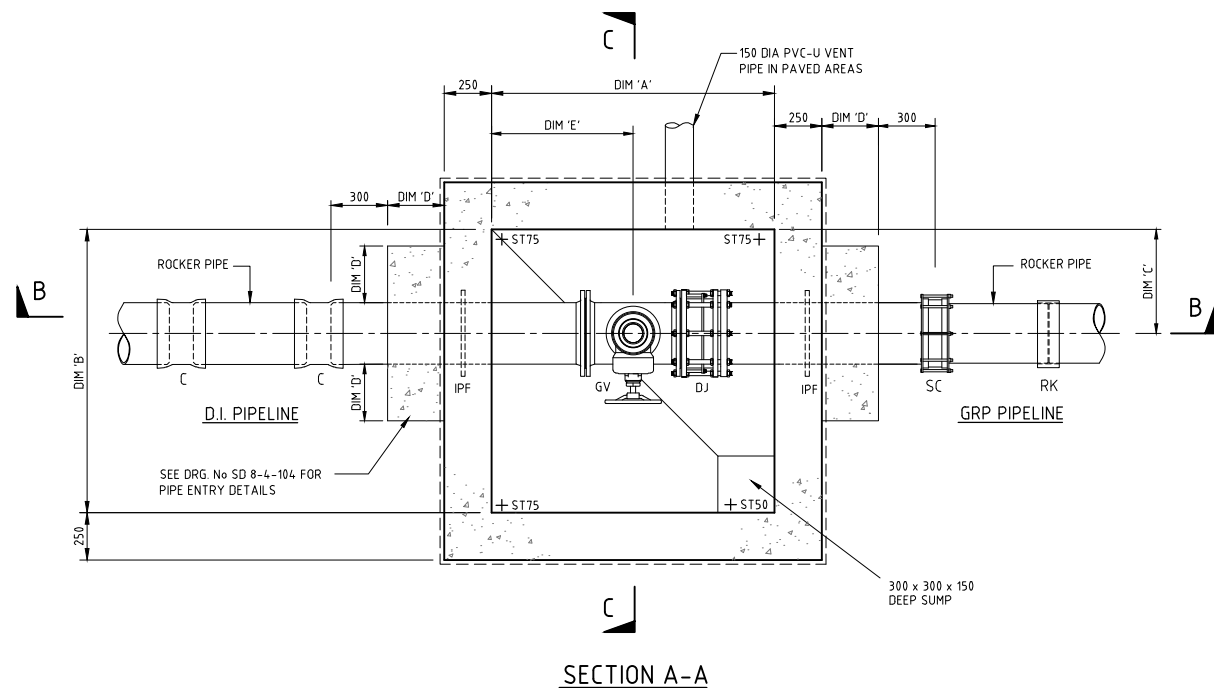
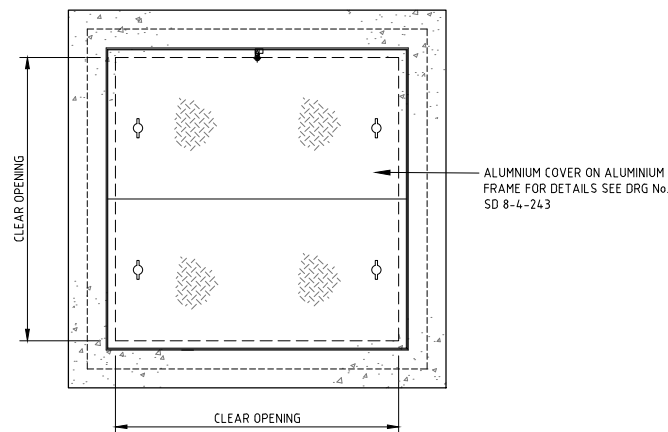
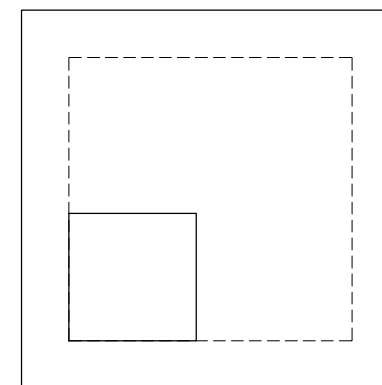




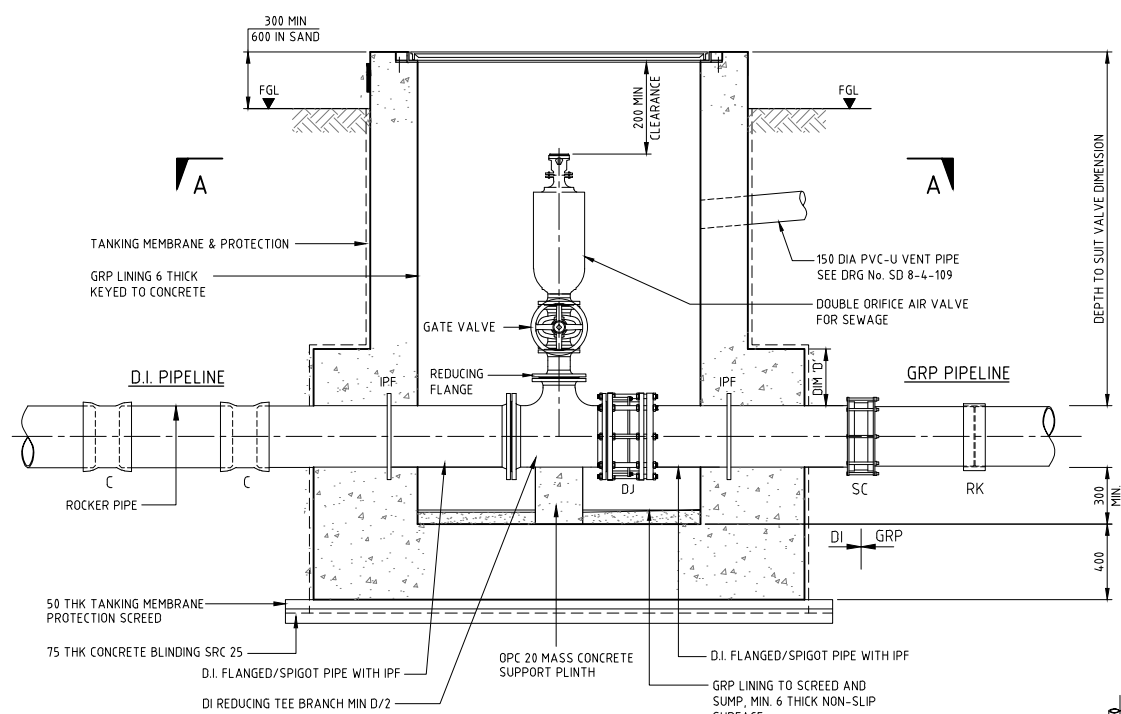
SECTION A-A



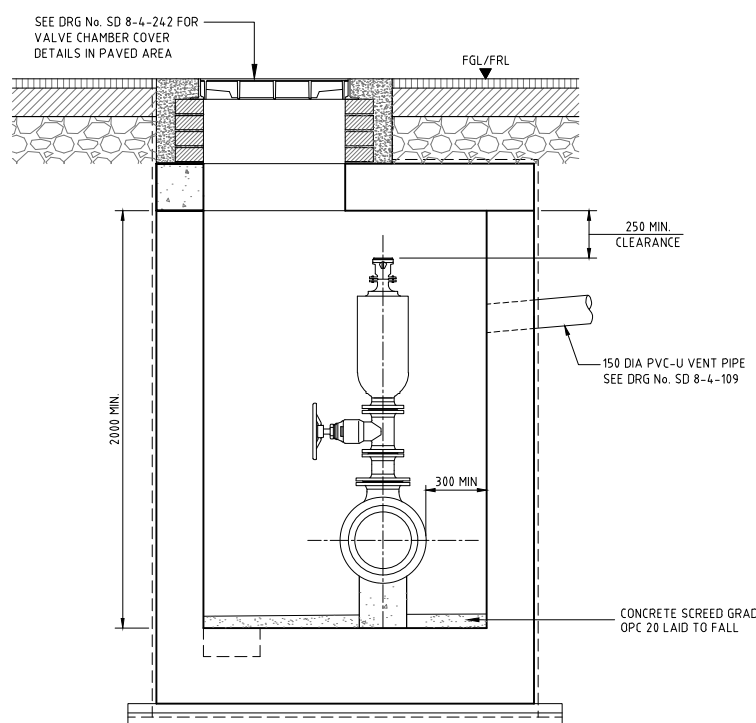
PLAN AT ROOF LEVEL
OPEN LAND



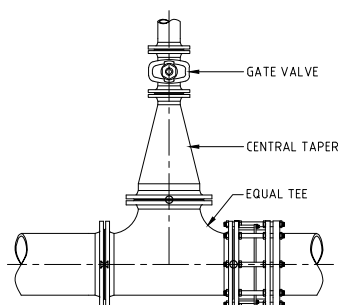
PLAN AT ROOF LEVEL
PAVED AREAS



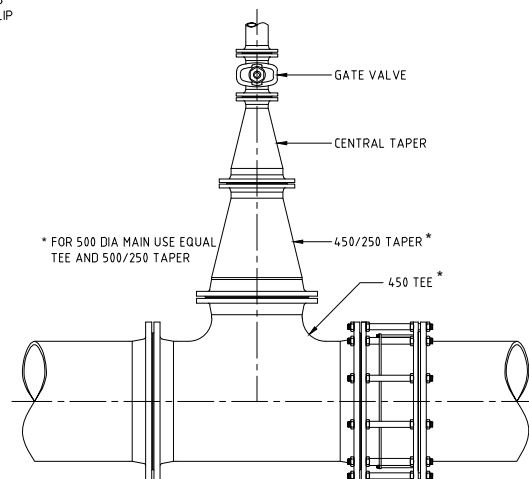
SECTION B-B
(OPEN LAND)



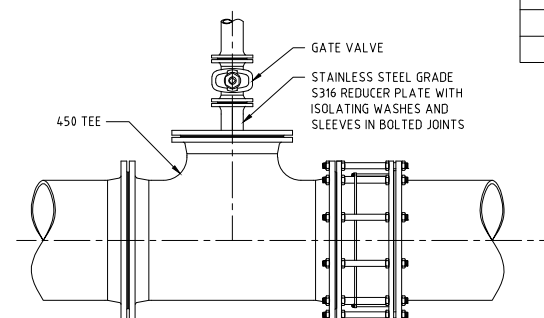
SECTION C-C
(PAVED AREA)



PIPES 450 DIA AND BELOW



PIPES 600 DIA AND GREATER



PIPES 500 DIA AND GREATER

ALTERNATIVE DETAILS FOR JUNCTION

PIPE SIZE	TYPICAL AIR VALVE SIZE
UP TO 250	80
250-600	100
600-900	150
900-1000	200
> 1000	2 x 200

AIR VALVE CHAMBER DIMENSIONS - SEE NOTE 20					
PIPE DIA	DIM 'A'	DIM 'B'	DIM 'C'	DIM 'D'	DIM 'E'
200	1400	1400	470	300	560
250	1500	1500	500	300	600
300	1700	1550	550	300	700
400	1900	1650	600	300	750
500	2000	1800	700	300	800
600	2100	2100	950	500	850
800	1900	2300	1050	500	755
900	1900	2400	1100	500	775
1000	2000	2500	1150	500	795
1200	2100	2800	1250	500	850

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT Q.C.S. UNLESS OTHERWISE AGREED WITH THE ENGINEER.
- ALL JOINTS BETWEEN CONCRETE AND PIPES SHALL BE WATERTIGHT.
- ALL EXTERNAL FACES TO BE TANKED IN ACCORDANCE WITH SPECIFICATION FOR TANKING DETAILS SEE DRG No. SD 8-4-103.
- ALL INTERNAL SURFACES ARE TO BE COATED AS SPECIFIED IN QCS.
- ALL DUCTILE IRON PIPEWORK TO BE WRAPPED IN ACCORDANCE WITH THE SPECIFICATION.
- ALL STRUCTURAL CONCRETE SHALL BE MINIMUM GRADE SRC 40 UNLESS OTHERWISE NOTED.
- SEE DRG No SD 8-4-106 FOR STRUCTURAL NOTES.
- 7mm NEOPRENE PAD SHALL BE PLACED BETWEEN ALL VALVES AND CONCRETE SUPPORT PLINTHS.
- ALL VALVES AND FITTINGS WITHIN CHAMBERS SHALL BE DUCTILE IRON UNLESS OTHERWISE SPECIFIED. SUITABLE FLEXIBLE COUPLINGS SHALL BE USED TO CONNECT RISING MAIN TO THESE DUCTILE IRON PIPES.
- VALVE SPINDLES TO BE EXTENDED TO 50 BELOW COVER LEVEL FOR TEE KEY OPERATION. SUPPORT BRACKET FOR SPINDLES TO BE PROVIDED WHEN NECESSARY.
- THE CONTRACTOR SHALL PROVIDE THE PIPE SCHEDULE OF FITTINGS FOR THE STRUCTURE PRIOR TO PLACEMENT OF THE ORDER.
- GATE VALVES SHALL BE RATED FOR 16 BARS.
- CONCRETE COVER SLAB WITH HEAVY DUTY DI COVER TO BE USED WHEN CHAMBER IS SUBJECT TO VEHICLE TRAFFIC, SEE DRG No. SD 8-4-242.
- CHAMBER SCHEDULE BASED ON EQUAL MAIN DIAMETERS IN CHAMBER. ALL OTHER CHAMBER COMBINATIONS TO BE DESIGNED BASED ON INDIVIDUAL CASES.
- PROVIDE A MINIMUM CLEARANCE OF 300 BETWEEN CHAMBER WALLS AND OUTER FACE OF FLANGE, OR VALVES FOR PIPES LESS THAN 500 DIA. AND 500 CLEARANCE FOR PIPE SIZES 500 DIA AND GREATER.
- ALL BURIED FLEXIBLE COUPLINGS, FLANGED ADAPTORS AND OTHER FERROUS FITTINGS TO BE PROTECTED WITH MASTIC FILLER, MASTIC TAPE AND LAMINATED TAPE AS PER QCS.
- ROCKER PIPE LENGTHS TO BE 600 OR 1.5 x DIAMETER WHICHEVER IS THE GREATER.
- CHAMBER SCHEDULES ARE BASED ON DI FITTINGS FROM BS EN 545.
- IN PAVED AREAS, STAINLESS STEEL VENT PIPE REQUIRED. SEE DRG No. SD 8-4-109.

LEGEND:

FA	FLANGE ADAPTOR
FC	FLEXIBLE COUPLING
IPF	INTEGRAL PUDDLE FLANGE
GV	GATE VALVE
DI	DUCTILE IRON
ST	SCREED THICKNESS
C/W	COMPLETE WITH
FGL	FINISHED GROUND LEVEL
DJ	DISMANTLING JOINT
C	DI COLLAR
RK	GRP REKA COUPLING
SC	STEPPED COUPLING

Rev.	Date	Revision Details	Appd.
2	APR 19	ISSUED FOR USE	
1	01 MAR 19	REVALIDATED ISSUE	
0	23 NOV 15	ISSUED FOR USE	

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PROJECTS AFFAIRS	
QCS Section:	
Section 8 - Drainage Works Part 4 - Pipeline Installation	

Drawing Title:	SEWAGE RISING MAIN AIR VALVE CHAMBER
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Approved:	Sheet No: 1 OF 1
Date: APRIL 2019	Scale: 1:20 ON A1
Drawing Number: SD 8-4-241	Revision: 2