

OPENING		DIMENSIONS								QUANTITIES	
D	AREA	A	B	C	E	F	H	L	S	CONC CY	STEEL LBS
INCHES	SQ FT										
14 X 23	1.8	9"	8"	6"	1'-11"	12"	2'-2"	8'-7"	6"	0.88	56
19 X 30	3.3	9"	8"	6"	1'-11"	12"	2'-6"	10'-6"	6"	1.15	63
22 X 34	4.1	9"	14"	6"	2'-5"	13"	2'-11"	12'-6"	6"	1.74	100
24 X 38	5.1	9"	14"	6"	2'-5"	13"	3'-1"	13'-6"	6"	1.92	116
27 X 42	6.3	9"	14"	6"	2'-5"	13"	3'-4"	14'-10"	6"	2.19	124
29 X 45	7.4	9"	14"	10"	2'-9"	14"	3'-7"	16'-0"	8"	2.61	141
32 X 49	8.8	12"	16"	10"	3'-2"	14"	3'-10"	17'-0"	8"	4.08	202
34 X 53	10.2	12"	16"	10"	3'-2"	14"	4'-0"	18'-0"	8"	4.40	210
38 X 60	12.9	12"	16"	10"	3'-2"	15"	4'-5"	20'-4"	8"	5.23	266
43 X 68	16.6	12"	20"	12"	3'-8"	15"	4'-10"	22'-8"	8"	6.52	307



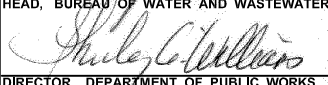
NOTE: QUANTITIES IN TABLE TO BE USED FOR ESTIMATING ONLY

## HORIZONTAL ELLIPTICAL CONCRETE PIPE

OPENING		DIMENSIONS								QUANTITIES	
D	AREA	A	B	C	E	F	H	L	S	CONC CY	STEEL LBS
INCHES	SQ FT										
12	0.79	9"	6"	6"	1'-9"	9"	1'-9"	6'-6"	4"	0.61	41
15	1.23	9"	6"	6"	1'-9"	9"	2'-0"	7'-9"	4"	0.77	47
18	1.77	9"	6"	6"	1'-9"	9"	2'-3"	9'-0"	4"	0.95	54
21	2.40	9"	6"	6"	1'-9"	9"	2'-6"	10'-3"	4"	1.14	70
24	3.14	9"	14"	6"	2'-5"	9"	2'-9"	11'-6"	6"	1.56	80
27	3.98	9"	14"	6"	2'-5"	9"	3'-0"	12'-10"	6"	1.82	88
30	4.91	9"	14"	6"	2'-5"	12"	3'-6"	14'-2"	6"	2.22	98
33	5.94	9"	14"	6"	2'-5"	12"	3'-9"	15'-5"	6"	2.48	105
36	7.07	12"	16"	10"	3'-2"	12"	4'-0"	16'-8"	6"	4.16	182
42	9.62	12"	16"	10"	3'-2"	12"	4'-6"	19'-2"	8"	5.07	206
48	12.57	12"	16"	10"	3'-2"	12"	5'-0"	21'-8"	8"	6.09	244
54	15.90	12"	20"	12"	3'-8"	12"	5'-6"	24'-2"	8"	7.62	275
60	19.64	12"	20"	12"	3'-8"	12"	6'-0"	26'-8"	8"	8.82	304
72	28.27	12"	20"	12"	3'-8"	12"	7'-0"	31'-8"	8"	11.46	377

NOTE: QUANTITIES IN TABLE TO BE USED FOR ESTIMATING ONLY

## CIRCULAR REINFORCED CONCRETE PIPE

	APPROVED :  HEAD, BUREAU OF WATER AND WASTEWATER	CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF WATER AND WASTEWATER	ISSUED	REVISED	REVISED
	 DIRECTOR, DEPARTMENT OF PUBLIC WORKS		3 / 2008		
TYPE 'C' ENDWALL CIRCULAR AND ELLIPTICAL PIPE TABLES			<b>STANDARD NO.</b> <b>BC 354.02</b>		
			SCALE : NONE	SHEET 2 OF 2	