



CHAMBER NO.	CHAMBER	BUTTERFLY VALVE	SURFACE IN ELEV.	DIFFERENCE IN ELEV.	COVER LOCATION	DRAIN TYPE	FOR LOCATION	REMARKS

- NOTES:
- 25MPa concrete to be used except as noted.
 - MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20mm.
 - COVER TO MAIN REINFORCEMENT TO BE 50mm OR AS INDICATED.
 - ALL BAR DIMENSIONS ARE OUT TO OUT.
 - ALL BARS TO BE BENT COLD, MINIMUM INSIDE RADIUS TO 4 DIAMETERS.
 - ALL CROSSING BARS TO BE WELL WELDED.
 - ALL REINFORCING STEEL TO BE DEFORMED BILLET-STEEL BARS GRADE 350, CONFORMING TO C.S.A. STANDARD G30.2M.
 - ALL LAPS IN REINFORCING STEEL TO BE AT LEAST 30 DIAMETERS IN LENGTH OR AS SHOWN, AND TO BE STAGGERED.
 - ALL BRICKWORK TO BE OF HIGH QUALITY HARD SEWER BRICK, LAID IN FULL MORTAR BED AND JOINTS, PARSED INSIDE AND OUT.
 - WATERSTOP (PVC) TO BE PROVIDED AT ALL CONSTRUCTION JOINTS.
 - WHERE NECESSARY ADJUST REINFORCING STEEL TO SUIT WATERSTOPS AND OPENINGS.
 - PROVIDE SUMP PIT WITH GRATING AND SLOPE FLOOR TO SUMP 10mm/METRE.
 - DRAIN OUTLET TO BE LOCATED AT NEAREST POINT TO EXISTING SEWER. IF ELEVATION OF SEWER IS HIGHER THAN CHAMBER FLOOR THE DRAIN MAY BE CLAMPED TO THE WALL BY AN APPROVED METHOD, IF NO SEWER IS AVAILABLE DRILL DRAIN TYPE 'A' AND CONSTRUCT DRAIN TYPE 'B' AND INSTALL PIPE WITH STOPPER AS SHOWN ON DWG.
 - DRAIN CONNECTION TO SEWER TO BE MADE BY CONTRACTOR UNLESS OTHERWISE STATED IN THE GENERAL SPECIFICATIONS.
 - LADDERS, GRATINGS AND RAILINGS TO BE ALUMINUM AND OF REMOVABLE TYPE WITH STAINLESS STEEL BOLTS.
 - TOP TWO STEPS AND ANY ADDITIONAL STEPS IN THE CHIMNEY TO BE OF THE REMOVABLE TYPE.
 - CHAMBERS DEEPER THAN 1200mm FROM SURFACE ELEVATION TO TOP OF VALVE OPERATING SPINDLE SHALL HAVE EXTENSION SPINDLE AND GUIDE BRACKET.
 - ALL ALUMINUM SURFACES CONTACTING CONCRETE TO RECEIVE ONE COAT OF BITUMINOUS PAINT.
 - 'X' DEPENDS ON HEIGHT (H) & BARS SHALL BE COUNTED TO ENSURE THAT THE BOTTOM BAR IS LESS THAN 150mm ABOVE THE ROOF CHAMBER.

BENDING SCHEDULE									
BAR NO.	DA	TOTAL LENGTH	DIMENSIONS				SHAPE	D.C.	NO. REQD.
			a	b	c	d			
1001	10	300	220	220	220	220		200	7
1002	10	700	120	230	120	120		200	16
1003	10	1840	520	230	520	230		200	19
1004	10	1800	300	230	300	230		200	18
1005	10	1770						AS SHOWN	16
1006	10	1425						200	8
1007	10	1460						AS SHOWN	8
1008	10	2200						200	8
1009	10	1400						200	5
10010	10	1400						200	5
10011	10	1400						200	5
10012	10	1400						200	5
10013	10	1400						200	5
10014	10	1400						200	5
10015	10	1400						200	5
10016	10	1400						200	5
10017	10	1400						200	5
10018	10	1400						200	5
10019	10	1400						200	5
10020	10	1400						200	5
10021	10	1400						200	5
10022	10	1400						200	5
10023	10	1400						AS SHOWN	5
10024	10	1400						200	5
10025	10	1400						200	5
10026	10	1400						200	5
10027	10	1400						200	5
10028	10	1400						200	5
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