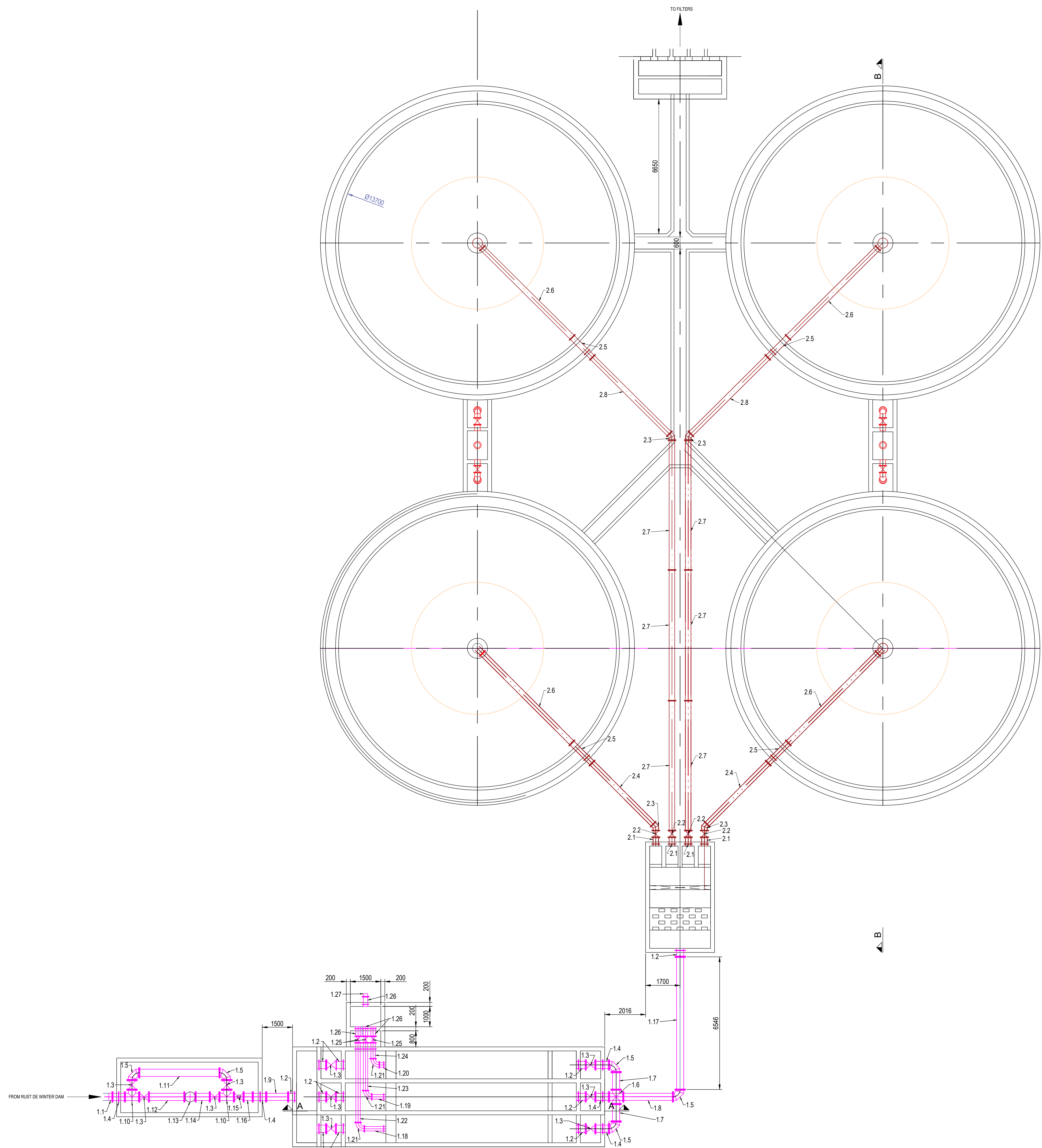
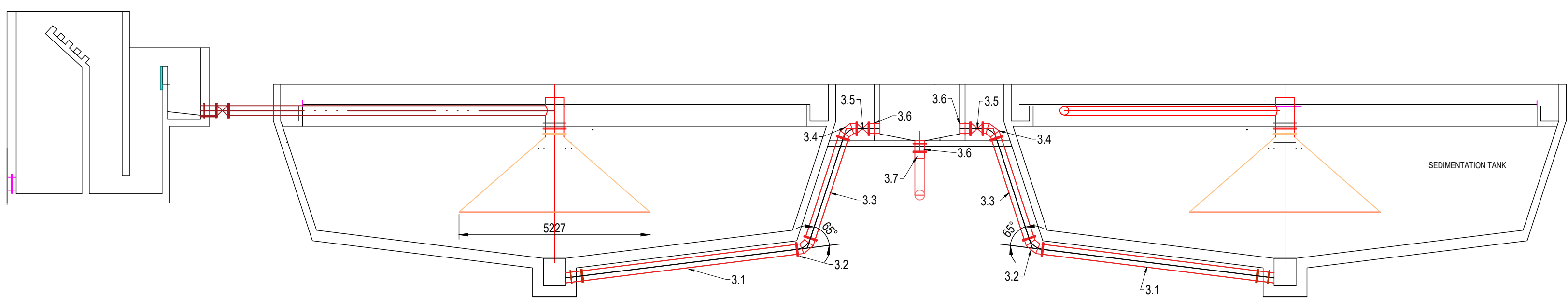




PLAN OF RAW WATER METER CHAMBER, SAND TRAP AND SEDIMENTATION TANK PIPEWORK

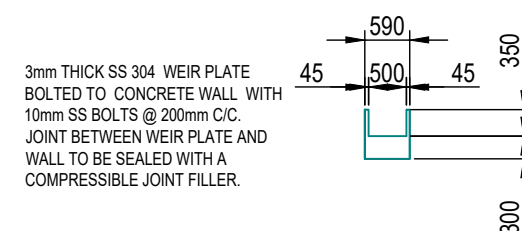
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SECTION B-B

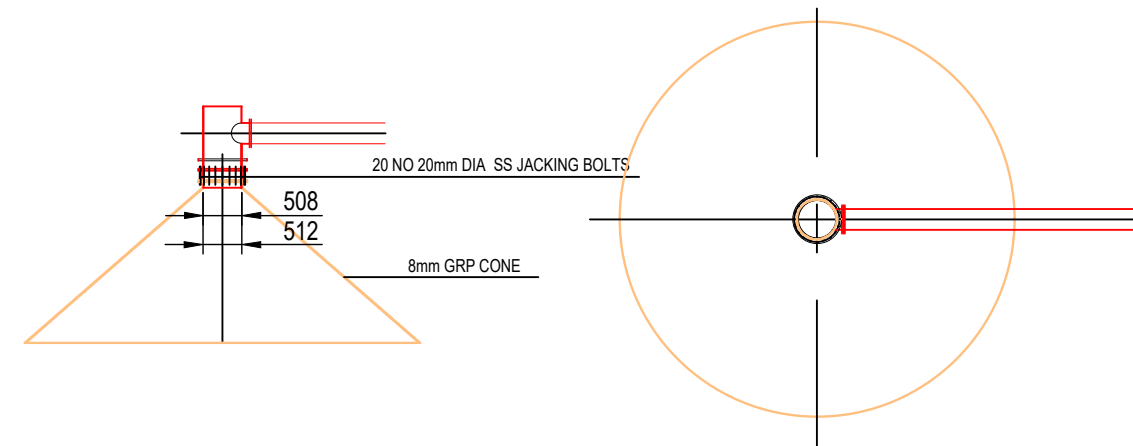
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RAW WATER METER CHAMBER AND SAND TRAP PIPEWORK (SEE PLAN VIEW AND SECTION A-A)			
ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
1.1	350mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	
1.2	350mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 460mm F/F	11	100 480
1.3	350mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	10	470
1.4	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED 300mm FROM ONE END, LENGTH = 660mm F/F	5	300 300
1.5	350mm Ø MS 90 DEG BEND, FLANGED BOTH ENDS	5	355
1.6	350mm Ø MS FLANGED CROSS PIECE	1	710 355
1.7	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 855mm F/F	2	855
1.8	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2436mm F/F	1	2436
1.9	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1075mm F/F	1	1075
1.10	350mm Ø MS FLANGED TEE	2	355
1.11	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 3950mm F/F	1	3950
1.12	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1745mm F/F	1	1745
1.13	350mm Ø ELECTRO MAGNETIC FLOW METER FLANGED	1	550
1.14	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 695mm F/F	1	695
1.15	350mm Ø FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE FITTED WITH ROTOK ACTUATOR	1	470
1.16	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 449mm F/F	1	449
1.17	350mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 6545mm F/F	1	6545
1.18	200mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 1060mm F/F	1	1060 100
1.19	200mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 690mm F/F	1	690 100
1.20	200mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 320mm F/F	1	320 100
1.21	200mm Ø MS 90 DEGREE BEND, FLANGED BOTH ENDS	3	805
1.22	200mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED APPROX. 300mm FROM ONE END, LENGTH = 3928mm F/F	1	3928 300
1.23	200mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED APPROX. 300mm FROM ONE END, LENGTH = 2353mm F/F	1	2353 300
1.24	200mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED APPROX. 300mm FROM ONE END, LENGTH = 778mm F/F	1	778 300
1.25	200mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK SERIES 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	3	317
1.26	200mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 473mm F/F	4	473 100
1.27	200mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	1	



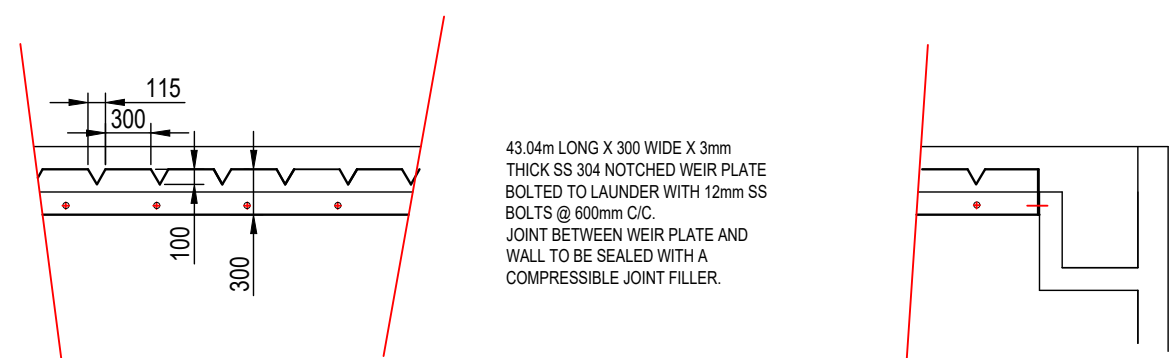
590 WEIR PLATE (4 OFF)

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CONE DETAIL

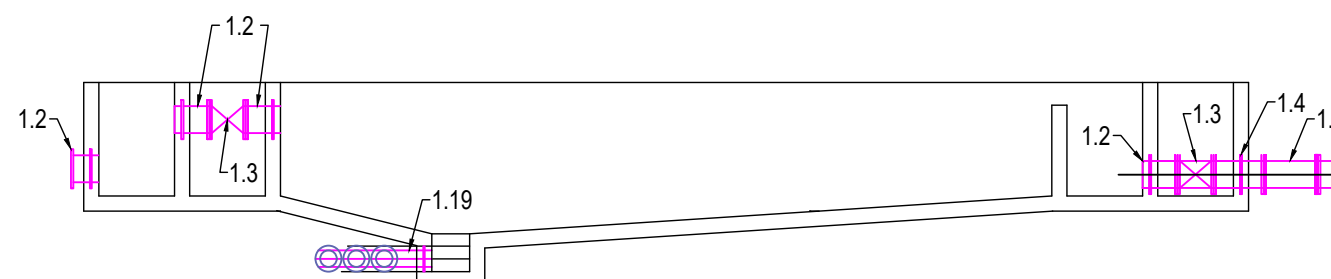
SCALE 1:100



SEDIMENTATION TANK WEIR PLATE DETAIL

SCALE 1:100

SEDIMENTATION TANK FEED PIPEWORK (SEE PLAN VIEW)			
ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
2.1	250mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 430mm F/F	4	330 430
2.2	250mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	4	330
2.3	250mm Ø MS 45 DEGREE FLANGED BEND	4	180 180
2.4	250mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4258mm F/F	2	4258
2.5	250mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS, WITH PUDDLE FLANGE WELDED APPROX. 372mm FROM ONE END, LENGTH = 1400mm F/F	4	1400 372
2.6	250mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 6237mm F/F	4	6237
2.7	250mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4258mm F/F	6	4258
2.8	250mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 5345mm F/F	2	5345
SEDIMENTATION TANK SLUDGE DRAW-OFF PIPEWORK (SEE PLAN VIEW AND SECTION B-B)			
3.1	250mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 152mm FROM PLAIN END, LENGTH = 6387mm F/F	4	152 6387
3.2	250mm Ø MS 65 DEG FLANGED BEND	4	280 280
3.3	250mm Ø MS STRAIGHT PIPE FLANGED BOTH ENDS, LENGTH = 2878mm F/F	4	2878
3.4	250mm Ø MS 72 DEG FLANGED BEND	4	280 280
3.5	250mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	4	330
3.6	250mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 70mm FROM PLAIN END, LENGTH = 300mm F/F	6	300
3.7	250mm Ø VIKING JOHNSON (OR SIMILAR APPROVED) FLANGE ADAPTOR	2	



SECTION A-A

SCALE 1:100

FOR TENDER PURPOSES

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REFERENCE DRAWINGS

Issued For Tender	JSM	14/12/23	0
Revision Details	By	Date	Suffix

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NKANGALA
DISTRICT
MUNICIPALITY

Project Title

WESTERN HIGHVELD WATER
TREATMENT WORKS

Drawing Title
RAW WATER METER, SAND
TRAP AND SEDIMENTATION
TANK PIPEWORK

Scale	1:200	ON ORIGINAL PLAN
DRAWN	AB	DATE: 14/12/23
DESIGNED	CAW	Ph No:
BY :		DATE :
SIGNATURE :		DATE :
CHECKED ON BEHALF OF HN CONSULTING ENGINEERS		
BY :	JSM	Ph No:
SIGNATURE :		DATE :

HN Drawing Number	325WS - C.02	Revision	0
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