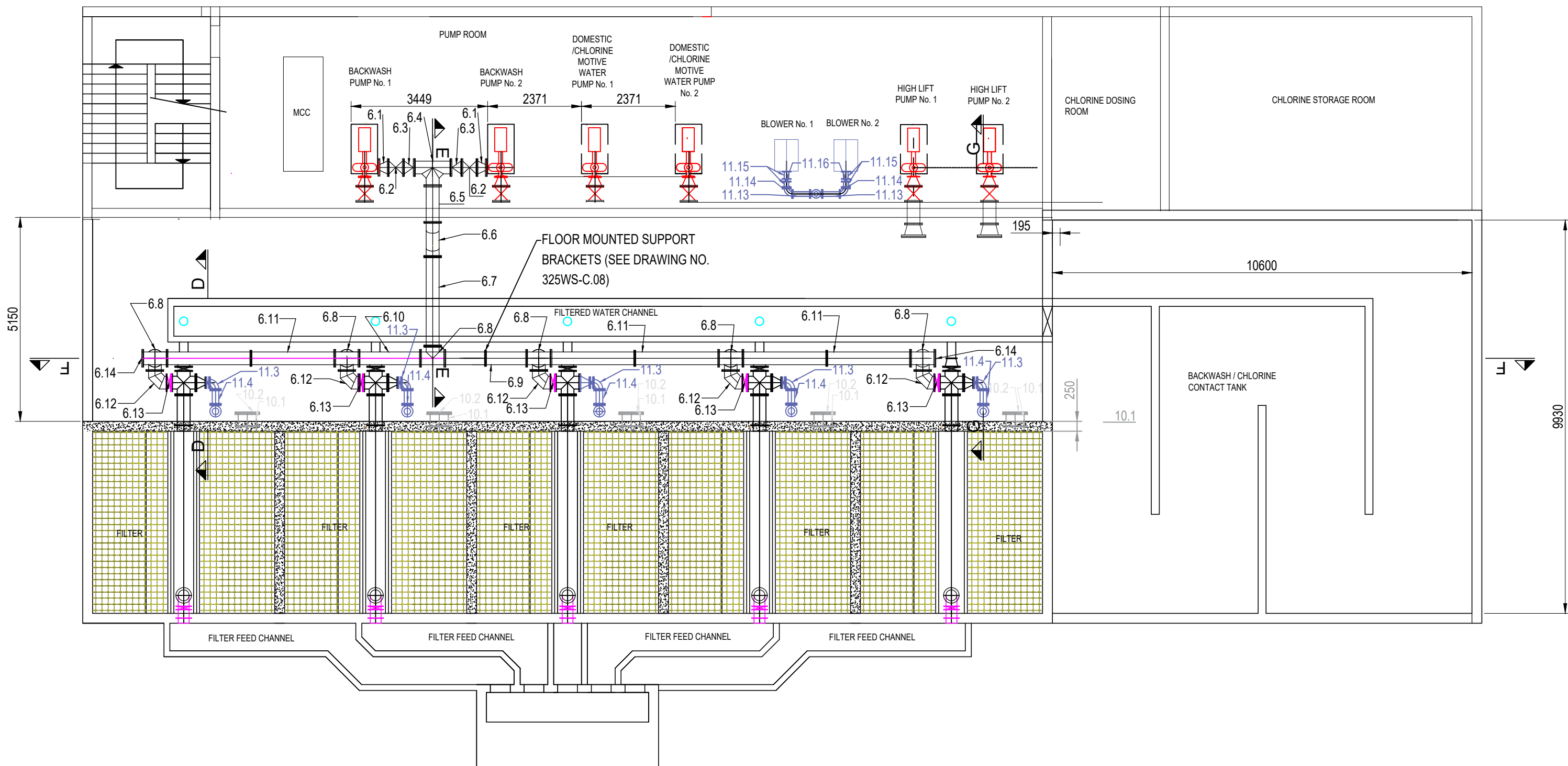
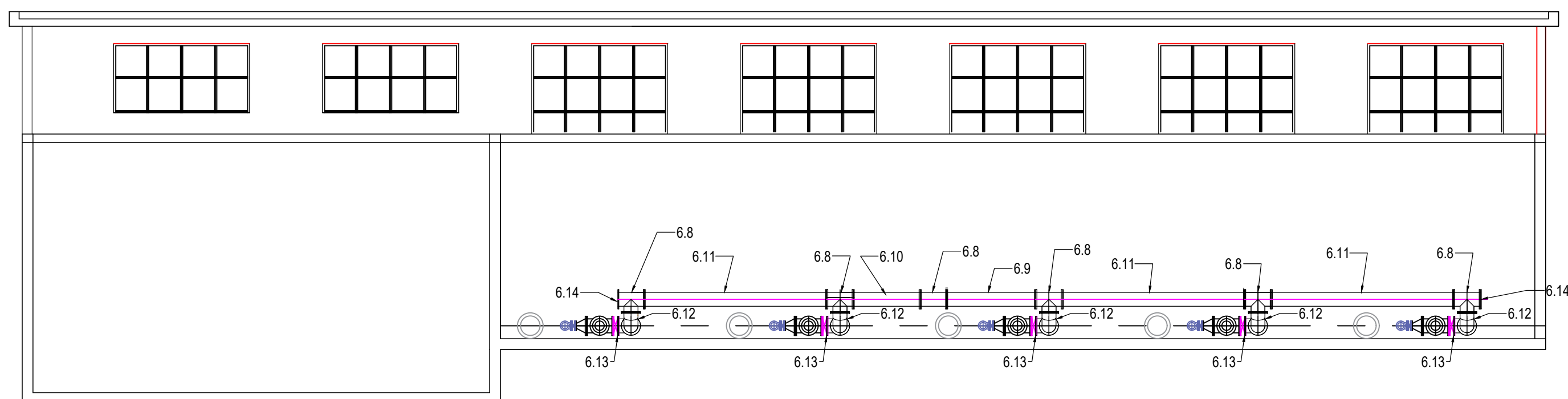




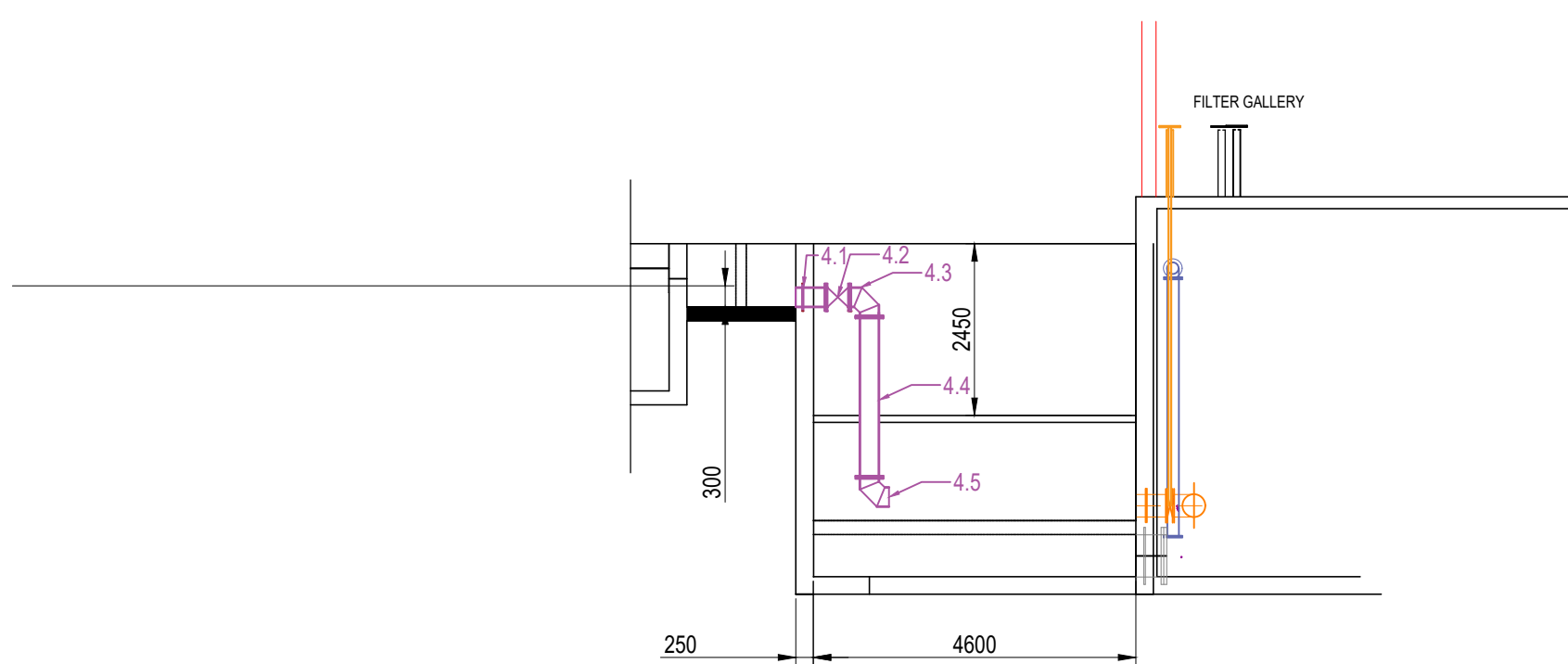
PLAN VIEW 1 OF TREATMENT WORKS BUILDING PIPEWORK

SCALE 1:100



SECTION F-F (VIEW 1)

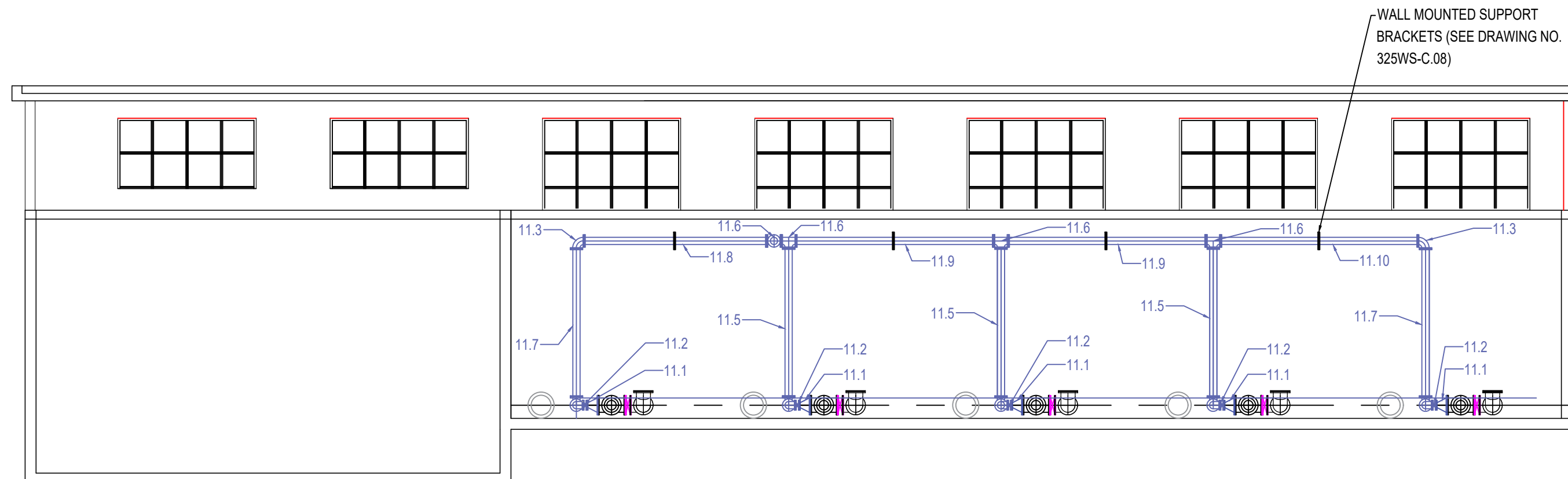
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SECTION C-C

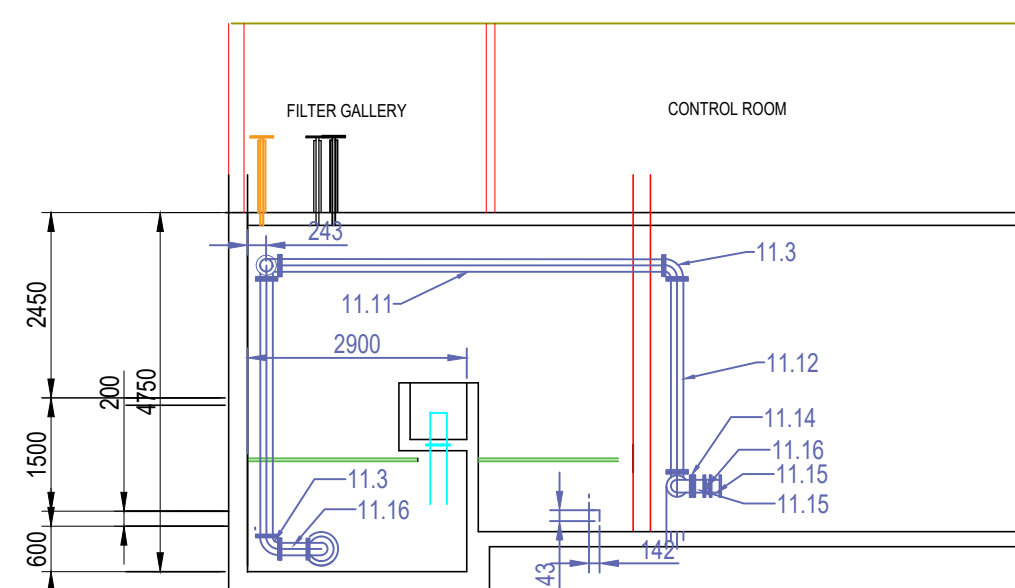
SCALE 1:100

FILTER FEED PIPEWORK (SECTION C-C)			
ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
4.1	250mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 100mm FROM PLAIN END, LENGTH = 430mm F/F	5	
4.2	250mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	5	
4.3	250mm Ø MS 90 DEG FLANGED BEND	5	
4.4	250mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2280mm F/F	5	
4.5	250mm Ø MS 90 DEG, ONE END FLANGED, ONE END PLAIN	5	



SECTION F-F (VIEW 2)

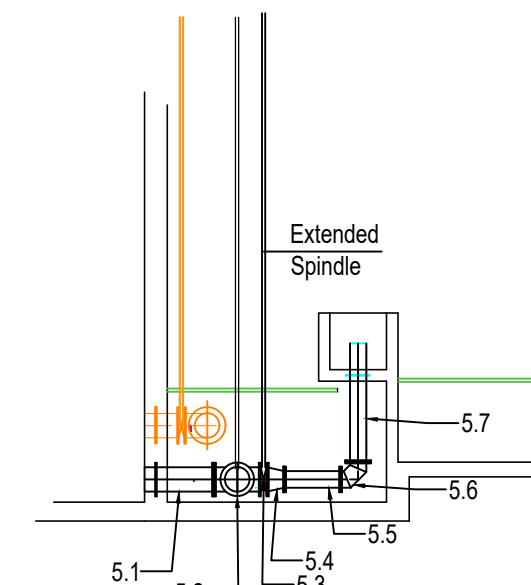
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SECTION G-G

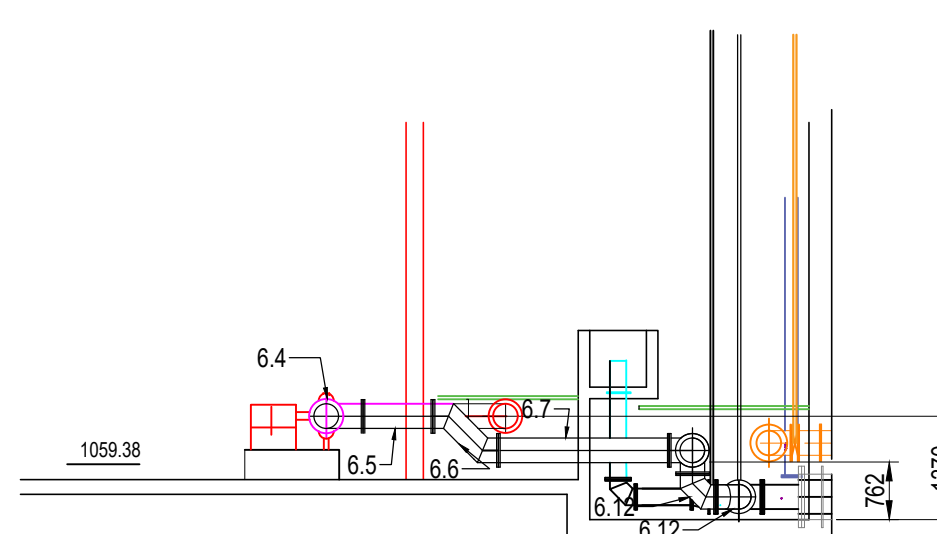
SCALE 1:100

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
BACKWASH DELIVERY PIPEWORK (SEE PLAN VIEW 1, SECTION E-E AND SECTION F-F VIEW 1)			
6.1	300 x 150mm Ø MS FLANGED CONCENTRIC REDUCER	2	
6.2	300mm Ø CLASS 16 FLANGED RESILIENT SEAL GATE VALVE (AVK 43/60 OR SIMILAR APPROVED) WITH NON-RISING SPINDLE	2	
6.3	300mm Ø FLANGED NON-RETURN VALVE (AVK SERIES 4/1 OR SIMILAR APPROVED)	2	
6.4	300mm Ø MS FLANGED SEGMENTED EQUAL TEE	1	
6.5	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 918mm F/F	1	
6.6	300mm Ø MS FLANGED S-PIECE	1	
6.7	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2256mm F/F	1	
6.8	300mm Ø MS FLANGED EQUAL TEE	6	
6.9	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2062mm F/F	1	
6.10	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 1548mm F/F	1	
6.11	300mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4230mm F/F	3	
6.12	300mm Ø MS 90 DEG FLANGED BEND	10	
6.13	300mm Ø BUTTERFLY VALVE (WAFER TYPE), VALVES TO BE SUPPLIED WITH 5500mm LONG EXTENDED SPINDLES AND PEDESTALS	5	
6.14	300mm Ø BLANK FLANGE	2	
FILTER PLENIARY FLOOR ACCESS MANHOLES (SEE PLAN VIEW 1)			
10.1	450mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 125mm FROM PLAIN END, LENGTH = 450mm F/F	5	
10.2	450mm Ø BLANK FLANGE	5	



SECTION D-D

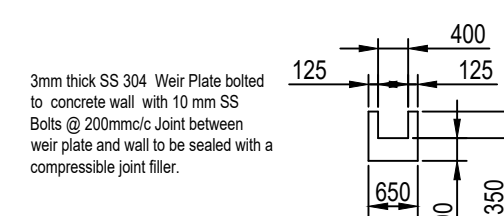
SCALE 1:100



SECTION E-E

SCALE 1:100

FILTERED WATER OUTLET PIPEWORK (SECTION D-D)			
ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
5.1	300mm Ø MS STRAIGHT PIPE FLANGED ONE END, PLAIN ONE END WITH PUDDLE FLANGE WELDED APPROX. 139mm FROM PLAIN END, LENGTH = 916mm F/F	5	
5.2	300mm Ø CROSS PIECE FLANGED	5	
5.3	300mm Ø BUTTERFLY VALVE (WAFER TYPE), VALVES TO BE SUPPLIED WITH 5500mm LONG EXTENDED SPINDLES AND PEDESTALS	5	
5.4	300 x 200mm Ø MS FLANGED CONCENTRIC REDUCER	5	
5.5	200mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 736mm F/F	5	
5.6	200mm Ø MS 90 DEG, FLANGED BEND	5	
5.7	200mm Ø MS STRAIGHT PIPE LENGTH, FLANGED ONE END, PLAIN ONE END, WITH PUDDLE FLANGE WELDED APPROX. 421mm FROM PLAIN END, LENGTH = 1565mm F/F	5	

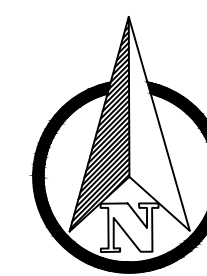


650 WEIR PLATE (5 OFF)

SCALE 1:100

ITEM	DESCRIPTION	QUANTITY	DIMENSIONS
BACKWASH AIR PIPEWORK (SEE PLAN VIEW 1, SECTION F-F VIEW 2 AND SECTION G-G)			
11.1	300 x 150mm Ø MS FLANGED CONCENTRIC REDUCER	5	
11.2	150mm Ø BUTTERFLY VALVE (WAFER TYPE), VALVES TO BE SUPPLIED WITH 4600mm LONG EXTENDED SPINDLES AND PEDESTALS	5	
11.3	150mm Ø MS 90 DEG FLANGED BEND	15	
11.4	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 368mm F/F	5	
11.5	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 3388mm F/F	3	
11.6	150mm Ø MS FLANGED EQUAL TEE	4	
11.7	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 3373mm F/F	2	
11.8	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4166mm F/F	1	
11.9	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4511mm F/F	2	
11.10	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 4504mm F/F	1	
11.11	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 5080mm F/F	1	
11.12	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 2548mm F/F	1	
11.13	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 446mm F/F	2	
11.14	150mm Ø MS NON-RETURN VALVE (WAFER TYPE)	2	
11.15	150mm Ø MS STRAIGHT PIPE LENGTH, FLANGED BOTH ENDS, LENGTH = 150mm F/F	4	
11.16	150mm Ø BUTTERFLY VALVE, WITH NON-RISING SPINDLE	2	

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REFERENCE DRAWINGS

Issued For Information	JSM	31/10/23	A
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NKANGALA
DISTRICT
MUNICIPALITY

Project Title

WESTERN HIGHVELD WATER TREATMENT WORKS

Drawing Title

WTW PIPEWORK DETAILS - PLAN VIEW 1

Scale 1:200 ON ORIGINAL PLAN

DRAWN BY : AB DATE: 31/10/23

DESIGNED BY : CAW Ph No: SIGNATURE : DATE:

CHECKED ON BEHALF OF HN CONSULTING ENGINEERS BY : JSM Ph No: SIGNATURE : DATE:

HN Drawing Number 325WS - C.03 Revision A

FOR INFORMATION