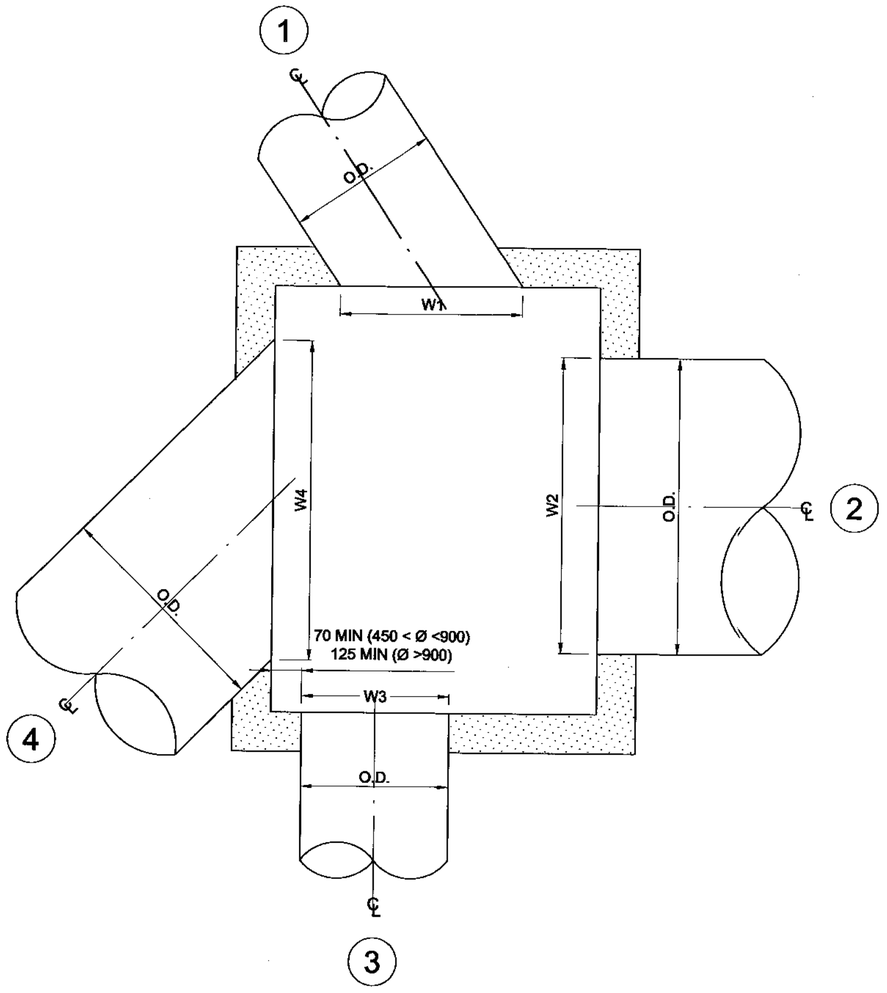


LAYOUT OF CHAMBER

TABLE 1

NOMINAL DIAMETER	ANGLE OF SKEW Θ			
	0°	15°	30°	45°
450 Ø	533	552	615	754
600 Ø	699	724	807	989
750 Ø	870	901	1005	1230
900 Ø	1029	1065	1188	1455
1050 Ø	1194	1236	1379	1689
1200 Ø	1359	1407	1569	1922
1350 Ø	1524	1578	1760	2155

VALUES OF EXTERNAL PIPE ENTRY / EXIT WIDTHS (Wx) FOR DIFFERENT PIPE DIAMETERS (ØØ)

TABLE 2

SELECT PIPE DIAM. WITH LARGEST VALUE OF W_1 OR W_3

SELECT PIPE DIAM. WITH LARGEST VALUE OF W_2 OR W_4	Ø	Θ°	450				600				750				900				1050				1200				1350			
			0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45	0	15	30	45
	450	0	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		15	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		30	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		45	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
	600	0	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		15	A	A	A	A	A	A	B	B	B	B	B	D	B	B	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		30	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	D	D	F	F	F	F	F	H	F	F	F	H
		45	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	D	D	F	F	F	F	F	H	F	F	F	H
	750	0	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	D	E	F	F	F	F	F	H	F	F	F	H
		15	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	D	E	F	F	F	F	F	H	F	F	F	H
		30	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	E	E	F	F	F	F	F	H	F	F	F	H
		45	D	D	D	D	D	D	D	D	D	D	D	E	D	D	E	F	E	E	F	F	F	F	F	H	F	F	F	H
	900	0	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	E	E	F	F	F	F	F	H	F	F	F	H
		15	B	B	B	B	B	B	C	C	C	C	C	D	C	C	D	F	E	E	F	F	F	F	F	H	F	F	F	H
		30	D	D	D	D	D	D	D	D	D	D	D	E	D	D	E	F	E	E	F	F	F	F	F	H	F	F	F	H
		45	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
	1050	0	D	D	D	D	D	D	D	D	D	D	E	E	D	D	E	F	E	E	F	F	F	F	F	H	F	F	F	H
		15	D	D	D	D	D	D	D	D	E	E	E	E	D	D	E	F	E	E	F	F	F	F	F	H	F	F	F	H
		30	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		45	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
	1200	0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		30	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		45	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	I	H	H	H	I
	1350	0	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		15	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		30	F	F	F	F	F	F	F	F	F	F	F	F	F	F	F	G	F	F	G	G	G	G	G	H	G	G	G	H
		45	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	I	H	H	H	I

INTERNAL CHAMBER SIZES

CHAMBER TYPE	INTERNAL CHAMBER SIZE
A	900 x 900
B	1200 x 900
C	1200 x 1200
D	1500 x 1200
E	1500 x 1500
F	2000 x 1500
G	2000 x 2000
H	2500 x 2000
I	2500 x 2500
J*	2000 x 1000

PROCEDURE:

1. CONSIDER PIPES 1 AND / OR 3 FROM TABLE 1, DETERMINE WHICH PIPE HAS THE LARGEST EXTERNAL PIPE ENTRY / EXIT WIDTH (Wx).
2. REPEAT THE PROCEDURE FOR 2 AND / OR 4.
3. USING THE TWO PIPES WITH THE LARGEST EXTERNAL PIPE ENTRY / EXIT WIDTH, READ FROM TABLE 2 THE SIZE OF THE CHAMBER REQUIRED.
4. IN CASE EITHER PIPES 1 AND 2 OR 2 AND 4 DO NOT EXIST, SELECT THE CHAMBER TYPE FROM THE COLUMN OR ROW FOR A 450 Ø PIPE AT 0° SKEW FROM TABLE 2.
5. REFER TO DRAWING NO: TD-D-MC-002 FOR CHAMBER DIMENSIONS.
6. SMALLER CHAMBERS THAN TYPE 'A' FOR USE AT MISCELLANEOUS INLET STRUCTURES MAY BE CONSIDERED.

LEGEND:

Ø = NOMINAL DIAMETER OF PIPE
Θ = SKEW ANGLE
Wx = PIPE ENTRY / EXIT WIDTH
O.D. = OUTSIDE DIAMETER

NOTES:

1. TABLE 1 IS CALCULATED USING CLASS 100 "D" PIPES.
2. TYPE J* CHAMBERS FOR USE AT MEDIAN CATCHPITS (INLET TYPE 3)

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No.	DATE	REVISION	APPROVED
VI	SEPT 2014	ORIGINAL VERSION	

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TYPICAL DRAWINGS - DRAINAGE

MANHOLES AND GRID INLET CHAMBERS
DETERMINATION OF CHAMBER SIZES
SHEET 1 OF 4

SANRAL DOC. No. (PDF)	1693616
SANRAL DOC. No. (DWG)	1796060
SANRAL DRAWING No.	TD-D-MC-1001-V1