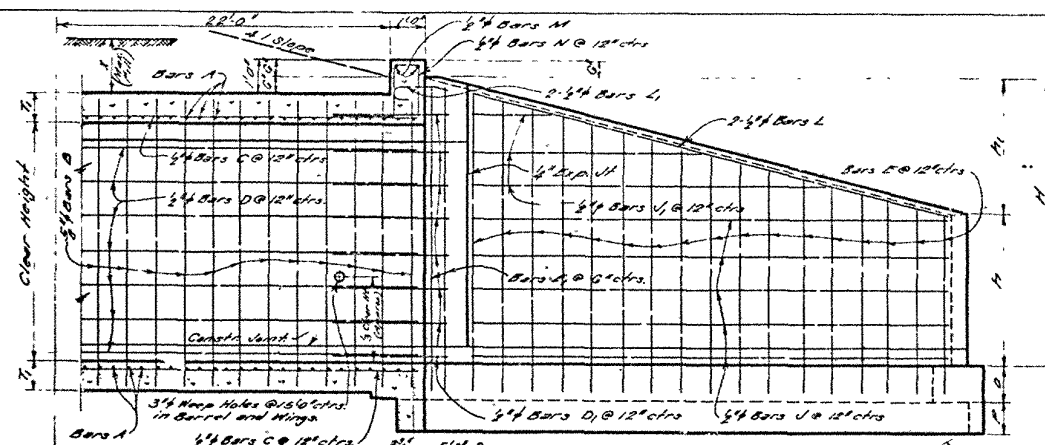
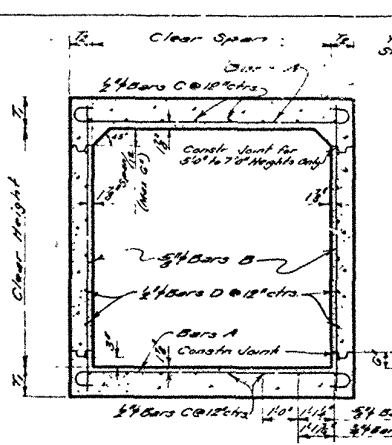
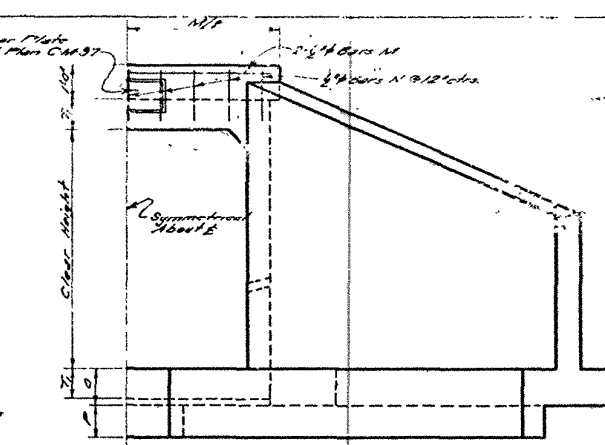




LONGITUDINAL SECTION

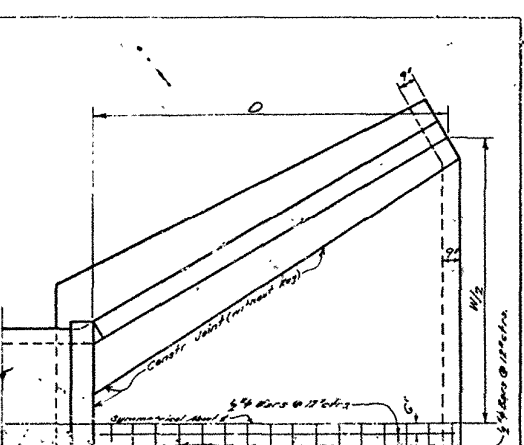


SECTION THRU BARREL

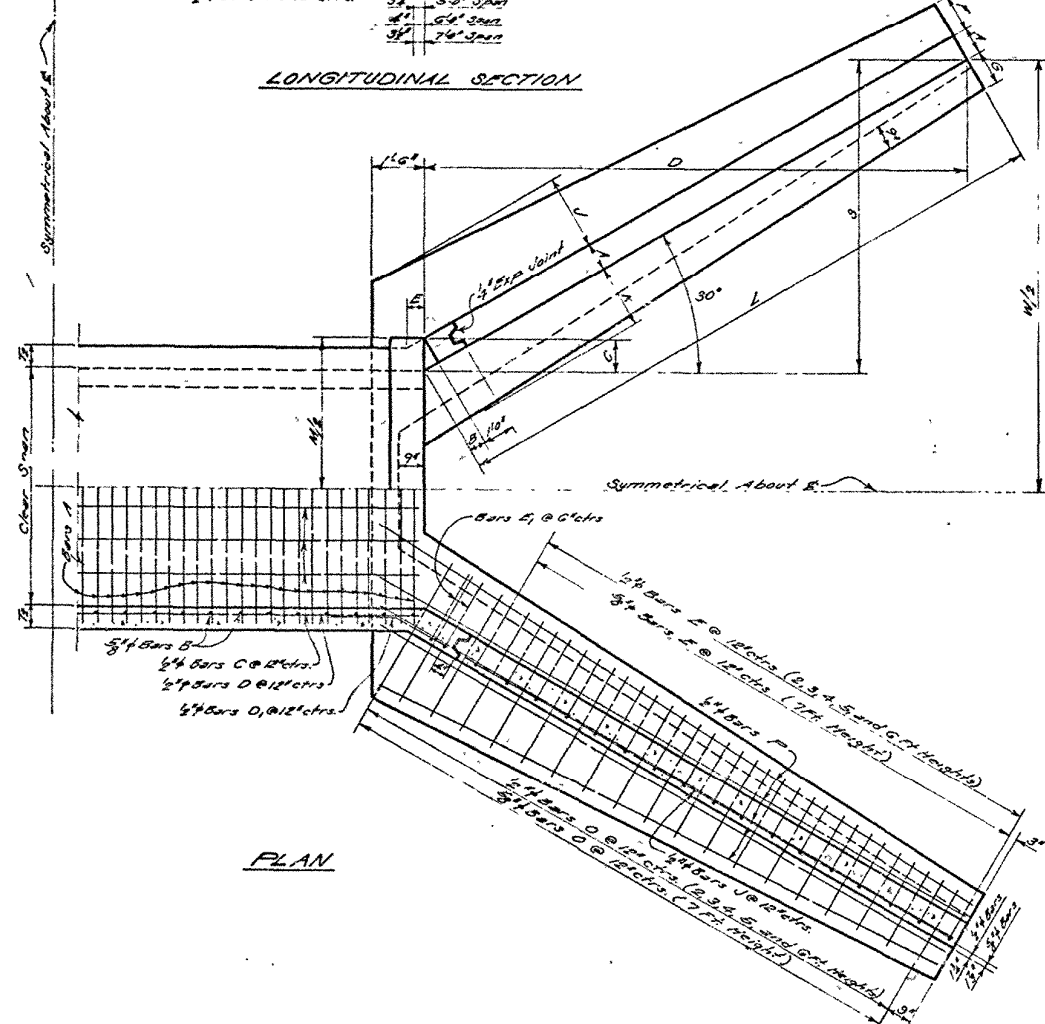


HALF END ELEVATION

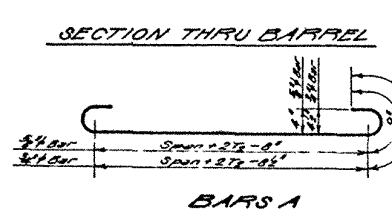
OPENINGS		ADDITIONAL QUANTITIES IF APRONS USED		ADDITIONAL QUANTITIES IF APRONS USED	
CLEAR SPAN	CLEAR HEIGHT	CONCRETE	STEEL	CONCRETE	STEEL
2	3	2.78	109	1.30	1.48
3	4	3.70	160	1.58	2.12
4	5	4.70	218	1.88	2.84
5	6	5.85	284	2.20	3.78
6	7	7.10	361	2.64	4.90
7	8	8.52	444	3.12	6.14
8	9	10.00	534	3.64	7.50



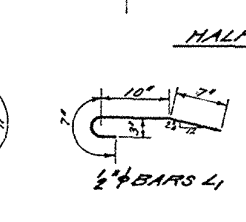
APRON DETAILS
APRON TO BE USED ONLY WHEN CALLED FOR ON PLANS
No. 10 Depth of Toe Wall Under Wing Parking Space
Dimension in Feet



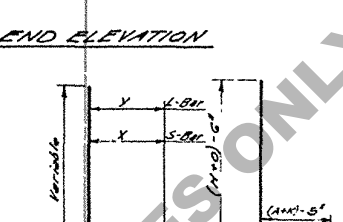
PLAN



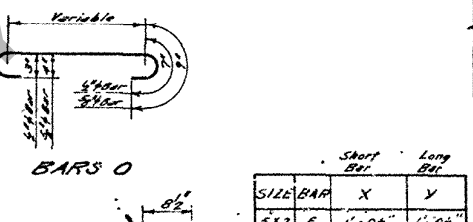
BAR A



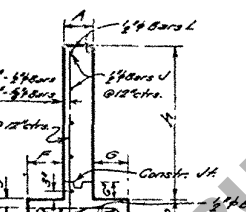
BAR L



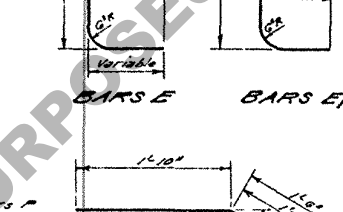
BAR E



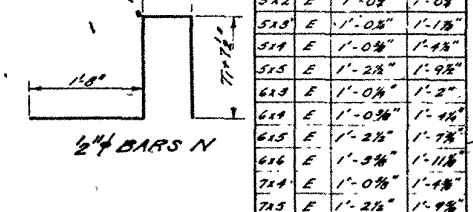
BAR O



BAR L



BAR E



BAR O

OPENINGS		BARREL		WINGS AND CURBS		QUANTITIES		OPENINGS	
CLEAR SPAN	CLEAR HEIGHT	AREA	PER IN. FT.	PER IN. FT.	PER IN. FT.	PER IN. FT.	PER IN. FT.	CLEAR SPAN	CLEAR HEIGHT
2	3	15	24	9	6	3.3	0.03	3	4
3	4	20	24	9	6	3.3	0.03	4	5
4	5	25	24	9	6	3.3	0.03	5	6
5	6	30	24	9	6	3.3	0.03	6	7
6	7	35	24	9	6	3.3	0.03	7	8
7	8	40	24	9	6	3.3	0.03	8	9

OPENINGS		BARREL REINFORCEMENT		WINGS AND CURBS REINFORCEMENT		OPENINGS	
CLEAR SPAN	CLEAR HEIGHT	BAR A	BAR B	BAR C	BAR D	CLEAR SPAN	CLEAR HEIGHT
2	3	244	124	124	124	2	3
3	4	244	124	124	124	3	4
4	5	244	124	124	124	4	5
5	6	244	124	124	124	5	6
6	7	244	124	124	124	6	7
7	8	244	124	124	124	7	8

GENERAL NOTES:
Construction Specs: Latest Approved En. Dep't of Hwys Std. Specs.
Design Specifications: A.S.T.M. A305, 1953, as amended to Dec. 31, 1955
Live Load: H20-44 (Modified)
All concrete to be Class A
All exposed corners to be chamfered 3/4" unless otherwise noted
Reinforcement shall be Intermediate or Hard Grade, A.S.T.M. A305, or Rail Steel
Reinforcement shall be placed in concrete in accordance with A.S.T.M. A305
Dimensions relating to Reinforcing Steel are to bar centers
Place 2 Cu. Ft. of large size Gravel or loose Rock behind and around each Weep-Hole
When Culvert is located at a site subject to scour, the Toe Wall P shall be made
deeper or Riprap placed around face of Toe Wall P to prevent scour
For details of Expansion and Contraction Joints, see Std. Plan CM-49

STANDARD PLAN
REINFORCED CONCRETE BOX CULVERTS
5 FT TO 7 FT CLEAR SPAN
2 FT TO 7 FT CLEAR HEIGHT
4:1 SLOPE

DESIGNED: H. C. C. 6-20
CHECKED: H. C. C. 6-20
DATE: 1955

VOID