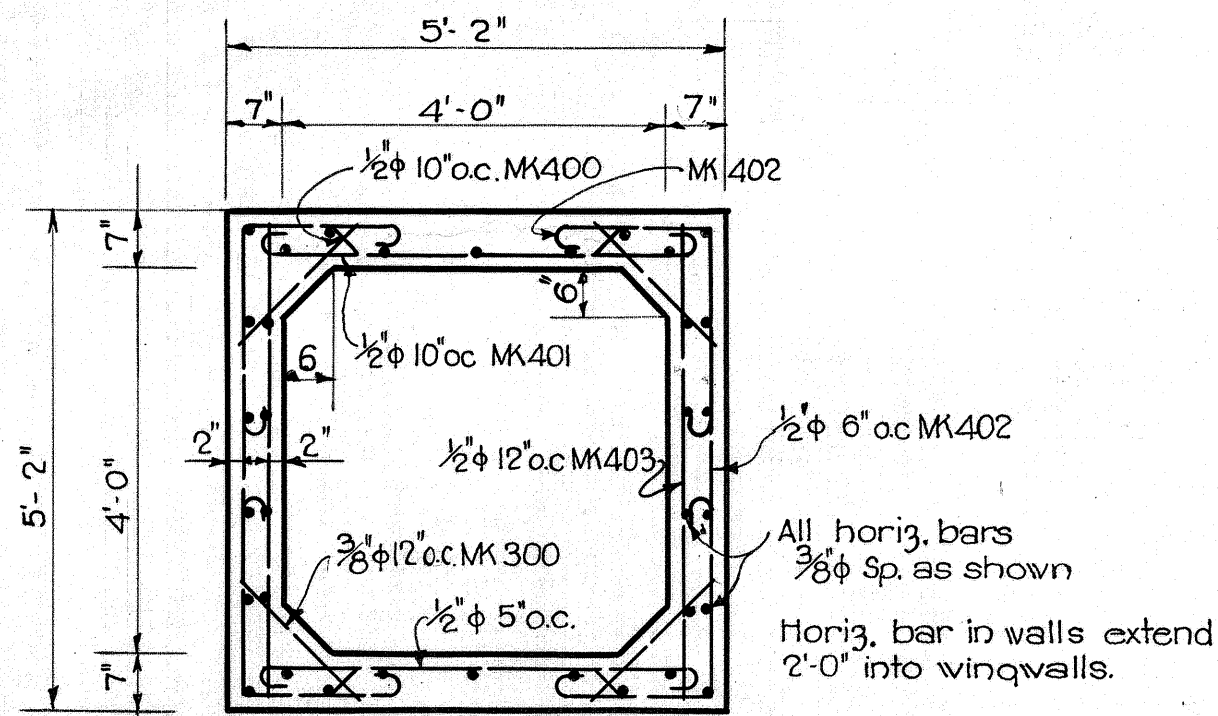
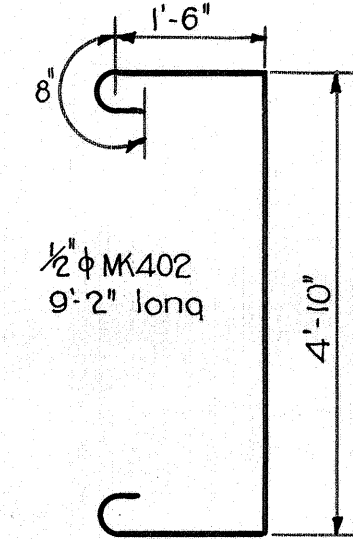
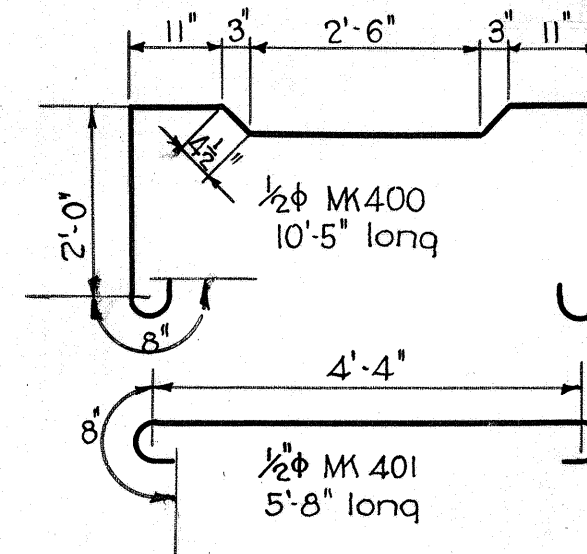
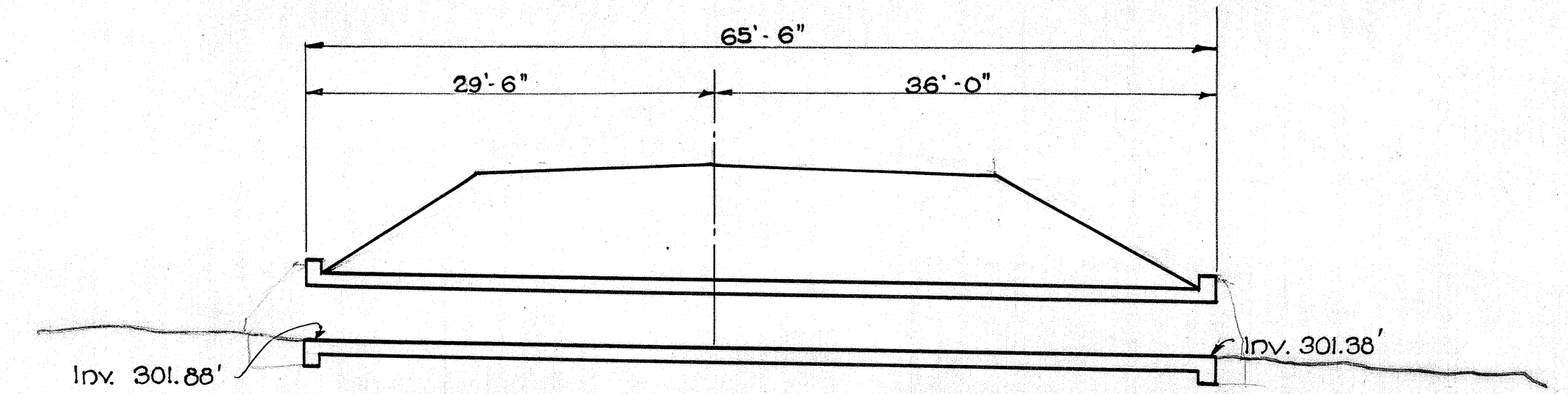




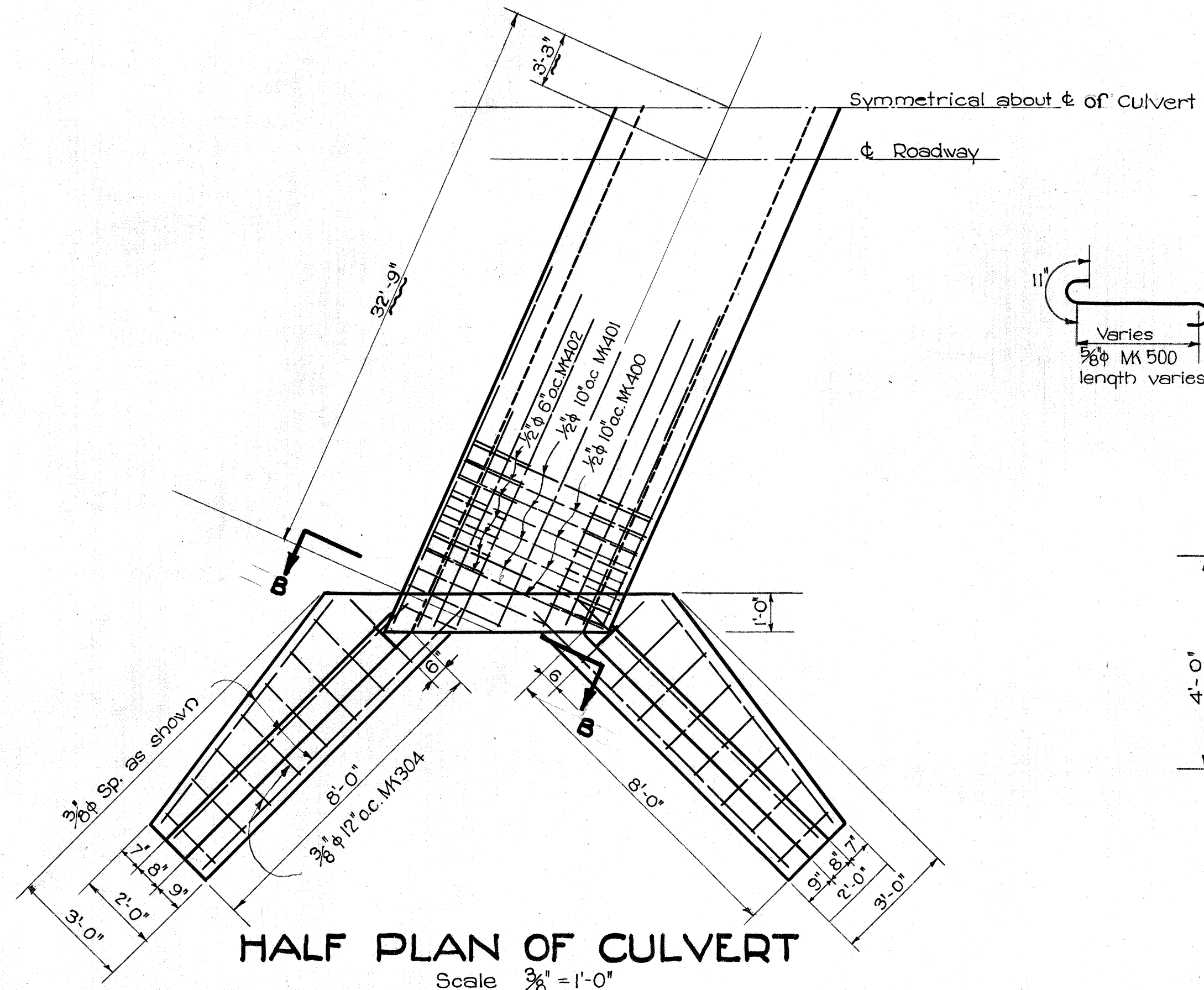
TYPICAL SECT. THRU TRUNK
Scale 1/2" = 1'-0"



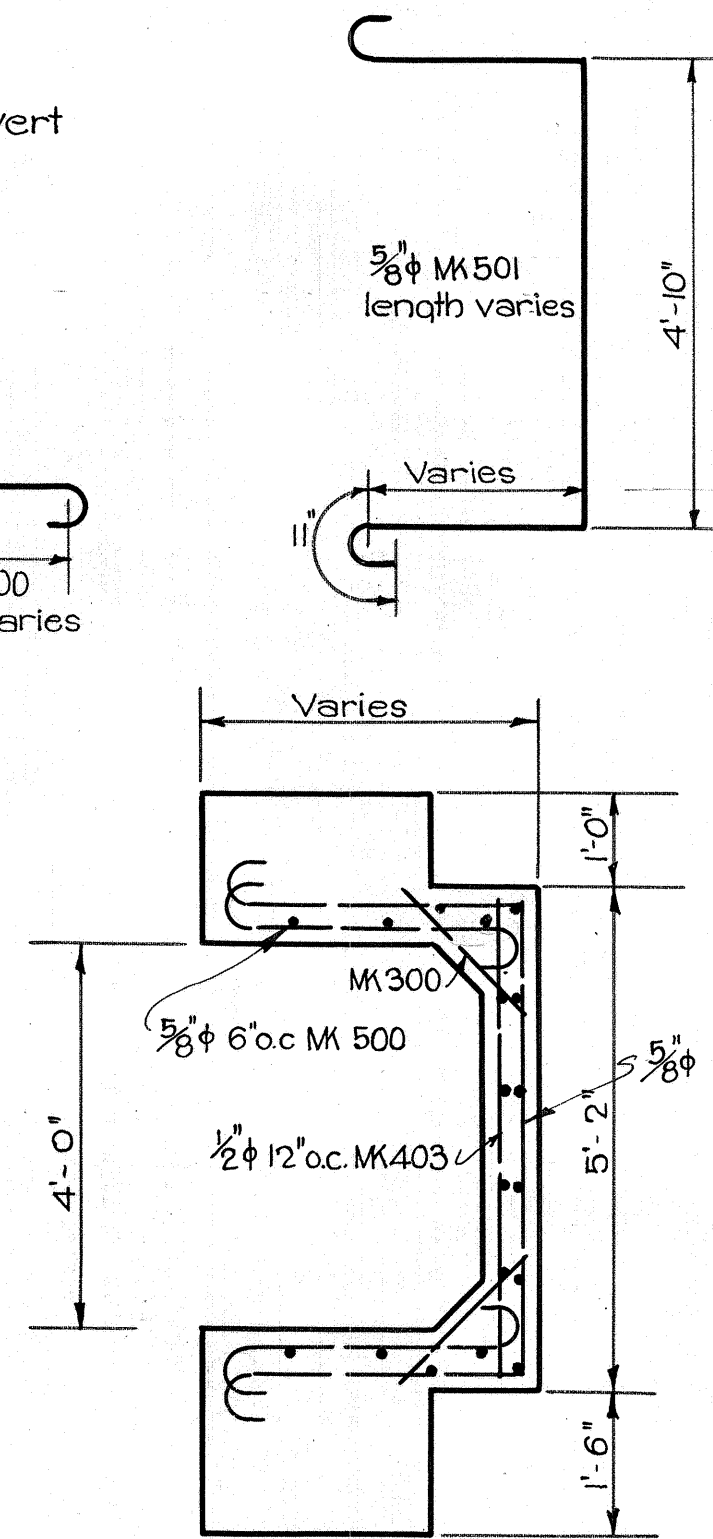
QUANTITIES	
STRUCTURAL EXCAVATION	23 C.Y.
CONCRETE	35.9 C.Y.
REINFORCING STEEL	5368 LBS.



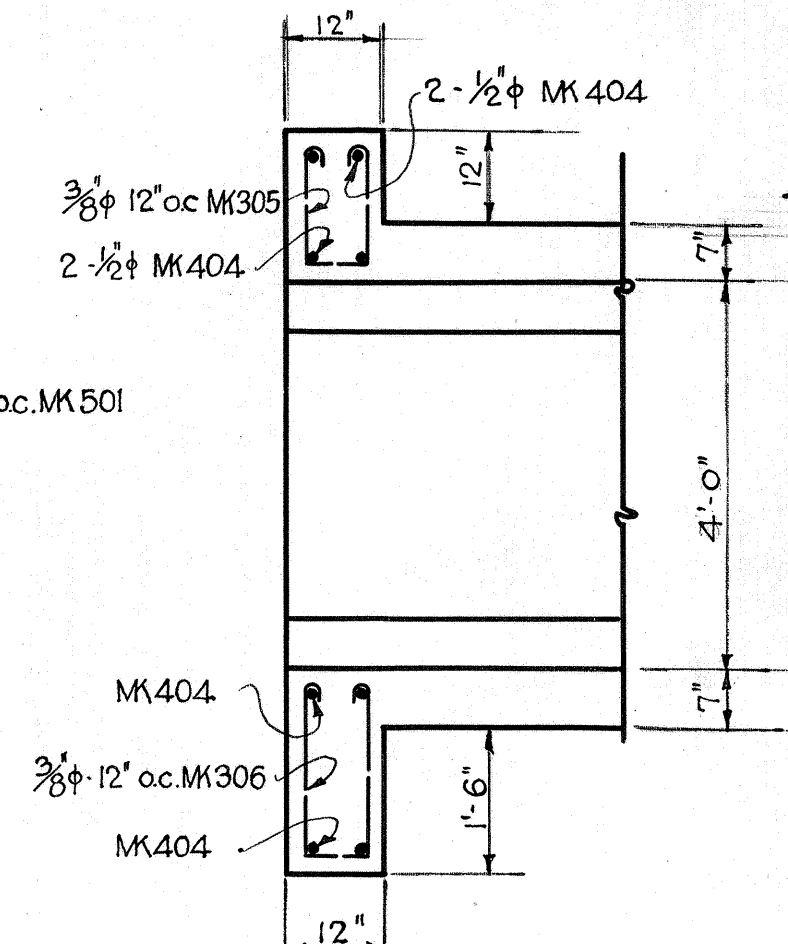
LONGT. SECTION THRU CULVERT ON CL
Scale 1" = 10'



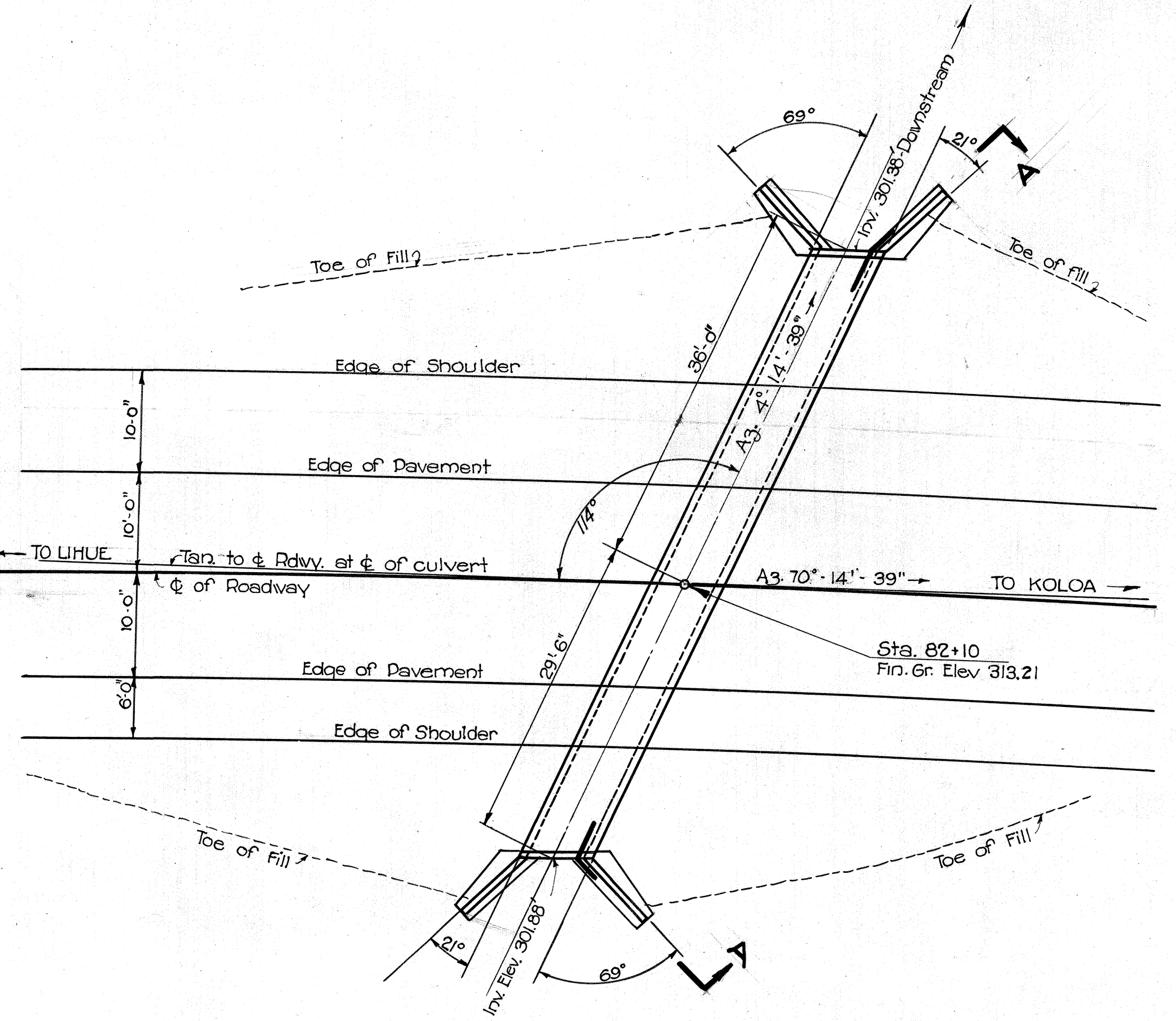
HALF PLAN OF CULVERT
Scale 3/8" = 1'-0"



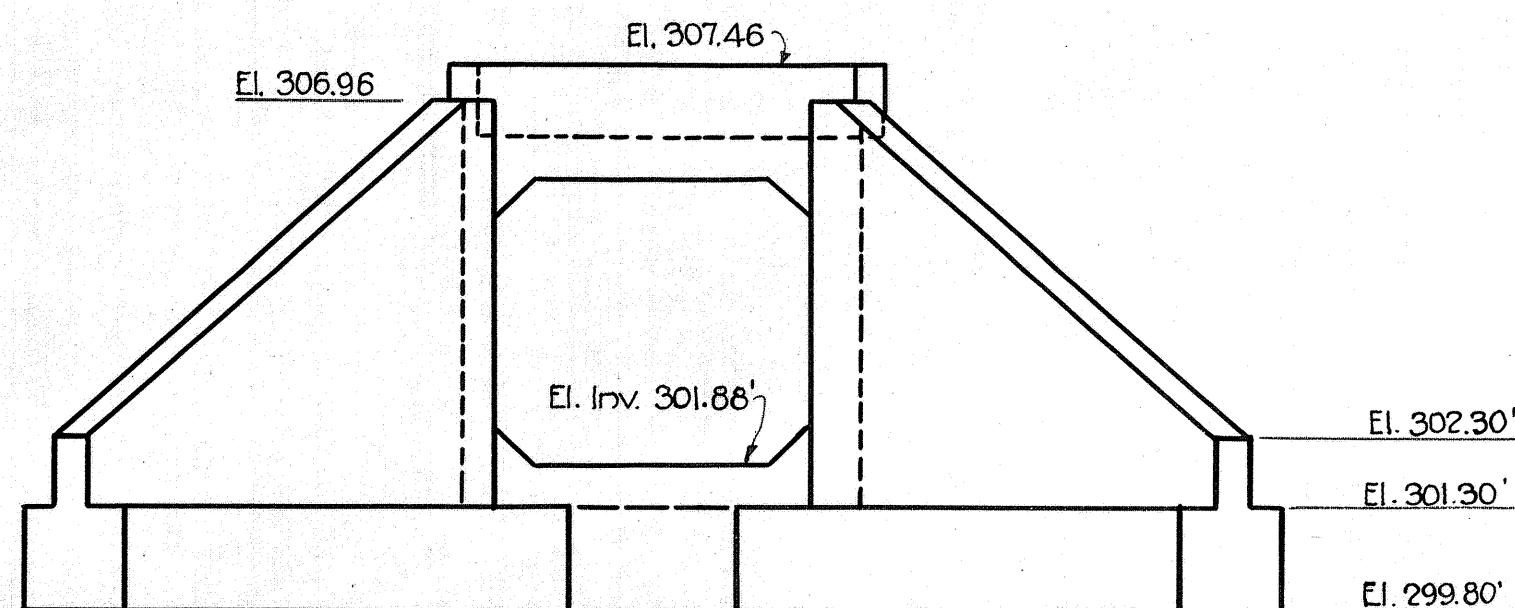
SECTION B-B
Scale 1/2" = 1'-0"



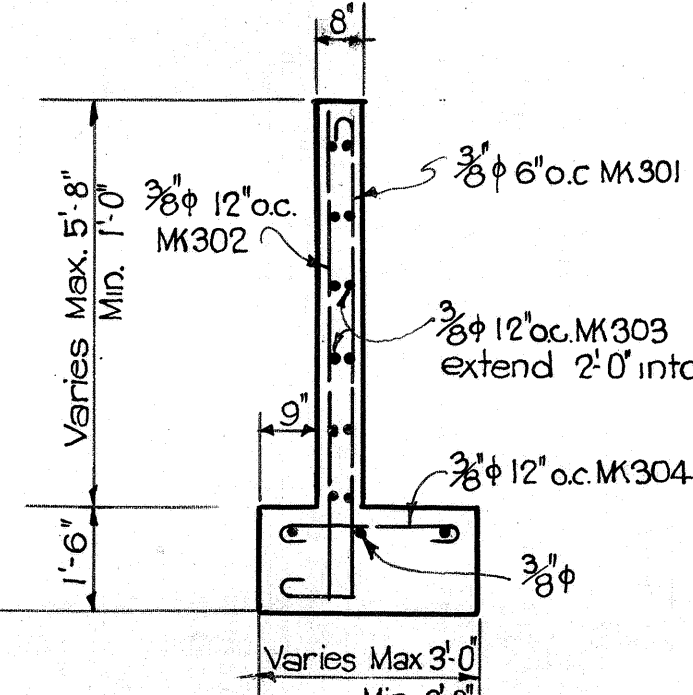
SECT. THRU HEAD
Scale 1/2" = 1'-0"



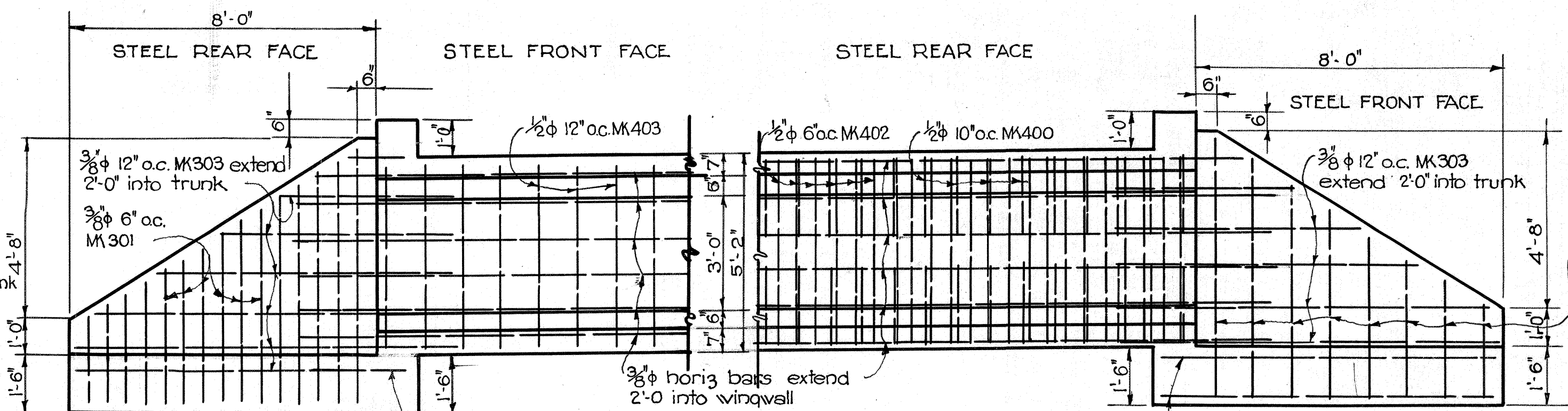
LAYOUT PLAN
Scale 1" = 10'



UPSTREAM ELEVATION
Scale 3/8" = 1'-0"



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



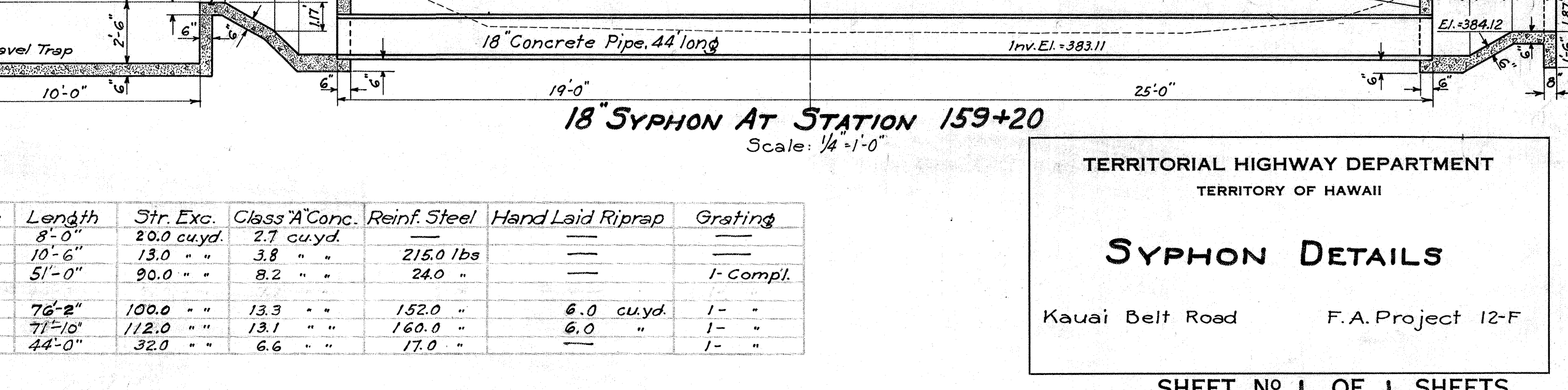
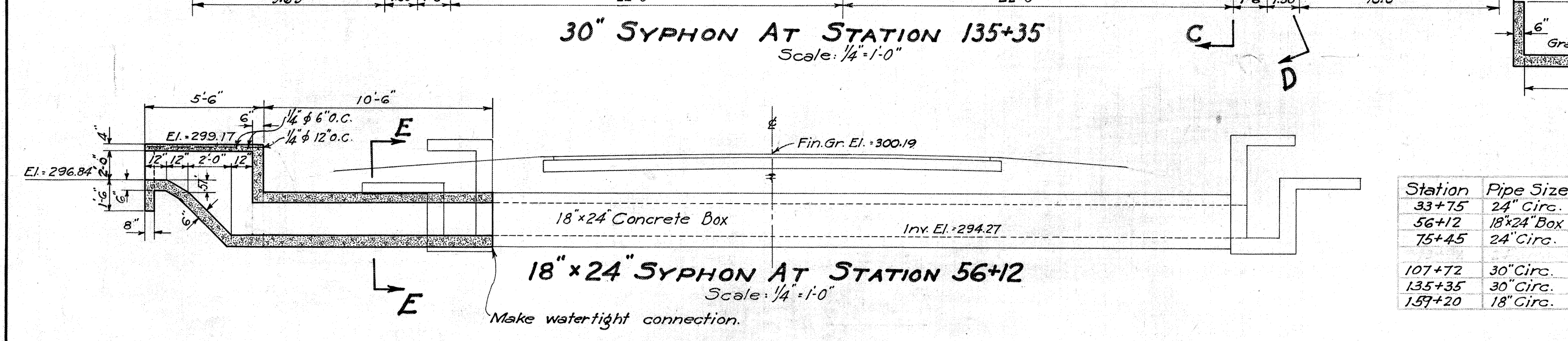
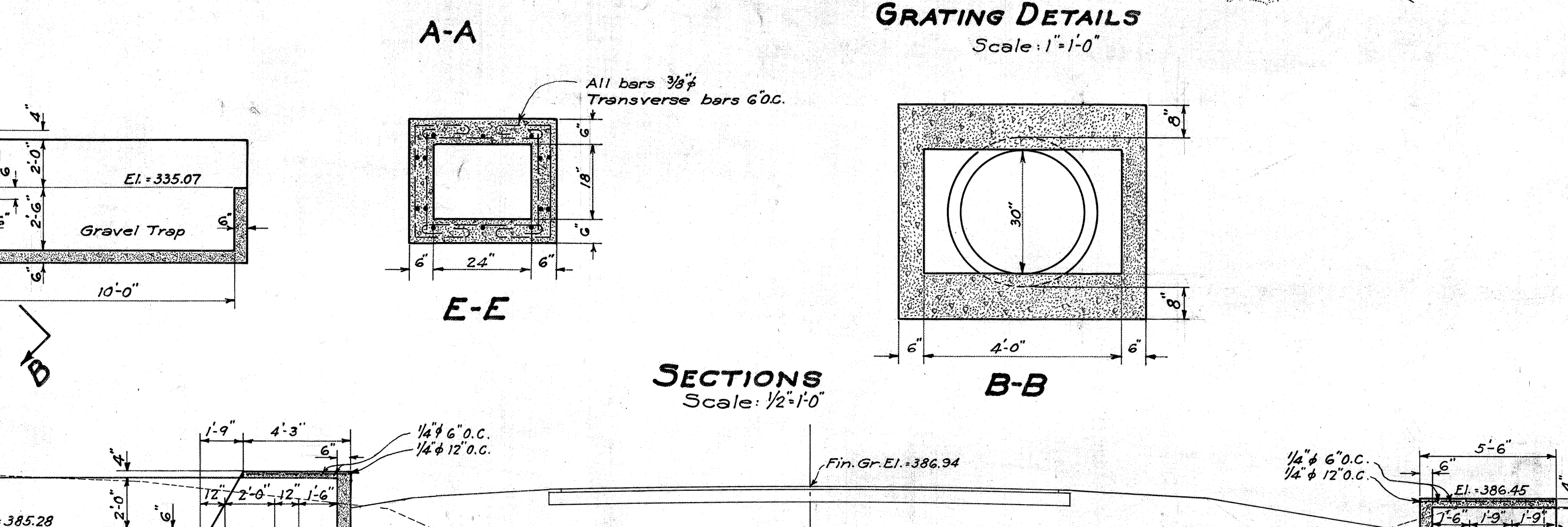
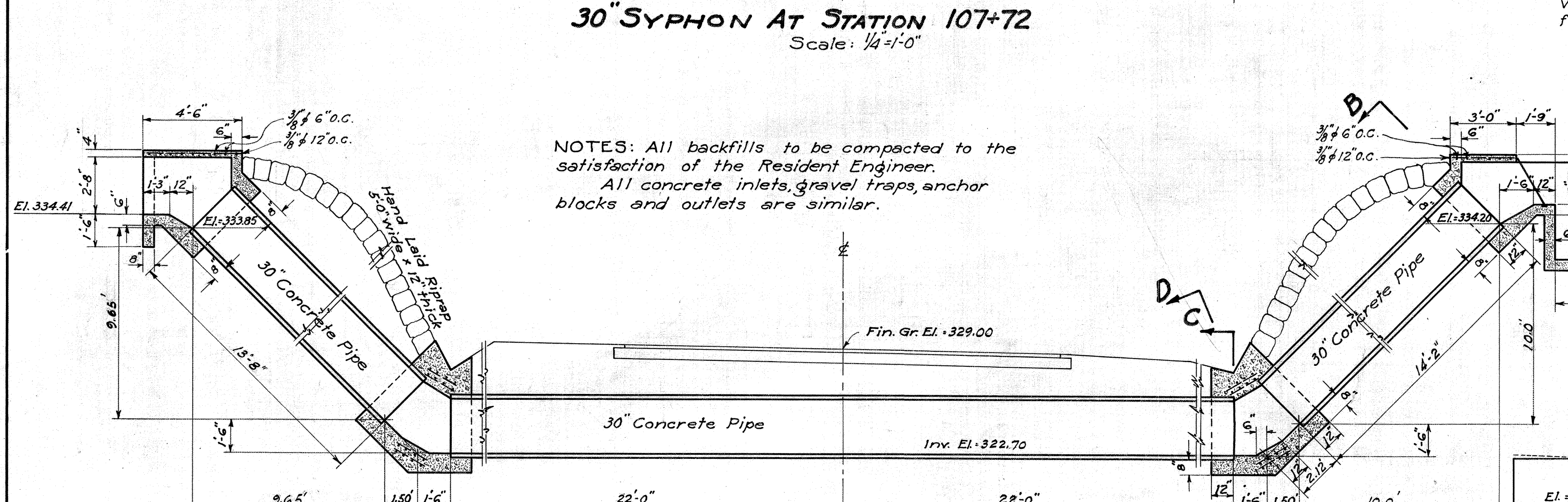
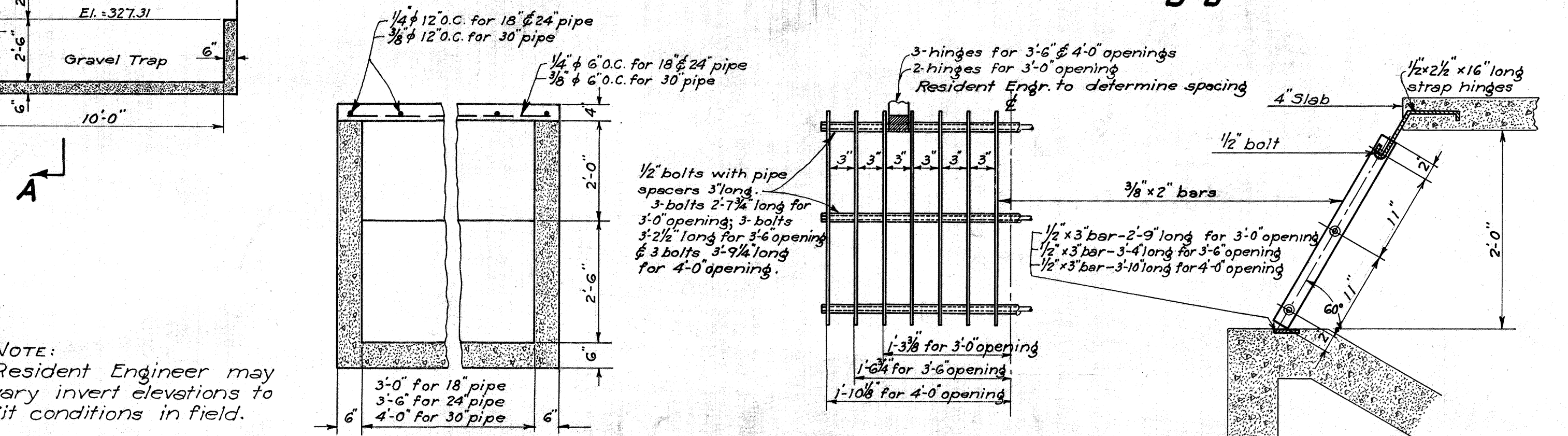
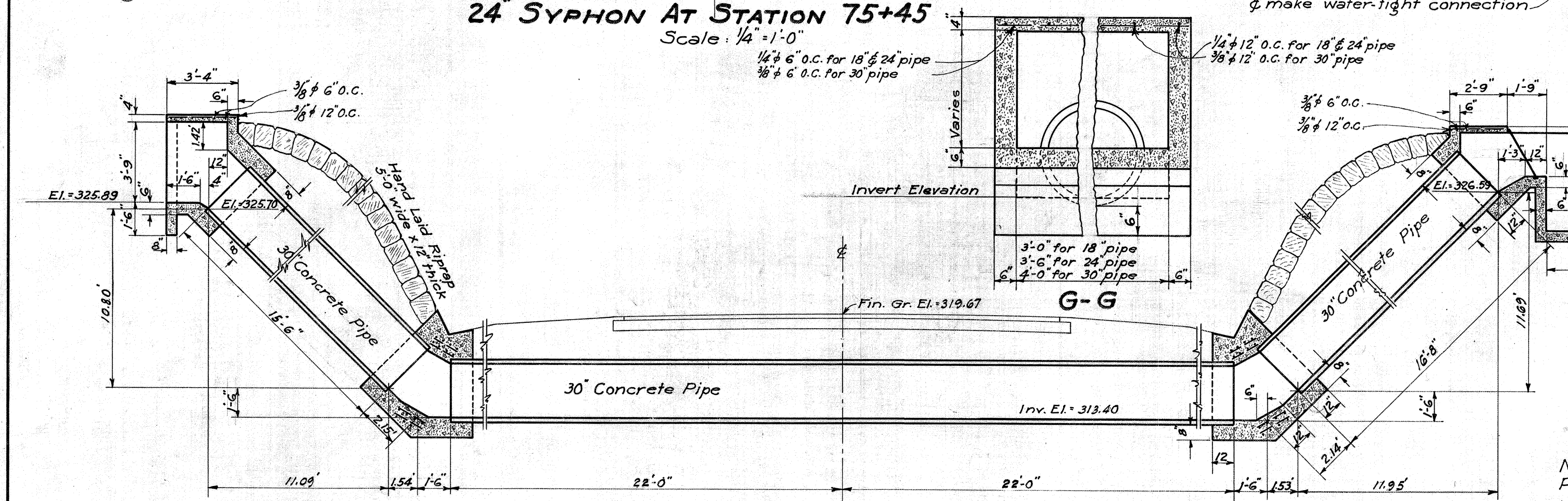
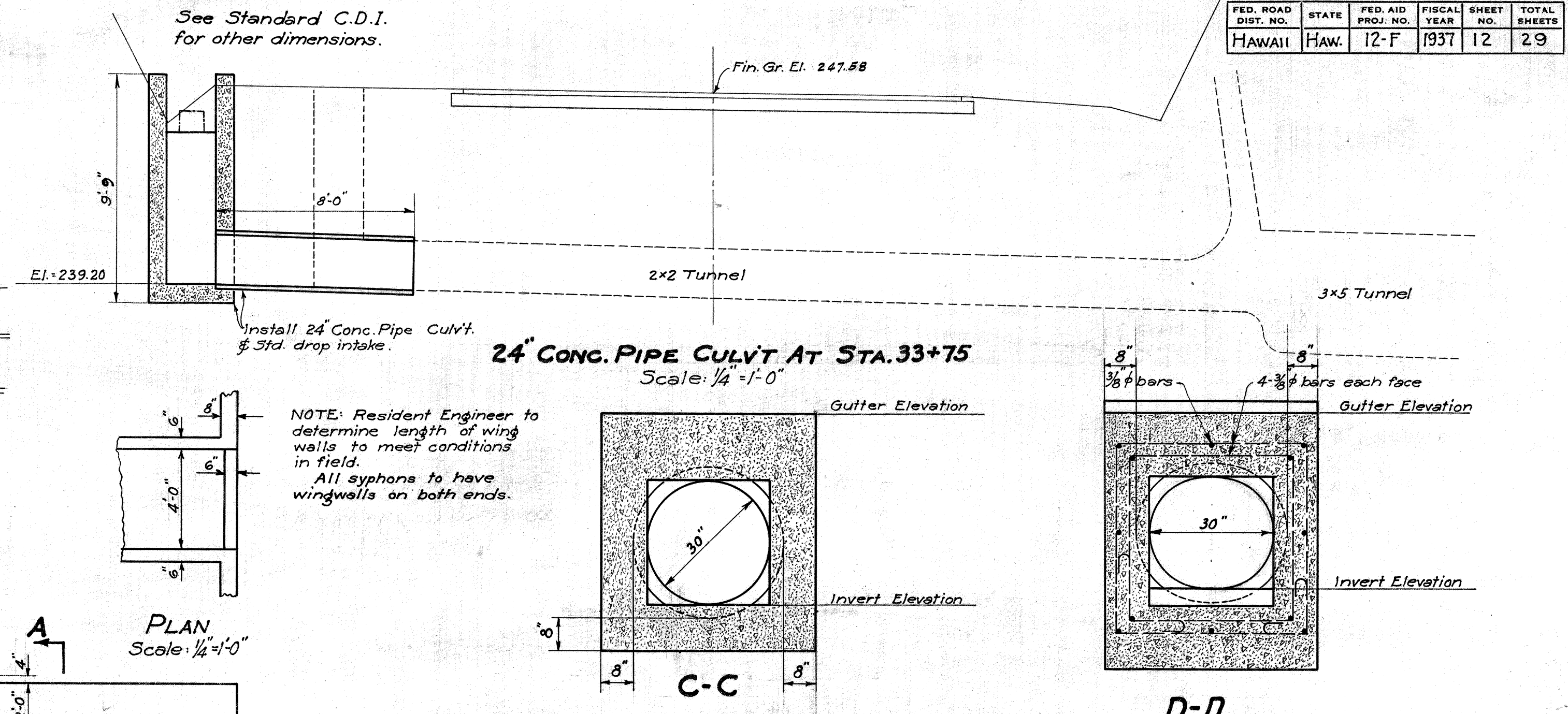
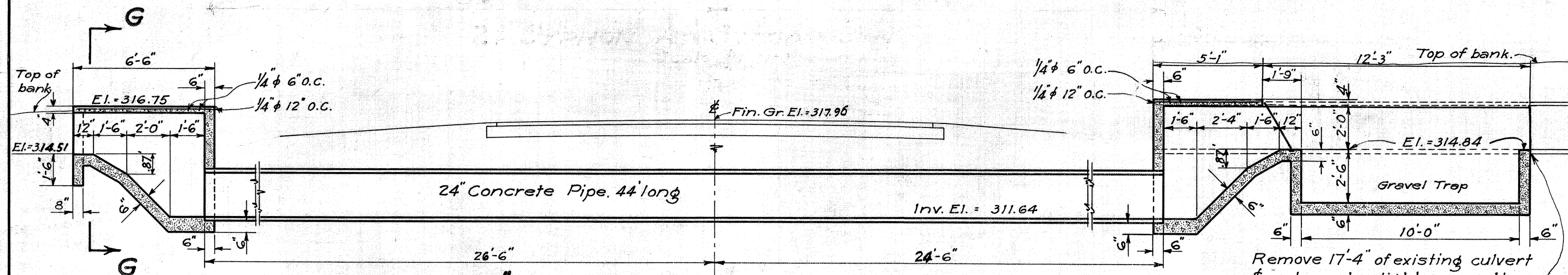
SECTION A-A
Scale 3/8" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
4 x 4 BOX CULVERT
KAUAI BELT ROAD F.A.R. 12F
STA 82+10

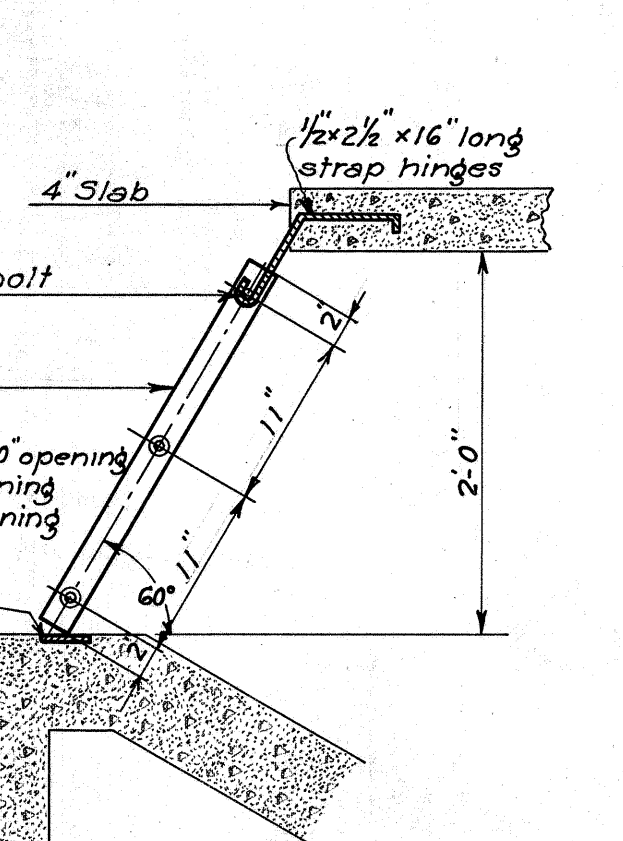
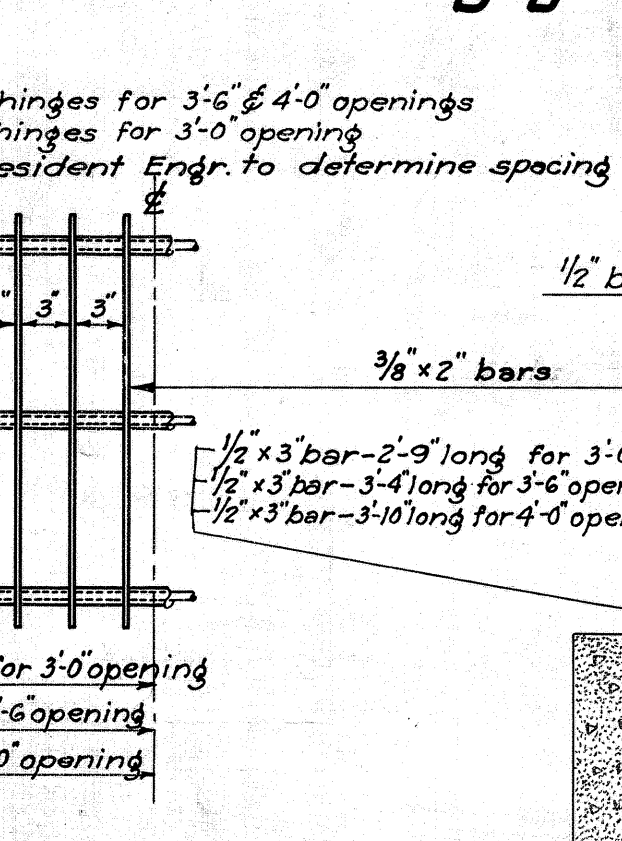
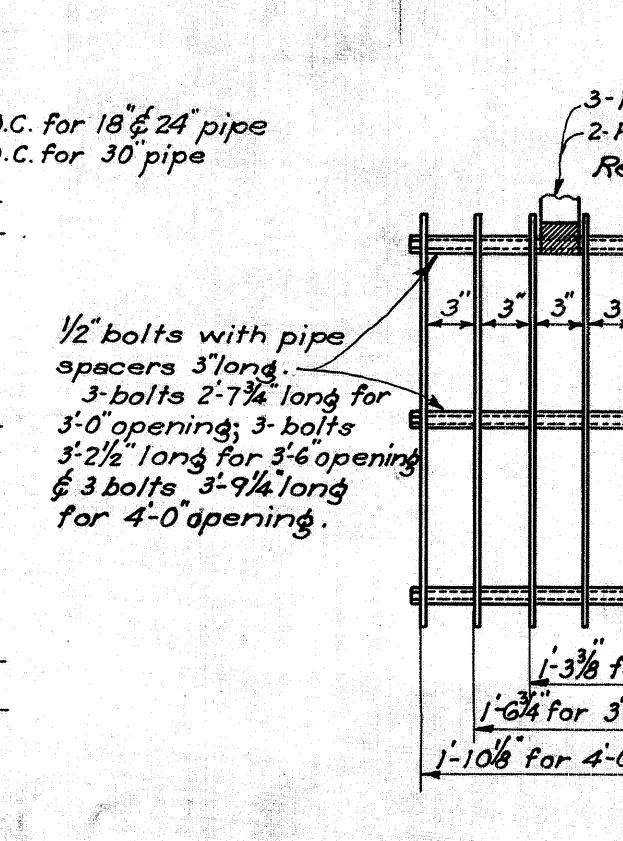
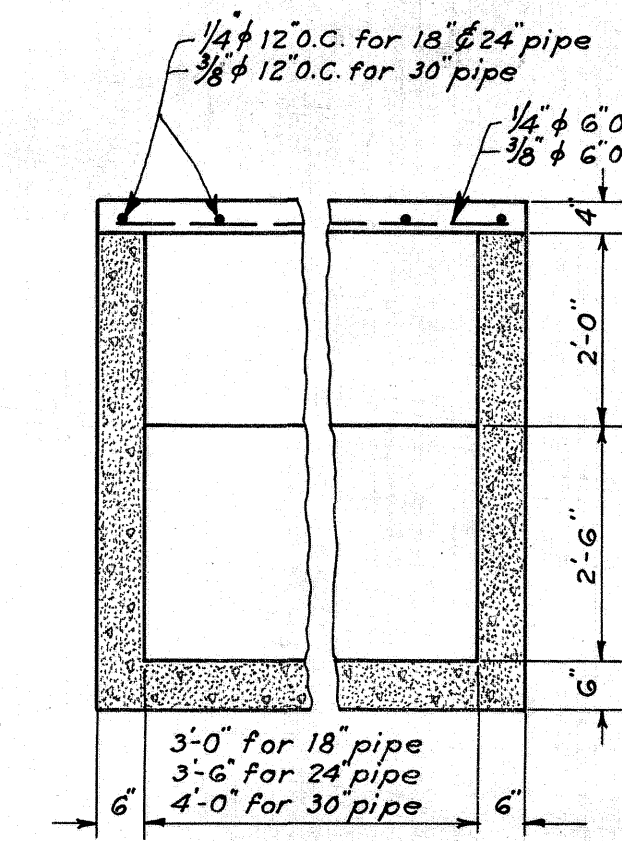
SHEET No 1 OF 1 SHEETS

4390.11

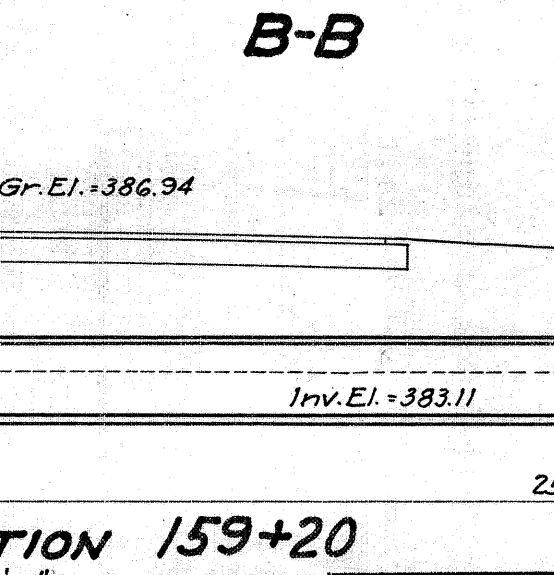
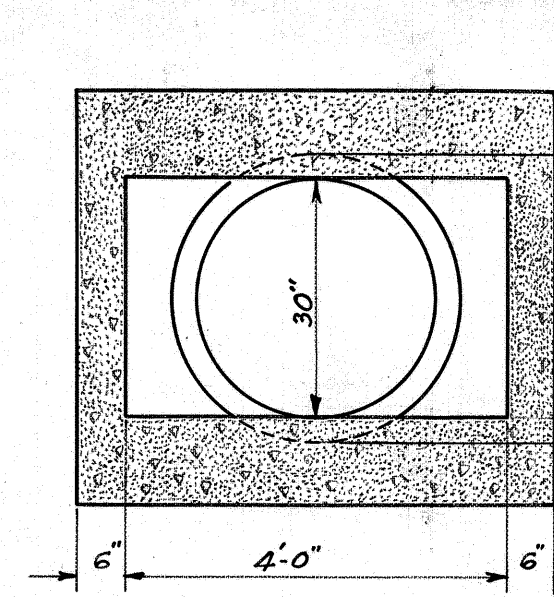
SURVEY PLOTTED BY: J.C. MARCH
DATE: Dec. 36
PLAN: 11
DRAWN BY: R.E. Smith
QUANTITIES BY: J.C. MARCH
CHECKED BY: R.E. Smith
ORIGINAL: 11
NOTE BOOK: 11
No.:



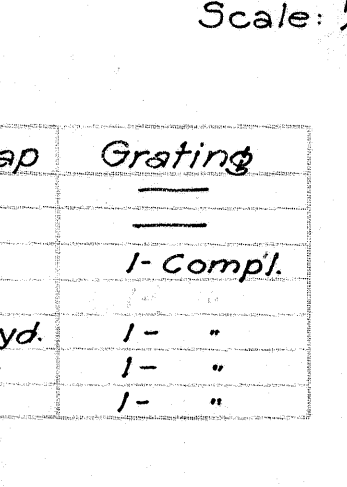
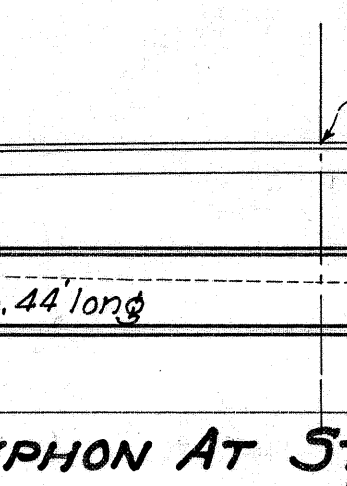
NOTE: Resident Engineer may vary invert elevations to fit conditions in field.



GRATING DETAILS
Scale: 1" = 1'-0"



SECTIONS
Scale: 1/2" = 1'-0"



Station	Pipe Size	Length	Str. Exc.	Class "A" Conc.	Reinf. Steel	Hand Laid Riprap	Grating
33+75	24" Circ.	8'-0"	20.0 cu.yd.	2.7 cu.yd.	215.0 lbs	—	—
56+12	18" x 24" Box	10'-6"	13.0 "	3.8 "	24.0 "	—	—
75+45	24" Circ.	51'-0"	90.0 "	8.2 "	24.0 "	—	1- Compl.
107+72	30" Circ.	76'-8"	100.0 "	13.3 "	152.0 "	6.0 cu.yd.	1- "
135+35	30" Circ.	71'-10"	112.0 "	13.1 "	160.0 "	6.0 "	1- "
159+20	18" Circ.	44'-0"	32.0 "	6.6 "	17.0 "	—	1- "

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

SYPHON DETAILS

Kauai Belt Road F.A. Project 12-F

DATE: 12/1/37
DRAWN BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS
NOTE BOOK: 4390.12
QUANTITIES BY: J. H. HARRIS
CHECKED BY: J. H. HARRIS