

PIPE ARCH SPAN RISE (mm)	1 ½ : 1 Slope		2:1 Slope	
	Normal Depth (0.6m)	Increments For Each Add'l. 0.3 m Above Normal	Normal Depth (0.6m)	Increments For Each Add'l. 0.3 m Above Normal
	Cu. Meters	Cu. Meters	Cu. Meters	Cu. Meters
450 340	1.48	0.72	1.35	0.68
510 380	1.87	0.93	1.75	0.87
560 420	2.30	1.15	2.15	1.07
680 500	3.29	1.65	3.08	1.54
800 580	4.59	2.30	4.29	2.15
910 660	6.11	3.06	5.72	2.86
1030 740	7.75	3.87	7.25	3.63
1150 820	9.60	4.80	8.99	4.50
1390 970	13.70	6.85	12.81	6.40
1630 1120	18.52	9.26	17.31	8.65

**TABLE D-3M**

**STONE FOR EROSION CONTROL WITH ST'D. ES-3 END SECTIONS**

CULVERT SIZE DIAMETER (mm)	1 ½ : 1 Slope		2:1 Slope		Increments For Each Add'l. Pipe (St'd. EW-6)	
	Normal Depth (0.6m)	Increments For Each Add'l. 0.3 m Above Normal	Normal Depth (0.6m)	Increments For Each Add'l. 0.3 m Above Normal	Conc.	C.M.
	Cu. Meters	Cu. Meters	Cu. Meters	Cu. Meters	Cu Yds	Cu Yds.
300	0.53	0.26	0.50	0.25	0.26	0.22
375	0.83	0.41	0.79	0.39	0.40	0.35
450	1.20	0.60	1.14	0.57	0.58	0.51
600	2.13	1.07	2.02	1.01	1.01	0.90
750	3.34	1.67	3.17	1.59	1.60	1.41
900	4.84	2.42	4.60	2.30	2.34	2.07

**TABLE D-4M**

**STONE FOR EROSION CONTROL WITH ST'D. EW-1 AND EW-6 ENDWALLS**

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

\* Rev. 7/10