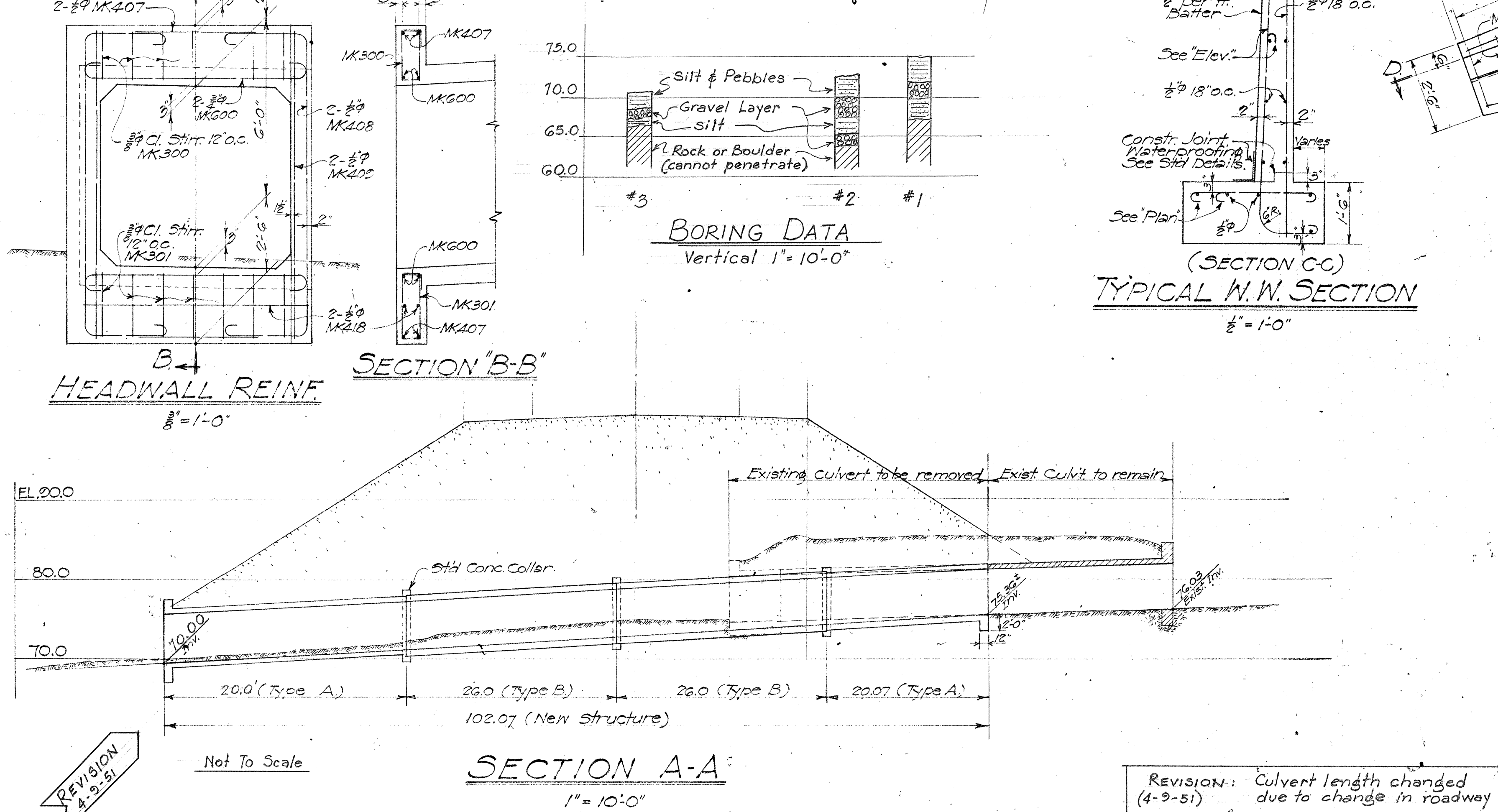
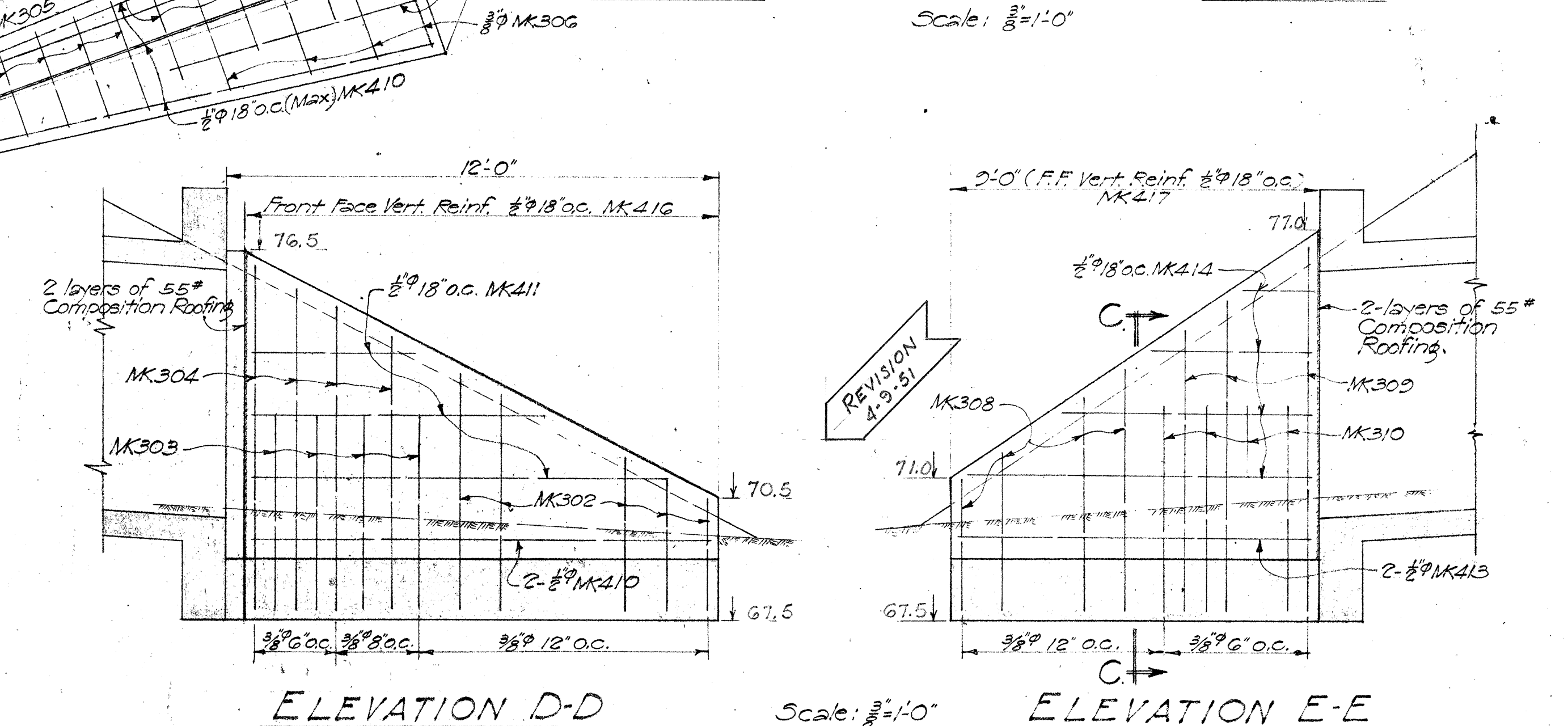
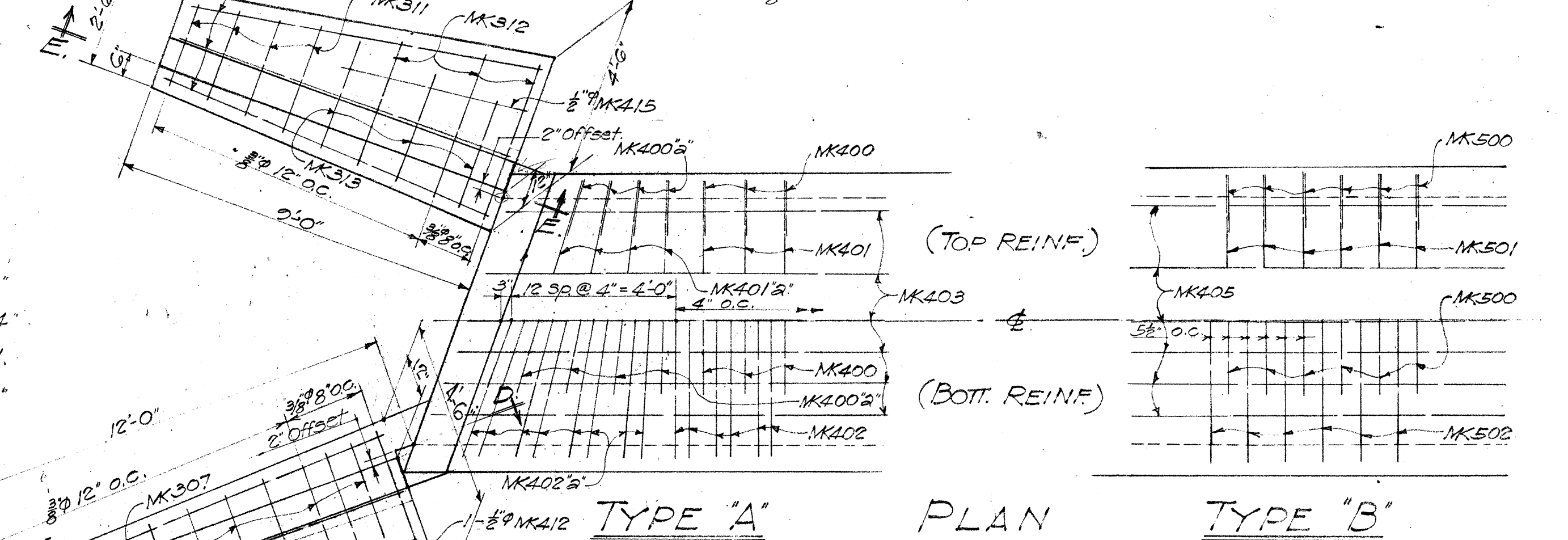
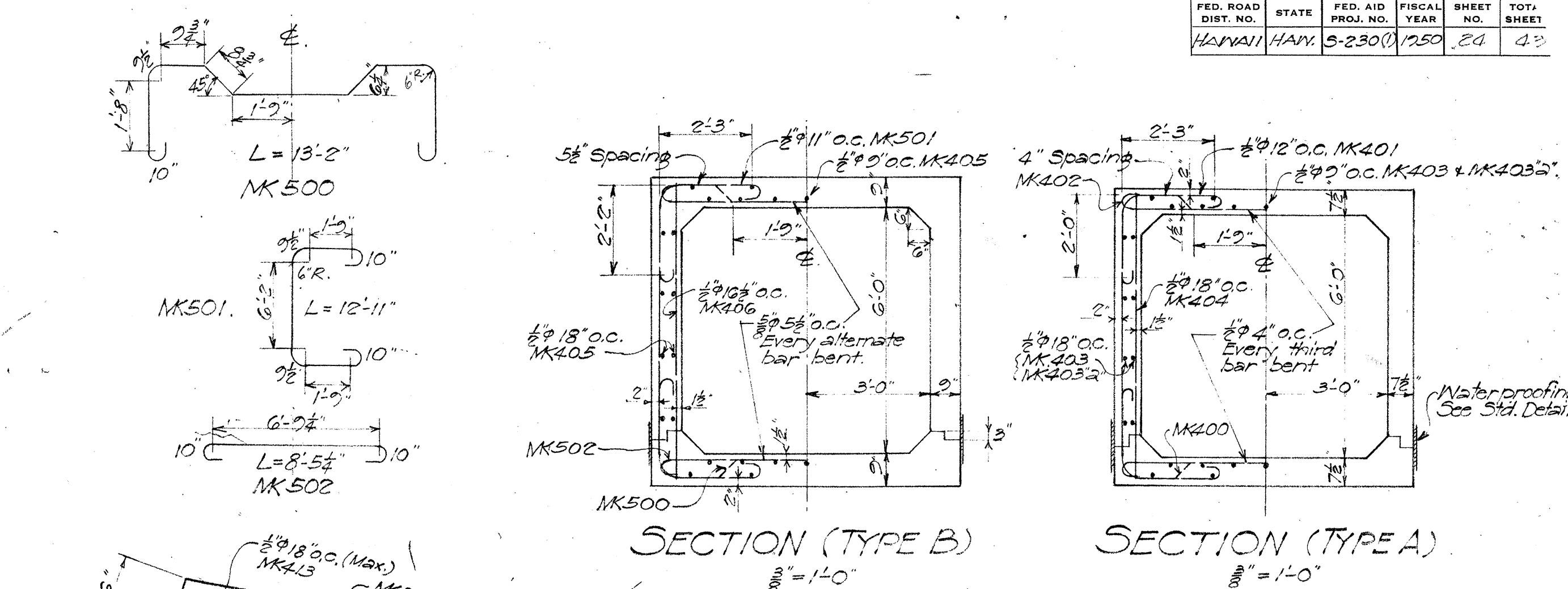
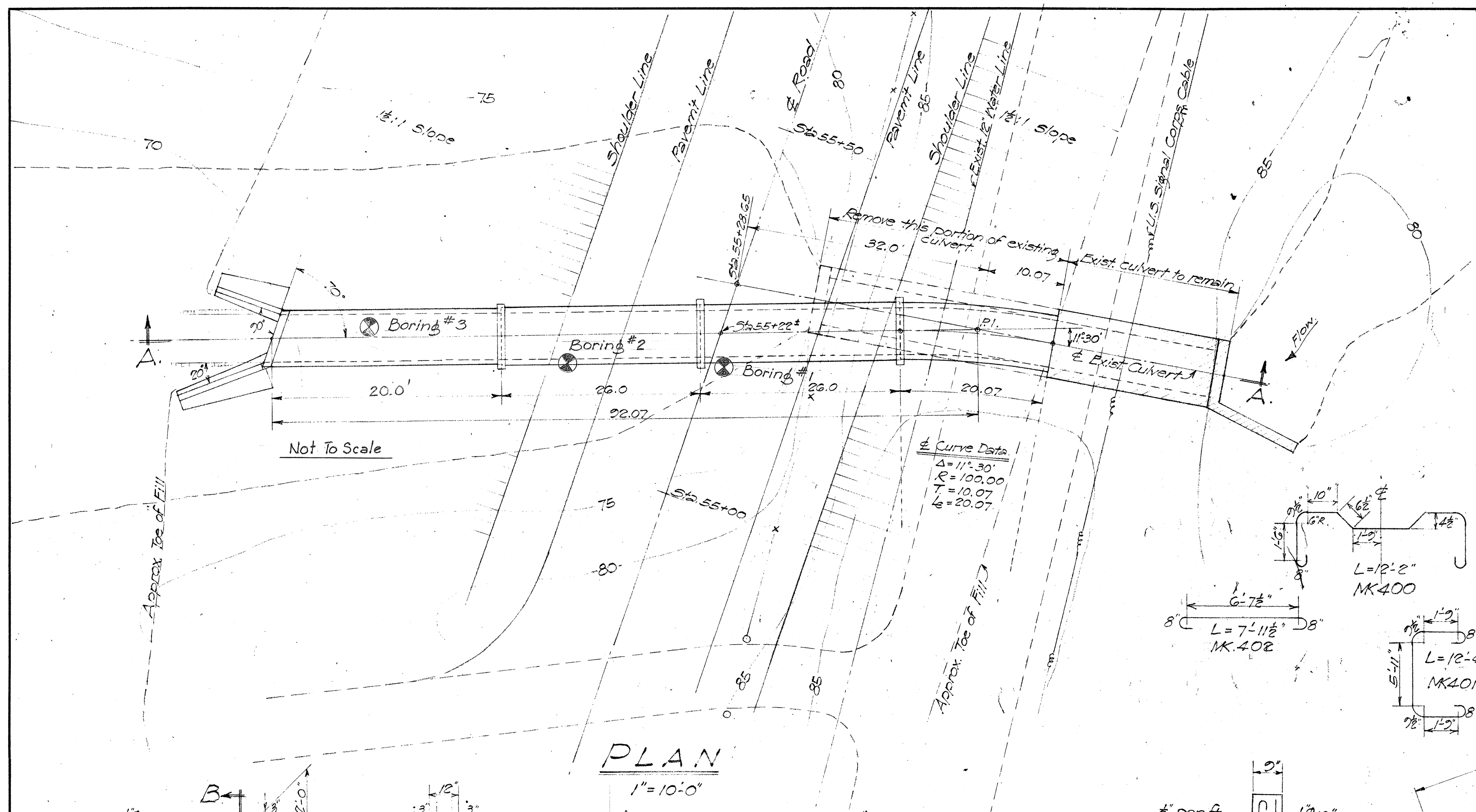




(SECTION C-C)
TYPICAL W.W. SECTION
1/2" = 1'-0"

BORING DATA
Vertical 1" = 10'-0"

ESTIMATED QUANTITIES.
 Class "A-1" Conc. C.Y.
 Reinf. Steel Lbs.
 Structural Exc. C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
6'x6' BOX CULVERT
 S/S. 55+22.2
KANEHOE BAY DRIVE S-230(1)
 Jan. 1950
 SHEET No. 1 OF 1 SHEETS

REVISION: Culvert length changed due to change in roadway grade. (4-9-51)

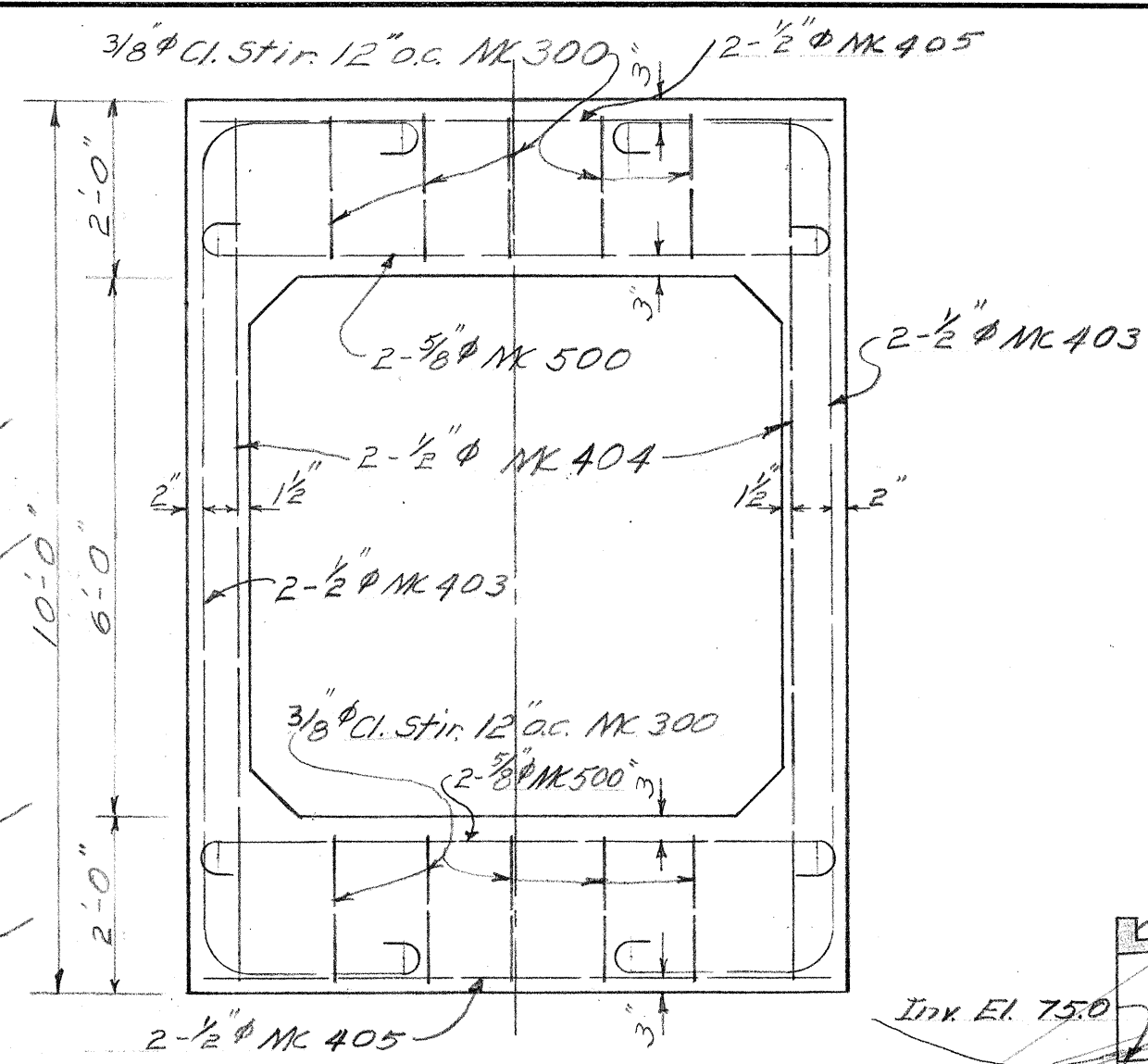
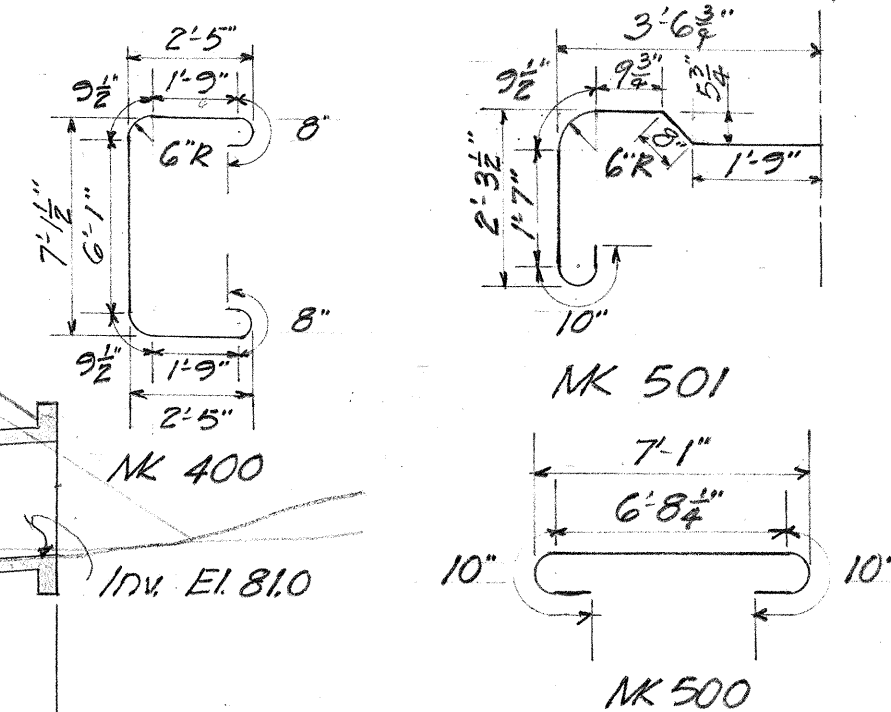
REVISION 4-9-51

REVISION 4-9-51

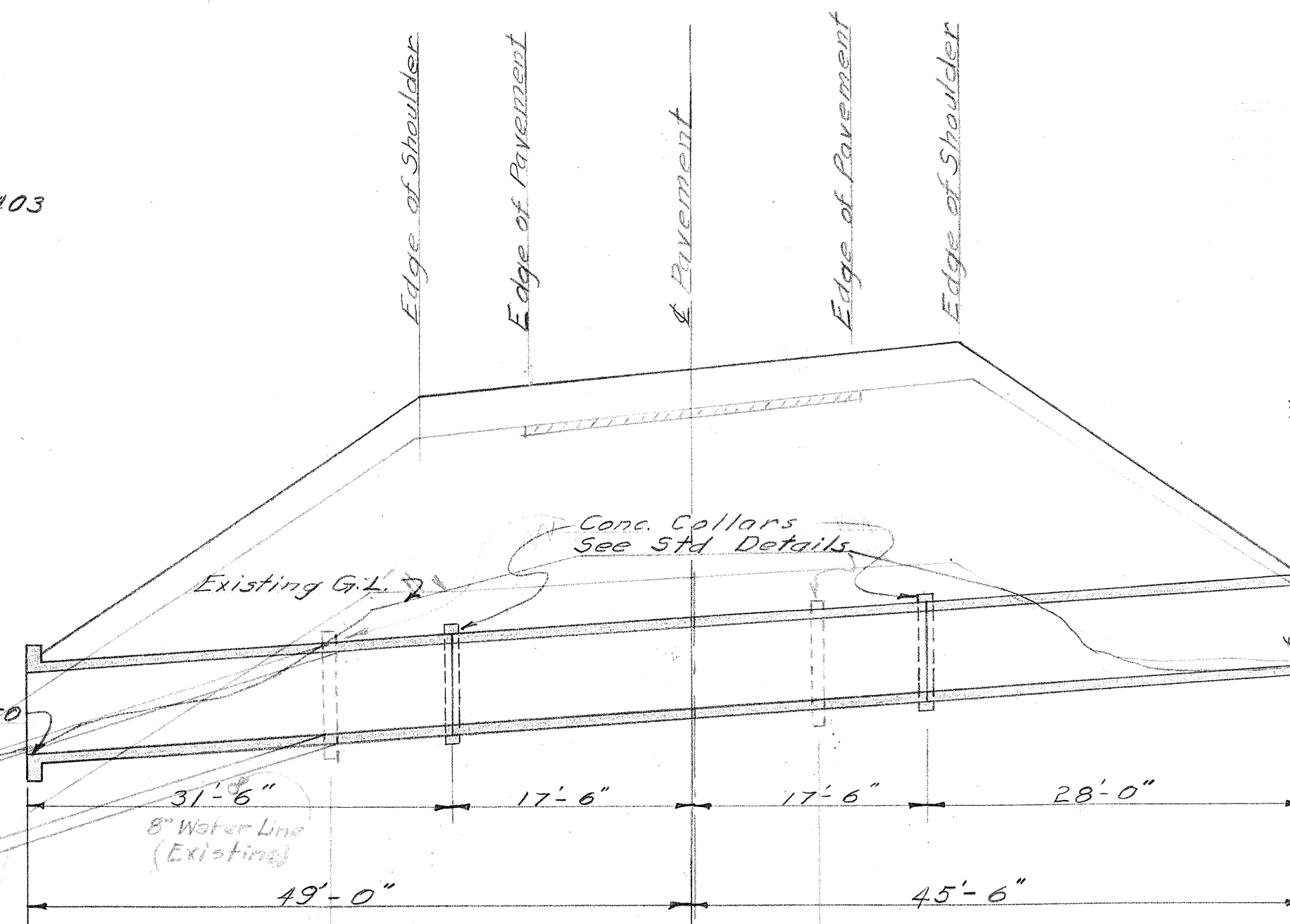
DATE: 4-9-51
 DRAWN BY: R. K. KANEHOE
 CHECKED BY: R. K. KANEHOE
 QUANTITIES CHECKED BY: R. K. KANEHOE
 NOTE BOOK NO.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	52300	1950	25	43

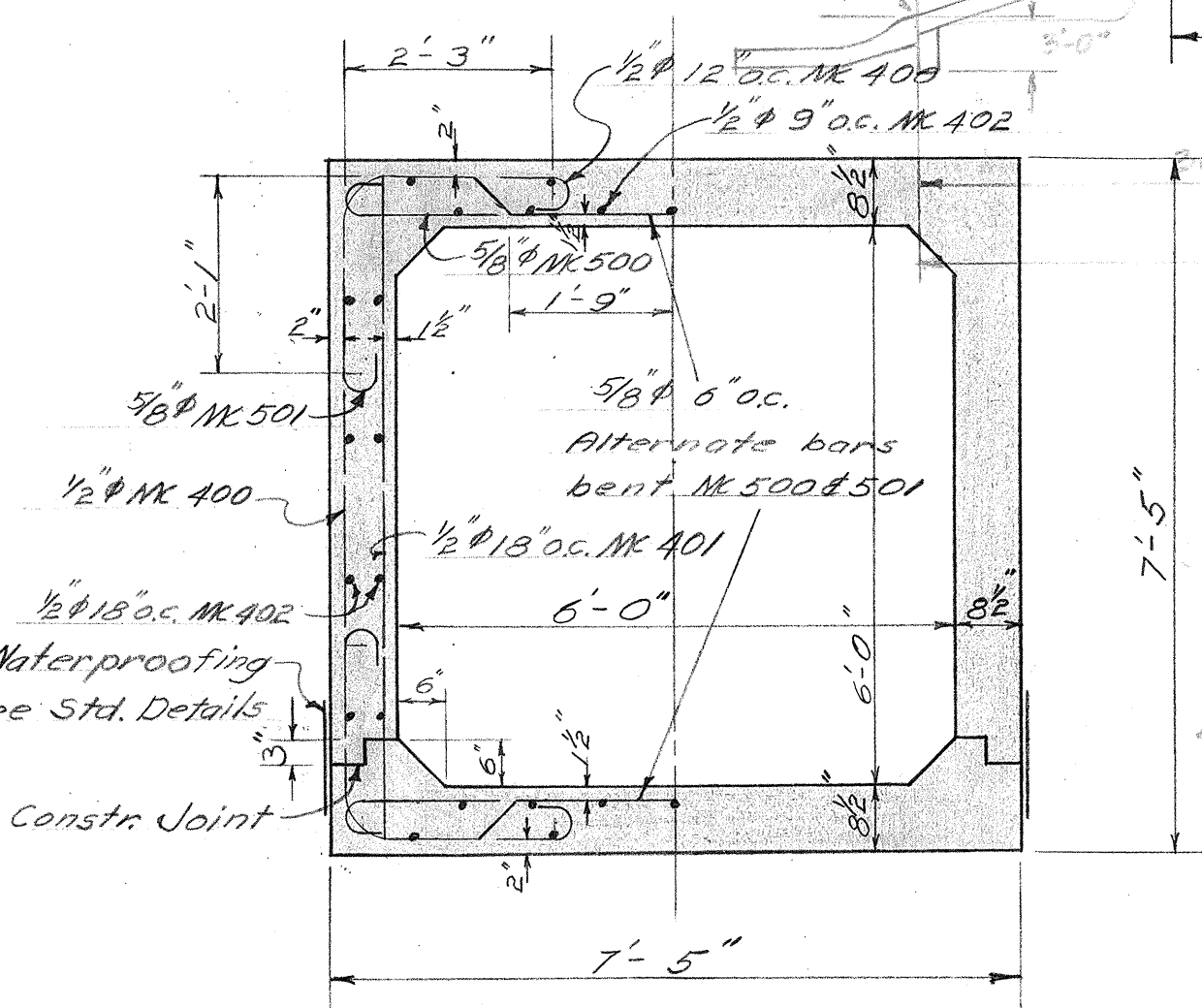
ESTIMATED QUANTITIES
 Class A-1 Conc 101.68 84 cu. yd.
 Reinf. Steel 11,174 9630 lbs.
 Struc. Exc. 455 260 cu. yd.



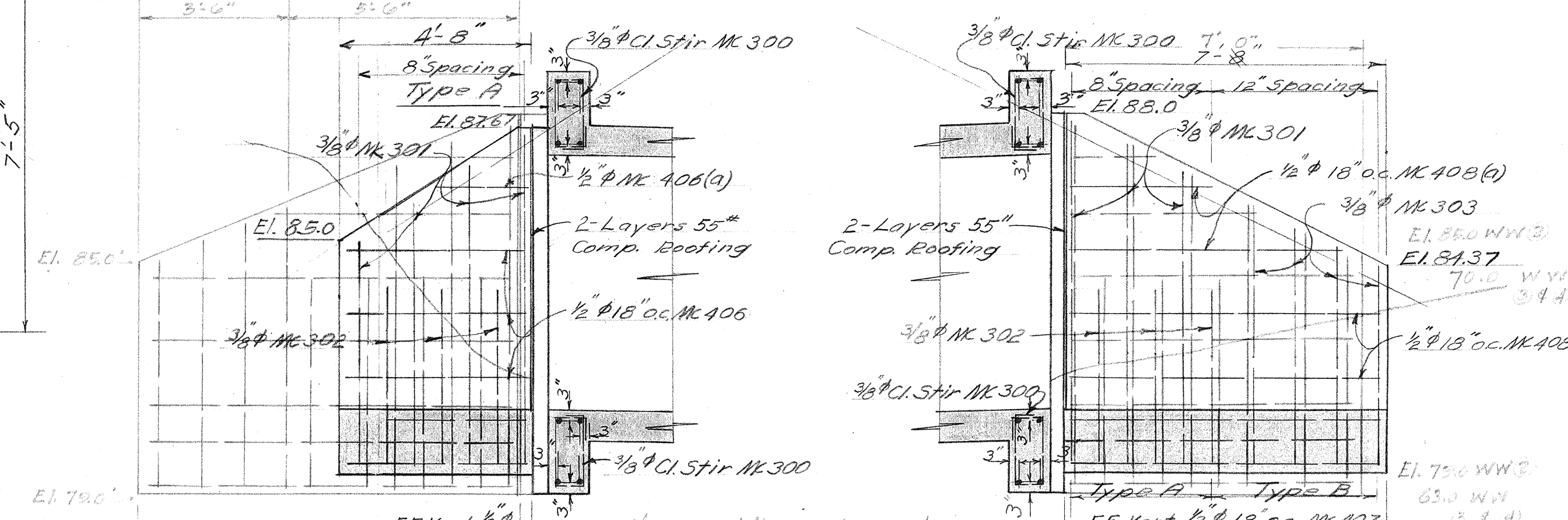
TYPICAL HEADWALL ELEV.
 1/2" = 1 FT.



SECTION ALONG 1 OF CULVERT
 1" = 10 FT.

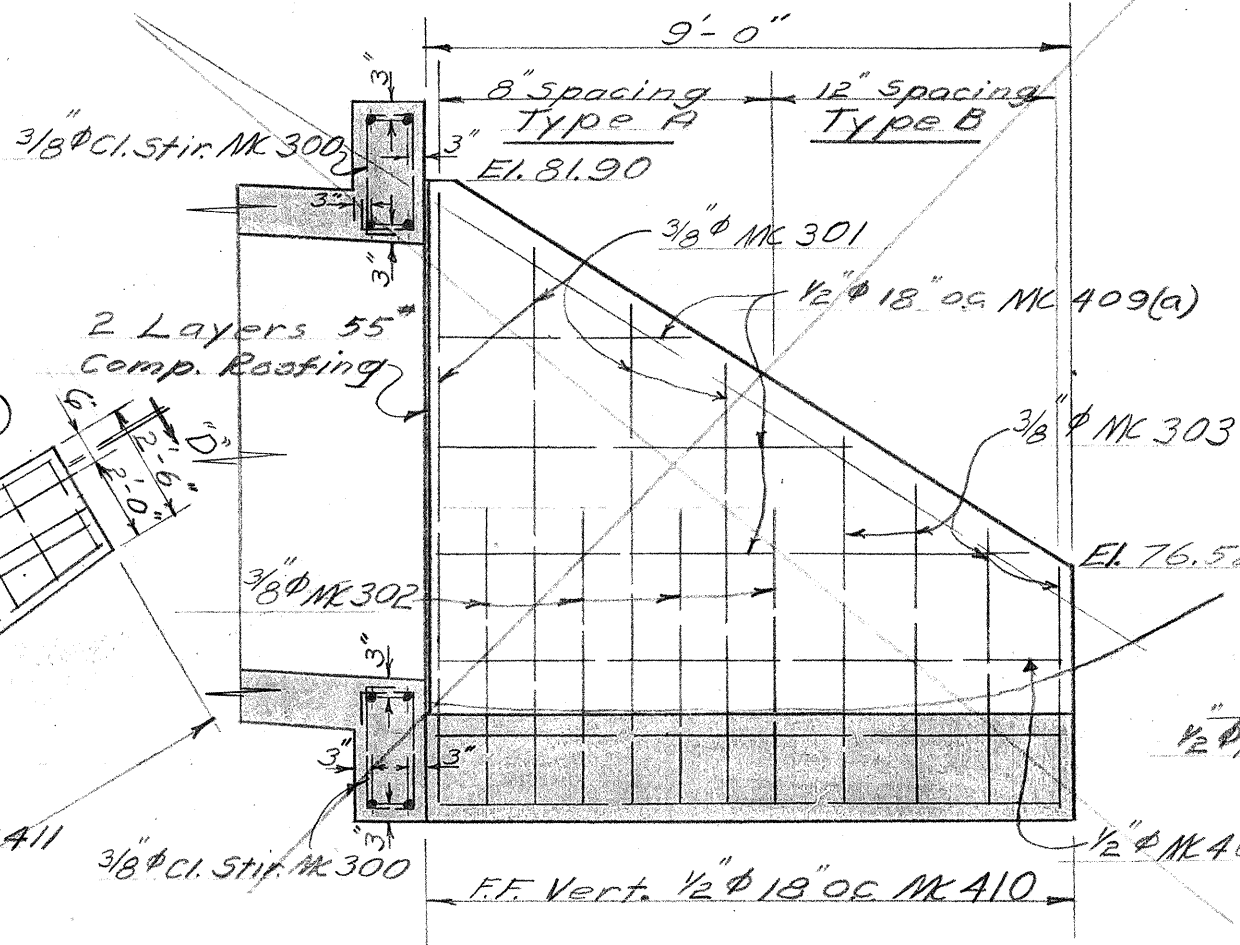


TYPICAL TRUNK SECTION
 1/2" = 1 FT.

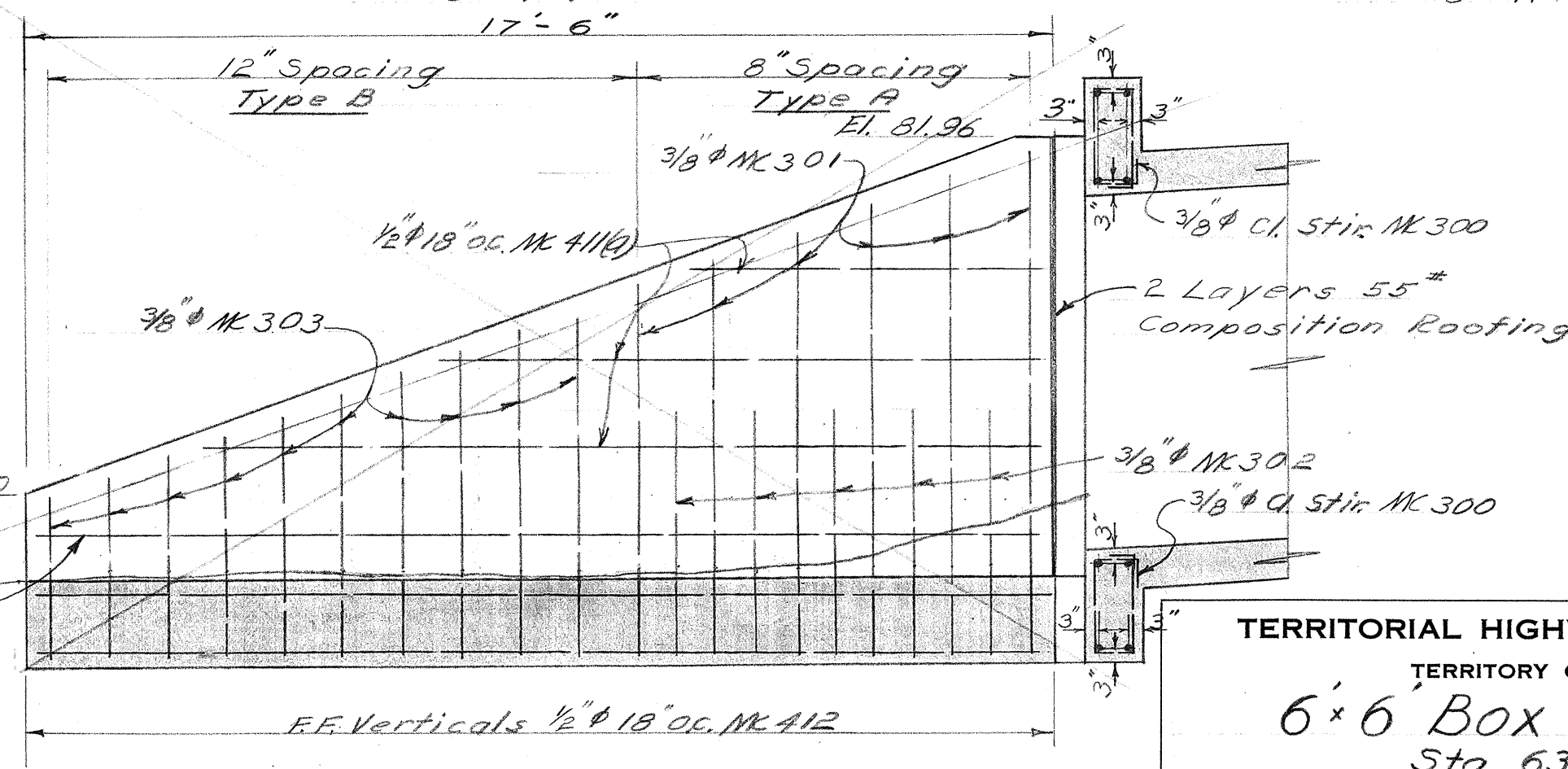


ELEV. A-A WINGWALL 1
 3/8" = 1 FT.

ELEV. B-B WINGWALL 2
 3/8" = 1 FT.

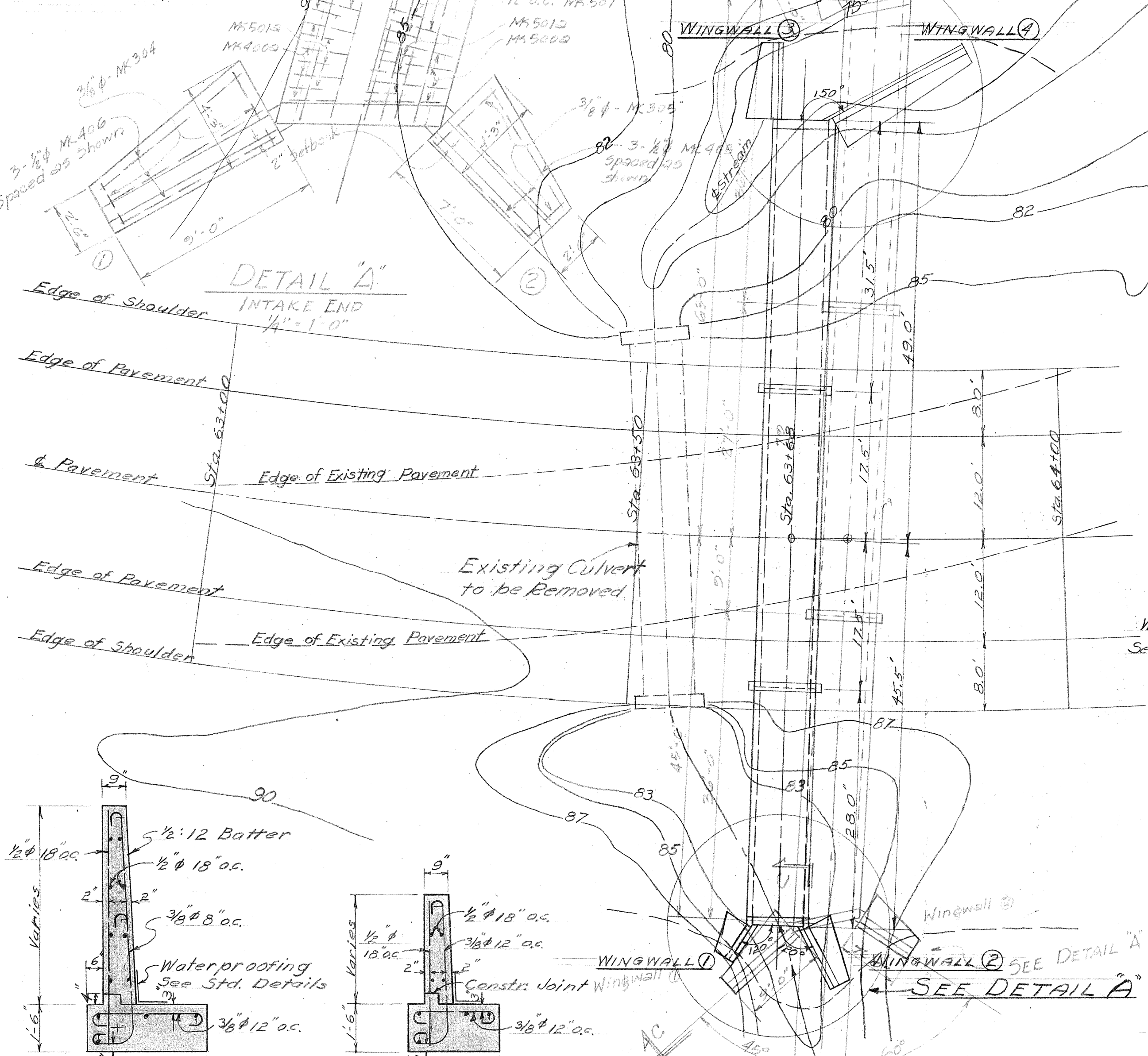


ELEV. C-C WINGWALL 3
 3/8" = 1 FT.

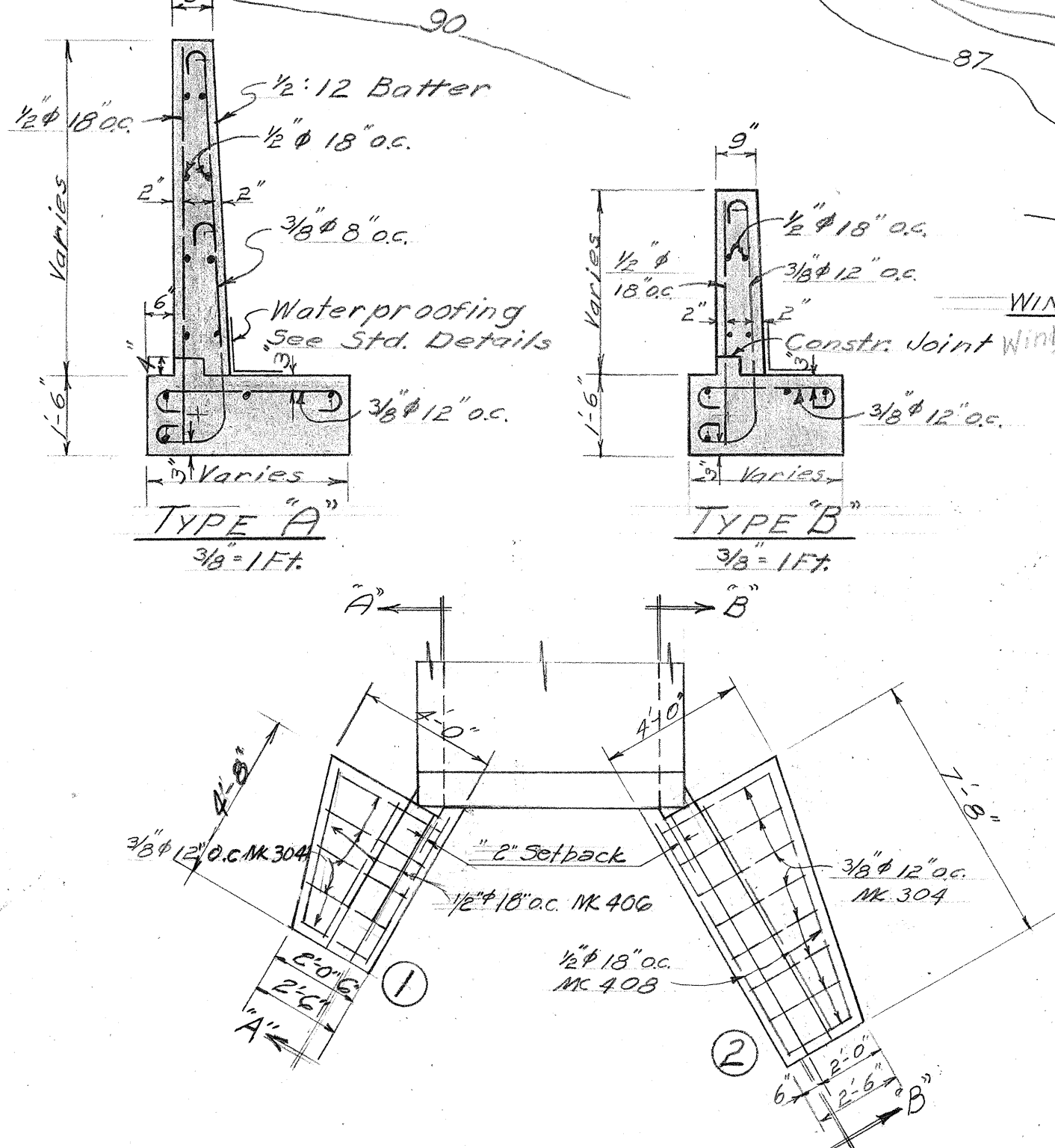


ELEV. D-D WINGWALL 4
 3/8" = 1 FT.

CURVE DATA
 $\Delta = 55^\circ 40' 55''$
 $AC = 26^\circ 55' 00''$
 $DC = 7^\circ 52' 51.5''$
 $EC = 9^\circ 52' 51.5''$
 $LC = 78^\circ 10' 00''$
 $LT = 200'$
 $ST = 139.55'$
 $SE = 0.1'$



LOCATION PLAN
 1" = 10 FT.



DETAIL A INTAKE END
 1/4" = 1 FT.

DETAIL B OUTLET END
 1/4" = 1 FT.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
6'x6' BOX CULVERT
 Sta. 63+68.70

Kaneohe Bay Drive 5230(1)

Nov. 1949

SHEET No. 1 OF 1 SHEETS

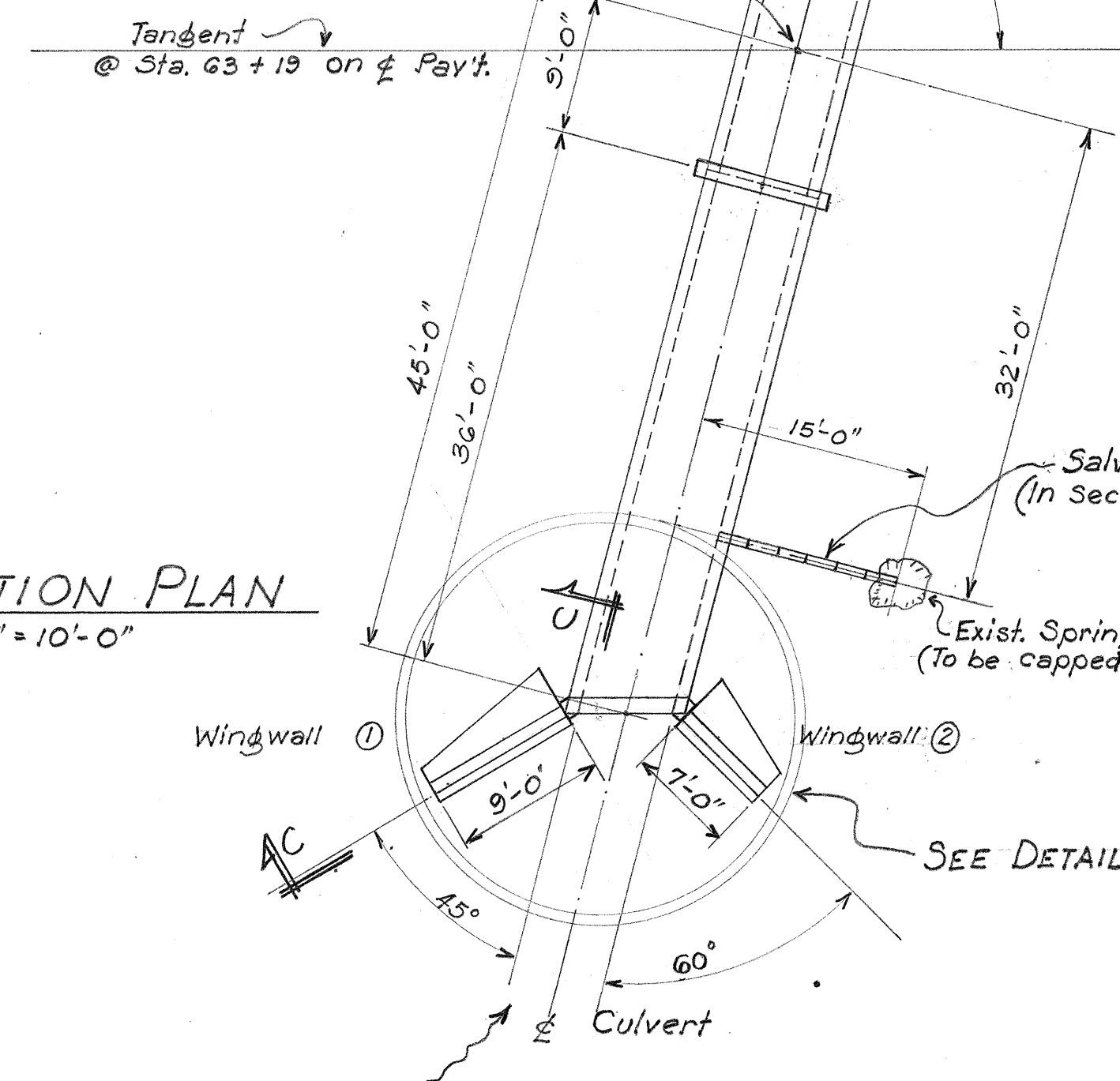
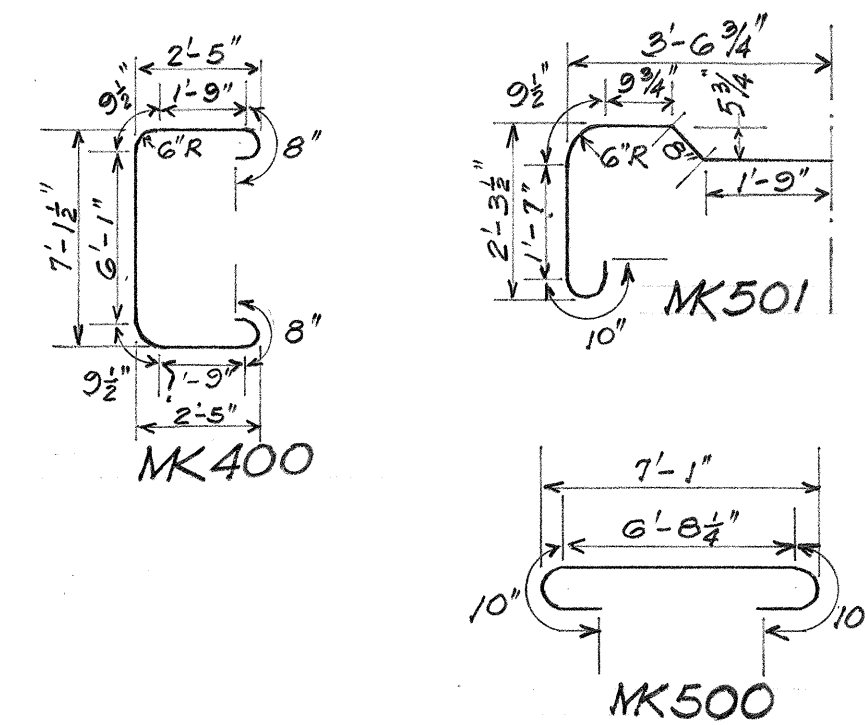
5473.25

DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: 11-23-49
 QUANTITIES BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: 11-23-49
 NOTE BOOK NO. 25

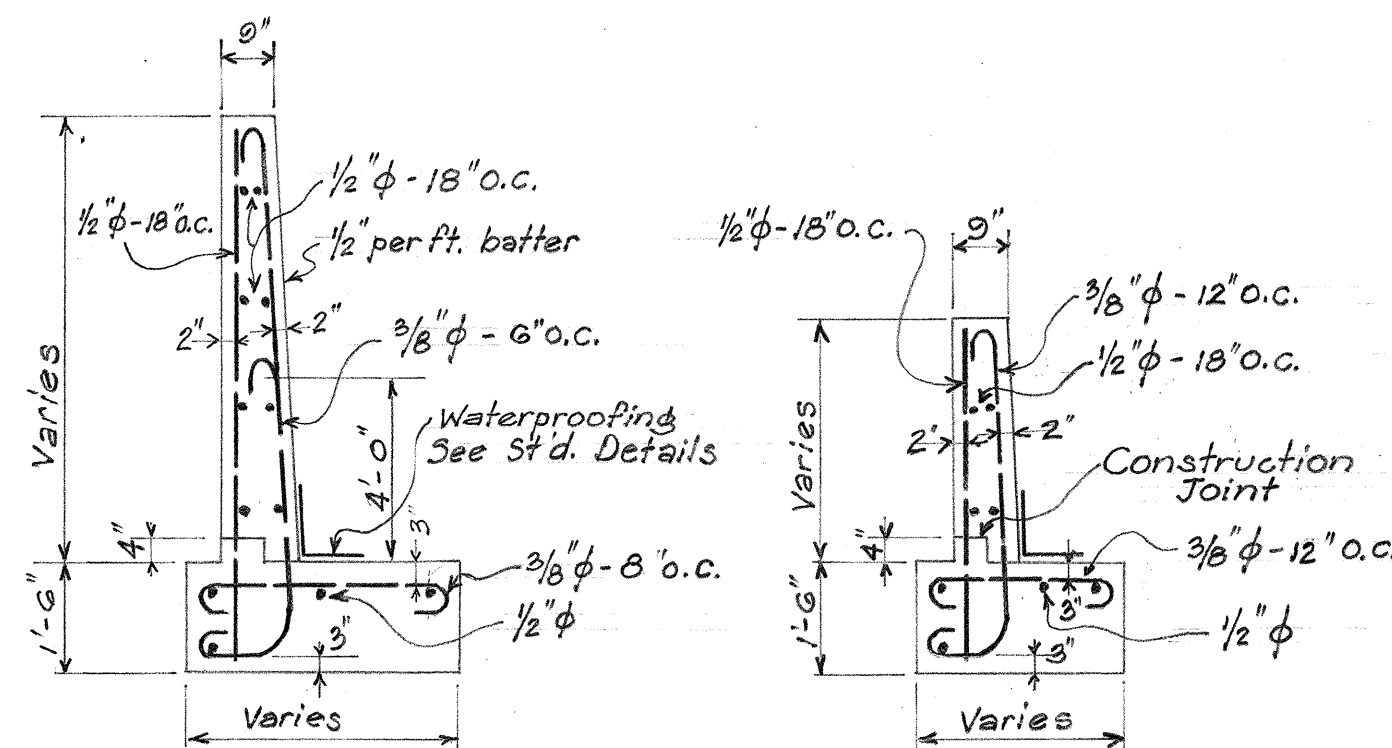
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

ESTIMATED QUANTITIES

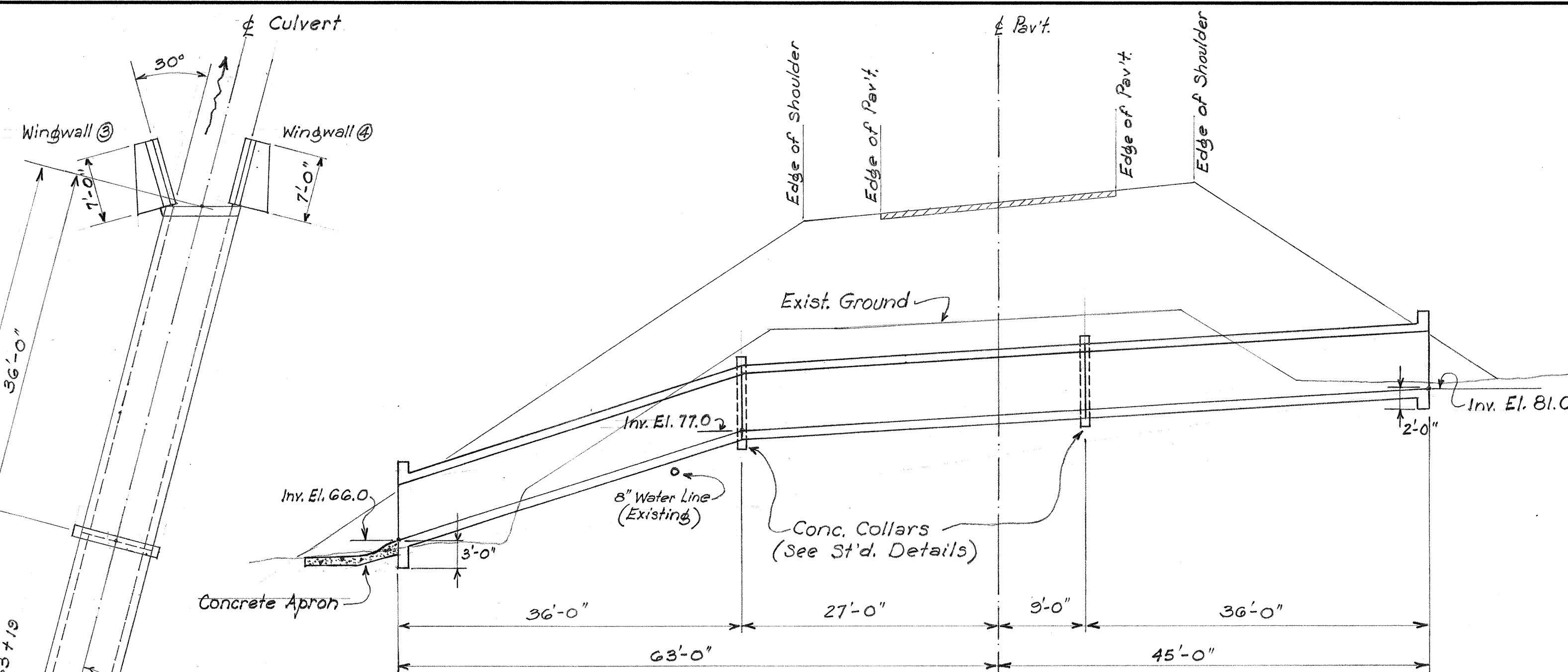
Class A-1 Conc.
Reinf. Steel
Struct. Exc.



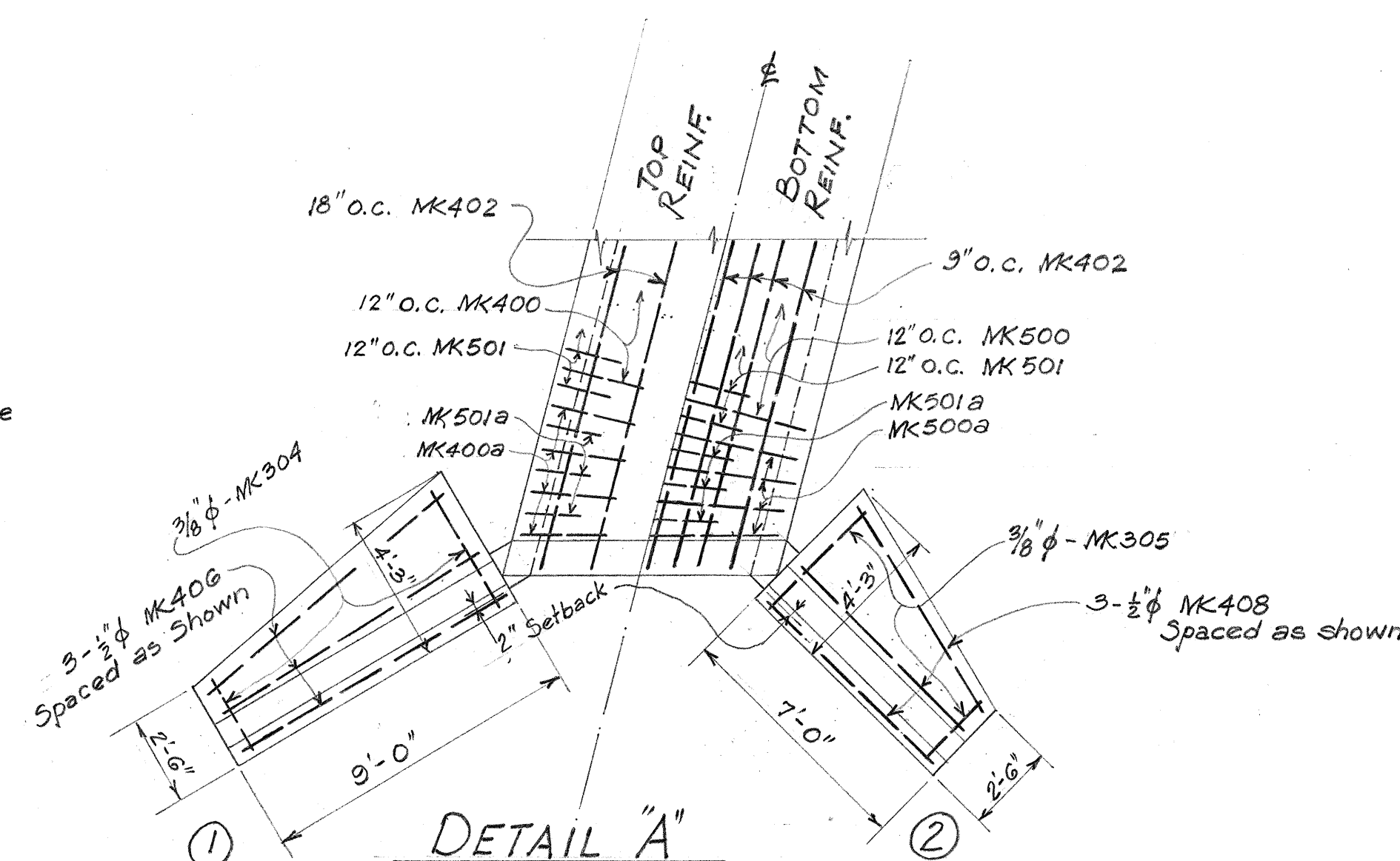
LOCATION PLAN
1" = 10'-0"



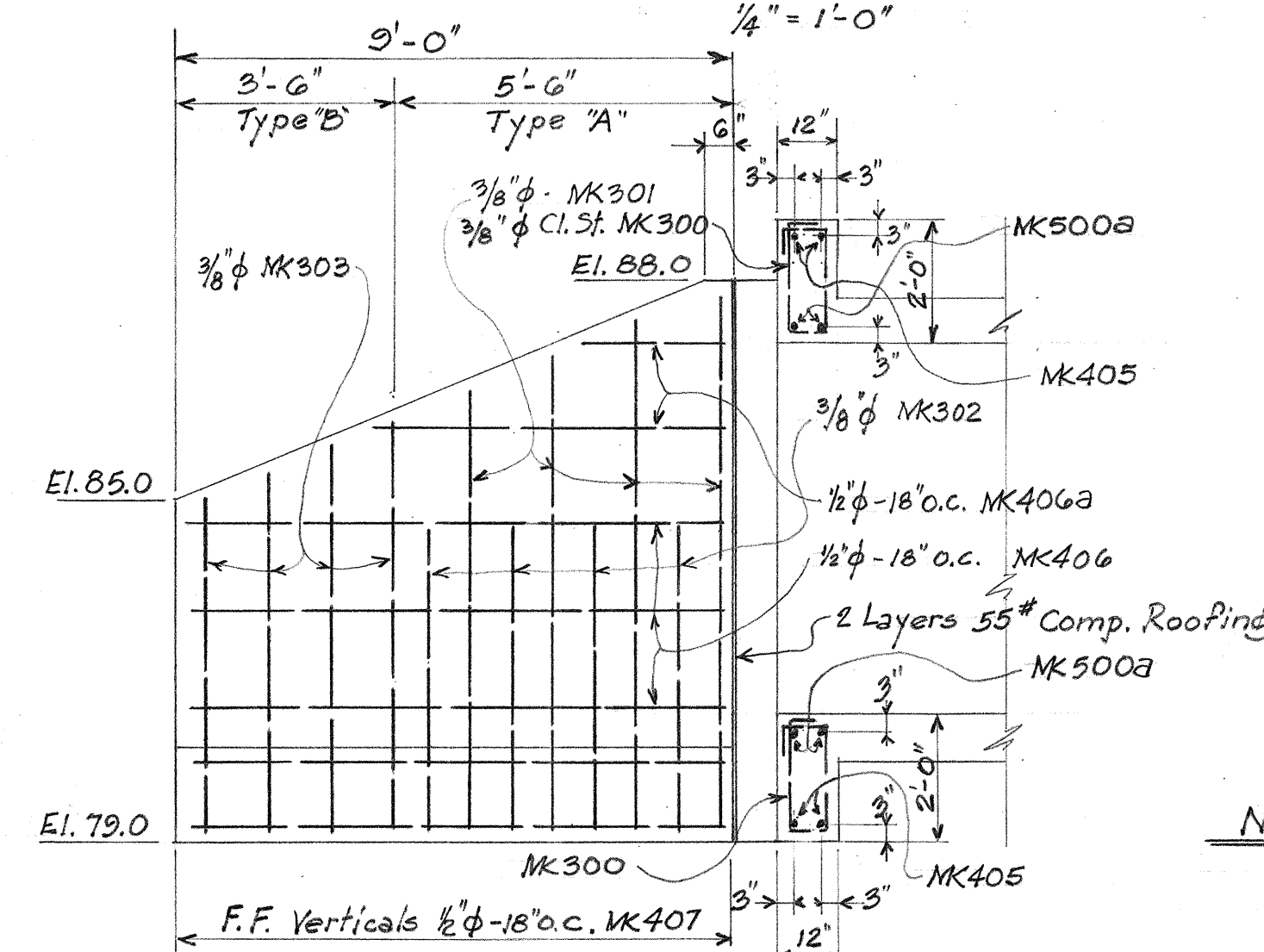
TYPE "A" TYPE "B"
TYPICAL WALL SECTIONS
 $\frac{3}{8}" = 1'-0"$



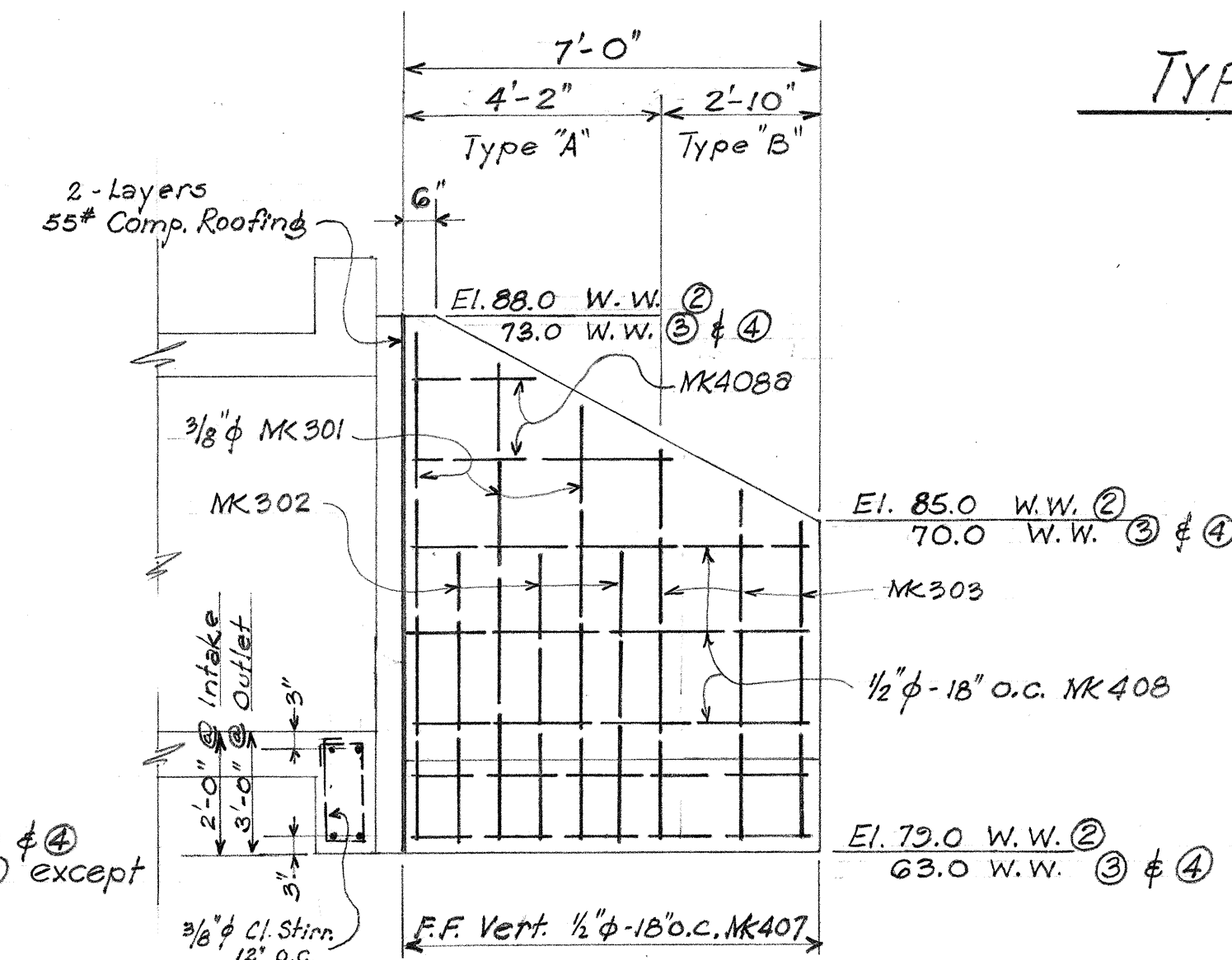
SECTION ALONG ϕ OF CULVERT
J" = 10'-0"



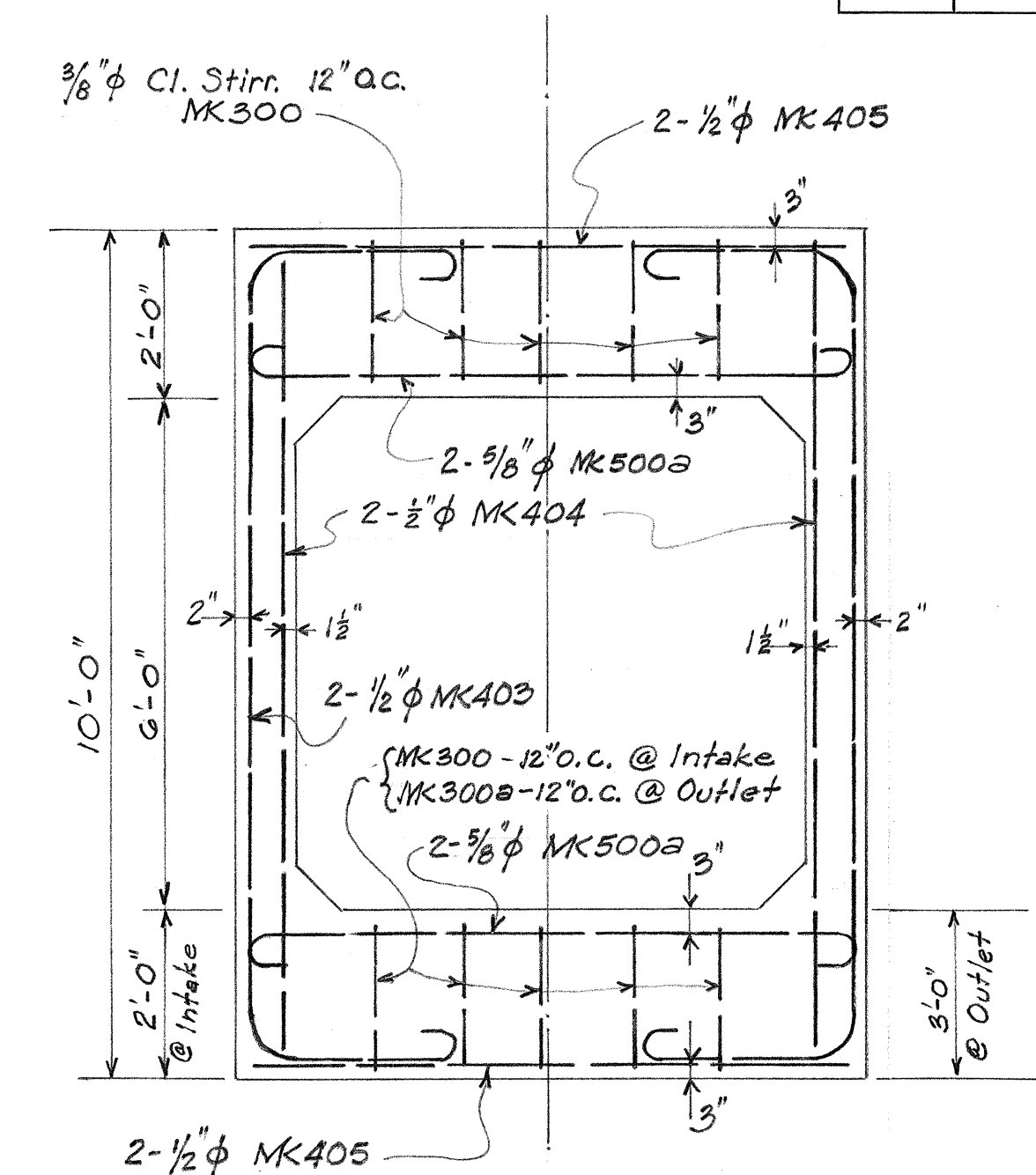
DETAIL "A"
INTAKE END



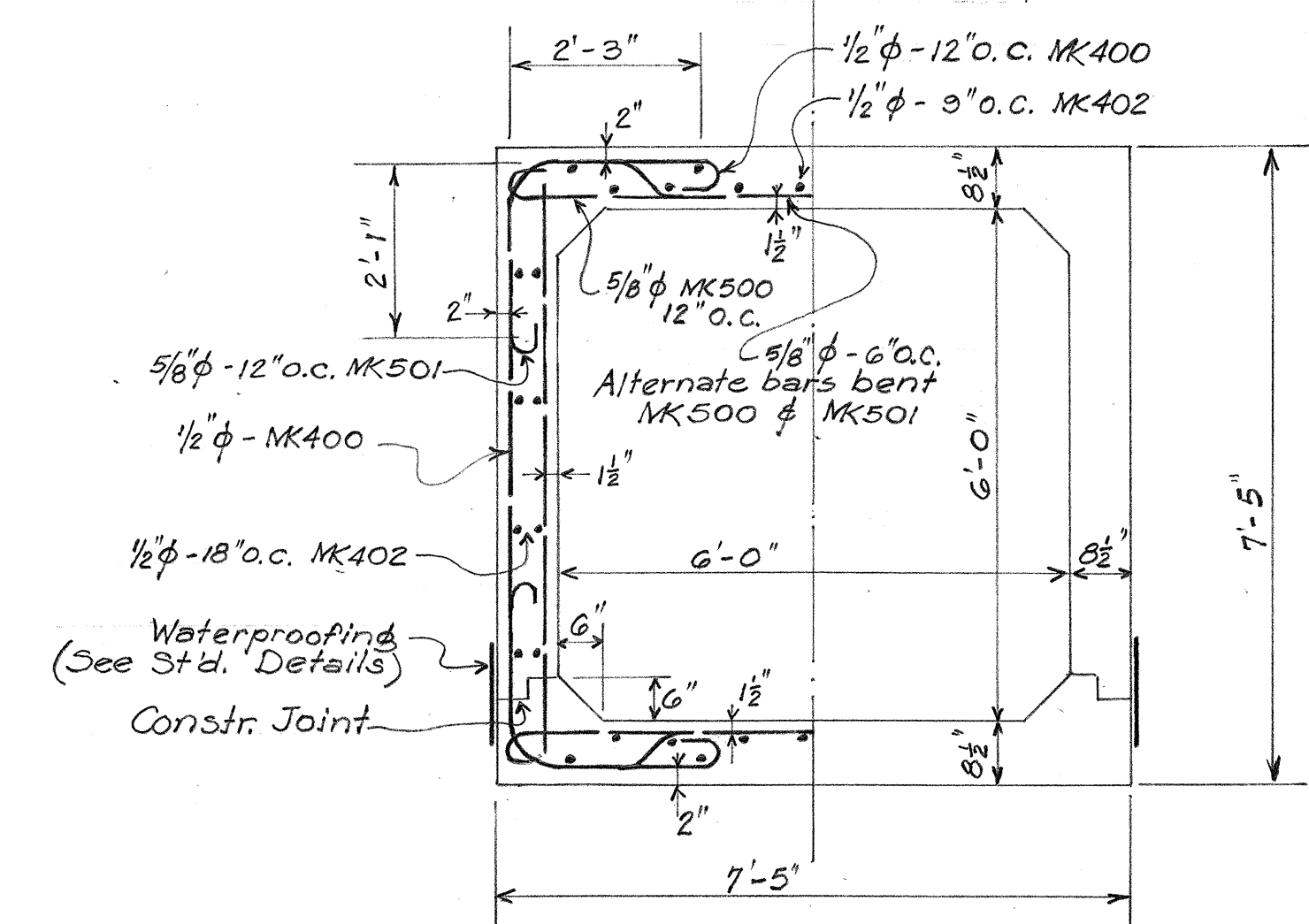
ELEV. C-C WINGWALL ①



ELEV. D-D WINGWALL (2)



TYPICAL HEADWALL ELEV.
 $\frac{1}{2}'' = 1'-0''$



TYPICAL TRUNK SECTION
1/2" = 1'-0"

REVISION: 5-1-51

Revise location, alignment, length,
invert grade, roadway
grade, wing walls.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

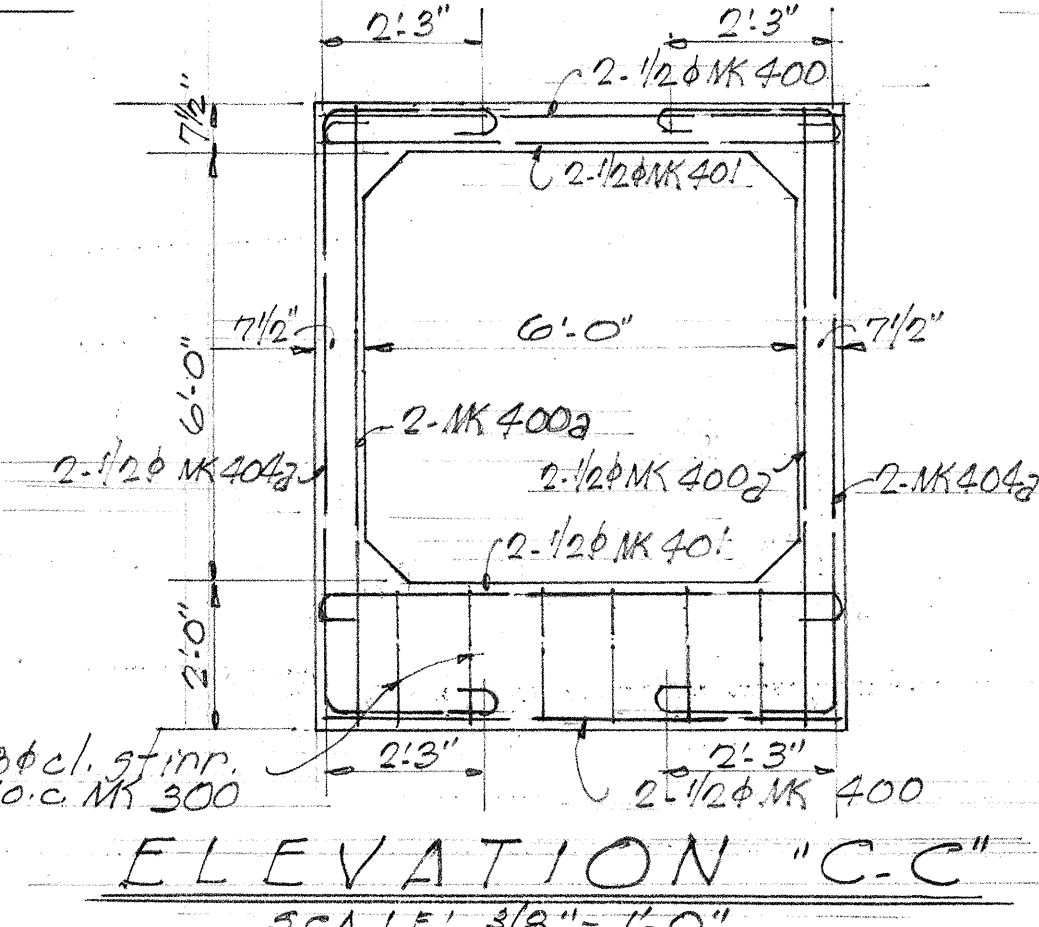
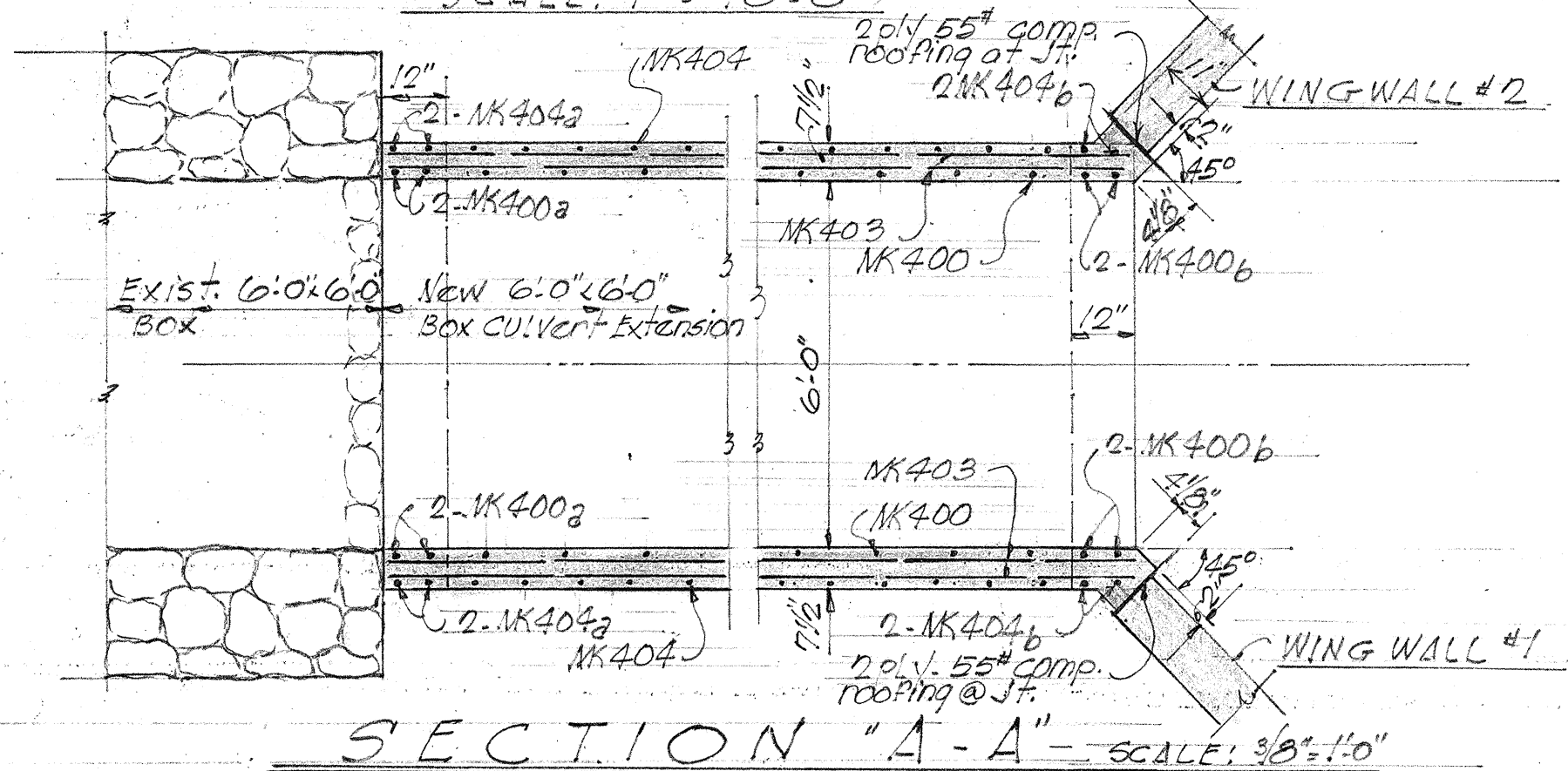
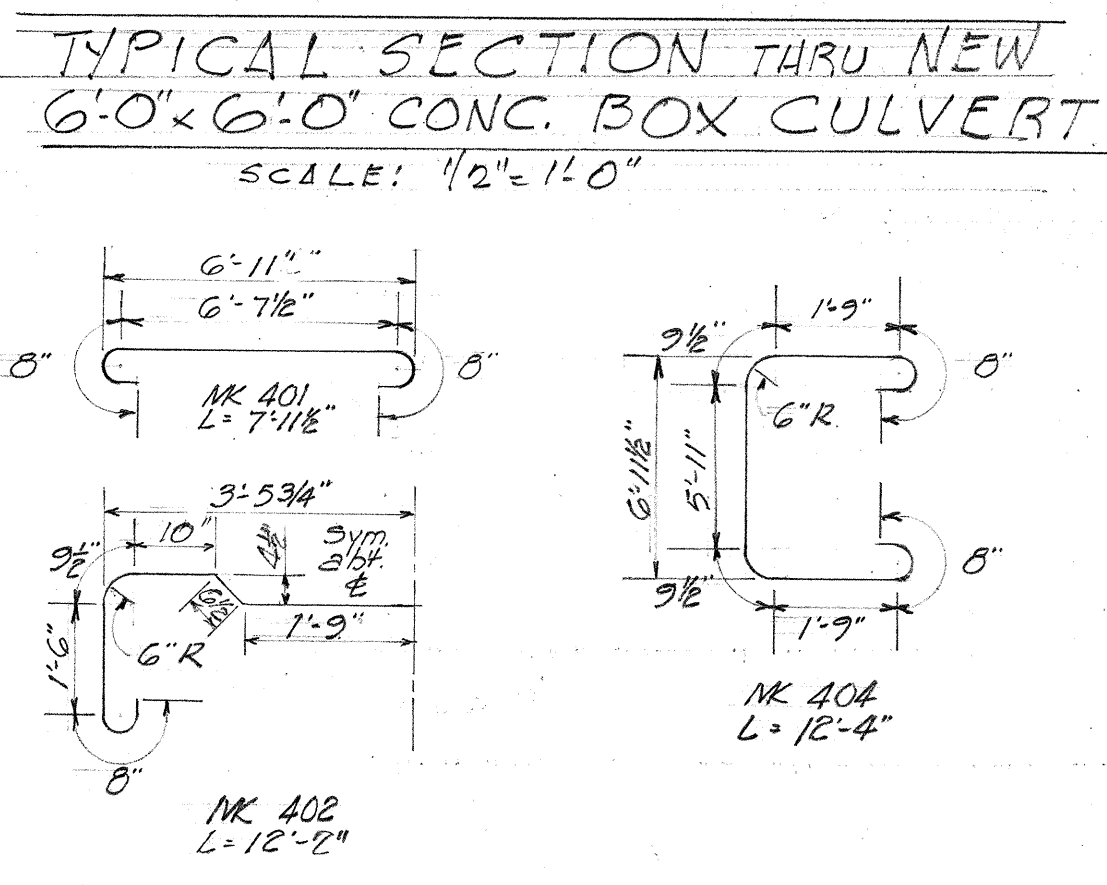
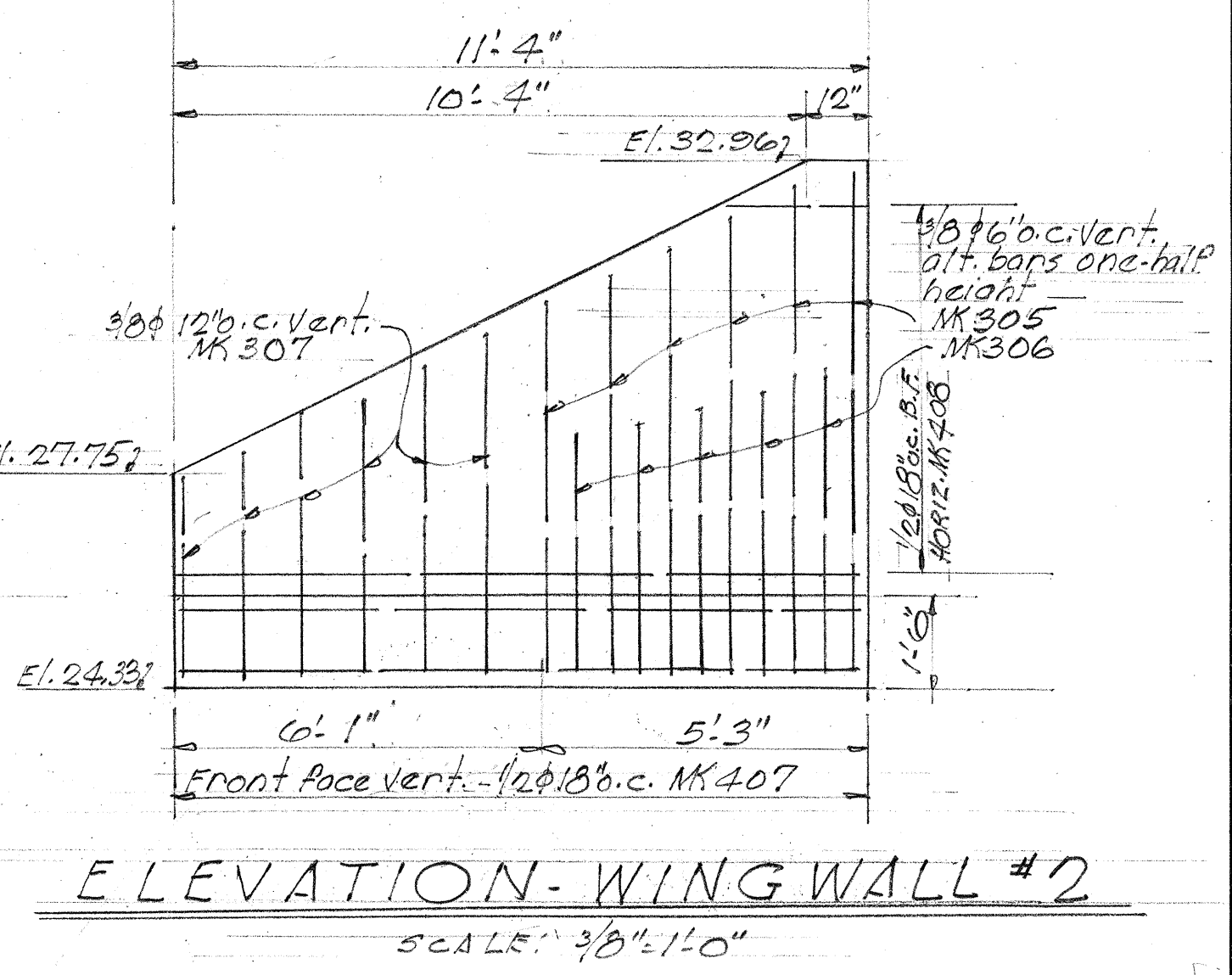
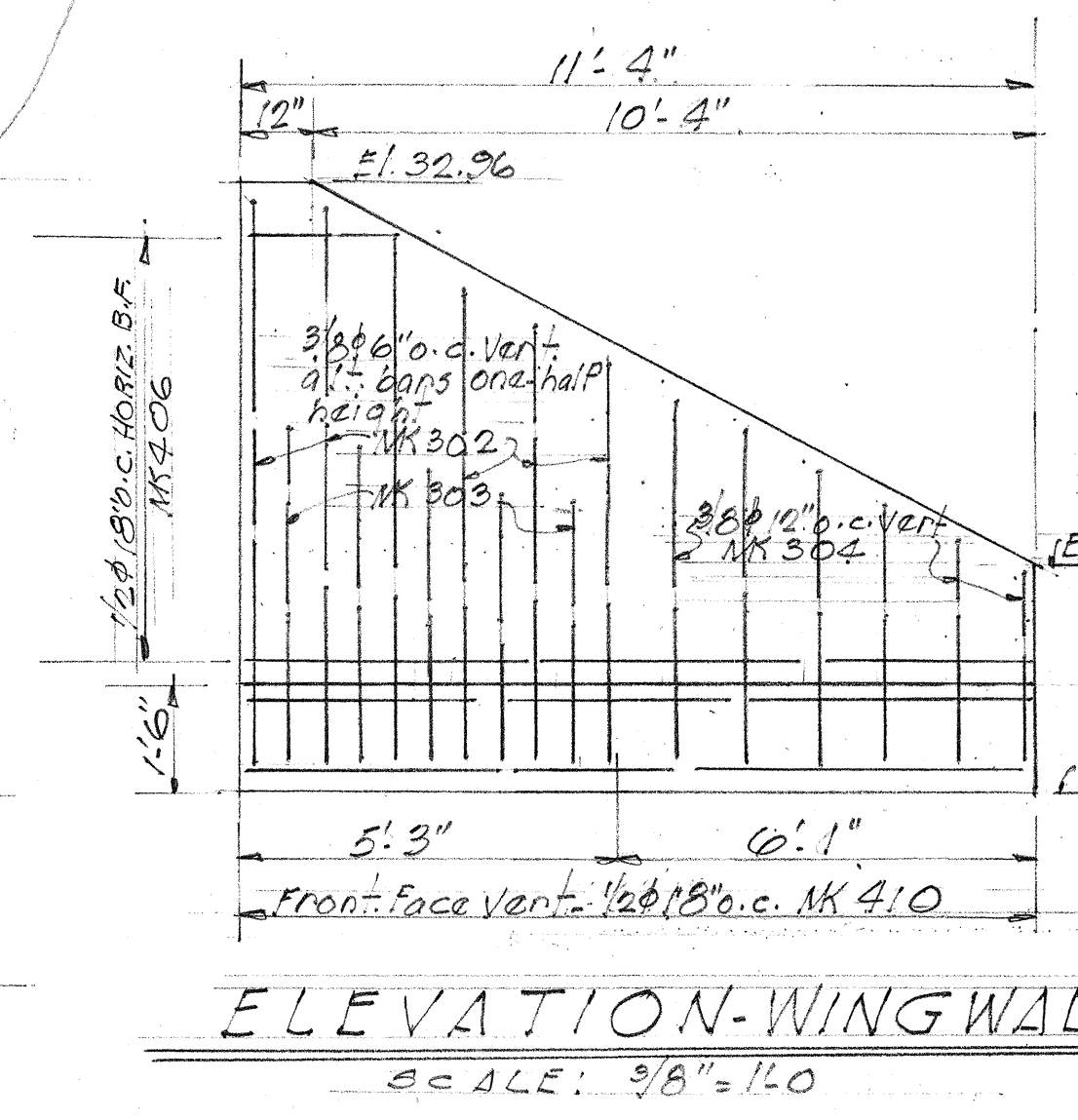
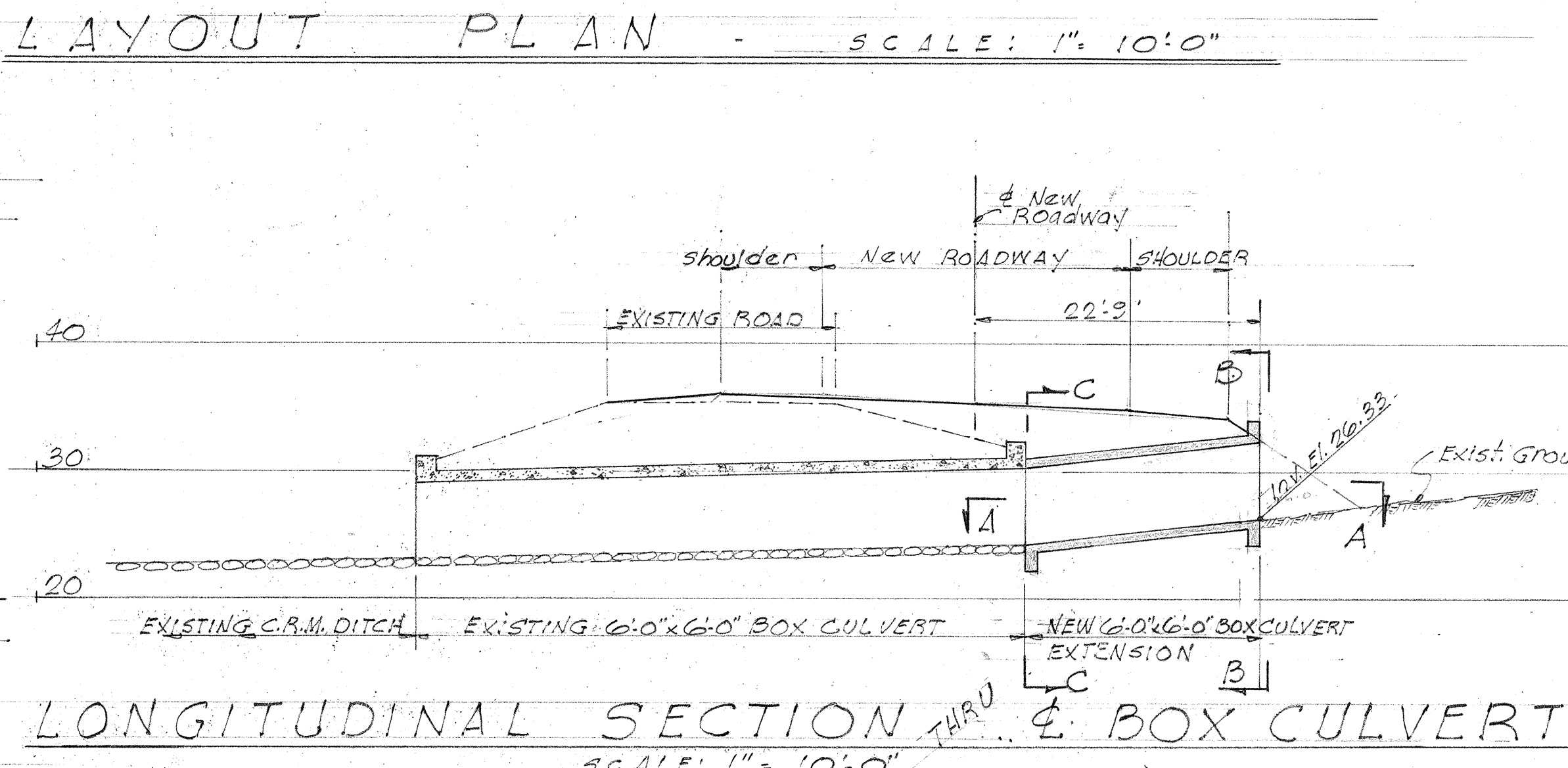
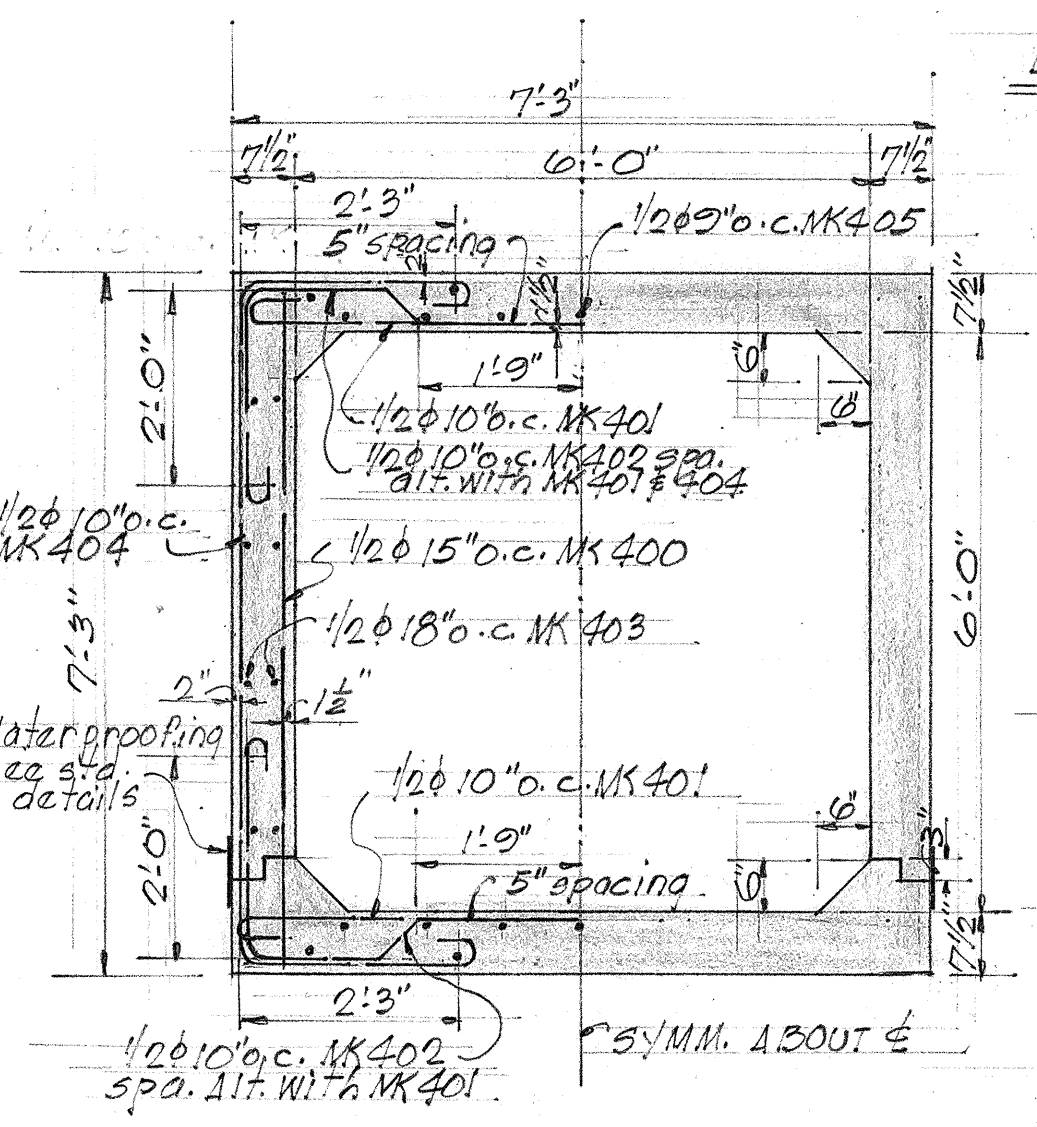
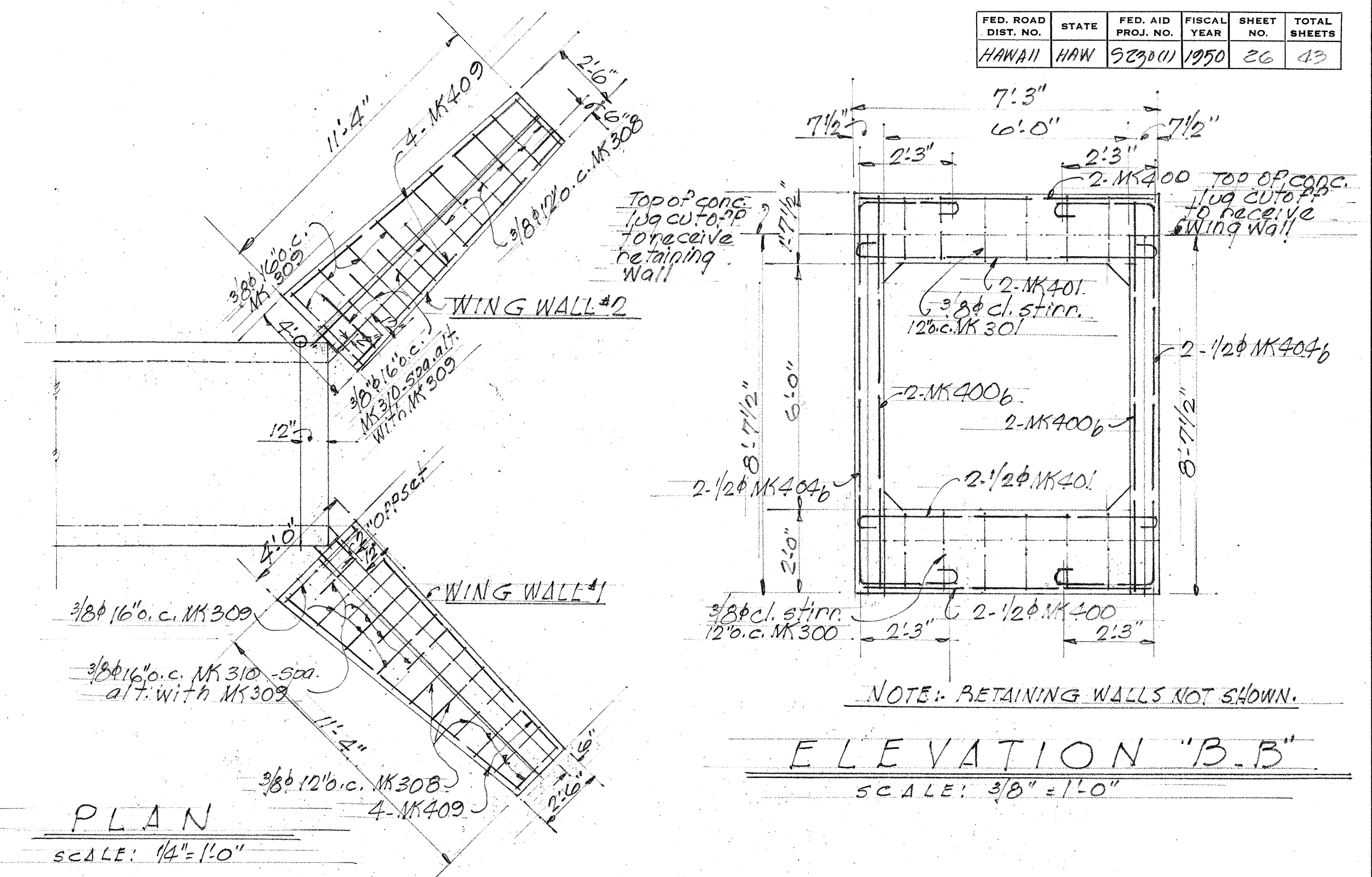
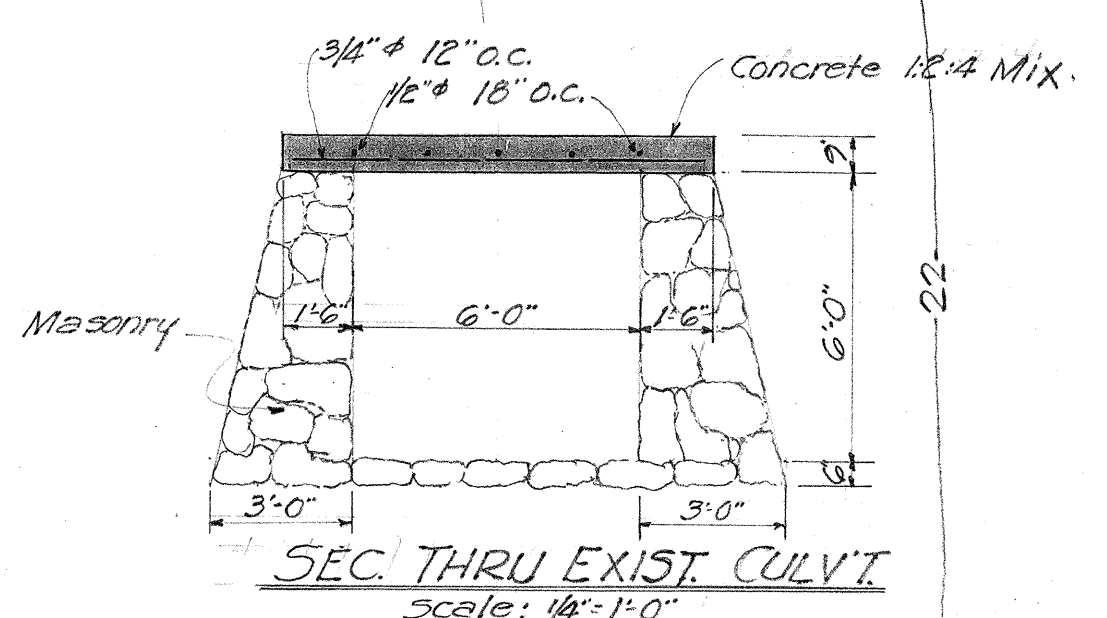
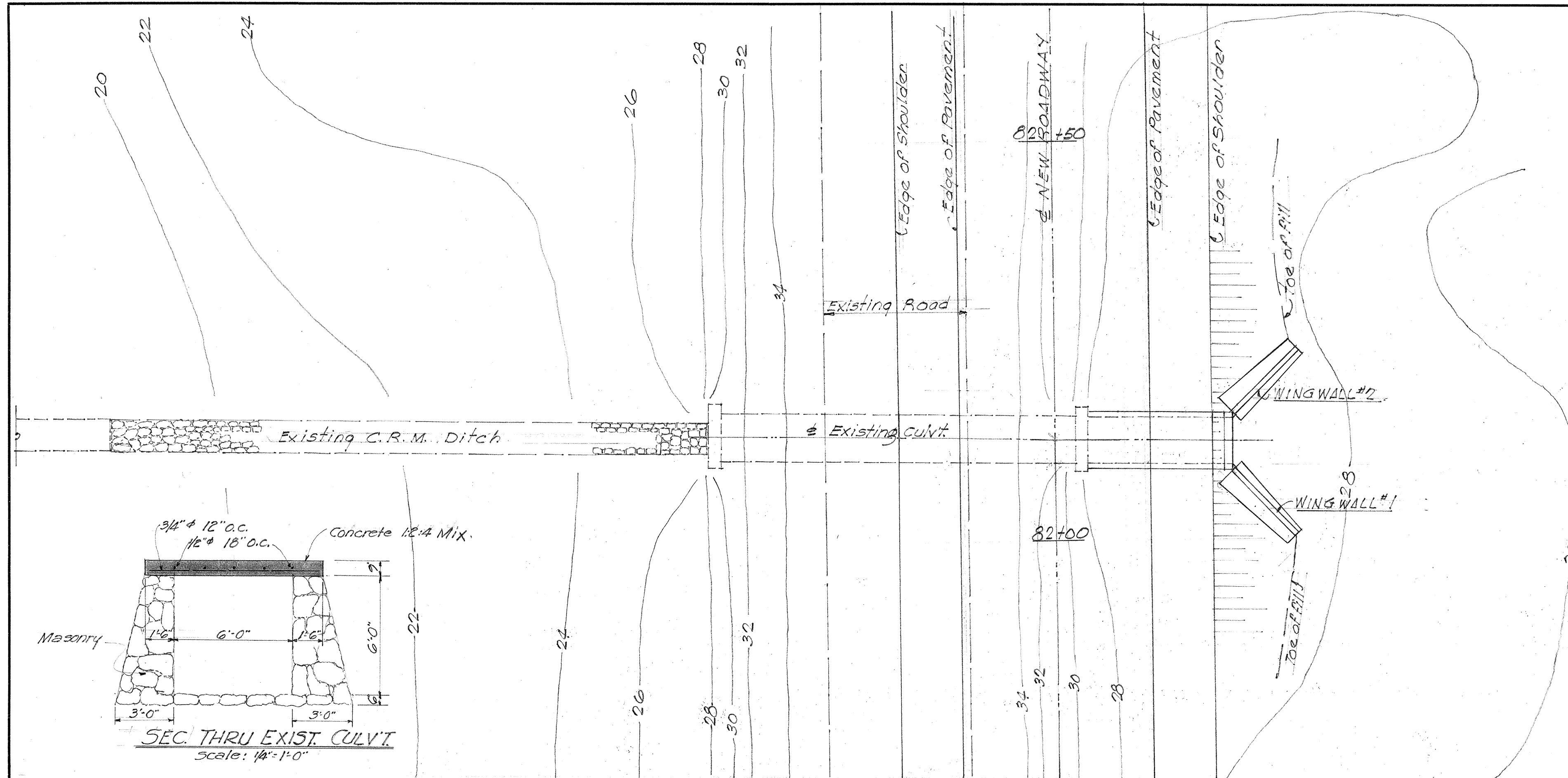
6' x 6' BOX CULVERT
Sta. 63 + 19

KANE OHE BAY DRIVE S230(1)

MAY 1951

SHEET No. / OF / SHEETS

5473.25



ESTIMATED QUANTITIES

CLASS A-1 CONC. :-	23.73 cu. yds.
REINF. STEEL :-	2,040 lbs.
STRUCT. EXCAVATION :-	10 cu yds

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

6'-0"X6'-0" CONC. BOX CULVERT EXTENSION
STA. 82 ± 13
Kaneohe Bay Drive S 230 (1)
DECEMBER 1949

SHEET No. 1 OF 1 SHEETS

DATE: 12-49
DESIGNED BY: J. H. KELLEY
CHECKED BY: J. H. KELLEY
QUANTITIES BY: J. H. KELLEY
QUANTITIES CHECKED BY: J. H. KELLEY
NO. 1