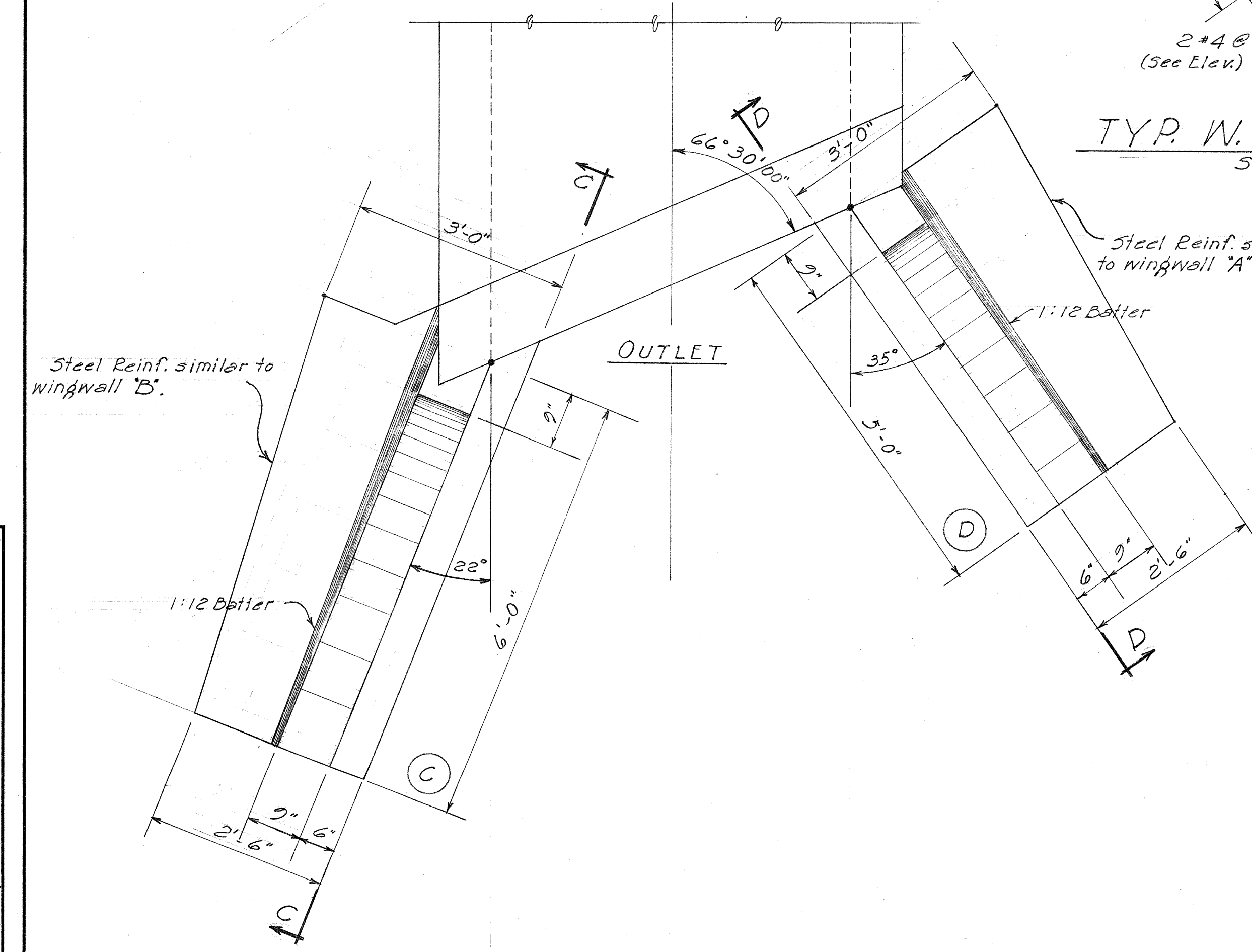
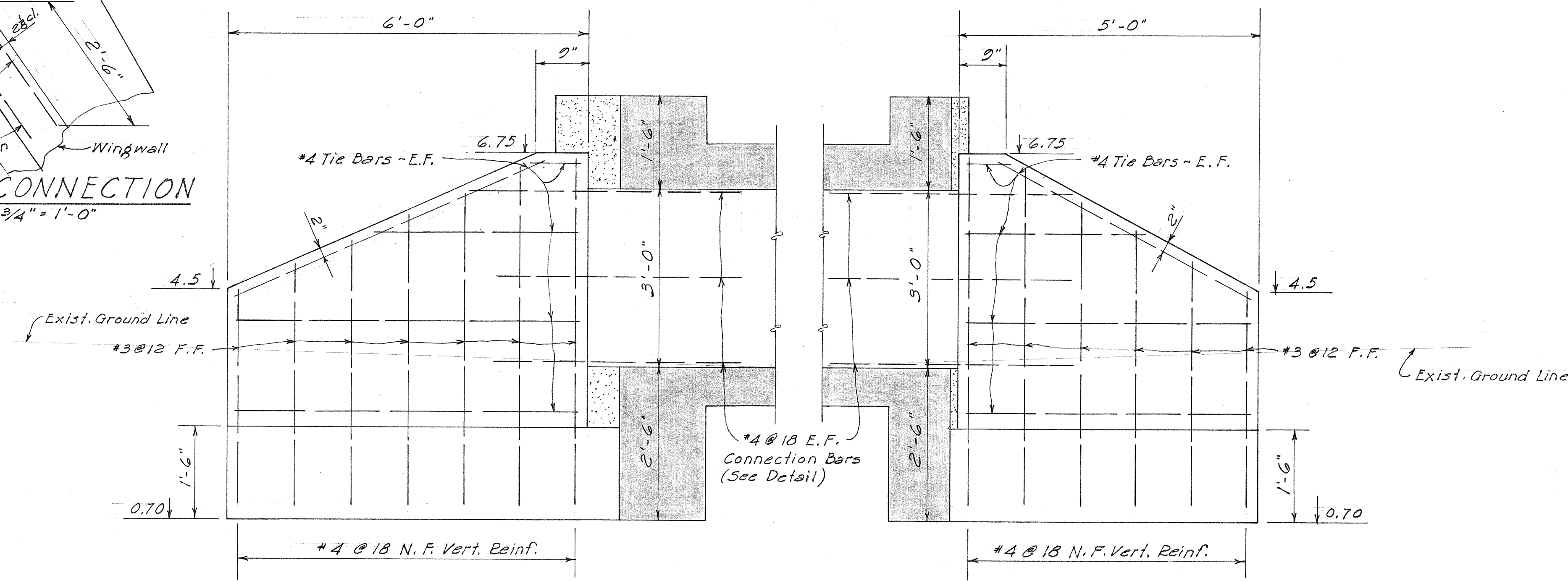
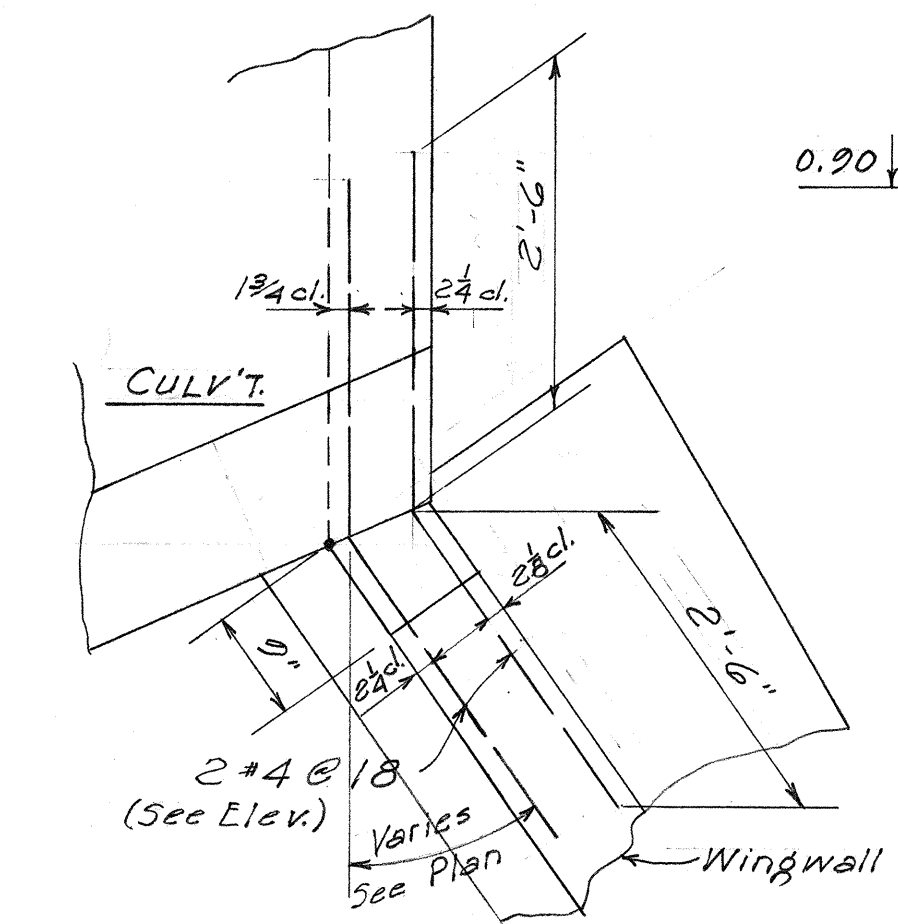
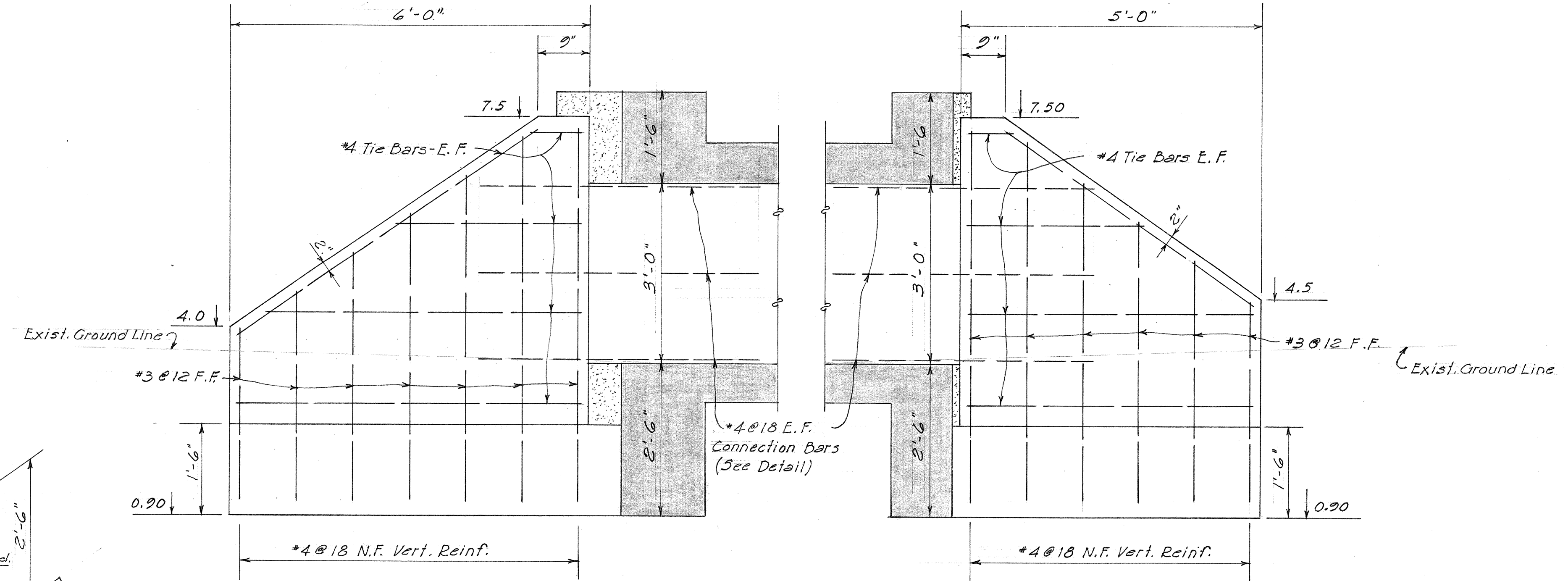
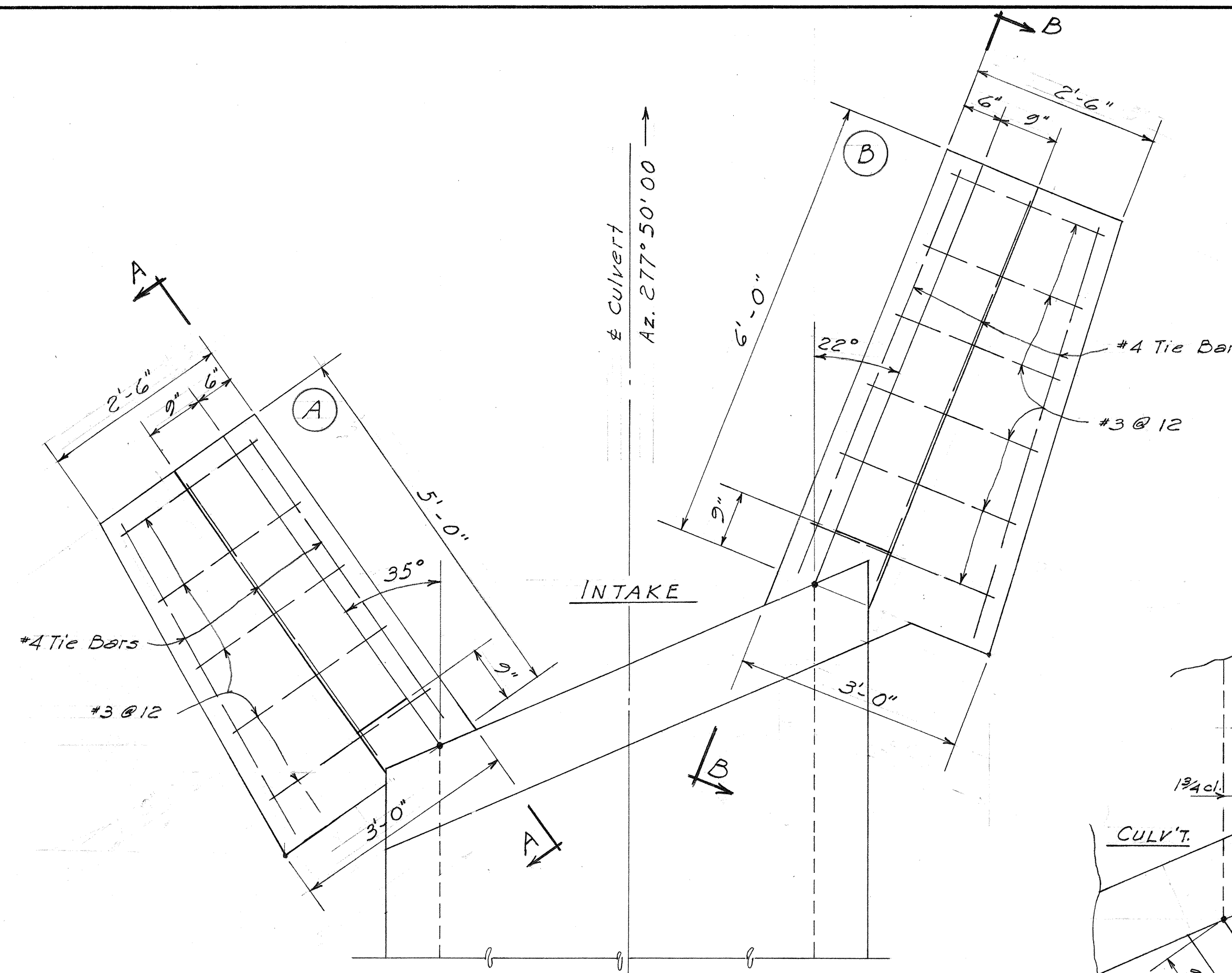
LAHAINA-WAILUKU RD. F-030-1(1)
Oct. 1955

SHEET NO. 1 OF 2 SHEETS

5595.22

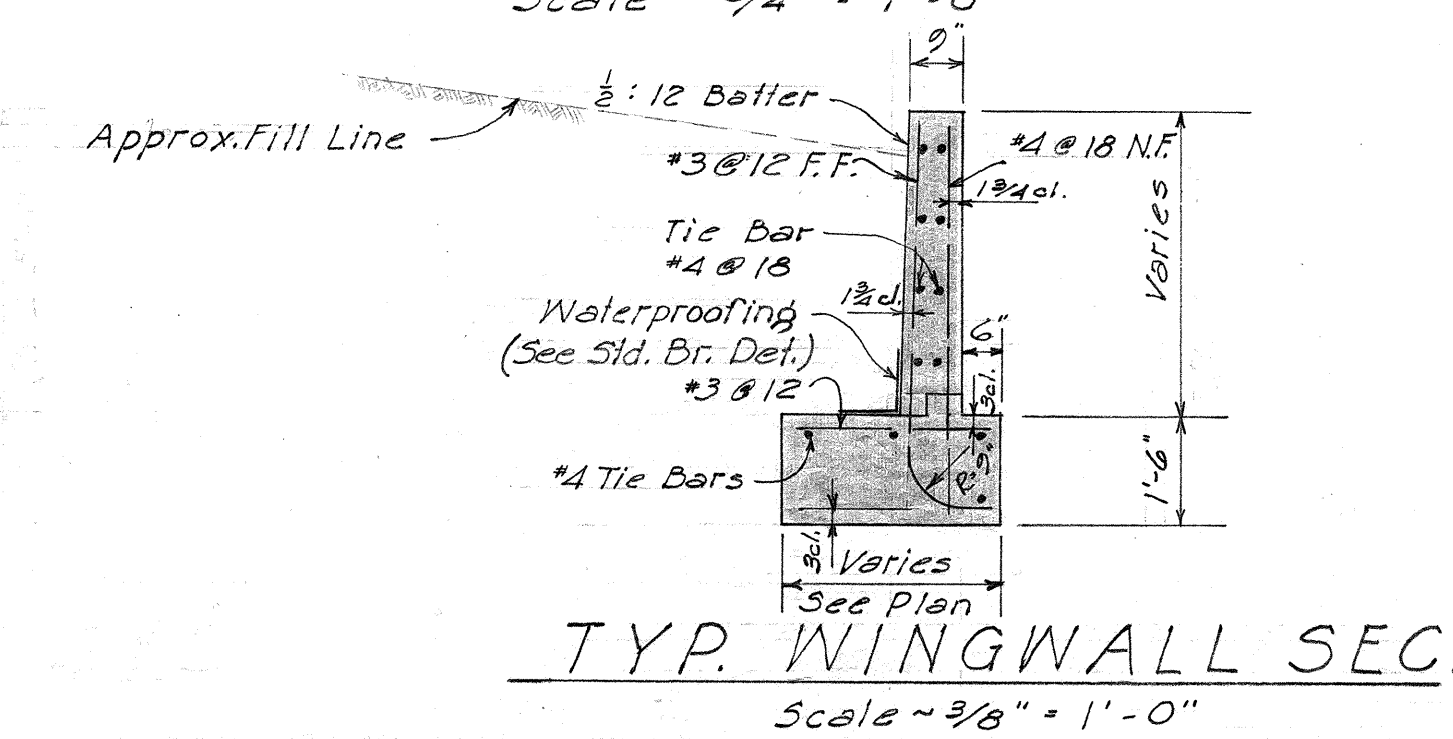
DATE 10/1/55
SURVEY PLOTTED BY
DRAWN BY
CHECKED BY
NOTE BOOK NO.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F030-1(1)	1955	23	60



FOOTING REINF. PLAN
Scale ~ 3/4" = 1'-0"

ELEV. C-C ELEV. D-D
WINGWALL ELEVATIONS
Scale ~ 3/4" = 1'-0"



TYP. WINGWALL SEC.
Scale ~ 3/8" = 1'-0"

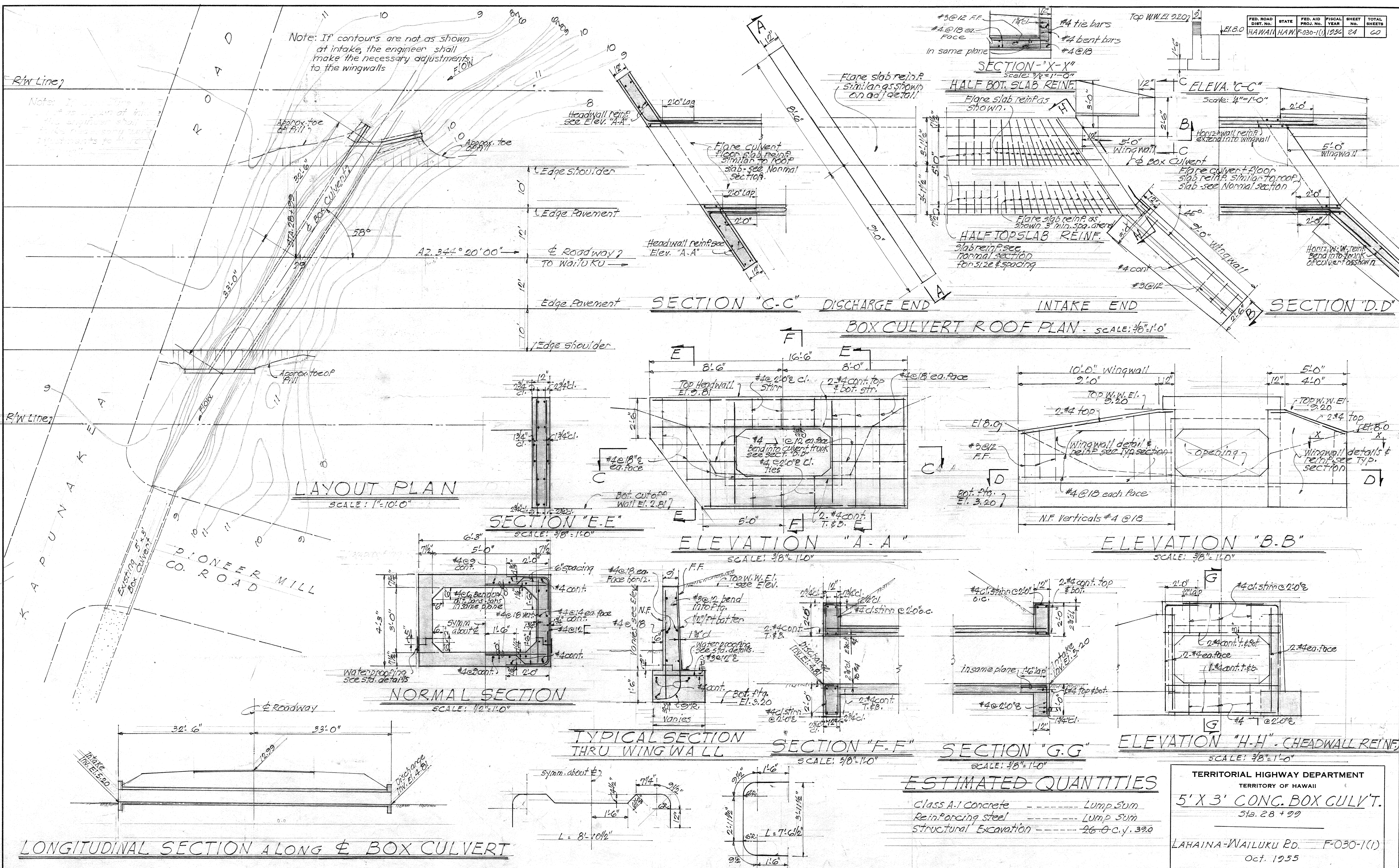
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
5'X3' CONG. BOX CULV'T.
Sta. 20 + 53
LAHAINA-WAILUKU RD. F-030-1(1)
Oct. 1955

SHEET NO. 2 OF 2 SHEETS

5795.23

DESIGNED BY	DATE
DRAWN BY	10/55
CHECKED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-030-1(1)	1954	24	60



ESTIMATED QUANTITIES

Class A-1 Concrete	-----	Lump Sum
Reinforcing steel	-----	Lump Sum
Structural Excavation	-----	26.0 c.y. @ 39.0

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
5' X 3' CONG. BOX CULV'T.
 Sta. 28 + 99
 LAHAINA-WAILUKU RD. F-030-1(1)
 Oct. 1955

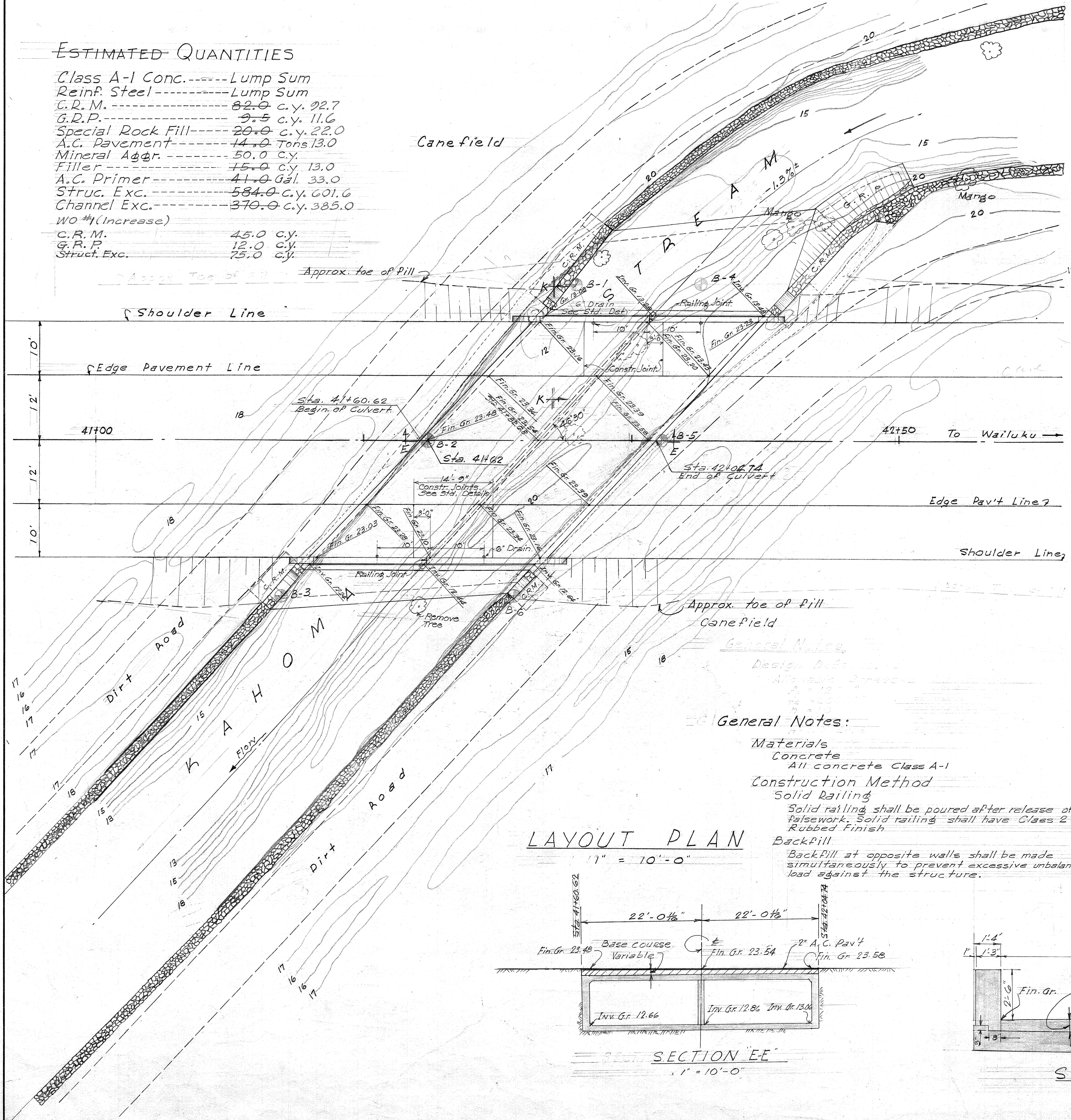
SHEET NO. 1 OF 24 SHEETS

5595.24

DESIGNED BY	DATE
DRAWN BY	10/55
CHECKED BY	
QUANTITIES CHECKED BY	
NOTE BOOK	
NO.	

ESTIMATED QUANTITIES

Class A-1 Conc.	Lump Sum
Reinf. Steel	Lump Sum
C.R.M.	82.0 c.y. 92.7
G.R.P.	3.5 c.y. 11.6
Special Rock Fill	20.0 c.y. 22.0
A.C. Pavement	14.0 Tons 13.0
Mineral Aggr.	50.0 c.y.
Filler	15.0 c.y. 13.0
A.C. Primer	41.0 Gal. 33.0
Struc. Exc.	584.0 c.y. 601.6
Channel Exc.	370.0 c.y. 385.0
WO #1 (Increase)	
C.R.M.	45.0 c.y.
G.R.P.	12.0 c.y.
Struct. Exc.	75.0 c.y.



General Notes:

Materials
Concrete
All concrete Class A-1

Construction Method
Solid Railing

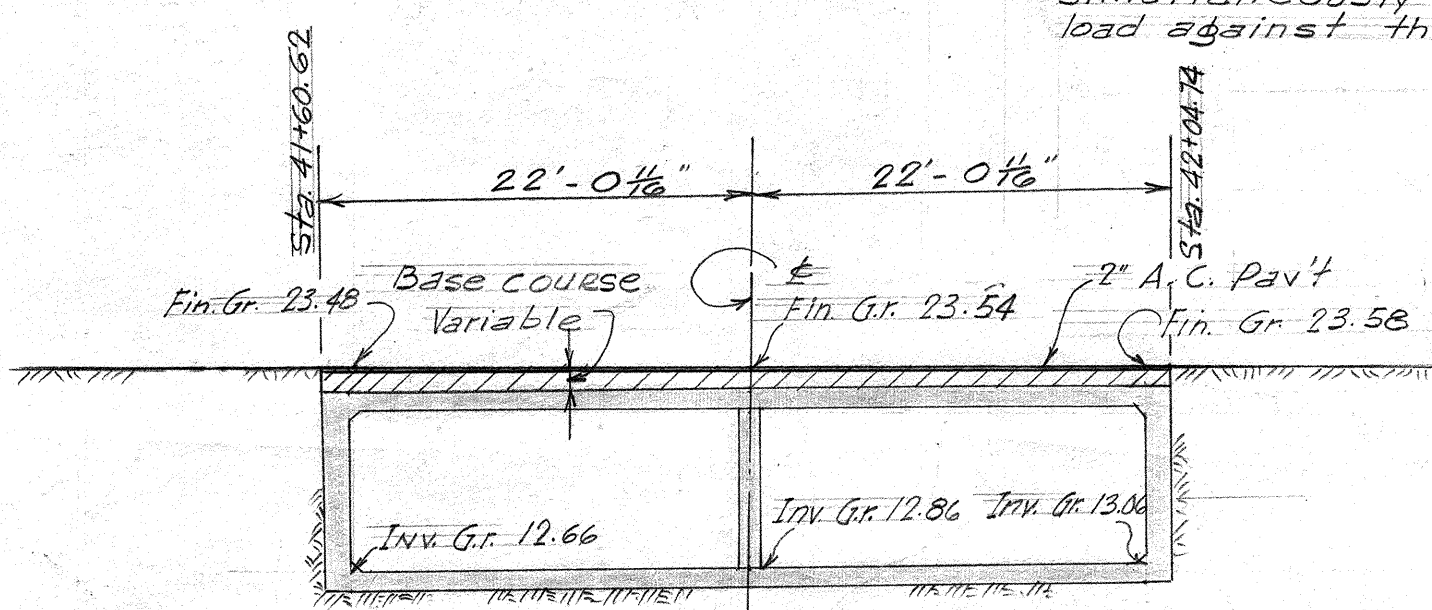
Solid railing shall be poured after release of falsework. Solid railing shall have Class 2 Rubbed Finish

Backfill

Backfill at opposite walls shall be made simultaneously to prevent excessive unbalanced load against the structure.

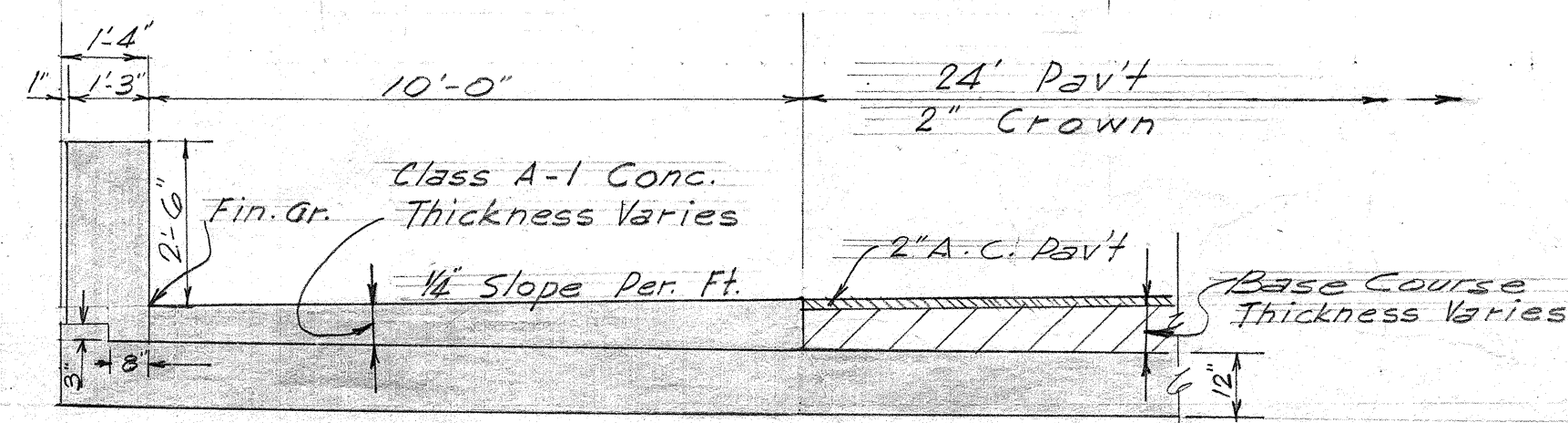
LAYOUT PLAN

1" = 10'-0"



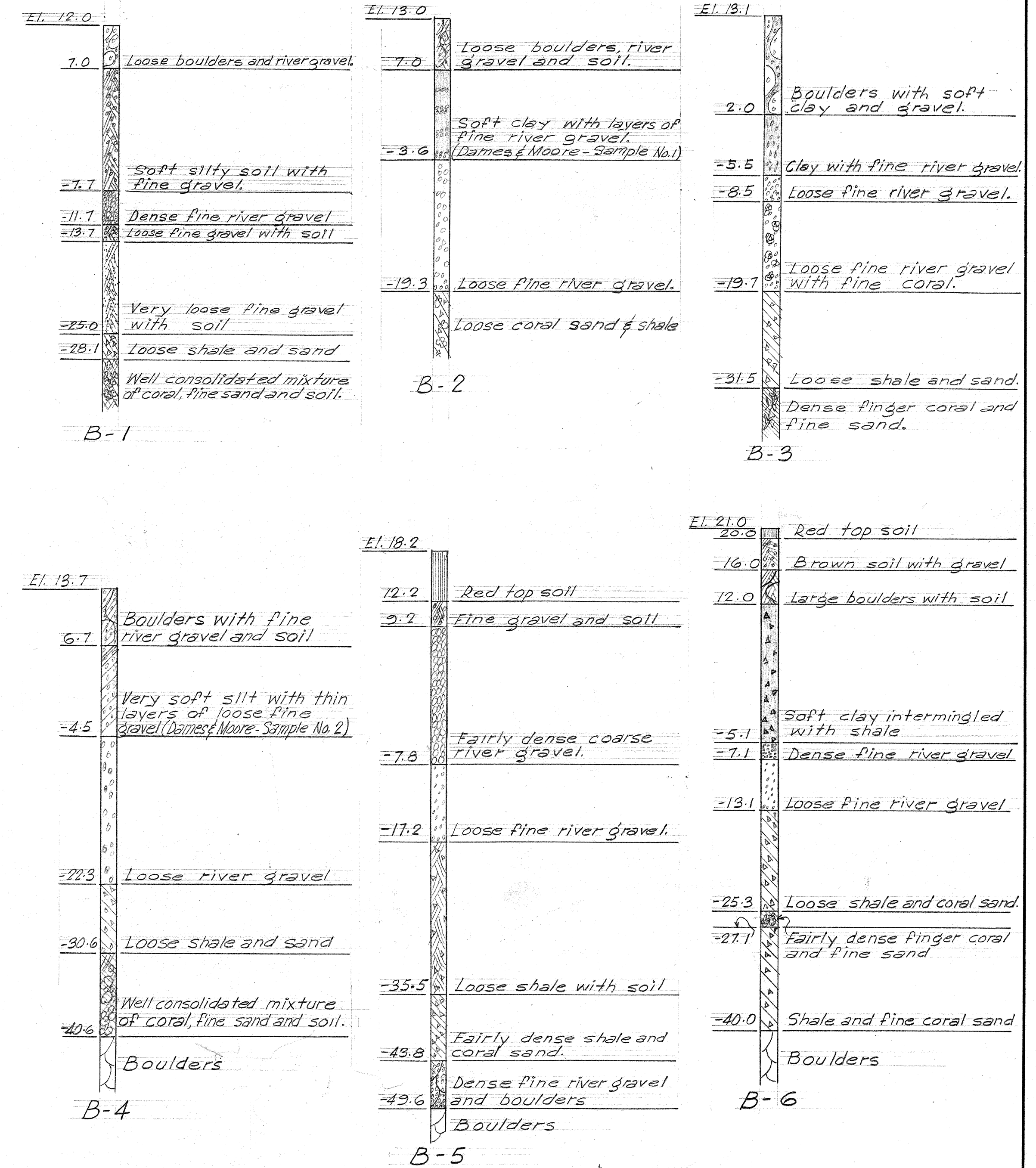
SECTION EE'

1" = 10'-0"



SECTION K-K'

3/8" = 1'-0"



BORING DATA

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

14'-6" x 8'-6" TWIN BOX CULVERT
Sta. 41+60.62 to Sta. 42+04.74

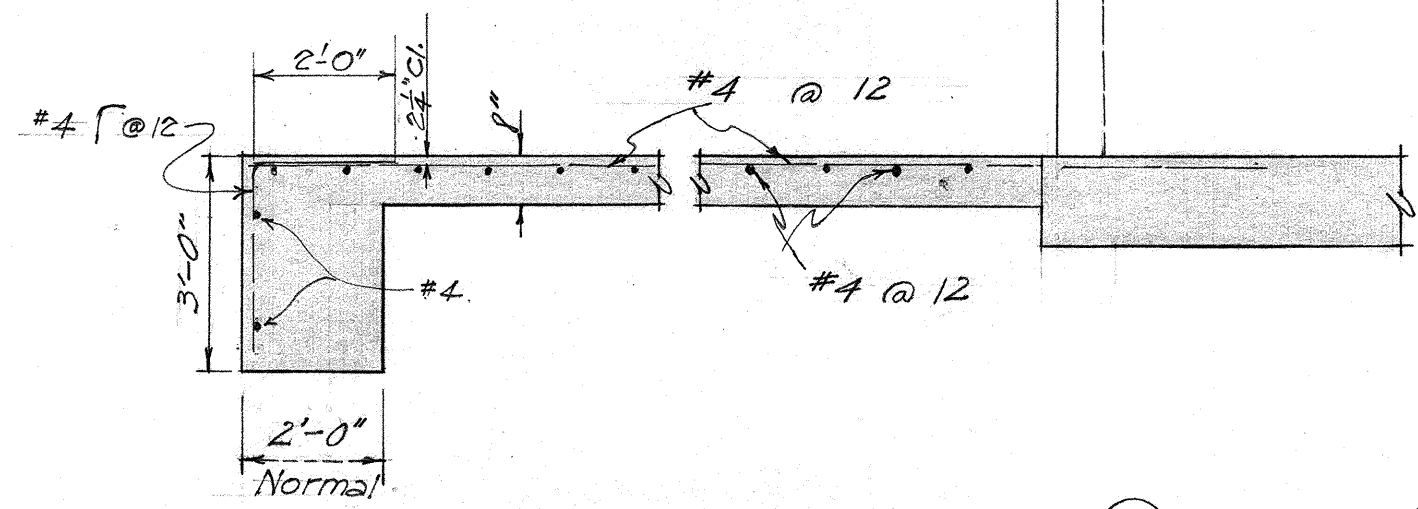
Lahaina-Wailuku Rd. Proj. F-030-11,
December 1955

SHEET NO. 1 OF 4 SHEETS

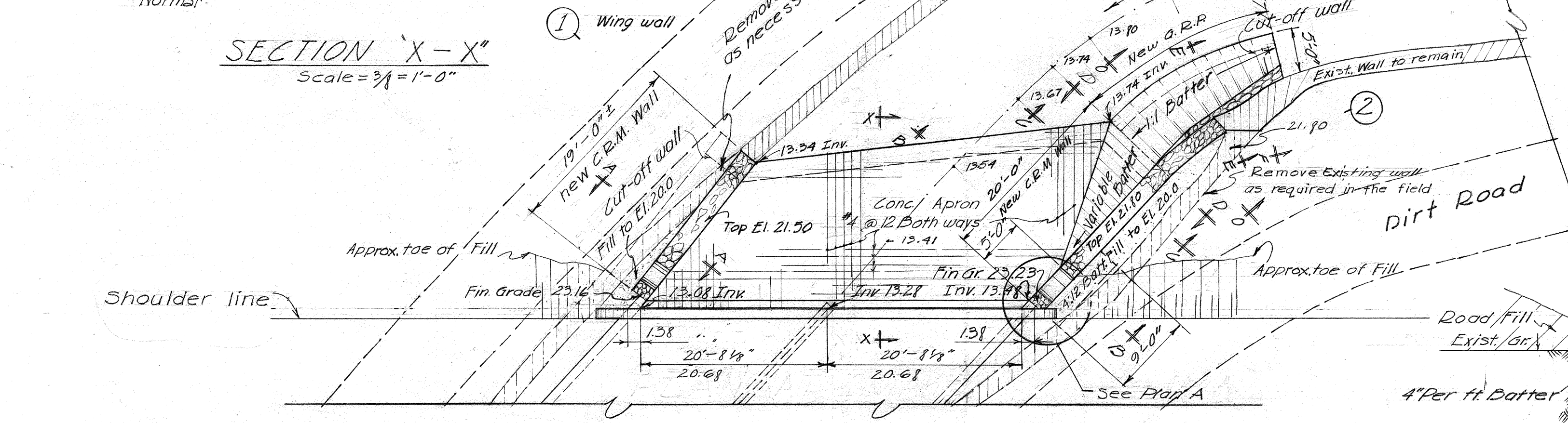
5795.25

DATE
SURVEYED BY
DRAWN BY
CHECKED BY
ORIGINAL PLAN
NOTE BOOK
No.

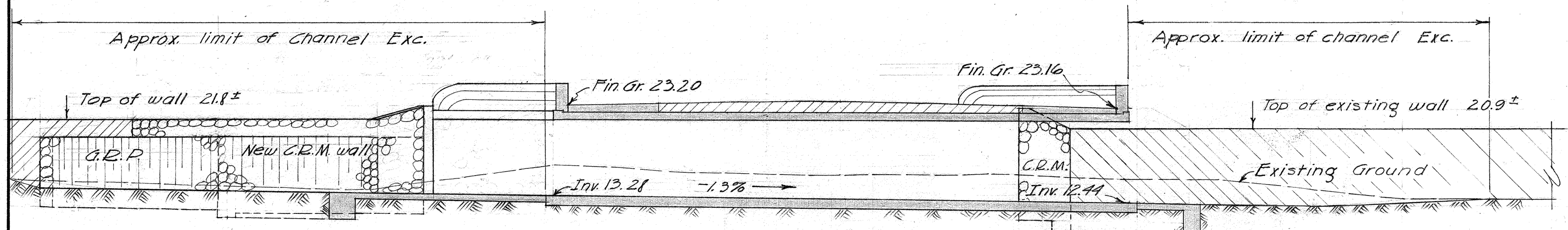
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F030-1(1)	1956	26	60



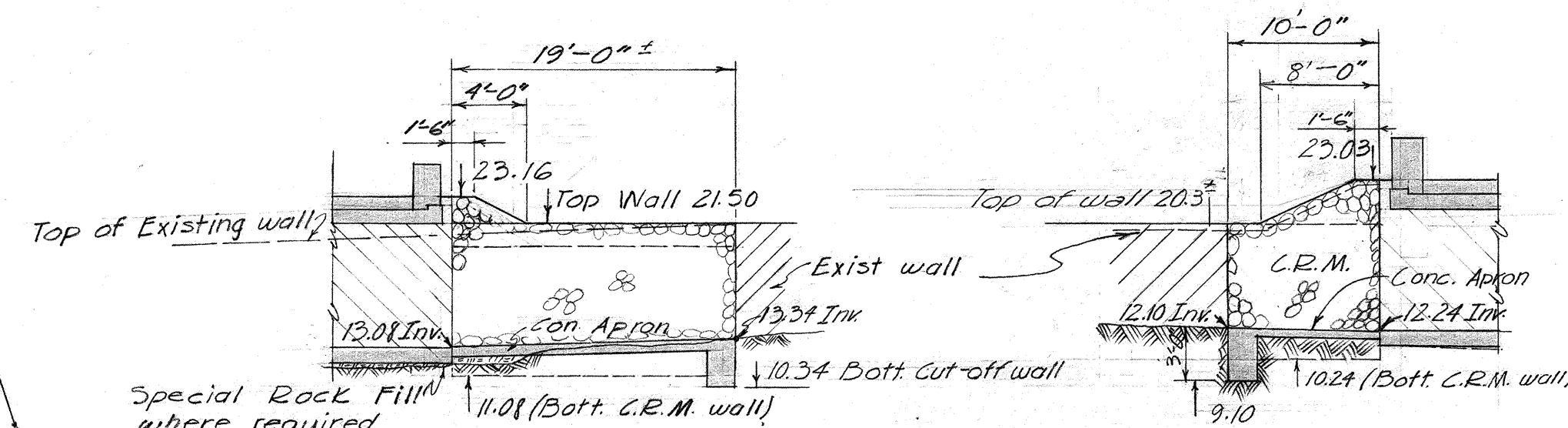
SECTION 'X-X'
Scale: 3/4" = 1'-0"



PLAN AT INTAKE AND OUTLET
Scale: 1" = 10'-0"

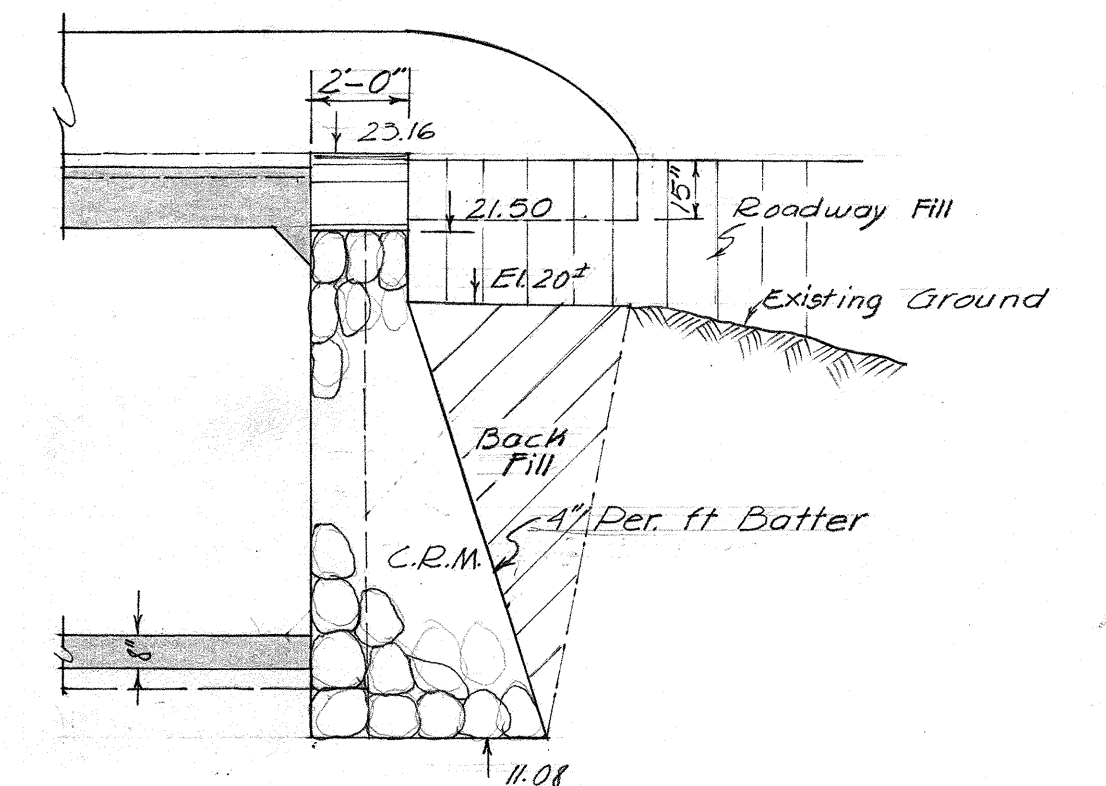


LONGITUDINAL CROSS SECTION 'A-A'
Scale: 1" = 10'-0"

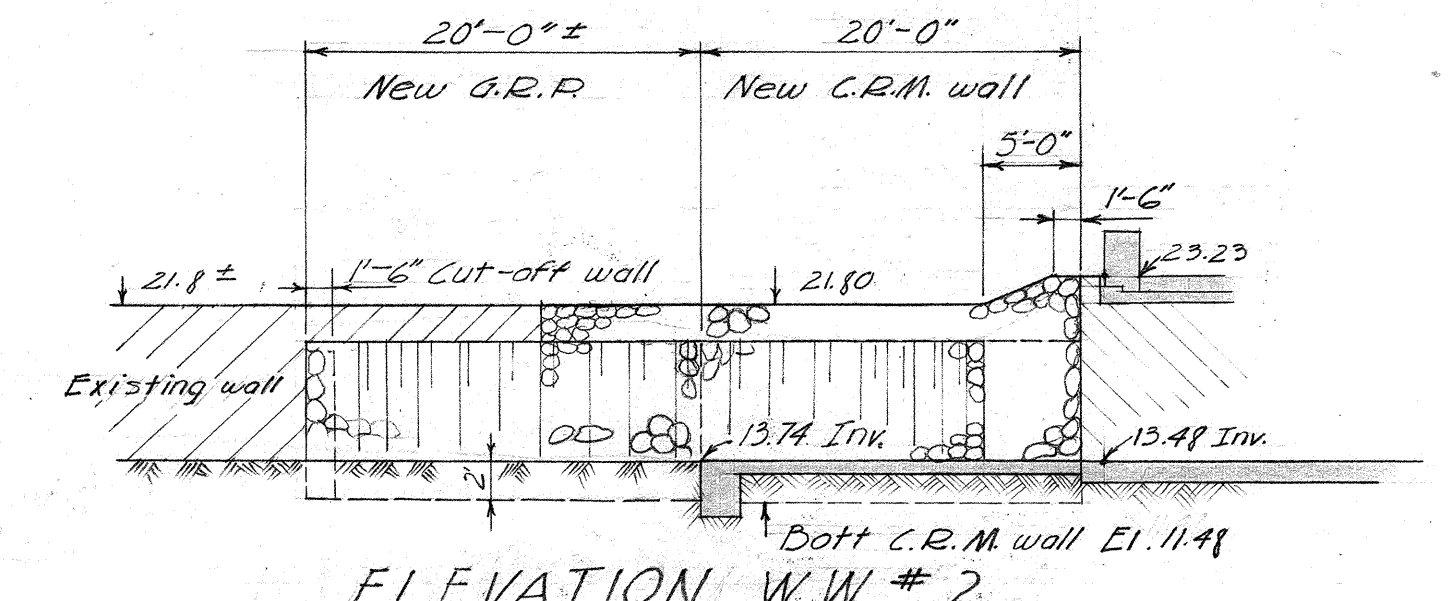


ELEVATION W.W. #1
Scale: 1" = 10'-0"

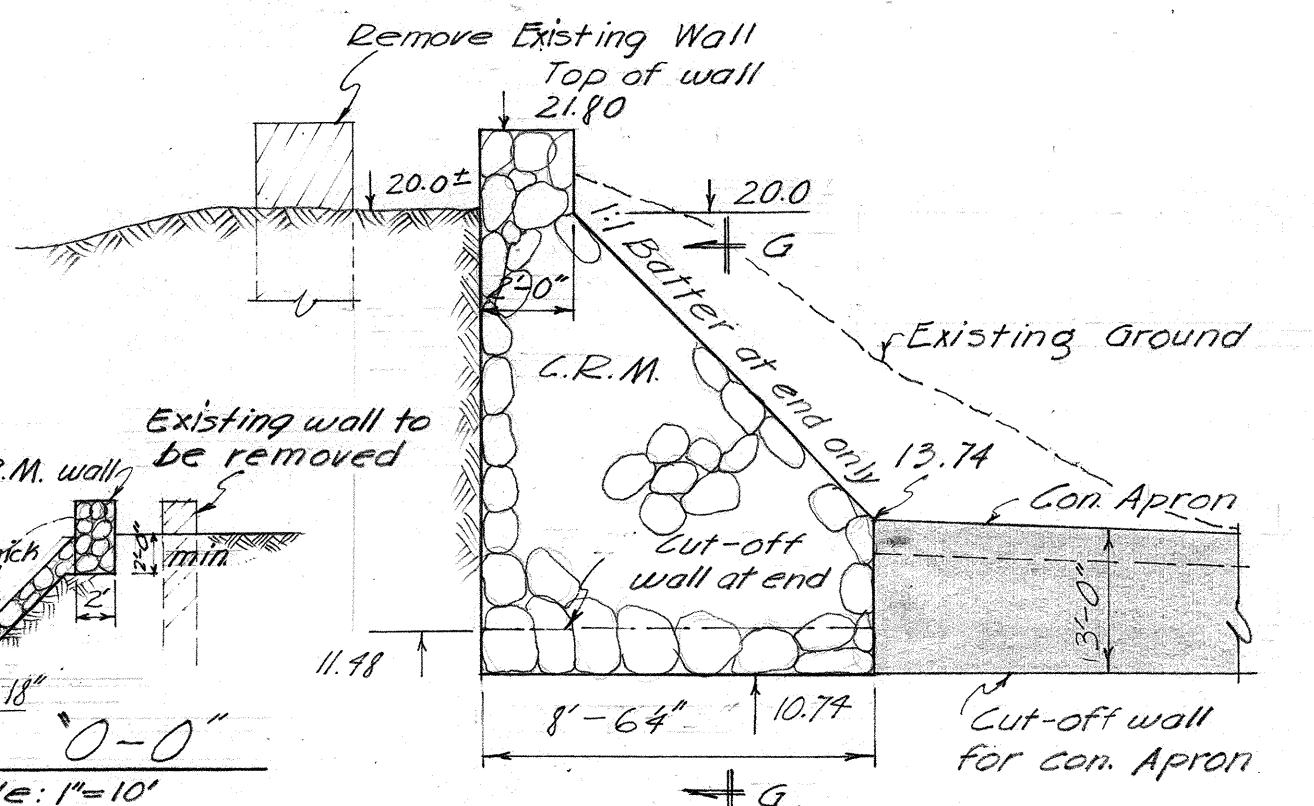
ELEVATION W.W. #4
Scale: 1" = 10'-0"



SECTION 'A-A'
Scale: 4" = 1'-0"

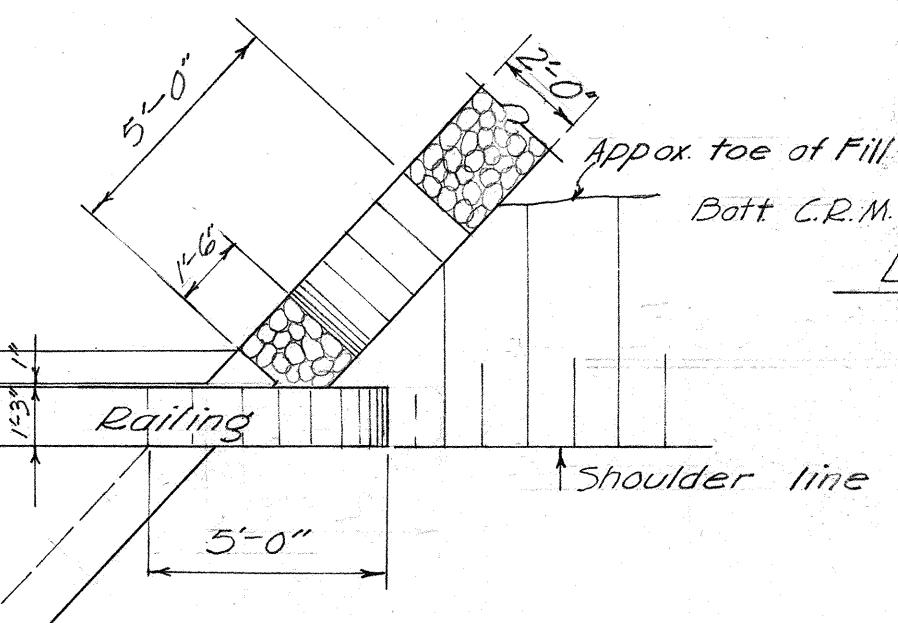


ELEVATION W.W. #2
Scale: 1" = 10'-0"

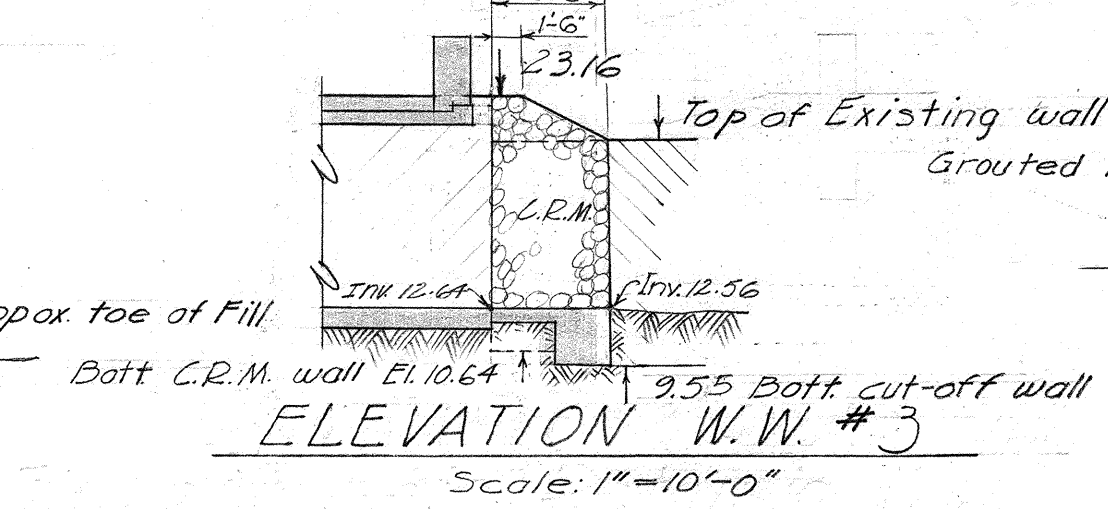


SECTION 'D-D'
Scale: 1" = 10'

SECTION 'H-H'
Scale: 1" = 10'-0"

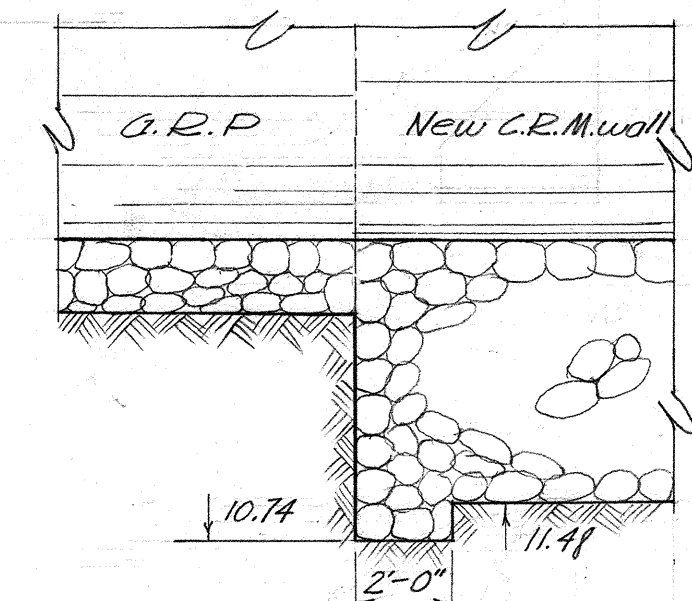


PLAN A
Scale: 4" = 1'-0"

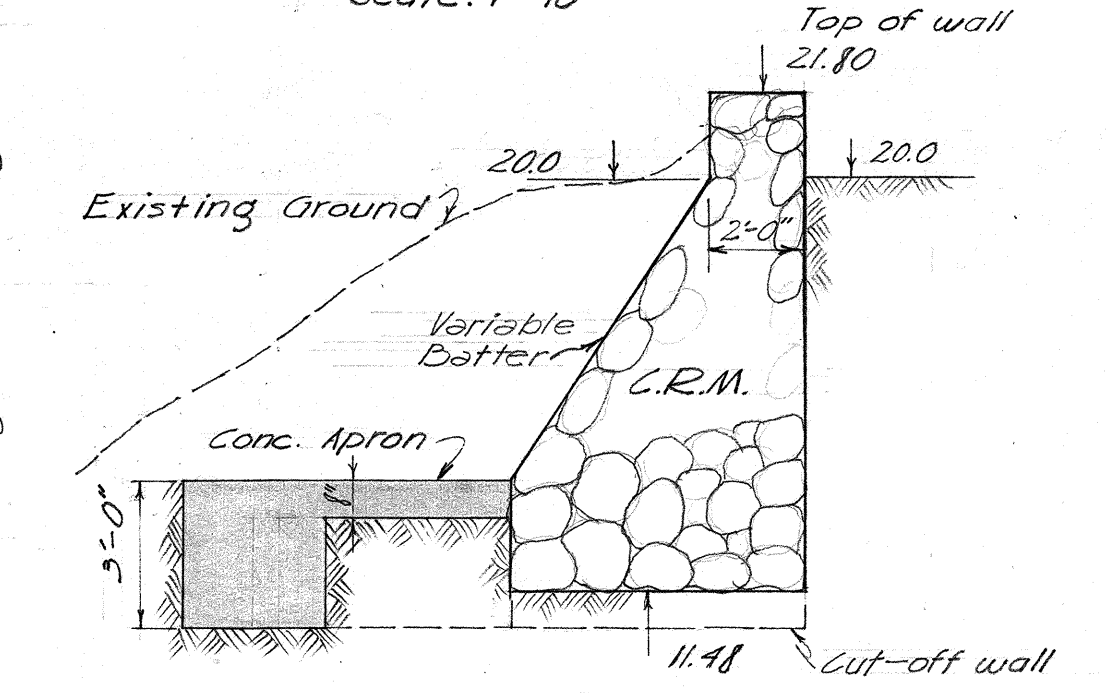


ELEVATION W.W. #3
Scale: 1" = 10'-0"

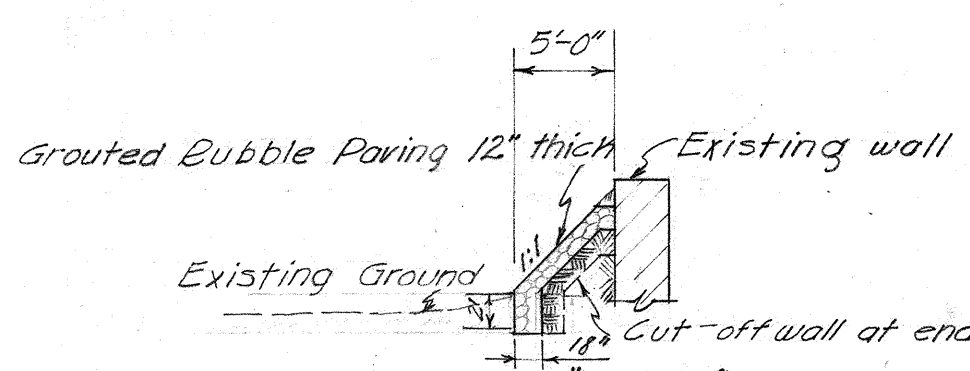
SECTION 'O-O'
Scale: 1" = 10'



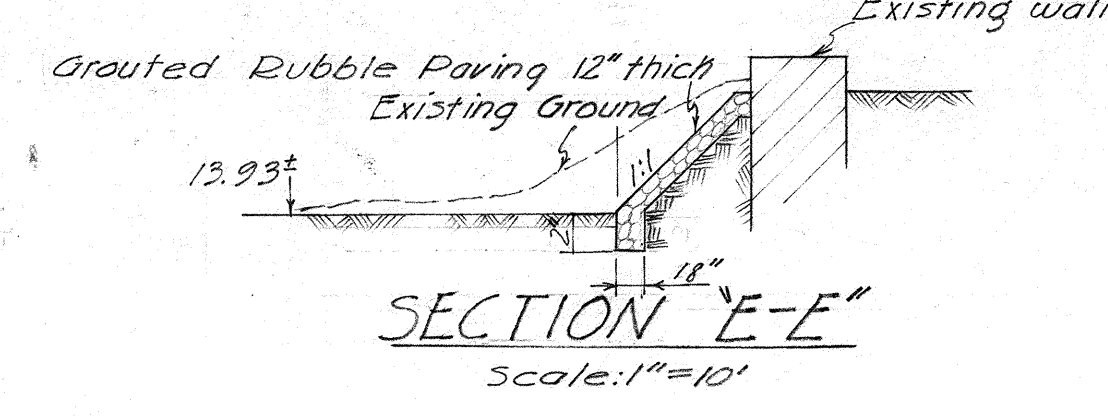
SECTION 'G-G'
Scale: 4" = 1'-0"



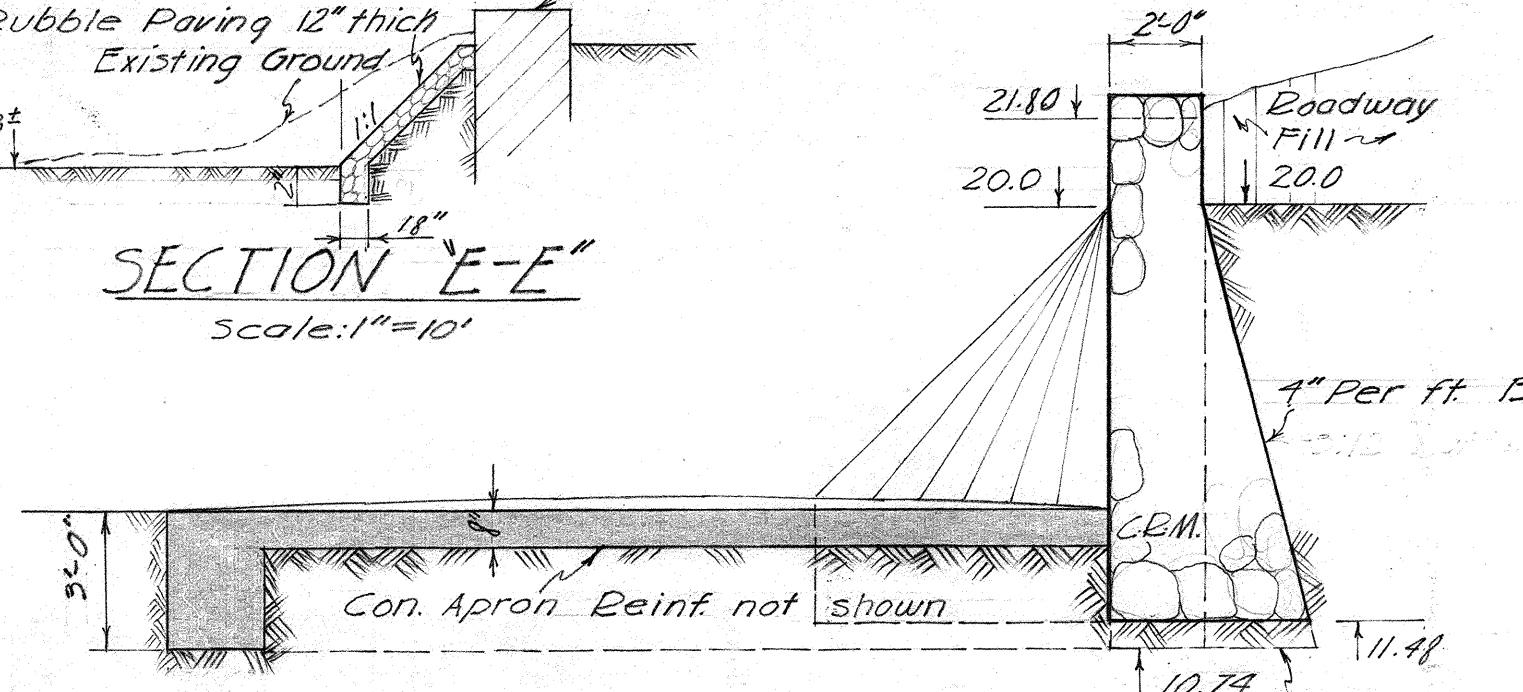
SECTION 'C-C'
Scale: 4" = 1'-0"



SECTION 'F-F'
Scale: 1" = 10'



SECTION 'E-E'
Scale: 1" = 10'



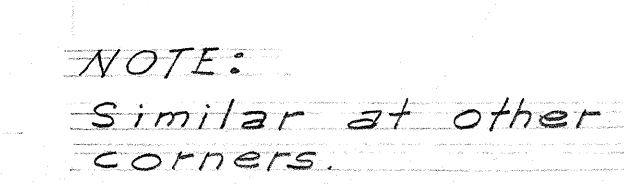
SECTION 'B-B'
Scale: 4" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
14'-6" x 8'-6" TWIN BOX CULVERT
Sta. 41+60.62 to Sta. 42+04.74
Lahaina - Wailuku Rd. Proj. F-030-1(1)
December 1955

SHEET NO. 2 OF 4 SHEETS

5795.26

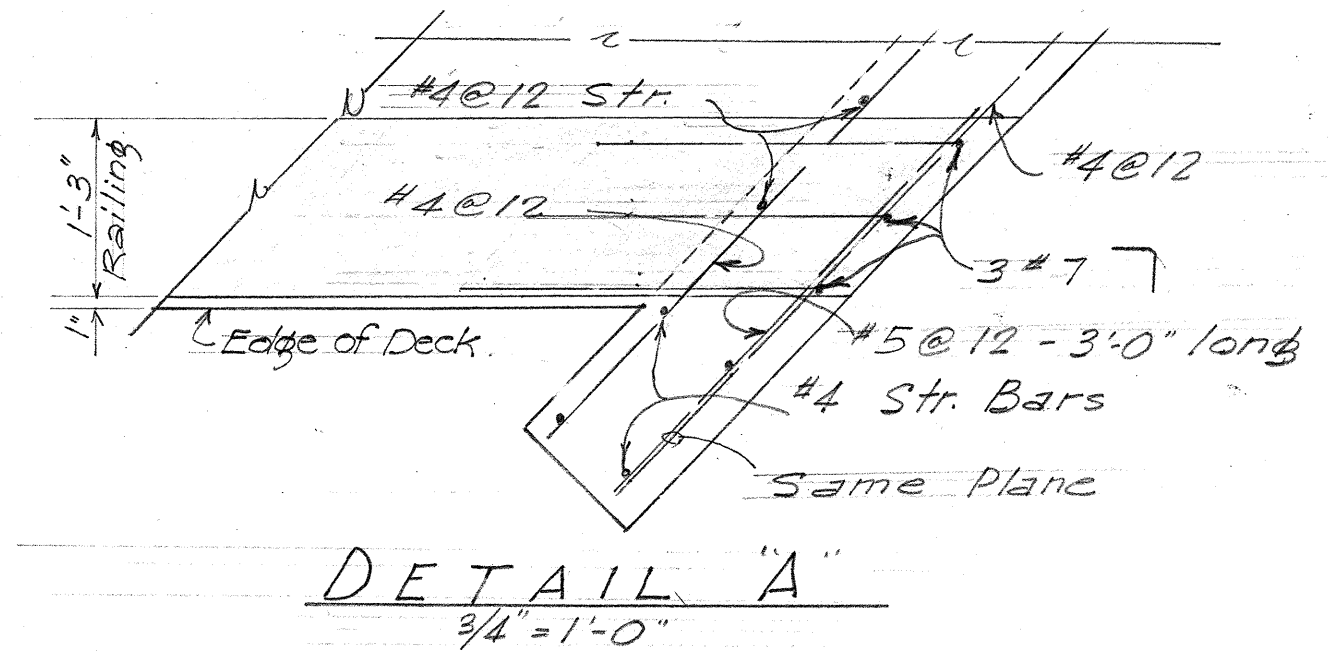
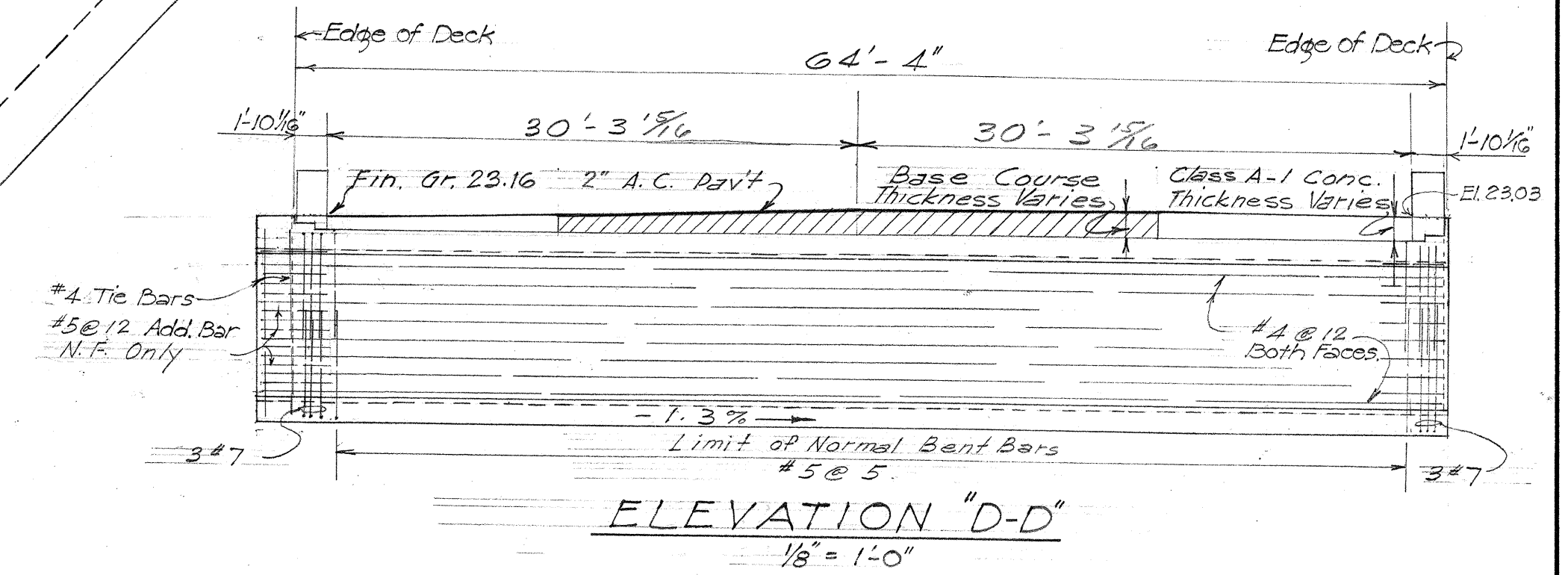
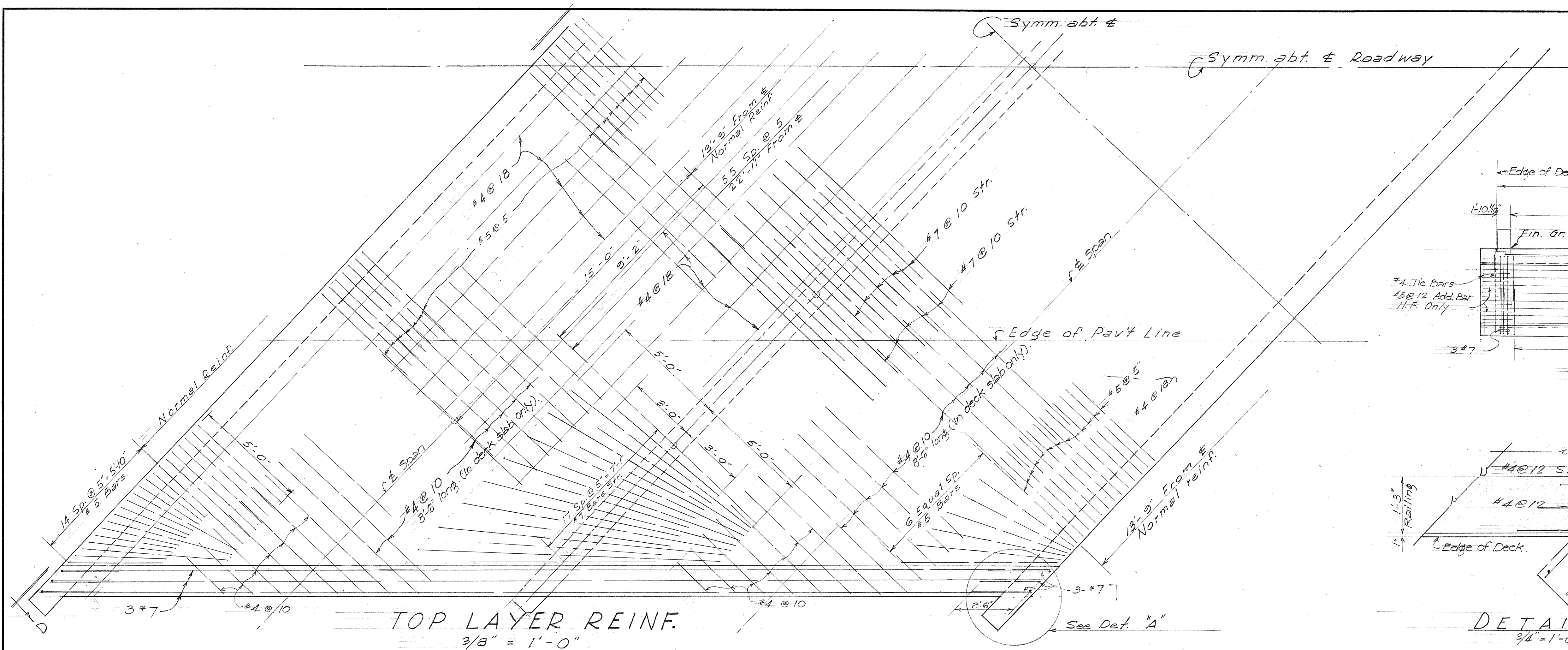
DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN: _____
NOTE BOOK: _____
No. _____



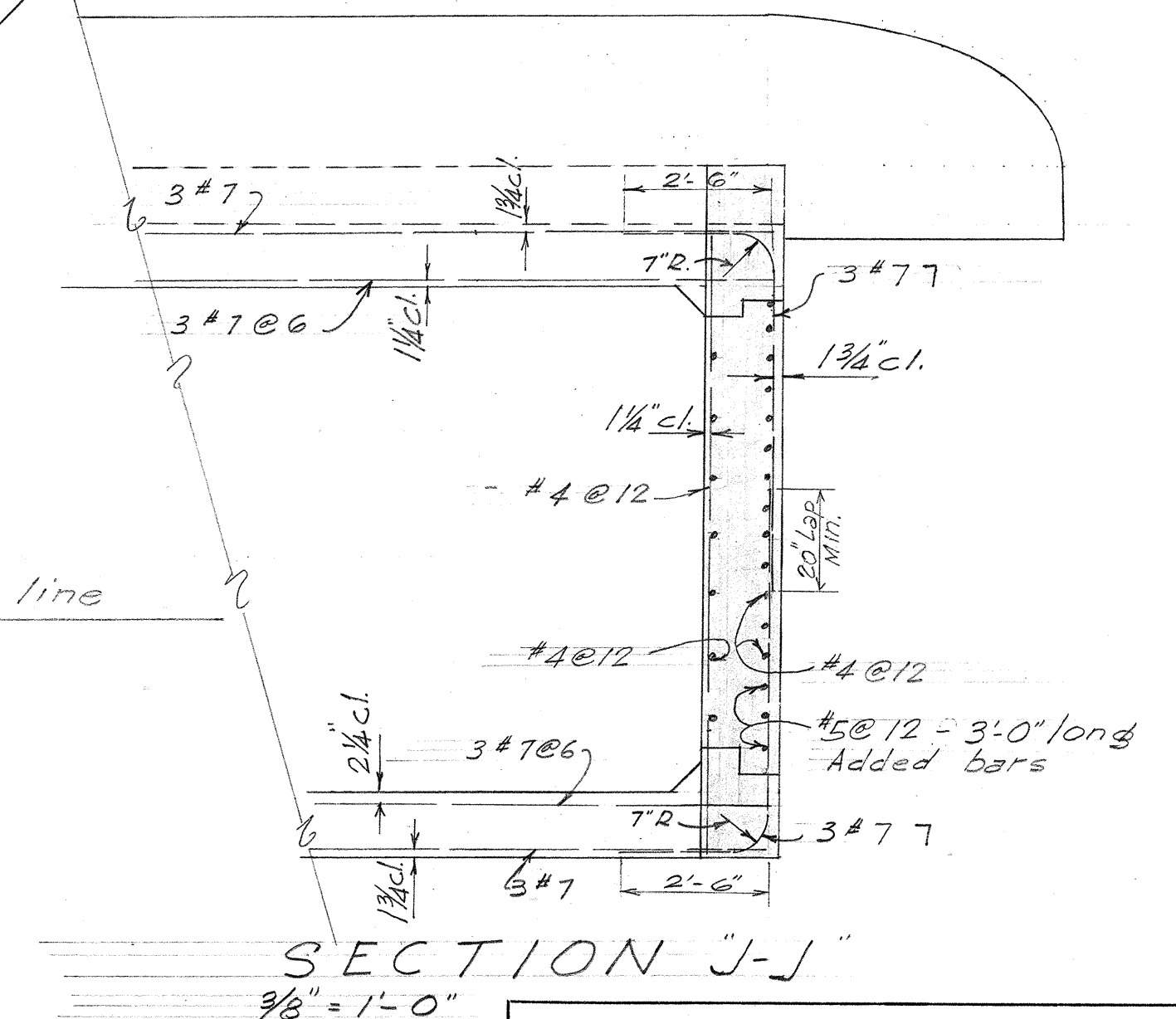
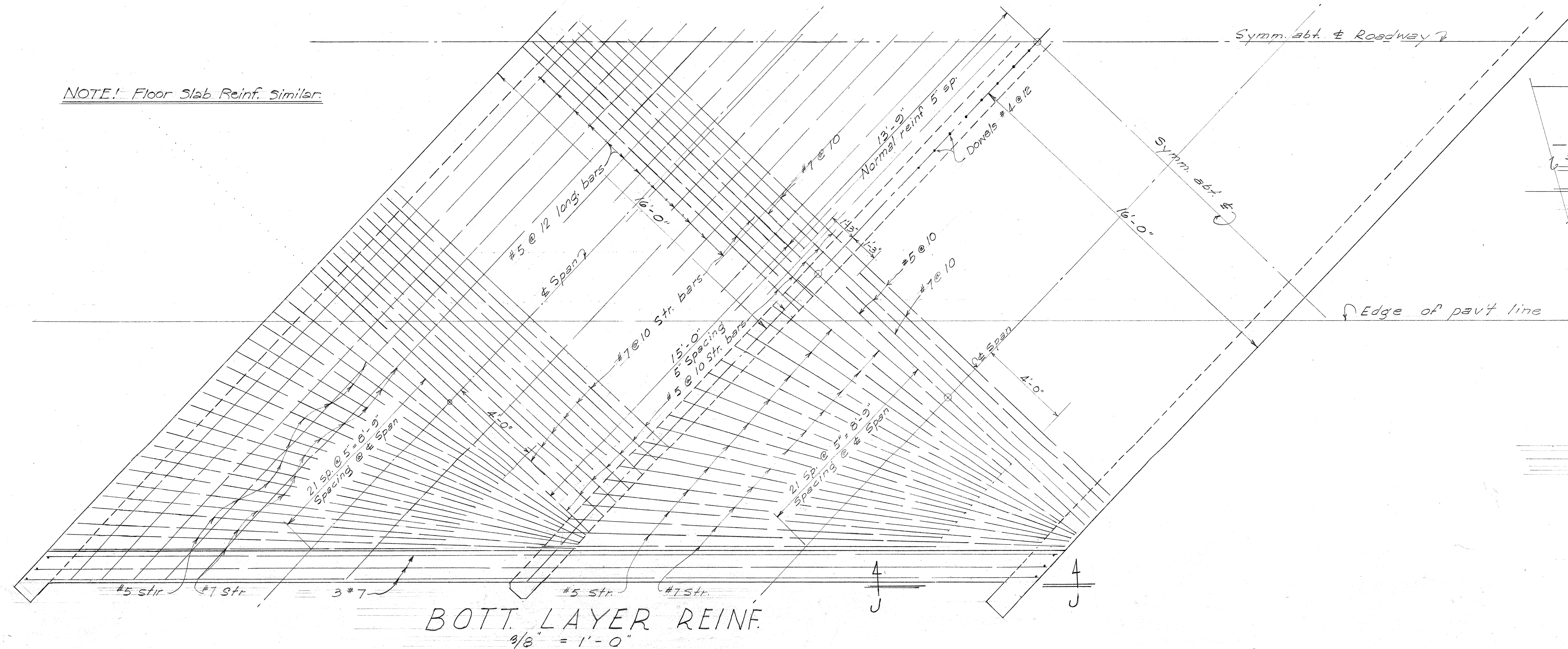
SHEET NO. 3 OF 4 SHEETS

5795.27

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F030-1(1)	1955	28	60



NOTE: Floor Slab Reinf. Similar.



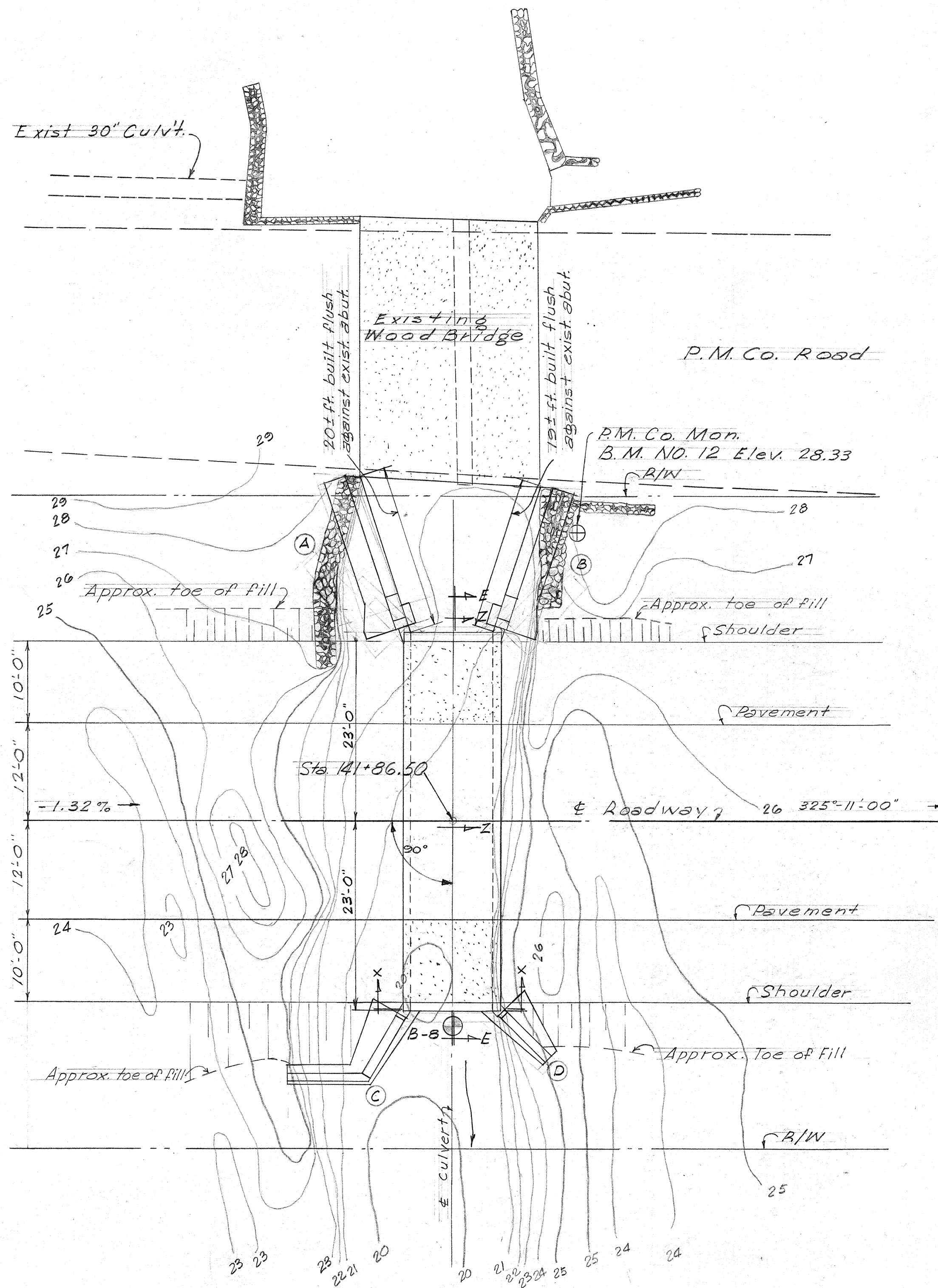
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
14'-6" x 8'-6" TWIN BOX CULVERT
Sta. 41+60.62 to Sta. 42+04.74

LAHAINA-WAILUKU RD. PROJ. F-030-1(1)
December 1955

SHEET NO. 4 OF 4 SHEETS

5795.28

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



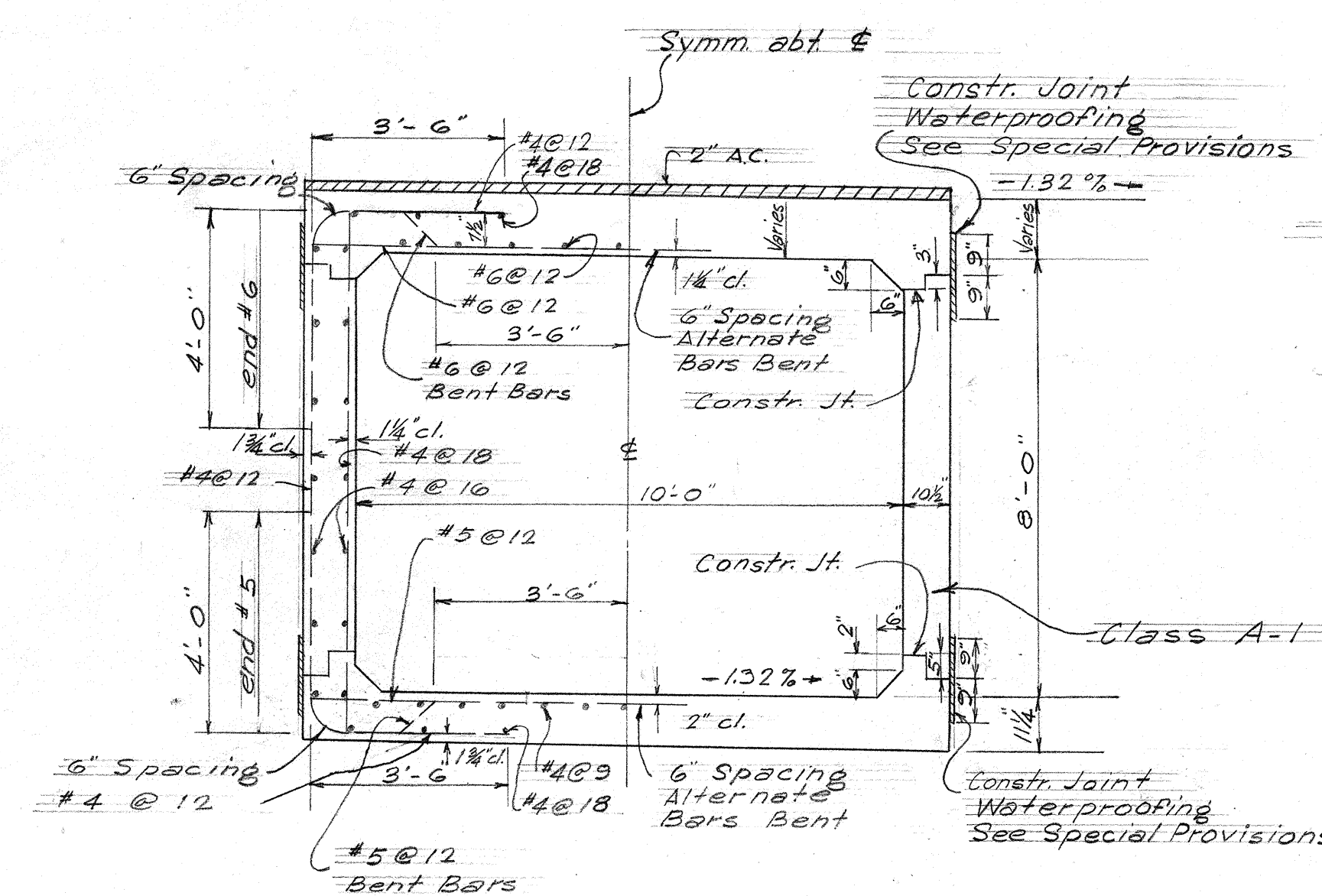
10' x 8' BOX CULVERT
STA. 141+86.50
SCALE: 1"=10'

ESTIMATED QUANTITIES

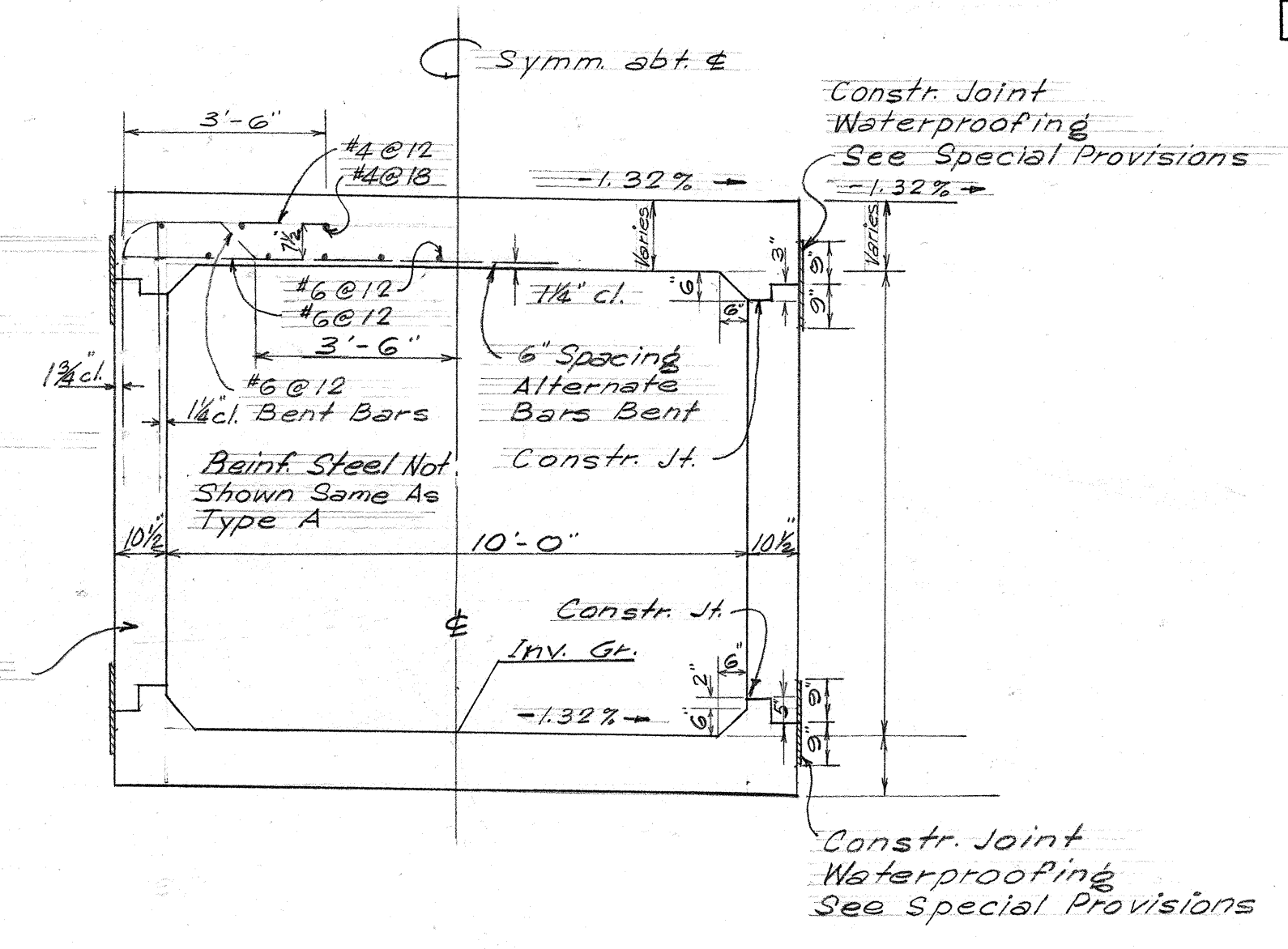
Concrete	- Lump Sum
Reinf. Steel	- Lump Sum
Str. Exc.	- 65.0 c.y. 88.1
C.R.M.	- 50.9 c.y. 54.2

BORING DATA

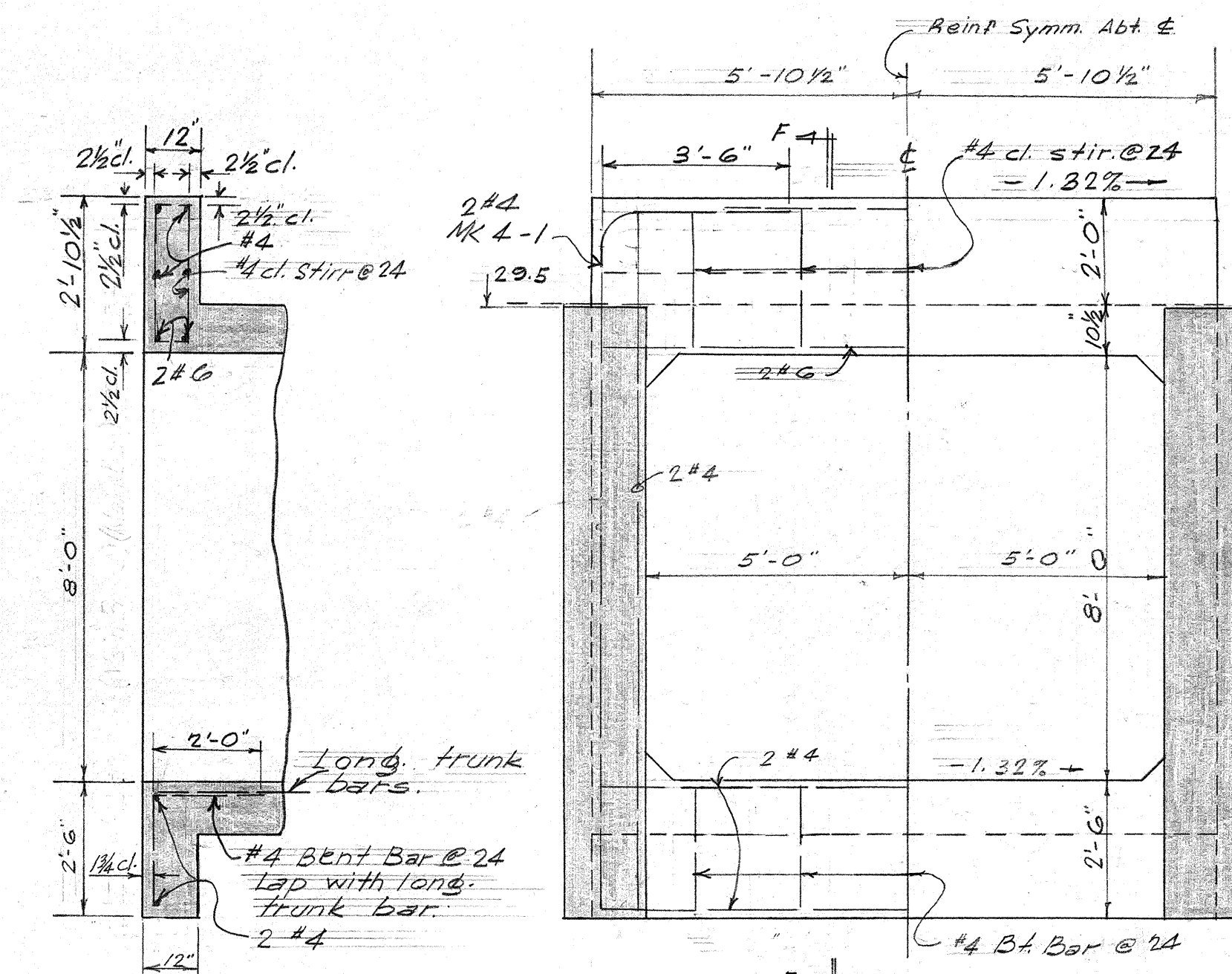
Vert. Scale: 1"=10'-0"



TYPICAL SECTION (TYPE A)
SCALE: 3/8"=1'-0"

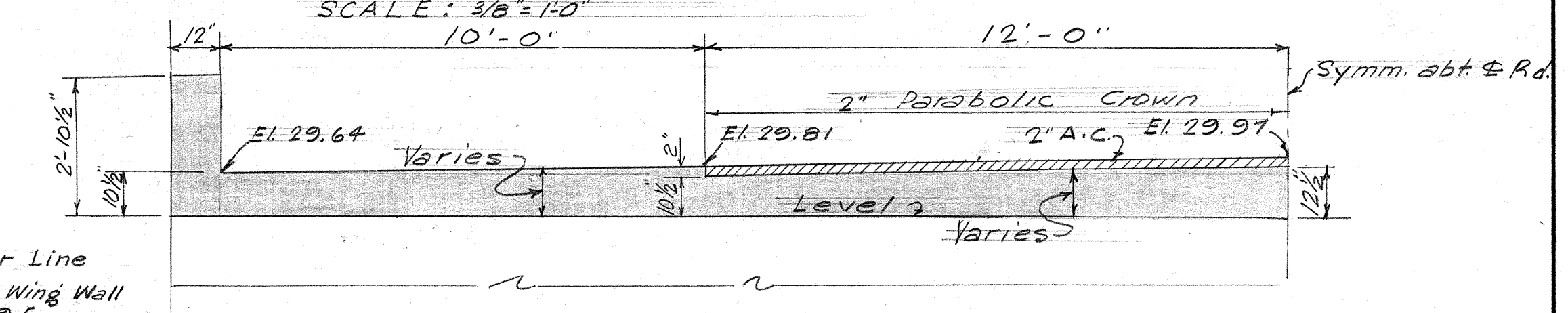


TYPICAL SECTION (TYPE B)
SCALE: 3/8"=1'-0"

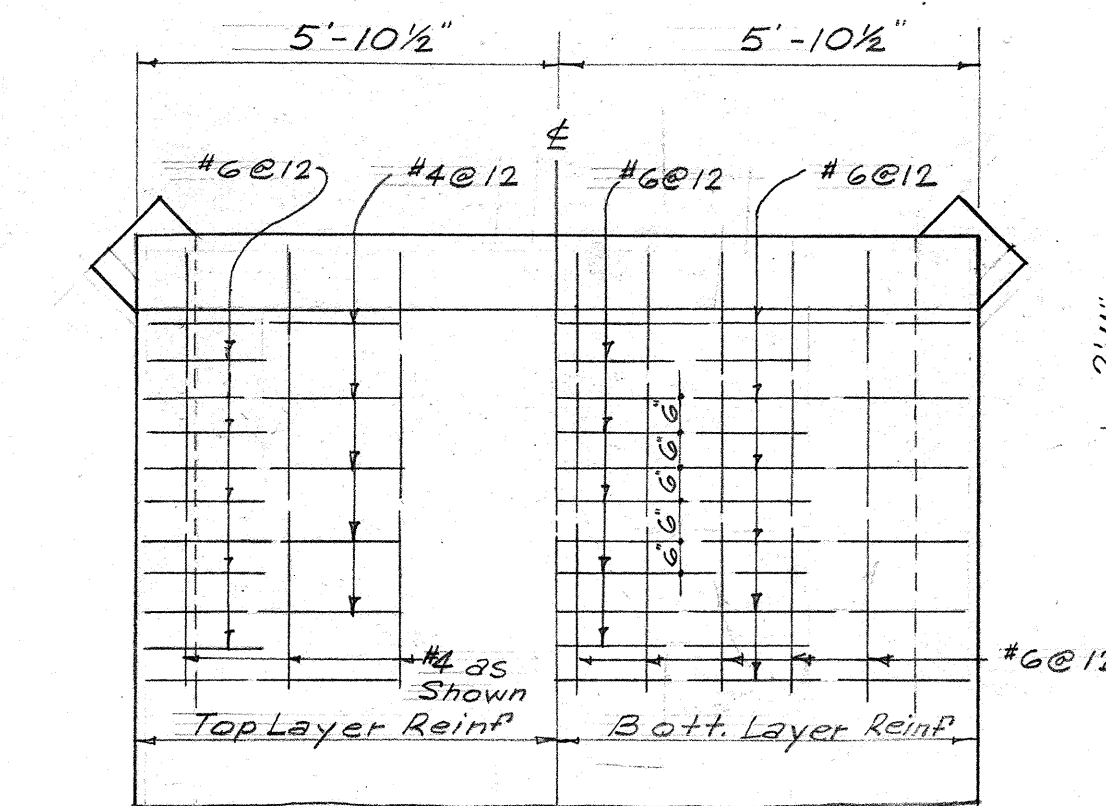


SECTION "F-F"
SCALE: 3/8"=1'-0"

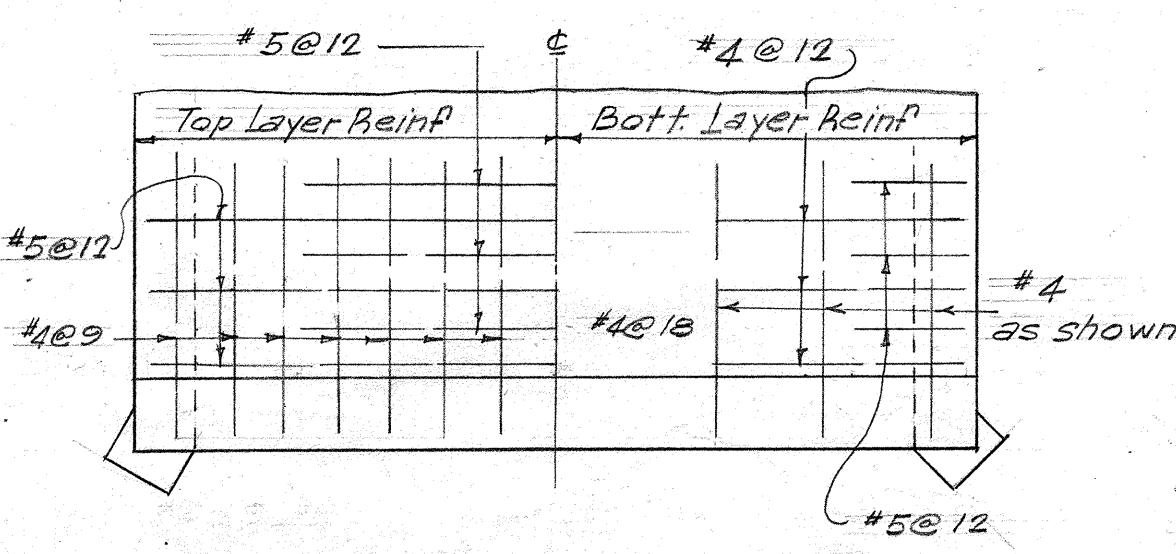
SECTION "X-X"
DETAIL OF OUTLET HEADWALL
(INTAKE H.W. SIMILAR)
SCALE: 3/8"=1'-0"



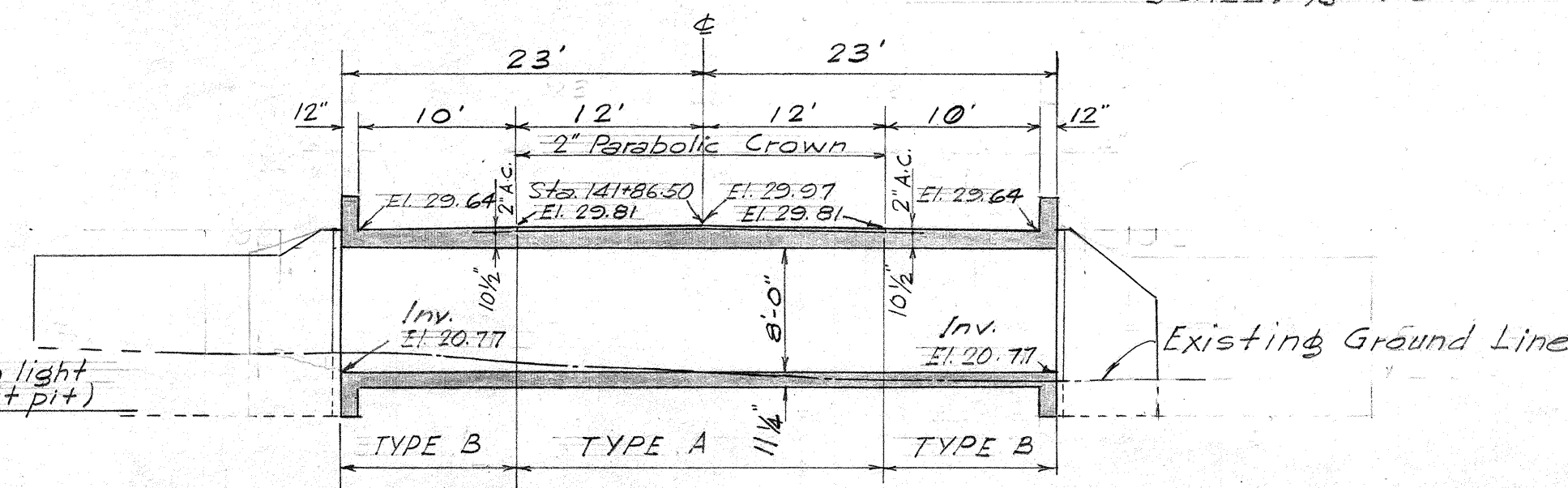
SECTION "Z-Z"
SCALE: 3/8"=1'-0"



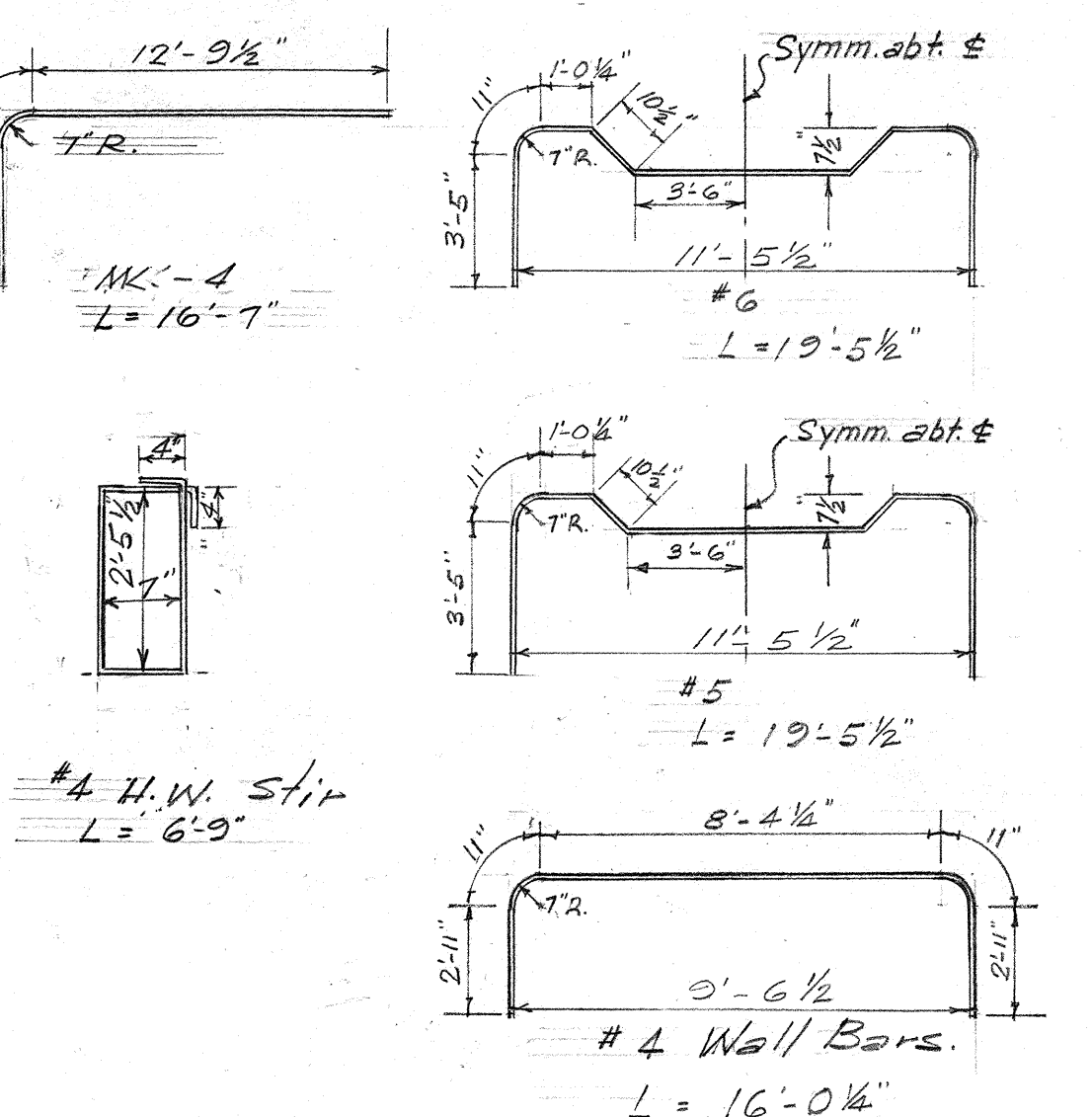
DECK SLAB REINF.
SCALE: 3/8"=1'-0"



FLOOR SLAB REINF.
SCALE: 3/8"=1'-0"



LONGITUDINAL SECTION "E-E"
SCALE: 1"=10'



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
10' x 8' CONC. BOX CULVERT
STA. 141+86.50

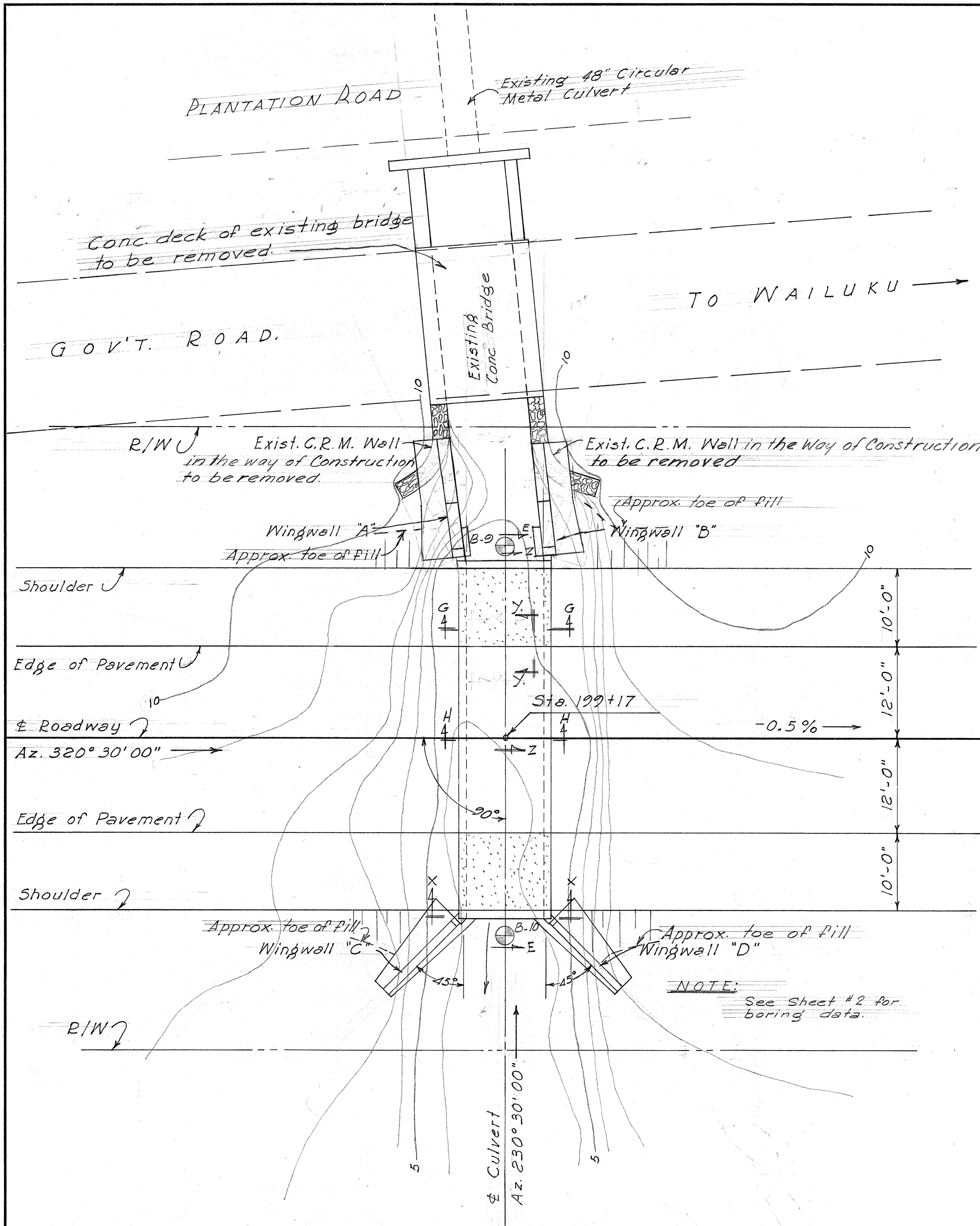
Lahaina-Wailuku Rd. F-030-1(1)
September 1955

SHEET NO. 1 OF 2 SHEETS

5795.29

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DESIGNED BY _____	" "
	DRAWN BY <i>J. MATSUI</i>	" "
	TRACED BY _____	" "
	QUANTITIES BY <i>E. TAMURA & M.</i>	" "
	QUANTITIES CHECKED BY _____	" "
	CHECKED BY _____	" "

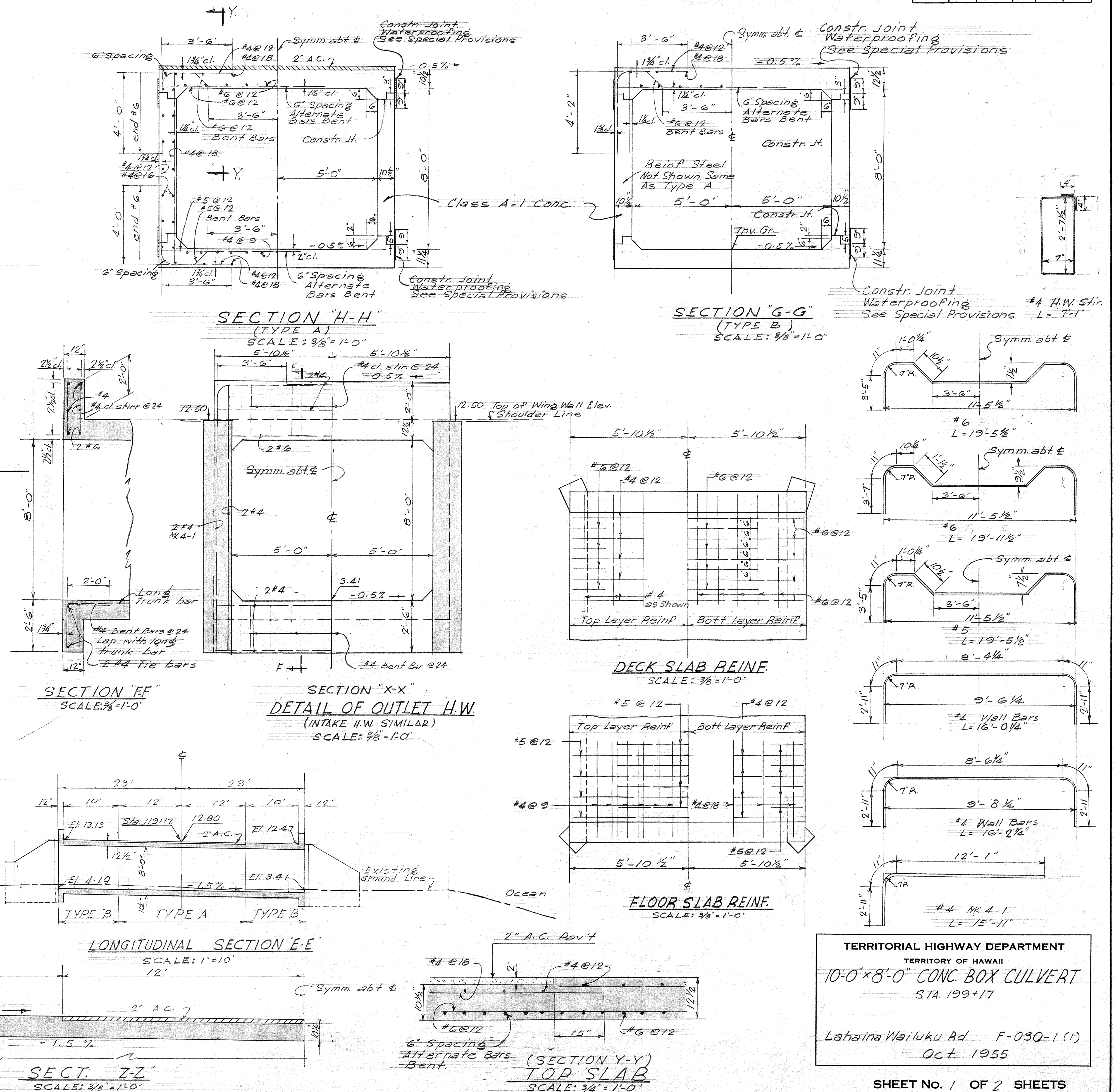
SHEET No. 2 OF 2 SHEETS



10'0" X 8'0" BOX CULVERT
Sta. 199 + 17
Scale ~ 1" = 10'0"

ESTIMATED QUANTITIES

Concrete — Lump Sum
Reinf. Steel. — Lump Sum
Str. Exc. — 97.0 c.y. 87.9
C. R. M. — 28.5 c.y. 28.4



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
10'0" X 8'0" CONC. BOX CULVERT
STA. 199+17

Lahaina Wailuku Ad. F-030-1(1)
Oct. 1955

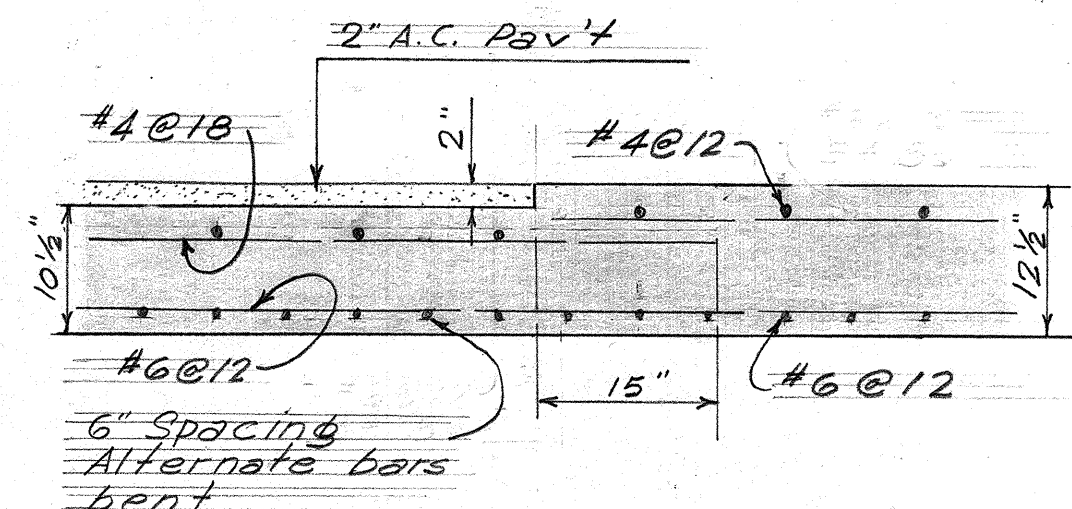
SHEET NO. 1 OF 2 SHEETS

5795.31

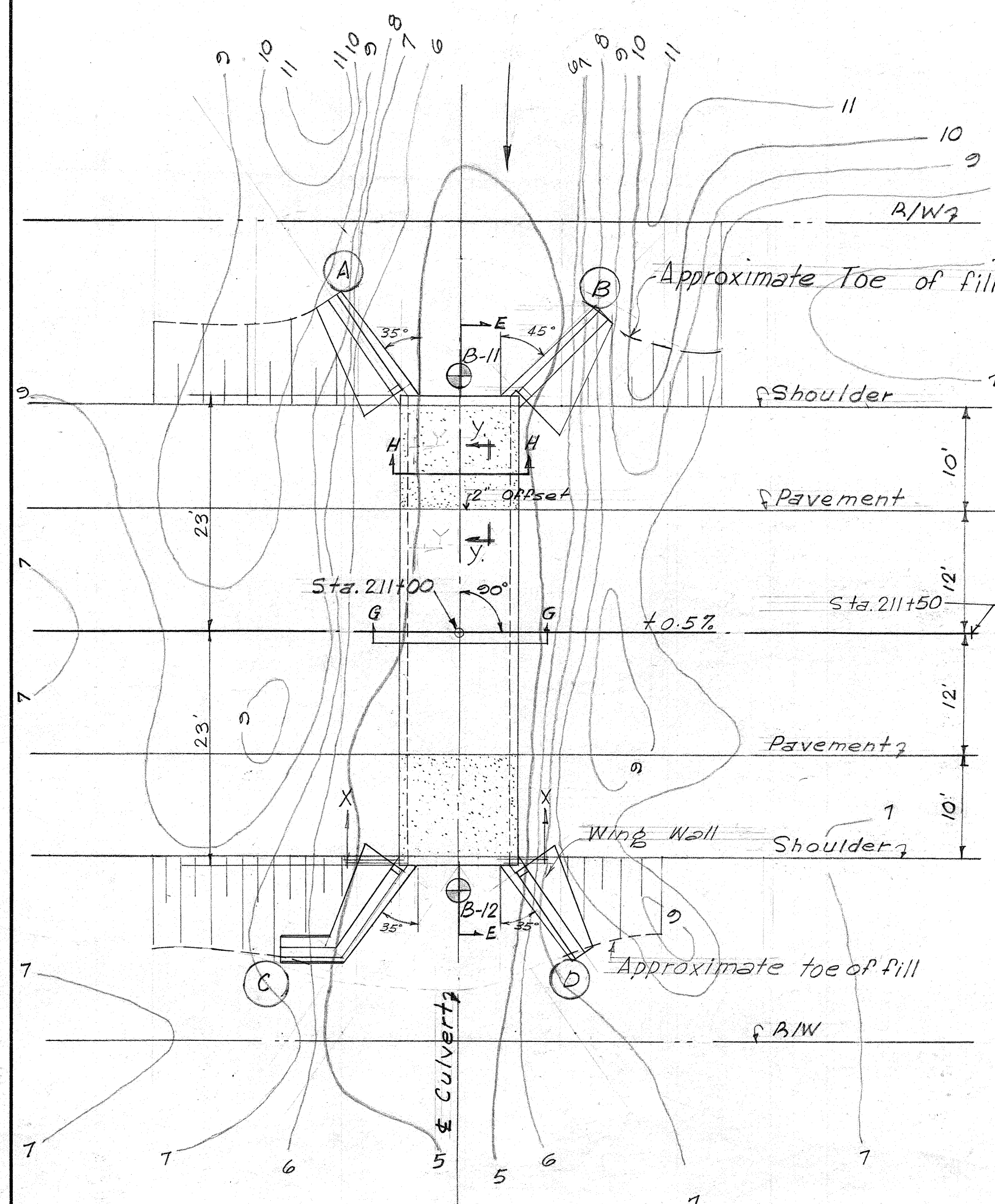
DATE: _____
SURVEY PLOTTED BY: _____
ORIGINAL PLAN: _____
DRAWN BY: _____
NOTED BY: _____
CHECKED BY: _____
NO. _____

CURVE DATA

Δ = 9° 37' 00"
D = 0° 30' 00"
A = 11,453.16'
T = 963.93'
L = 1,923.33'
C = 1,921.08'
ST = 0.015' / FT.

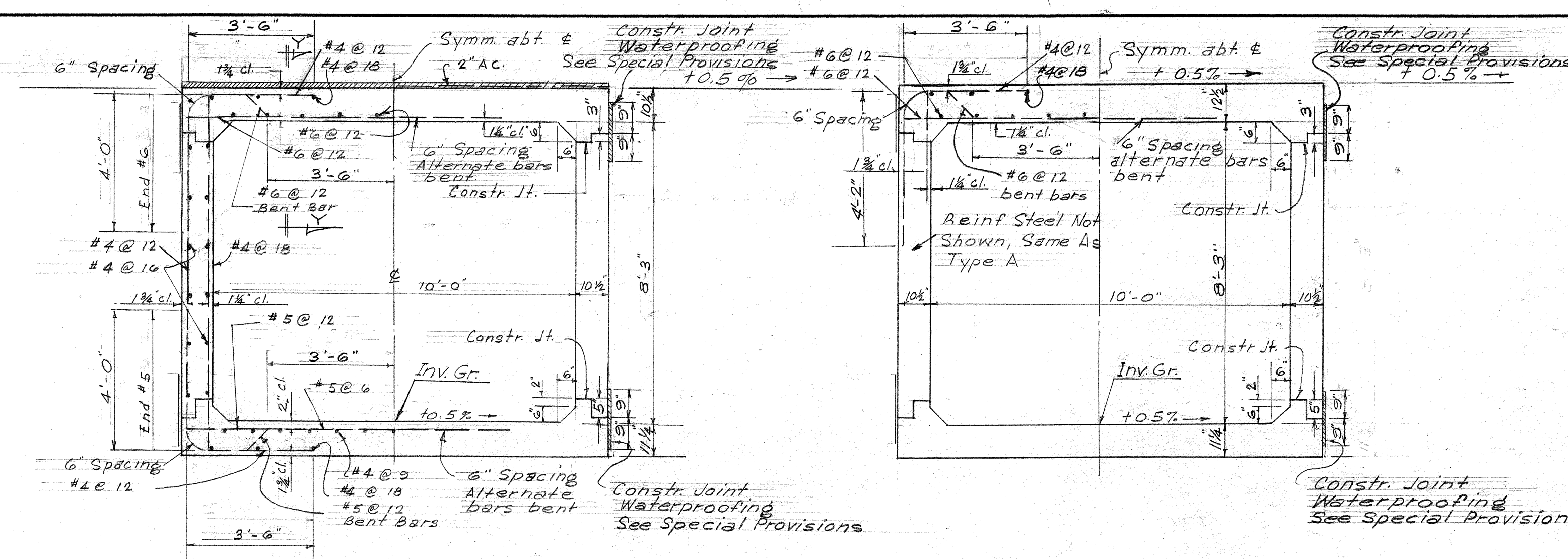


(SECT. Y-Y)
TOP SLAB
SCALE: 3/4" = 1'-0"



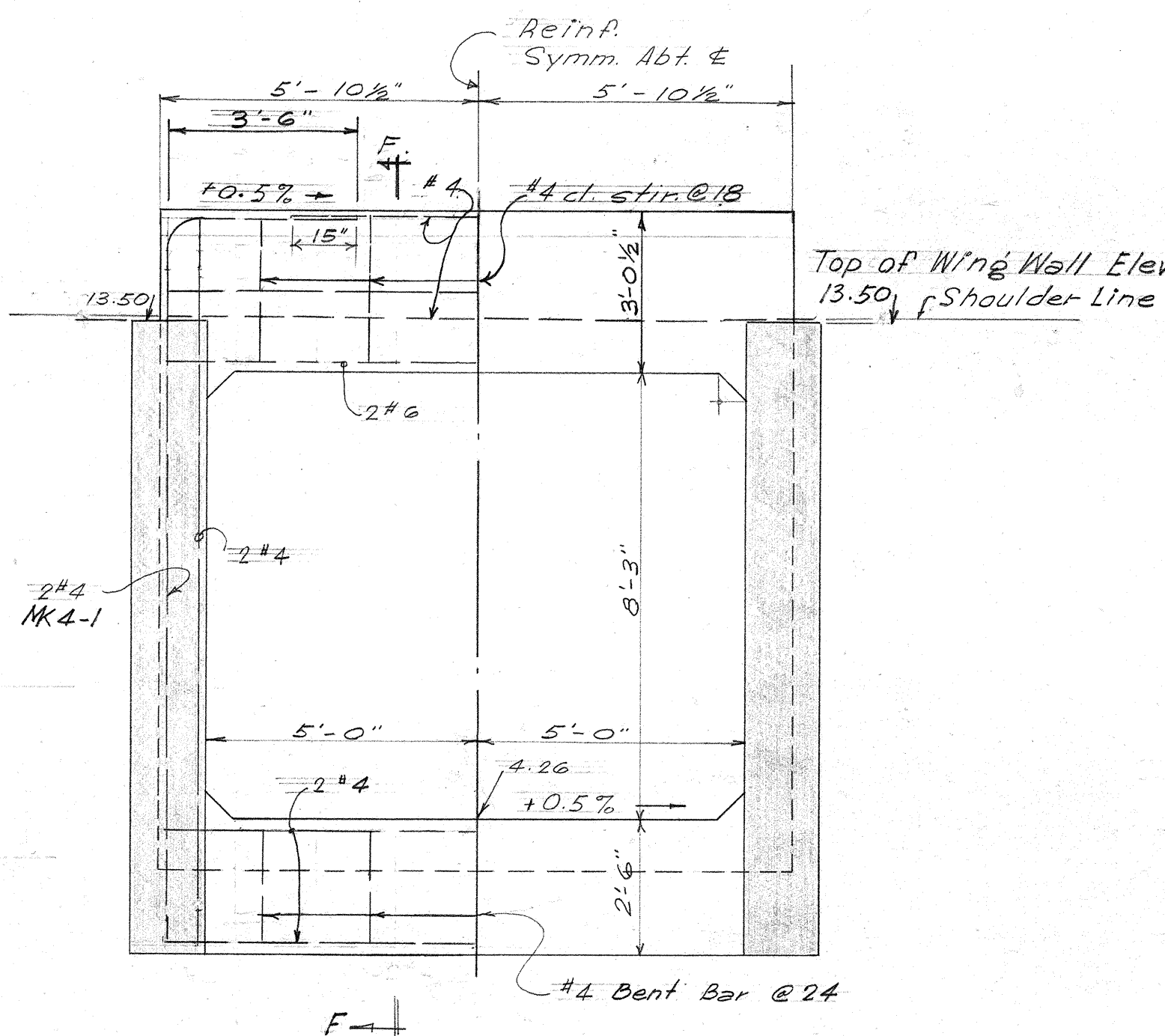
10' x 8'-3" BOX CULVERT
STA. 211+00
SCALE: 1" = 10'

NOTE:
See Sheet #2 for
boring data.

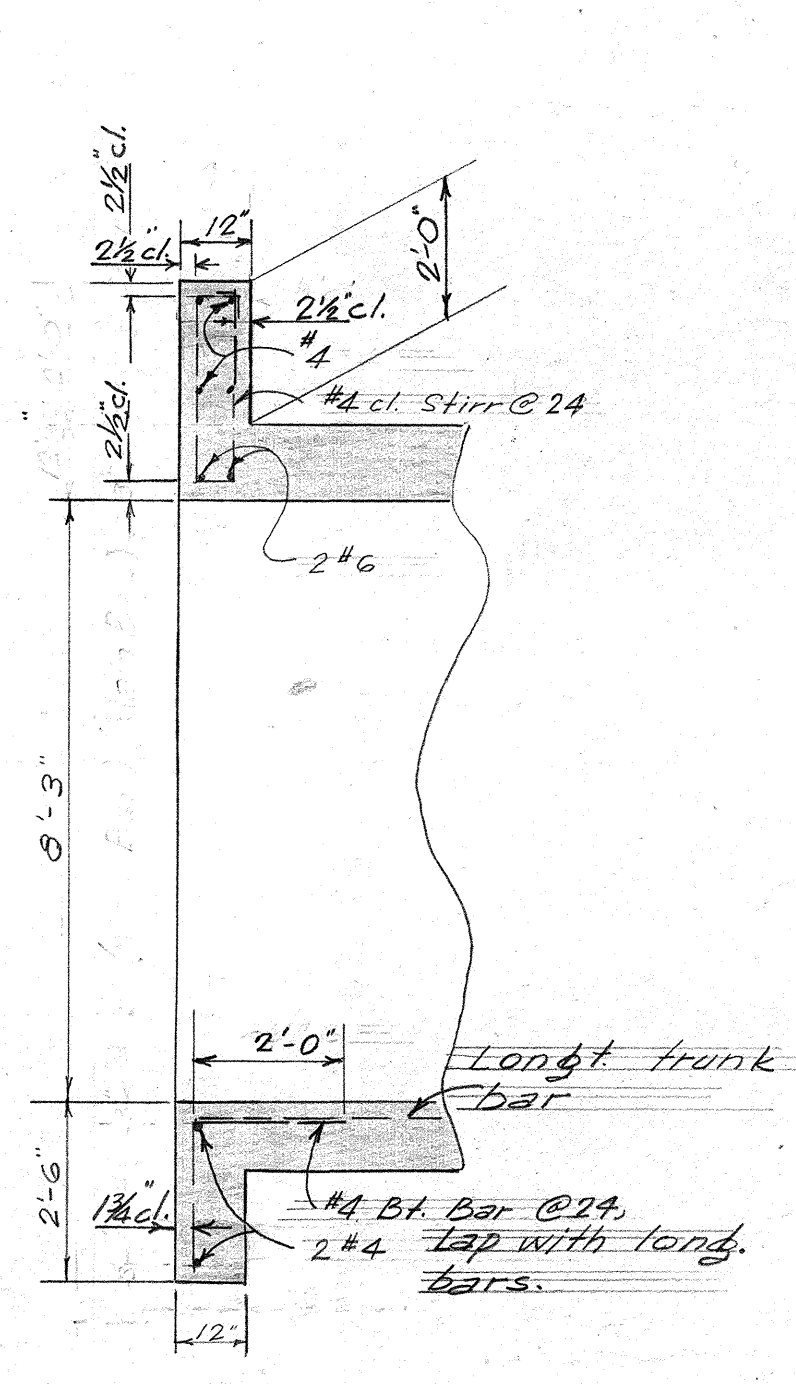


SECTION "G-G"
(TYPE A)
SCALE: 3/8" = 1'-0"

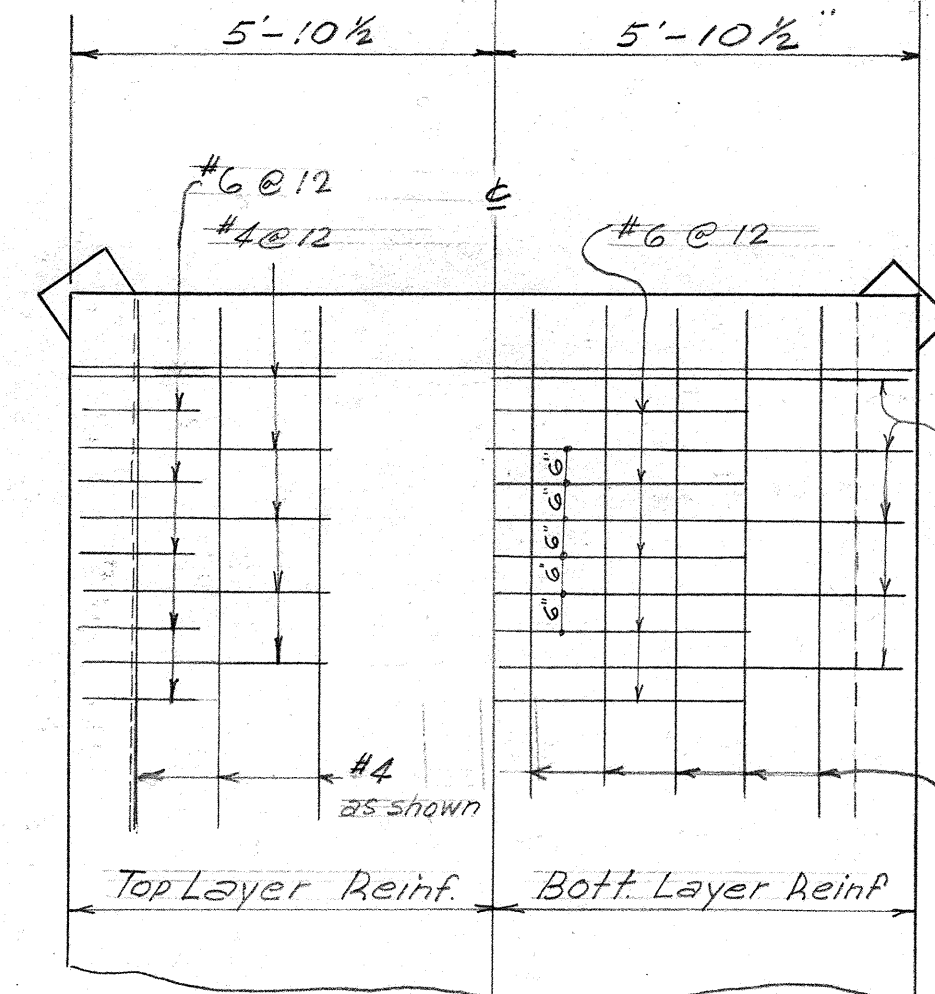
SECTION "H-H"
(TYPE B)
SCALE: 3/8" = 1'-0"



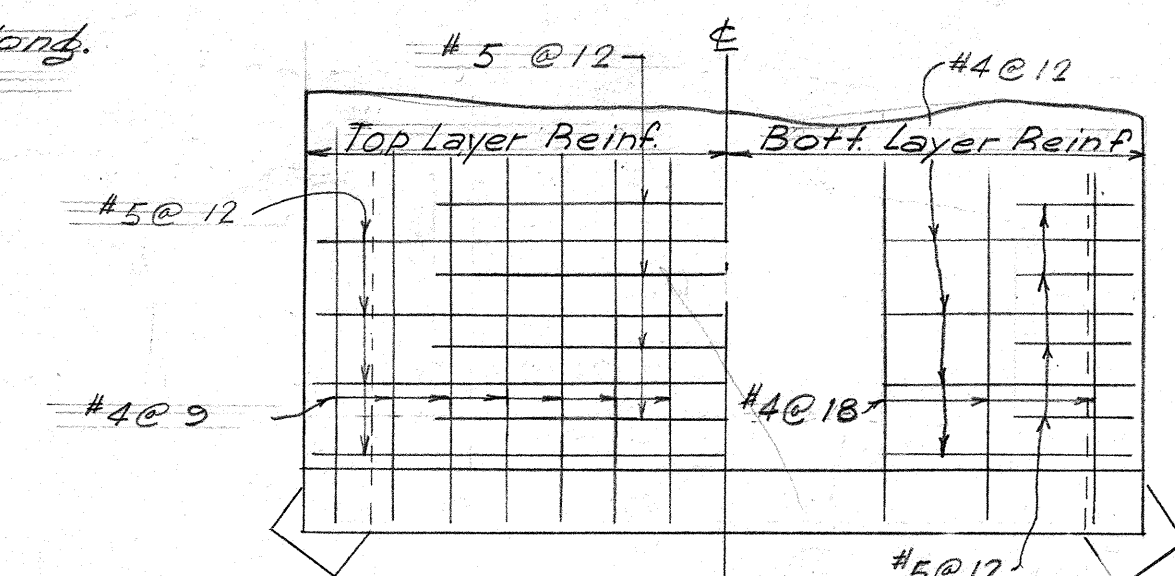
SECTION "X-X"
DETAIL OF OUTLET HEADWALL
(INTAKE H.W. SIMILAR)
SCALE: 3/8" = 1'-0"



SECTION "E-E"



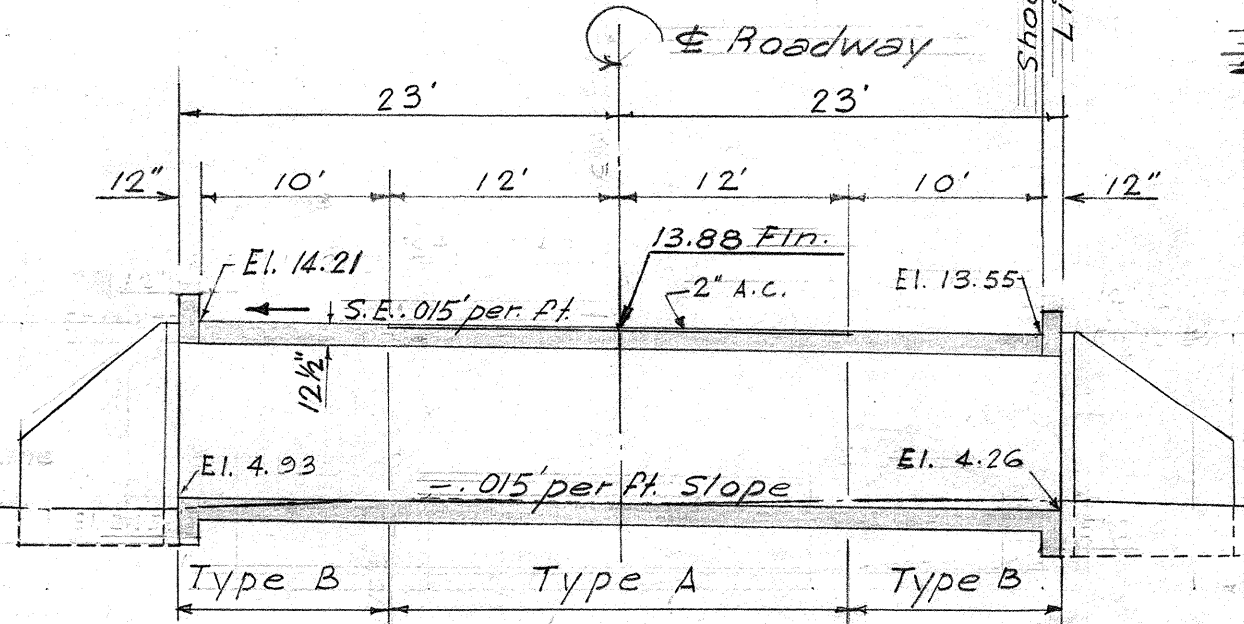
DECK SLAB REINF.
SCALE: 3/8" = 1'-0"



FLOOR SLAB REINF.
SCALE: 3/8" = 1'-0"

ESTIMATED QUANTITIES

Concrete - Lump Sum
Reinf. Steel - Lump Sum
Str. Exc. - 51.0 c.y. 70.1



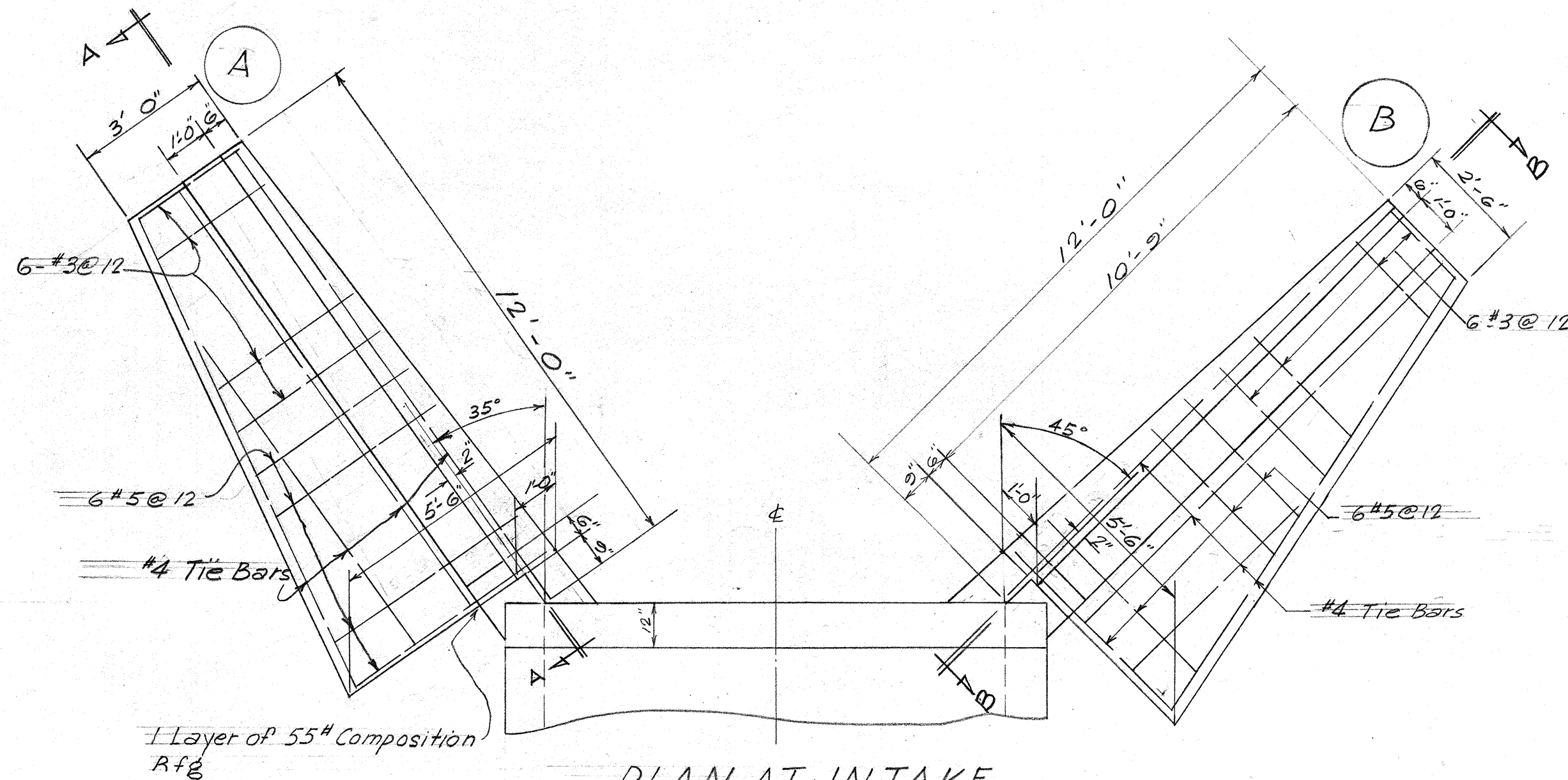
LONGITUDINAL SECTION "E-E"
SCALE: 1" = 10'

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	F-030-1(1)	1955	33	60

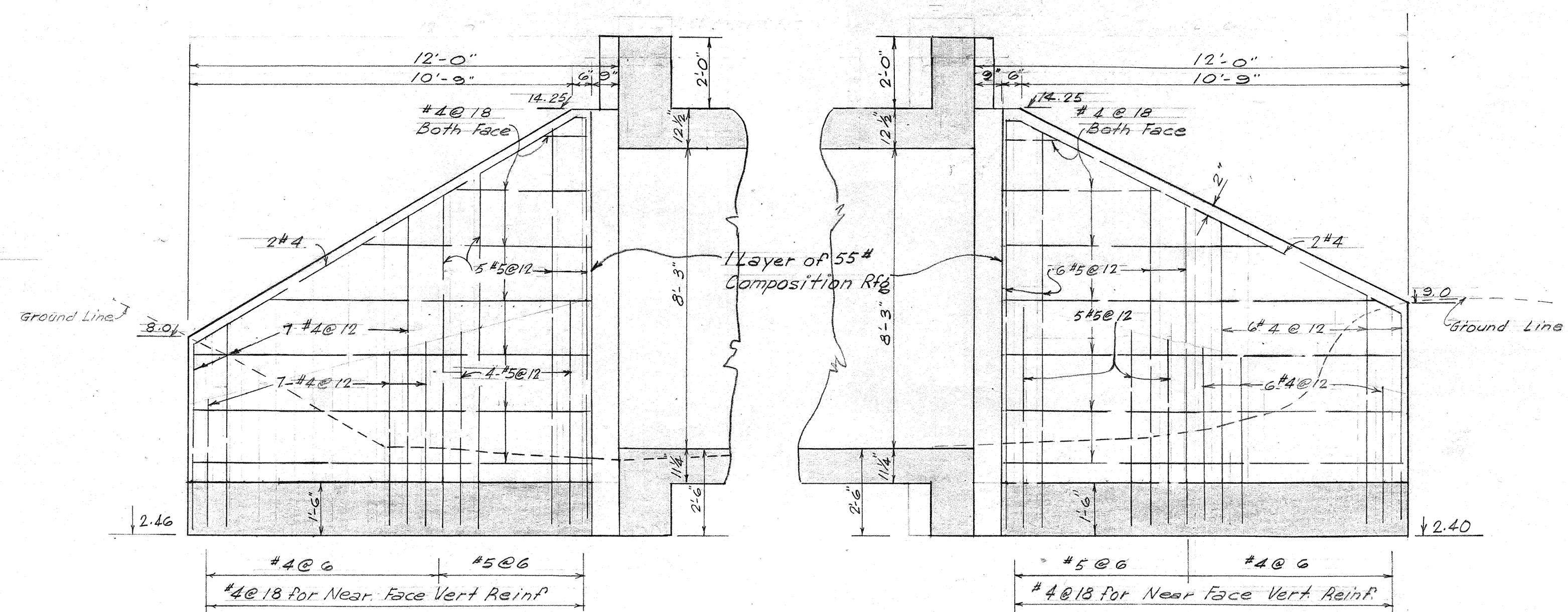
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
10' x 8'-3" CONC. BOX CULVERT
Sta. 211+00
Lahaina - Wailuku Rd. F-030-1(1)
September 1955

SHEET No. 1 OF 2 SHEETS

5795.33

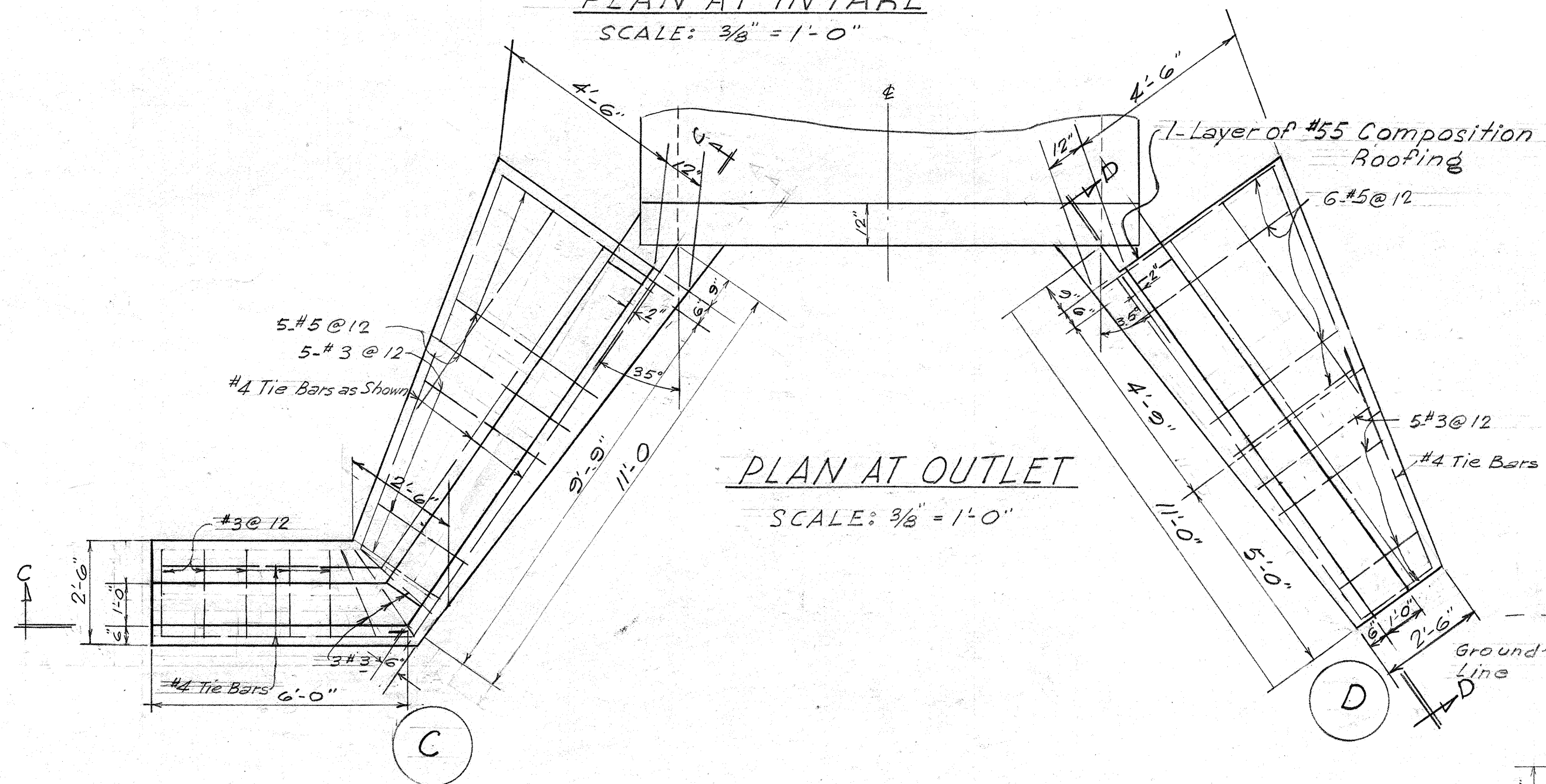


PLAN AT INTAKE
SCALE: 3/8" = 1'-0"

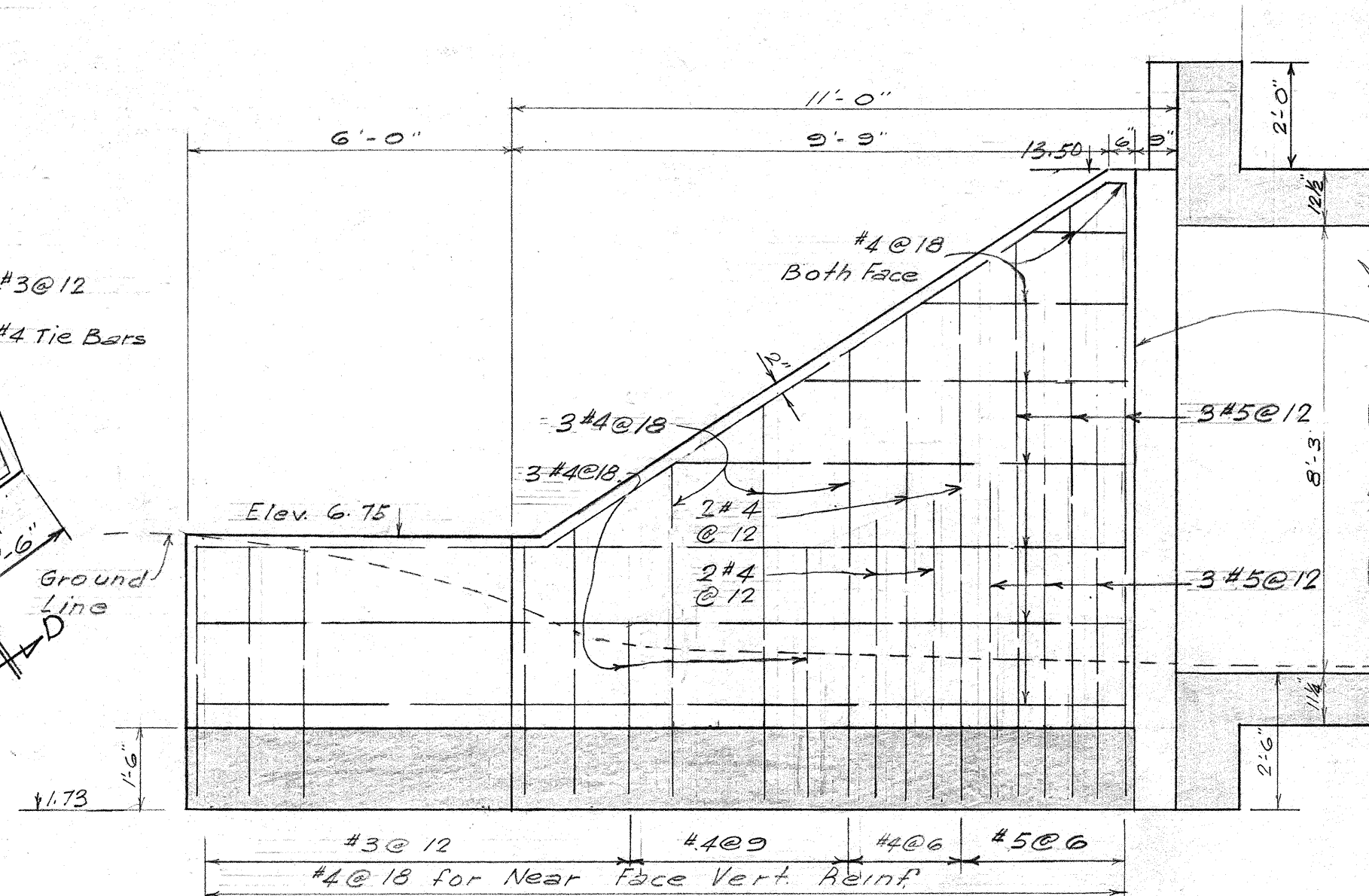


(SECTION "B-B")
ELEV. WING WALL B
SCALE: 3/8" = 1'-0"

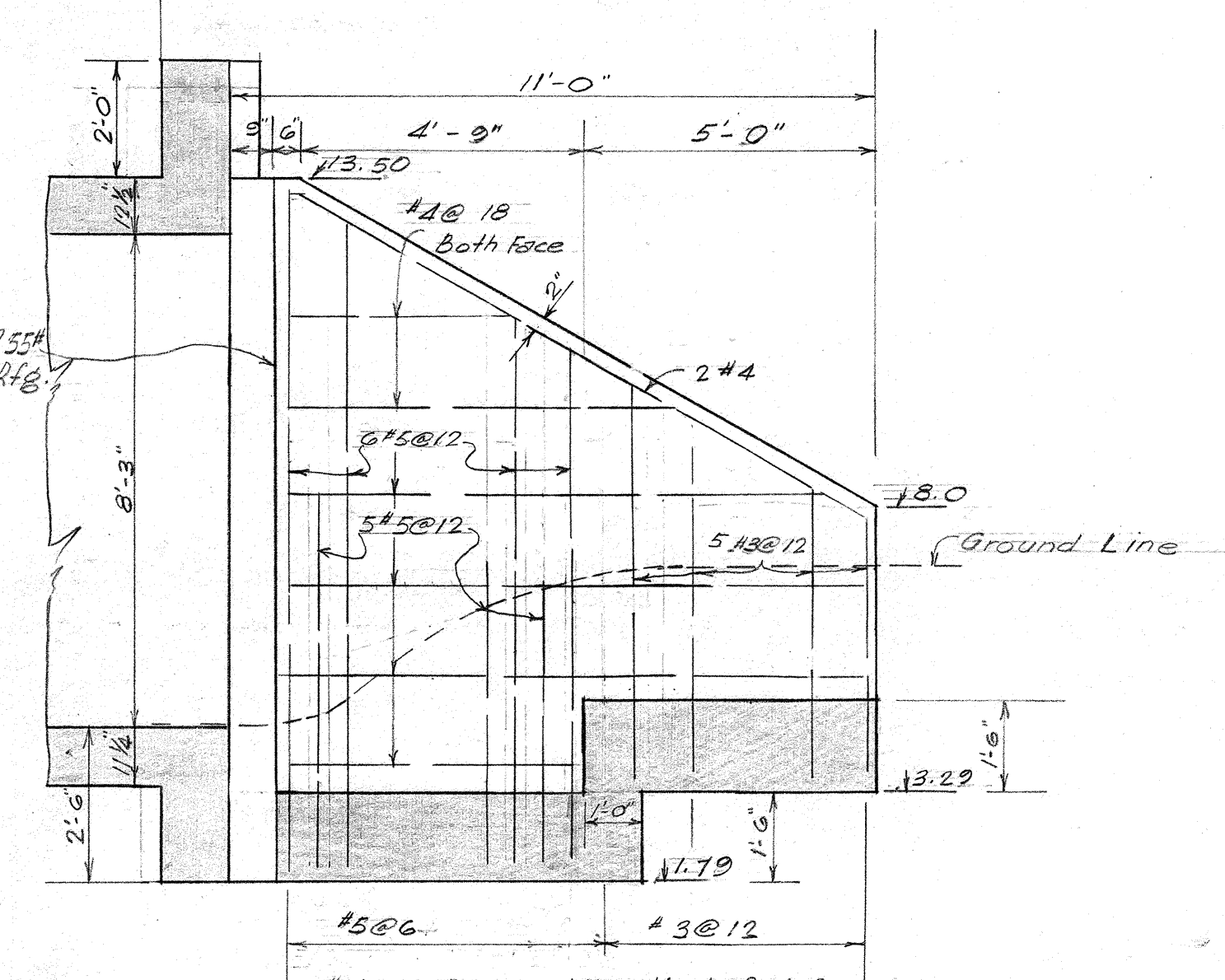
(SECTION "A-A")
ELEV. WING WALL A
SCALE: 3/8" = 1'-0"



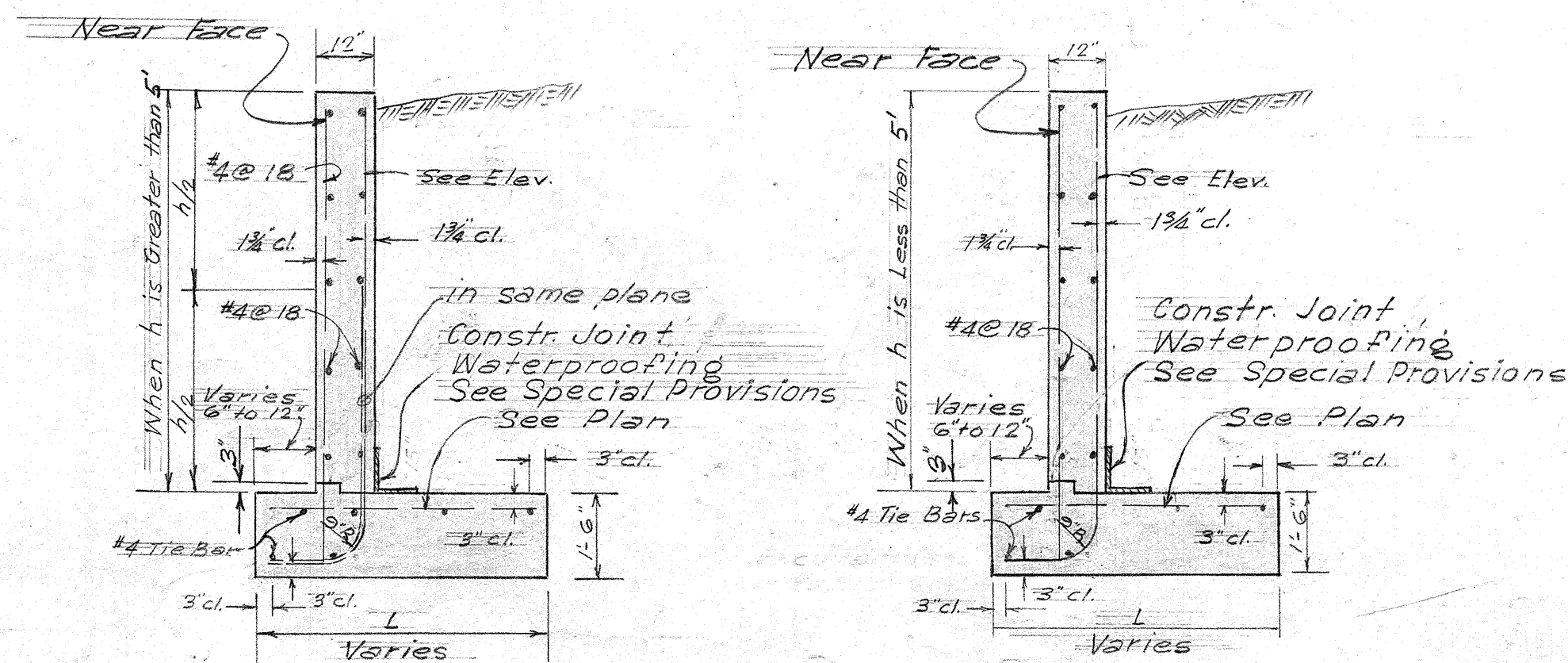
PLAN AT OUTLET
SCALE: 3/8" = 1'-0"



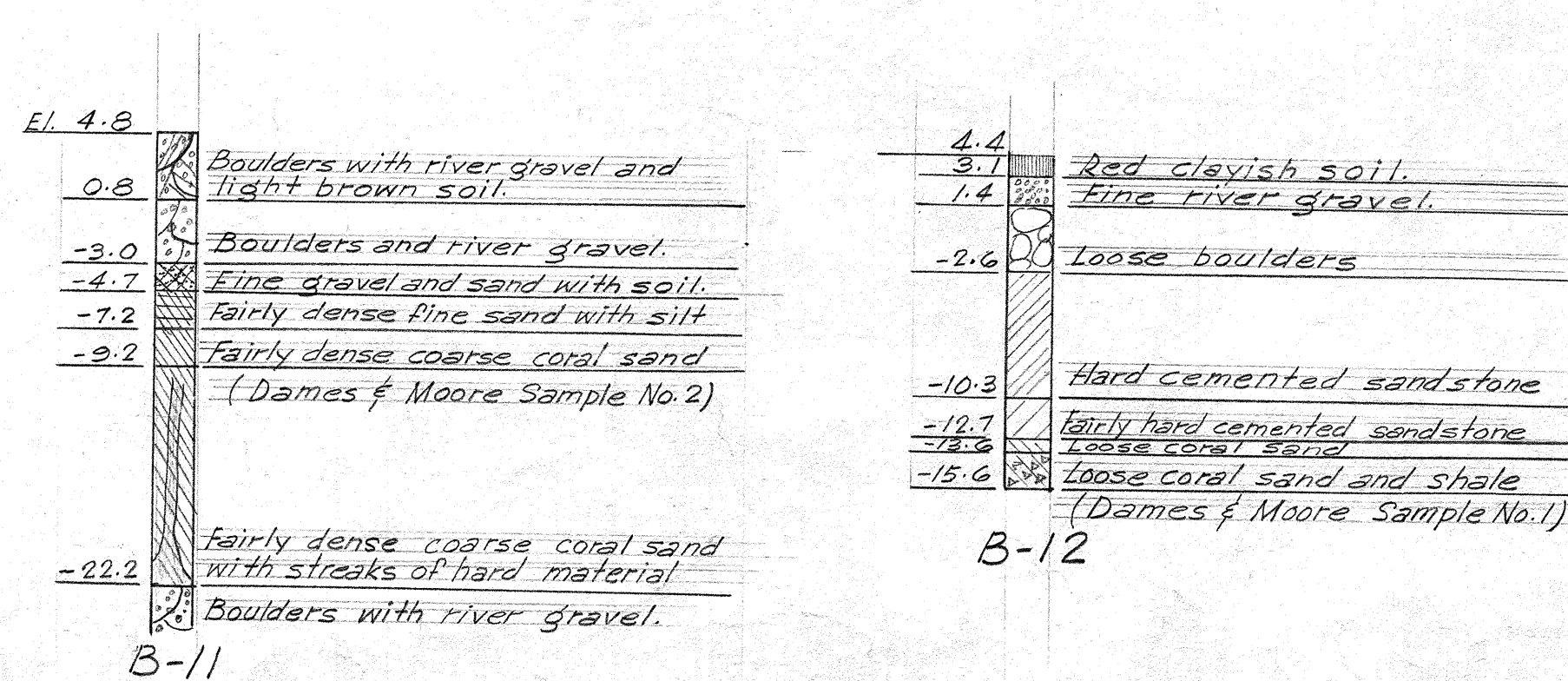
(SECTION "C-C")
ELEV. WING WALL C
SCALE: 3/8" = 1'-0"



(SECTION "D-D")
ELEV. WING WALL D
SCALE: 3/8" = 1'-0"



TYPICAL SECTION WING WALLS
SCALE: 3/8" = 1'-0"



BORING DATA

NOTE: See Sheet #1 for location of borings

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
10'x8'-3" CONC. BOX CULVERT
Sta. 211+00

Lehaina-Wailuku Rd. F-030-1(1)
September 1955

SHEET NO. 2 OF 2 SHEETS

5795.34

ORIGINAL PLAN
DRAWN BY H. H. TULLI
CHECKED BY
NOTE BOOK
No.