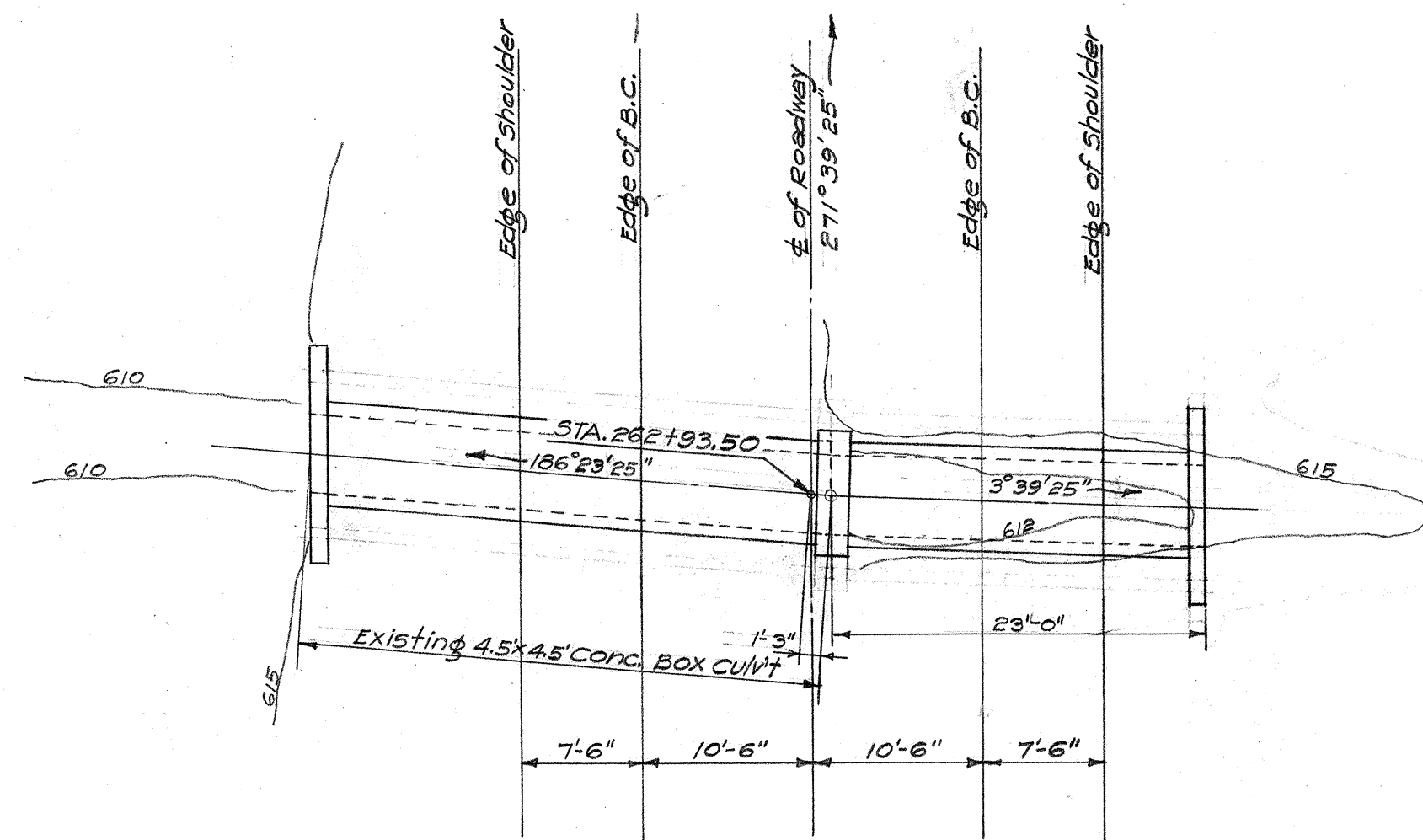
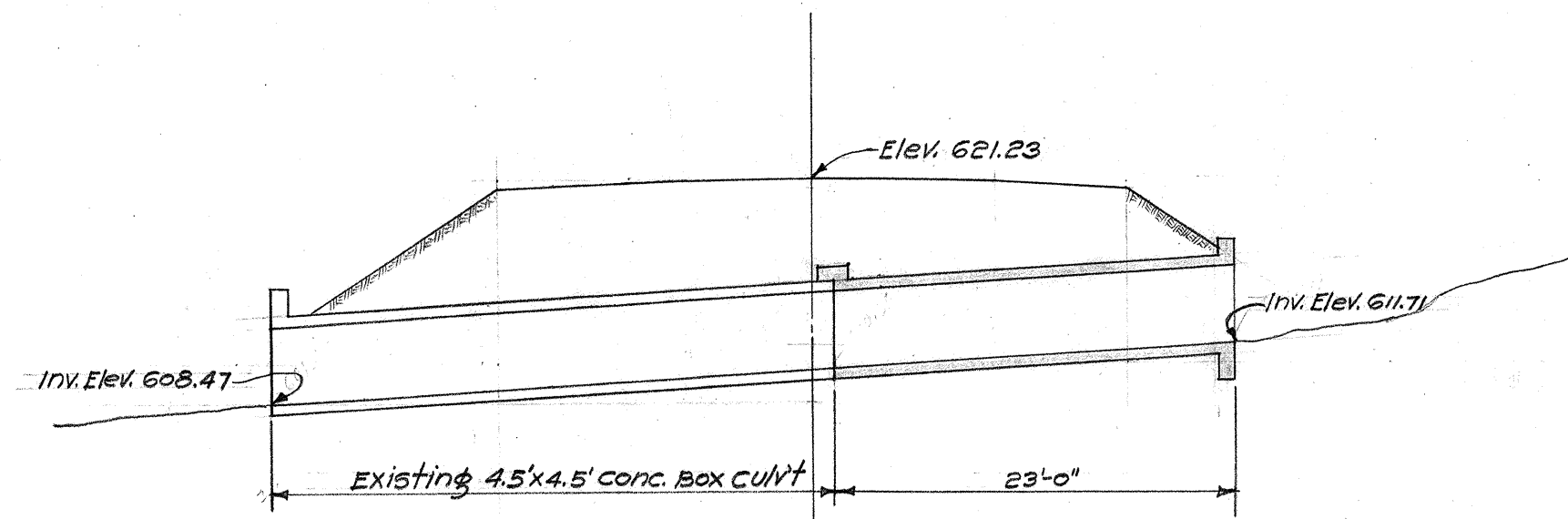


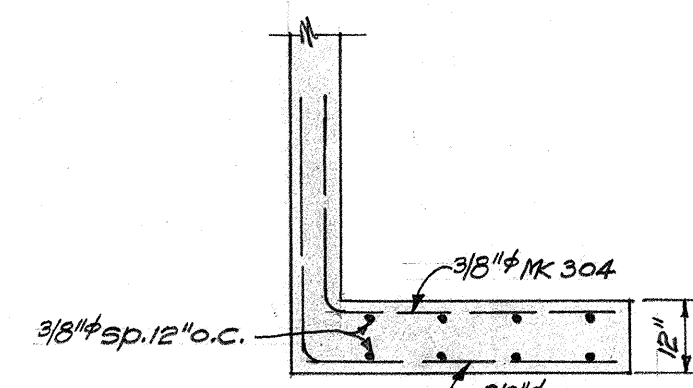
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	27A(1)	1938	10	20



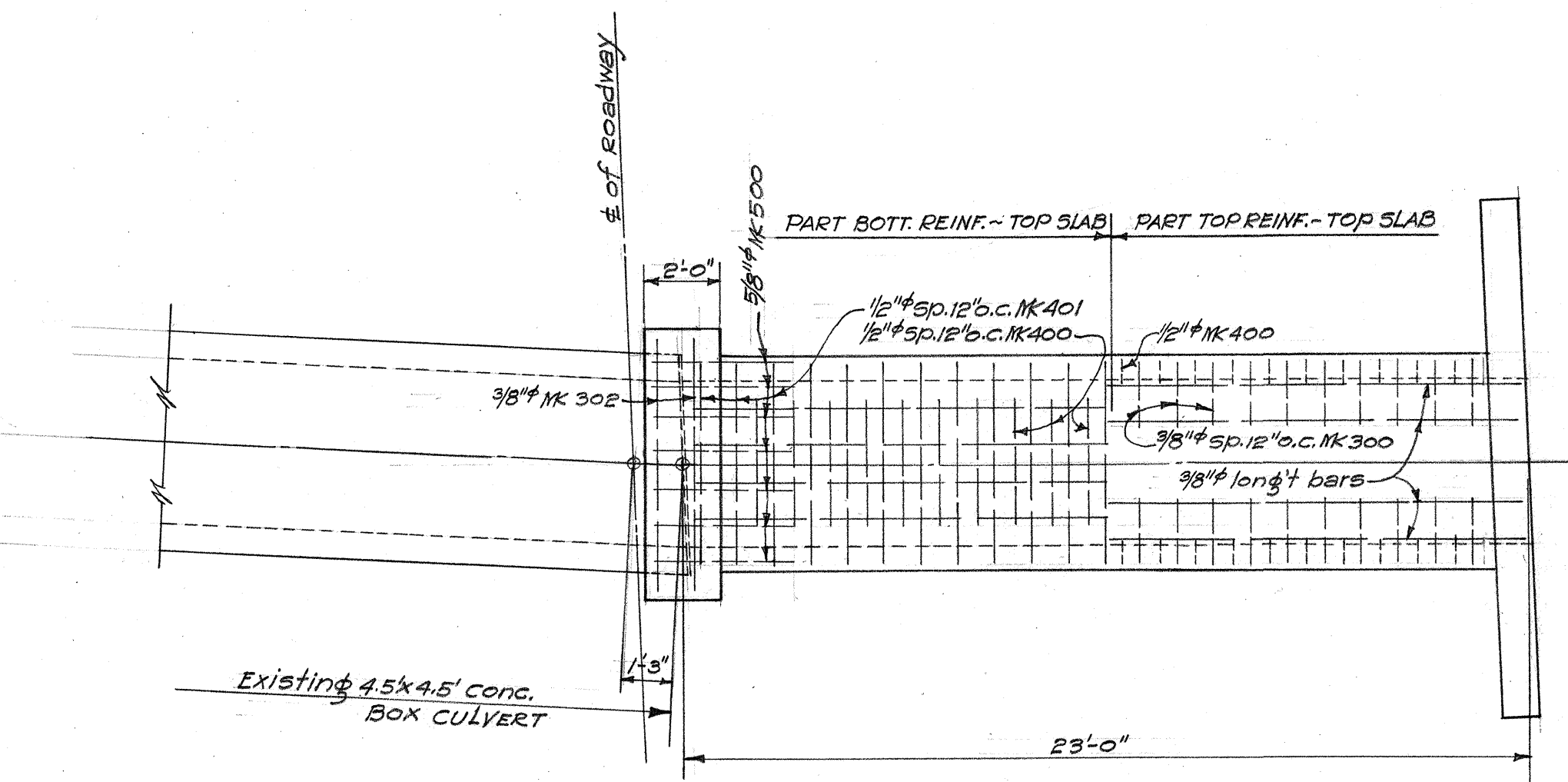
LAYOUT PLAN
Scale 1"=10'



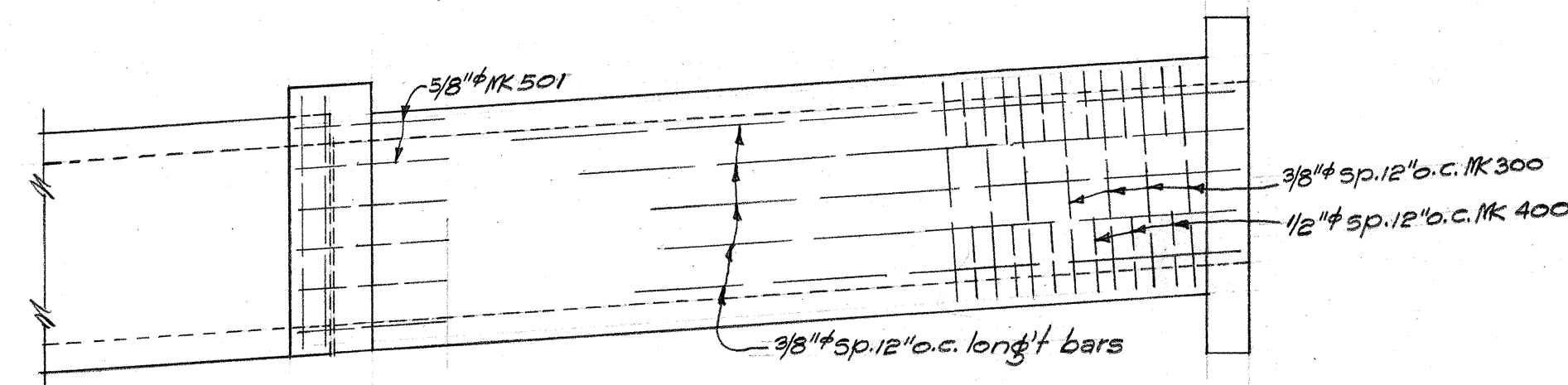
SECT. ALONG & OF CULVERT
Scale 1"=10'



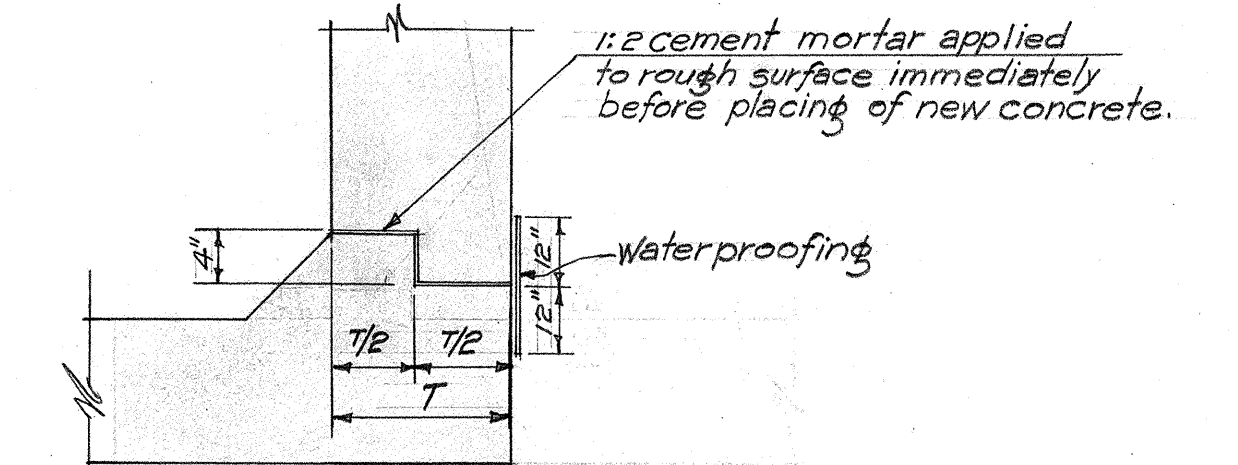
SECT. X-X
3/8" Scale



PLAN
1/4" Scale

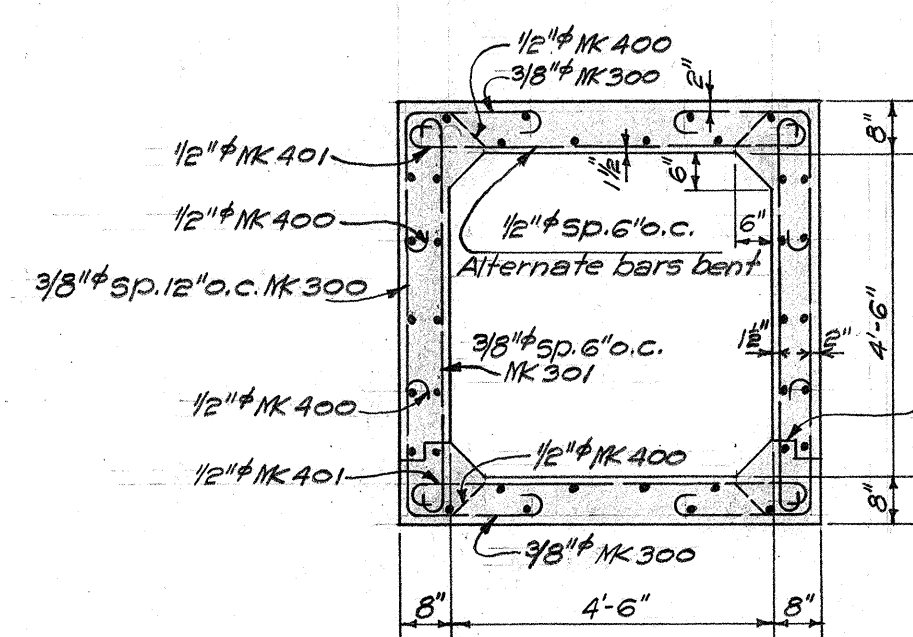


ELEVATION
1/4" Scale



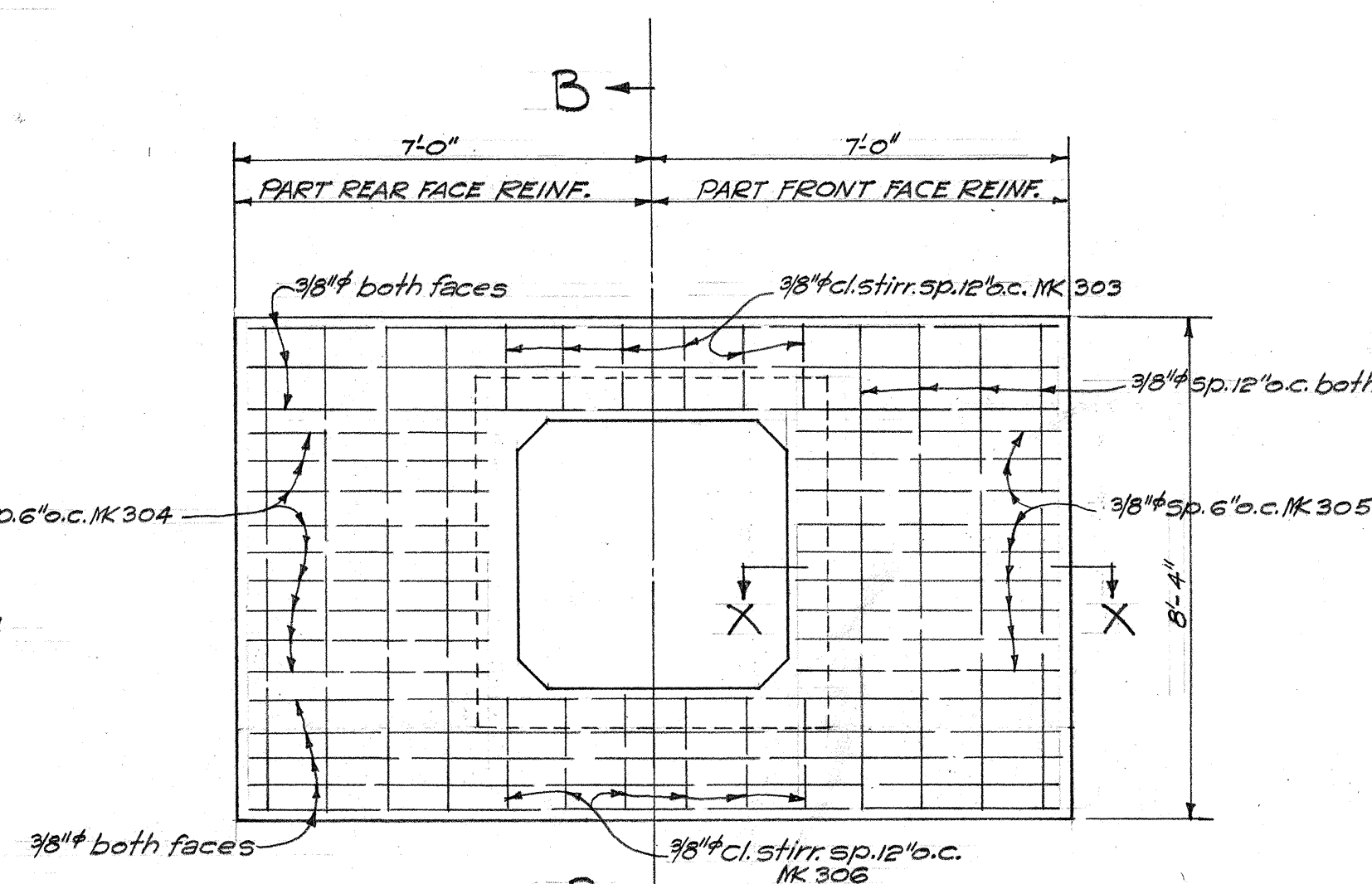
CONSTR. JOINT DETAIL

- METHOD OF APPLYING CONSTR. JOINT WATERPROOFING
- FIRST: Map surface 18" either side of joint with asphalt, 85-100 penetration, applied at 200°F.
 - SECOND: Apply one layer of 2-ply roofing paper lapping 12" either side of joint to hot asphalt; then mop entire surface with a thick coat of hot asphalt.

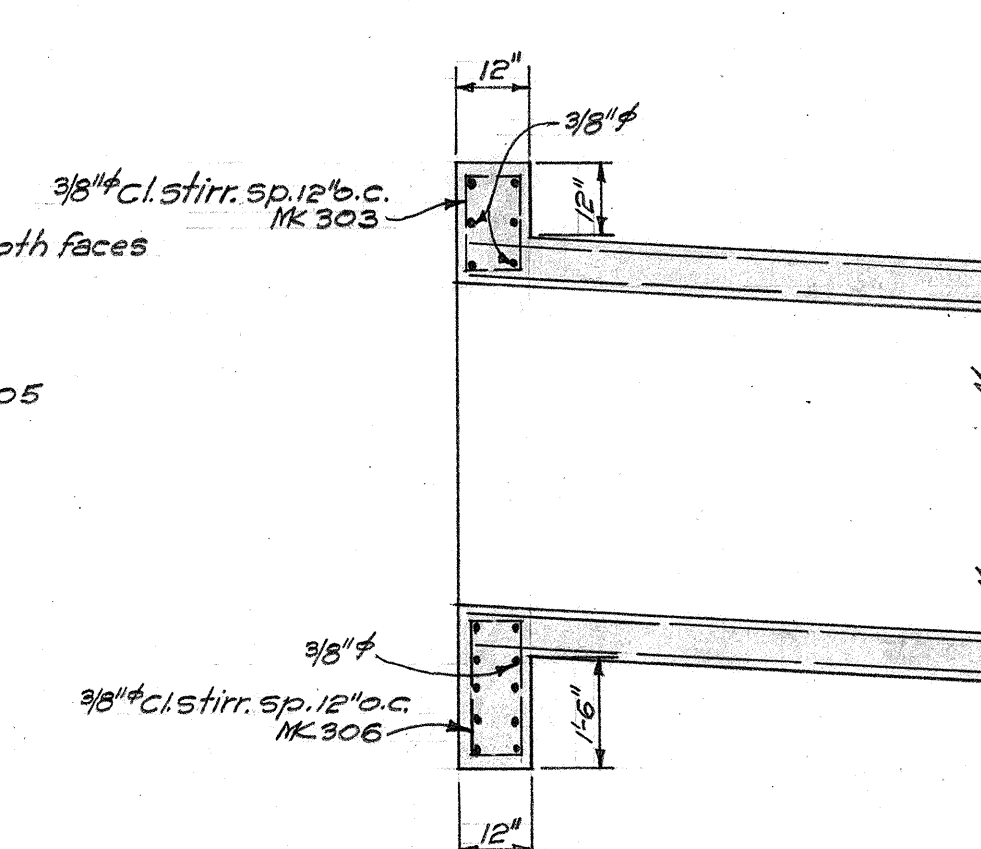


NORMAL SECT.
3/8" Scale

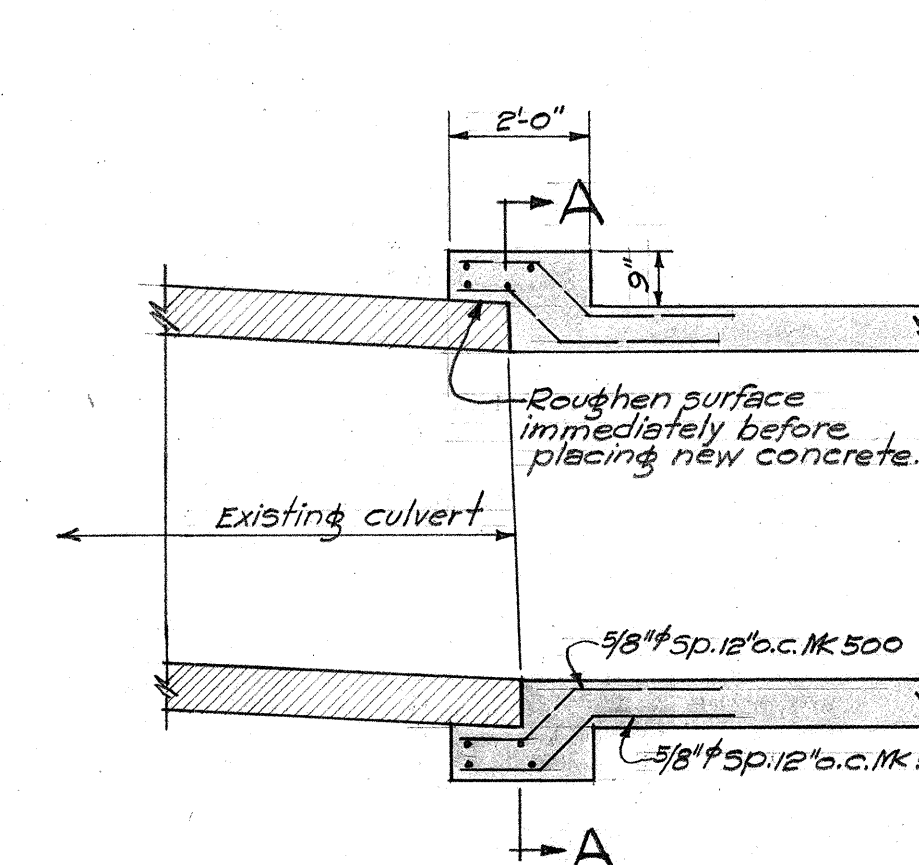
Note!
All long't bars 3/8" sp. 12" o.c.



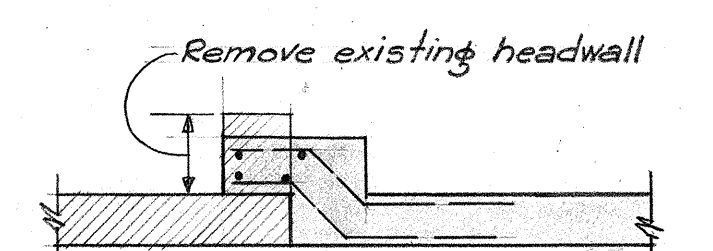
HEADWALL REINF. INLET END
3/8" Scale



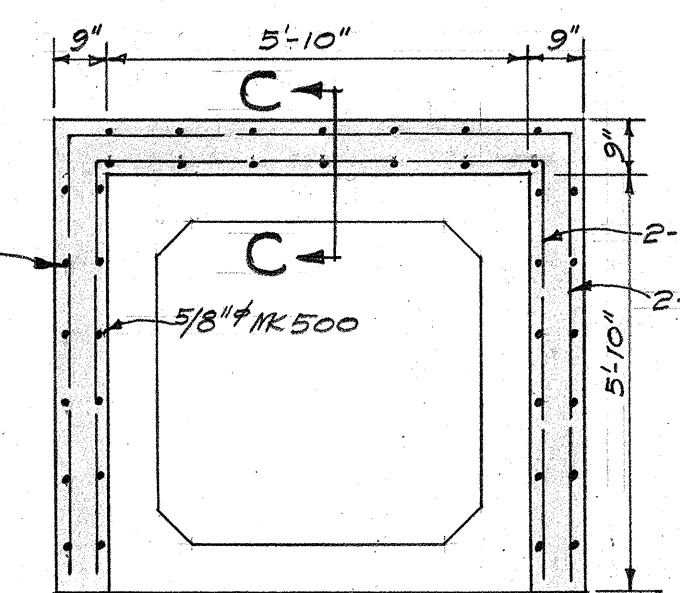
SECT. B-B
3/8" Scale



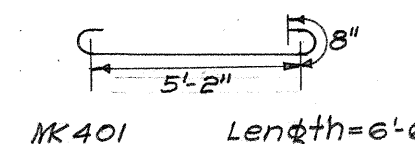
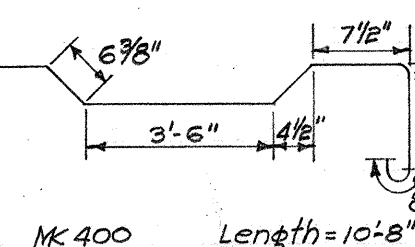
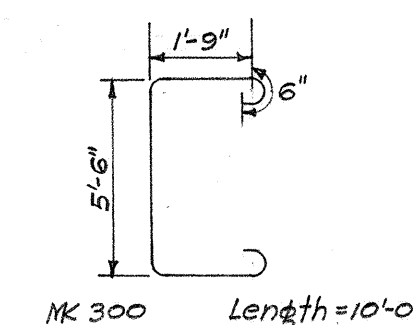
SECTIONAL PLAN
3/8" Scale



SECT. C-C
3/8" Scale



SECT. A-A
3/8" Scale



ESTIMATED QUANTITIES

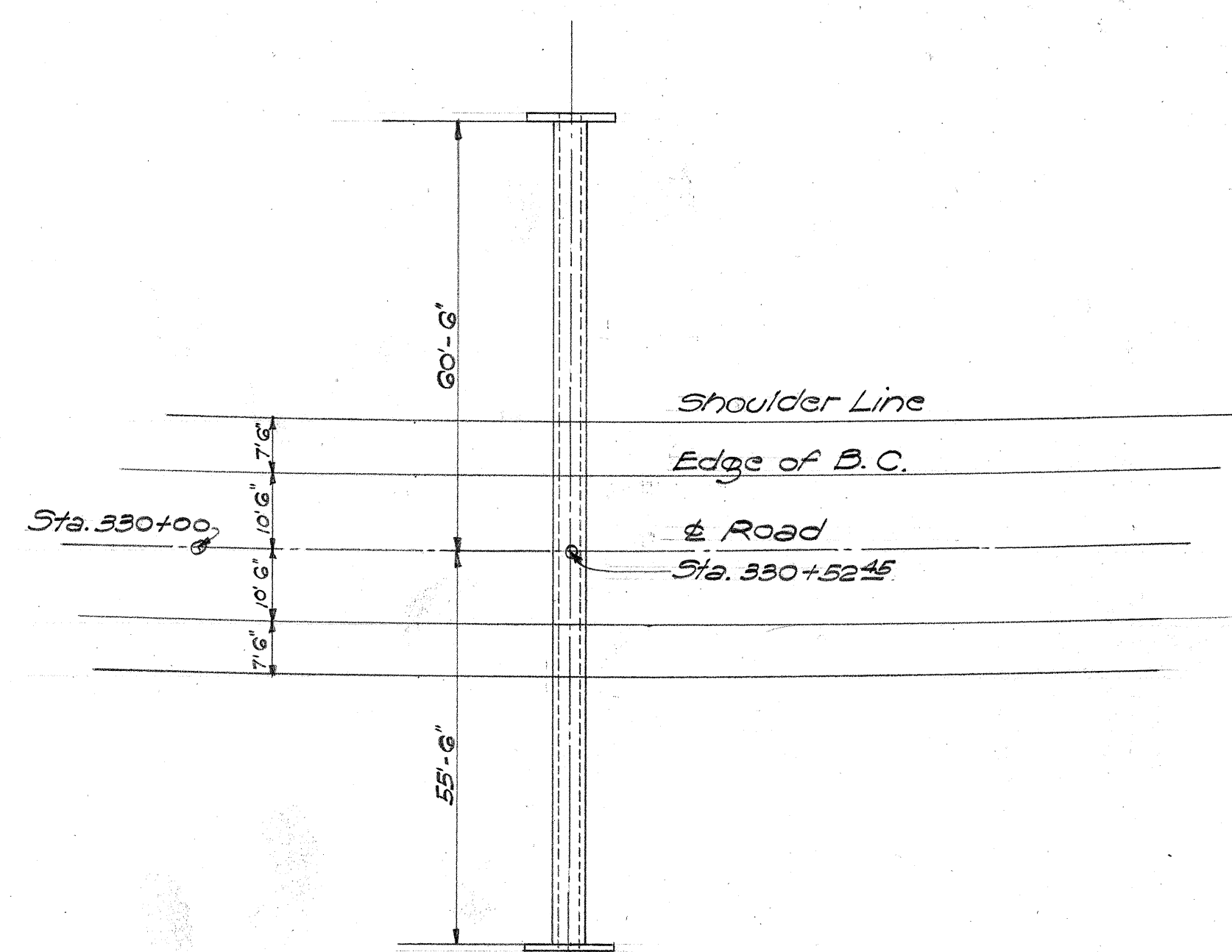
CLASS "A" CONC.	16.3 C.Y.
REINF. STEEL	1602 LBS
STR. EXC.	28 C.Y.
CHANNEL EXC.	10 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT	
TERRITORY OF HAWAII	
4.5' x 4.5' CONC. BOX CULVERT	
STA. 262+93.50	
MAHUKONA-HAWI ROAD	F.A.P. 27A(1)

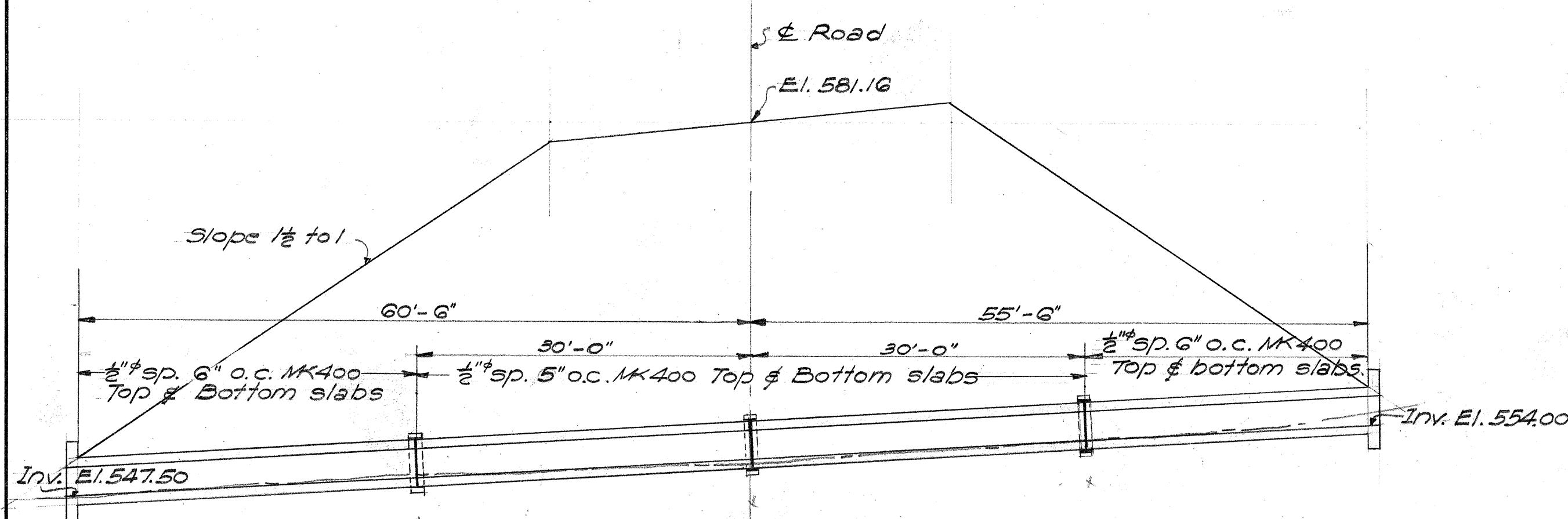
SHEET NO. 10 OF 20 SHEETS

4470.10

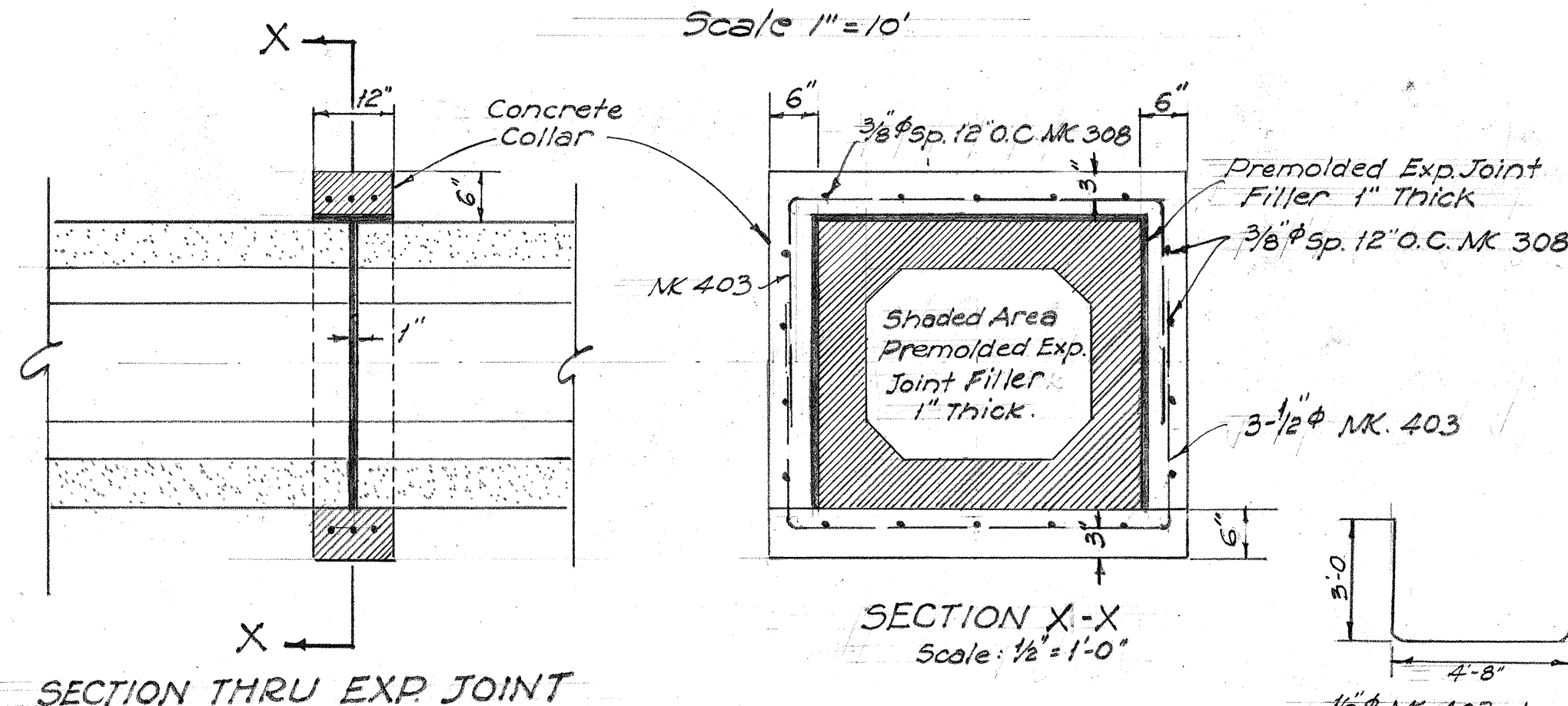
Revised: May 10, 1939



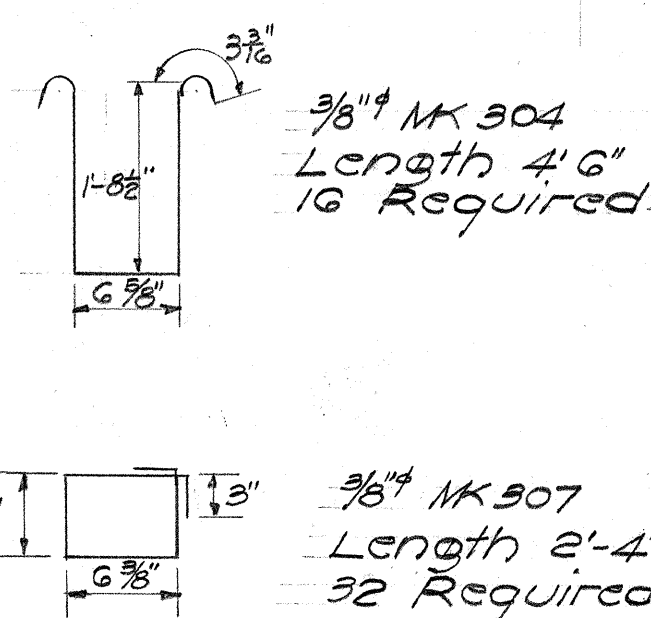
PLAN
Scale 1" = 20'



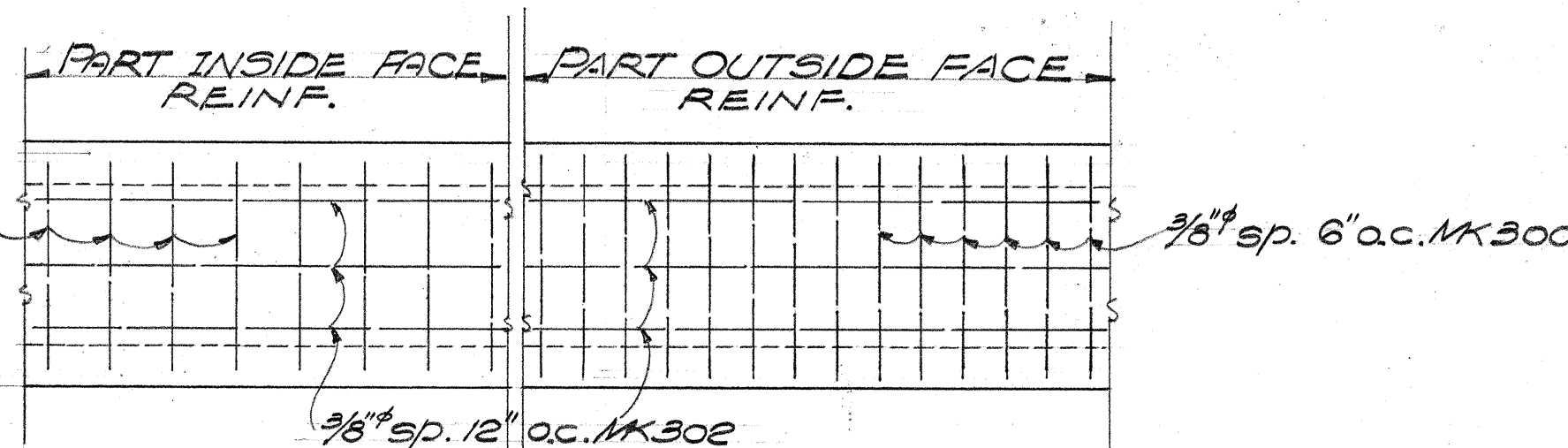
SECTION ALONG & CULVERT.
Scale 1" = 10'



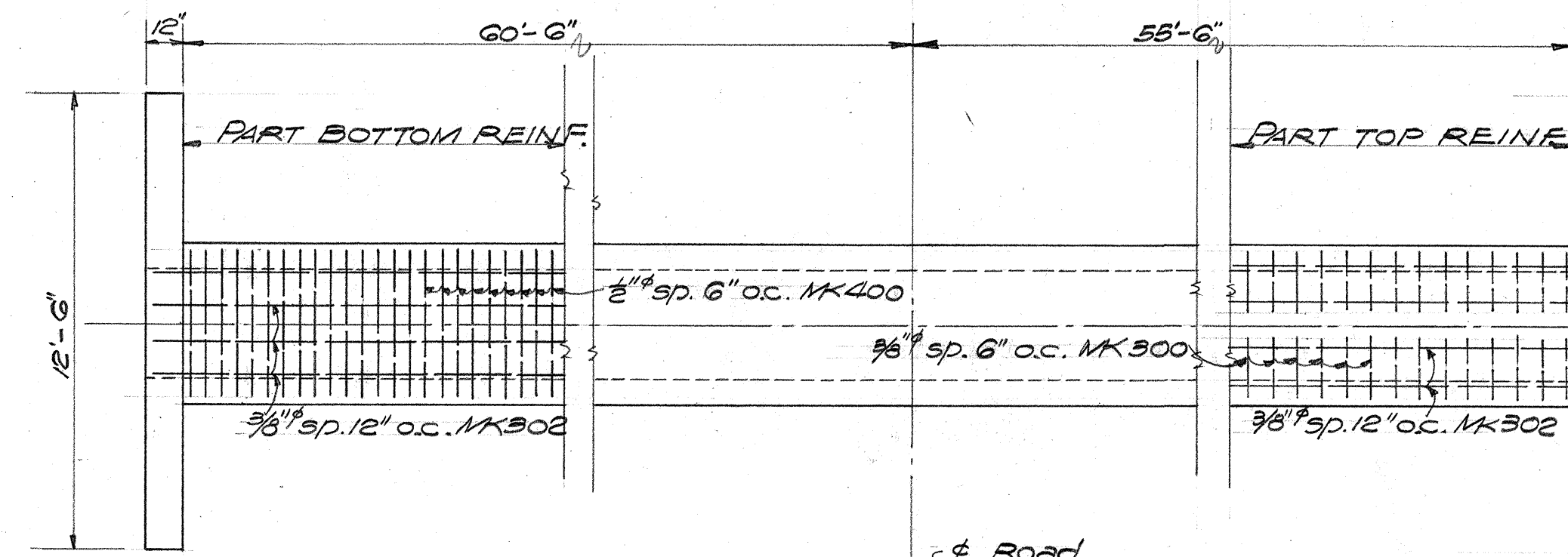
SECTION X-X
Scale: 1/2" = 1'-0"



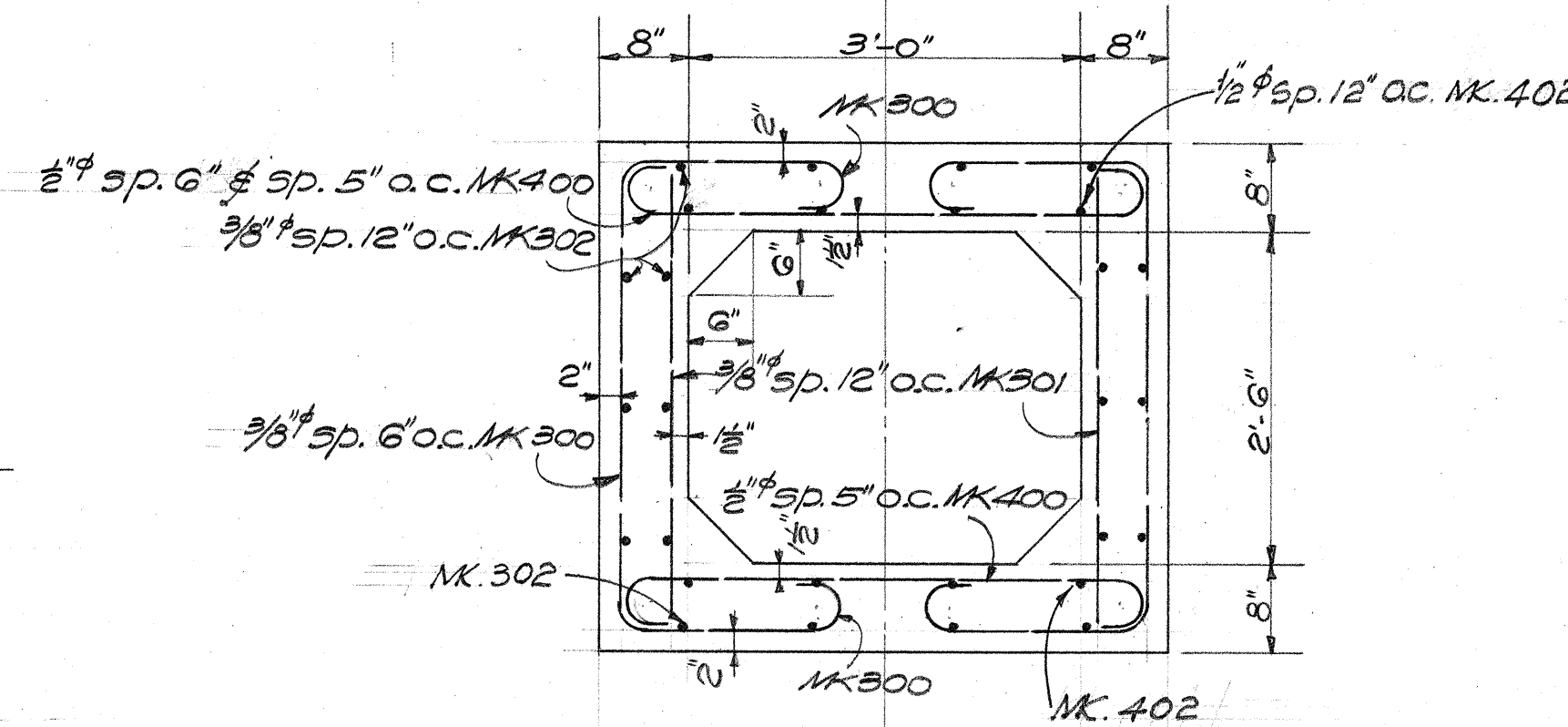
SLAB REINF.
Scale 1/4" = 1'-0"



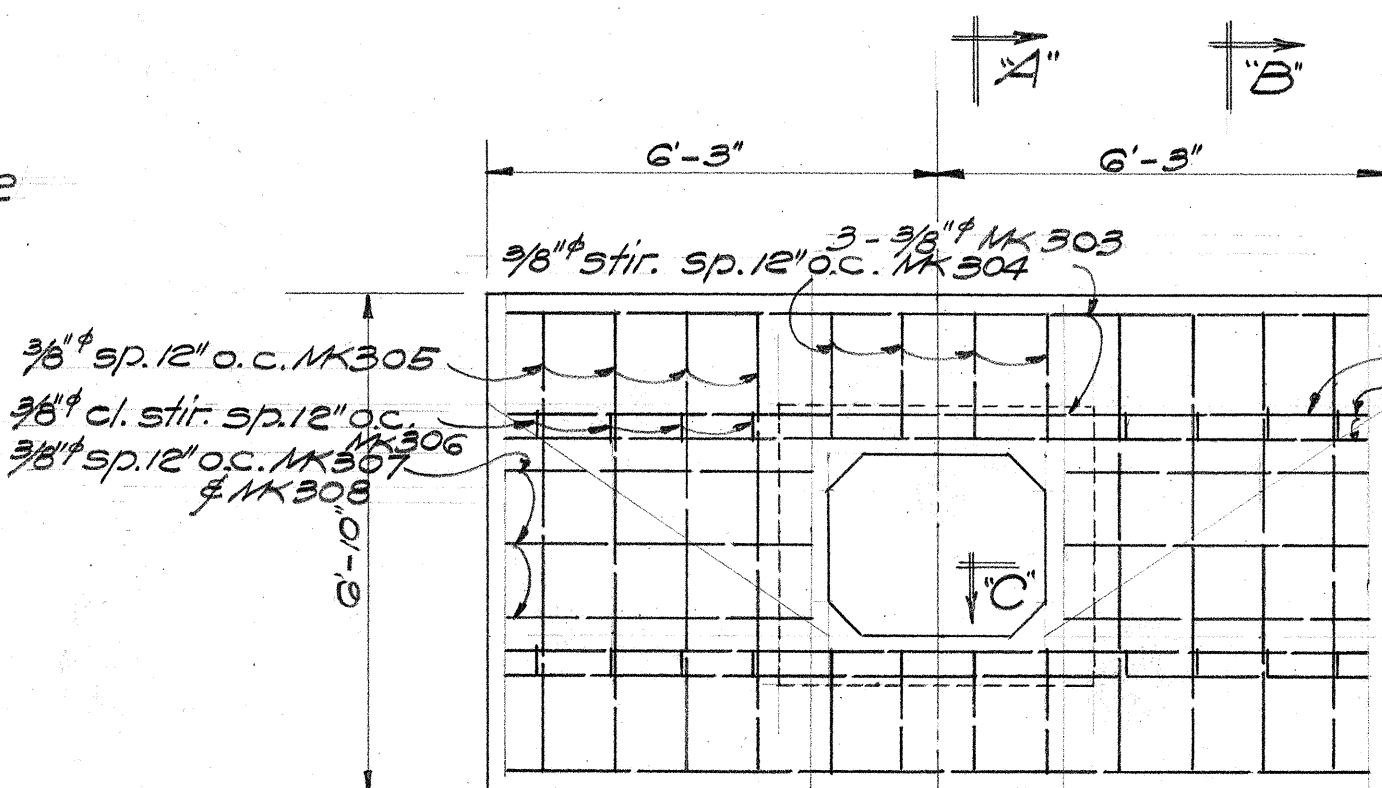
WALL REINF.
Scale 3/8" = 1'-0"



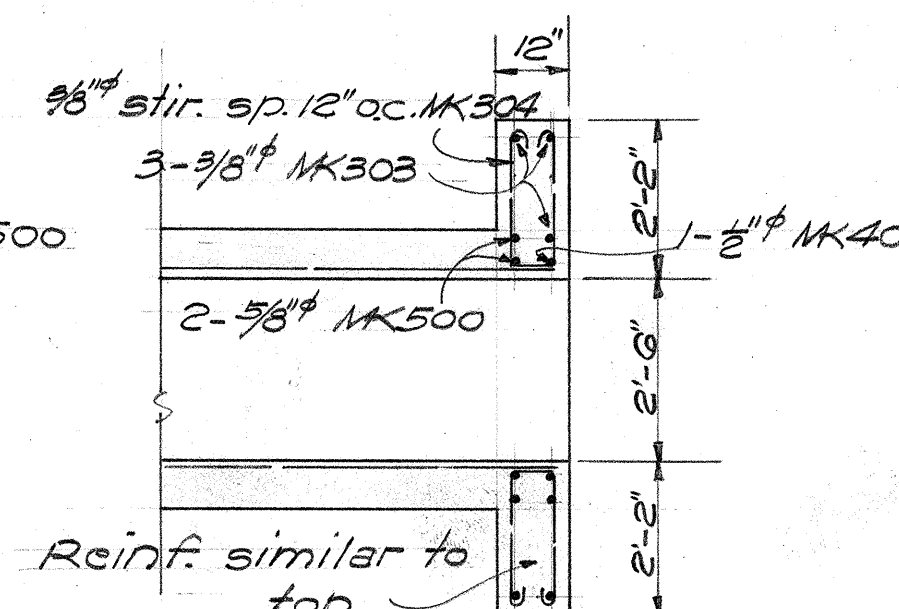
SECTION B-B
Scale 3/8" = 1'-0"



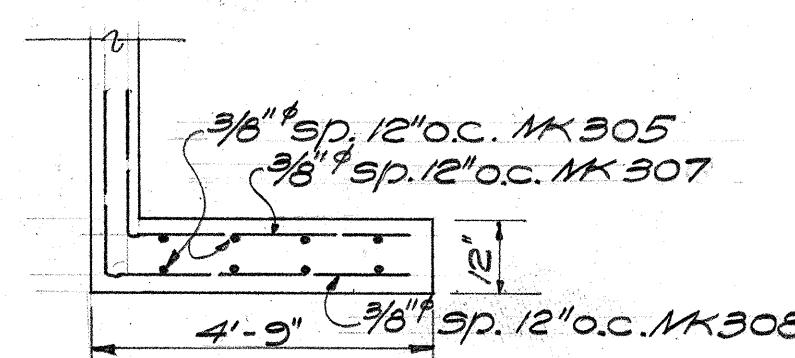
NORMAL SECTION
Scale 3/4" = 1'-0"



HEADWALL
Scale 3/8" = 1'-0"



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



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

ESTIMATED QUANTITIES.		
CONCRETE	47.2 C.Y.	47.9 C.Y.
REINF. STEEL	4972 LBS.	5389 LBS.
STRUC. EXC.	27 C.Y.	27 C.Y.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

3.0' x 2.5' CULVERT.

STA. 330+52.45

F.A.P. 27A(1)

APR. 1939

SHEET No. OF SHEETS