

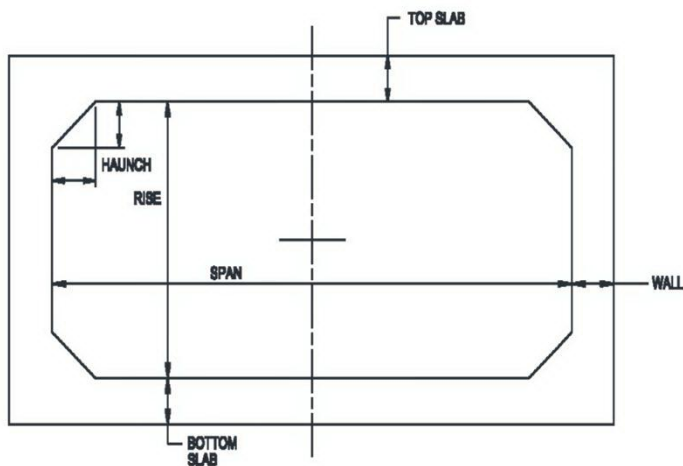


-Box culverts can be made in accordance with ASTM C 1577, AASHTO, Greenbook, and Caltrans standards

- 3' x 2' to 3' x 3', 8' Joint with 6" Haunch
- 4' x 2' to 8' x 8', 8' Joint with 8" Haunch
- 6' x 3' to 12' x 12', 8' Joint with 12" Haunch
- Note that 6' x 3' to 8' x 8' can have both 8" and 12" Haunches

Dimensions and Approximate Weights of Concrete Box

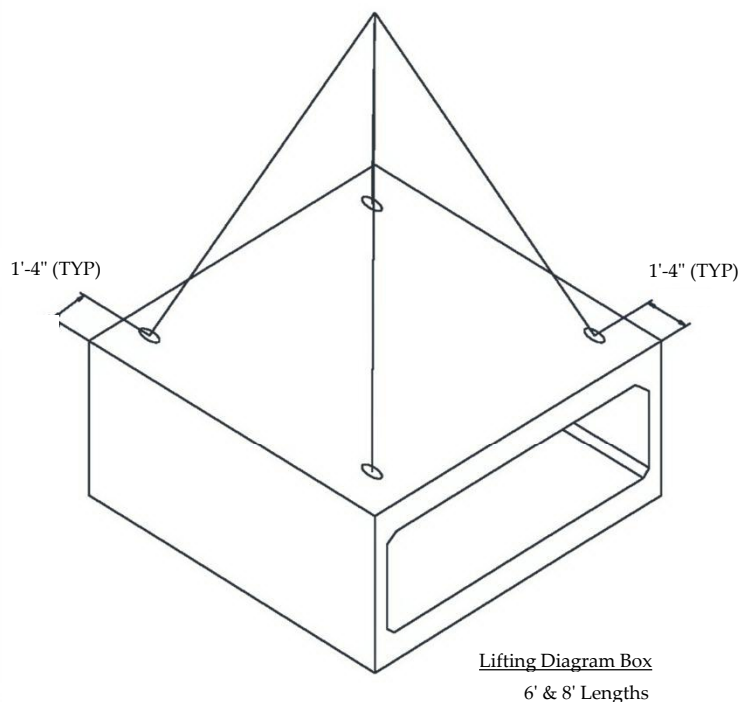
ASTM C 1577 for 2' to 20' Earth Cover						
Size	Thickness					
Span (ft)	Rise (ft)	Top Slab (in)	Bottom Slab (in)	Wall (in)	Approx. Waterway Area (sq. ft.)	Approx. Weight (lbs./ft.)
3	2	7	6	6	5.5	1030
3	3	7	6	6	8.5	1180
4	2	5	5	5	7.1	990
4	3	5	5	5	11.1	1110
4	4	5	5	5	15.1	1240
5	3	6	6	6	14.1	1480
5	4	6	6	6	19.1	1630
5	5	6	6	6	24.1	1780
6	2	7	7	7	11.1	1740
6	3	7	7	7	17.1 (1)	1910.0 (1)
6	4	7	7	7	23.1 (1)	2090.0 (1)
6	5	7	7	7	29.1 (1)	2260.0 (1)
6	6	7	7	7	35.1 (1)	2440.0 (1)
7	4	8	8	8	27.1 (1)	2600.0 (1)
7	5	8	8	8	34.1 (1)	2800.0 (1)
7	6	8	8	8	41.1 (1)	3000.0 (1)
7	7	8	8	8	48.1 (1)	3200.0 (1)
8	4	8	8	8	31.1 (1)	2800.0 (1)
8	5	8	8	8	39.1 (1)	3000.0 (1)
8	6	8	8	8	47.1 (1)	3200.0 (1)
8	7	8	8	8	55.1 (1)	3400.0 (1)
8	8	8	8	8	63.1 (1)	3600.0 (1)
9	5	9	9	9	43.0	3790
9	6	9	9	9	52.0	4010
9	7	9	9	9	61.0	4240
9	8	9	9	9	70.0	4460
9	9	9	9	9	79.0	4690
10	5	10	10	10	48.0	4470
10	6	10	10	10	58.0	4720
10	7	10	10	10	68.0	4970
10	8	10	10	10	78.0	5220
10	9	10	10	10	88.0	5470
10	10	10	10	10	98.0	5720
11	4	11	11	11	42.0	4930
11	6	11	11	11	64.0	5480
11	8	11	11	11	86.0	6030
11	10	11	11	11	108.0	6580
11	11	11	11	11	119.0	6850
12	4	12	12	12	46.0	5700
12	6	12	12	12	70.0	6300
12	8	12	12	12	94.0	6900
12	10	12	12	12	118.0	7500
12	12	12	12	12	142.0	8100



ASTM C 1577 for 0' to 2' Earth Cover						
Size	Thickness					
Span (ft)	Rise (ft)	Top Slab (in)	Bottom Slab (in)	Wall (in)	Approx. Waterway Area (sq. ft.)	Approx. Weight (lbs./ft.)
3	2	7	6	6	5.5	1030
3	3	7	6	6	8.5	1180
4	2	8	7	5	7.1	1290
4	3	8	7	5	11.1	1410
4	4	8	7	5	15.1	1540
5	3	8	7	6	14.1	1710
5	4	8	7	6	19.1	1860
5	5	8	7	6	24.1	2010
6	2	8	7	7	11.1	1830
6	3	8	7	7	17.1 (1)	2000.0 (1)
6	4	8	7	7	23.1 (1)	2180.0 (1)
6	5	8	7	7	29.1 (1)	2350.0 (1)
6	6	8	7	7	35.1 (1)	2530.0 (1)

(1) Based on 8" haunch. Will differ for 12" haunch.

* 7' x 4' to 12' x 12' same as in 2' to 20' Earth Cover



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Typical Reinforced Concrete Box Culvert Sections

SCALE: N.T.S.

DRAWN BY: A. BARAJAS

SHEET NUMBER

DATE:

CHECKED BY: