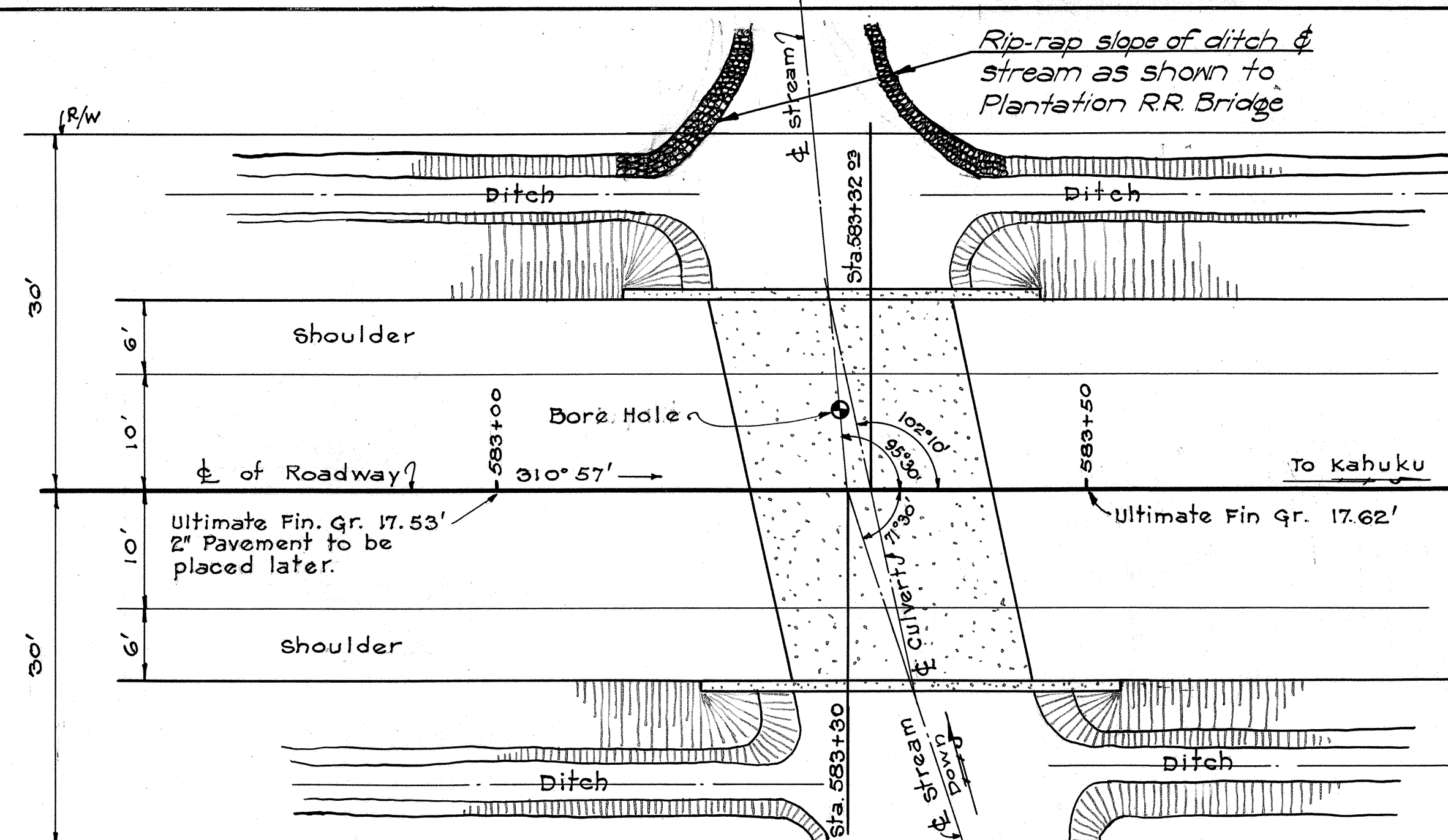
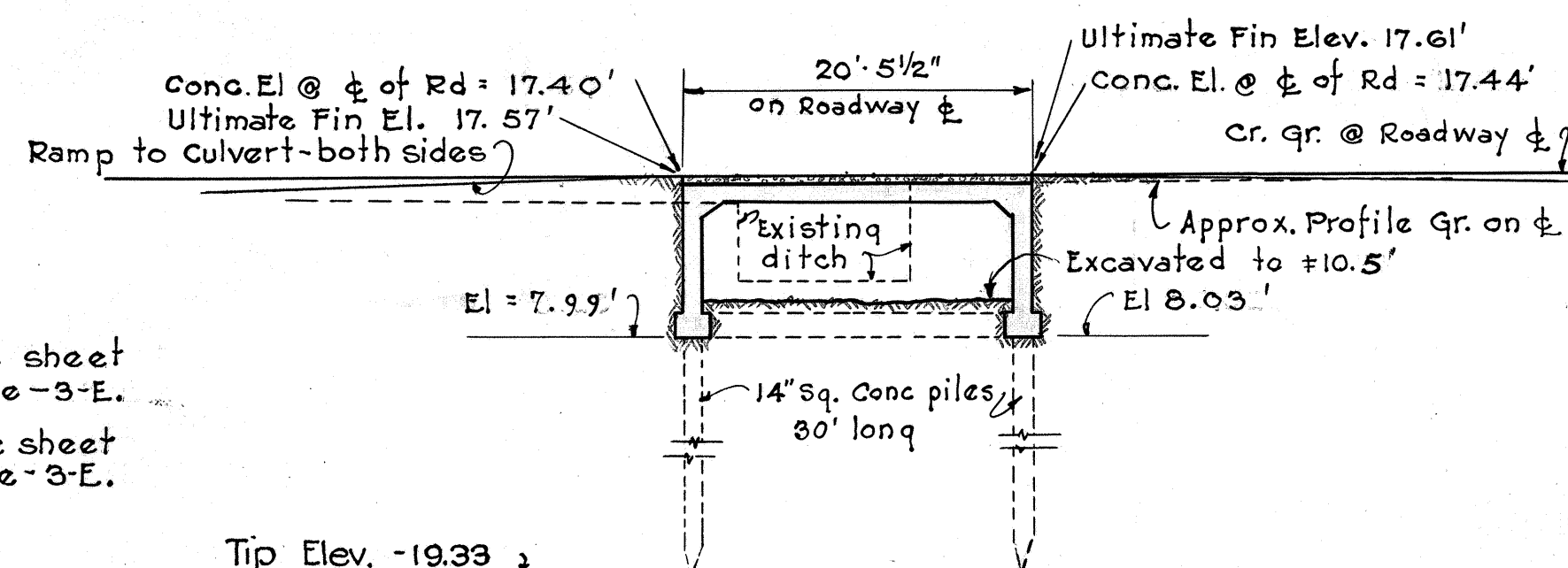
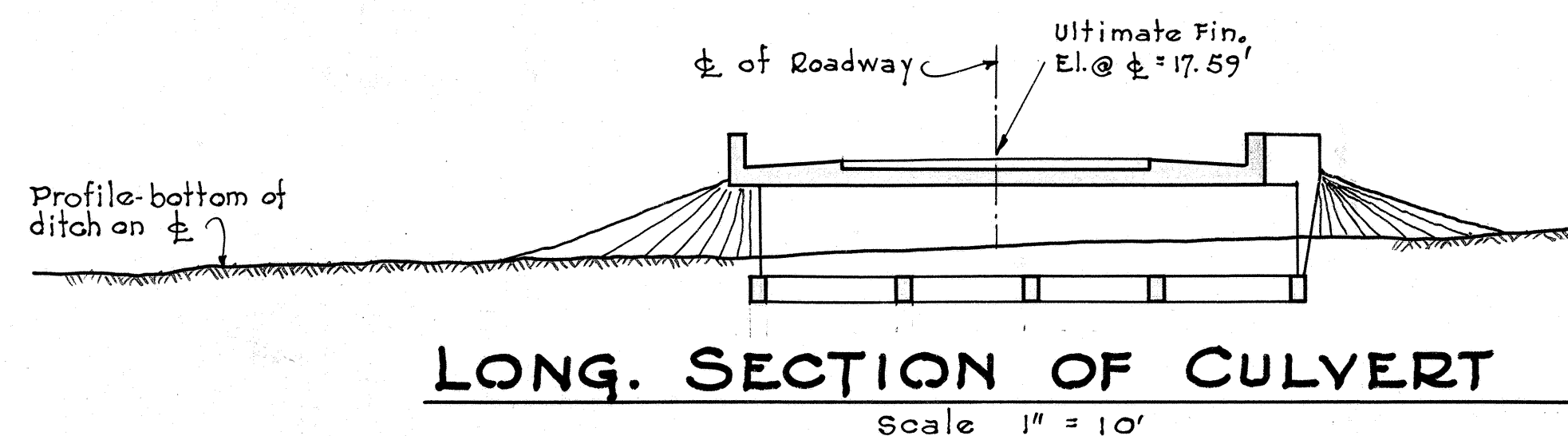




LAYOUT PLAN
Scale - 1" = 10'



SECTION ON CL OF ROADWAY
Scale 1" = 10'



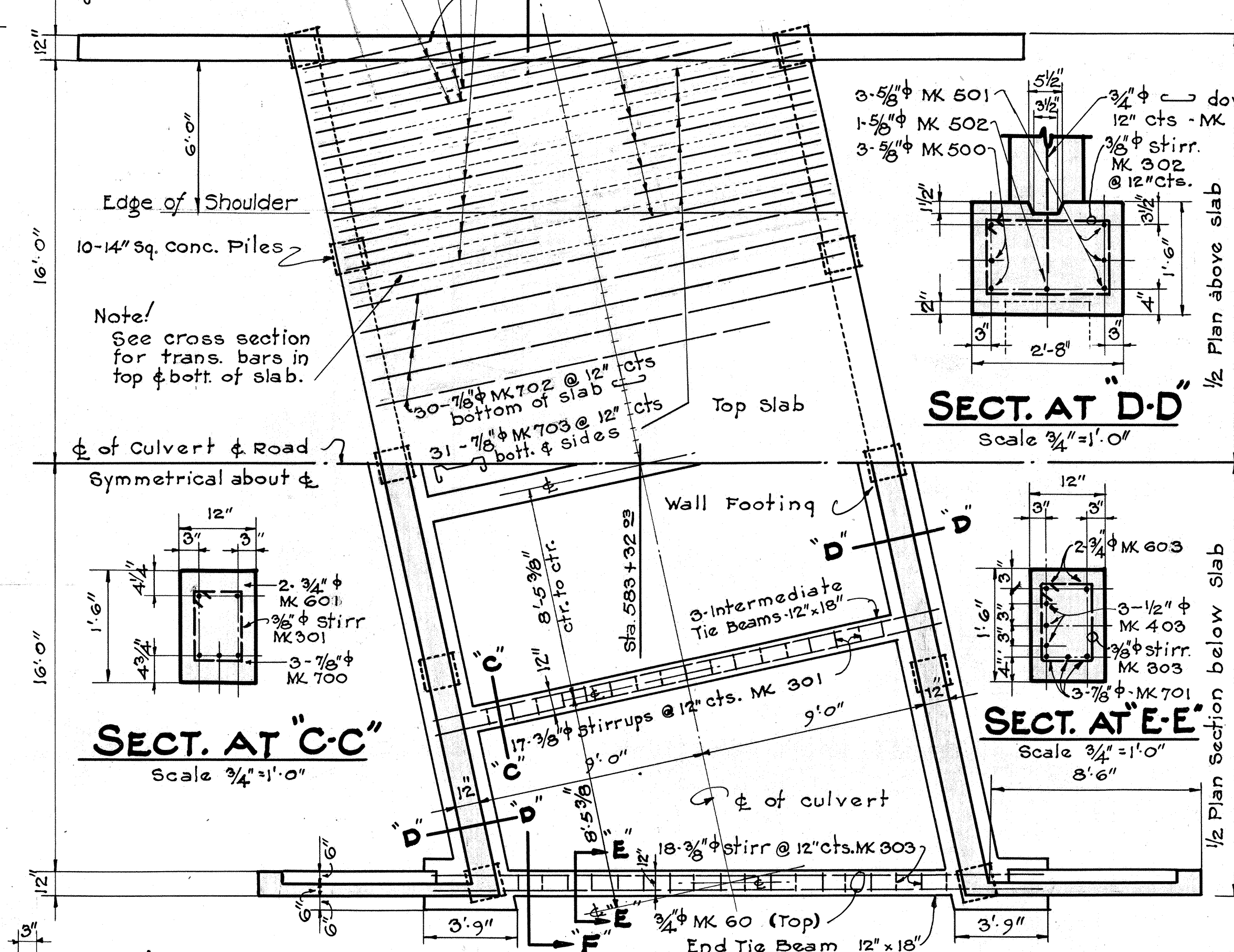
LONG. SECTION OF CULVERT
Scale 1" = 10'

BORING DATA

DATE	BY	NO.	DEPTH	SOIL
11.4'				Soft mud, soil, etc.
8.9'				clay
2.9'				
0.0'				Compact clay
-20.1'				Compact clay & coral mixed
-25.8'				Same sand mixed
-30.0'				Very compact clay
-34.7'				Compact mudrock

Size	Type	MK	A	B	C	D	E	F	G	Total Lgth
7/8"	U	702	15"	19'-0"						21'-6"
1"	U	703	15"	12'-6"	2'-9"	12'-3"	4'-0"			30'-9"
1 1/4"	U	704	15"	15"	7'-2"					22'-3"
1 1/2"	U	601	13"	20'-11"						22'-3"
1 3/4"	U	700	15"	20'-7"						22'-3"
1 1/2"	U	500		32'-3"		15"	102"	78"		34'-9"
1 1/4"	U	501		35'-3"		3'-0"				41'-3"
1 1/2"	U	502		34'-9"		2'-0"				38'-0"
1 3/4"	U	602	13"	2'-11"						4'-3"
1 1/2"	U	403	8"	21'-3"		10'-0"	220"	220"		41'-6"
1 1/4"	U	603	13"	20'-8"						22'-10"
1 1/2"	U	701	15"	20'-0"						22'-6"
1 3/4"	U	705	15"	19'-0"		11'-0"	3'-2"			22'-0"
1 1/2"	U	405	8"							15'-6"
1 1/4"	U	407		1'-9"		10'-0"	222"			11'-9"
1 1/2"	U	706	15"		5'-7 1/2"	8'-10 1/2"				17'-0"
1 3/4"	U	408			3'-6"	2'-3"	2'-0"			7'-9"
1 1/2"	U	707	15"	11'-3"						13'-9"
1 3/4"	U	708	15"		7'-8"	7'-1"				17'-3"

(3 each end) 6-7/8" ϕ MK 707 bottom bars @ 12" cts. length varies
(3 each end) 6-7/8" ϕ MK 708 bottom bars @ 12" cts. length varies
60-7/8" ϕ MK 704 @ 12" cts sides & top.

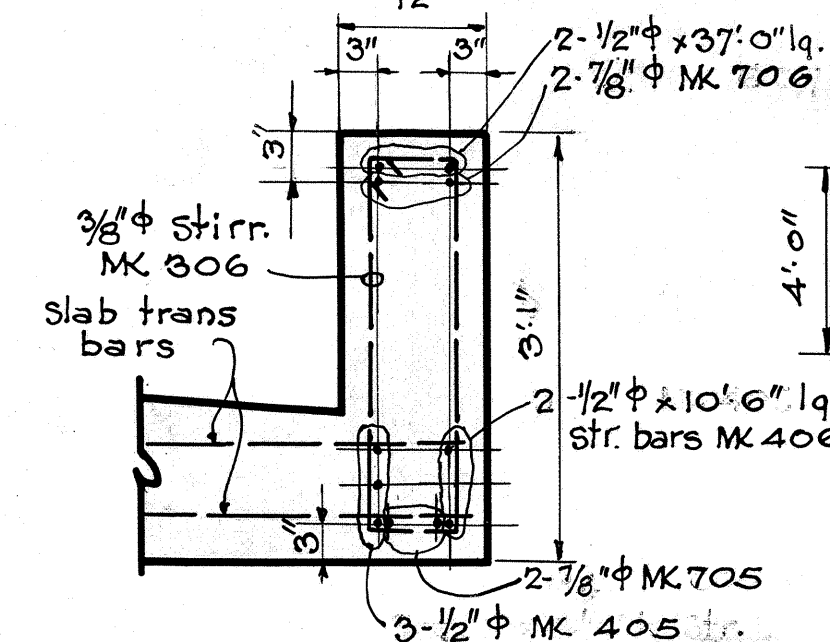


BROKEN PLAN OF CULVERT
Scale 1/4" = 1'-0"

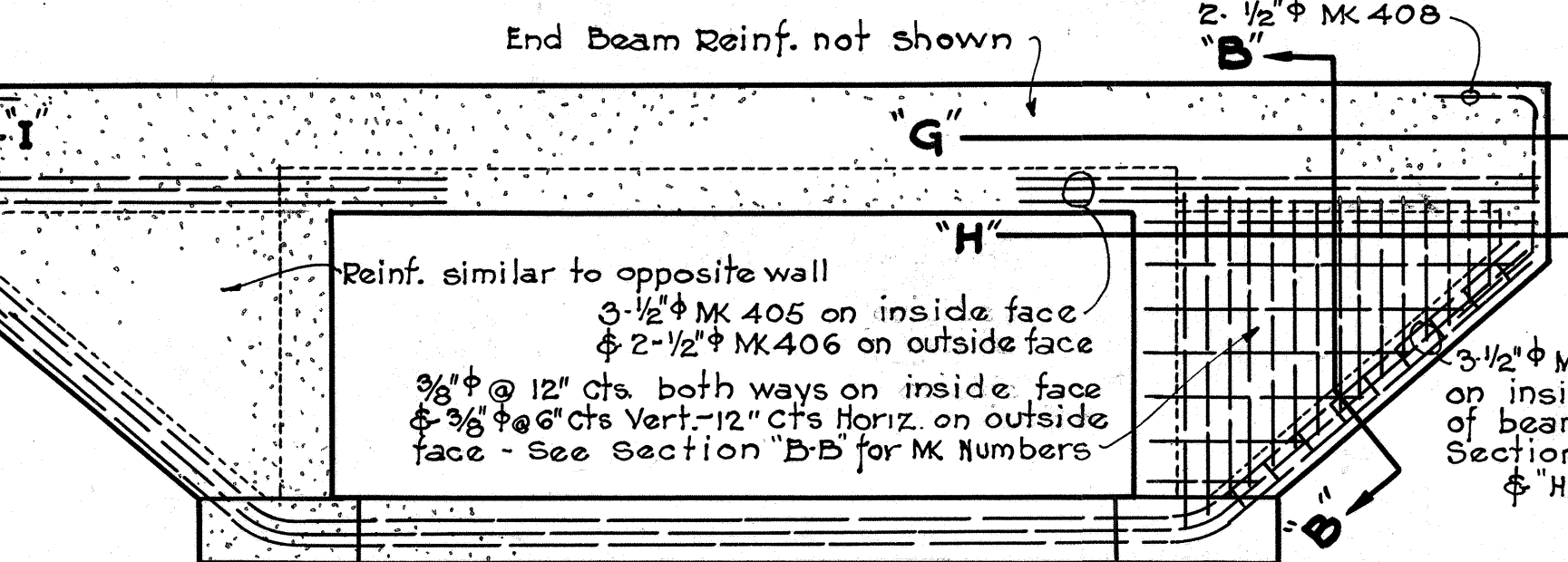
STIRRUPS

MK	A	B	C	Total L.
301	7"	10"	4"	3'-6"
302	2 1/2"	11 1/4"	3"	5'-6"
303	7"	12"	3 1/2"	3'-9"
306	7"	2'-9"	3 1/2"	7'-3"
307	7"	6 3/4"	4"	3'-0"

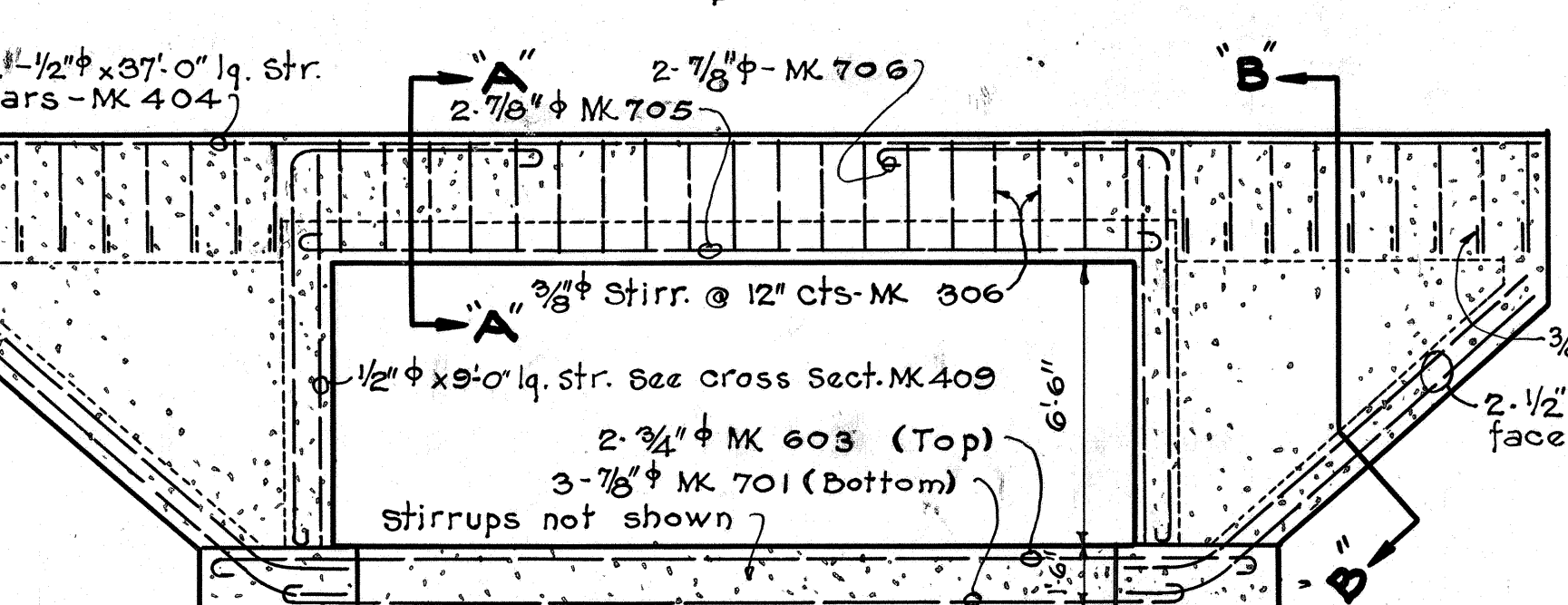
All 3/8" ϕ



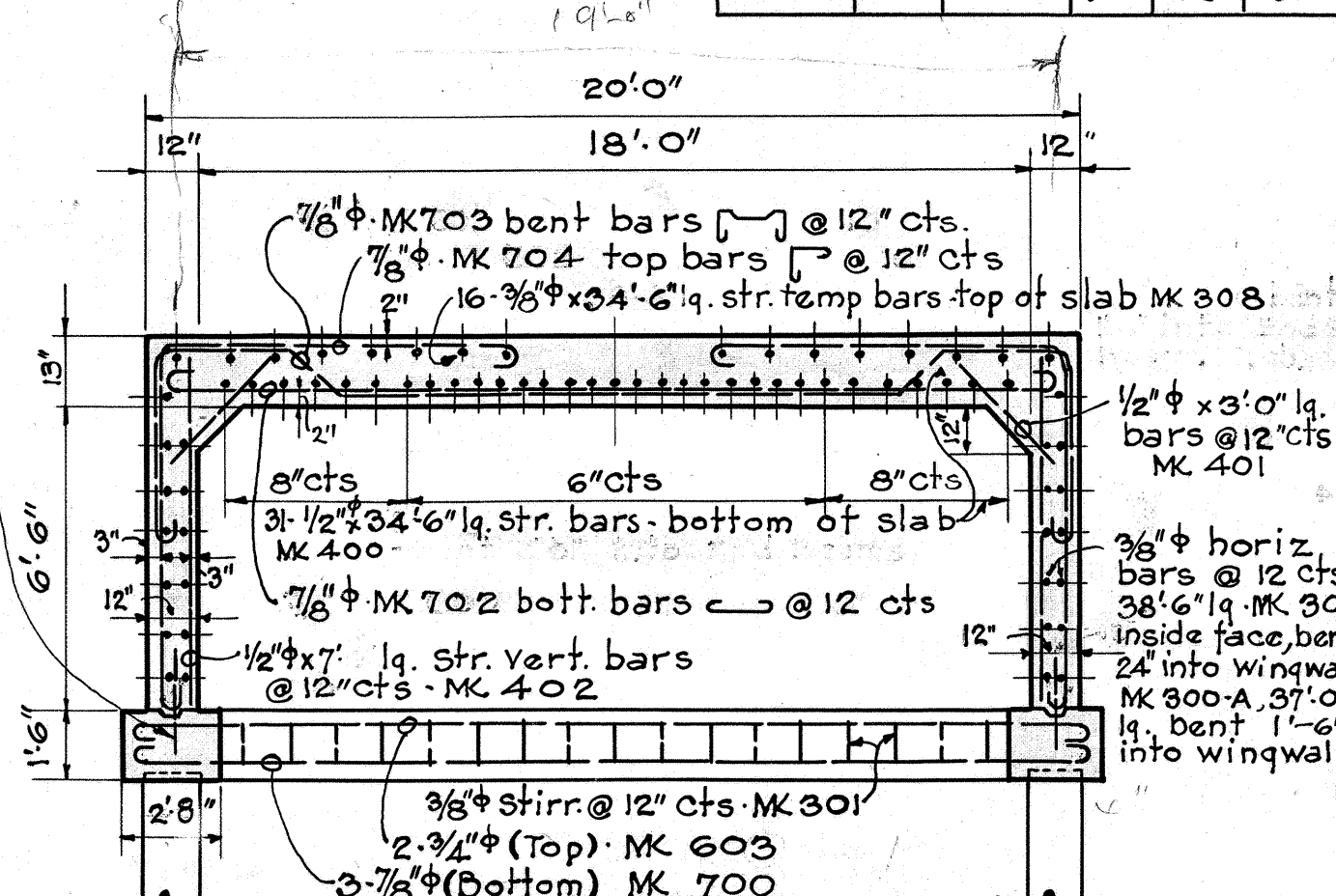
SECT. AT 'A-A'
Scale - 3/4" = 1'-0"



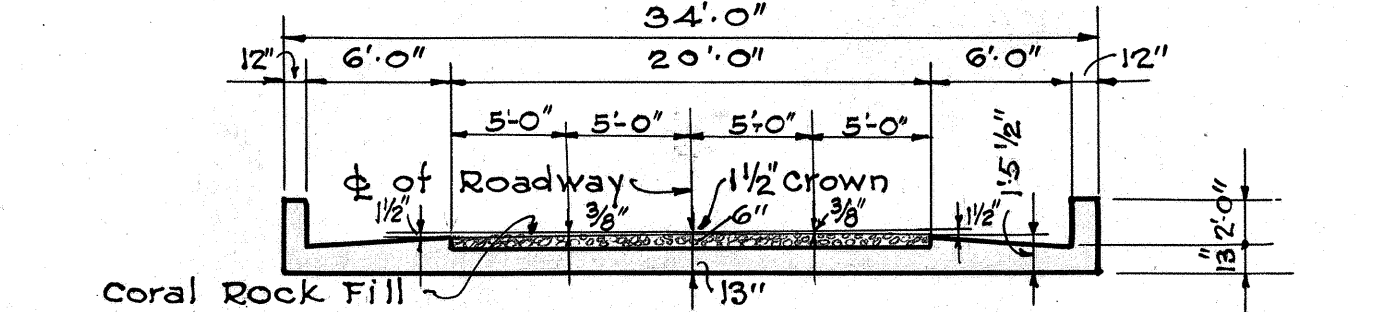
END ELEVATION
Scale 1/4" = 1'-0"



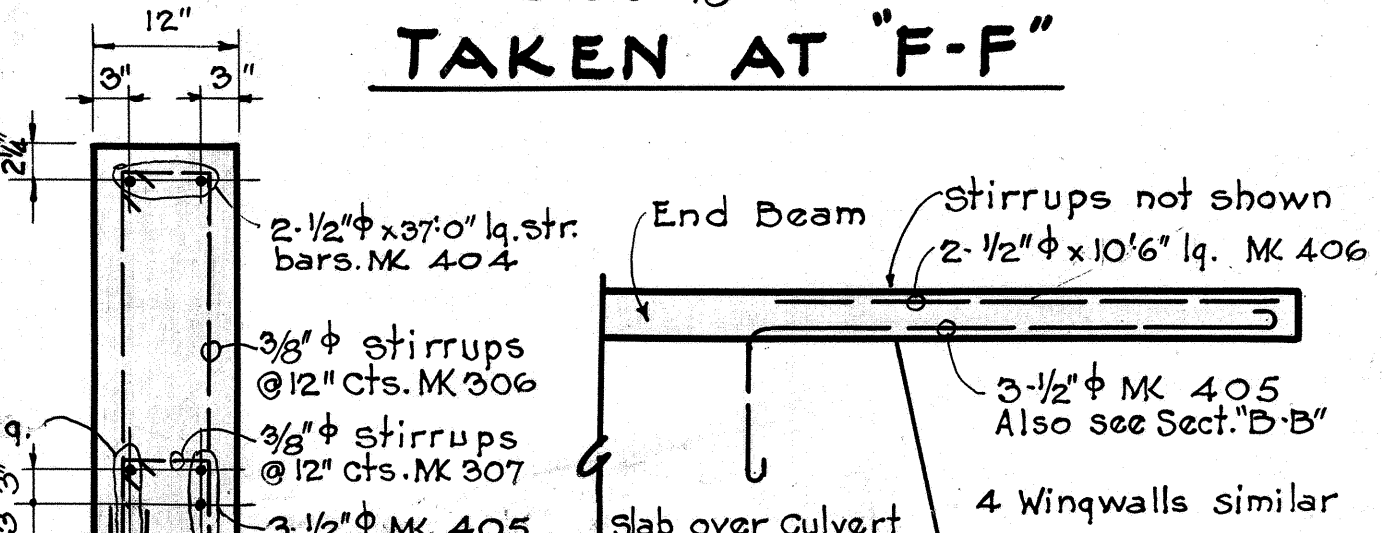
END BEAM REINFORCING
Scale 1/4" = 1'-0"



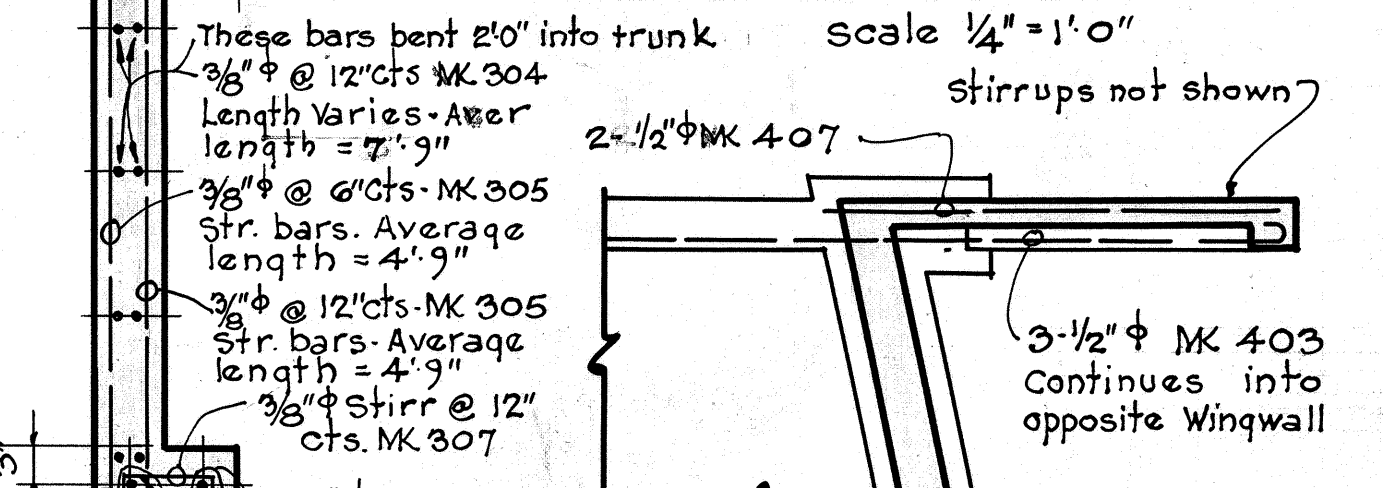
TYPICAL CROSS SECTION
Scale 1/4" = 1'-0"



LONG. SECTION THRU SLAB
Scale 1/8" = 1'-0"



PLAN SECT. AT 'G-G'
Scale 1/4" = 1'-0"



PLAN SECT. AT 'H-H'
Scale 1/4" = 1'-0"

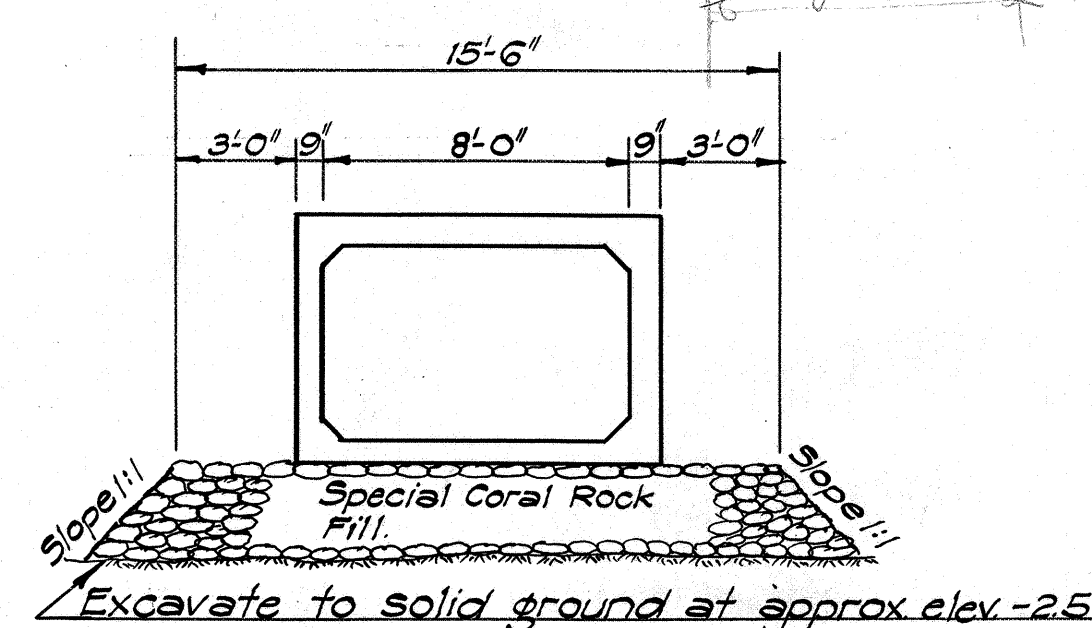
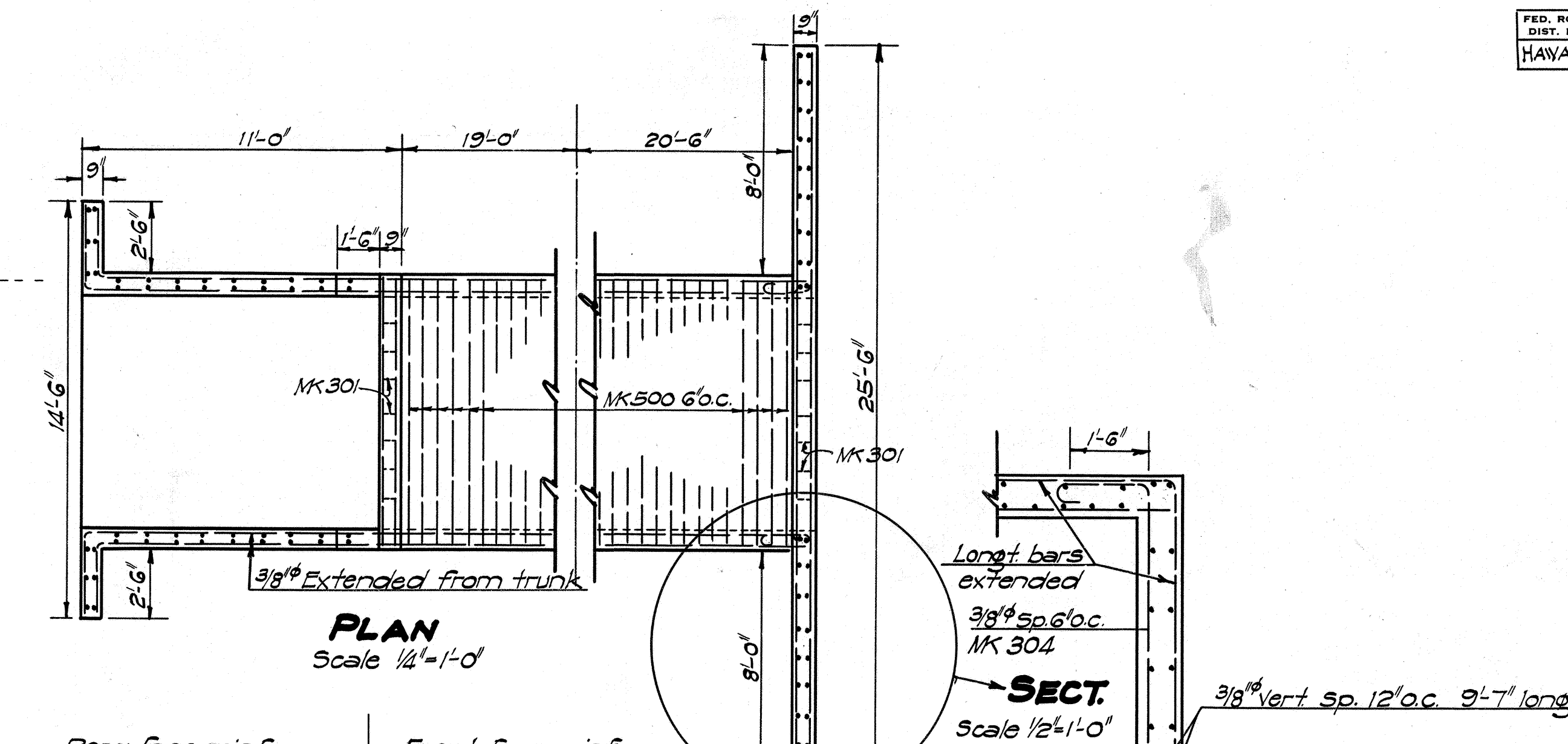
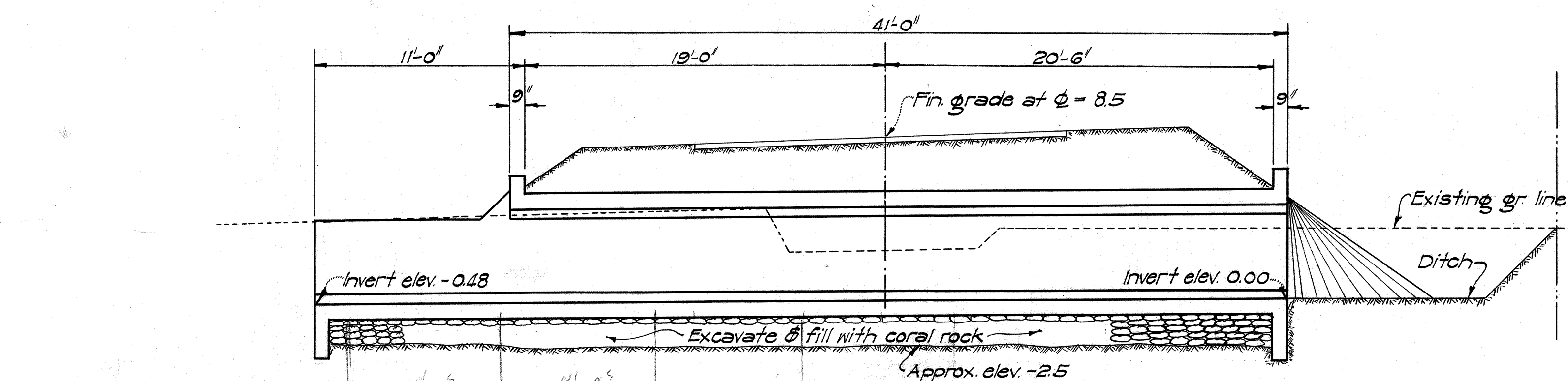
SECTION AT 'B-B' THRU WINGWALL

Scale 3/4" = 1'-0"

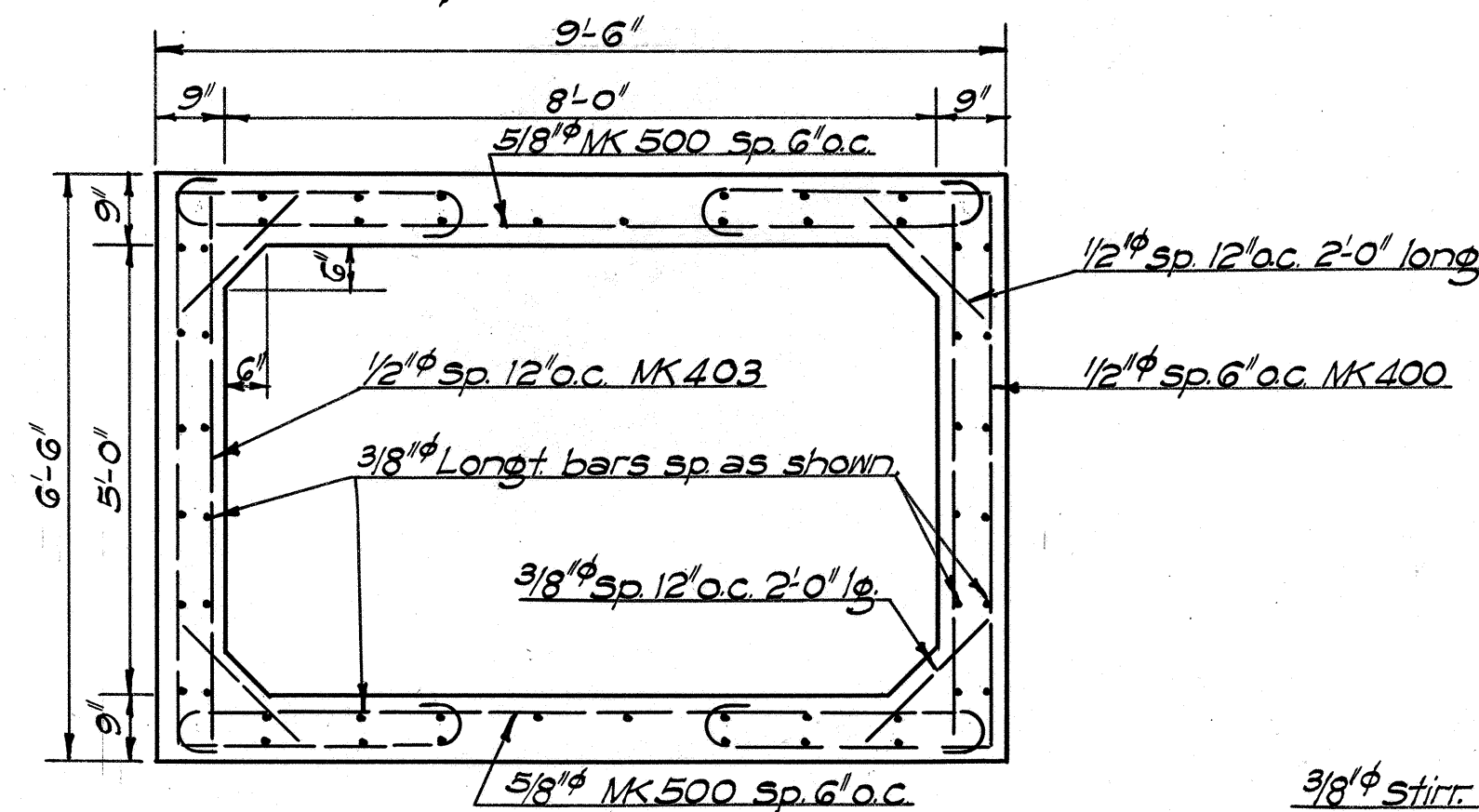
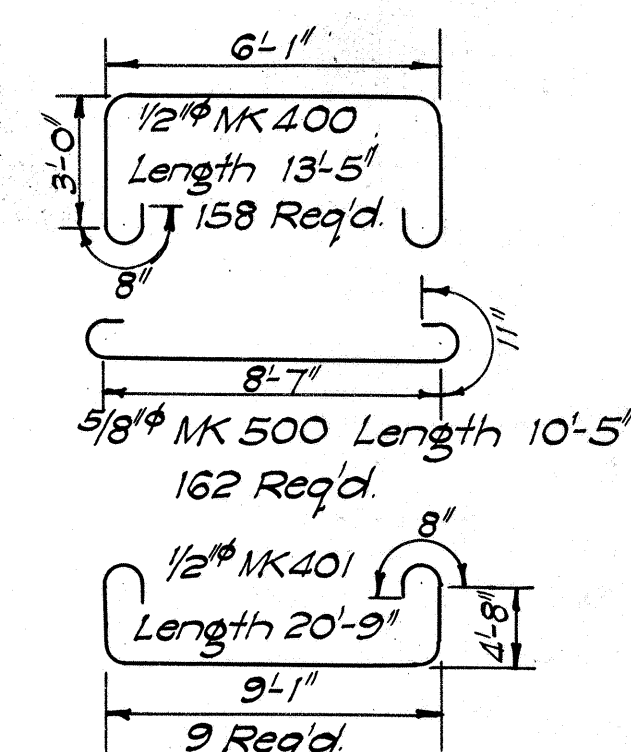
ITEM	AMOUNT
Unclassified Exc.	229.0 Y.
Structural Exc.	85 C.Y.
14"x14" Conc. Piles	10
Class 'A' Concrete	744 C.Y.
Reinf. Steel	11,733 lbs

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
CONCRETE CULVERT DETAILS
BETWEEN STA. 583+21.82 & 583+42.86
KAMEHAMEHA HIGHWAY
SHEET NO 1 OF 1 SHEETS

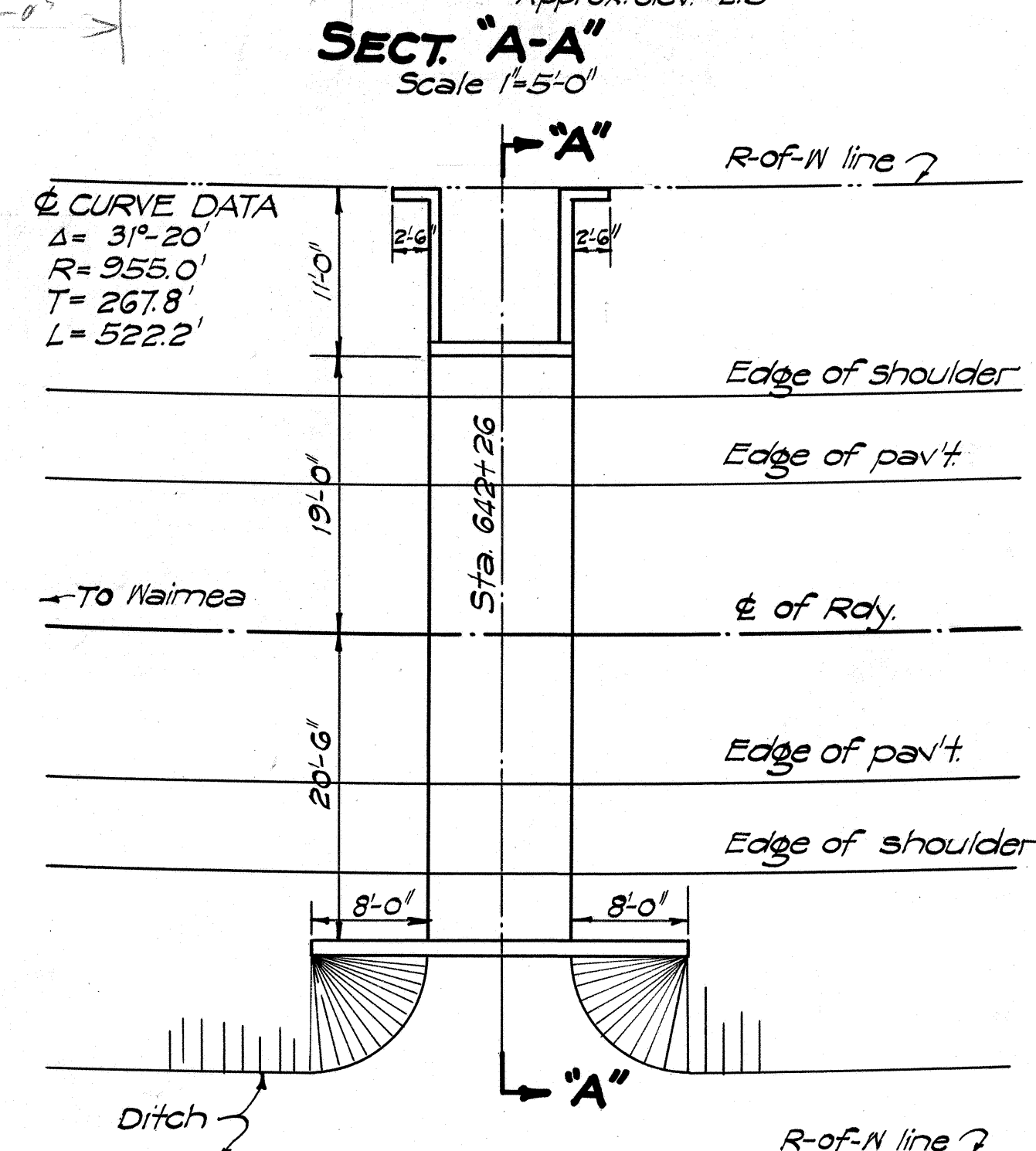
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOT SHEETS
HAWAII	HAW.	3 E	1936	13	3



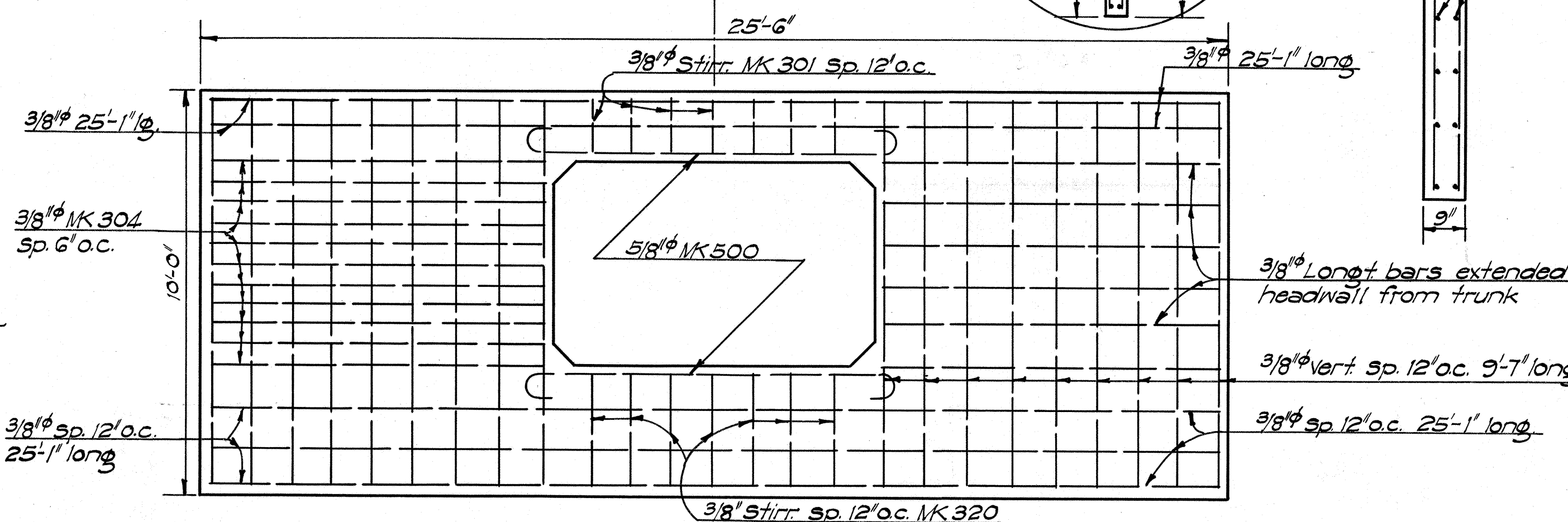
**SECT. SHOWING SPECIAL
ROCK FILL**
Scale 1" = 5'-0"



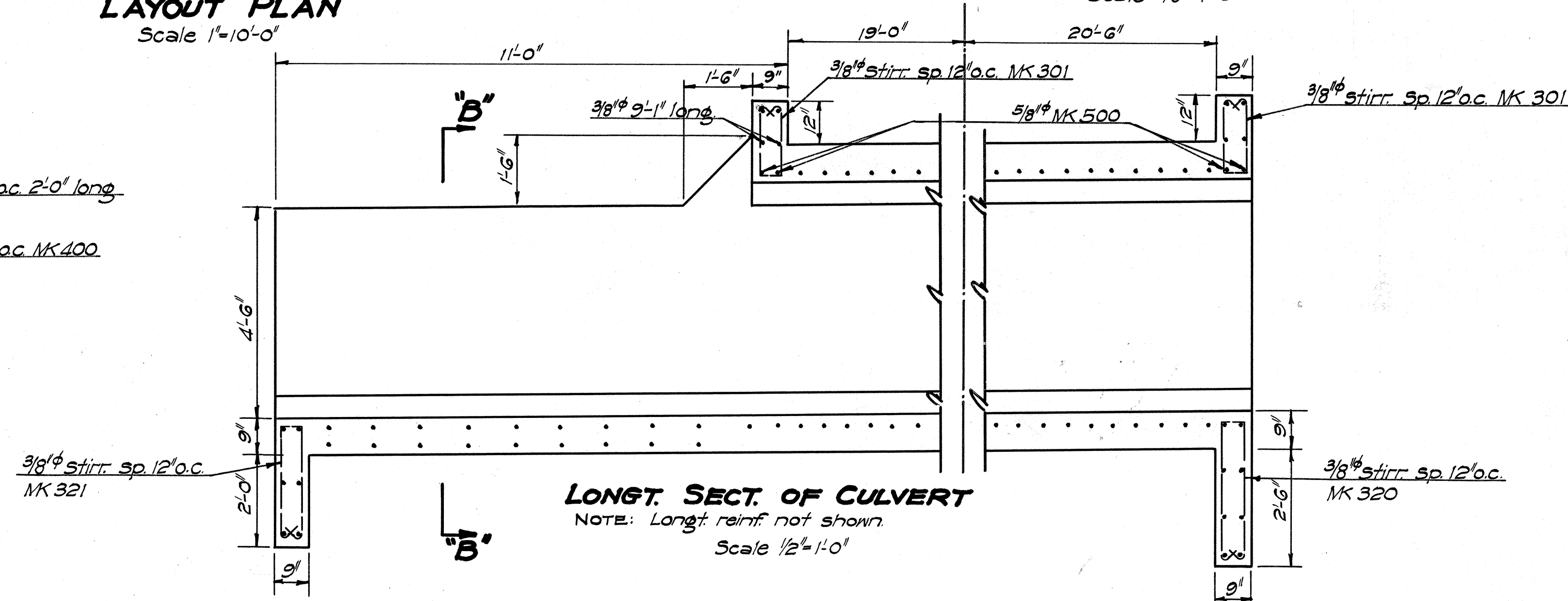
TYPICAL SECT. THRU TRUNK
Scale $1/2" = 1'-0"$



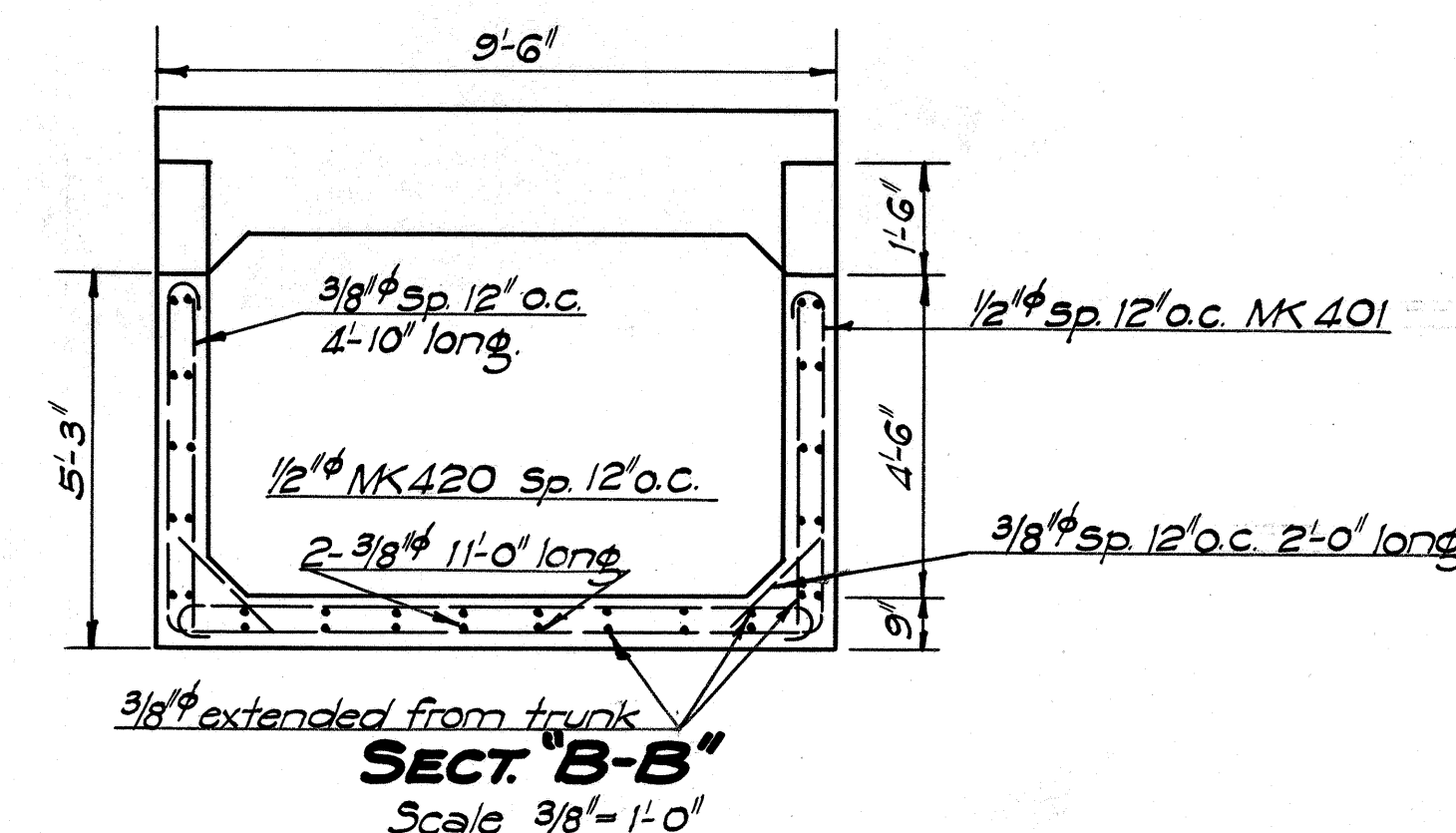
LAYOUT PLAN
Scale 1"=10'-0"



ELEV. OF HEADWALL
Scale $3/8" = 1' - 0"$



LONGT. SECT. OF CULVERT
NOTE: Longt. reinf. not shown.
Scale $\frac{1}{2}" = 1'-0"$



SECT. "B-B"
Scale $3/8" = 1'-0"$

QUANTITIES

Class "A" Conc. 47.0 Cu. Yds.
Reinf. Steel 5,300.0 lbs.
Structure Exc. 260.0 Cu. Yds.
Special Coral Rock Fill. 50.0 Cu. Yds.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
5'x8' CONC. BOX CULVERT
Sta. 642+26
KAMEHAMEHA HIGHWAY F.A.P. 3-E

SUPERCEDED BY SHEET 4368.13A

SHEET N^o / OF / SHEETS

4368.13

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

