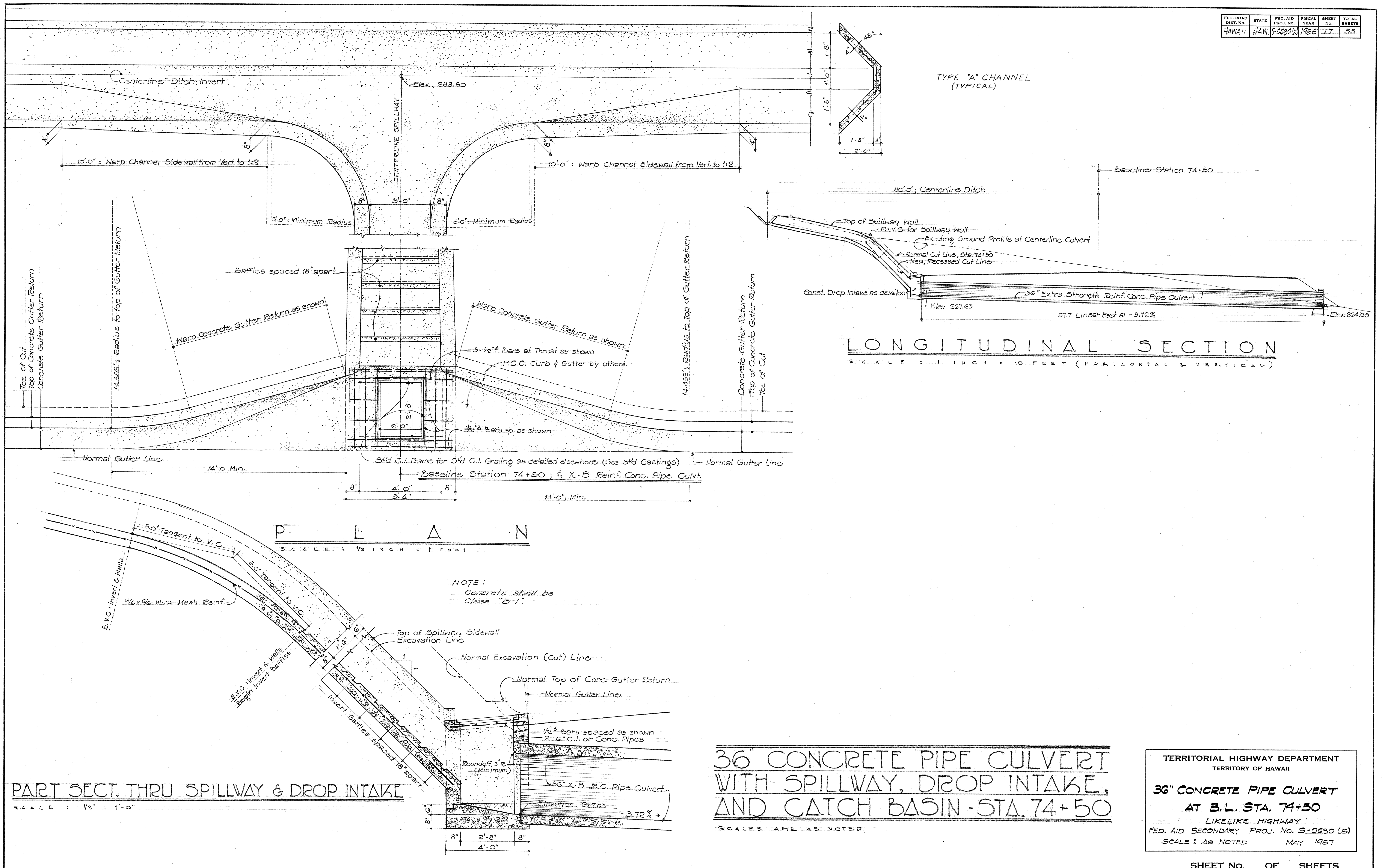


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	S-0630 (5)	1958	17	53



ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DESIGNED BY _____	_____
	TRACED BY _____	_____
NOTE BOOK	QUANTITIES BY _____	_____
	QUANTITIES CHECKED BY _____	_____
No. _____	CHECKED BY _____	_____

ESTIMATED QUANTITIES

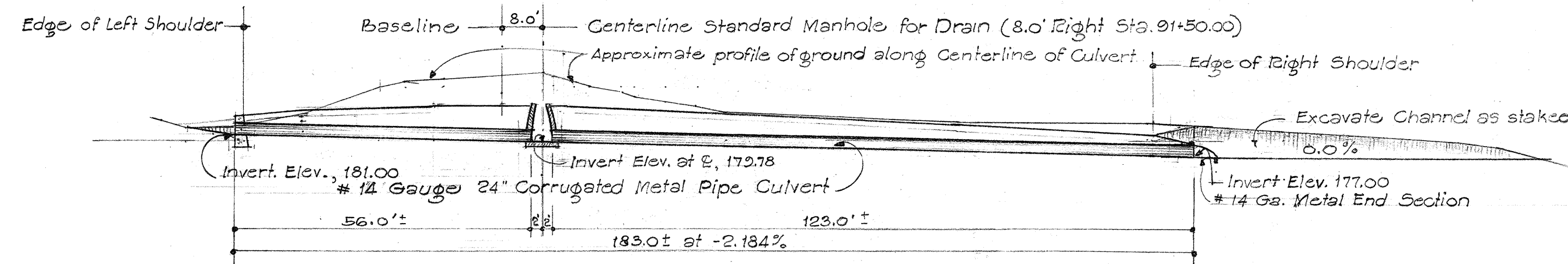
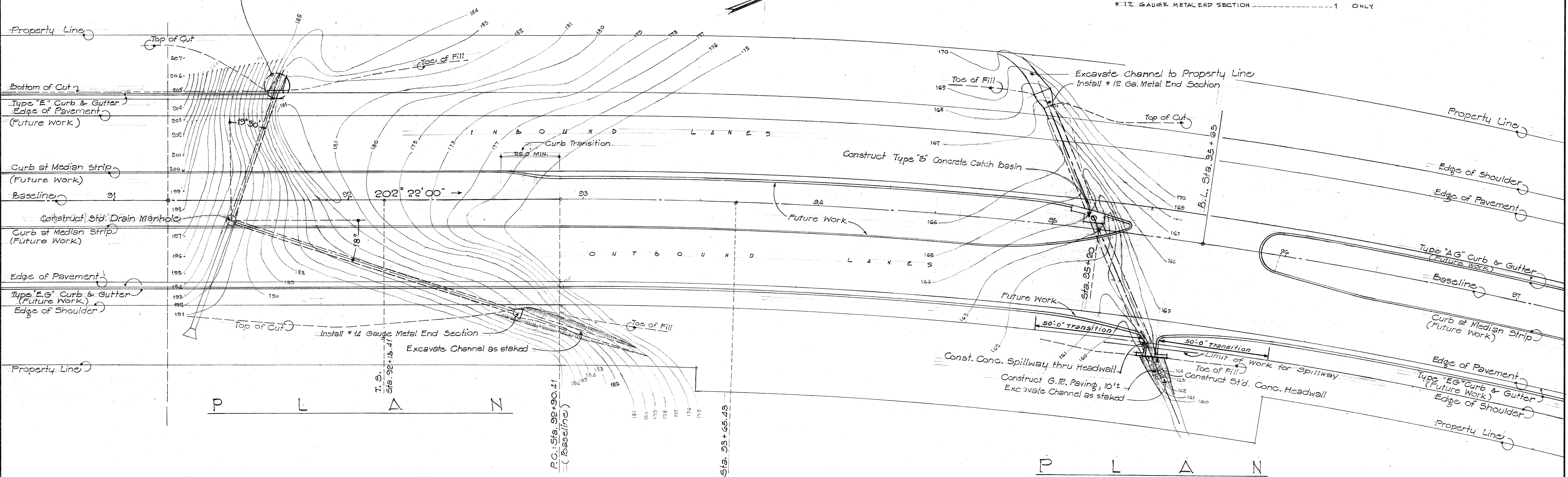
STRUCTURE EXC.	150	C.Y.
CHANNEL EXC.	64	C.Y.
#14 GAUGE 24" CORR. METAL PIPE CULVERT	179	LN. FT.
STD. DRAIN MANHOLE, 7.0' TO 7.99' DEEP	1	ONLY
(WITH TYPE "B" C.I. FRAME & COVER)		
CLASS B-1 CONCRETE (HEADWALL)	1.4	C.Y.
GROUTED RUBBLE PAVING	1.2	C.Y.
#14 GAUGE METAL END SECTION	1	ONLY

Construct Std Conc. Headwall
Eliminate Gutter Return at Headwall and depress two foot (2.0') portion of Concrete Gutter to provide Spillway over Headwall. Excavate Channel as staked.

ESTIMATED QUANTITIES

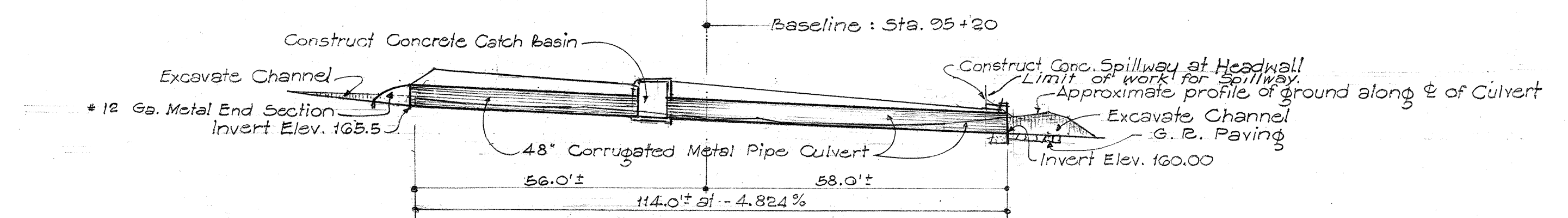
STRUCTURE EXC.	78	C.Y.
CHANNEL EXC.	30	C.Y.
12 GAUGE 48" CORR. METAL PIPE CULVERT	110 ±	LN. FT.
CLASS B-1 CONCRETE (HEADWALLS)	9.4	C.Y.
TYPE "B" CATCH BASIN, 7.00' TO 7.99' DEEP	1	ONLY
(CLASS A-1 CONCRETE)		
TYPE "B" C.I. FRAME & COVER	1	ONLY
GROUTED RUBBLE PAVING	2.2	C.Y.
#12 GAUGE METAL END SECTION	1	ONLY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5-0630(5)	1953	13	53



24" PIPE CULVERT AT STA. 91+50

SCALE: HORIZONTAL & VERTICAL, 1" = 20'



48" PIPE CULVERT AT STA. 95+20

SCALE: HORIZONTAL & VERTICAL, 1" = 20'

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

24" CORR. METAL PIPE B.L. STA. 91+50

48" CORR. METAL PIPE B.L. STA. 95+20

LIKELIKE HIGHWAY

FED. AID SECONDARY PROJ. No. S-0630 (5)

SCALE: 1 in. = 20 ft.

MAY 1957

SHEET NO. OF SHEETS

5905.19

ESTIMATED QUANTITIES

STEEL SCHEDULE

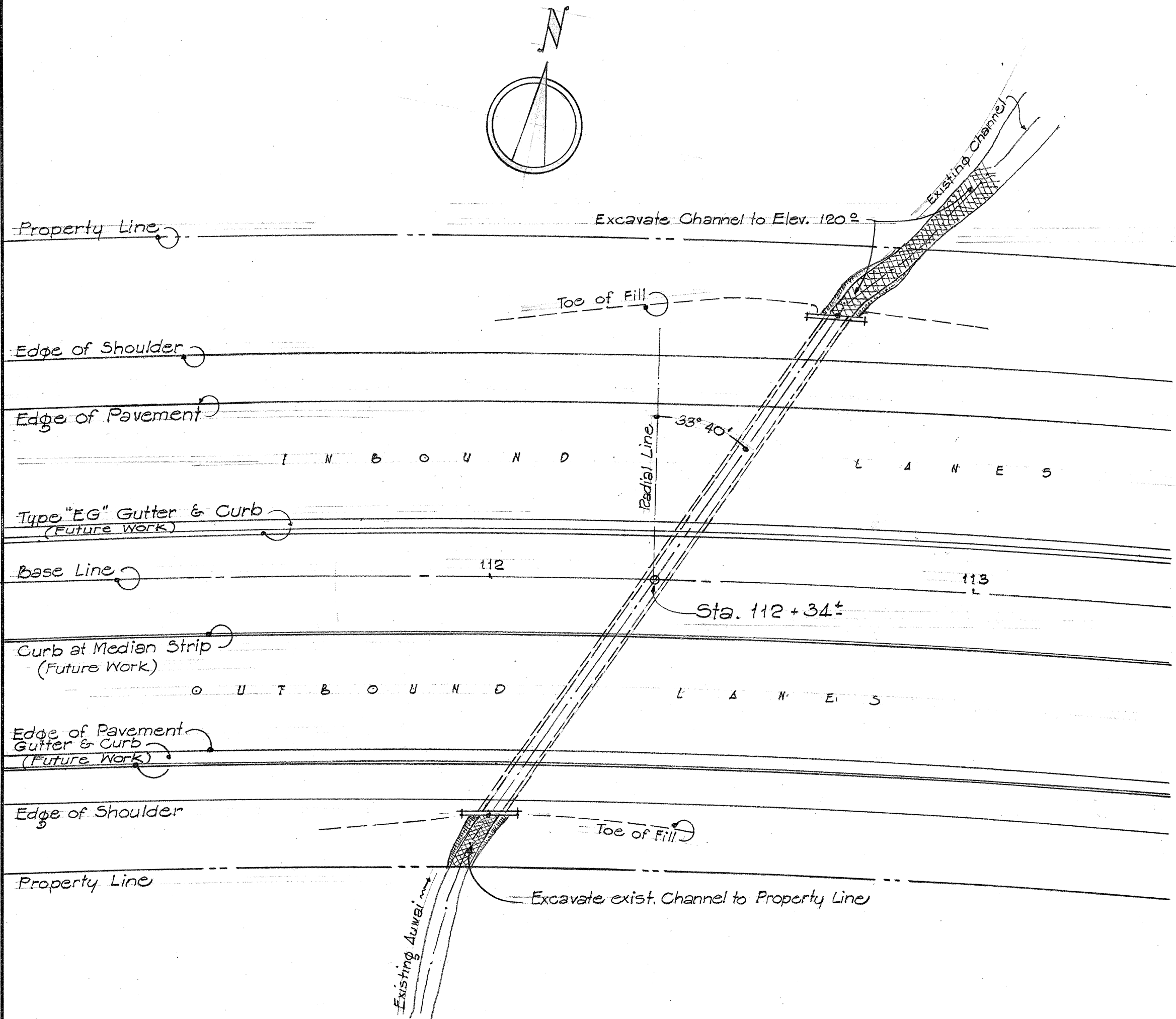
MK	DESCRIPTION	LENGTH	NO. OF BARS	TOTAL LENGTH	WT/FT	WEIGHT
401	4'-6"	4.5	726	3267	0.668	2182.0
401B	2'-9" 2x4	2.75	12	33	"	22.2
402	1'-4" 1'-4"	5.60	504	2822.4	"	1885.4
403	123'-8"	123.67	22	2720.7	"	1817.4
501	5'-4"	5.33	6	32	1.043	33.4
601	5'-4"	5.33	6	32	1.502	48.0
602	11'-8"	11.67	8	93.4	"	140.3
TOTAL WEIGHT IN POUNDS						6128.7

CONCRETE

CLASS "A-1" CONCRETE ----- 49.3 C.Y.
(QUANTITY NOTED INCLUDES HEADWALLS AS WELL AS TRUNK SECTION)

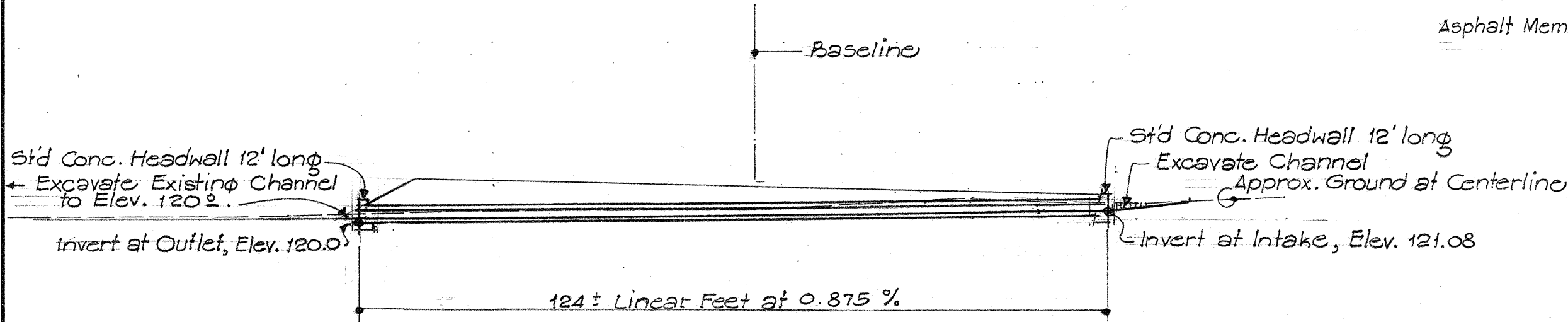
EARTHWORK

STRUCTURE EXCAVATION ----- 95.0 C.Y.
CHANNEL EXCAVATION ----- 10.0 C.Y.



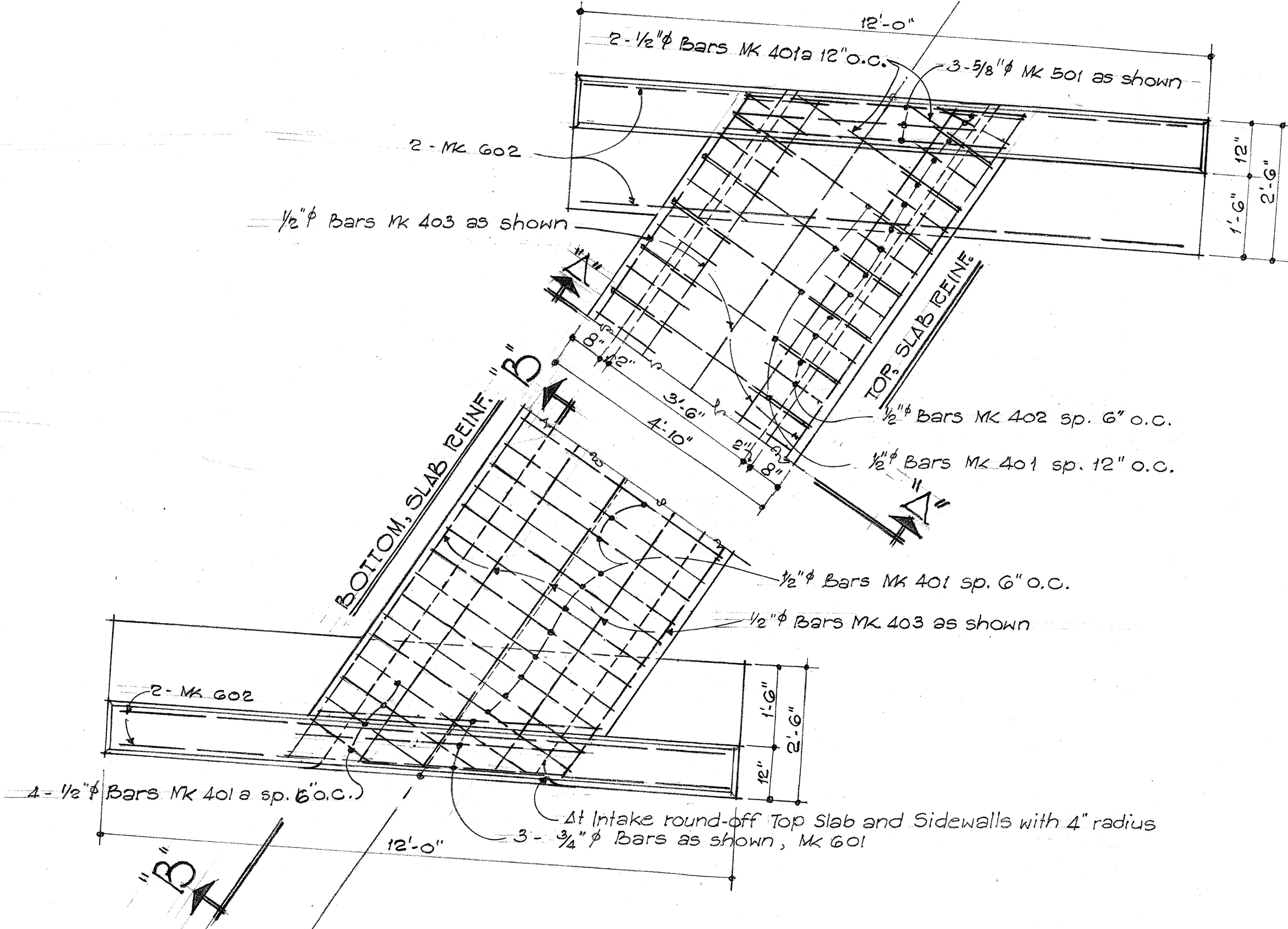
LAYOUT PLAN

SCALE: 1 INCH = 20 FEET



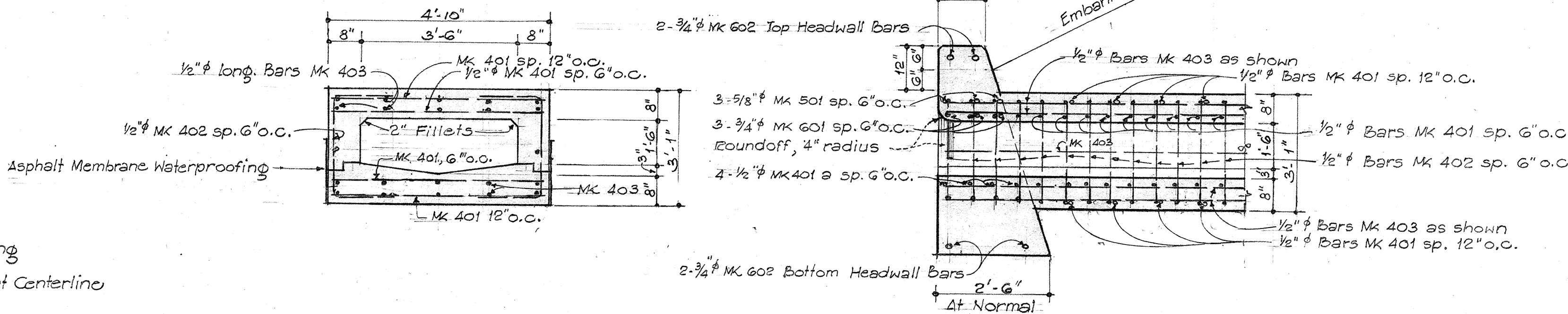
SECTION AT CENTERLINE

SCALE: HORIZONTAL & VERTICAL, 1 INCH = 20 FEET



SLAB REINF.

SCALE: 1/2" = 1'-0"
REINF. BARS TO CLEAR CONC. BY 2" MIN.



SECTION "A-A"

SCALE: 1/2" = 1'-0"

SECTION "B-B"

SCALE: 1/2" = 1'-0"

3'-6" x 1'-6" CONC. BOX CULVT. AT STA. 112+34.1

SCALE: AS NOTED

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

3'-6" x 1'-6" CONCRETE BOX
CULVERT AT B.L. STA. 112+34

LIKELIKE HIGHWAY
FED. AID SECONDARY PROJ. No. S-0630 (5)
SCALE: AS NOTED MAY 1957

SHEET NO. OF SHEETS

5905.20

SURVEY PLOTTED BY
DATE
DESIGNED BY
PLAN
DRAWN BY
TRACED BY
QUANTITIES CHECKED BY
NOTE BOOK
No.