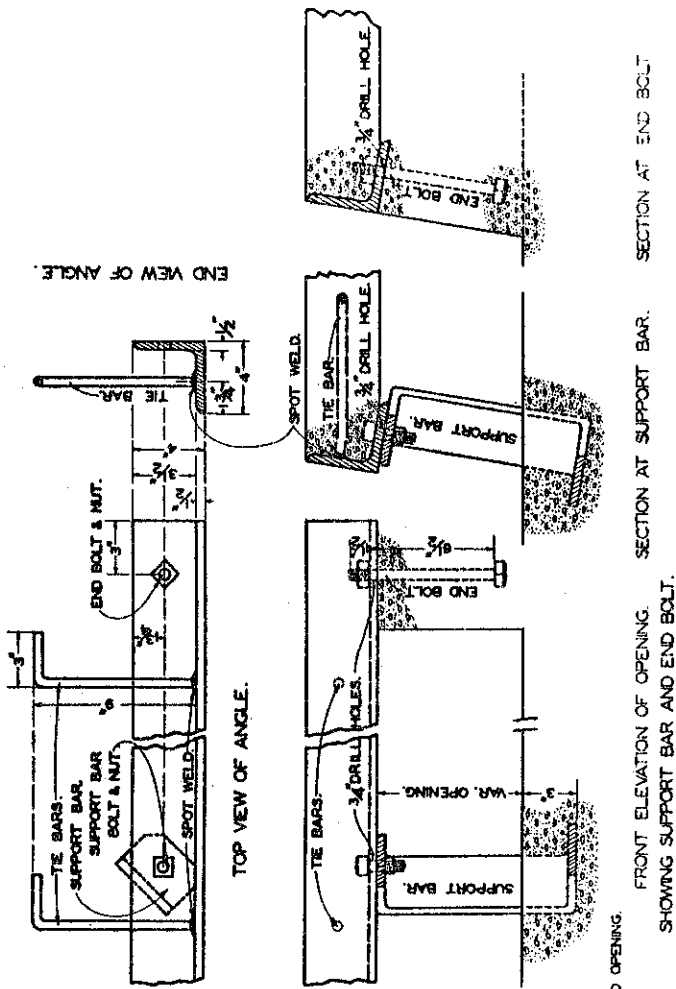


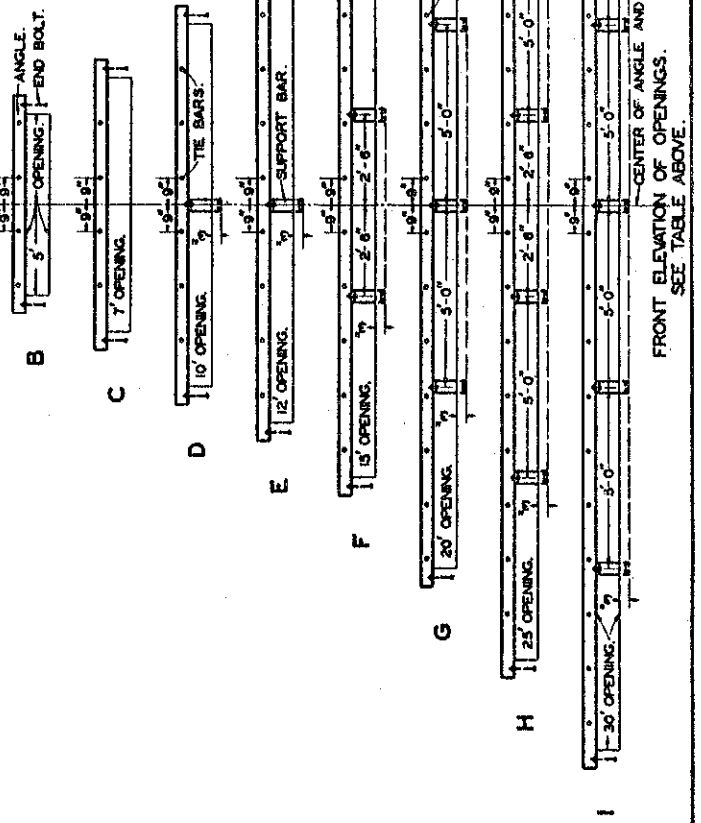
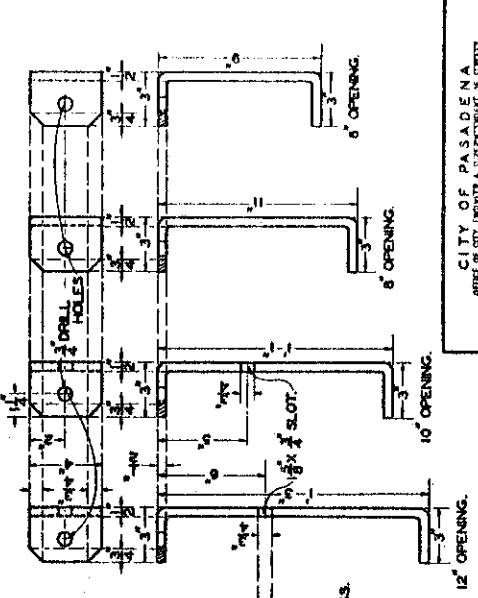
Note: All culvert construction details to conform with the City of Pasadena Specifications No. 31 as amended.
 Angle iron assembly with tie bars, bolts, nuts, and support bars to be hot dip galvanized after fabrication.

DESCRIPTION	LENGTH OF OPENING IN FEET	NUMBER OF 1/2" TIE BARS AT LONG	NUMBER OF 4 1/2" SUPPORT BARS	NUMBER OF 2 1/2" END BOLTS & NUTS	NUMBER OF 3/4" DRILL HOLES IN ANGLE
A	4	3	2	0	2
B	5	6	4	0	2
C	7	6	4	0	2
D	10	11	6	1	2
E	12	13	9	1	2
F	15	16	10	2	2
G	20	21	14	3	2
H	25	26	16	4	2
I	30	31	20	5	2

NOTE:-
 ALL TIE BARS TO BE SPOT WELDED TO BACK OF ANGLE AND 1-6" C-C AS SHOWN. DRILL 3/4" HOLES IN BOTTOM FLANGE OF ANGLE TO TAKE SUPPORT BAR BOLTS AND END BOLTS AS SHOWN.



SUPPORT BAR DETAILS FOR VARIOUS HEIGHT CULVERT OPENINGS.



CITY OF PASADENA
 OFFICE OF CITY ENGINEER & SUPERVISOR OF STREETS
 STANDARD
 CULVERT OPENINGS
 AND APPURTENANCES.
 SUBMITTED BY: ACQUILINO DRAWN BY: R.A.M.
 ASSISTANT ENGINEER - CHECKED BY: R.A.M.
 APPROVED BY: W. H. V. V.
 CITY ENGINEER & SUPERVISOR OF STREETS
 DATE: April 1, 1933