

**DISPOSITION OF BARS DETAIL**

NO. 4 BARS HORIZONTAL @ 1'-0" CC BELOW OPENING

GEOTEXTILE  
3'-0" (MIN)

PROVIDE RIPRAP OR GABIONS TO PREVENT SCOUR AT TOEWALL (COST SEPARATE)

**SECTION A-A**

NO. 4 BARS HORIZONTAL @ 1'-7" MAX CC BOTH FACES BOTTOM BARS BENT ALONG ENDWALL OTHERS STRAIGHT.

NO. 4 BENT BARS @ 1'-0" CC BOTH WINGWALLS - ALL ENDWALLS

1 NO. 4 BENT BAR HORIZONTAL  
1 NO. 4 BENT BAR HORIZONTAL

2 NO. 4 STRAIGHT BARS HORIZONTAL, 1 EACH WINGWALL

NO. 4 STRAIGHT BARS HORIZONTAL @ 1'-0" CC @ BOTH SIDES OF OPENING





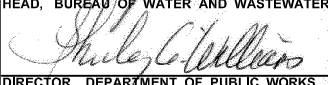
**SECTION B-B**

**NOTES:**

1. SPECIFICATIONS: LATEST DPW
2. CONCRETE SHALL BE MIX 3
3. REINFORCING: DEFORMED STEEL BARS NO. 4 AND NO. 6
4. CHAMFER: ALL EXPOSED EDGES 1"x1" OR AS DIRECTED
5. SCOUR PROTECTION: FINAL LIMITS TO BE DETERMINED BY ENGINEER

OPENING		DIMENSIONS												QUANTITIES	
D INCHES	AREA SQ FT	B	C	E	F	G	H	J	K	L	M	N	O	CONC CY	STEEL LBS
48"	12.57	1'-4"	10"	3'-2"	2'-9"	7'-0 3/4"	5'-0"	4'-10"	6'-3 1/2"	6'-8 1/2"	5'-9"	2'-10 3/4"	5'-6"	4.3	262
54"	15.9	1'-8"	1'-0"	3'-8"	3'-0"	7'-8 1/2"	5'-6"	5'-4"	6'-10 1/2"	7'-3 1/2"	6'-2 1/4"	3'-1 1/2"	6'-2"	5.3	301
60"	19.64	1'-8"	1'-0"	3'-8"	3'-3"	8'-5"	6'-0"	5'-10"	7'-7 1/4"	8'-0 1/4"	6'-11"	3'-7 1/2"	6'-8"	6.0	361
66"	23.80	2'-6"	1'-3"	4'-9"	3'-0"	11'-2 1/2"	6'-8 1/2"	6'-4"	10'-3 1/4"	10'-8 1/2"	9'-3"	3'-5"	7'-4 1/2"	9.7	585
72"	28.27	2'-6"	1'-3"	4'-9"	3'-3"	12'-1"	7'-3"	6'-10"	11'-1 3/4"	11'-6 3/4"	10'-1 1/4"	3'-11"	7'-10 1/2"	10.9	645
78"	33.20	3'-0"	1'-6"	5'-6"	3'-6"	13'-0 1/2"	7'-9 1/2"	7'-4"	12'-0"	12'-5"	10'-9"	4'-0"	8'-6 3/4"	13.3	865
84"	38.48	3'-0"	1'-6"	5'-6"	3'-9"	13'-10"	8'-4"	7'-10"	12'-9 1/2"	13'-2 1/2"	11'-6 1/2"	4'-6"	9'-0 3/4"	14.7	984

NOTE: QUANTITIES IN TABLE TO BE USED FOR ESTIMATING ONLY

	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 'B' ENDWALLS B-48, B-54, B-60, B-66, B-72, B-78, B-84		<b>STANDARD NO.</b> <b>BC 352.02</b>			
		SCALE: NONE		SHEET 1 OF 1	