

CULVERT SIZE (FEET) SPAN X RISE	1 ½ : 1 Slope				2 : 1 Slope			
	EC-3 Type B	Depth (T) (18")	Depth (T) (24")	Depth (T) (36")	EC-3 Type B	Depth (T) (18")	Depth (T) (24")	Depth (T) (36")
		Class A1	Class I	Class II		Class A1	Class I	Class II
	Sq. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.	Sq. Yds.	Cu. Yds.	Cu. Yds.	Cu. Yds.
3 x 3	21.69	10.85	14.46	21.69	21.03	10.52	14.02	21.03
3 x 4	29.61	14.81	19.74	29.61	29.40	14.70	19.60	29.40
4 x 3	29.07	14.54	19.38	29.07	27.48	13.74	18.32	27.48
4 x 4	38.67	19.34	25.78	38.67	37.59	18.80	25.06	37.59
4 x 5	49.22	24.61	32.81	49.22	48.87	24.44	32.58	48.87
4 x 6	60.56	30.28	40.37	60.56	61.35	30.68	40.90	61.35
5 x 3	37.22	18.61	24.81	37.22	34.55	17.27	23.03	34.55
5 x 4	48.27	24.14	32.18	48.27	45.90	22.95	30.60	45.90
5 x 5	60.39	30.20	40.26	60.39	62.21	31.10	41.47	62.21
5 x 6	73.35	36.68	48.90	73.35	72.50	36.25	48.33	72.50
5 x 7	87.30	43.65	58.20	87.30	87.38	43.69	58.25	87.38
6 x 4	58.77	29.39	39.18	58.77	55.04	27.52	36.69	55.04
6 x 5	72.35	36.17	48.23	72.35	69.00	34.50	46.00	69.00
6 x 6	86.93	43.46	57.95	86.93	84.30	42.15	56.20	84.30
6 x 7	100.83	50.42	67.22	100.83	100.64	50.32	67.09	100.64
6 x 8	118.52	59.26	79.01	118.52	118.22	59.11	78.81	118.22
7 x 4	84.98	42.49	56.65	84.98	64.86	32.43	43.24	64.86
7 x 6	101.27	50.63	67.51	101.27	96.74	48.37	64.49	96.74
7 x 8	136.32	68.16	90.88	136.32	133.52	66.76	89.01	133.52
7 x 10	174.42	87.21	116.28	174.42	174.21	87.11	116.14	174.21
8 x 4	81.96	40.98	54.64	81.96	75.36	37.68	50.24	75.36
8 x 6	116.39	58.19	77.59	116.39	109.85	54.92	73.23	109.85
8 x 8	154.32	77.16	102.88	154.32	150.05	75.02	100.03	150.05
8 x 10	196.26	98.13	130.84	196.26	182.82	91.41	121.88	182.82
9 x 4	94.68	47.34	63.12	94.68	86.52	43.26	57.68	86.52
9 x 6	132.45	66.23	88.30	132.45	123.81	61.91	82.54	123.81
9 x 8	167.51	83.75	111.67	167.51	166.50	83.25	111.00	166.50
9 x 10	218.42	109.21	145.61	218.42	225.68	112.84	150.45	225.68
9 x 12	266.64	133.32	177.76	266.64	305.79	152.90	203.86	305.79
10 x 4	108.18	54.09	72.12	108.18	98.34	49.17	65.56	98.34
10 x 6	149.27	74.63	99.51	149.27	138.45	69.23	92.30	138.45
10 x 8	193.16	96.58	128.77	193.16	183.66	91.83	122.44	183.66
10 x 10	241.77	120.89	161.18	241.77	234.47	117.23	156.31	234.47
10 x 12	293.69	146.84	195.79	293.69	289.74	144.87	193.16	289.74
12 x 6	184.10	92.05	122.73	184.10	170.30	85.15	113.53	170.30
12 x 8	235.04	117.52	156.69	235.04	219.90	109.95	146.60	219.90
12 x 10	289.53	144.77	193.02	289.53	276.30	138.15	184.20	276.30
12 x 12	348.38	174.19	232.25	348.38	337.88	168.94	225.25	337.88

TABLE D-18 CULVERT OUTLET PROTECTION FOR BOX CULVERT ST'D BCS-02 THRU BCS-50 (30° SKEW)

Quantities To Be Used Only For Computations of Dry Rip Rap For Outlet Protection.*

* Rev. 7/10