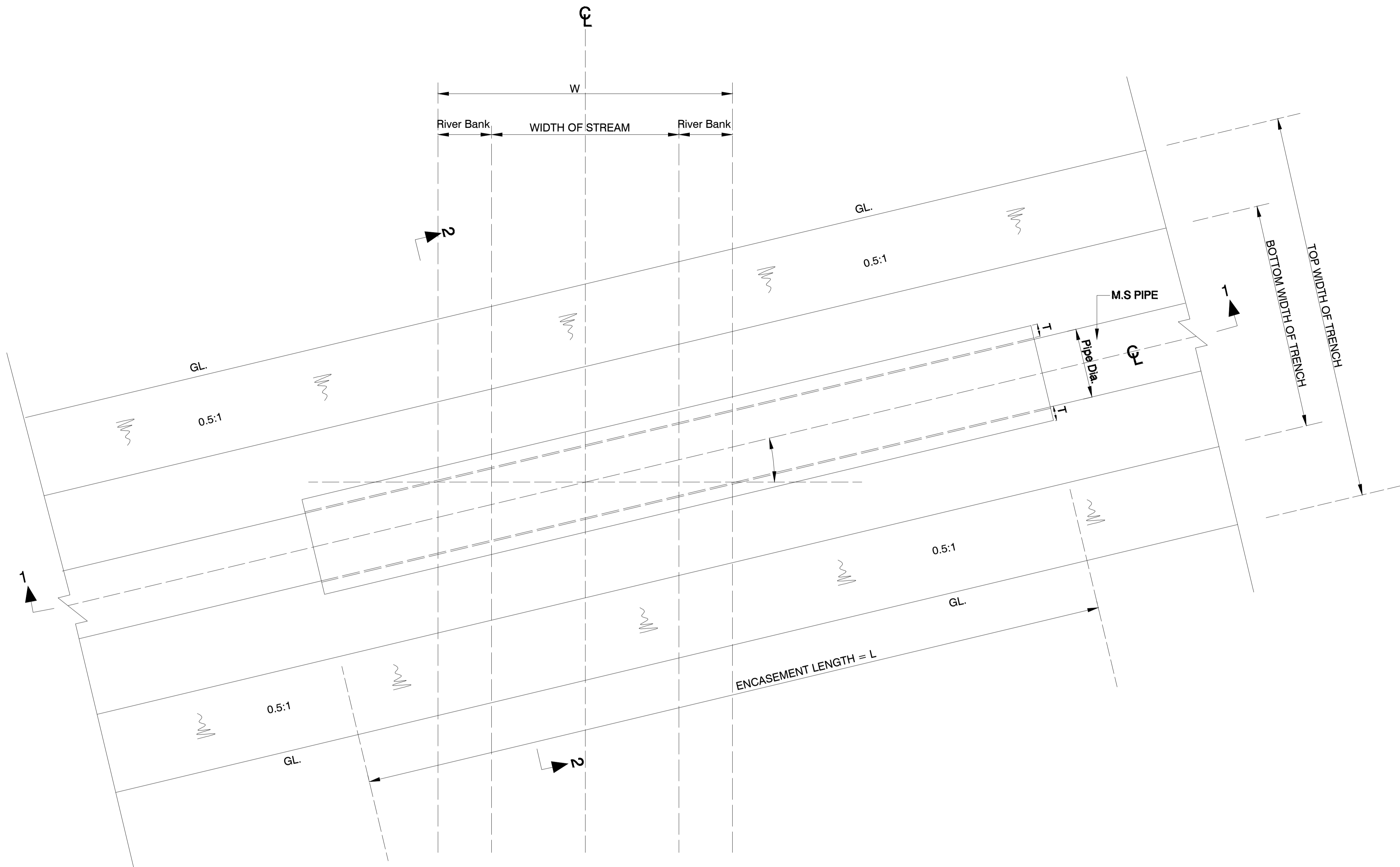


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
 2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
 3. THE GRADE OF CONCRETE IS C35 EXCEPT LEAN CONCRETE WHICH IS C20.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm
 5. CLEAR COVER IS 30mm.
 6. DEVELOPMENT LENGTH (Ld) = 43 x DIAMETER OF BAR.
 7. ENCASEMENT OF CONCRETE SHALL BE DONE AFTER COMPLETION OF INSITU TESTS ON STEEL PIPE LINE.
 8. PROVIDE SUITABLE SPIDERS/BRACINGS INTERNALLY TO ENSURE THAT THERE ARE NO DEFORMATIONS IN THE PIPE DURING CONCRETING ENSURE COMPACTION OF CONCRETE BY VIBRATOR DOES NOT DEFORM STEEL PIPE
 9. THE CONCRETE ENCASEMENT IS DONE SLOW AND IN SHALLOW LIFTS TO REDUCE THE EFFECT OF BUOYANCY. THE TIME INTERVAL BETWEEN TWO LIFTS IS SUCH THAT THE NEXT LIFT IS PLACED WHEN PREVIOUS LIFT IS SET RECOMMENDED 300mm LIFTS FROM INVERT TO CENTRE LINE OF PIPE, AND 500mm ABOVE THE CENTRE LINE.
 10. EARTH BACKFILLING SHALL BE DONE IN LAYERS NOT EXCEEDING 300mm. EACH LAYER SHALL BE CONSOLIDATED BY WATERING AND RAMMING. CARE BEING TAKEN TO PREVENT DAMAGE TO PIPE/CONCRETE.
 11. THE RCC ENCASEMENT IS DESIGNED FOR EXTERNAL LOADS DUE TO BACKFILL AND VEHICLE LOADING.
 12. PIPES ARE PLACED IN POSITION ON TEMPORARY STRUCTURAL STEEL SUPPORTS AND WELDED INTO LINE. SUPPORTS PREVENTS DISPLACEMENT OR FLOATATION OF PIPE DURING CONSTRUCTION.




PLAN

S.NO.	Pipe Internal Dia.(ID)	Pipe Thickness	Pipe Outer Dia	Vehicle Load	Depth of fill (Df)	Encasement Thickness (T)	Hoop Reinforcement (Both faces)	Longitudinal Reinforcement (Both faces)	Encasement Length (L)
	mm	mm	mm		mm	mm			m
1	1300	8	1316	Single lane LL1	> = 1200	500	#16@150c/c	#12@150c/c	12.0
2	1200	8	1216	Single lane LL1	> = 1200	500	#16@170c/c	#12@150c/c	12.0
3	1100	8	1116	Single lane LL1	> = 1200	450	#16@170c/c	#12@160c/c	12.0
4	1000	8	1016	Single lane LL1	> = 1200	450	#12@100c/c	#12@160c/c	12.0

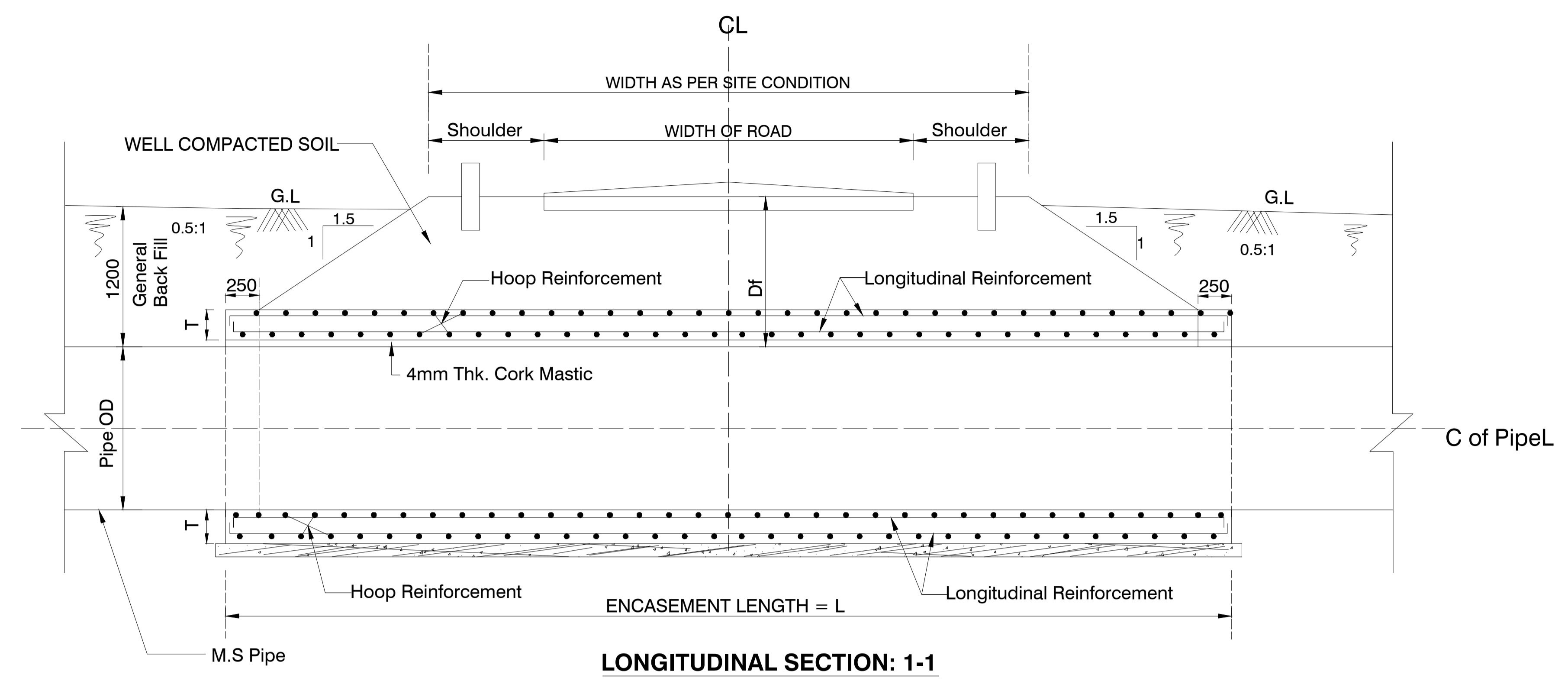
Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATION SCHEME**

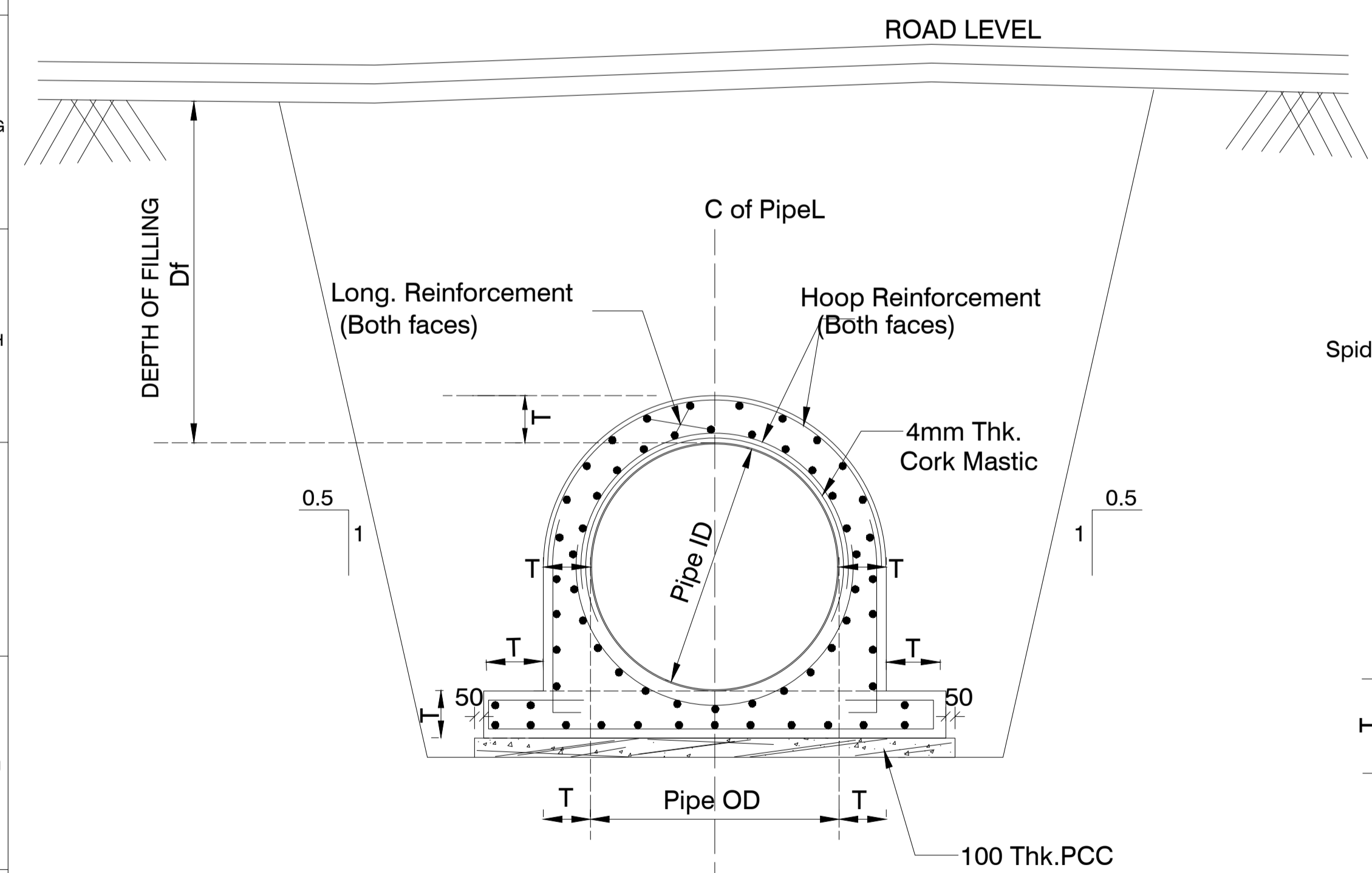
Title : **RCC ENCASEMENT FOR STEEL PIPES
AT STREAM CROSSING (1000 TO 1300mm DIA.)
PLAN**

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

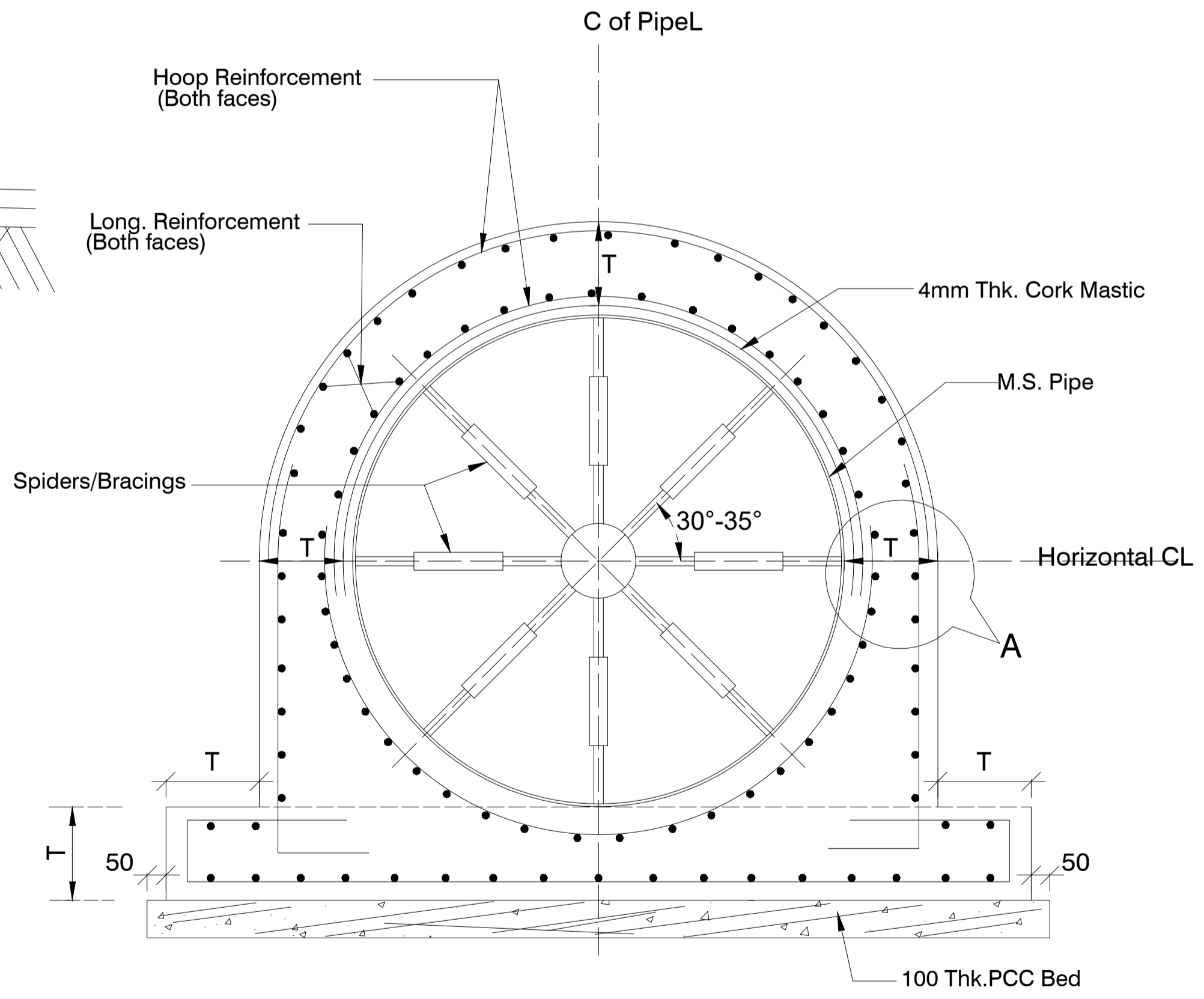
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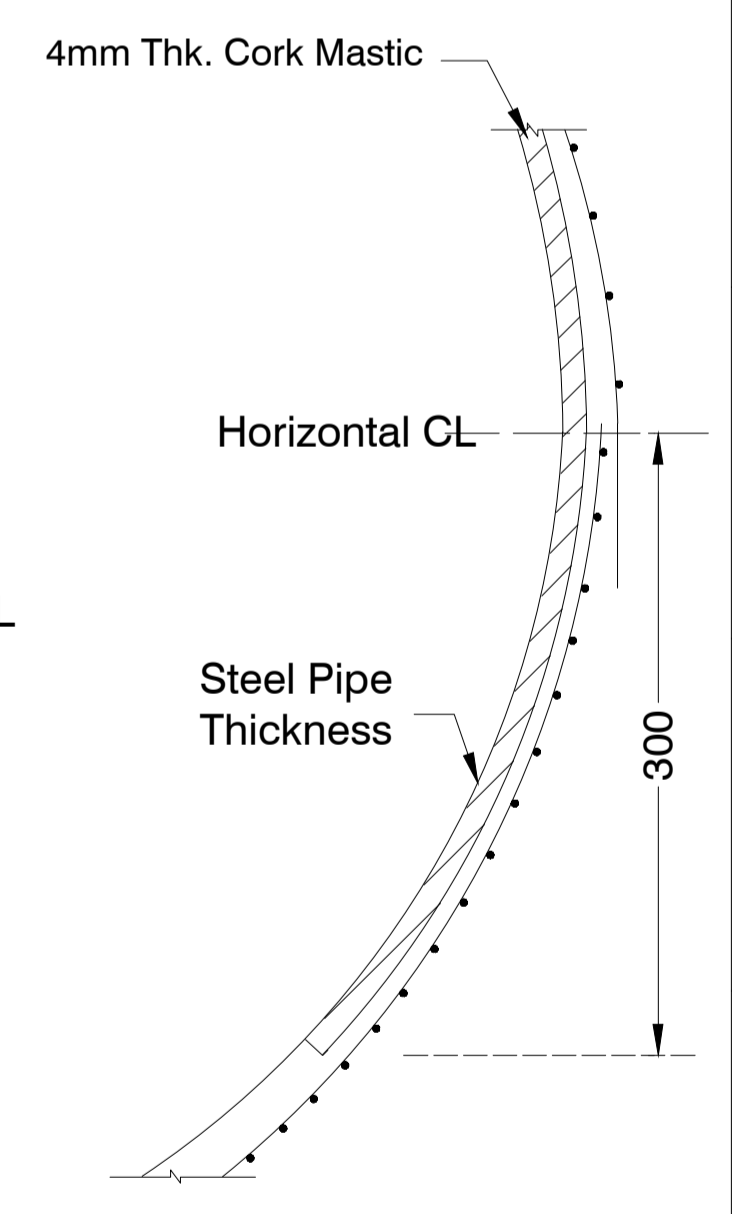
LONGITUDINAL SECTION: 1-1



CROSS SECTION 2-2



TYPICAL DETAILS SPIDERS/BRACINGS




DETAIL -A' (CORK MASTIC)

Client : REPUBLIC OF UGANDA
 MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : RCC ENCASEMENT FOR STEEL PIPES
 AT ROAD CROSSING (1000 TO 1300mm DIA.)
 SECTIONS

Consultants :


aarvee associates
 architects engineers consultants pvt.ltd. &
 Ravula Residency, Singar Colony Main Rd., Hyderabad-82, India
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 e-mail: irrigation@aarvee.net; web:www.aarvee.net

DETAILS OF ROAD CROSSINGS, CHAINAGE & LENGTH OF ENCASEMENT FOR STEEL PIPES

S. No.	Pipe ID	Pipe Main Name	Pipe Internal Dia. (m)	Chainage	Road width (m)	Depth of filling (Df) (m)	Length of encasement of pipe (L) (m)
1	1	M1	1300	0+153	7.000	1.200	12.50
2	1	M1	1300	2+900	7.000	1.200	12.50
3	43	M1	1100	5+160	7.000	1.200	12.50
4	113	M1	1000	6+268	7.000	1.200	12.50
5	155	M1	1000	6+386	7.000	1.200	12.50
6	155	M1	1000	6+600	7.000	1.200	12.50
7	155	M1	1000	6+939	7.000	1.200	12.50

Scale Horizontal 1 : 1000
Vertical 1 : 100

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMEN

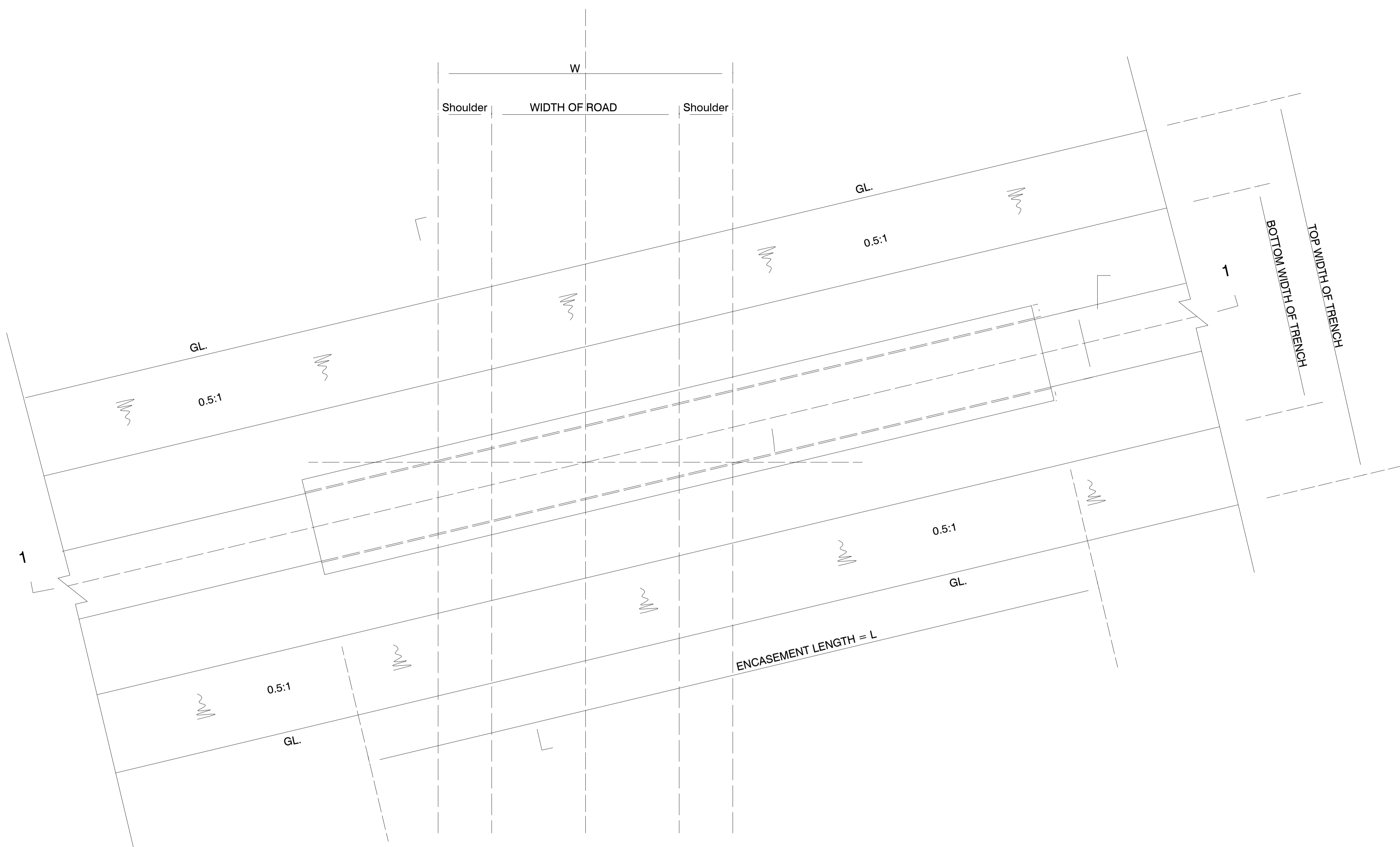
Project KABUYANDA IRRIGATON SCHEME

Title CC ENCASEMENT FOR STEEL PIPES AT ROAD
CROSSING (1000 TO 1300mm DIA.)
LIST OF ROAD CROSSINGS

Consultants

 aarvee associates
 aarvee associates consultants pvt. ltd.
 2nd Floor, Sreejaya Colony Main Rd., Hyderabad-50, India
 Tel: +91-40-2372833, Fax: +91-40-2372677
 e-mail: irrigator@aarvee.net, web: www.aarvee.net

- NOTES:**
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 3. THE GRADE OF CONCRETE IS C35 EXCEPT LEAN CONCRETE WHICH IS C20.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm
 5. CLEAR COVER IS 30mm.
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 7. ENCASEMENT OF CONCRETE SHALL BE DONE AFTER COMPLETION OF INSITU TESTS ON STEEL PIPE LINE.
 8. PROVIDE SUITABLE SPIDERS/BRACINGS INTERNALLY TO ENSURE THAT THERE ARE NO DEFORMATIONS IN THE PIPE DURING CONCRETING ENSURE COMPACTION OF CONCRETE BY VIBRATOR DOES NOT DEFORM STEEL PIPE
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PLAN

S.NO.	Pipe Internal Dia.(ID)	Pipe Thickness	Pipe Outer Dia	Vehicle Load	Depth of fill (Df)	Encasement Thickness (T)	Hoop Reinforcement (Both faces)	Longitudinal Reinforcement (Both faces)	Encasement Length (L)
	mm	mm	mm		mm	mm			m
1	1300	8	1316	Single lane LL1	> = 1200	500	#16@150c/c	#12@150c/c	12.0
2	1200	8	1216	Single lane LL1	> = 1200	500	#16@170c/c	#12@150c/c	12.0
3	1100	8	1116	Single lane LL1	> = 1200	450	#16@170c/c	#12@160c/c	12.0
4	1000	8	1016	Single lane LL1	> = 1200	450	#12@100c/c	#12@160c/c	12.0

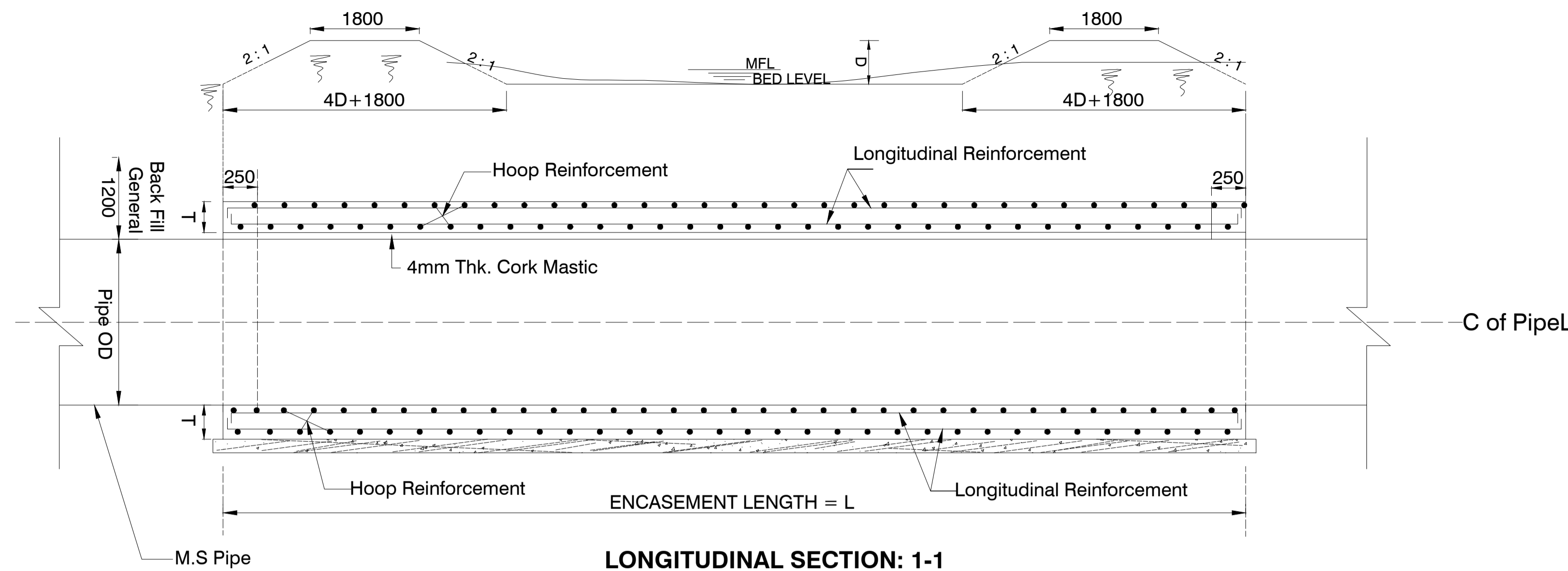
Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATION SCHEME**

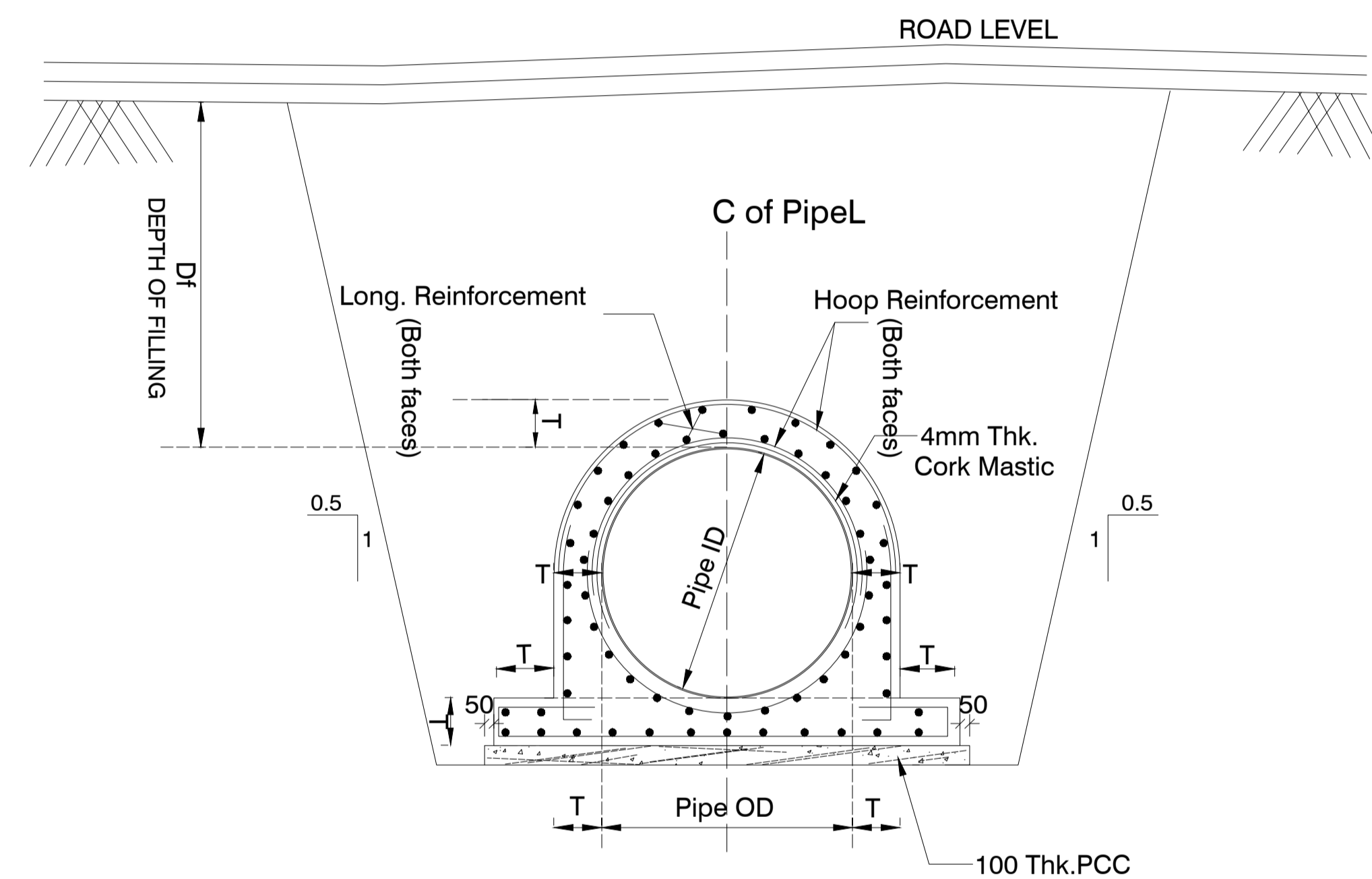
Title : **RCC ENCASEMENT FOR STEEL PIPES
AT STREAM CROSSING (1000 TO 1300mm DIA.)
PLAN**

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd. &
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
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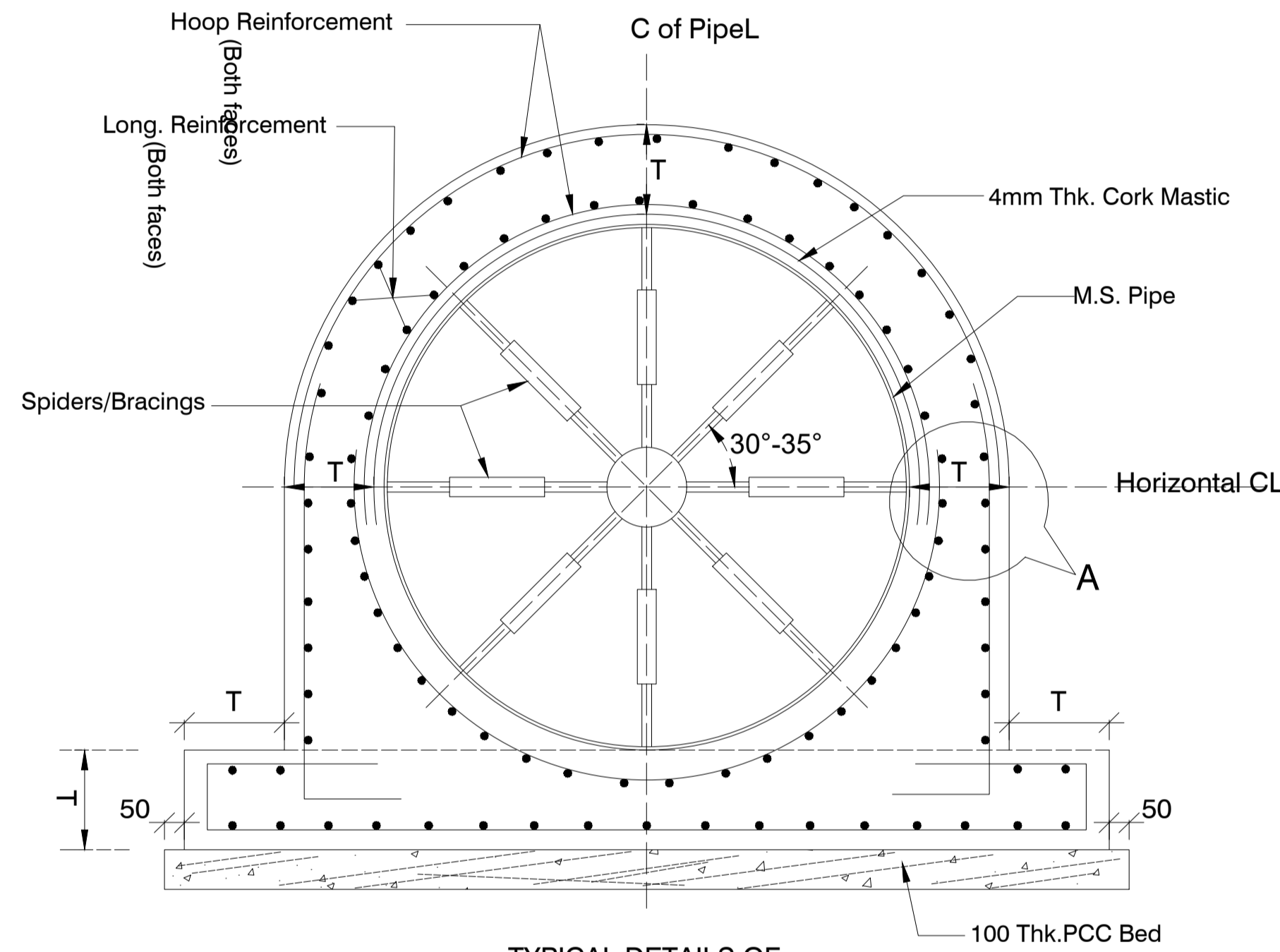
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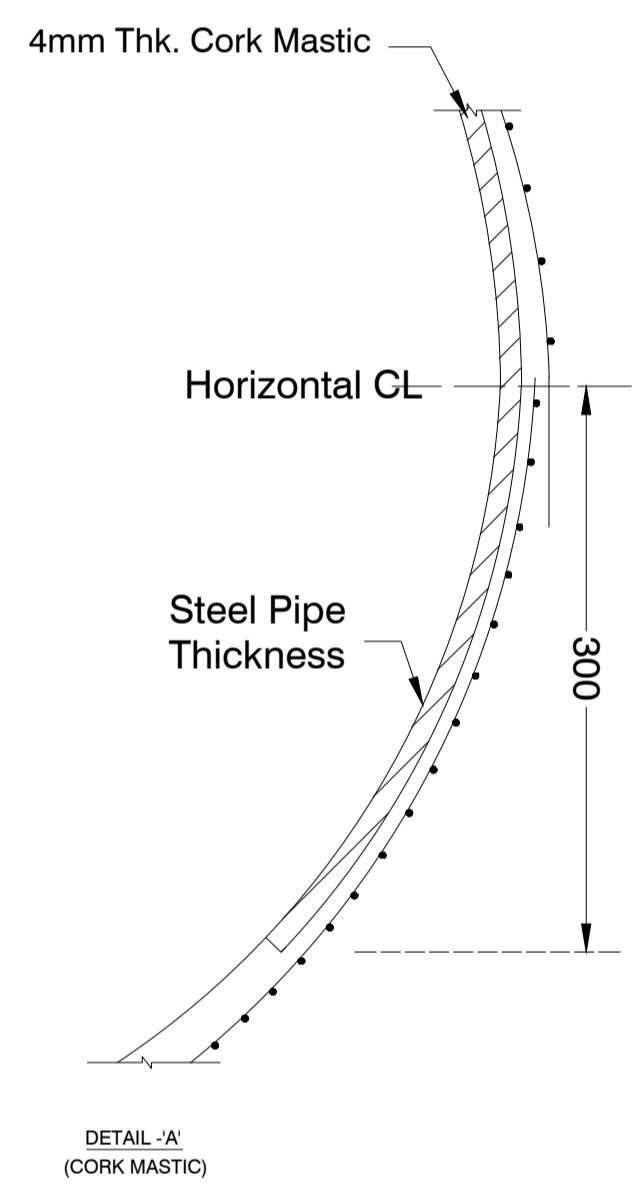
LONGITUDINAL SECTION: 1-1



CROSS SECTION 2-2



TYPICAL DETAILS OF SPIDERS/BRACINGS



STREAM CROSSINGS REINFORCEMENT

MS PIPE (1000 - 1300mm Dia.)										
S. No.	Chainage	Pipe Main Name	Dia of Pipe (Ø)	Pipe Thickness (1)	Stream Bed Level (2)	Pipe Invert Level (Provided) (3)	Catchment Area	Width in Skew $W = B / \cos(L)$	Hoop Reinforcement (Both faces)	Longitudinal Reinforcement (Both faces)
	m.		mm	mm	m	m	Sq.km	m		
1	4+910	M1	1100	8	+1295.783	+1294.756	52.780	153.298	#16@150c/c	#12@150c/c
DI PIPE (300 - 900mm Dia.)										
S. No.	Chainage	Pipe Main Name	Dia of Pipe (Ø)	Pipe Thickness (1)	Stream Bed Level (2)	Pipe Invert Level (Provided) (3)	Catchment Area	Width of Encasement	Hoop Reinforcement (Both faces)	Longitudinal Reinforcement (Both faces)
	m.		mm	mm	m	m	Sq.km	m		
1	7+737	M1	900	11.2	+1295.783	+1287.870	12.160	25.717	#12@150c/c	#10@120c/c
2	0+170	M2	700	9	+1295.783	+1294.699	52.8	171.76	#10@120c/c	#10@120c/c
3	10+100	M1	700	9	+1279.858	+1278.545	15.7	141.28	#10@120c/c	#10@120c/c
4	0+400	M2-S2	500	7	+1297.056	+1294.908	0.9	42.44	#10@150c/c	#10@150c/c
5	1+670	M1-S4	500	7	+1280.219	+1294.908	245.5	182.49	#10@150c/c	#10@150c/c
6	1+665	M1-S2	400	6.3	+1288.231	+1294.908	221.6	184.70	#10@150c/c	#10@120c/c
7	0+442	M1-T1	300	5.6	+1313.885	+1313.596	111.6	2883.21	#12@175c/c	#10@150c/c
8	0+925	M1-S2-T3	300	5.6	+1284.613	+1283.289	226.4	85.37	#12@175c/c	#10@150c/c
9	0+658	M1-S5-T3	300	5.6	+1273.896	+1283.289	14.8	15.99	#12@175c/c	#10@150c/c

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **RCC ENCASMENT FOR STEEL PIPES AT STREAM CROSSING (1000 TO 1300mm DIA.) SECTIONS**

Consultants : **aarvee associates**
 architects engineers consultants pvt.ltd.&
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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 e-mail: irrigation@aarvee.net; web:www.aarvee.net

Drg. No. AA/IRR/2238/KIS/SC/01 Sheet 2 of 3 Date 22-01-2022

LIST OF STREAM CROSSINGS

MS PIPE (1000 - 1300mm Dia.)

SI No.	Chainage	Pipe Main Name	Pipe Dia.	Pipe Thickness	Skew Angle	Stream Width	Catchment Area
			mm	mm	Deg.	m	Km ²
1	4+910	M1	1100	8.00	60.034	50.00	114.21

DI PIPE (300 - 900mm Dia.)

SI No.	Chainage	Pipe Main Name	Pipe Dia.	Pipe Thickness	Skew Angle	Stream Width	Catchment Area
			mm	mm	Deg.	m	Km ²
1	7+737	M1	900	11.20	78.829	5.00	12.16
2	0+170	M2	700	9.00	71.36	55.00	52.78
3	10+100	M1	700	9.00	83.948	15.00	15.74
4	0+400	M2-S2	500	7.00	76.411	10.00	0.89
5	1+670	M1-S4	500	7.00	68.157	68.00	245.52
6	1+665	M1-S2	400	6.30	71.735	58.00	221.59
7	0+442	M1-T1	300	5.60	89.648	20.00	111.58
8	0+925	M1-S2-T3	300	5.60	24.002	78.00	226.42
9	0+658	M1-S5-T3	300	5.60	71.816	5.00	14.76

Scale Horizontal 1 : 1000
Vertical 1 : 100

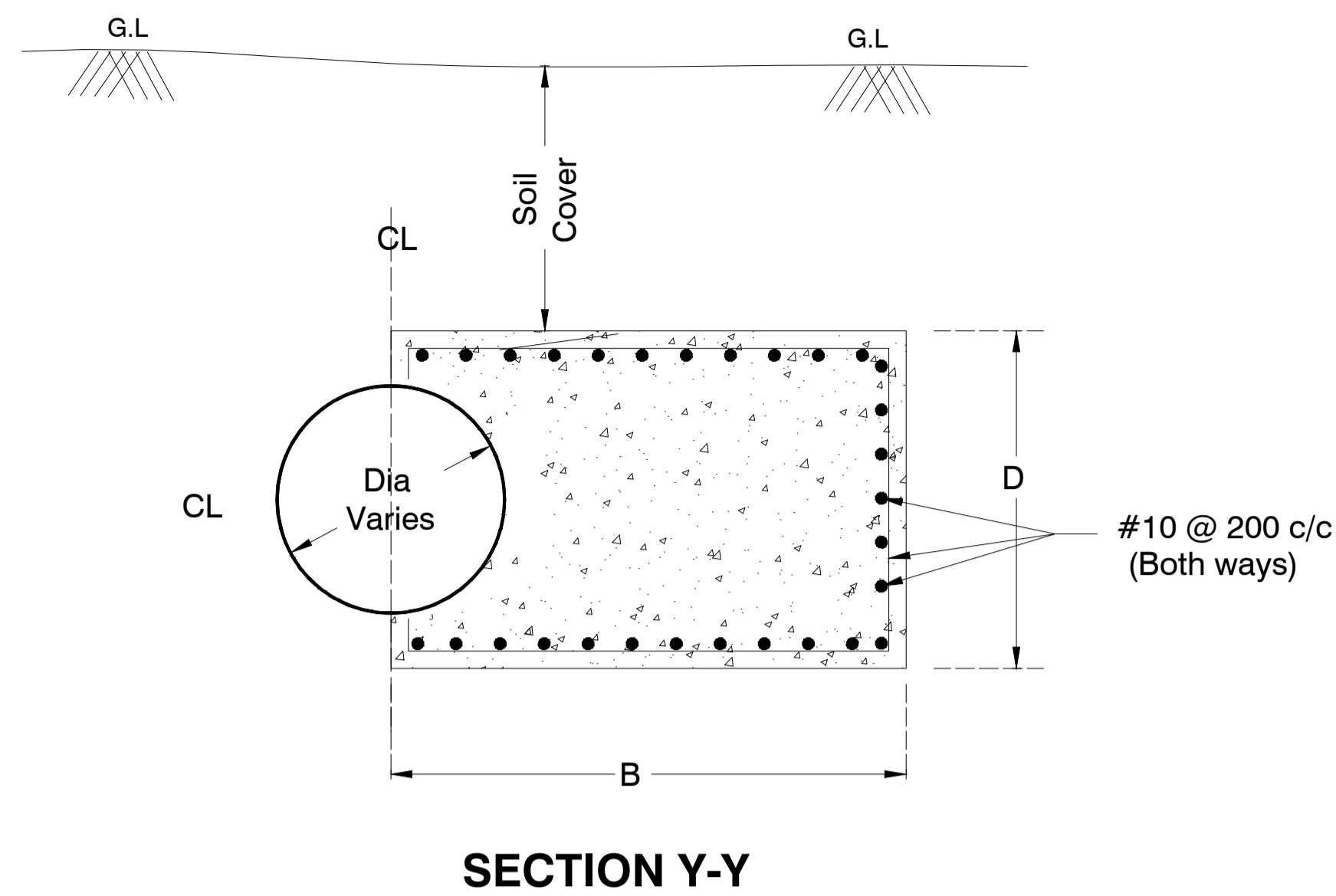
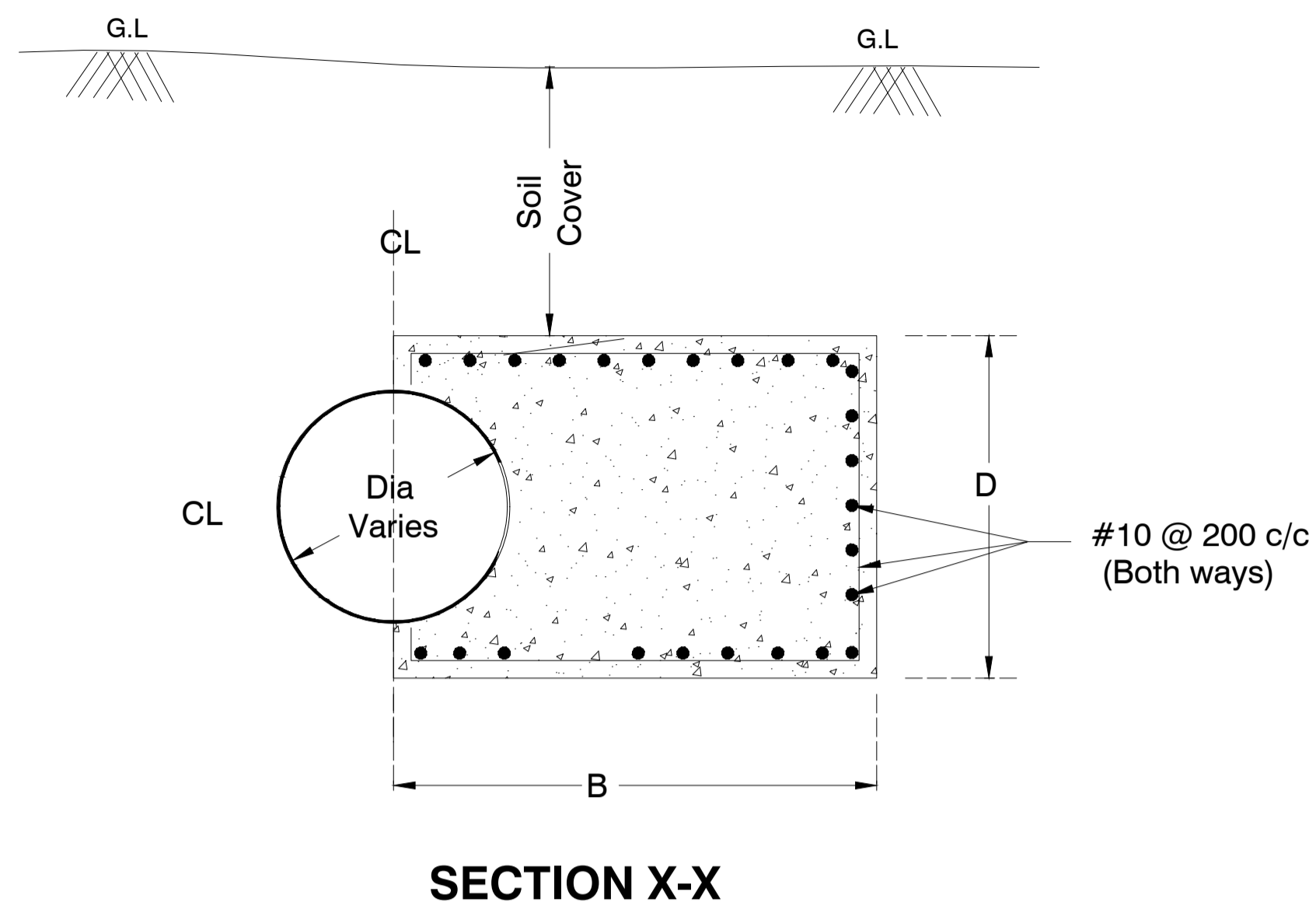
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project KABUYANDA IRRIGATION SCHEME

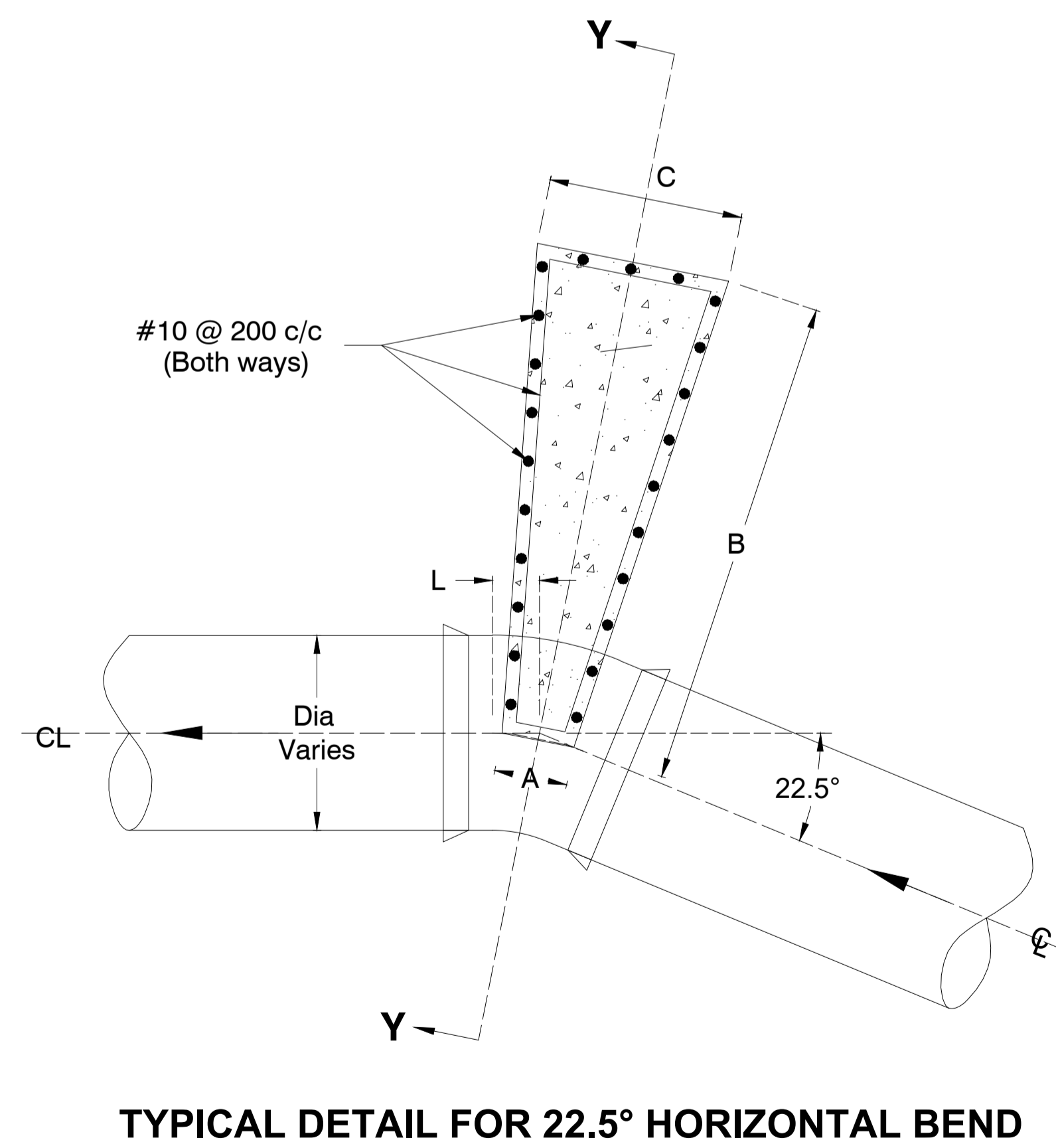
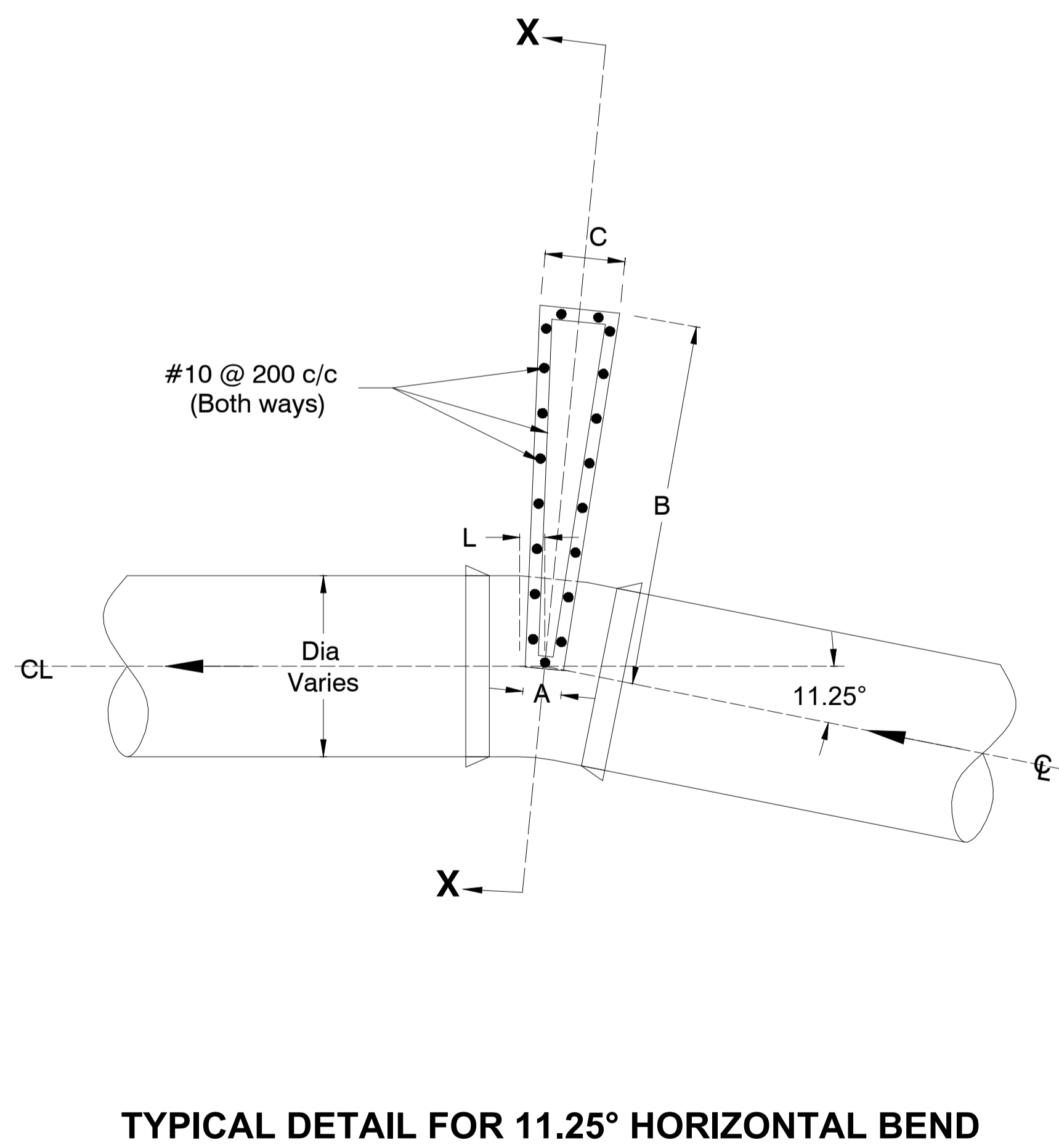
Title CC ENCASEMENT FOR STEEL PIPES AT STREAM
CROSSING (1000 TO 1300mm DIA.)

Consultants

aarvee associates
 architects engineers consultants pvt ltd &
 Raviwala Road, Shree Nagar, Coimbatore-641 002, India
 Tel: +91-46-2371933, Fax: +91-46-2371927
 e-mail: irrigation@aarvee.net, web: www.aarvee.net



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 2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
 3. THE GRADE OF CONCRETE IS C35.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.
 5. SAFE BEARING CAPACITY ON FOUNDATION SHOULD NOT EXCEED 100 KN/Sq.m.




Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

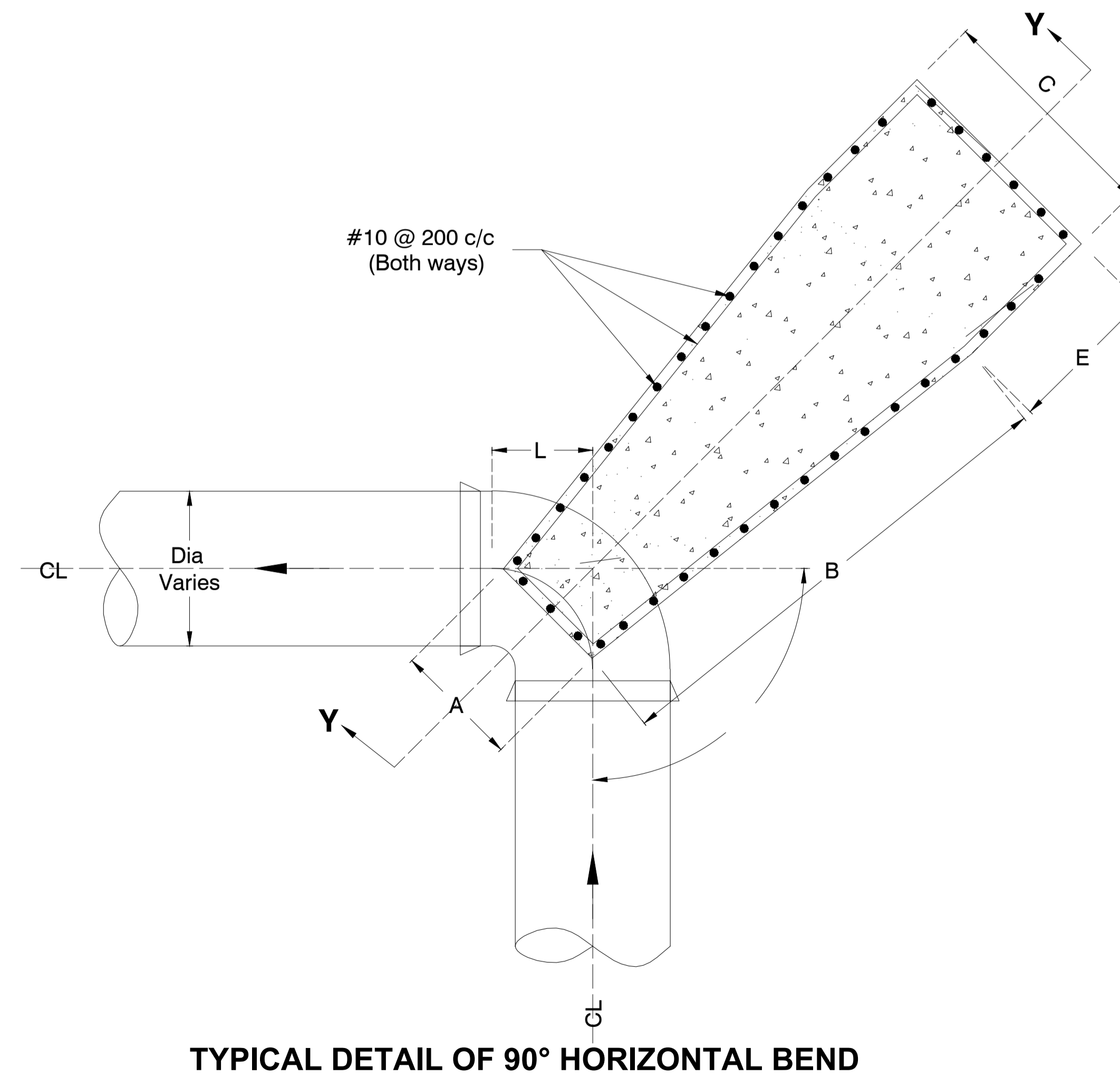
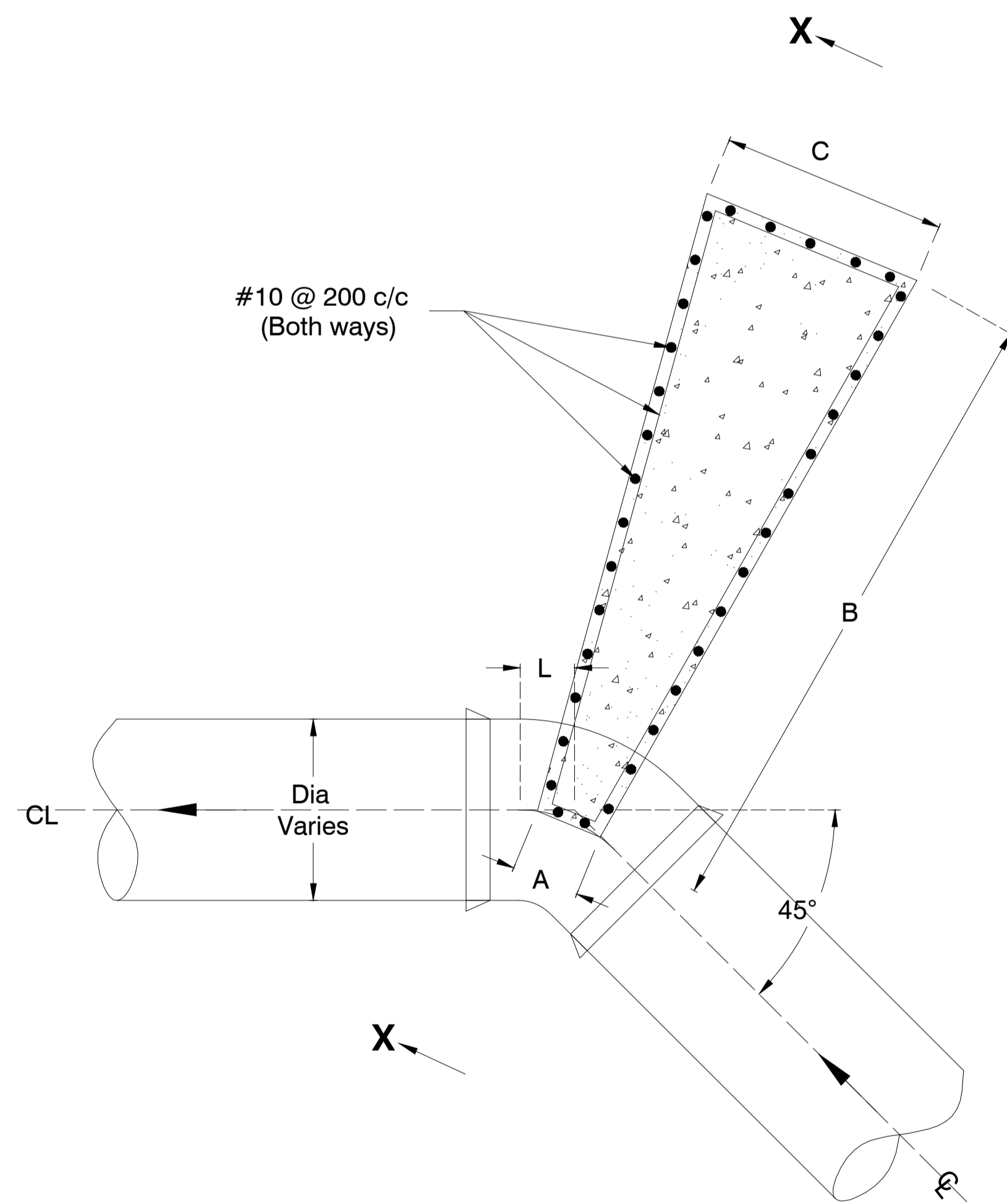
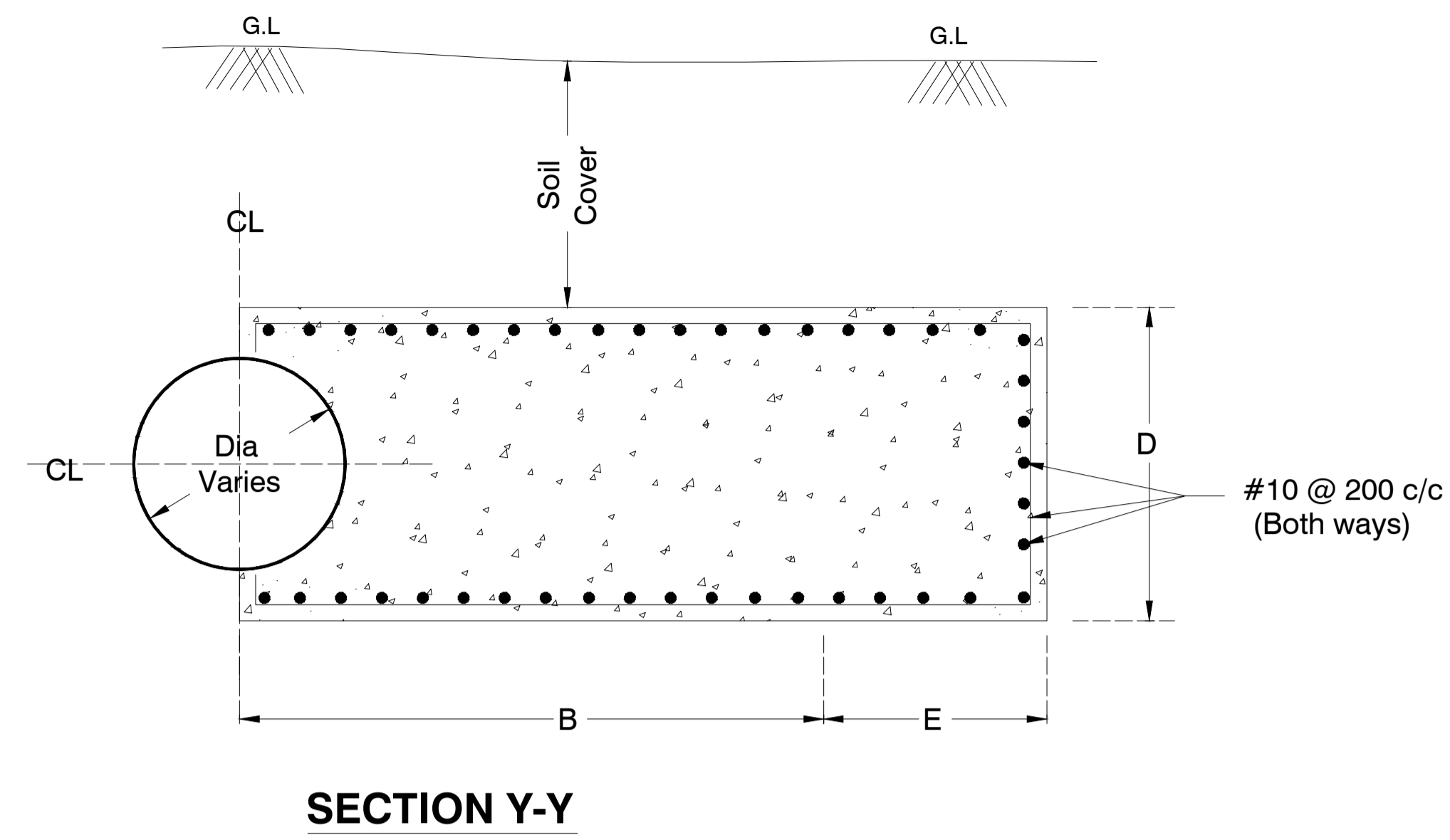
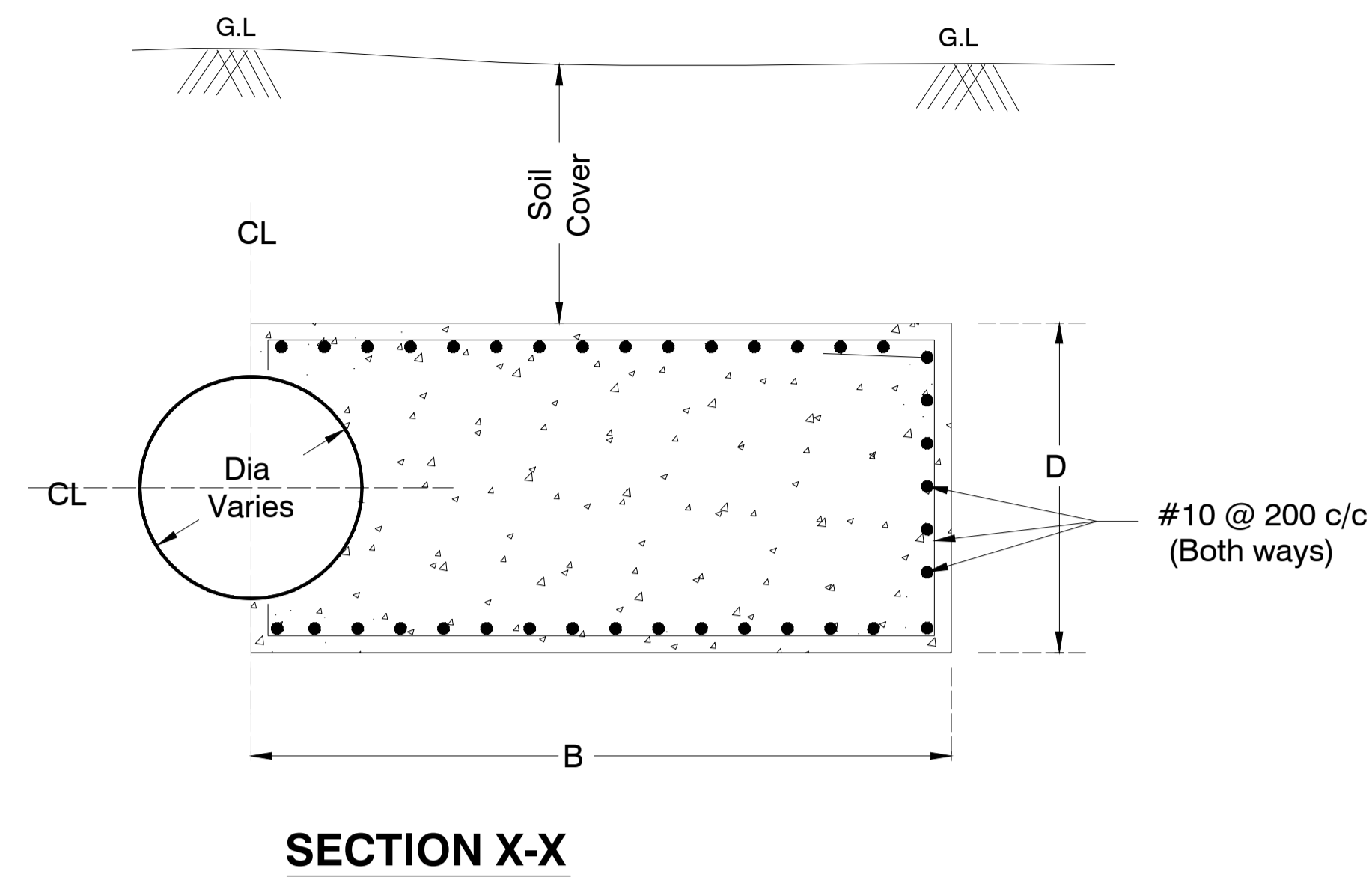
Title : TYPICAL THRUST BLOCK DETAILS AT
(300 TO 900mm Dia. DI PIPES)

Consultants :


aarvee associates
 architects engineers consultants pvt.ltd.&
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
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Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : TYPICAL THRUST BLOCK DETAILS AT
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Consultants :

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TYPICAL DIMENTIONS OF THRUST BLOCKS AT BENDS

S. No.	Pipe Dia.	Deflection Angle	Design Pressure	Thrust Block Dimensions						
	D			p	L	A	B	C	D	E
	mm			Mpa	m	m	m	m	m	m
1	800	11.25	0.40	0.110	0.170	2.100	0.400	1.421	-	
		22.5	0.45	0.370	0.550	2.300	1.500	1.421	-	
		45.00	0.55	0.195	0.300	2.400	1.000	1.421	-	
2	700	11.25	0.65	0.095	0.150	2.000	0.500	1.318	-	
3	600	11.25	0.65	0.085	0.130	2.700	0.500	1.215	-	
			0.85	0.085	0.130	2.800	0.500	1.215	-	
		22.50	0.85	0.150	0.250	2.500	1.000	1.215	-	
4	500	11.25	0.65	0.075	0.120	2.300	0.400	1.114	-	
			0.75	0.075	0.120	2.500	0.400	1.114	-	
			0.85	0.075	0.120	2.600	0.500	1.114	-	
		22.50	0.65	0.130	0.200	2.000	0.500	1.114	-	
			0.85	0.130	0.200	2.500	0.600	1.114	-	
		45.00	0.65	0.240	0.300	2.000	1.000	1.114	-	
0.85	0.240	0.300	2.500	1.200	1.114	-				
90.00	0.80	0.520	0.650	2.500	1.300	1.714	1.20			
5	450	11.25	0.85	0.070	0.130	1.700	0.500	0.863	-	
6	400	11.25	0.35	0.065	0.120	1.600	0.200	0.813	-	
			0.65	0.065	0.120	1.800	0.300	0.813	-	
			0.85	0.065	0.120	2.400	0.300	1.013	-	
		22.50	0.65	0.110	0.200	1.800	0.400	0.500	-	
45.00	0.35	0.195	0.250	1.500	0.500	1.013	-			
7	350	11.25	0.65	0.06	0.11	1.30	0.20	0.96	-	
		22.50	0.65	0.095	0.170	1.300	0.400	0.962	-	
		45.00	0.65	0.175	0.220	1.500	0.700	0.962	-	
		90.00	0.65	0.37	0.47	2.00	0.60	1.562	1.00	
8	300	11.25	0.55	0.055	0.100	1.800	0.200	0.611	-	
			0.65	0.055	0.100	1.800	0.200	0.611	-	
			0.70	0.055	0.100	1.800	0.300	0.611	-	
		22.50	0.50	0.095	0.170	1.000	0.300	0.611	-	
			0.65	0.085	0.150	1.200	0.400	0.611	-	
			0.75	0.085	0.150	1.200	0.500	0.611	-	
		45.00	0.70	0.175	0.220	2.500	0.600	0.711	-	
		90	0.45	0.320	0.400	1.800	0.700	0.711	0.500	
			0.65	0.320	0.400	2.500	1.000	0.711	0.500	
0.75	0.320		0.400	2.500	1.100	0.711	0.500			

NOTES:

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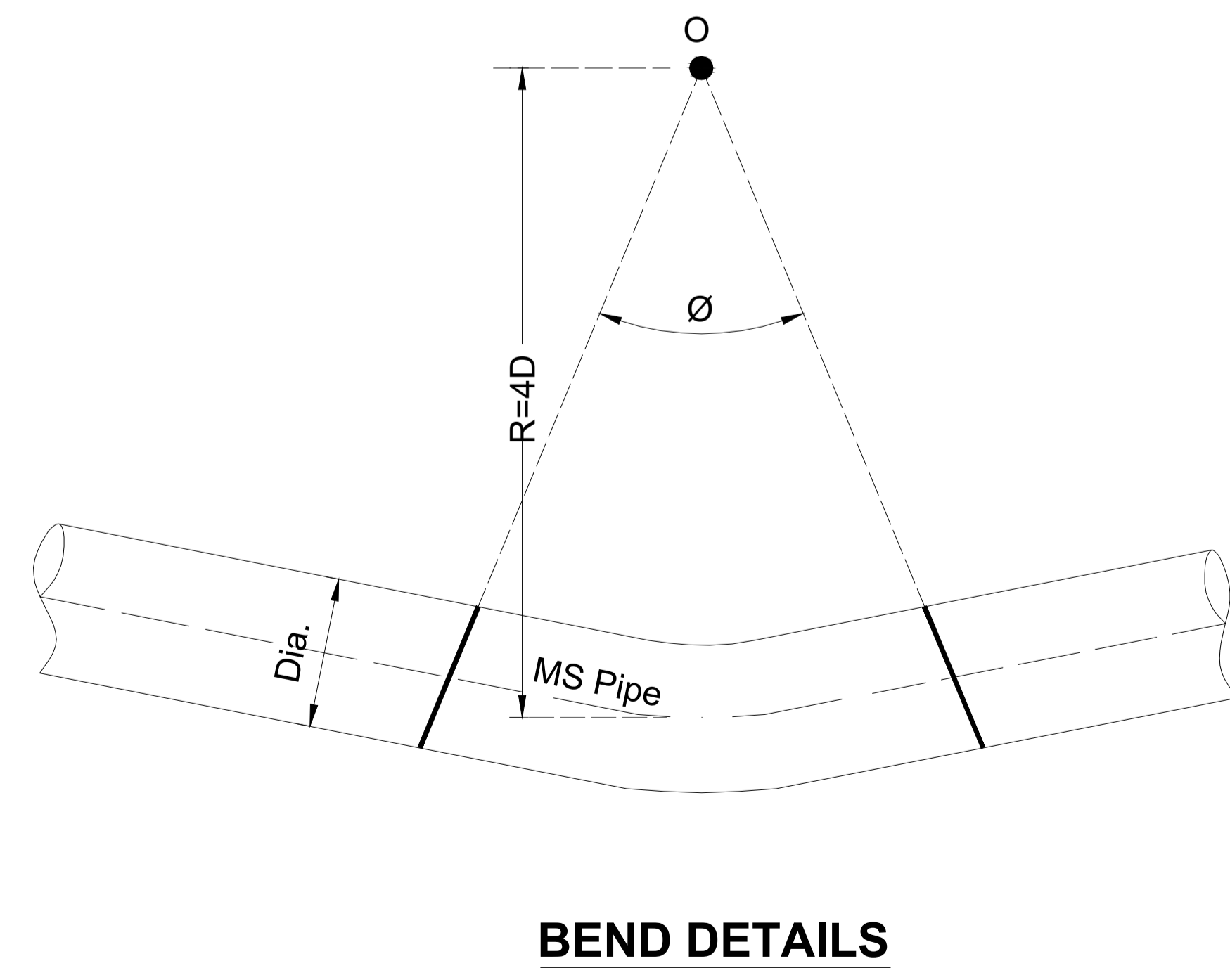
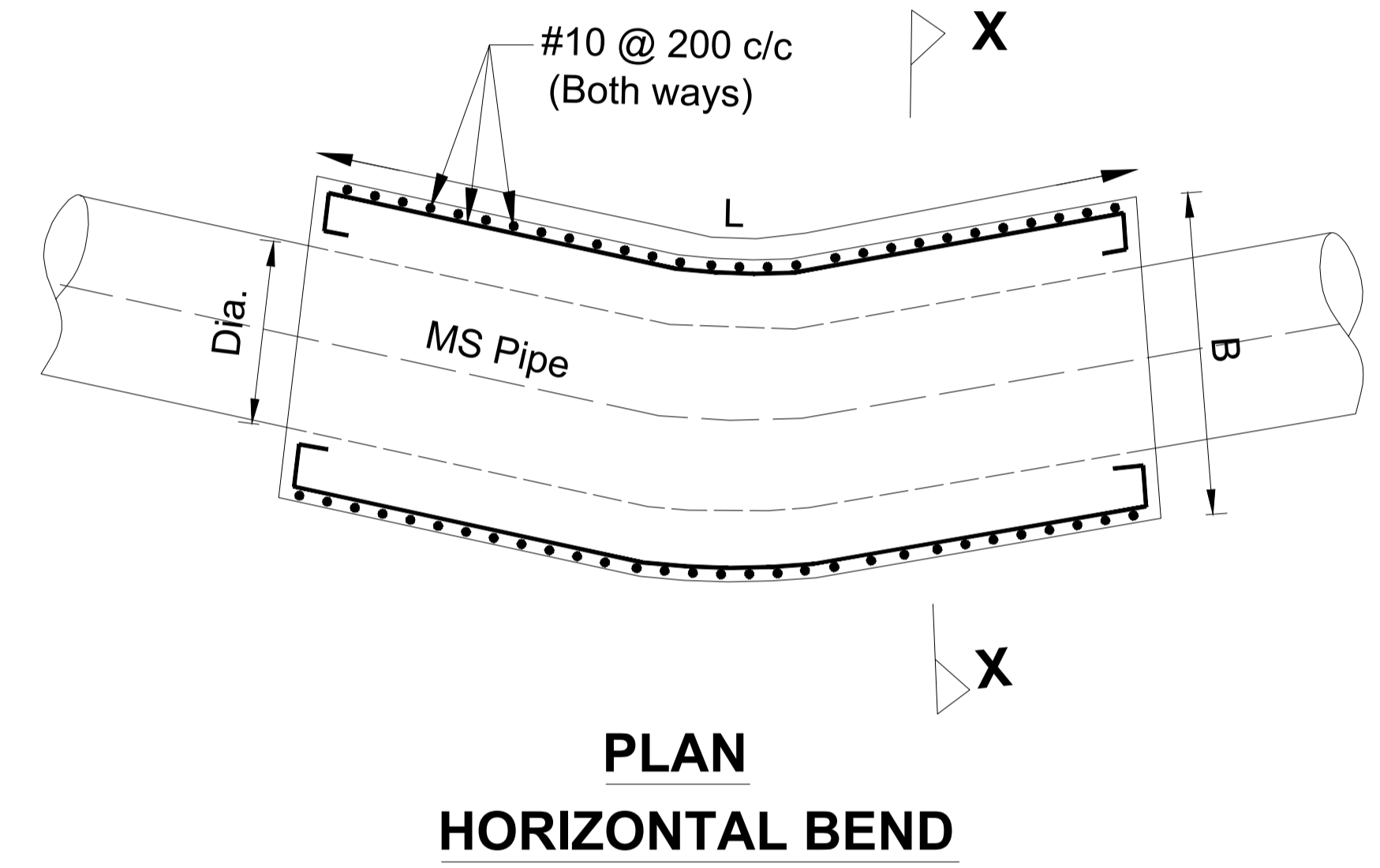
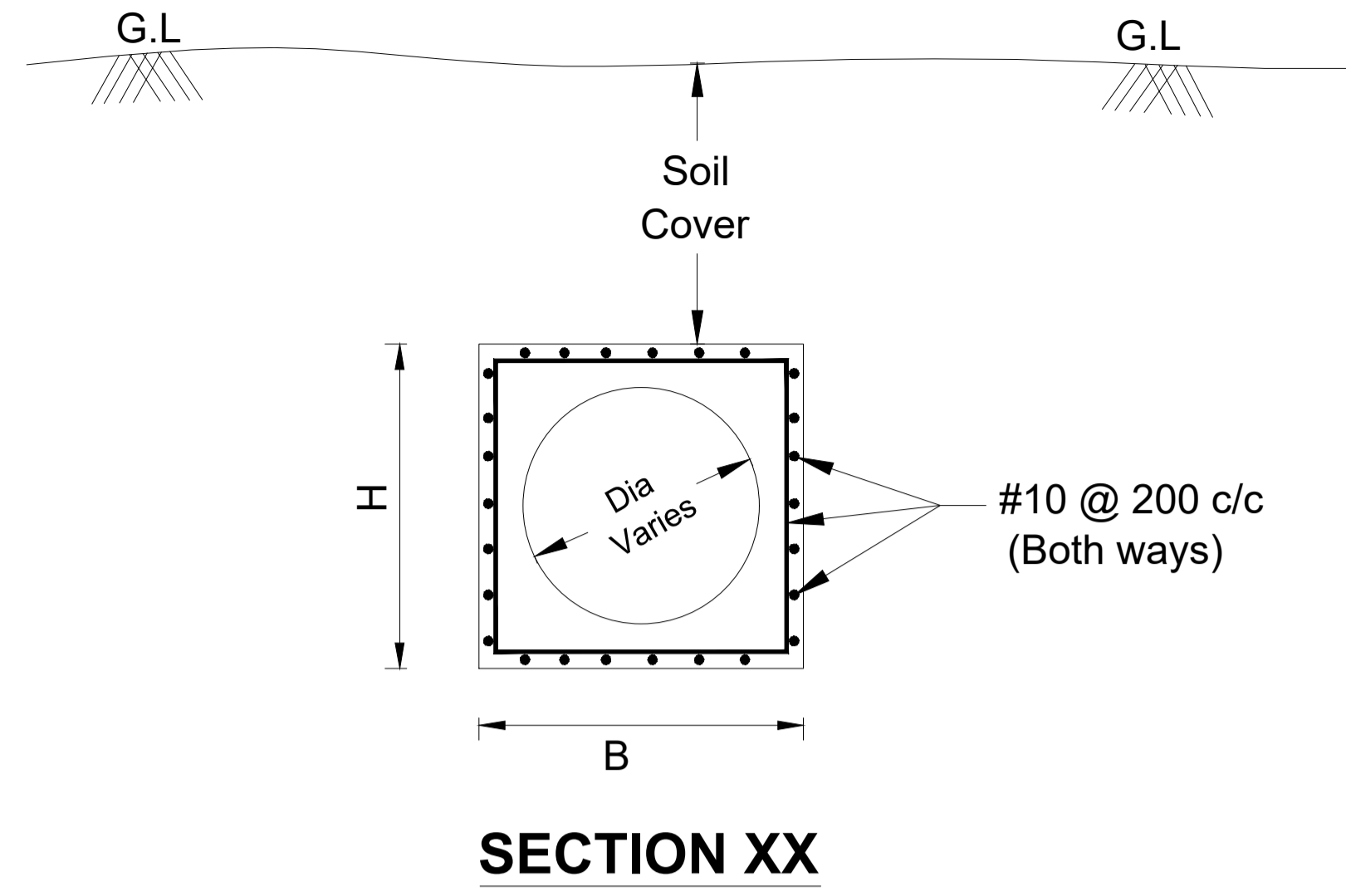
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : TYPICAL DIMENTIONS OF THRUST BLOCKS AT BENDS

Consultants :


aarvee associates
 architects engineers consultants pvt.ltd.&
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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S. No.	Pipe id	Chainage	Pipe Dia.	Design Pressure	Deflection angle	Thrust Block Dimesions		
						L	B	H
		m	m	Mpa	Deg.	m	m	m
1	M1	0+36	1.30	0.256	23.840	1.000	1.716	1.716
2	M1	0+49	1.30	0.256	8.929	0.400	1.716	1.716
3	M1	0+95	1.30	0.264	16.856	0.700	1.916	1.916
4	M1	0+127	1.30	0.266	12.204	0.500	1.916	1.916
5	M1	0+159	1.30	0.231	41.049	1.500	1.916	1.916
6	M1	0+172	1.30	0.206	39.271	1.300	1.816	1.816
7	M1	0+250	1.30	0.281	39.695	1.800	1.716	1.716
8	M1	0+508	1.30	0.292	15.247	0.700	1.716	1.716
9	M1	1+027	1.30	0.331	15.943	1.000	1.716	1.716
10	M1	1+523	1.30	0.371	31.123	2.000	1.716	1.716
11	M1	1+759	1.30	0.375	39.002	2.200	1.716	1.716
12	M1	2+056	1.30	0.313	27.835	1.500	1.716	1.716
13	M1	2+421	1.30	0.266	18.545	0.900	1.716	1.716
14	M1	2+567	1.30	0.286	22.725	1.000	1.716	1.716
15	M1	2+637	1.30	0.277	31.378	1.500	1.716	1.716
16	M1	2+855	1.30	0.332	82.263	3.500	1.916	1.916
17	M1	3+530	1.20	0.454	11.918	0.900	1.616	1.616
18	M1	3+716	1.20	0.475	7.997	0.600	1.716	1.716
19	M1	4+064	1.20	0.521	7.113	0.600	1.616	1.616
20	M1	4+428	1.20	0.576	11.300	1.000	1.616	1.616
21	M1	4+782	1.10	0.584	12.026	1.000	1.516	1.516
22	M1	4+905	1.10	0.660	17.120	1.500	1.516	1.516
23	M1	5+254	1.00	0.576	9.890	0.800	1.416	1.416
24	M1	5+487	1.00	0.536	8.146	0.600	1.416	1.416
25	M1	5+714	1.00	0.553	9.714	0.700	1.416	1.416

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4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.

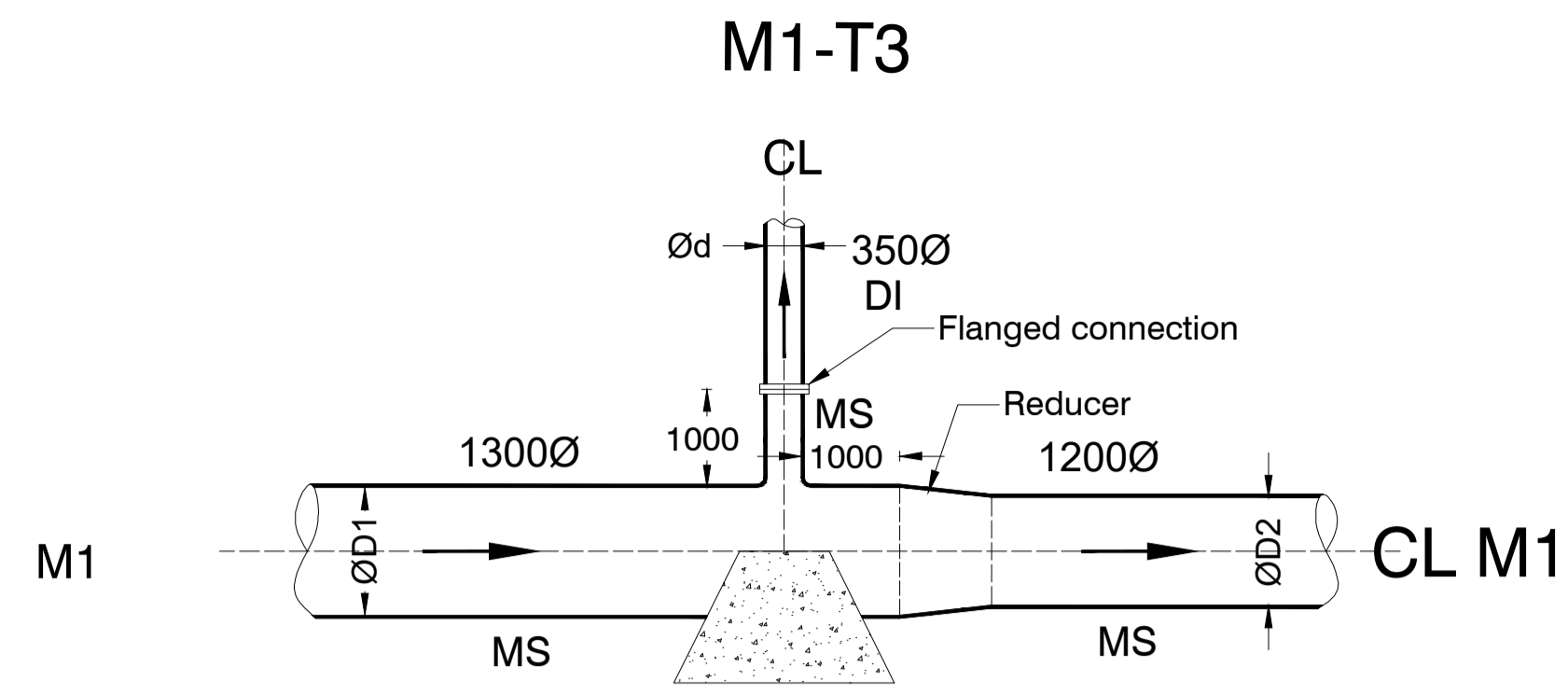
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATON SCHEME

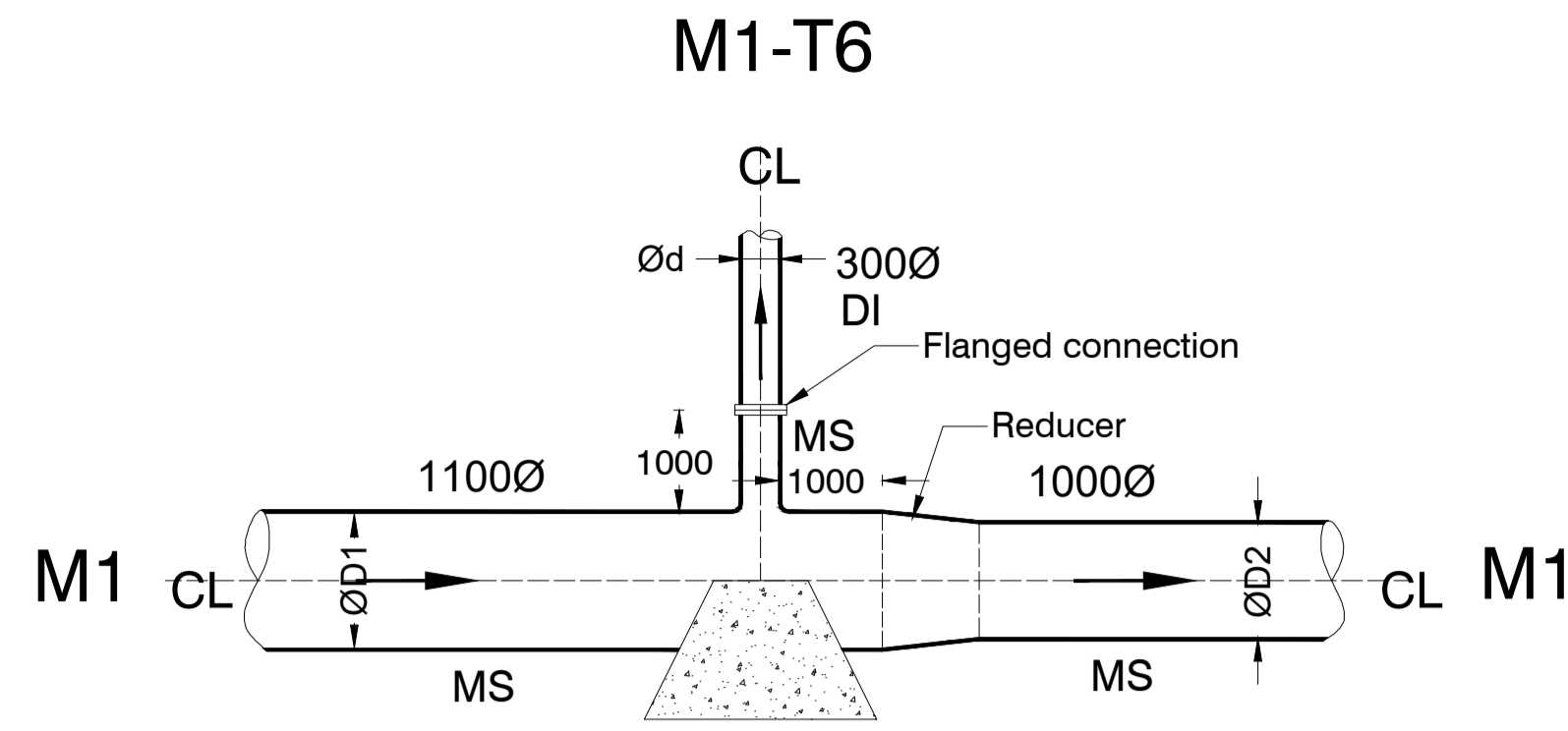
Title : THRUST BLOCK DETAILS FOR MS PIPES
(1000 to 1300mm Dia.)

Consultants :

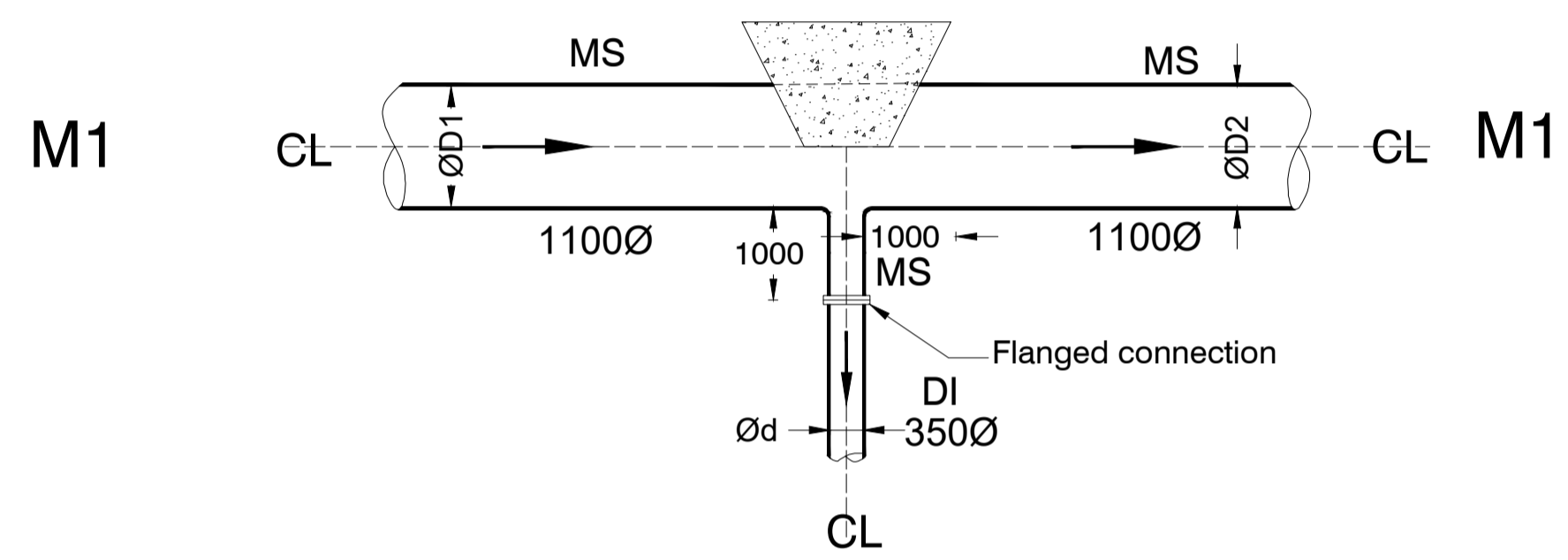

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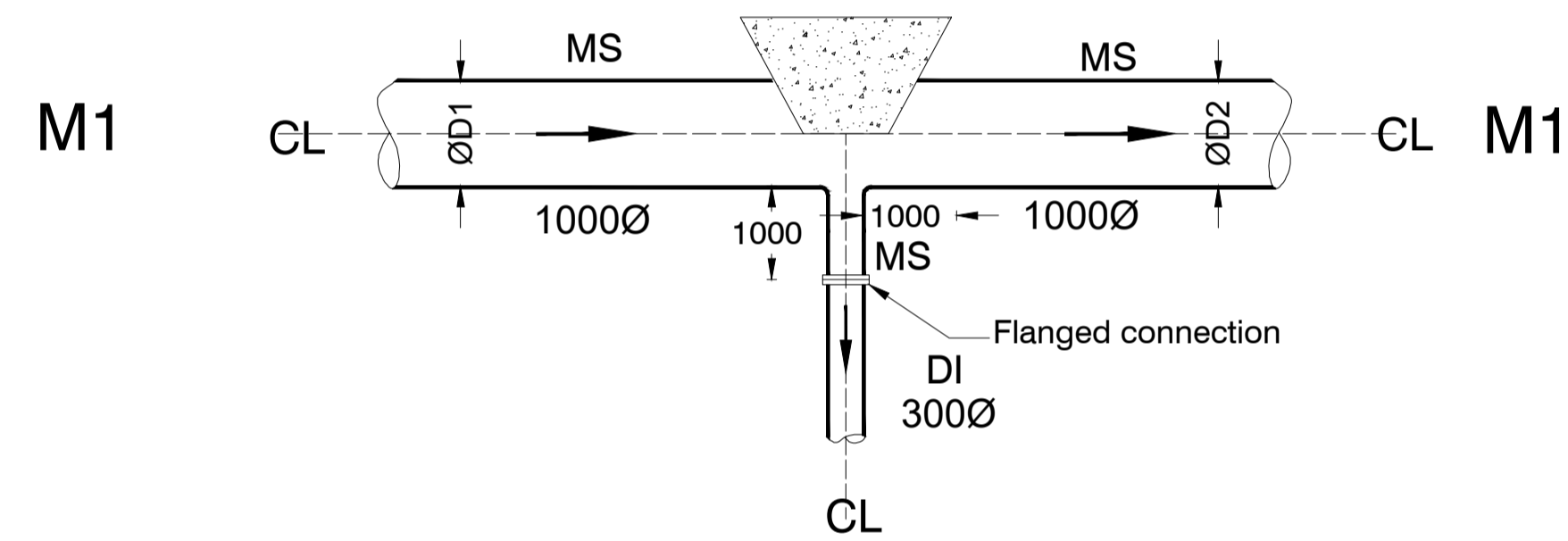
JUNCTION 29



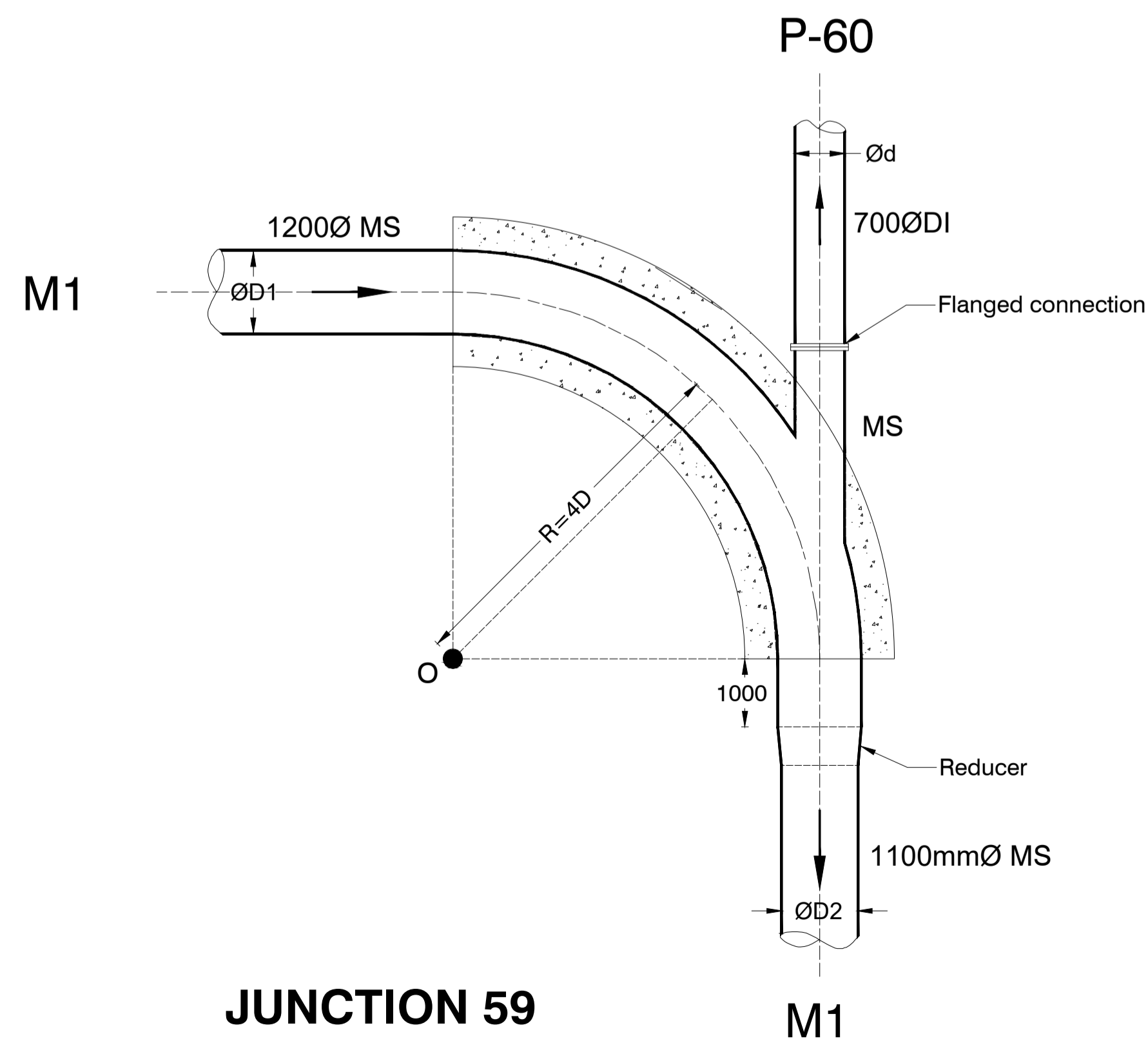
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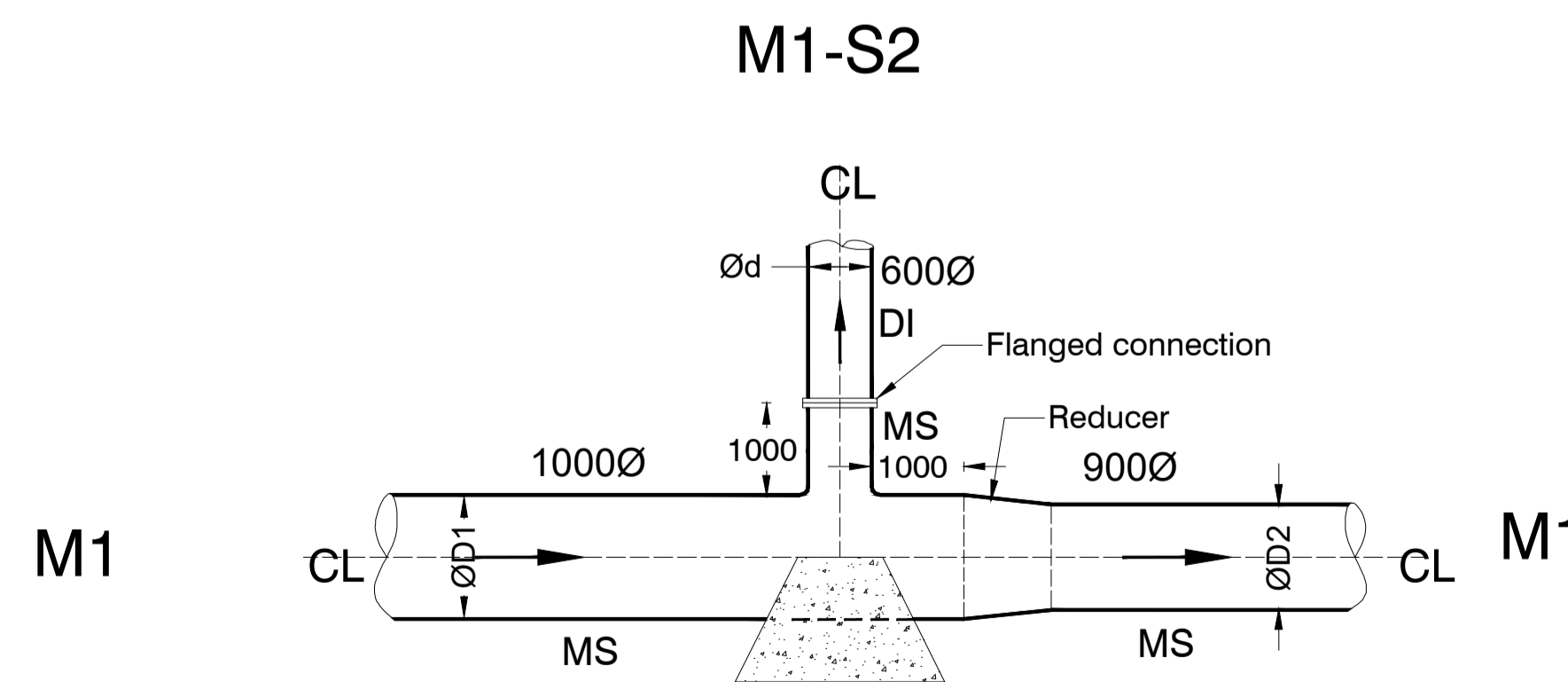
**M1 -T5
JUNCTION 113**



**M1-T7
JUNCTION 141**



JUNCTION 59



JUNCTION 155

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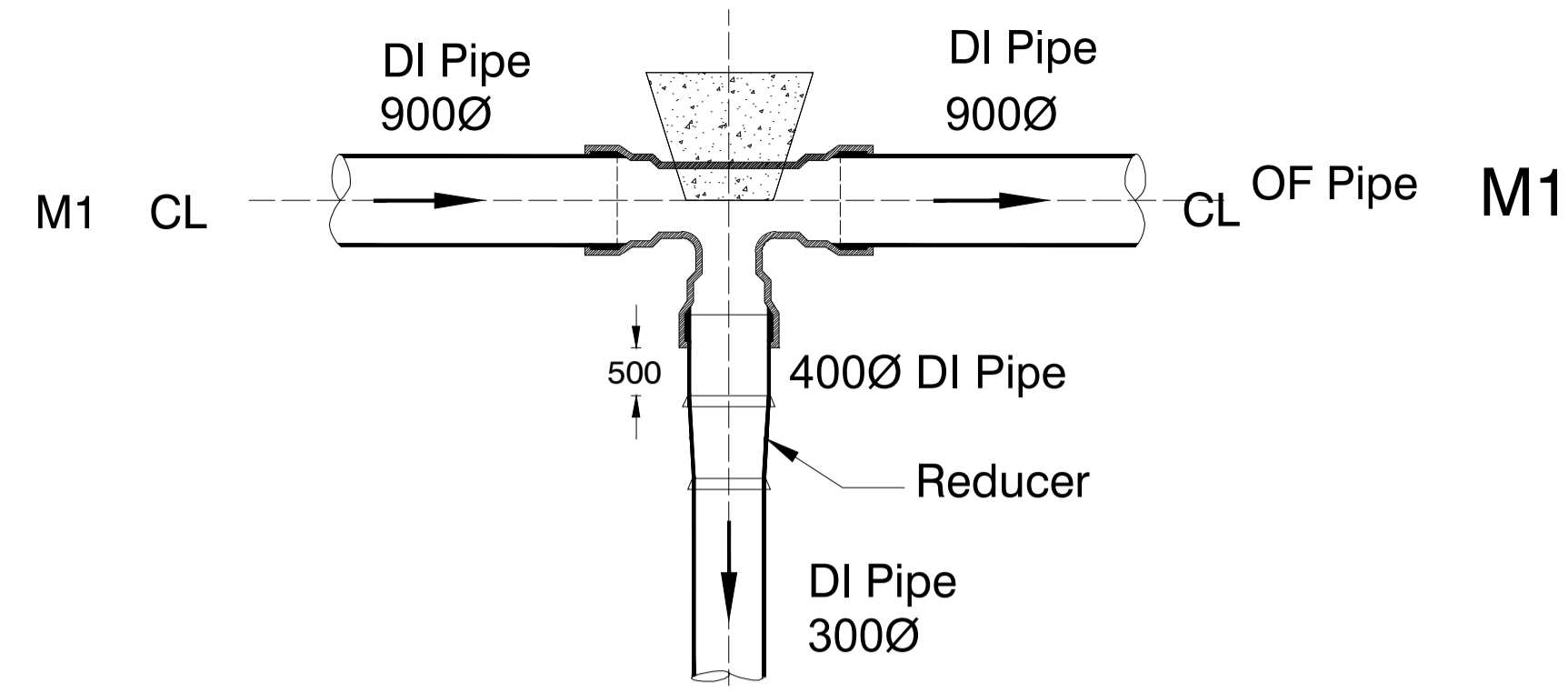
Client : REPUBLIC OF UGANDA
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Project : KABUYANDA IRRIGATION SCHEME

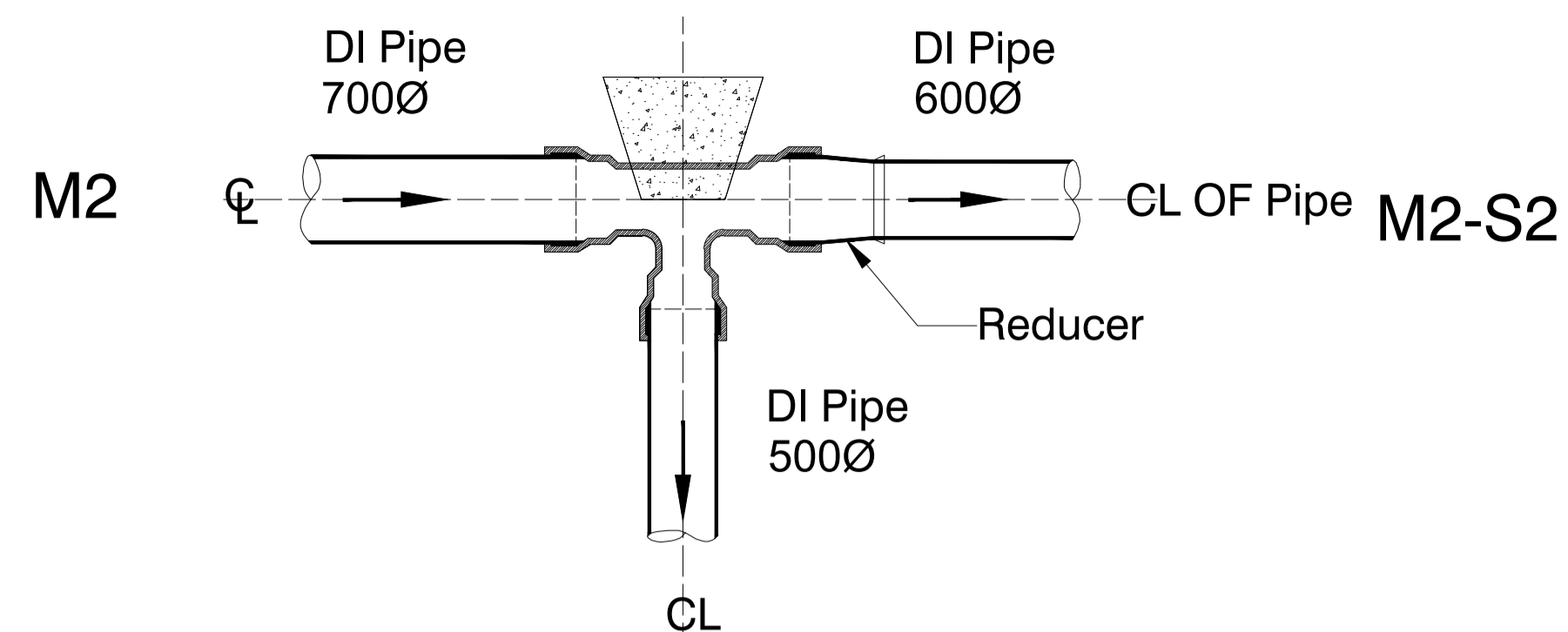
Title : DETAILS OF THRUST BLOCKS @ T-JUNCTIONS
(MS TO DI/HDPE PIPES)

Consultants :

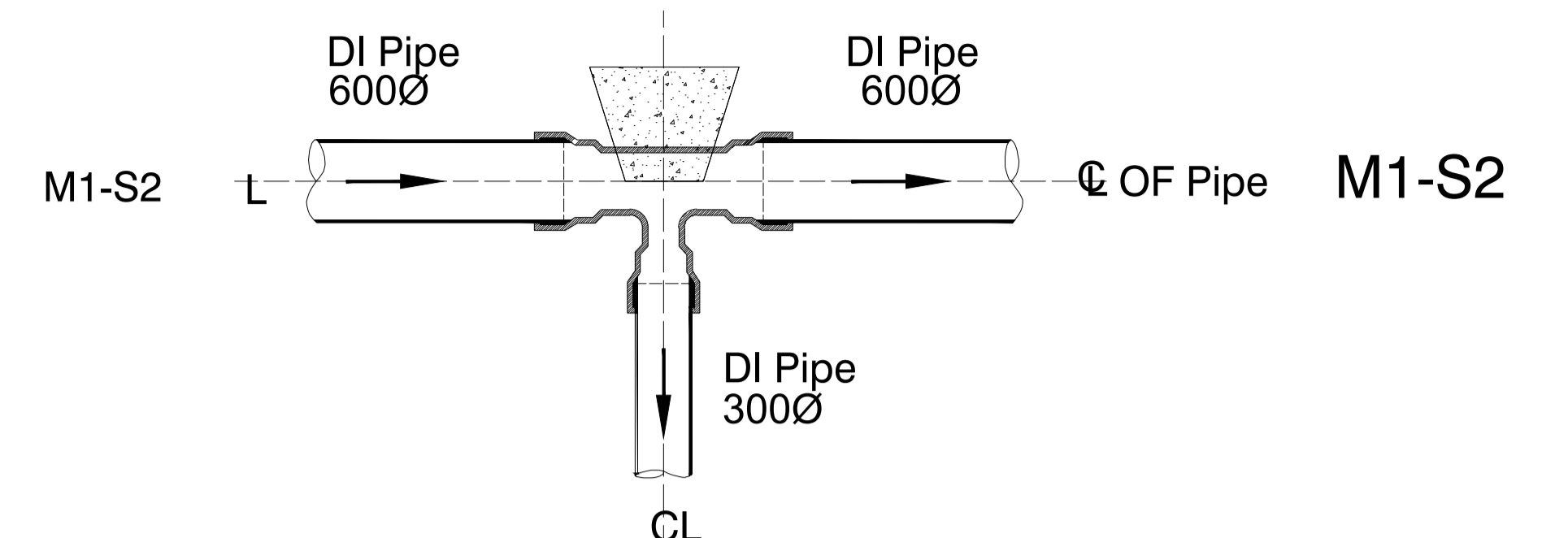

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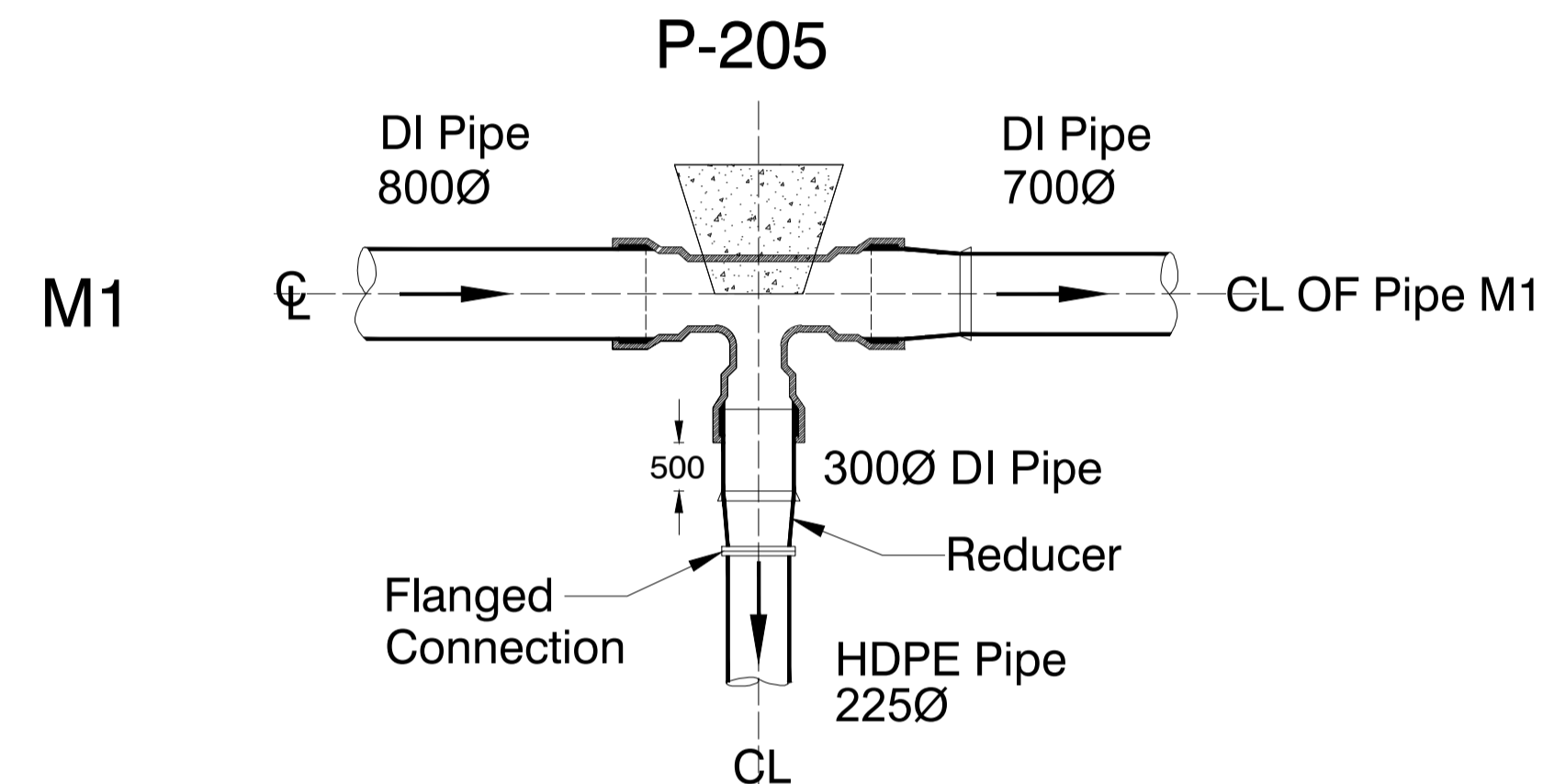
JUNCTION 204



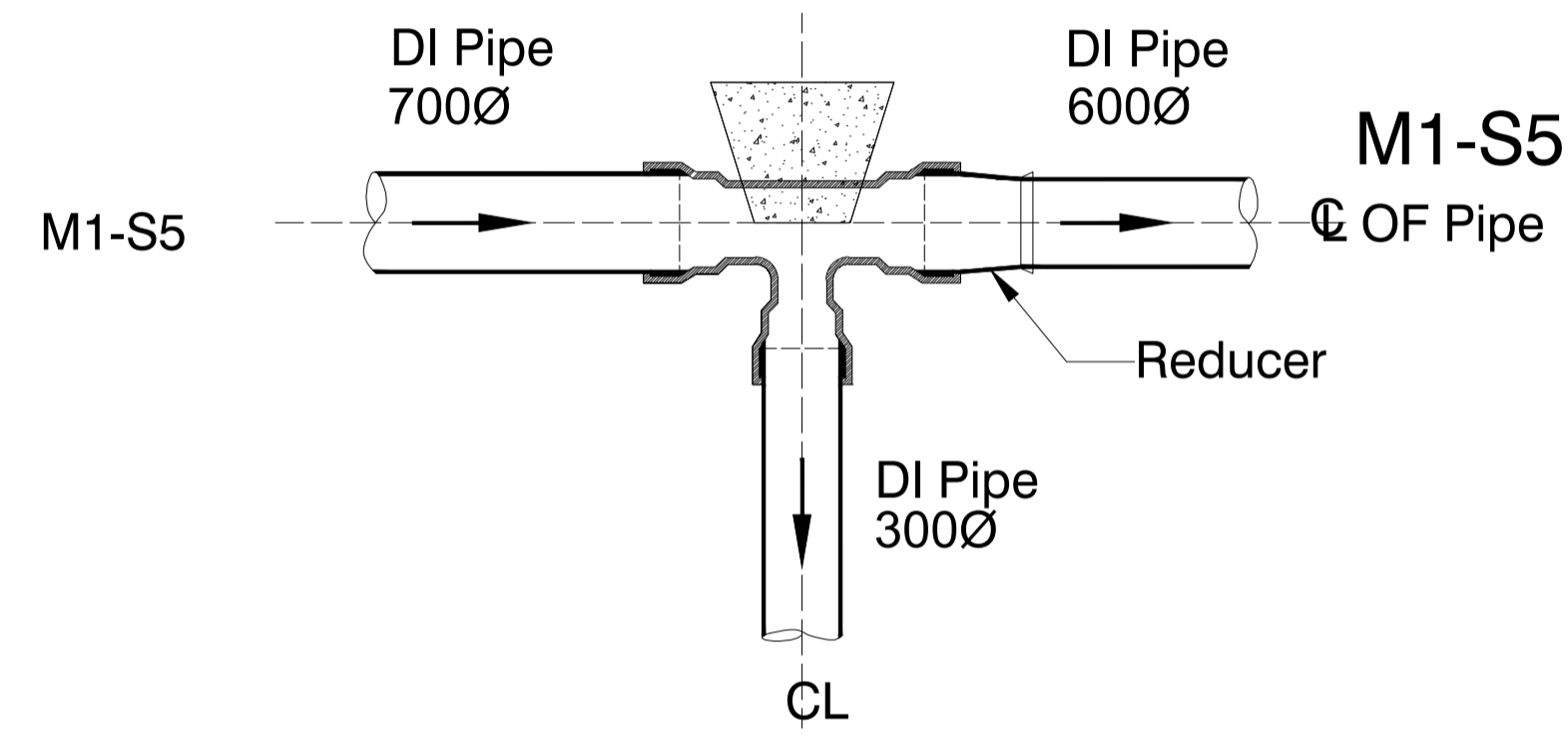
**M2-S2
JUNCTION 60**



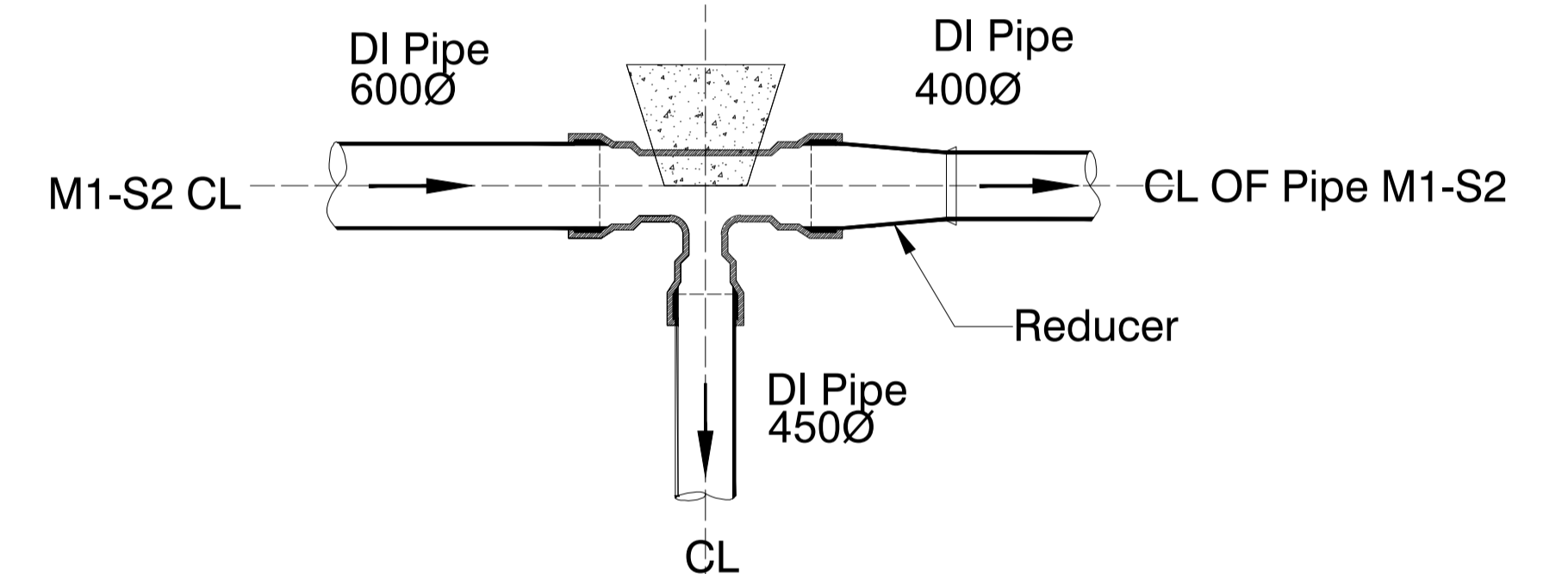
**M1-S2-T1
JUNCTION 156**



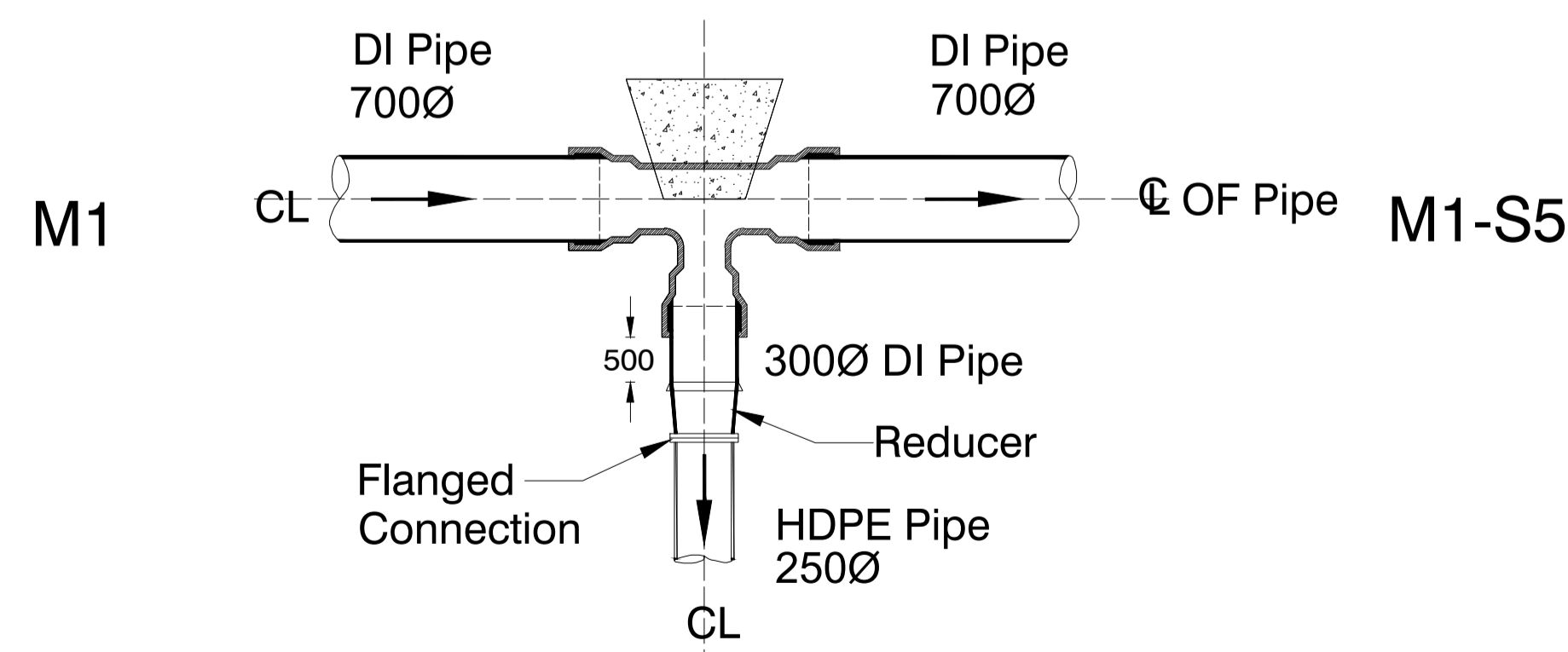
**M1-T11
JUNCTION 262**



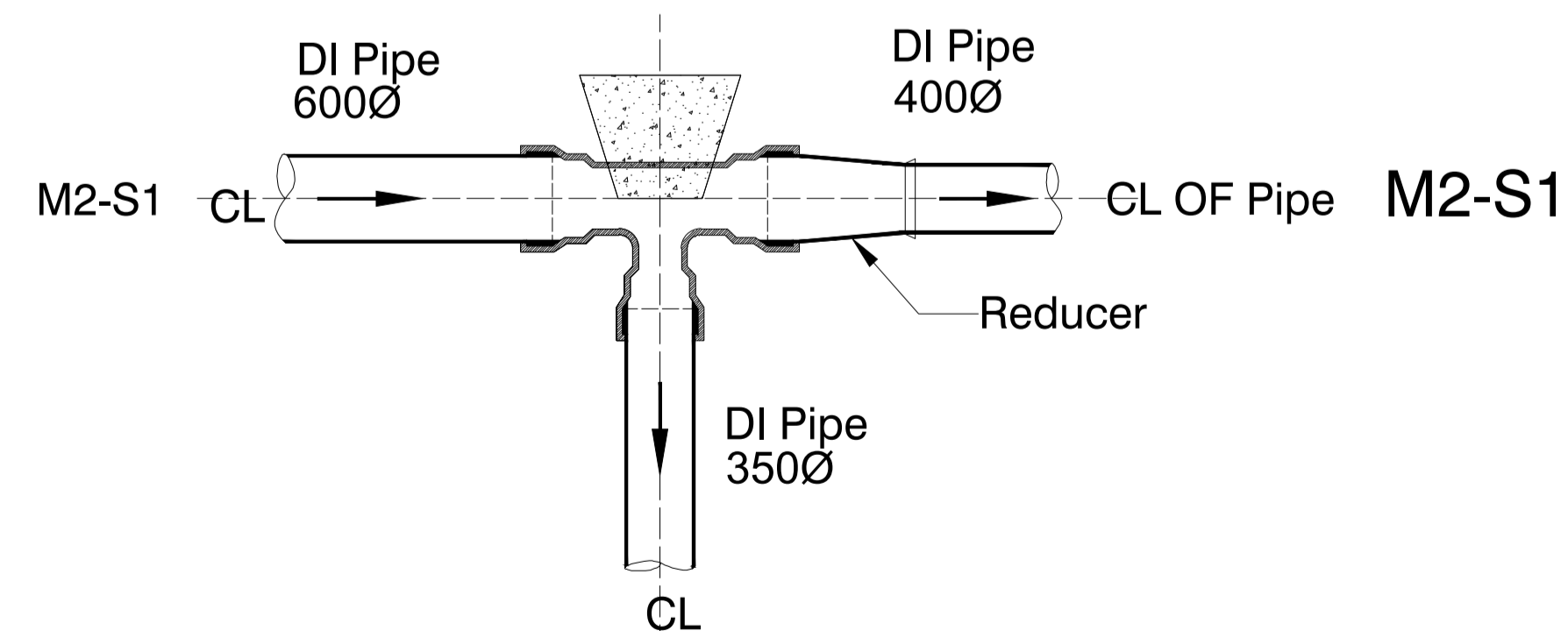
**M1-S5-T2
JUNCTION 273**



**M1-S2-T2
JUNCTION 166**



**M1-S5-T1
JUNCTION 269**



**M2-S1-T1
JUNCTION 82**

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5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.

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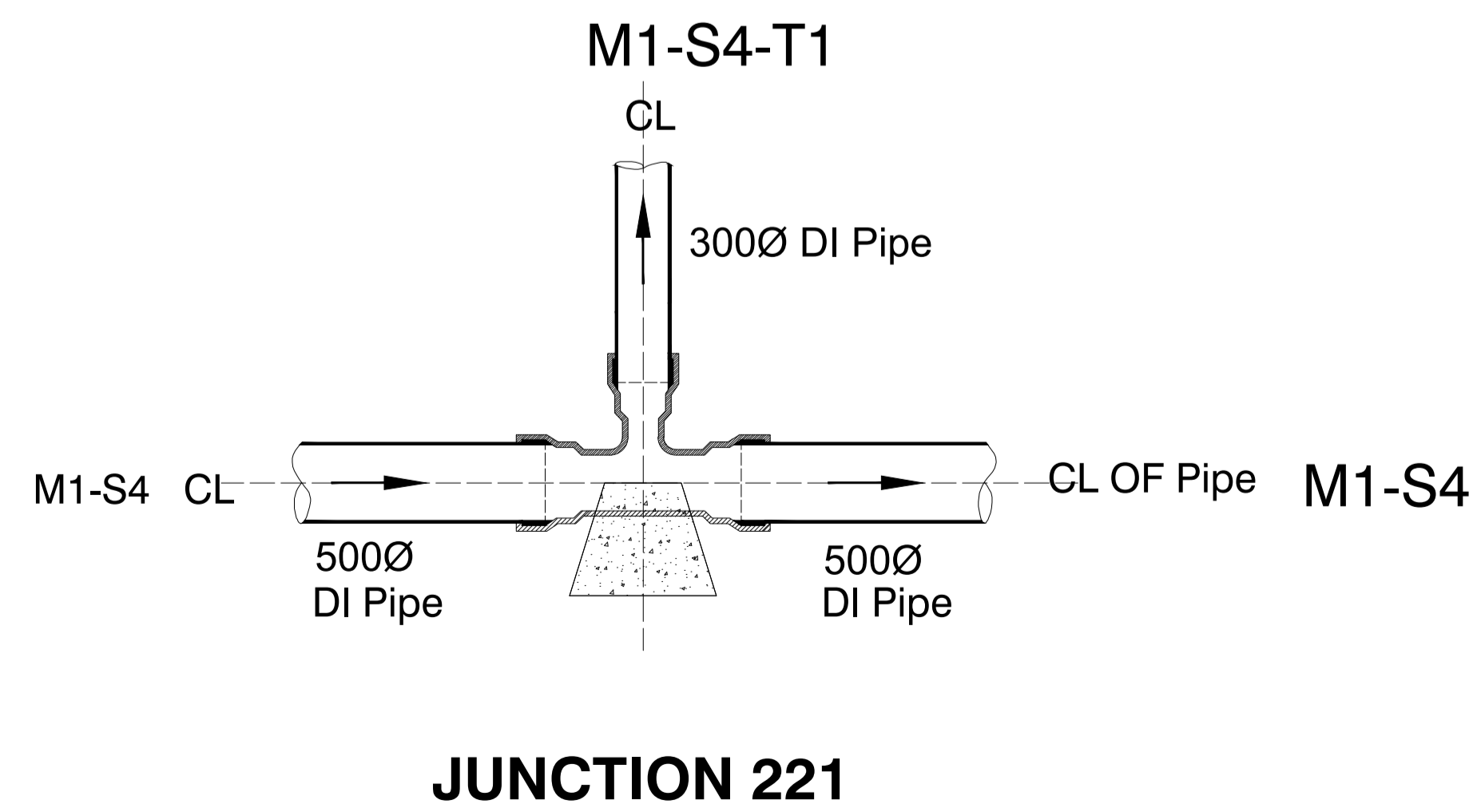
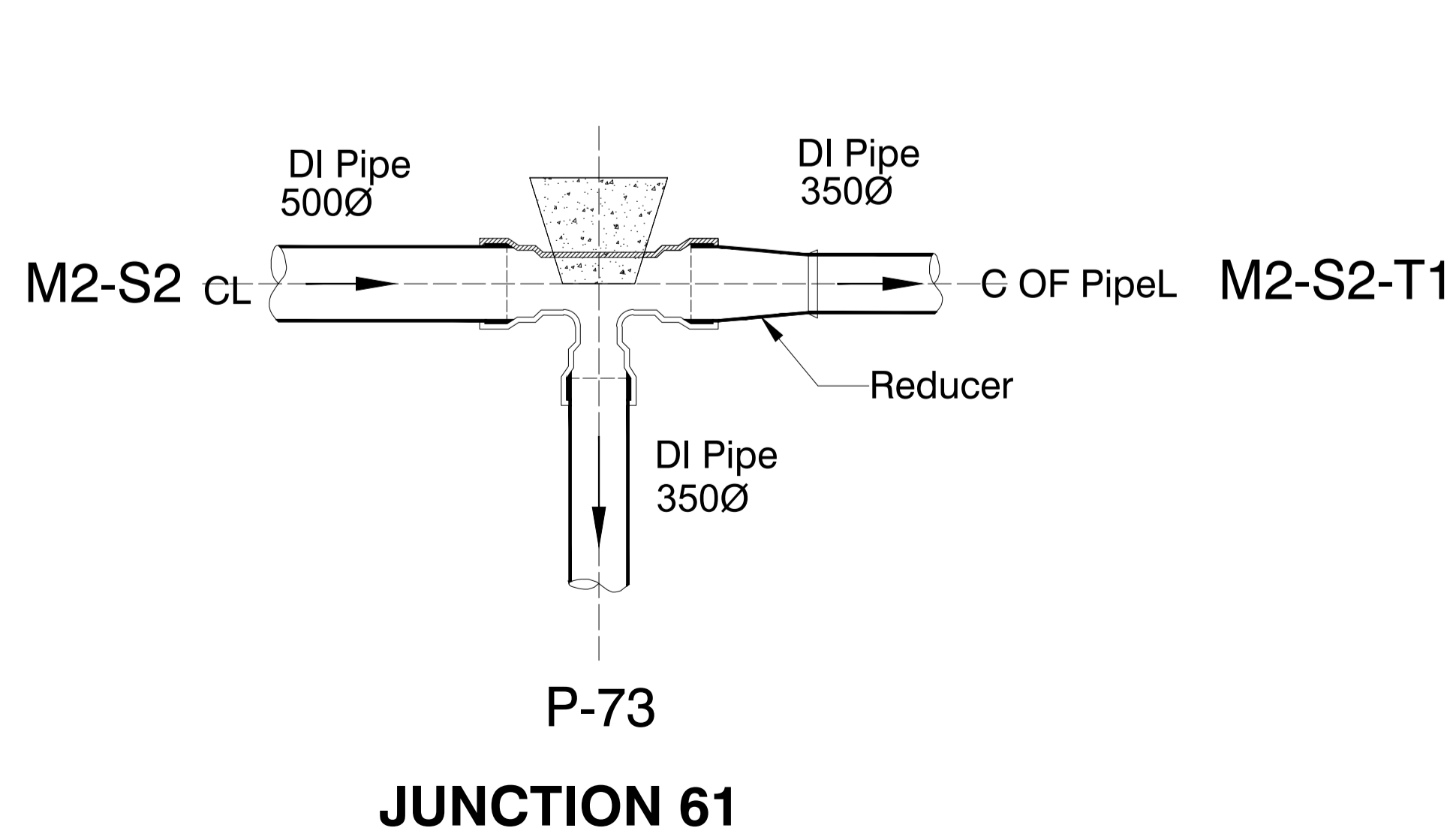
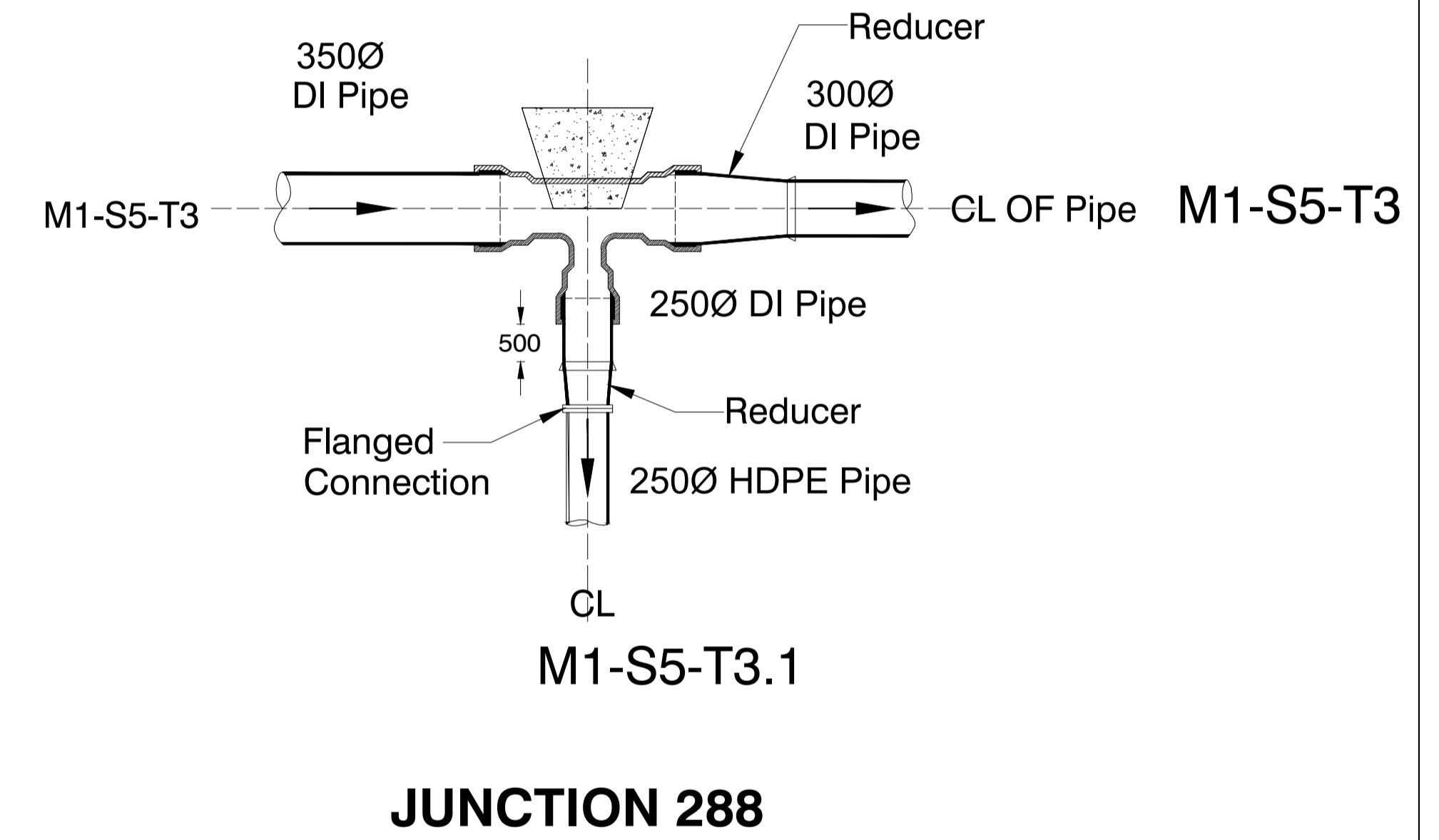
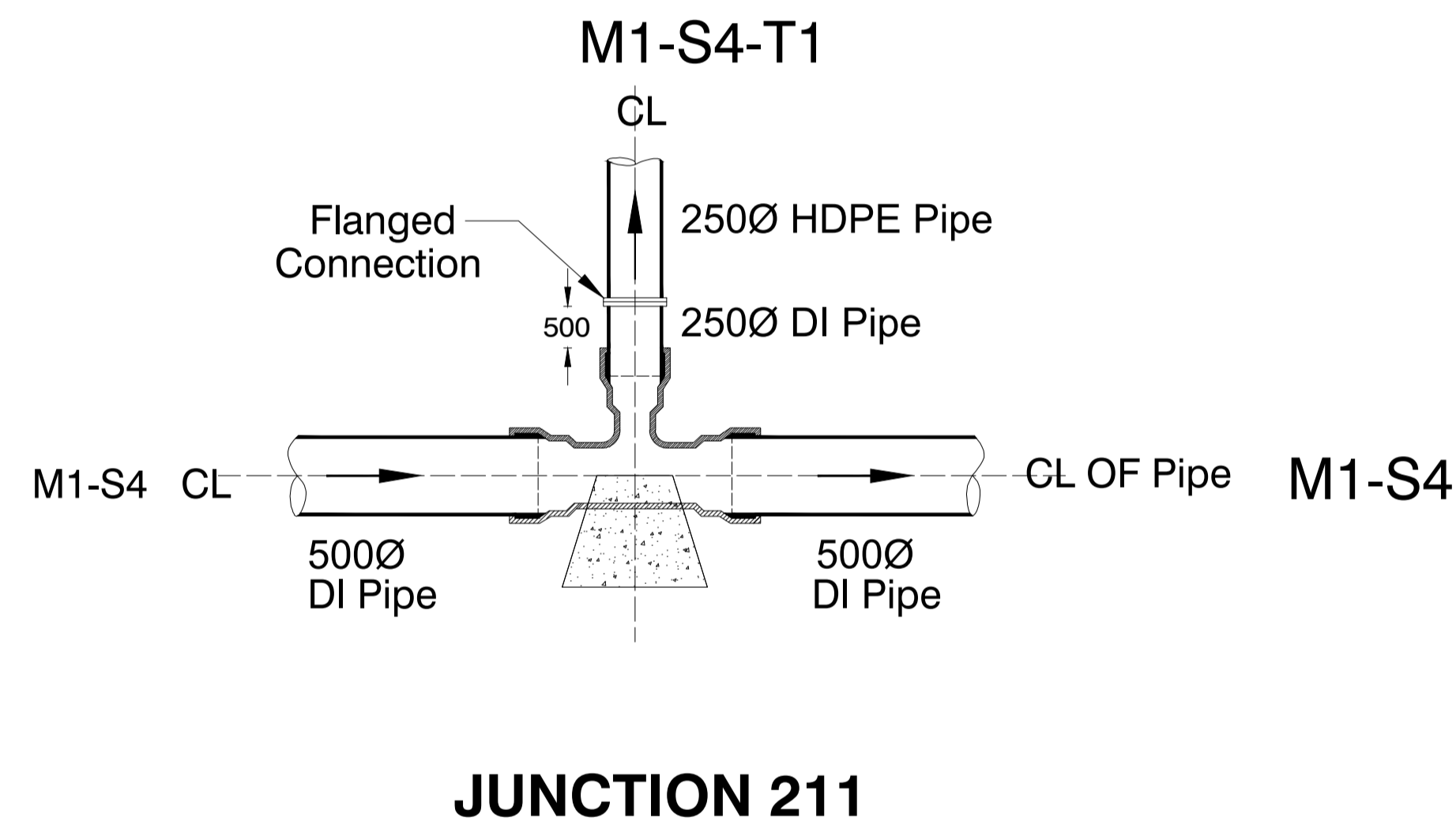
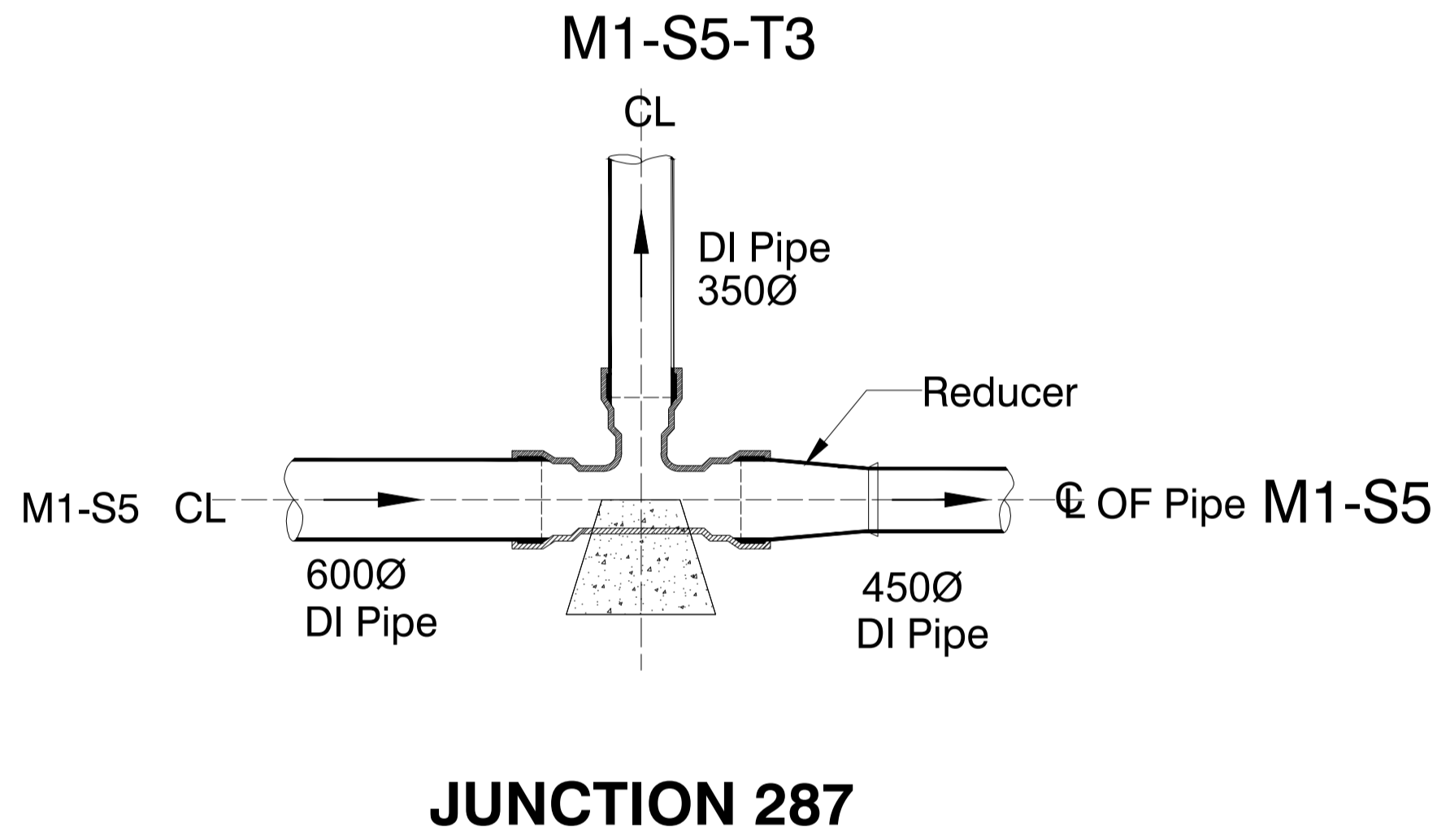
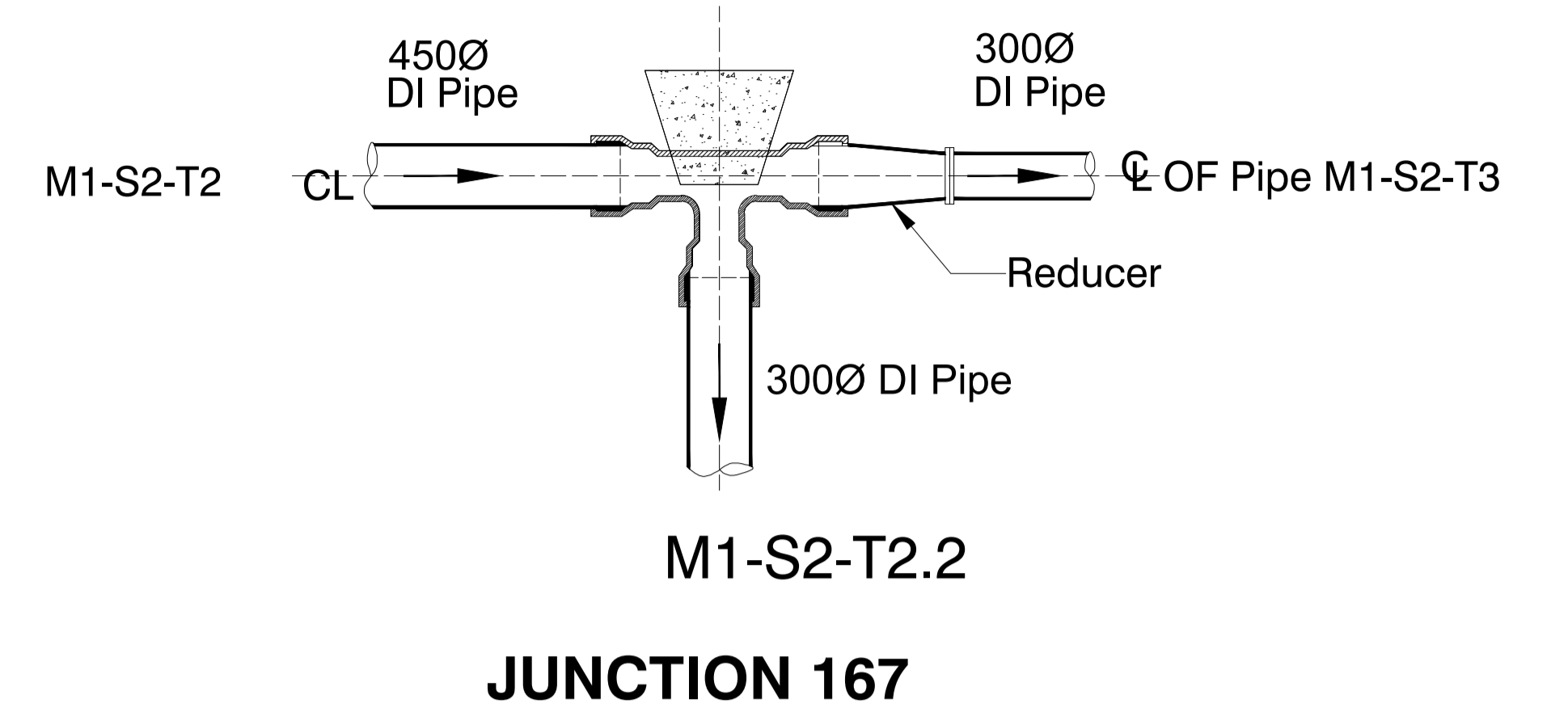
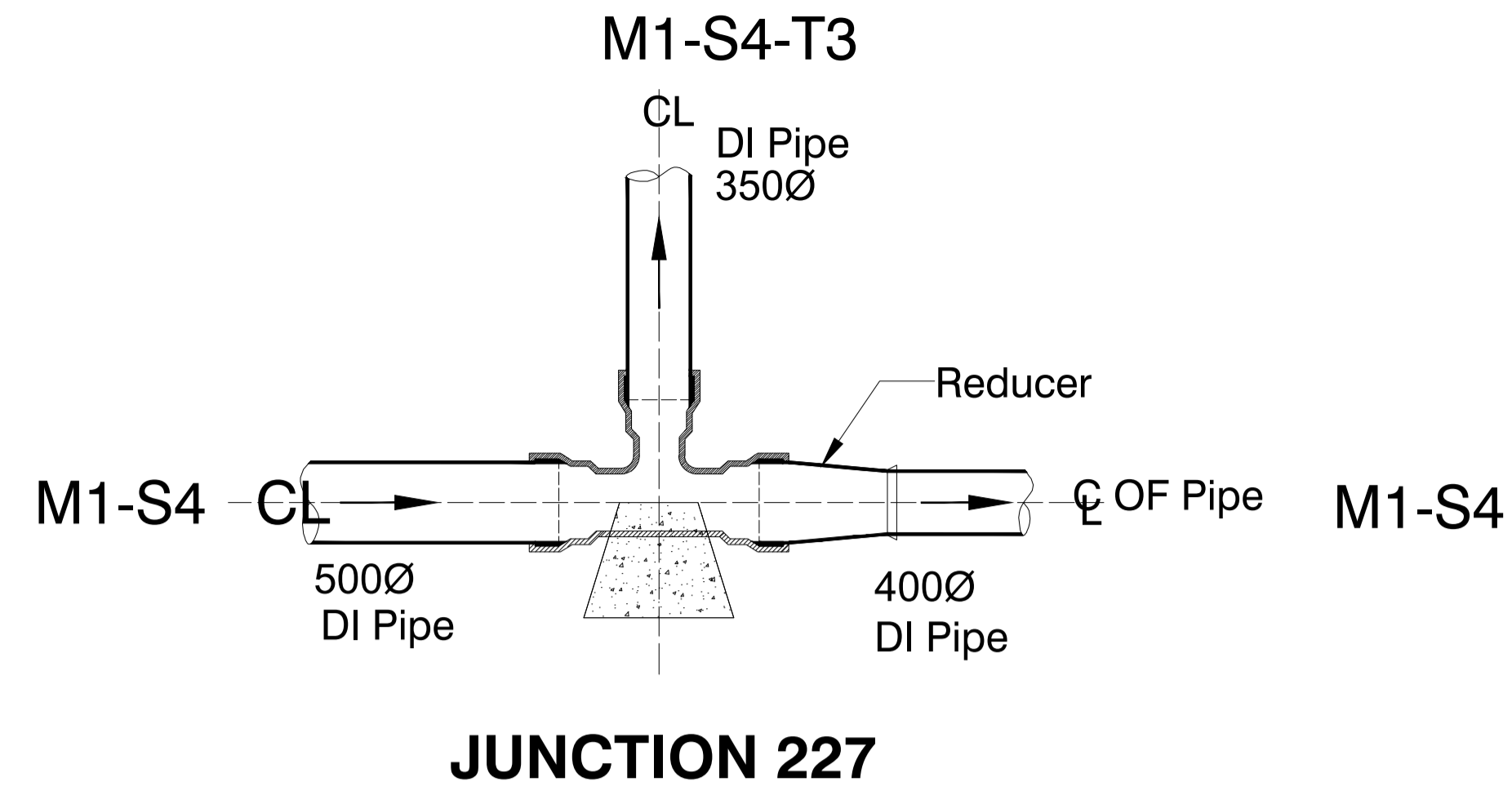
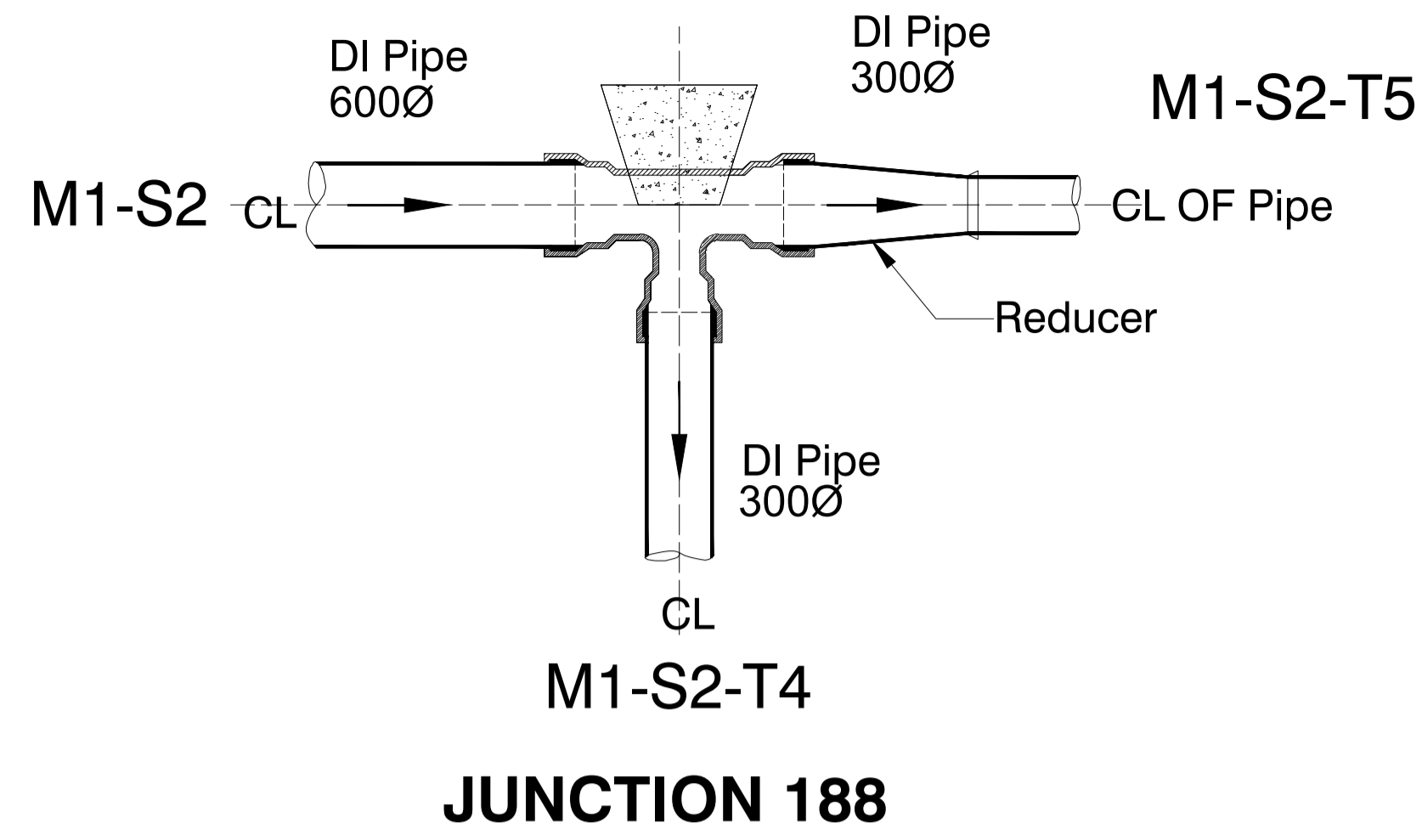
Project : KABUYANDA IRRIGATION SCHEME

Title : DETAILS OF THRUST BLOCKS @ T-JUNCTIONS
(DI TO DI/HDPE PIPES)

Consultants :



aarvee associates
architects engineers consultants pvt.ltd.&
Revula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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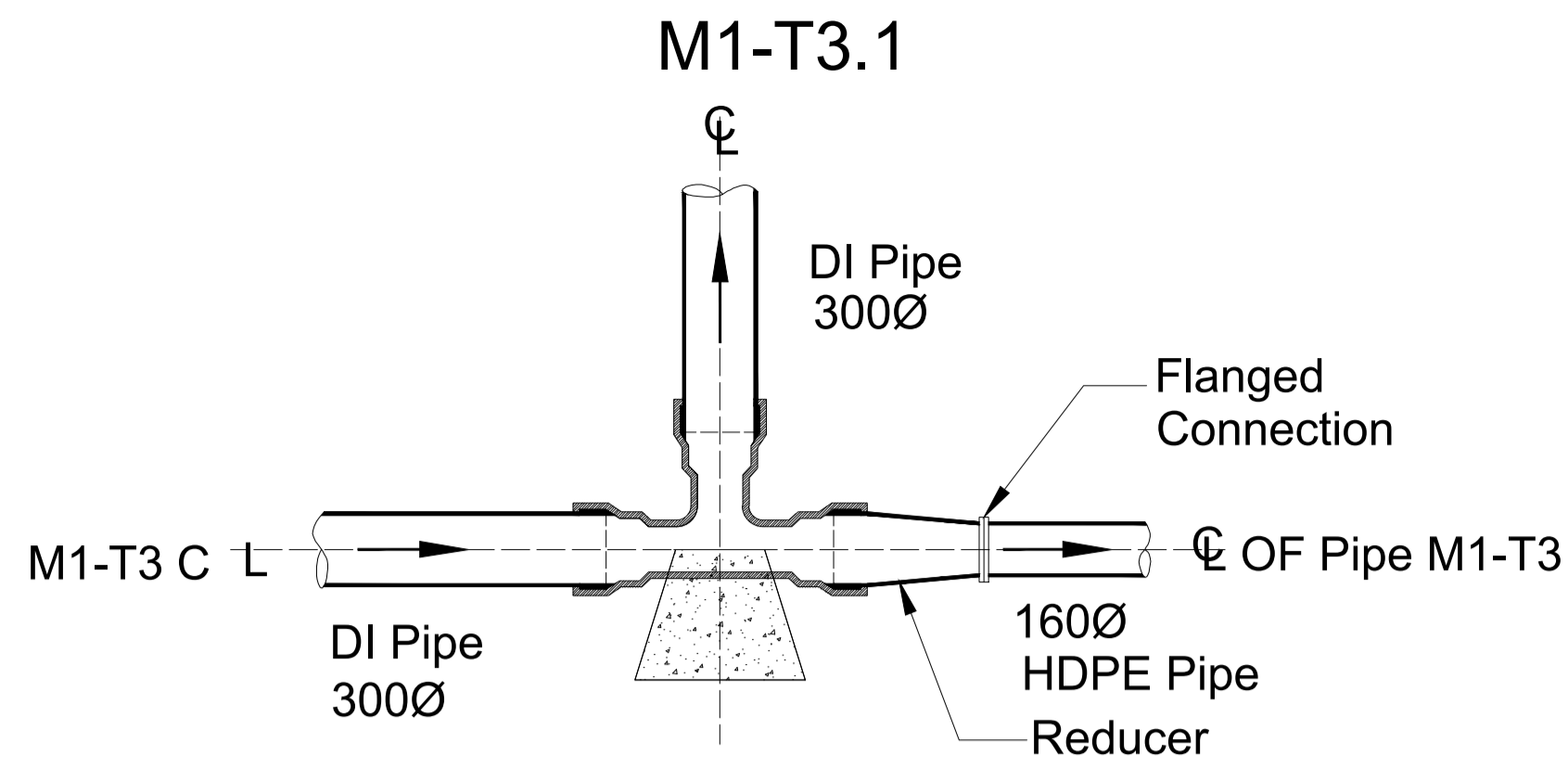
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

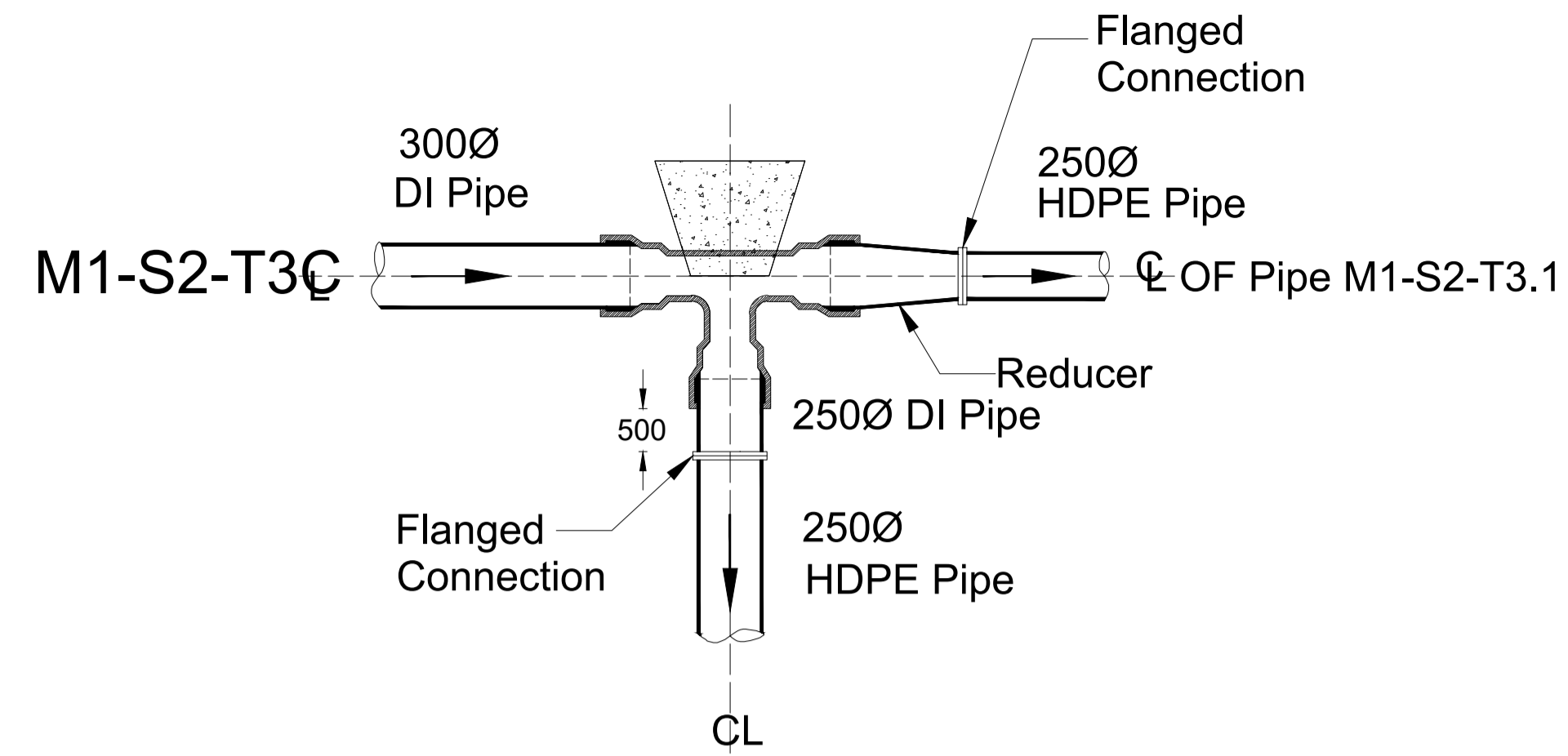
Title : DETAILS OF THRUST BLOCKS @ T-JUNCTIONS
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Consultants :

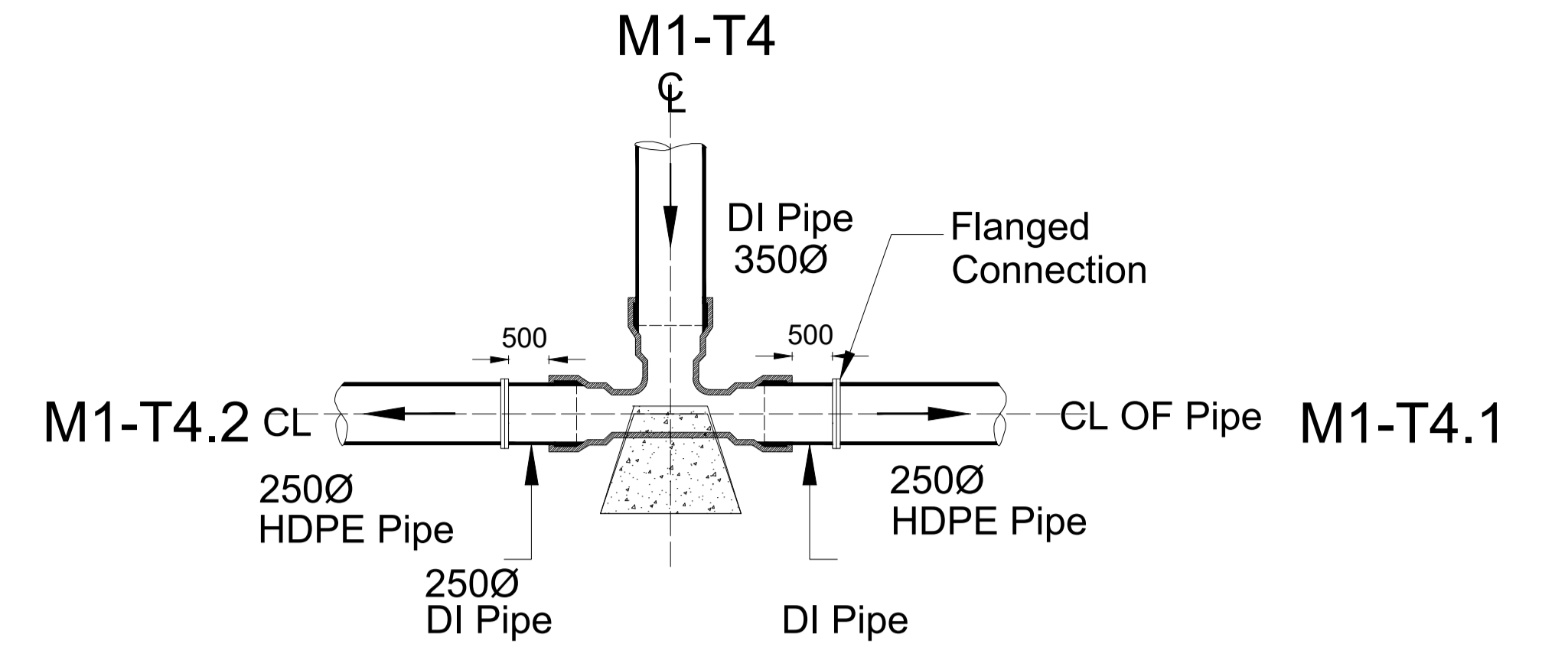

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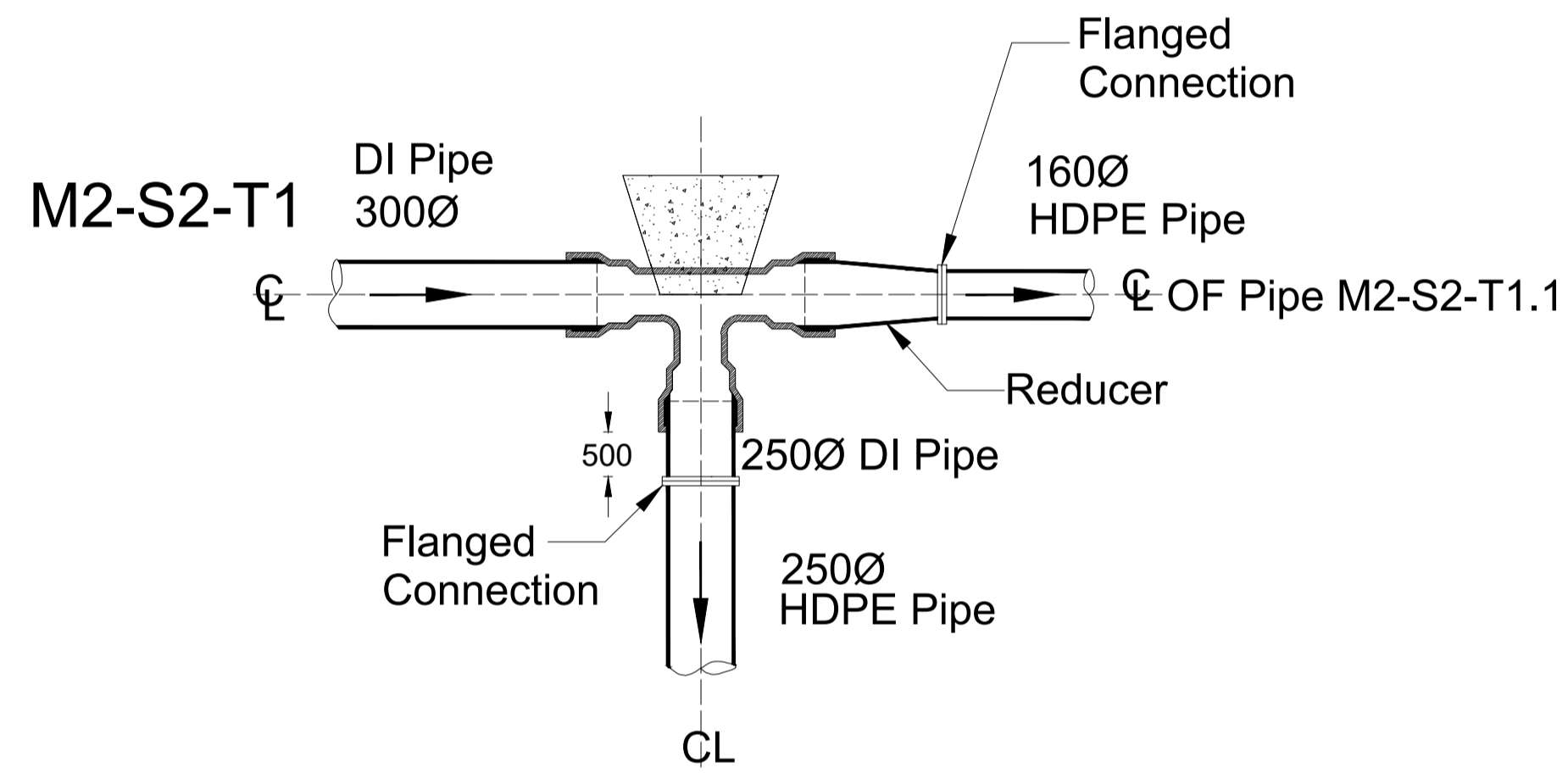
JUNCTION- 30



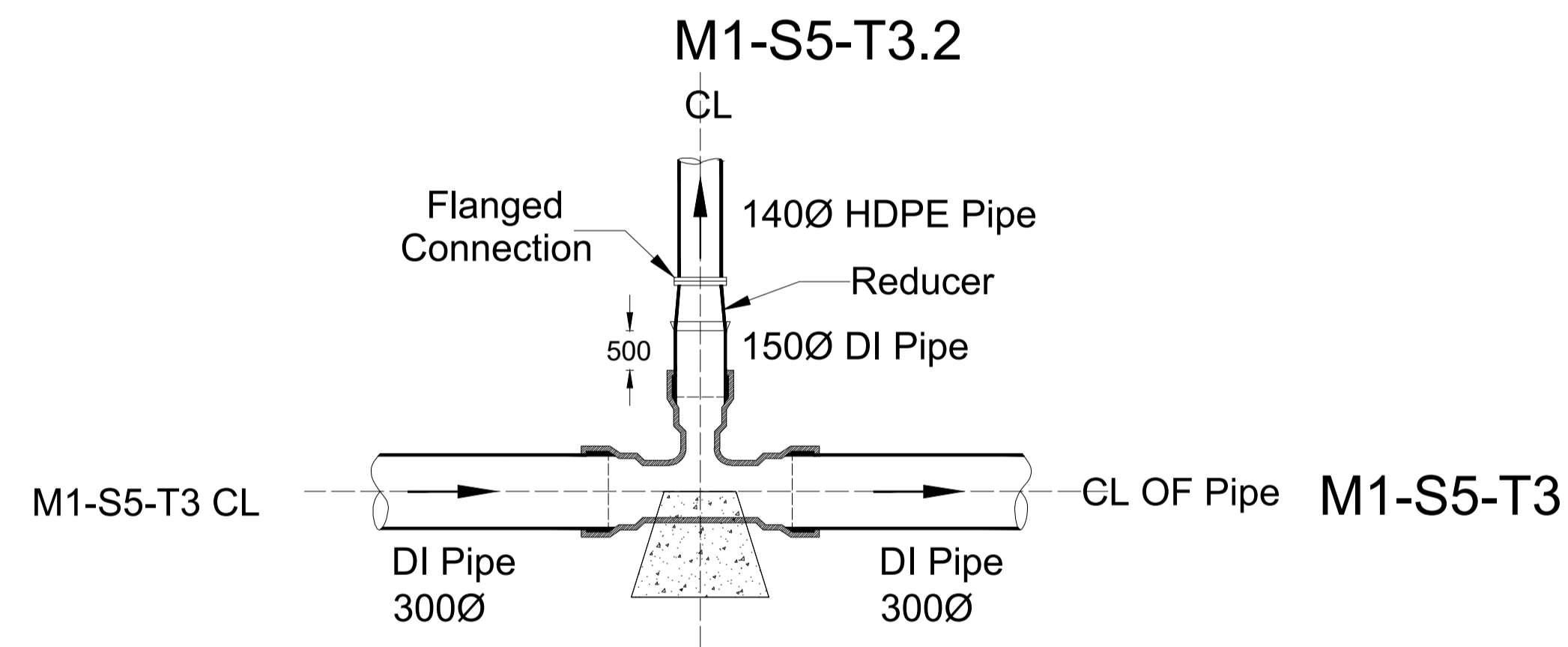
JUNCTION- 181



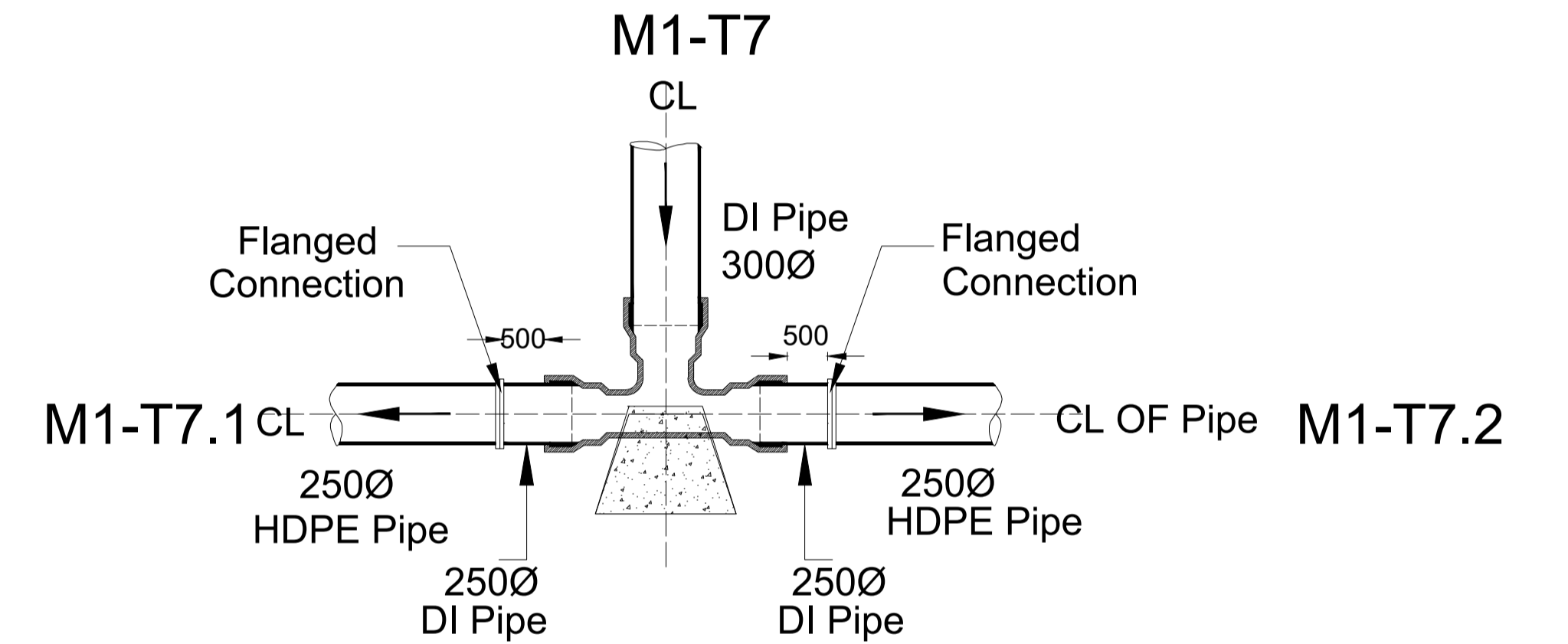
JUNCTION- 48



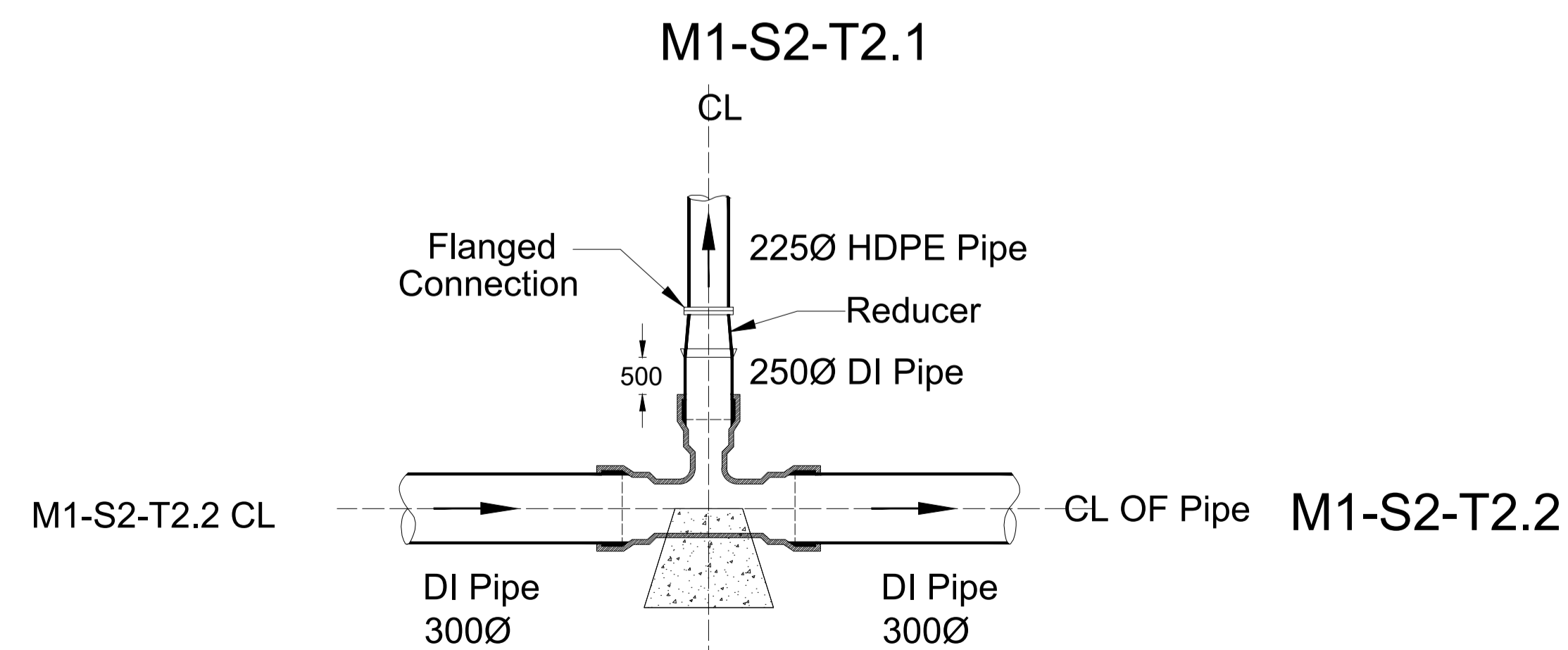
JUNCTION- 66



JUNCTION- 297



JUNCTION- 142



JUNCTION- 170

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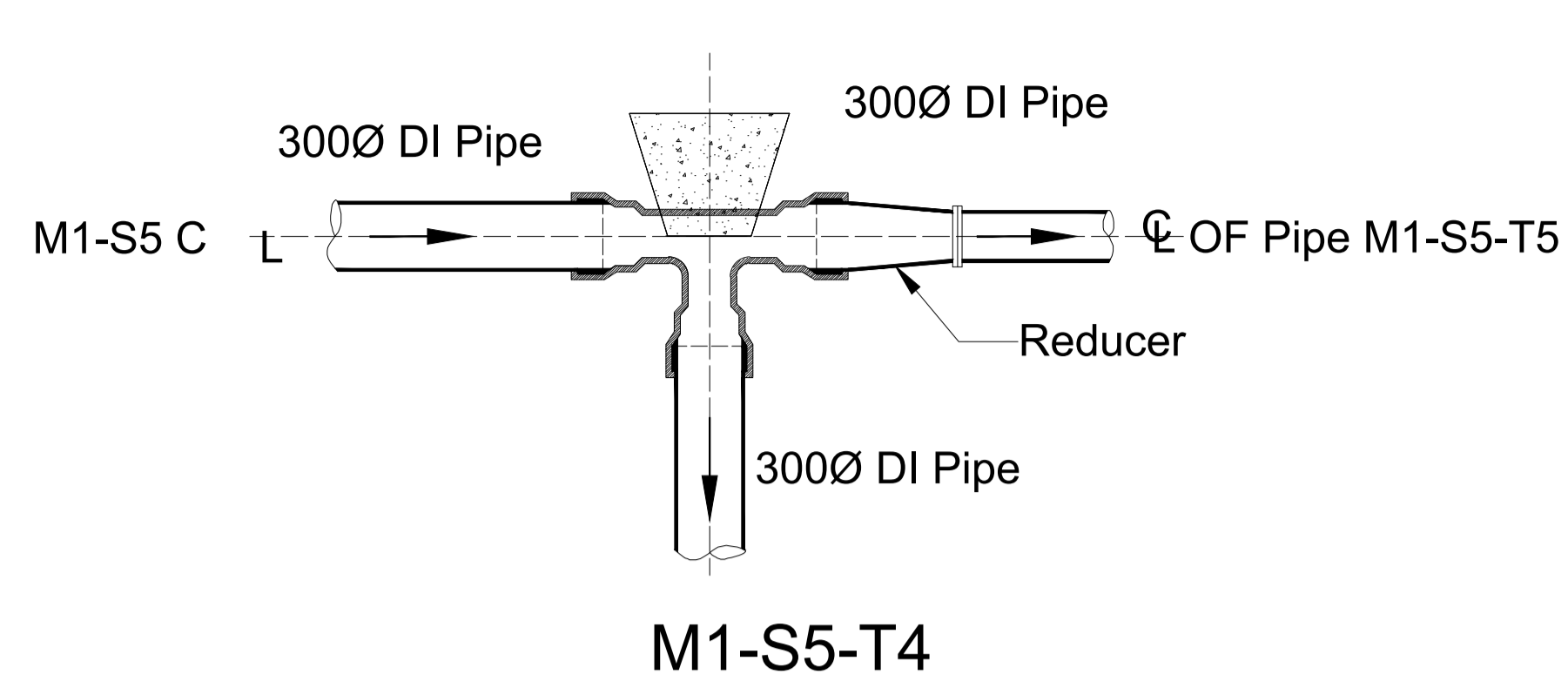
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

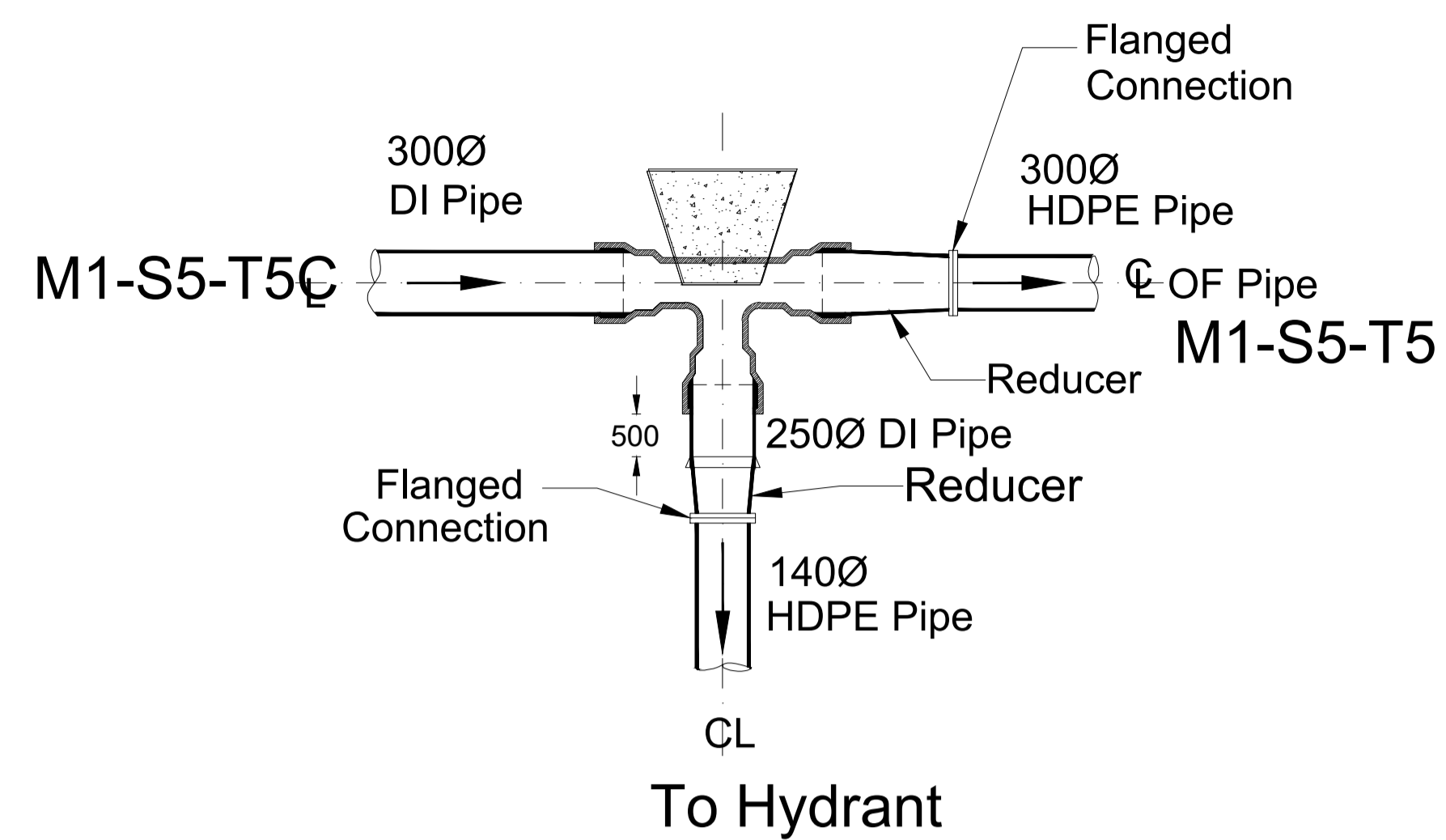
Title : **DETAILS OF THRUST BLOCKS @ T-JUNCTIONS**
(DI TO DI/HDPE PIPES)

Consultants :

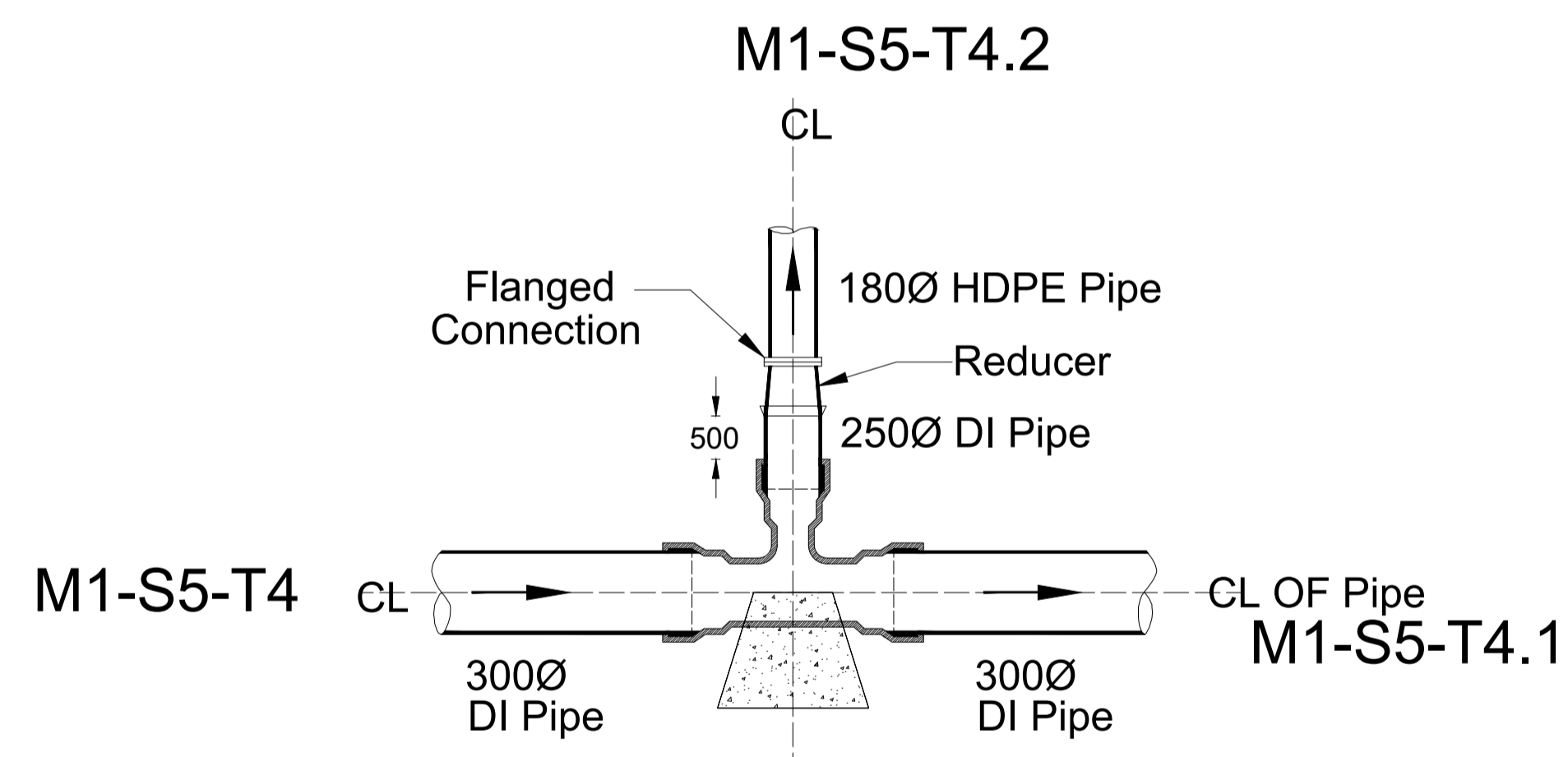

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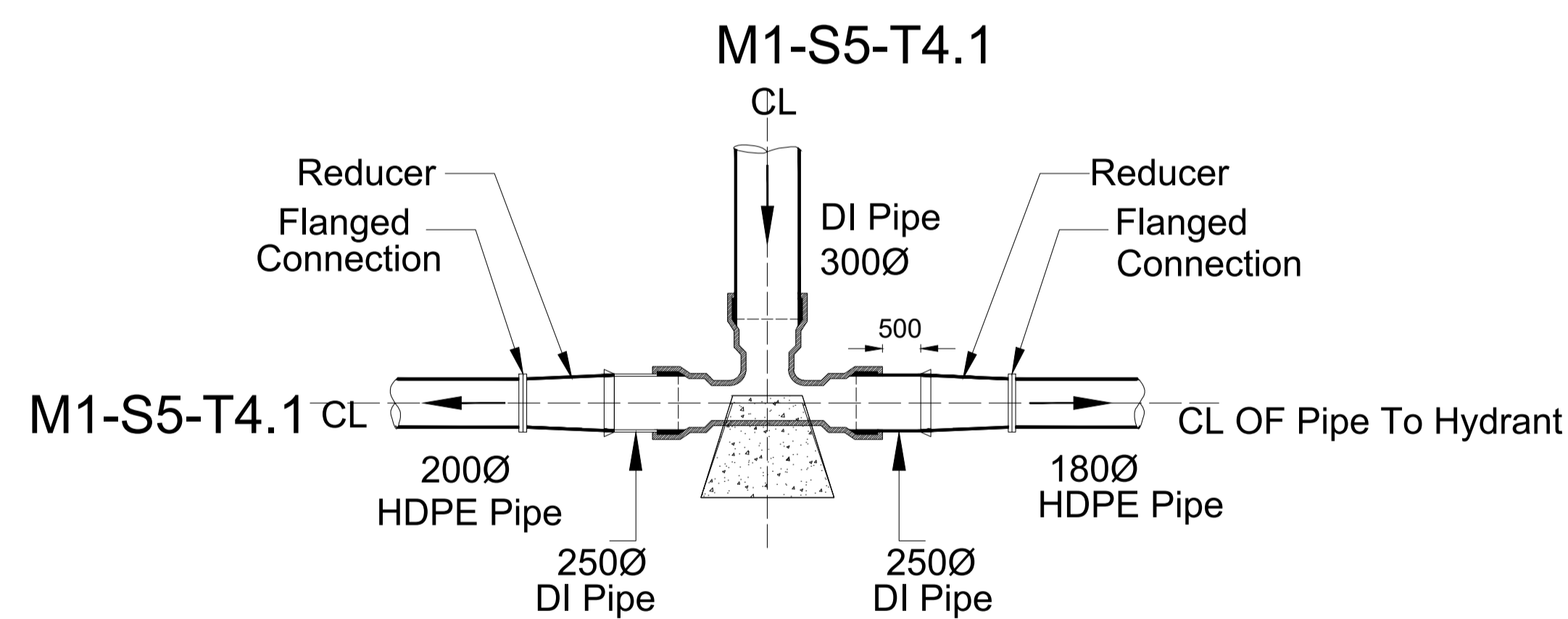
JUNCTION- 310



JUNCTION- 326



JUNCTION- 311



JUNCTION- 317

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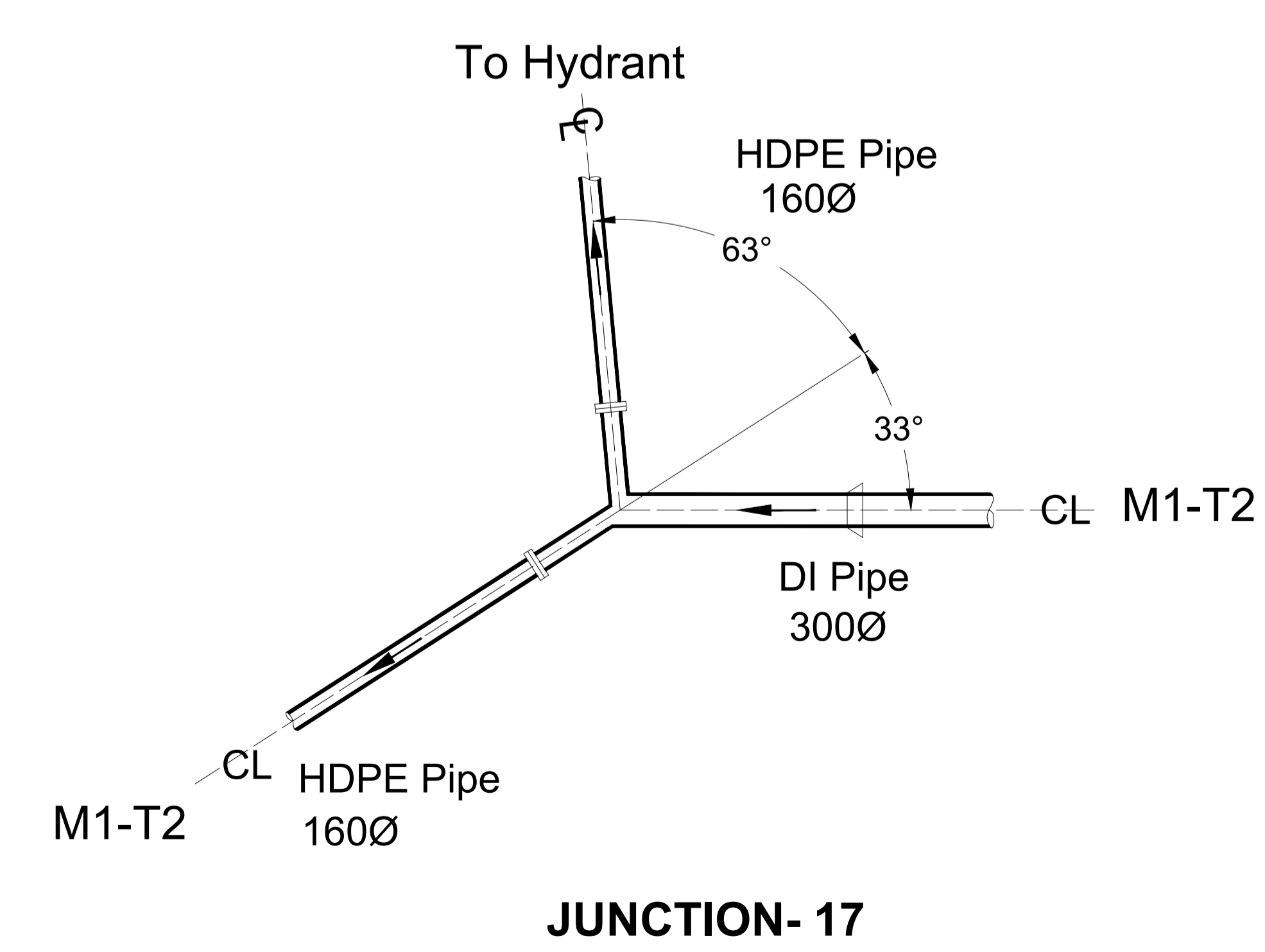
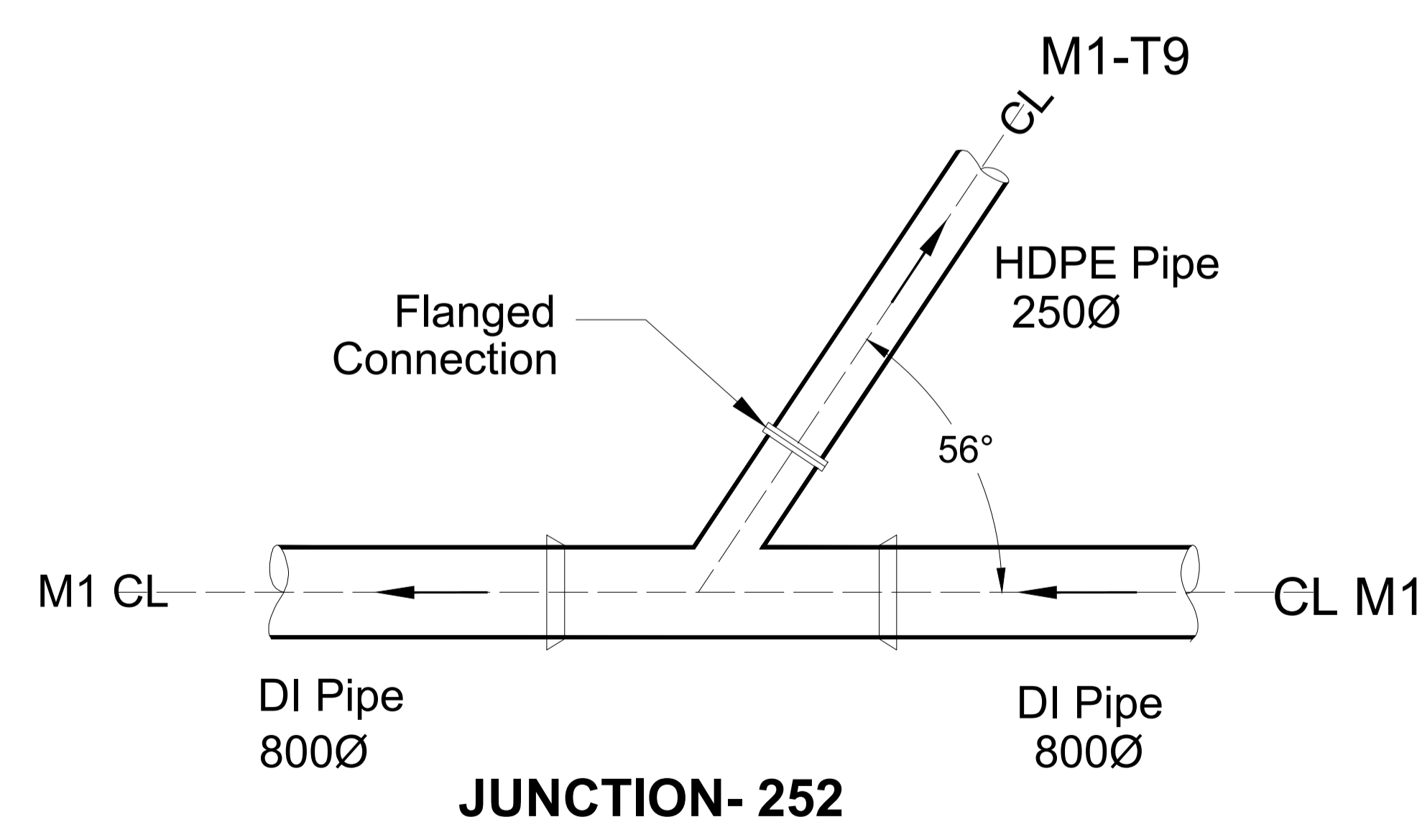
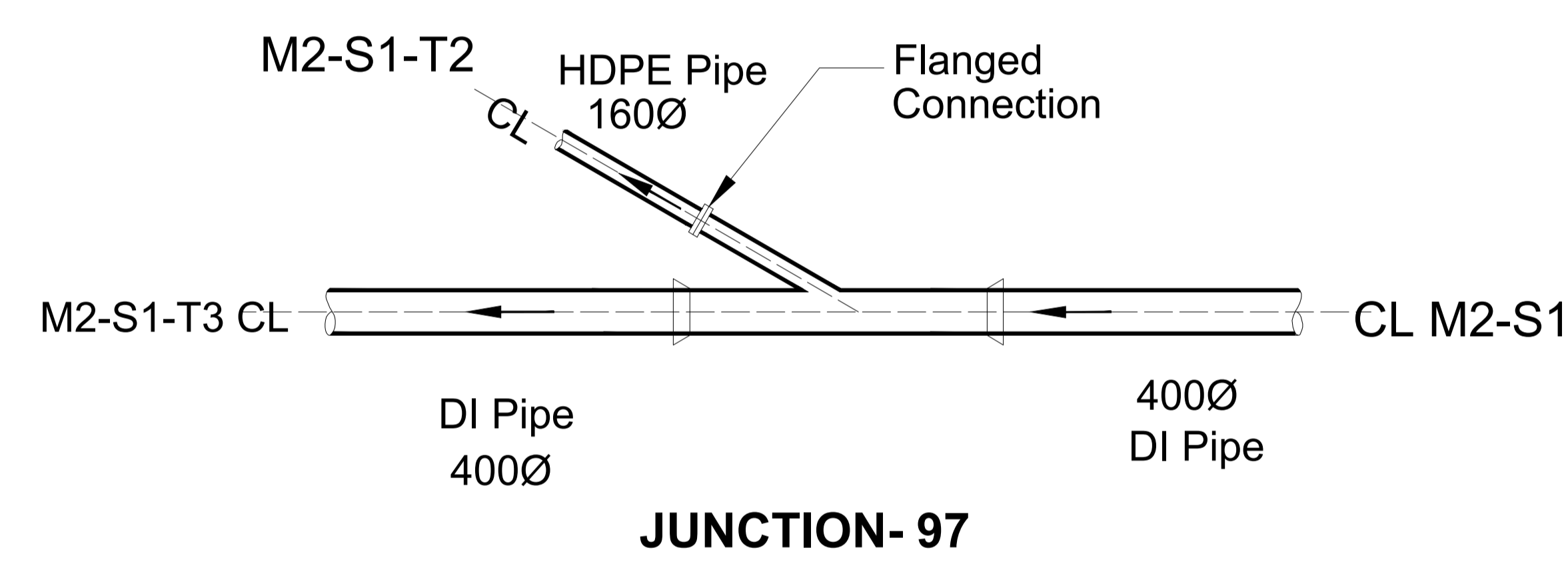
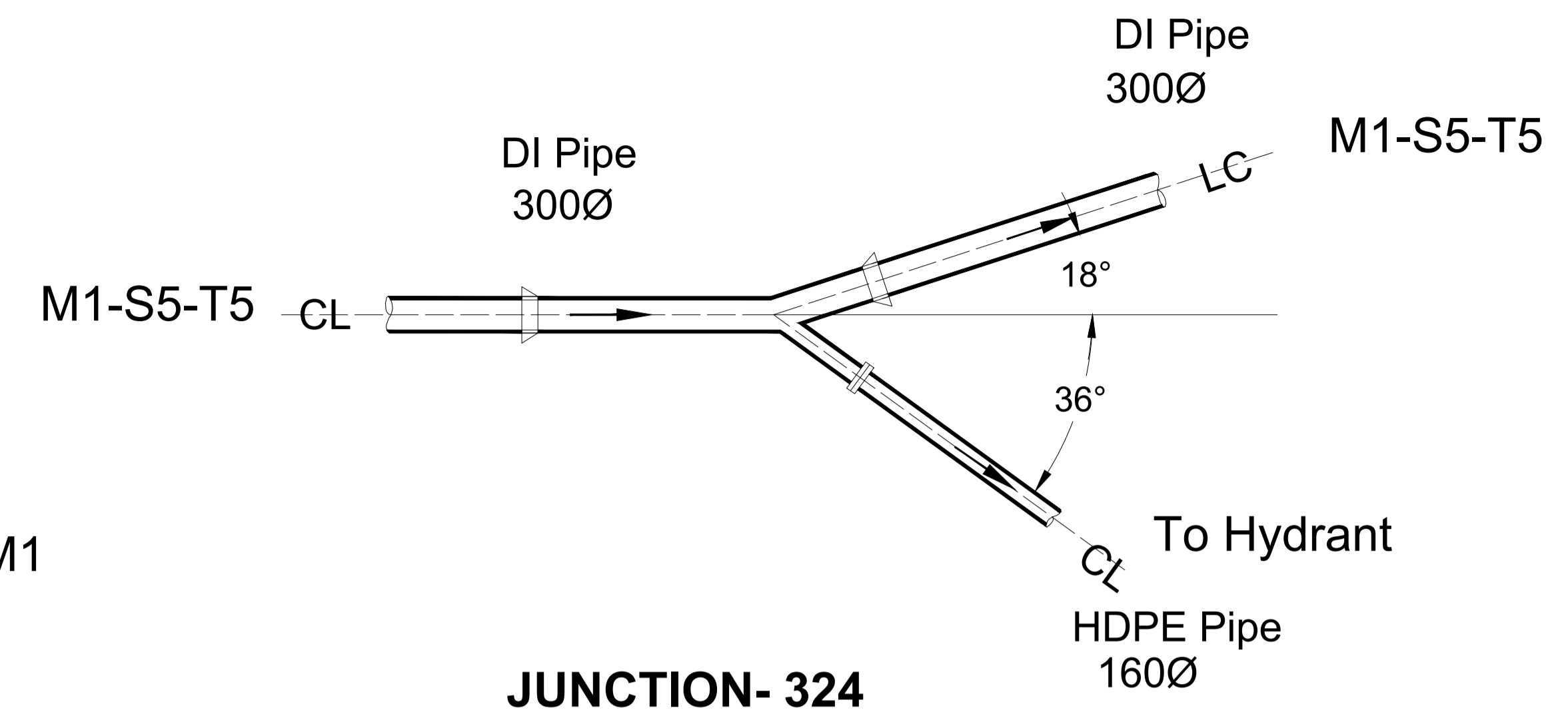
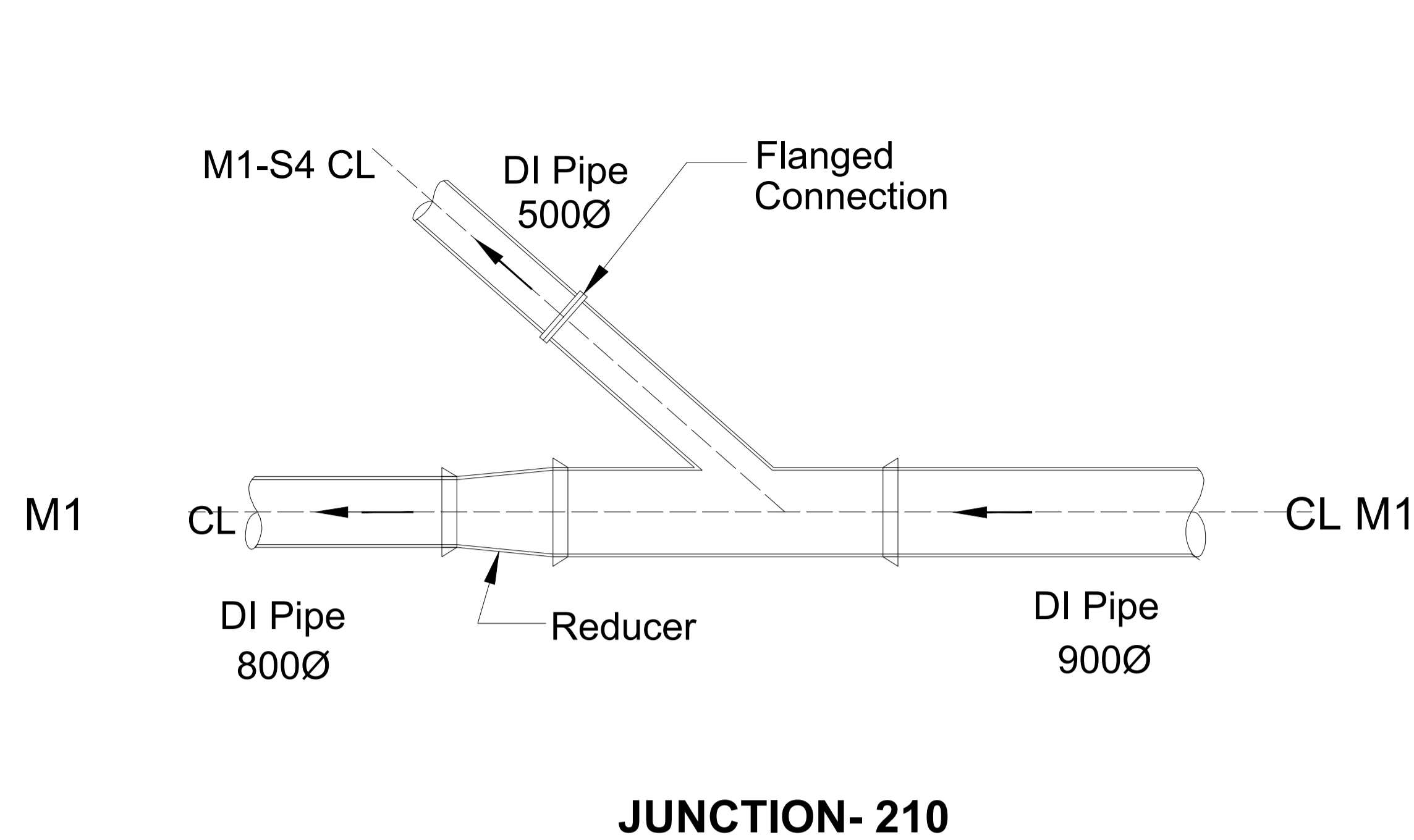
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : DETAILS OF THRUST BLOCKS @ T-JUNCTIONS
(DI TO DI/HDPE PIPES)

Consultants :


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 architects engineers consultants pvt.ltd.&
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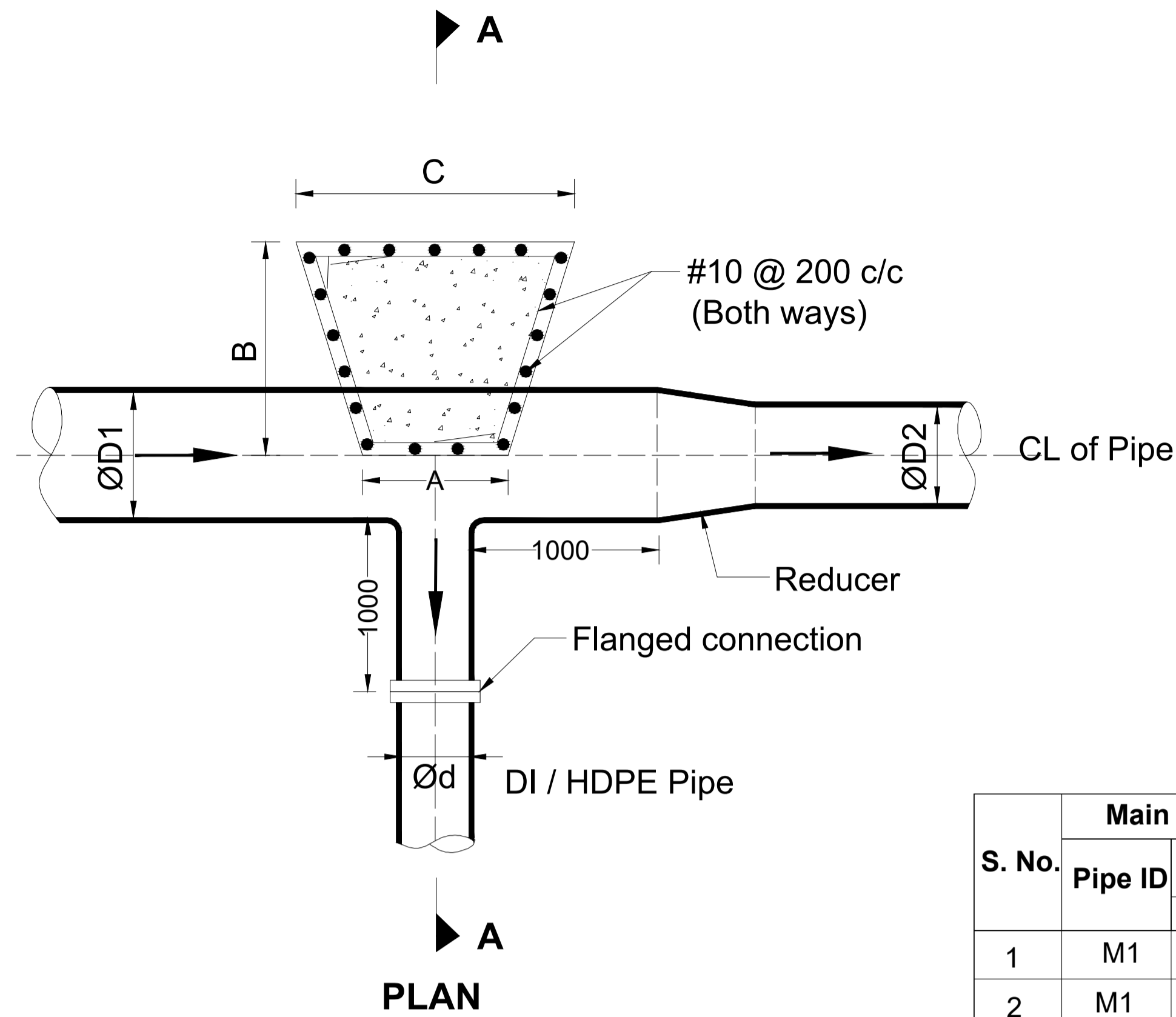
Client : REPUBLIC OF UGANDA
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Project : KABUYANDA IRRIGATION SCHEME

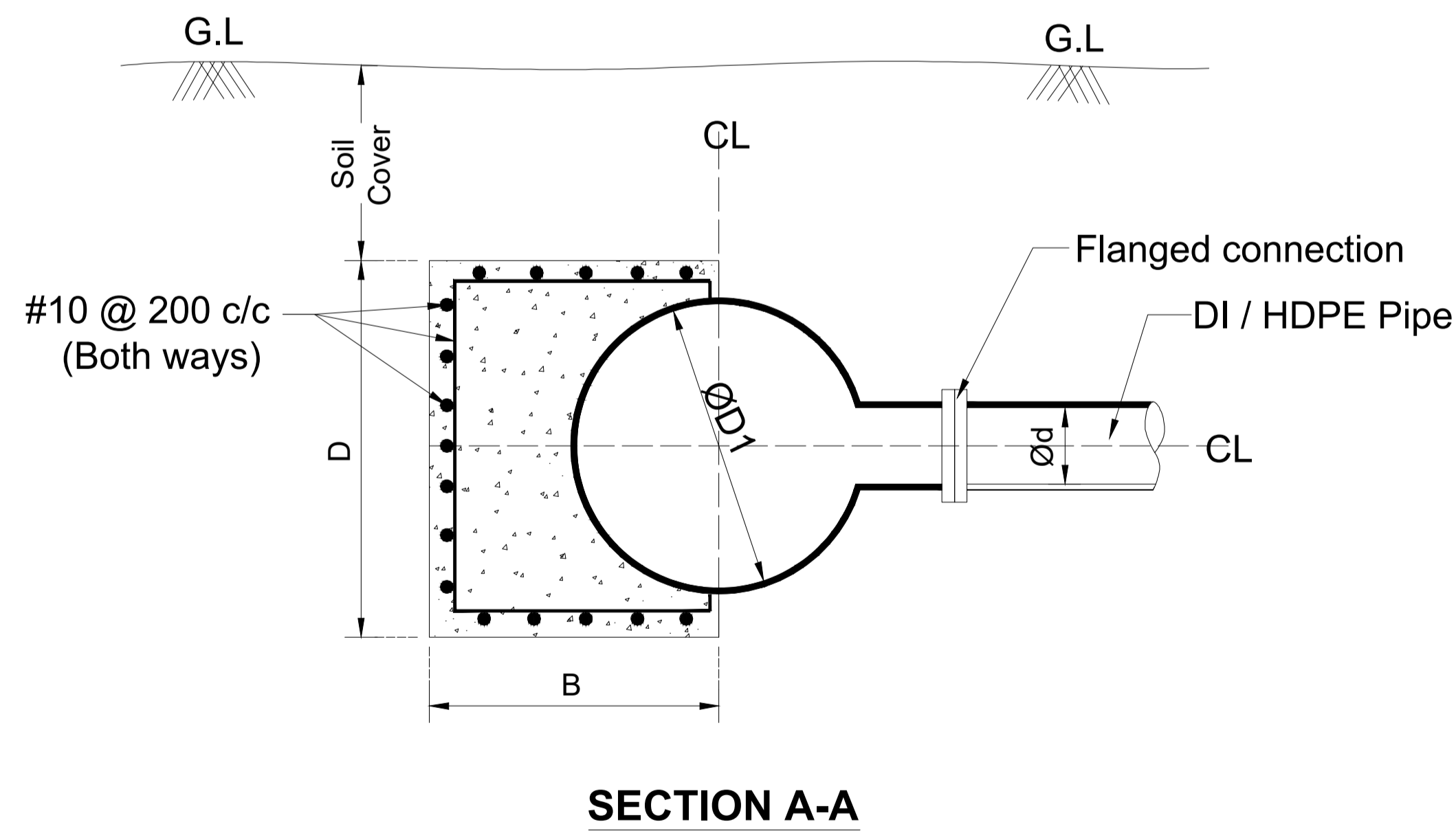
Title : DETAILS OF THRUST BLOCKS @ Y-JUNCTIONS
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S. No.	Main Pipe-1 (ØD1)			Main Pipe-2 (ØD2)			Branch Pipe (Ød)			Design Pressure (p) Mpa	Block Dimensions			
	Pipe ID	Dia.	Material	Pipe ID	Dia.	Material	Pipe ID	Dia.	Material		A	B	C	D
		mm			mm			mm			mm	m	m	m
1	M1	1300	MS	M1	1200	MS	M1-T3	350	DI	0.358	0.300	2.800	0.300	1.716
2	M1	1100	MS	M1	1100	MS	M1-T5	350	DI	0.620	0.500	2.000	0.600	1.516
3	M1	1100	MS	M1	1000	MS	M1-T6	300	DI	0.617	0.500	2.500	0.500	1.516
4	M1	1000	MS	M1	1000	MS	M1-T7	300	DI	0.569	0.500	2.500	0.500	1.416
5	M1	1000	MS	M1	1000	MS	M1-S2	600	DI	0.623	0.500	2.800	1.200	1.416
6	M1-T4	1300	MS	M1	1100	MS	M2	700	DI	0.590	6.500	1.916	-	1.916



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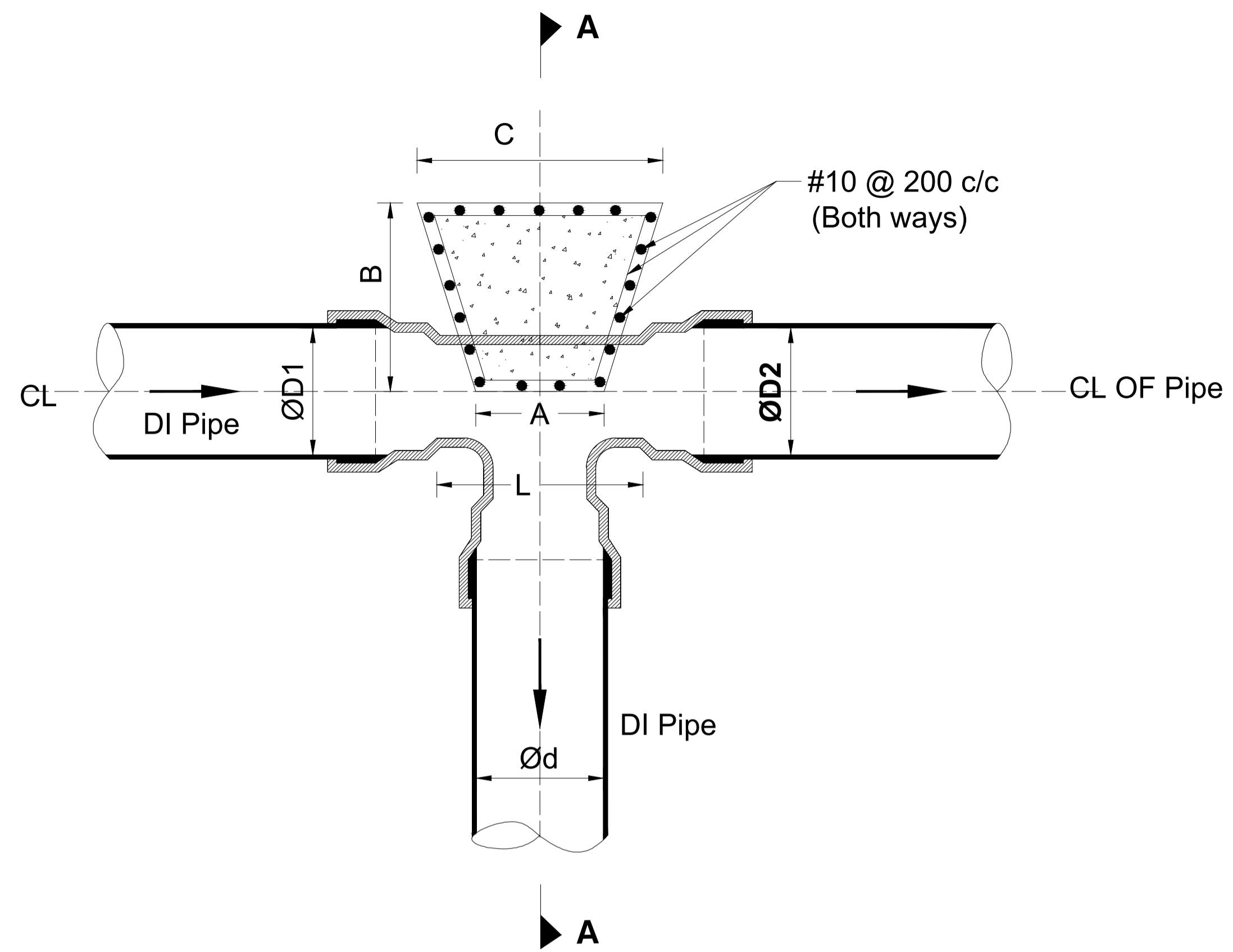
Client : REPUBLIC OF UGANDA
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Project : KABUYANDA IRRIGATION SCHEME

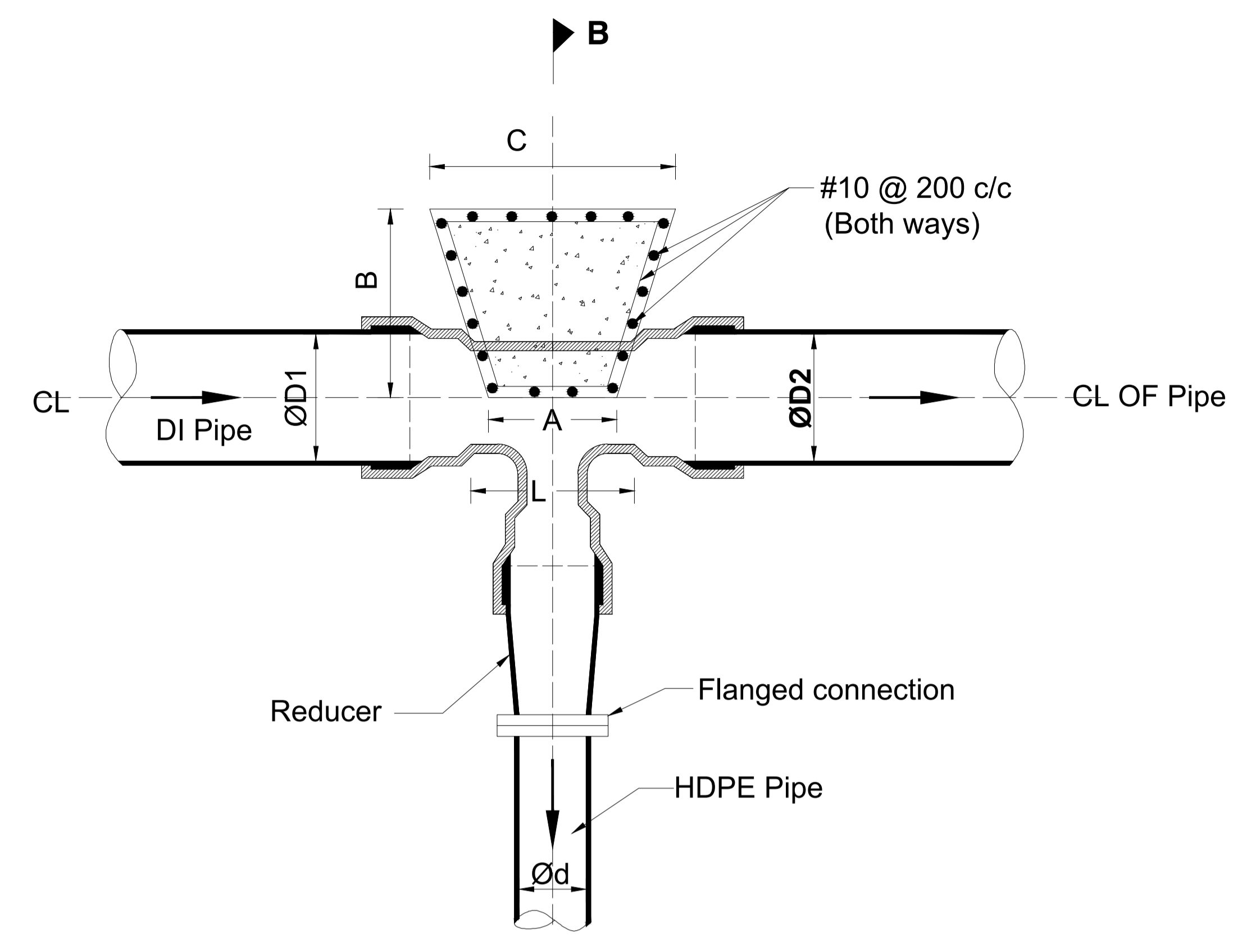
Title : TYPICAL DETAILS OF THRUST BLOCK @ T-BENDS
(MS TO DI / HDPE PIPES)

Consultants :

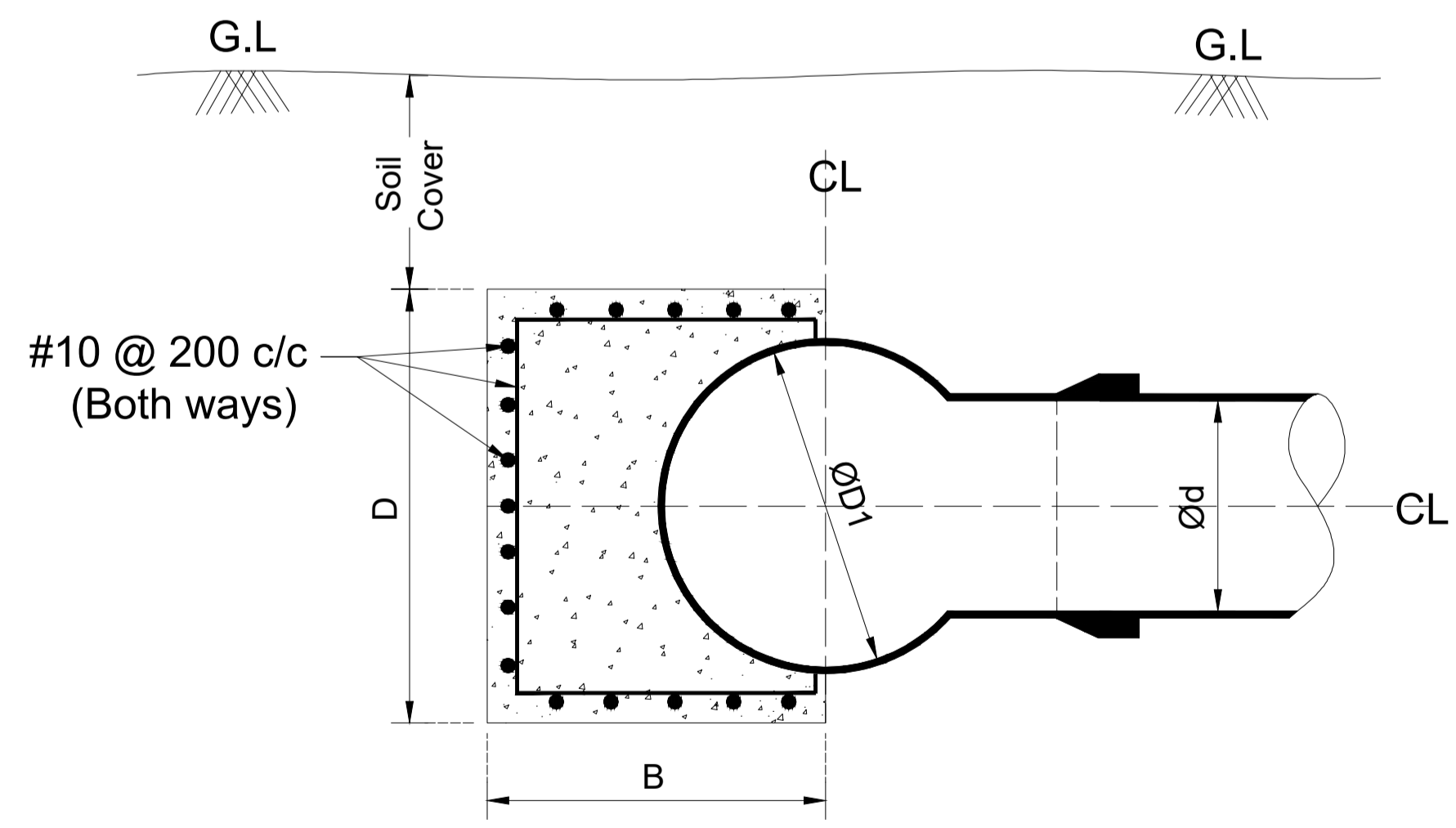

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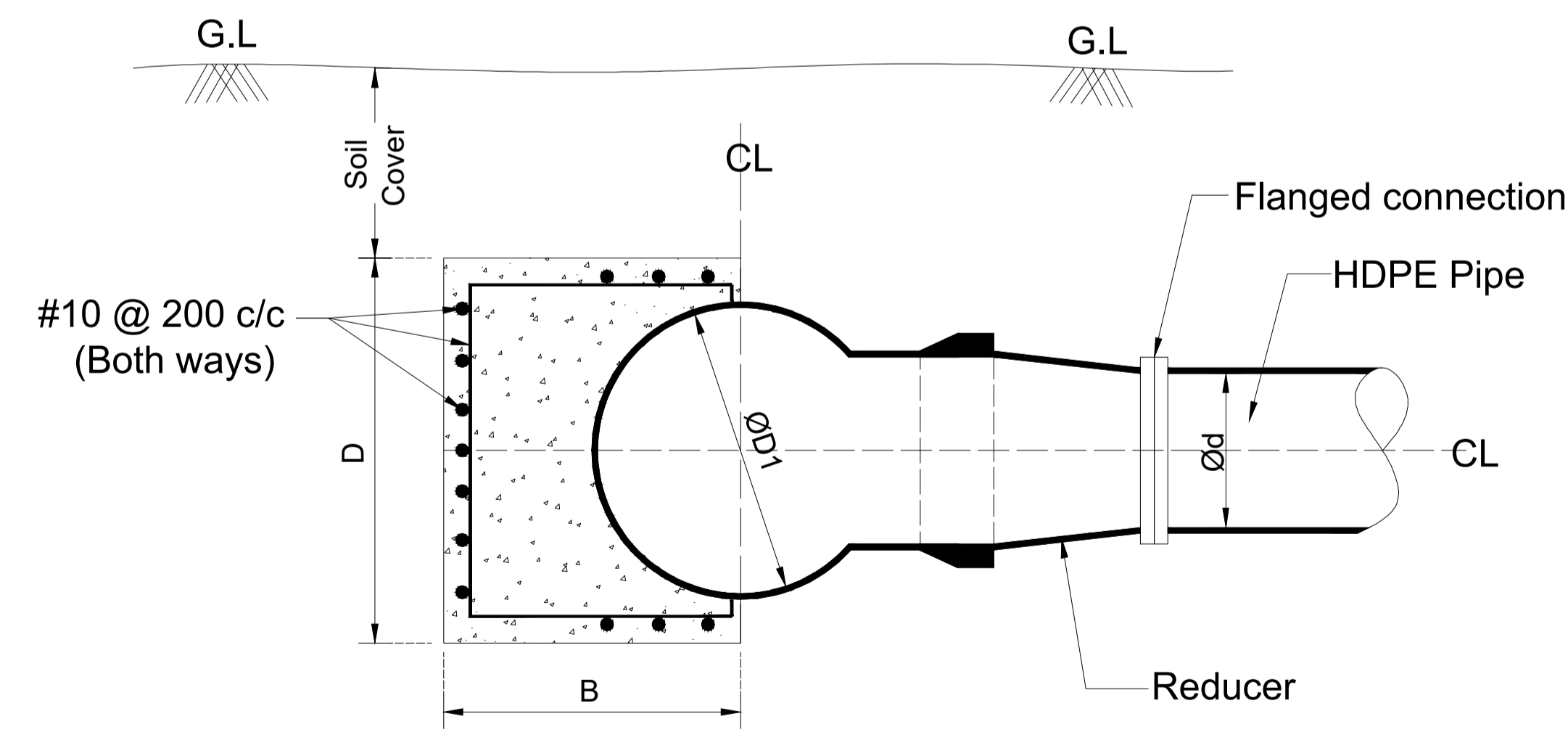
PLAN-1
(From DI to DI Pipes)



PLAN-2
(From DI to HDPE Pipes)



SECTION A-A



SECTION B-B

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Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : TYPICAL DETAILS OF THRUST BLOCK @ T-BENDS
(DI TO DI/HDPE PIPES)

Consultants :


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LIST OF THRUST BLOCK @ T-BENDS

S. No.	MAIN PIPE -1 (ØD1)			MAIN PIPE -2 (ØD2)			BRANCH PIPE (Ød)			Design Pressure (p) Mpa	Minimum Clearance (L) m	Block Dimensions			
	Pipe ID	Dia. mm	Material	Pipe ID	Dia. mm	Material	Pipe ID	Dia. mm	Material			A m	B m	C m	D m
1	M1	900	DI	M1	900	DI	M1-S3	300	DI	0.727	0.400	0.300	2.000	0.500	1.322
2	M1	800	DI	M1	700	DI	M1-T11	225	HDPE	0.554	0.465	0.350	2.200	0.350	1.221
3	M1	700	DI	M1-S5	700	DI	M1-S5-T1	250	HDPE	0.847	0.400	0.300	2.000	0.400	1.118
4	M2	700	DI	M2-S1	600	DI	M2-S2	500	DI	0.643	0.690	0.600	2.500	1.200	1.118
5	M1-S5	700	DI	M1-S5	600	DI	M1-S5-T2	300	DI	0.838	0.690	0.600	2.500	1.000	1.118
6	M2-S1	600	DI	M2-S1	400	DI	M2-S1-T1	350	DI	0.571	0.570	0.470	1.600	0.700	1.015
7	M1-S2	600	DI	M1-S2	600	DI	M1-S2-T1	300	DI	0.630	0.455	0.350	1.500	0.600	1.015
8	M1-S2	600	DI	M1-S2	450	DI	M1-S2-T2	400	DI	0.630	0.625	0.525	2.600	1.000	1.015
9	M1-S2	600	DI	M1-S2-T5	300	DI	M1-S2-T4	300	DI	0.705	0.455	0.350	1.800	0.600	1.015
10	M1-S5	600	DI	M1-S5	450	DI	M1-S5-T3	350	DI	0.587	0.375	0.275	2.000	0.600	1.015
11	M2-S2	500	DI	M2-S2-T1	350	DI	M2-S2-T2	350	DI	0.586	0.505	0.400	2.000	0.800	0.914
12	M1-S4	500	DI	M1-S4	500	DI	M1-S4-T1	250	HDPE	0.682	0.505	0.400	1.500	0.500	0.914
13	M1-S4	500	DI	M1-S4	500	DI	M1-S4-T2	300	DI	0.682	0.450	0.350	2.000	0.600	0.914
14	M1-S4	500	DI	M1-S4	400	DI	M1-S4-T3	350	DI	0.861	0.505	0.400	3.000	1.000	0.914
15	M1-S2-T2	450	DI	M1-S2-T3	300	DI	M1-S2-T2.2	300	DI	0.688	0.445	0.340	2.000	0.600	0.863
16	M1-S5	450	DI	M1-S5-T4	300	DI	M1-S5-T5	300	DI	0.825	0.445	0.340	2.000	0.800	0.863
17	M1-T3	350	DI	M1-T3	300	DI	M1-T3.1	160	HDPE	0.380	0.440	0.440	0.340	1.300	0.500
18	M1-T4	350	DI	M1-T4.1	250	HDPE	M1-T4.2	250	HDPE	0.631	0.380	0.280	1.500	1.200	0.687
19	M1-S5-T3	350	DI	M1-S5-T3	300	DI	M1-S5-T3.1	225	HDPE	0.753	0.380	0.280	1.300	0.500	0.762
20	M2-S2-T1	300	DI	M2-S2-T1.1	250	HDPE	M2-S2-T1.2	160	HDPE	0.538	0.380	0.280	1.200	0.500	0.711
21	M1-T7	300	DI	M1-T7.1	250	HDPE	M1-T7.2	250	HDPE	0.526	0.440	0.350	1.500	0.700	0.687
22	M1-S2-T2	300	DI	M1-S2-T2.1	300	DI	M1-S2-T2.2	225	HDPE	0.680	0.380	0.280	1.200	0.500	0.711
23	M1-S2-T3	300	DI	M1-S2-T3.1	250	HDPE	M1-S2-T3.2	250	HDPE	0.763	0.440	0.350	1.500	0.600	0.711
24	M1-S5-T3	300	DI	M1-S5-T3	300	DI	M1-S5-T3.2	140	HDPE	0.888	0.260	0.160	1.500	0.300	0.711
25	M1-S5-T3	300	DI	M1-S5-T3	300	DI	M1-S5-T3.3	140	HDPE	0.888	0.260	0.160	1.500	0.300	0.711
26	M1-S5-T4	300	DI	M1-S5-T4.1	300	DI	M1-S5-T4.2	180	HDPE	0.831	0.380	0.280	1.200	0.500	0.711
27	M1-S5-T5	300	DI	M1-S5-T5	250	HDPE	M1-S5-T5.2	140	HDPE	0.918	0.440	0.350	2.200	0.700	0.711
28	M1-S5-T4	300	DI	M1-S5-T4.1	200	HDPE	M1-S5-T4.3	180	HDPE	0.851	0.440	0.350	2.000	1.200	0.630

NOTES

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED.
2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
3. THE GRADE OF CONCRETE IS C35.
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.
5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.

Scale Horizontal 1 : 1000
Vertical 1 : 100

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

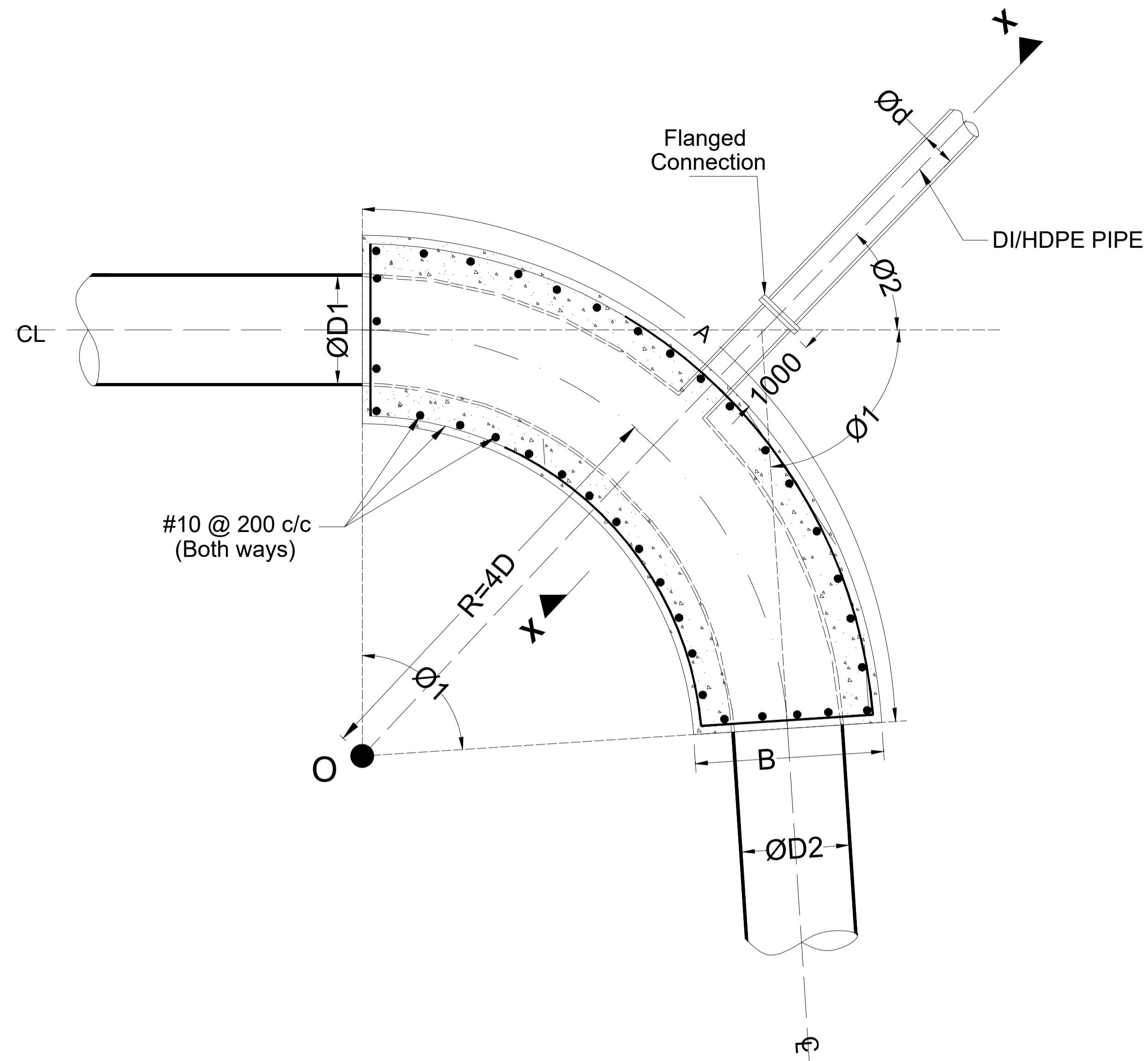
Project : KABUYANDA IRRIGATION SCHEME

Title : LIST OF THRUST BLOCK @ T-BENDS
(DI TO DI/HDPE PIPES)

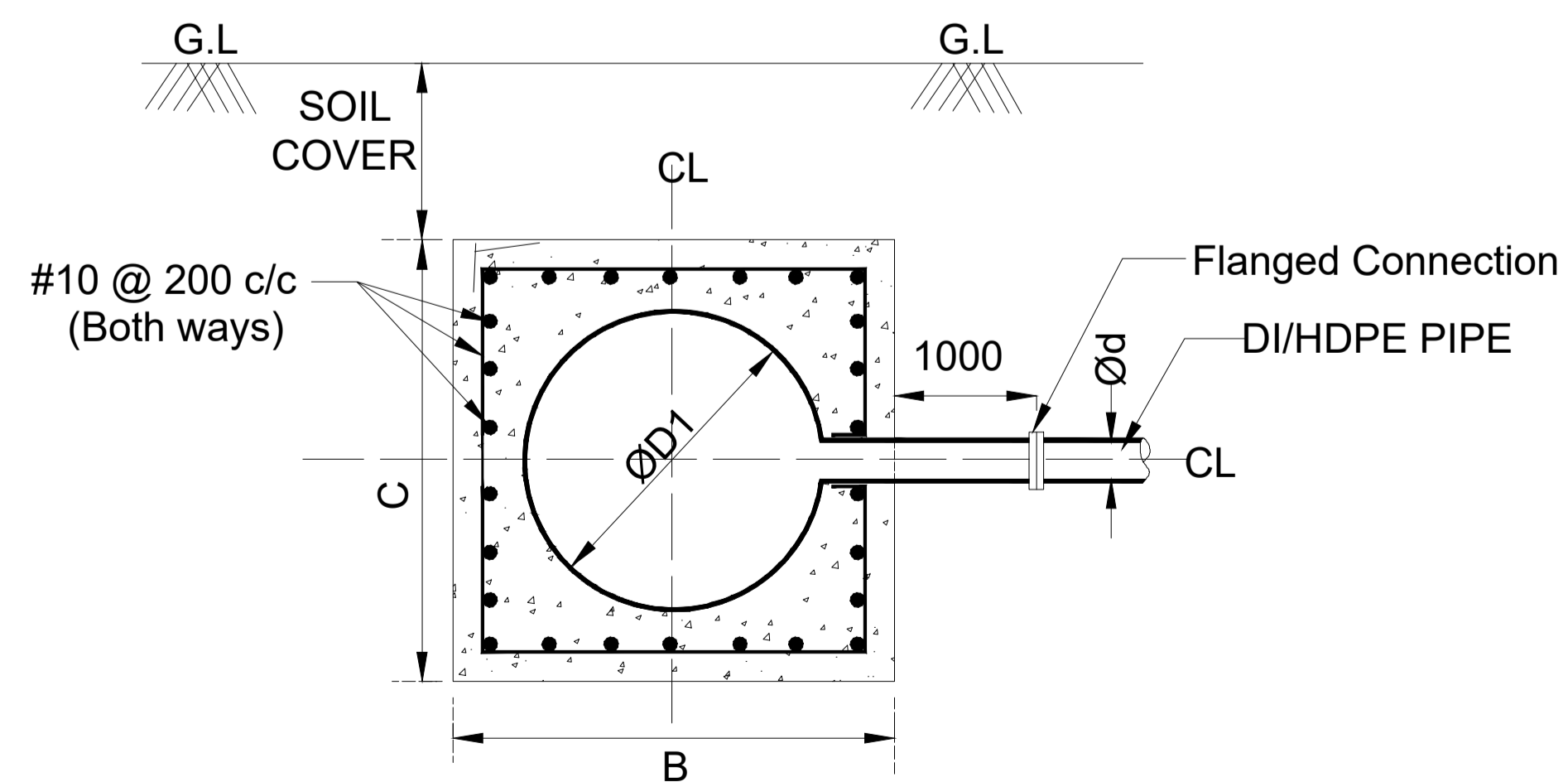
Consultants :  **aarvee associates**
architects engineers consultants pvt.ltd &
Ravali Road, Shivaji Nagar, Bangalore-560022, India
Tel: +91-80-23721533, Fax: +91-80-23721577
e-mail: irrigation@aarvee.net, web: www.aarvee.net

LIST OF Y - JUNCTIONS FOR MS TO DI/HDPE PIPES

Main Pipe- (ØD1)			Main Pipe- (ØD2)				Branch Pipe- (Ød)				Design Pressure (p)	Block Dimensions		
Pipe ID	Dia.	Material	Pipe ID	Dia.	Material	Deflection Angle (Ø1)	Pipe ID	Dia.	Material	Deflection Angle (Ø2)		A	B	C
	mm			mm		Deg.		mm		Deg.	Mpa	m	m	m
M1	1300	MS	M1	1300	MS	90	M1-S1	500	DI	45	0.344	4.000	1.916	1.916



PLAN
(Y BEND FOR MS TO MS/DI/HDPE PIPES)



SECTION : X-X

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
3. THE GRADE OF CONCRETE IS C35.
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.
5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.

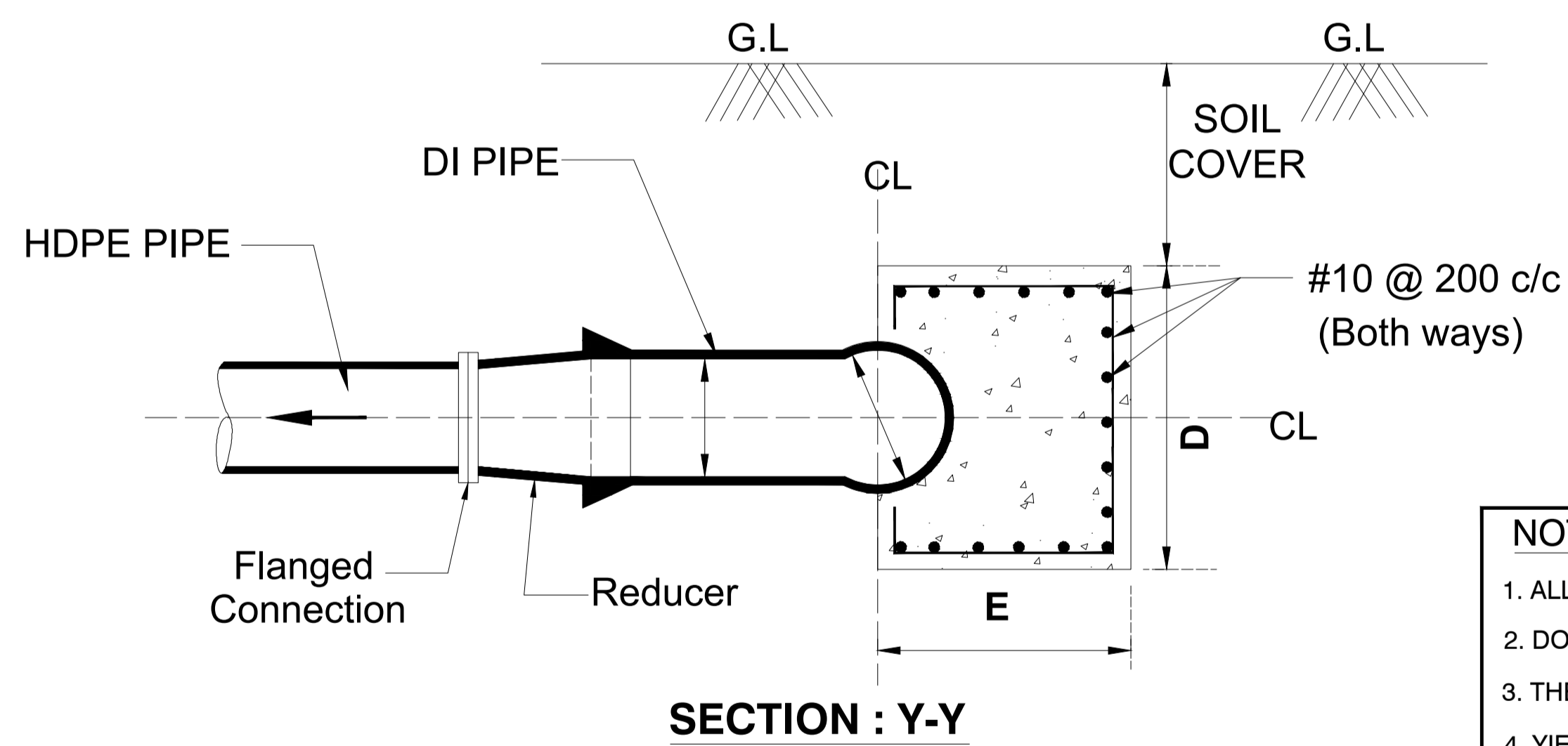
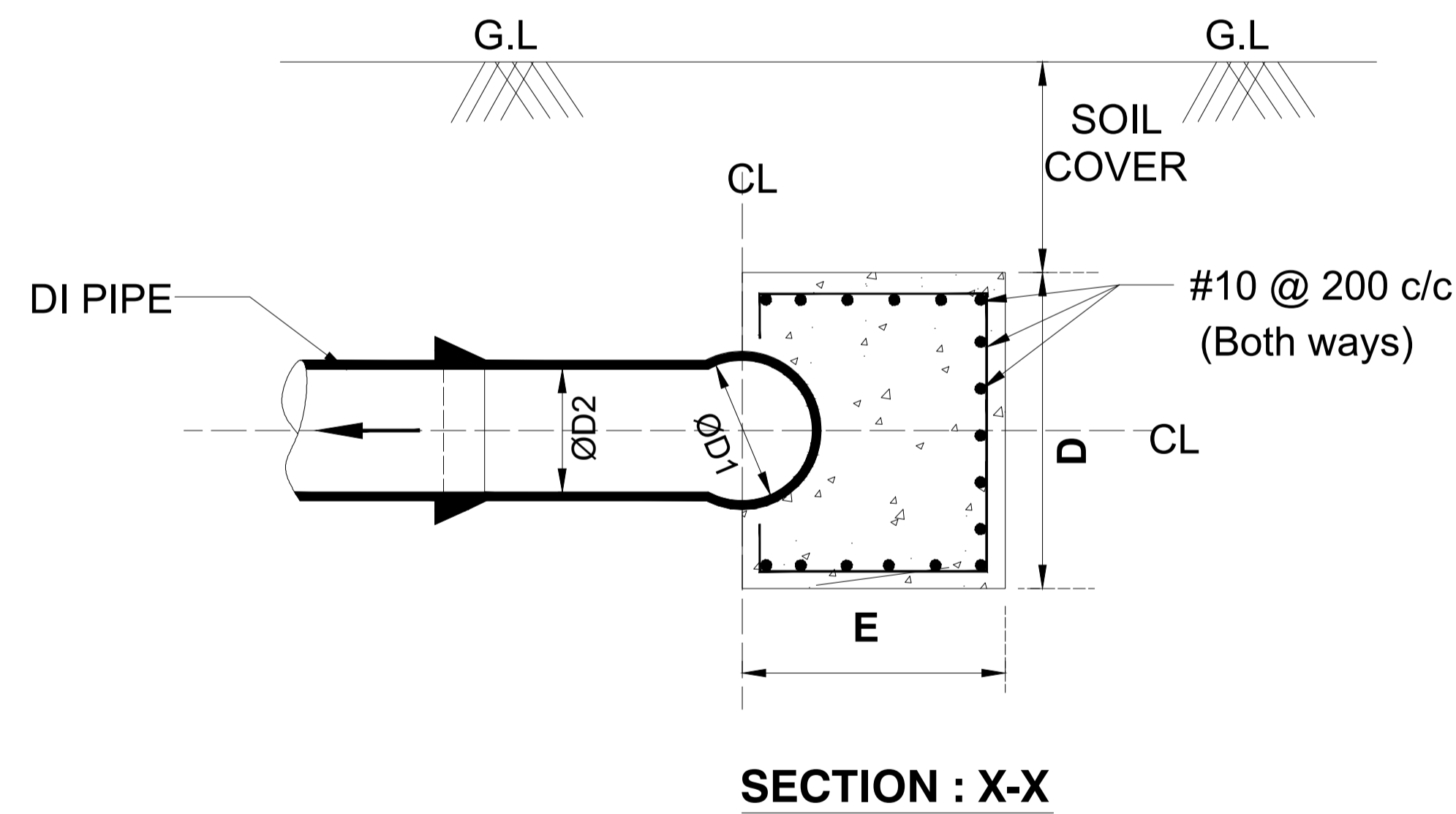
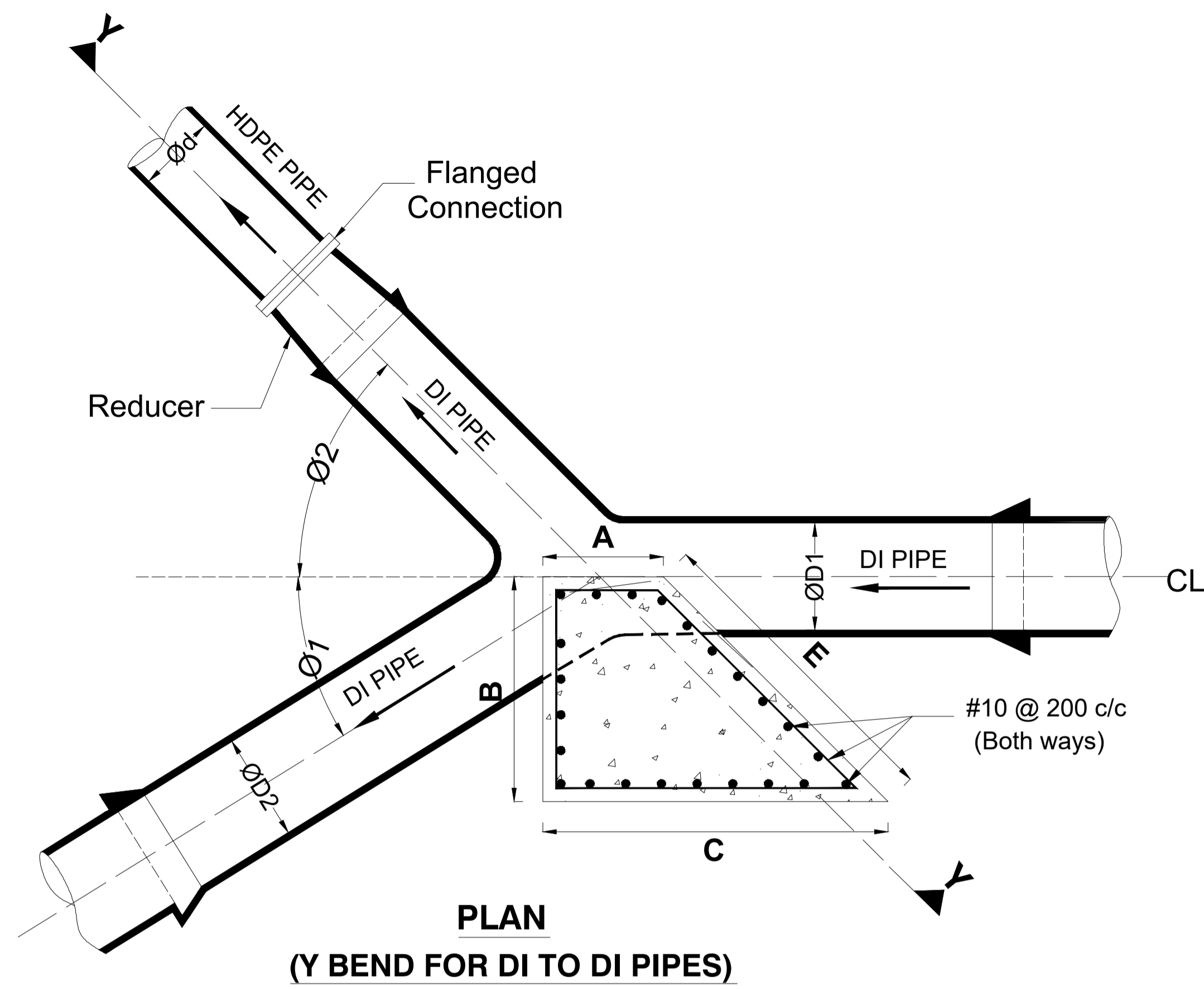
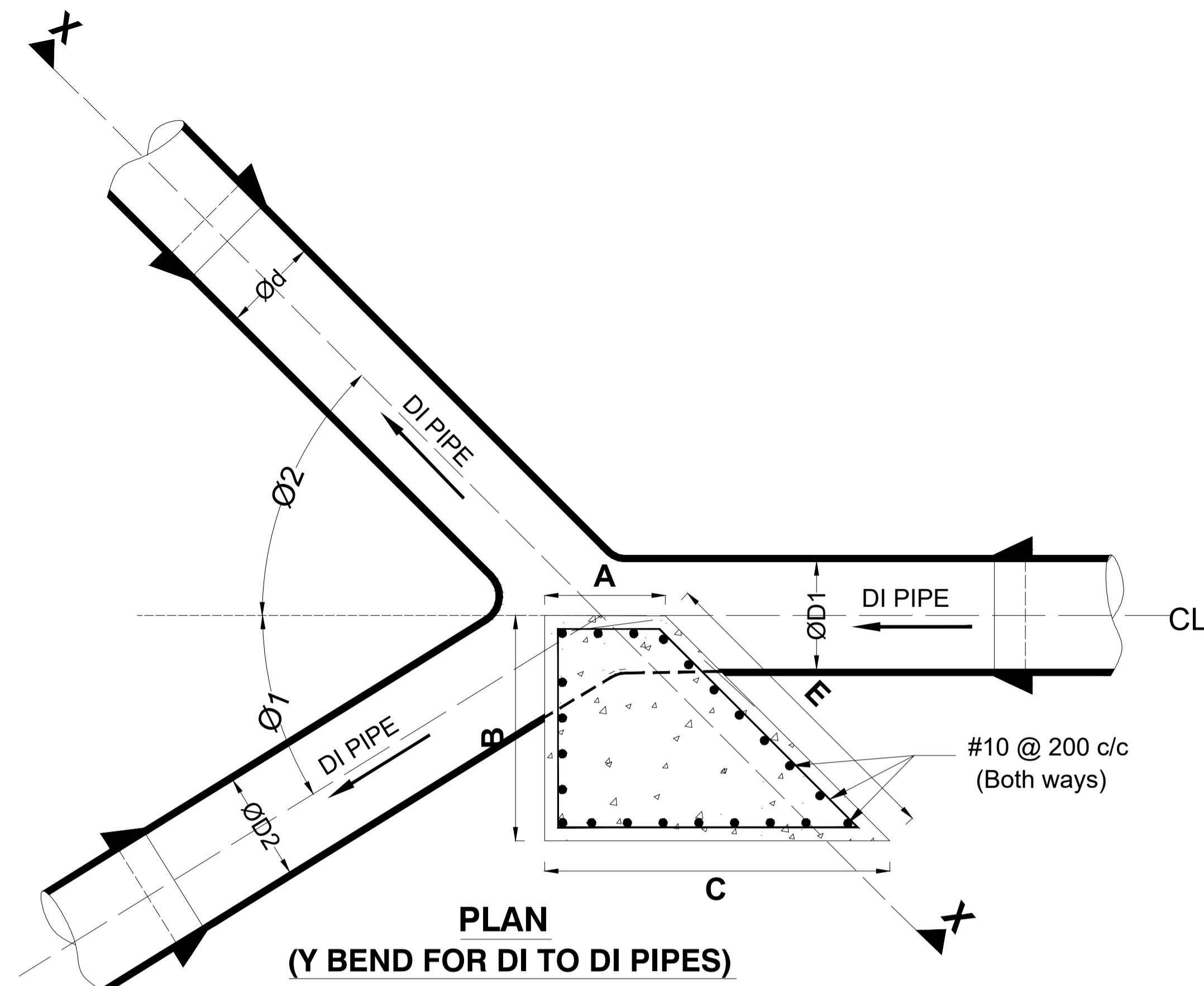
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **TYPICAL DETAILS OF THRUST BLOCK**
@ Y-JUNCTIONS
(BRANCHING FROM MS TO DI / HDPE PIPE)

Consultants :


aarvee associates
 architects engineers consultants pvt.ltd.&
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
 e-mail: irrigation@aarvee.net; web:www.aarvee.net



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
 2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
 3. THE GRADE OF CONCRETE IS C35.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.
 5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.

LIST OF Y - JUNCTIONS FOR DI TO DI / HDPE PIPES

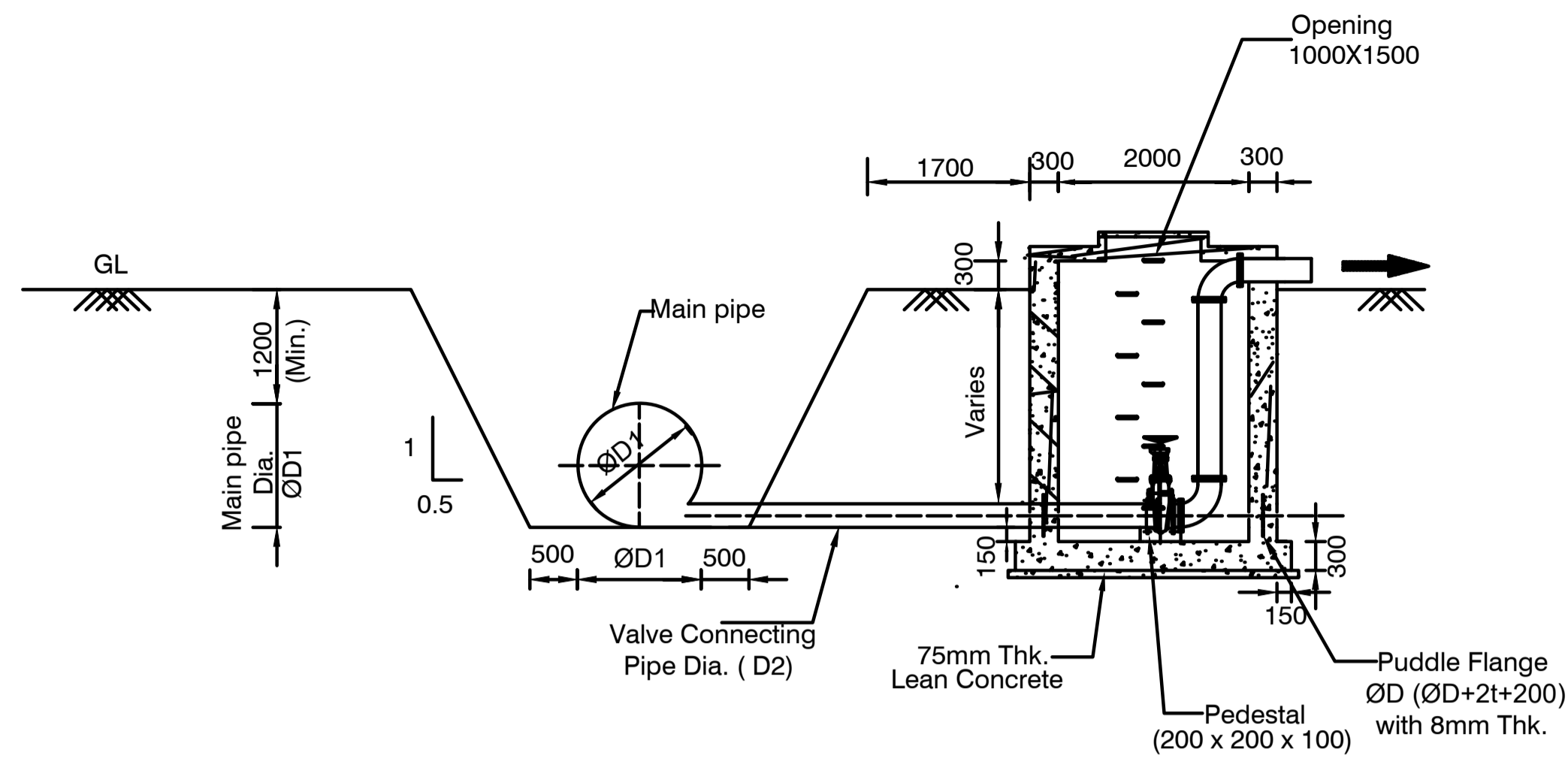
S. No.	Main Pipe- (ØD1)			Main Pipe- (ØD2)			Branch Pipe- (Ød)				Design Pressure (p) Mpa	Minimum Clearance (L) Mpa	Block Dimensions					
	Pipe ID	Dia.	Material	Pipe ID	Dia.	Material	Deflection Angle (Ø1) Deg.	Pipe ID	Dia.	Material			Deflection Angle (Ø2) Deg.	A	B	C	D	E
		mm			mm				mm			m	m	m	m	m		
1	M1	900	DI	M1	800	DI	90	M1-S4	500	DI	45	0.708	1.310	0.800	1.500	1.000	1.322	1.513
2	M1	800	DI	M1	800	DI	90	M1-T9	250	HDPE	45	0.453	1.310	0.300	2.500	0.300	1.121	2.500
3	M2-S1	400	DI	M2-S1-T1	400	DI	90	M2-S1-T2	160	HDPE	45	0.517	0.970	0.300	2.500	0.300	0.713	2.500

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

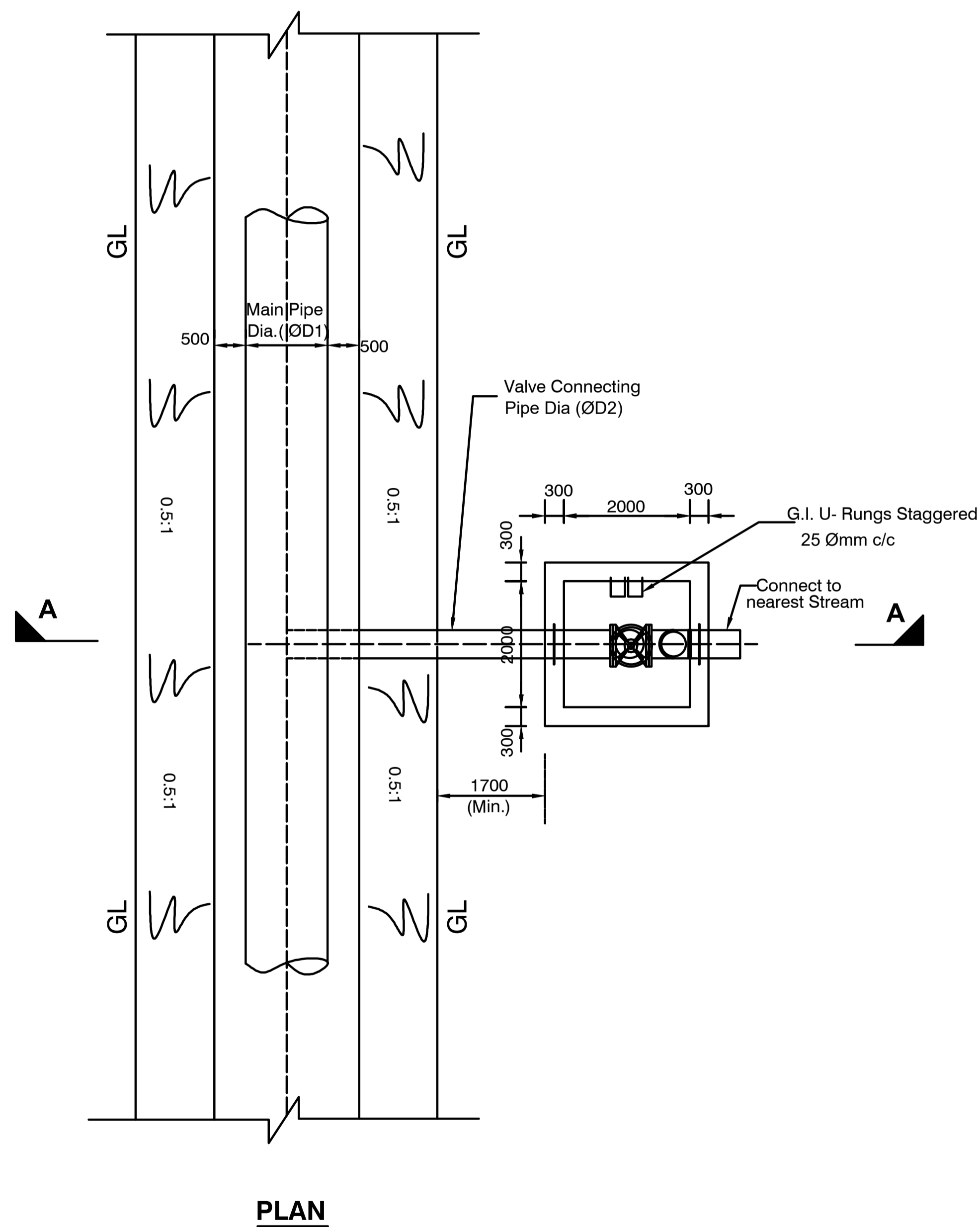
Project : KABUYANDA IRRIGATION SCHEME

Title : TYPICAL DETAILS OF THRUST BLOCK
@ Y-JUNCTIONS
(BRANCHING FROM DI TO DI / HDPE PIPE)

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web: www.aarvee.net



SECTION: A-A



PLAN

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
3. DRAINED WATER FROM SCOUR VALVES SHALL BE SUITABLY CONNECTED TO THE STREAMS AS PER SITE CONDITIONS.
4. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20.

VALVE SIZES TABLE FOR MS PIPES:

S.No.	Main Pipe Dia. (ØD1)	Valve Pipe Dia. (ØD2)	Chamber Size	
			Length	Width
1	1300	300	2000	2000
2	1200	300	2000	2000
3	1100	300	2000	2000
4	1000	250	2000	2000

LIST OF SCOUR VALVE

S. No.	Pipe ID	Chainage	Pipe Dia.	Valve Size	Pipe Invert Level	Pressure Rating
		m	mm	mm	m	
1	M1	0+137	1300	300	+1334.39	PN 6
2	M1	0+580	1300	300	+1331.19	PN 6
3	M1	0+800	1300	300	+1330.16	PN 6
4	M1	1+800	1300	300	+1322.11	PN 6
5	M1	2+526	1300	300	+1330.44	PN 6
6	M1	2+907	1300	300	+1327.80	PN 6
7	M1	4+686	1100	250	+1303.15	PN 6
8	M1	4+900	1100	250	+1295.33	PN 10
9	M1	5+850	1000	200	+1302.55	PN 6
10	M1	6+400	1100	200	+1301.71	PN 6
11	M1	6+906	1100	200	+1298.19	PN 10

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF SCOUR VALVE
CHAMBER FOR MS PIPES
(1000 TO 1300 mm Dia.)**

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

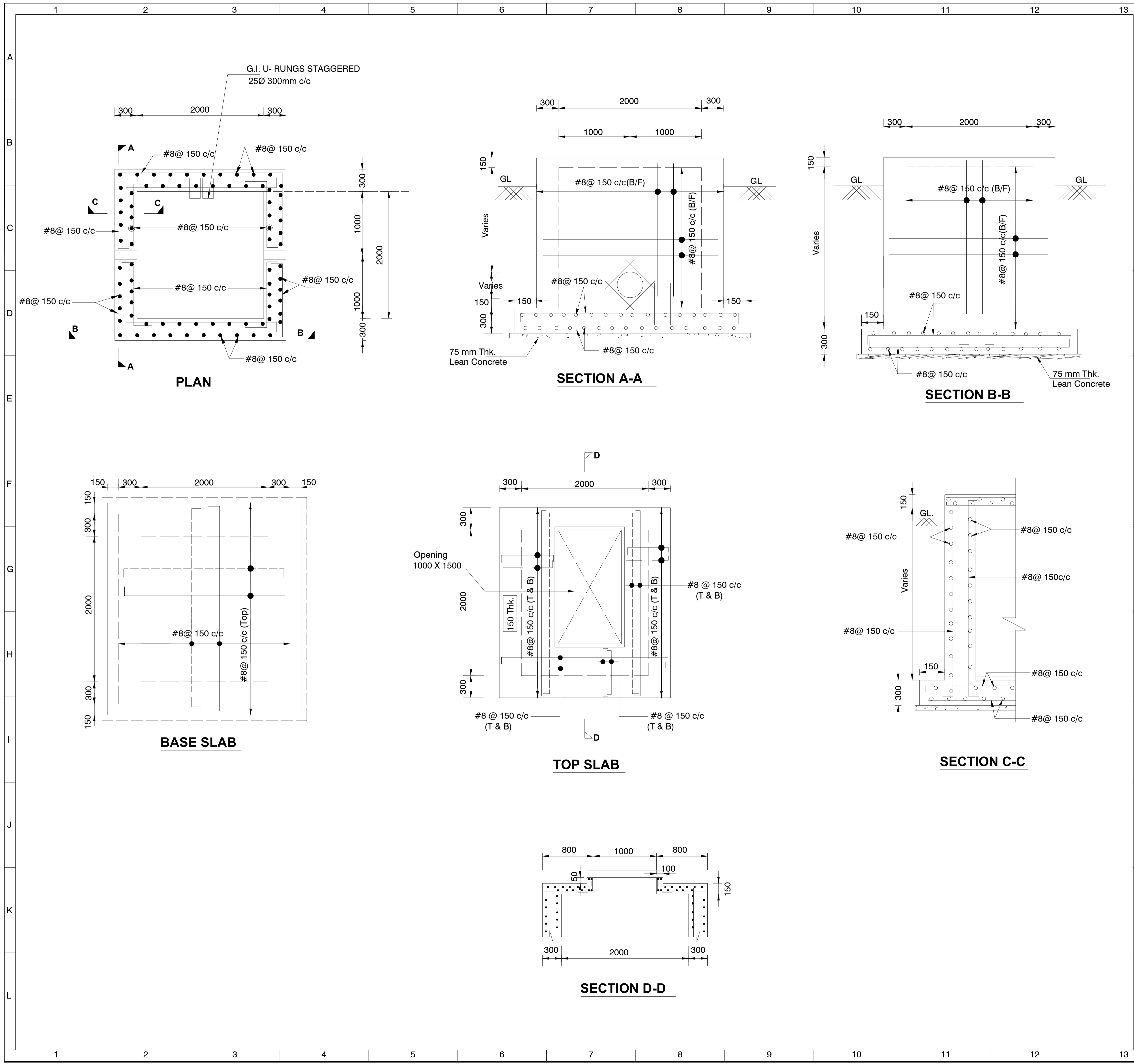
- NOTE:**
1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
 2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
 3. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm
 5. LAP LENGTHS / DEVELOPMENT LENGTHS SHALL BE 50 x DIA. OF BAR.
 6. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE FOR WALLS & BASE SLAB : 50 mm , TOP SLAB : 15 mm.
 7. BACK FILLING AROUND THE CHAMBER SHALL BE WITH SOIL OF $\phi=32\backslash 55^\circ$

LEGEND:

B/F : BOTH FACES

--- TOP BARS(T)

— BOTTOM BARS(B)



Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATON SCHEME**

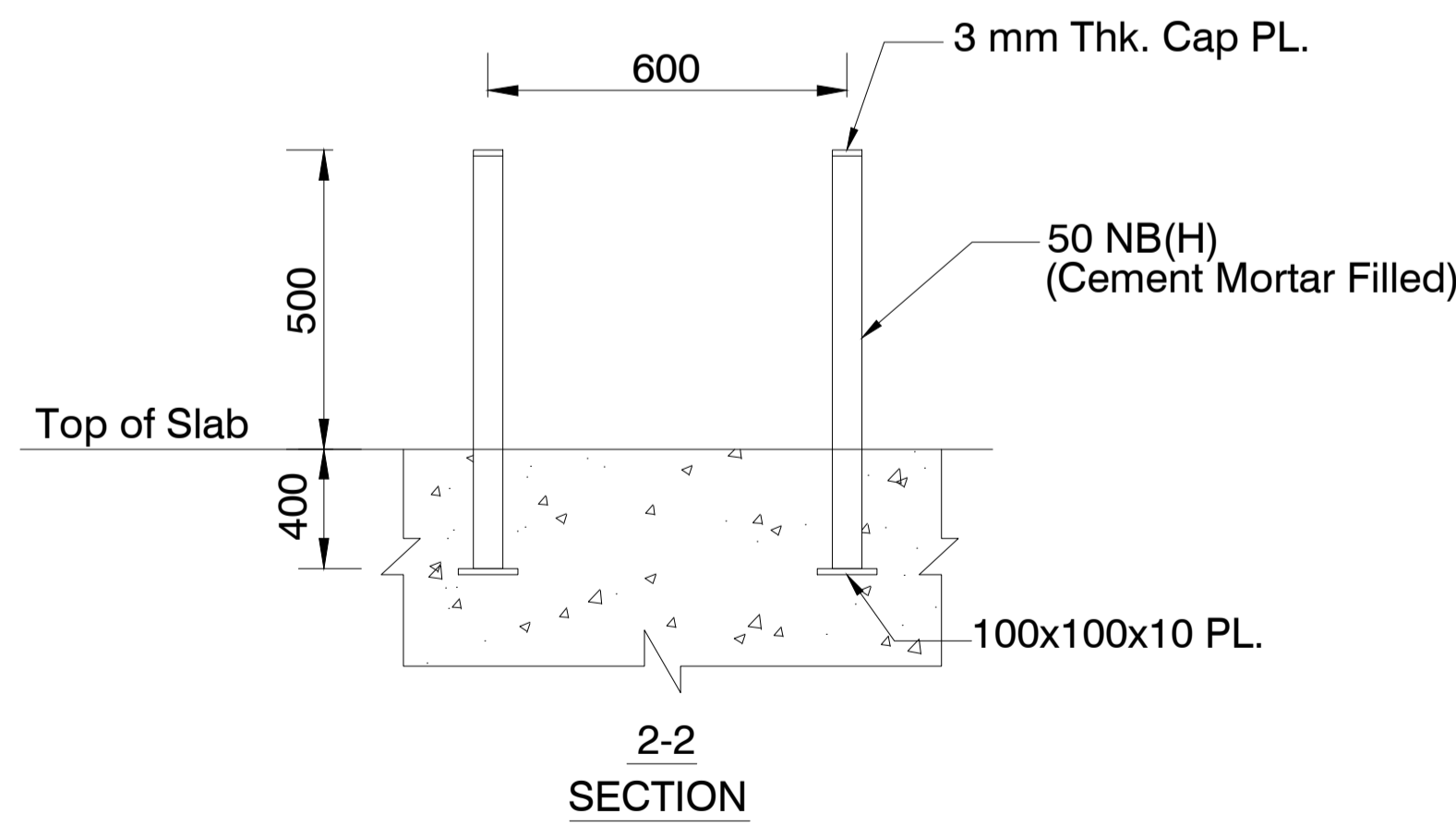
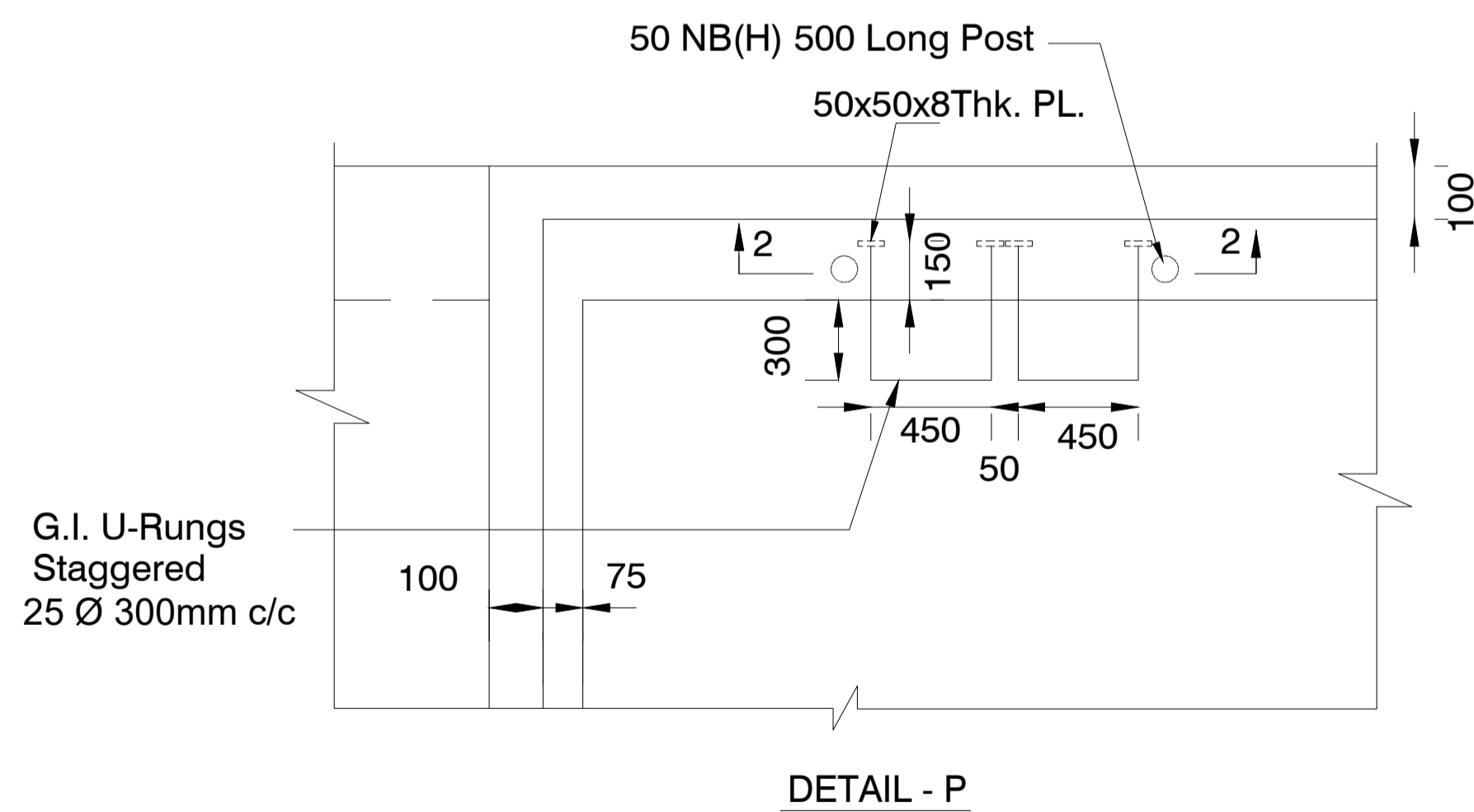
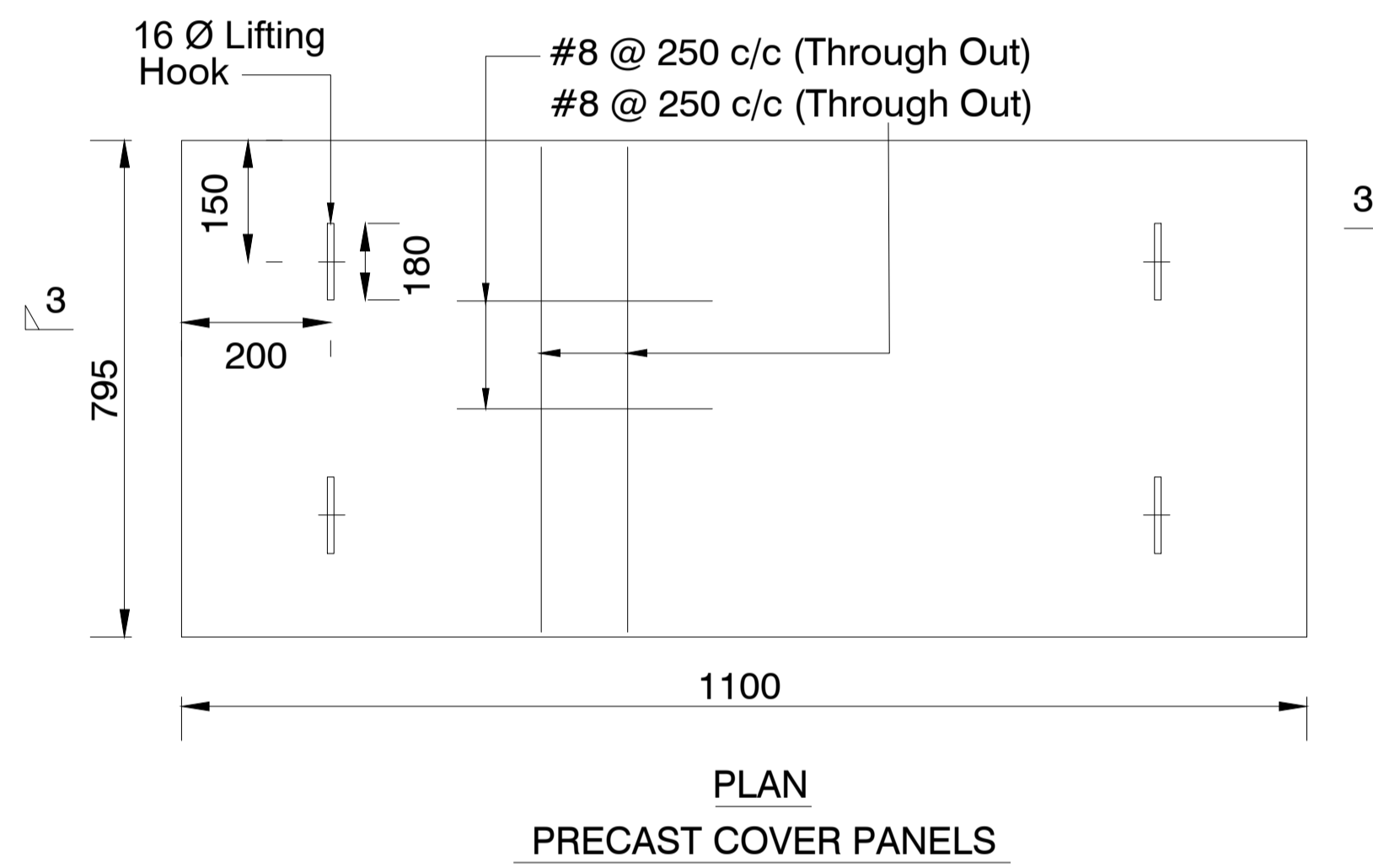
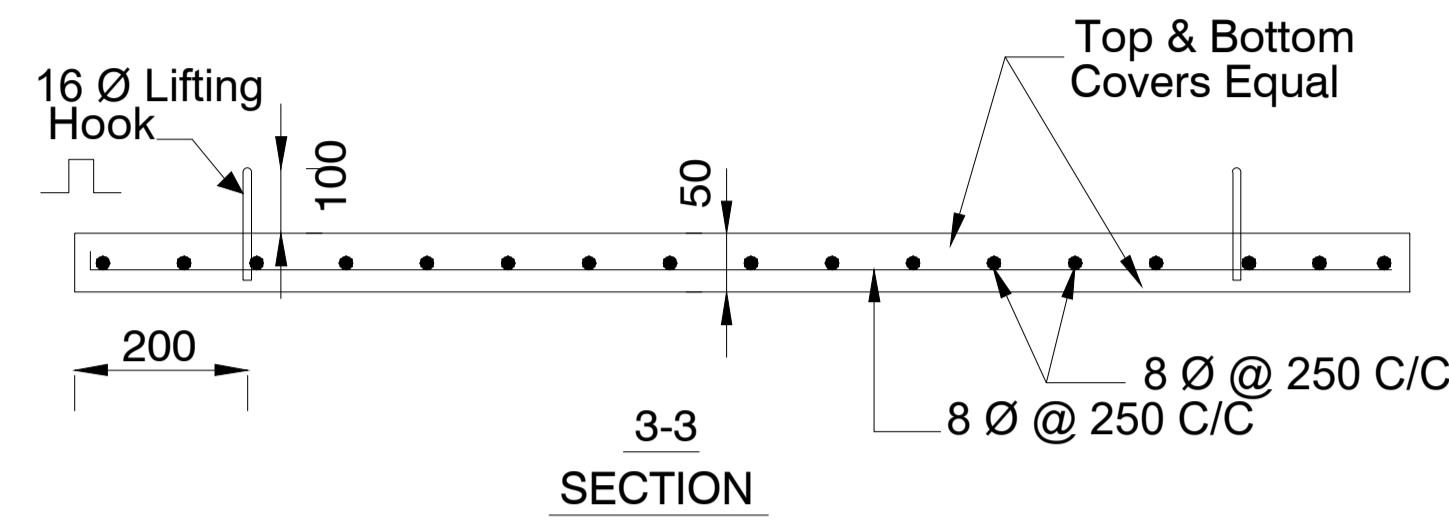
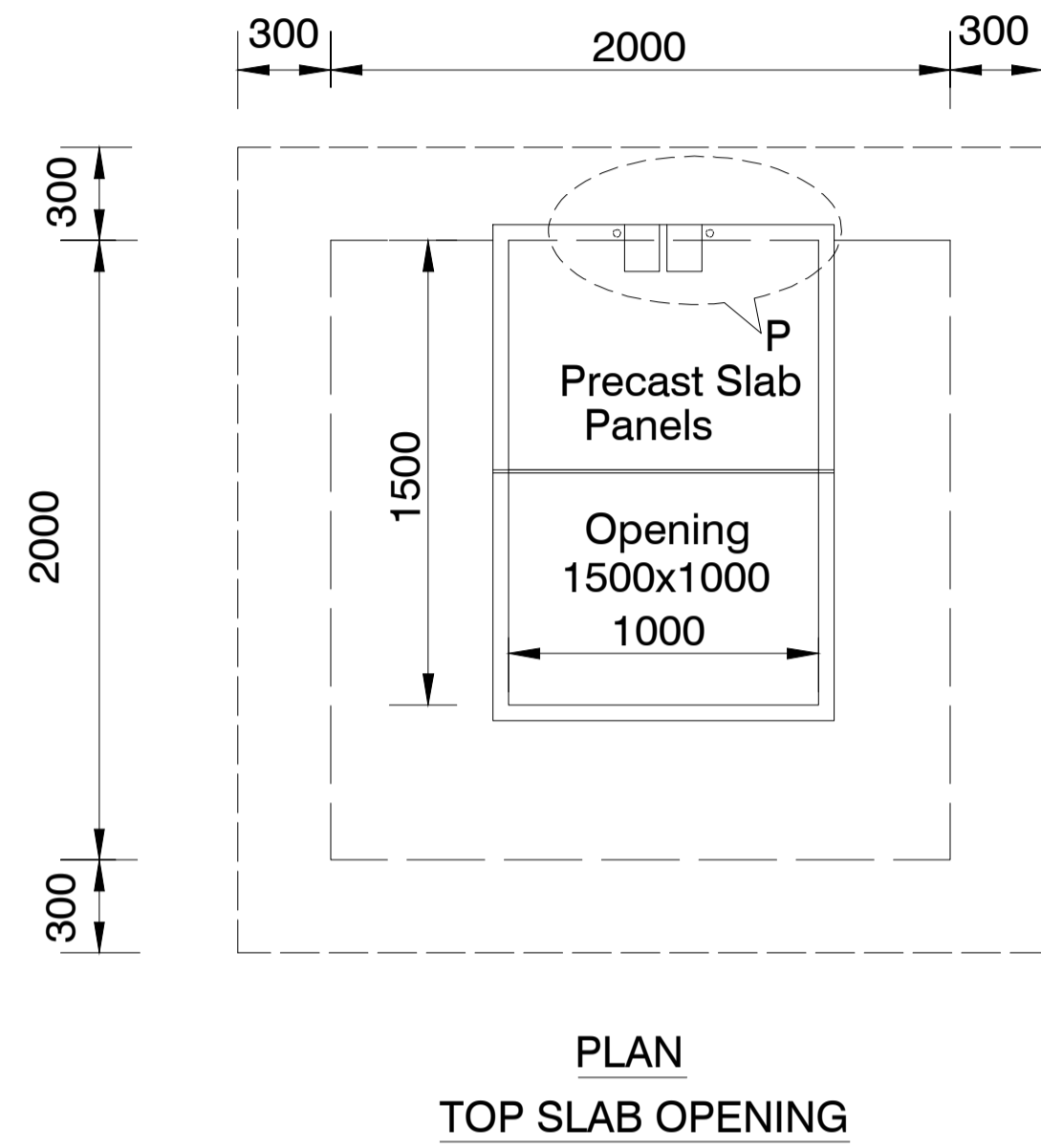
Title : **TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER FOR MS PIPES (1000 TO 1300 mm Dia.)**

Consultants :

aarvee associates
architects engineers consultants pvt.ltd. &
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTES:-

- 1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
- 2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

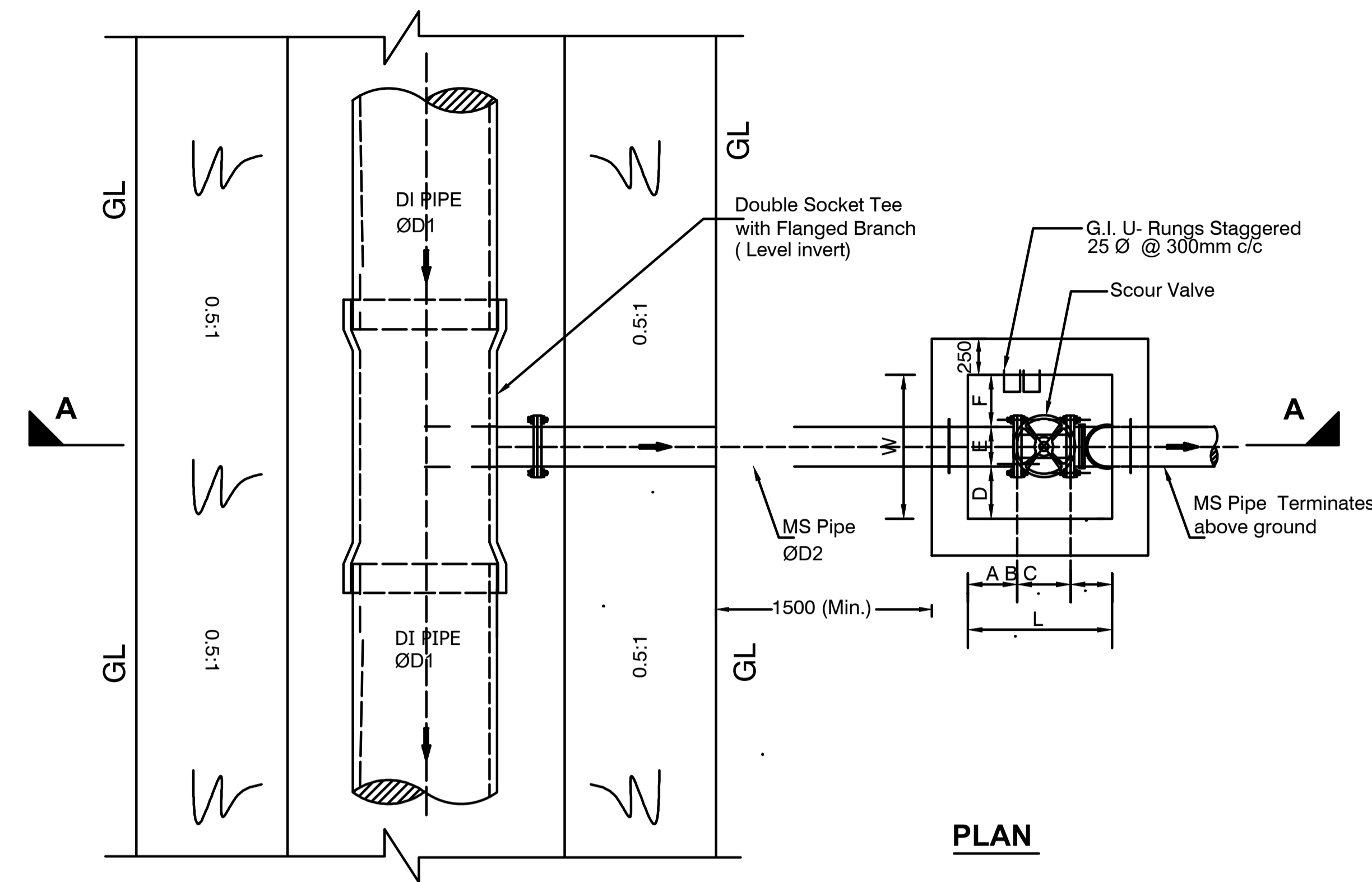
Title : TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER
FOR MS PIPES
(1000 TO 1300 mm Dia.)

Consultants : 
aarvee associates
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Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

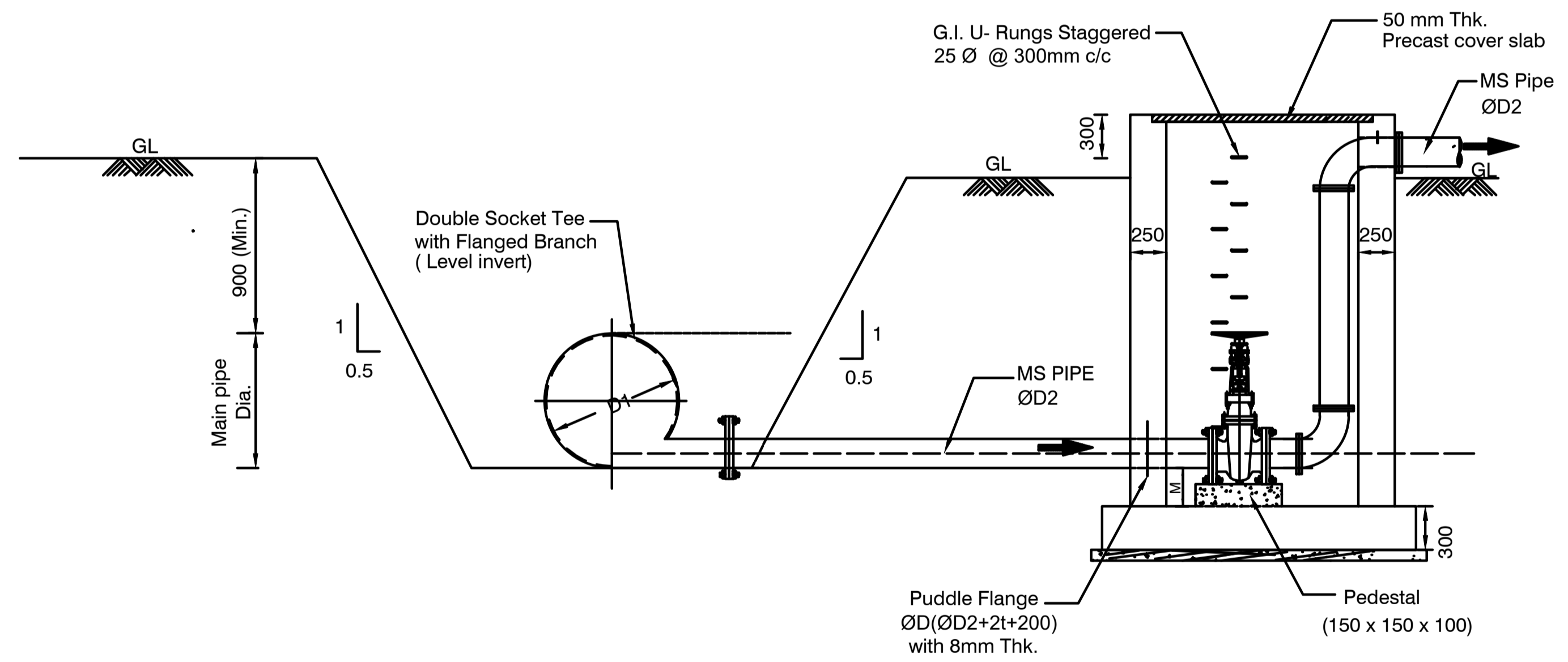
NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
2. FOR REINFORCENET & NUMERATION DETAILS OF VALVE CHAMBERS REFER CIVIL DRAWINGS.
3. LOCATION OF SVOUR VALVE (SV) SHALL BE REFERRED FROM L- SECTION DRAWINGS.
4. DISCHARGE FROM SCOUR VALVE IS TO BE CONNECTED TO THE NEAREST STREAM.
5. TEE SHOULD BE PLACED IN SUCH A WAY THAT SCOUR PIPE SHOULD BE AT BOTTOM.

LIST OF SCOUR VALVE SEE PAGES 43 & 44



PLAN



SECTION A-A

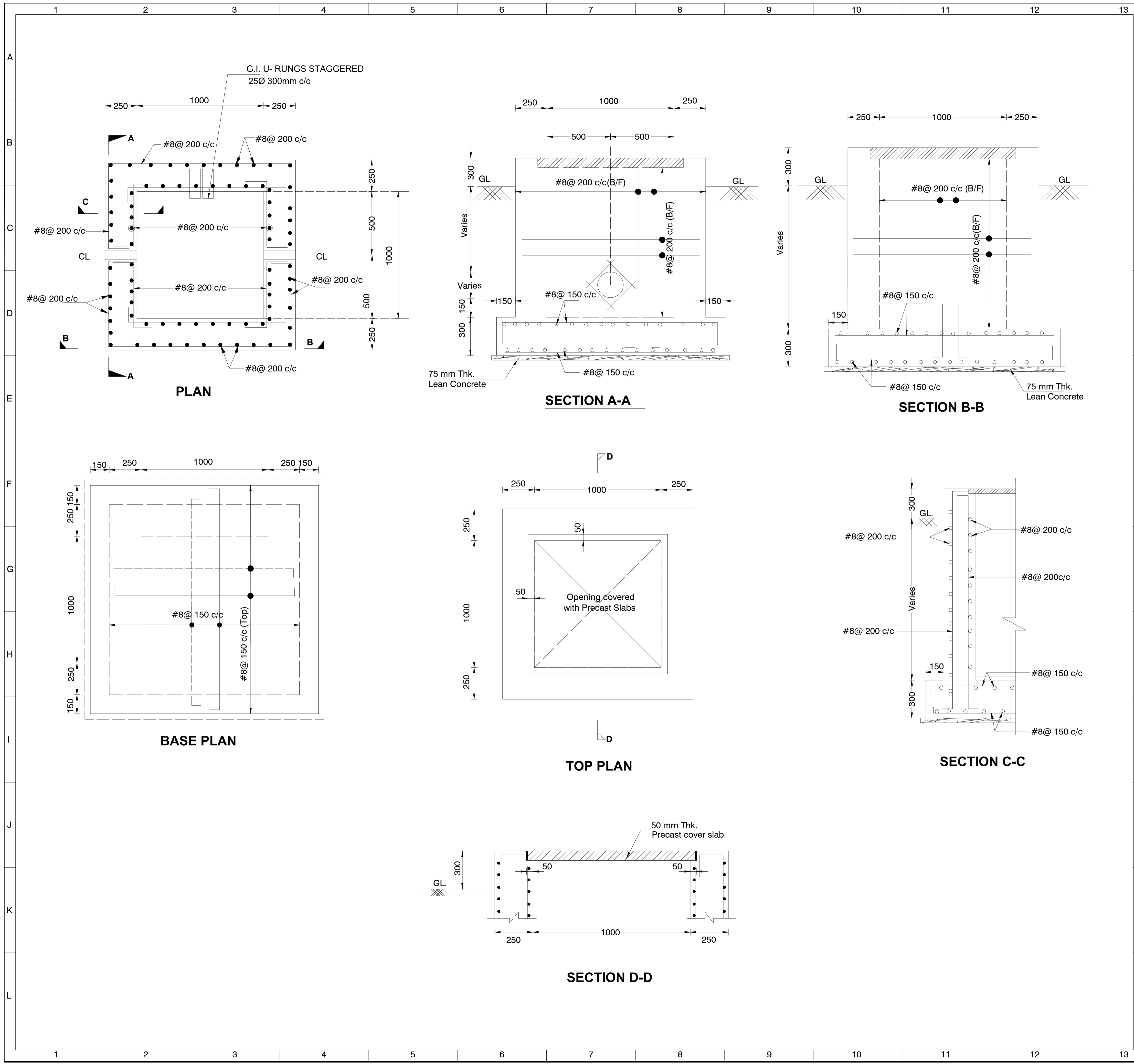
S.No.	MAIN PIPE MATERIAL	MAIN PIPE SIZE ØD (NB)	SCOUR PIPE MATERIAL	SCOUR PIPE SIZE ØD (NB)	VALVE SIZE (NB)	A	B	C	D	E	F	L	W	M
1	DI	300	MS	80	80	497	203	300	610	90	300	1000	1000	190
2	DI	400	MS	100	100	471	229	300	585	115	300	1000	1000	215
3	DI	450	MS	125	125	465	240	300	565	125	300	1000	1000	225
4	DI	600	MS	150	150	433	267	300	533	167	300	1000	1000	270
5	DI	700	MS	150	150	433	267	300	533	167	300	1000	1000	270
6	DI	800	MS	200	200	408	292	300	481	219	300	1000	1000	320
7	DI	900	MS	200	200	408	292	300	481	219	300	1000	1000	320

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATON SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF SCOUR VALVE
CHAMBER FOR DI PIPES
(300 TO 900 mm Dia.)**

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



- NOTE:**
1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
 2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
 3. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm
 5. LAP LENGTHS / DEVELOPMENT LENGTHS SHALL BE 50 x DIA. OF BAR.
 6. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE
FOR WALLS & BASE SLAB : 50 mm , TOP SLAB : 15 mm.
 7. BACKFILLING AROUND THE CHAMBER SHALL BE WITH SOULS OF $\phi=32^\circ$

LEGEND:

B/F : BOTH FACES

--- TOP BARS(T)

— BOTTOM BARS(B)

TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

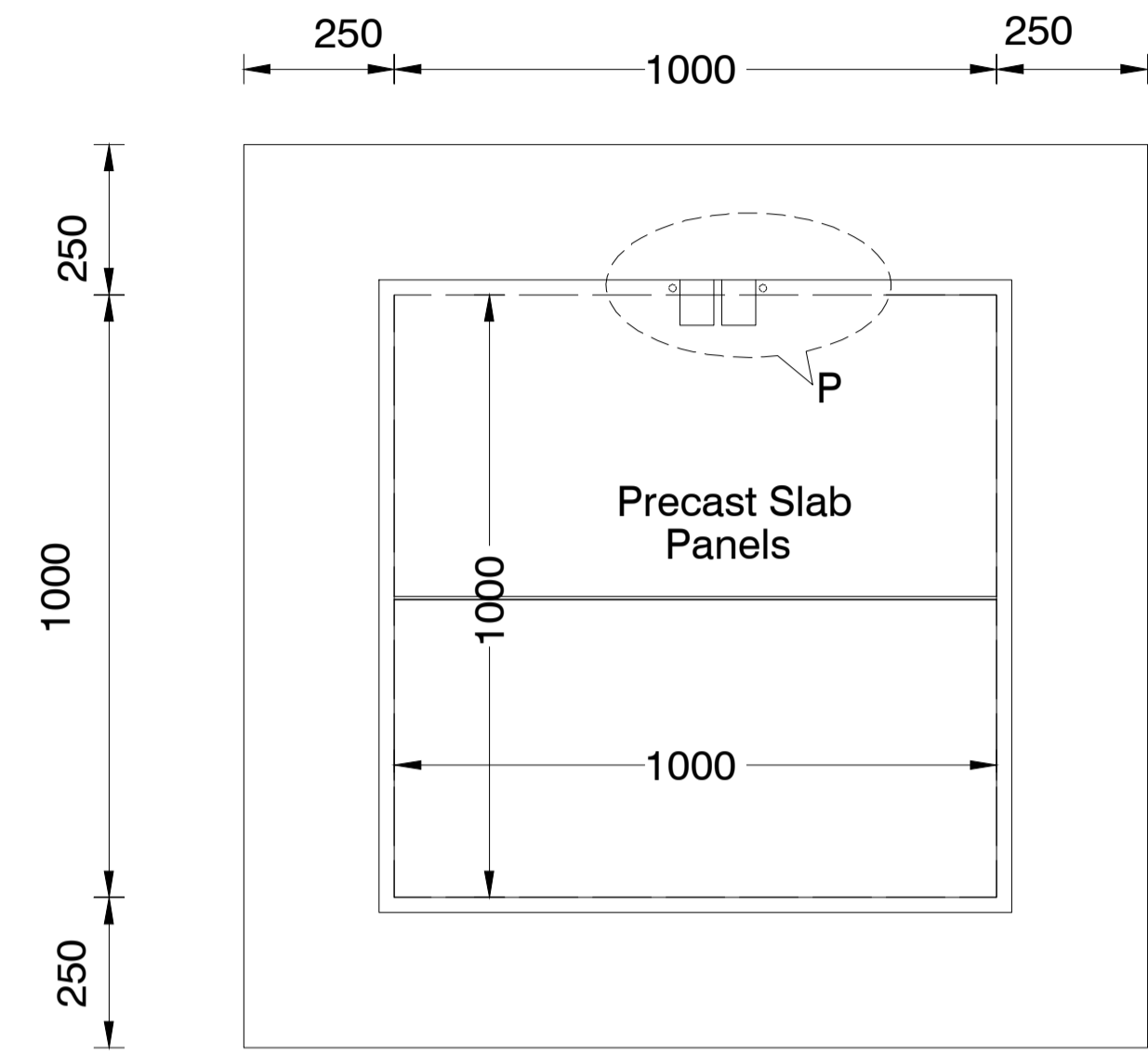
Title : FOR DI PIPES
(300 TO 900 mm Dia.)

Consultants :

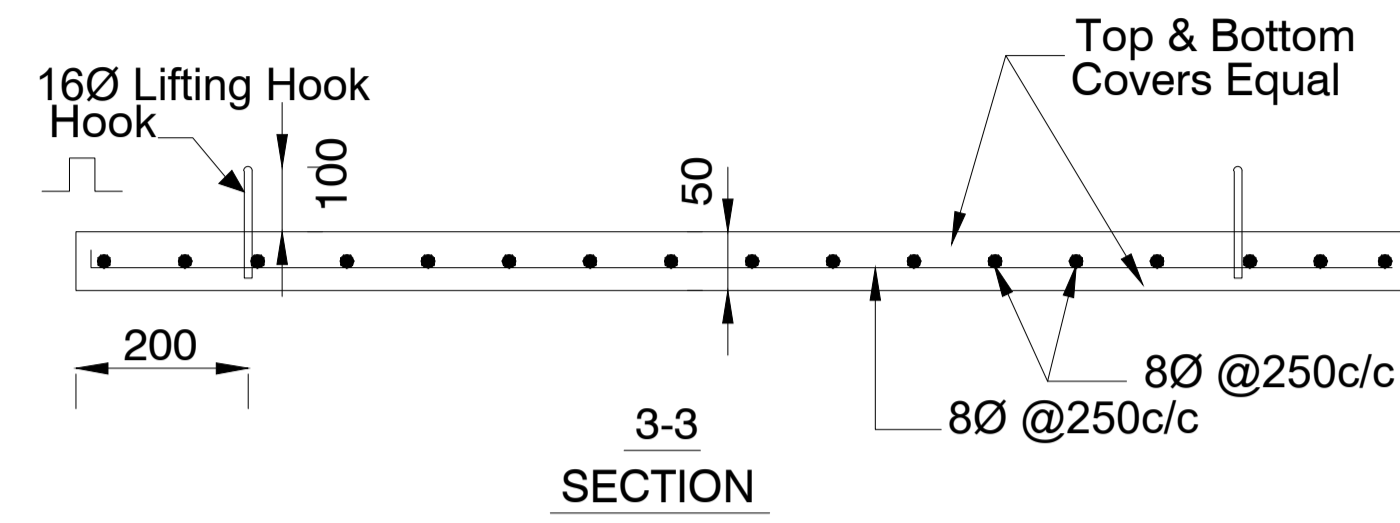
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTES:-

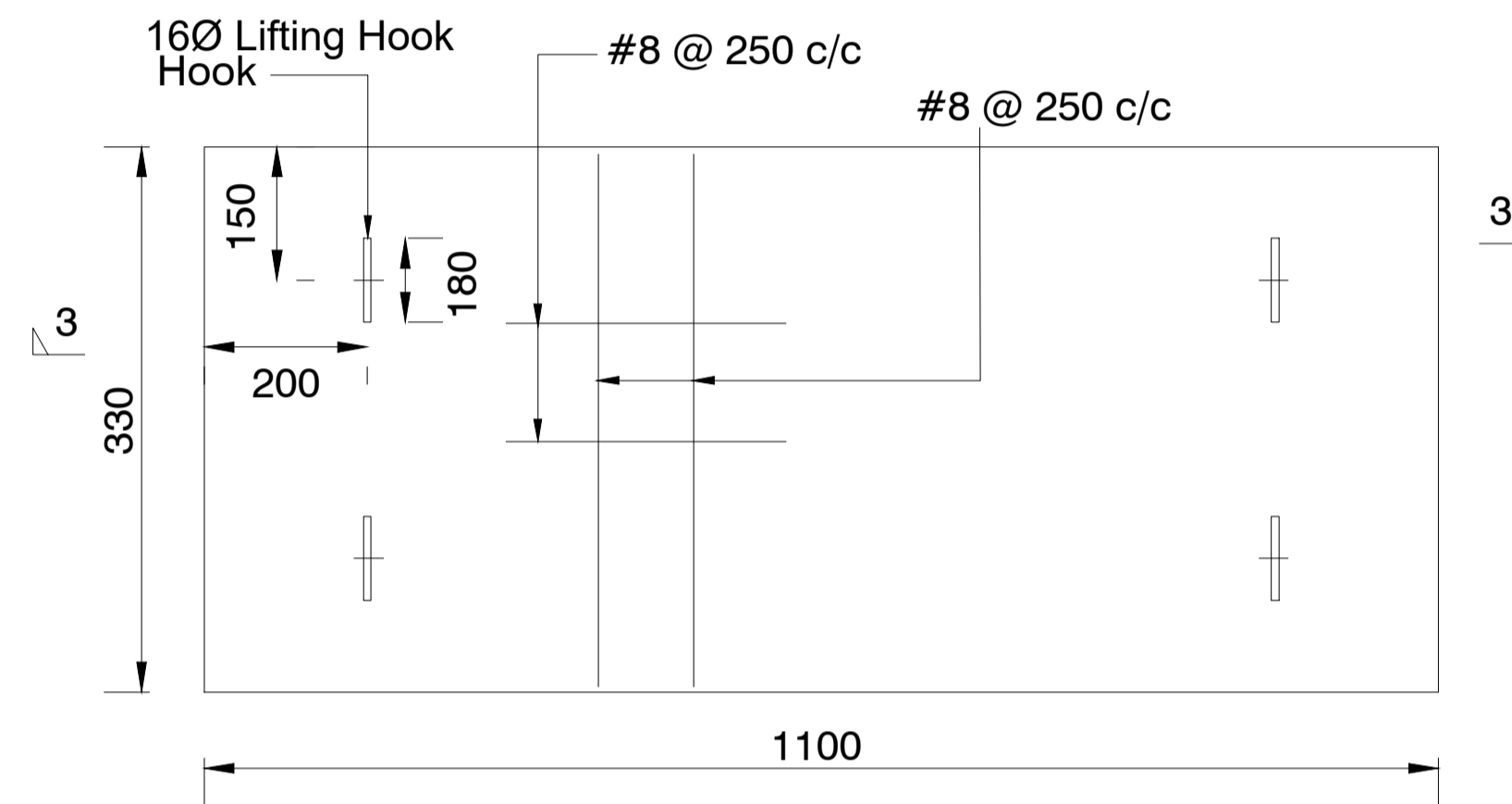
- 1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
- 2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



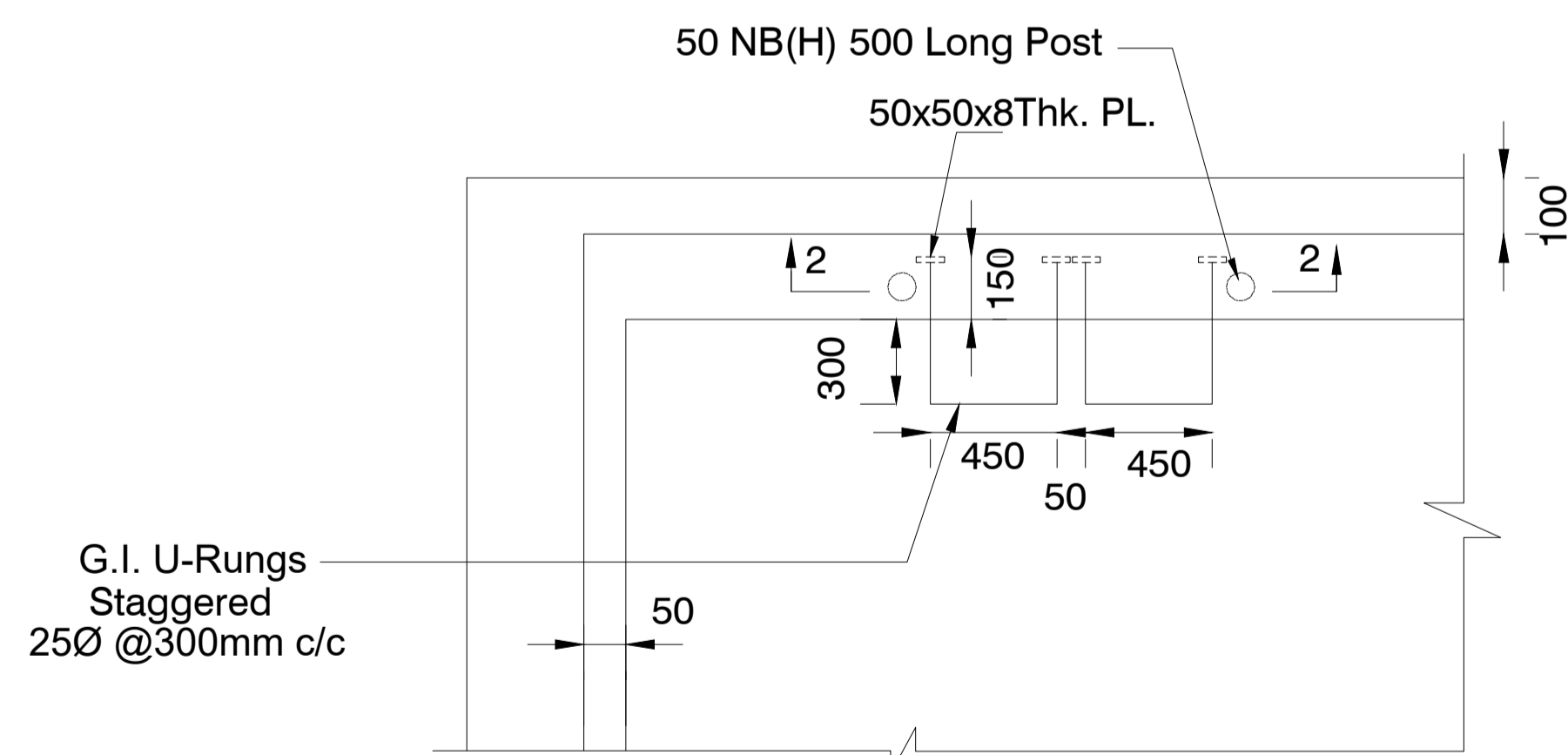
PLAN
TOP SLAB OPENING



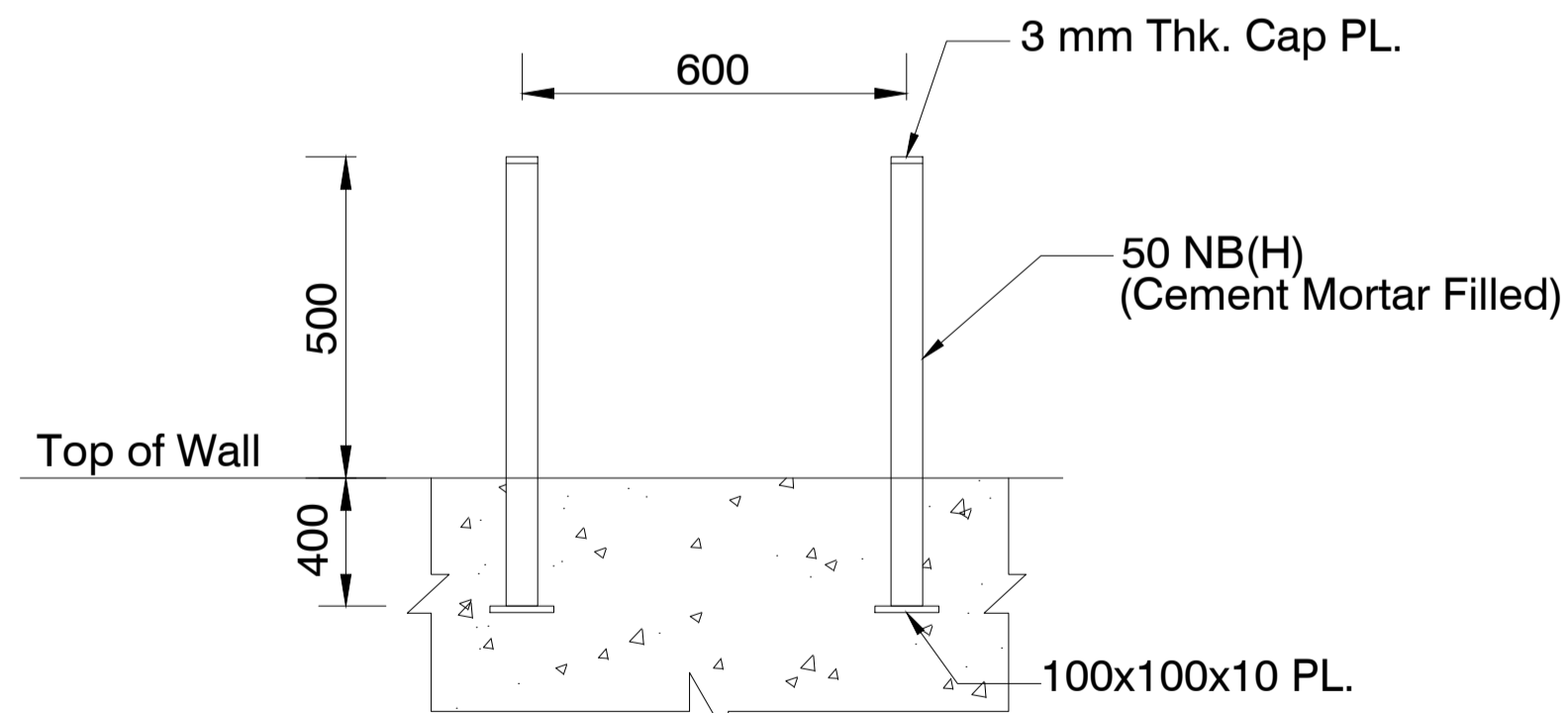
3-3
SECTION



PLAN
PRECAST COVER PANELS



DETAIL - P



2-2
SECTION

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

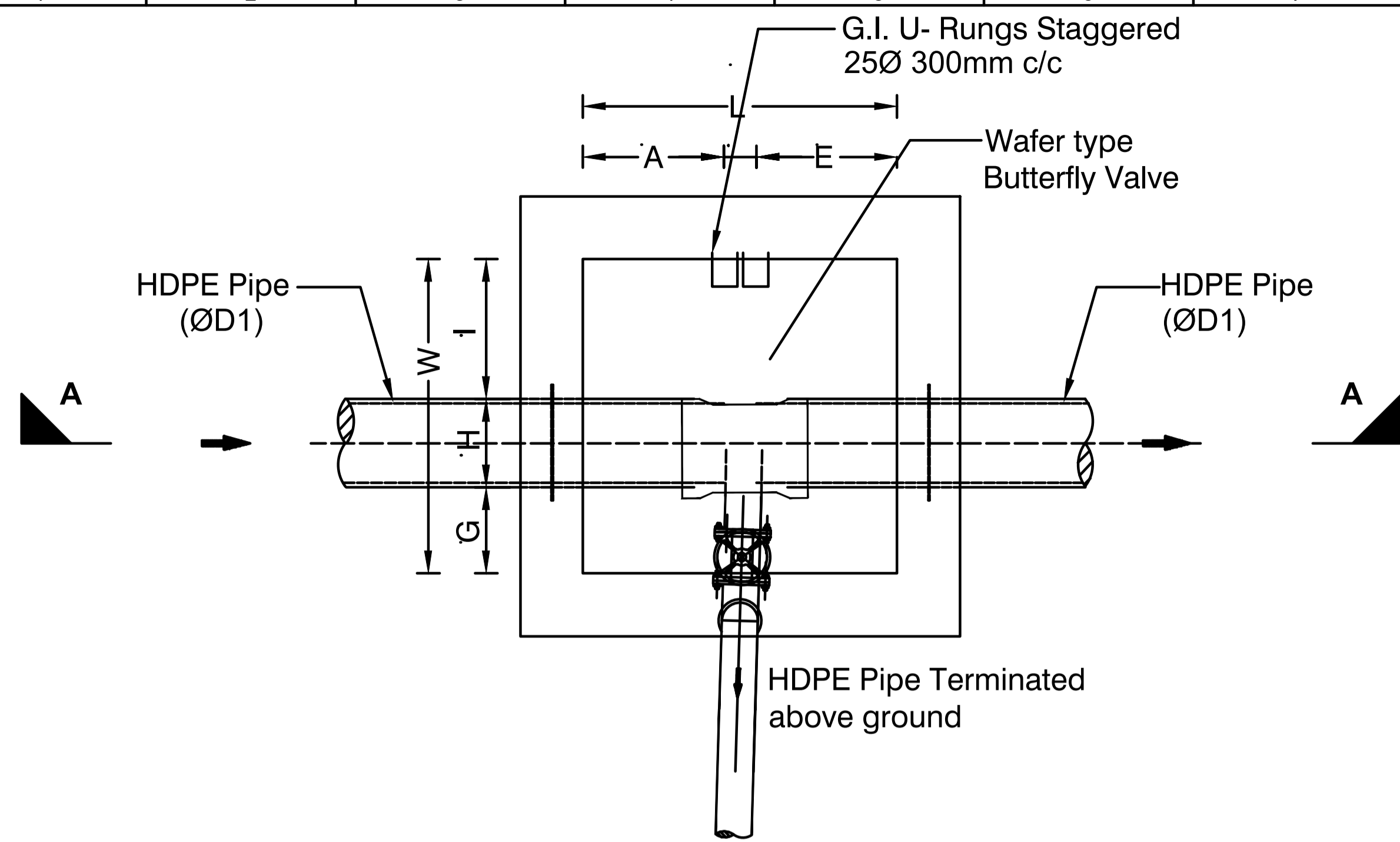
Title : TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER
FOR DI PIPES
(300 TO 900 mm Dia.)

Consultants :

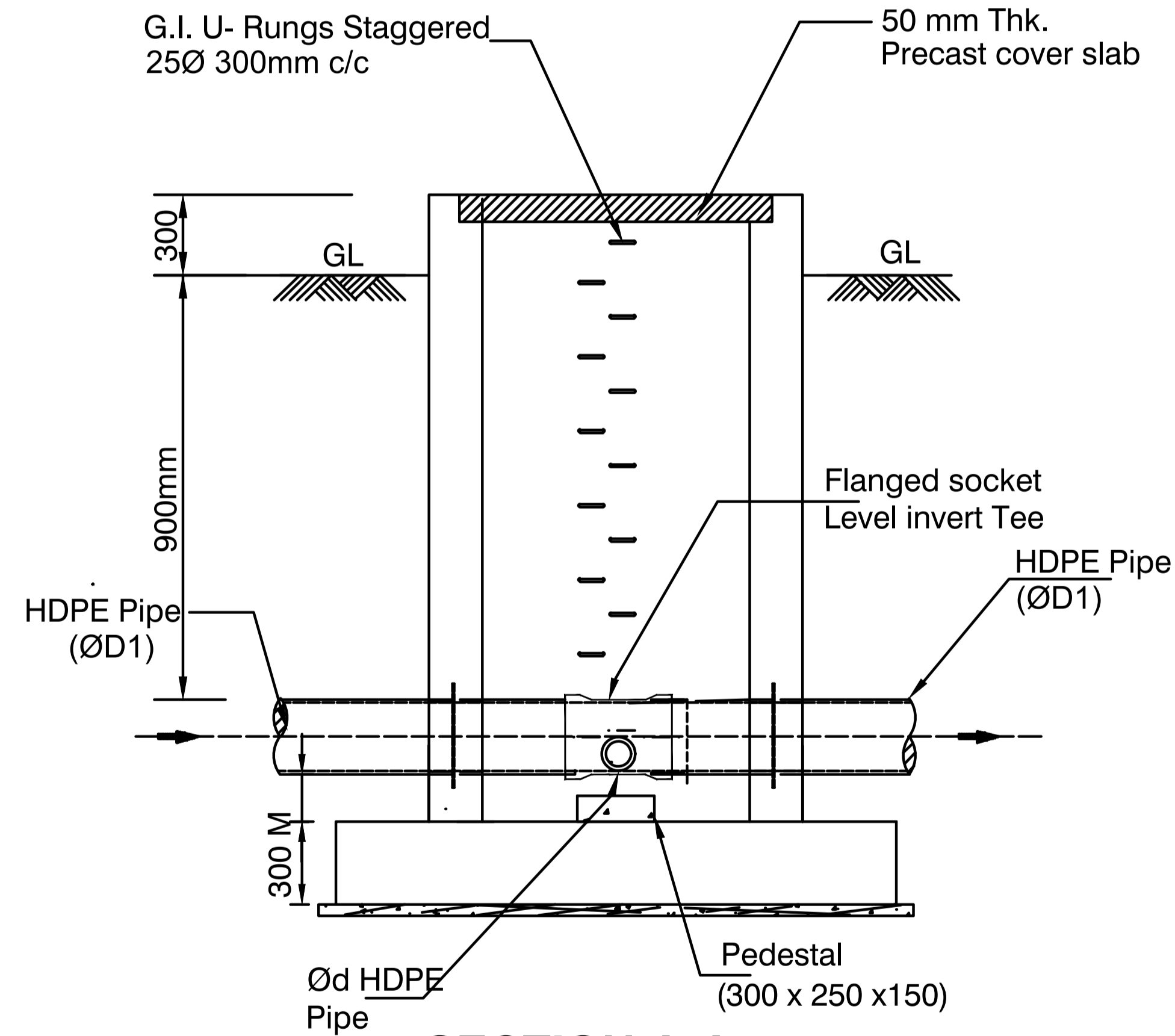
aarvee associates
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Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTE:

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
2. FOR REINFORCEMENT & NUMERATION DETAILS OF VALVE CHAMBERS REFER CIVIL DRAWINGS.
3. LOCATION OF BUTTERFLY VALVE (BFV) SHALL BE REFERRED FROM L-SECTION OF DISTRIBUTION NETWORK.



PLAN



SECTION A-A

S.No.	Main pipe Material	Main pipe Size ØD1 (mm)	Valve size (NB)	A	D	E	G	H	I	J	L	W	K	M
1	HDPE	250	80	399	76	325	280	250	670	210	800	1200	300	150
2	HDPE	225	80	399	76	325	305	225	670	210	800	1200	300	150
3	HDPE	200	80	399	76	325	330	200	670	210	800	1200	300	150
4	HDPE	180	80	399	76	325	350	180	670	210	800	1200	300	150
5	HDPE	160	80	399	76	325	370	160	670	210	800	1200	300	150
6	HDPE	140	80	399	76	325	390	140	670	210	800	1200	300	150

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF SCOUR VALVE CHAMBER FOR HDPE PIPES**

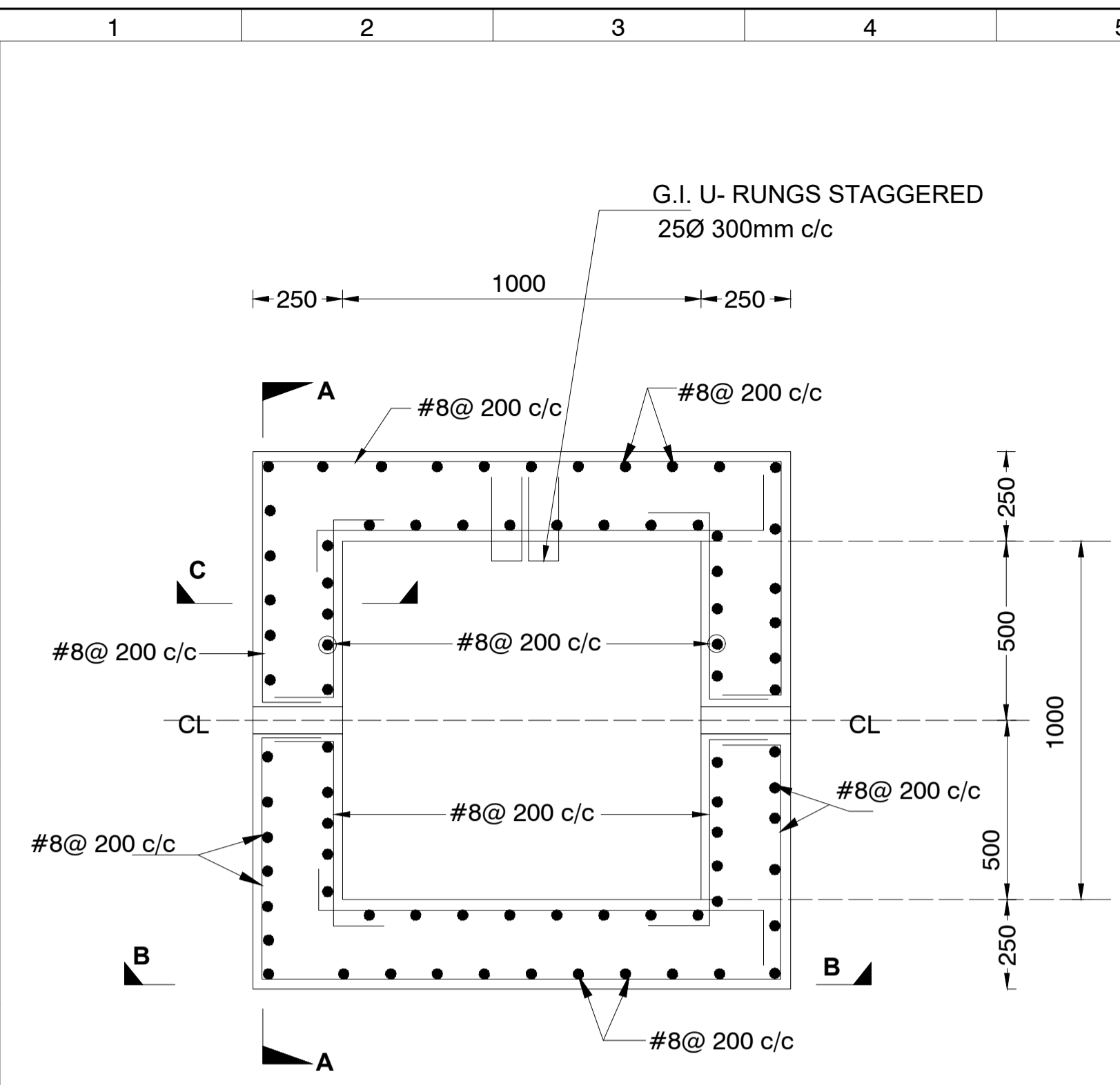
Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTE:

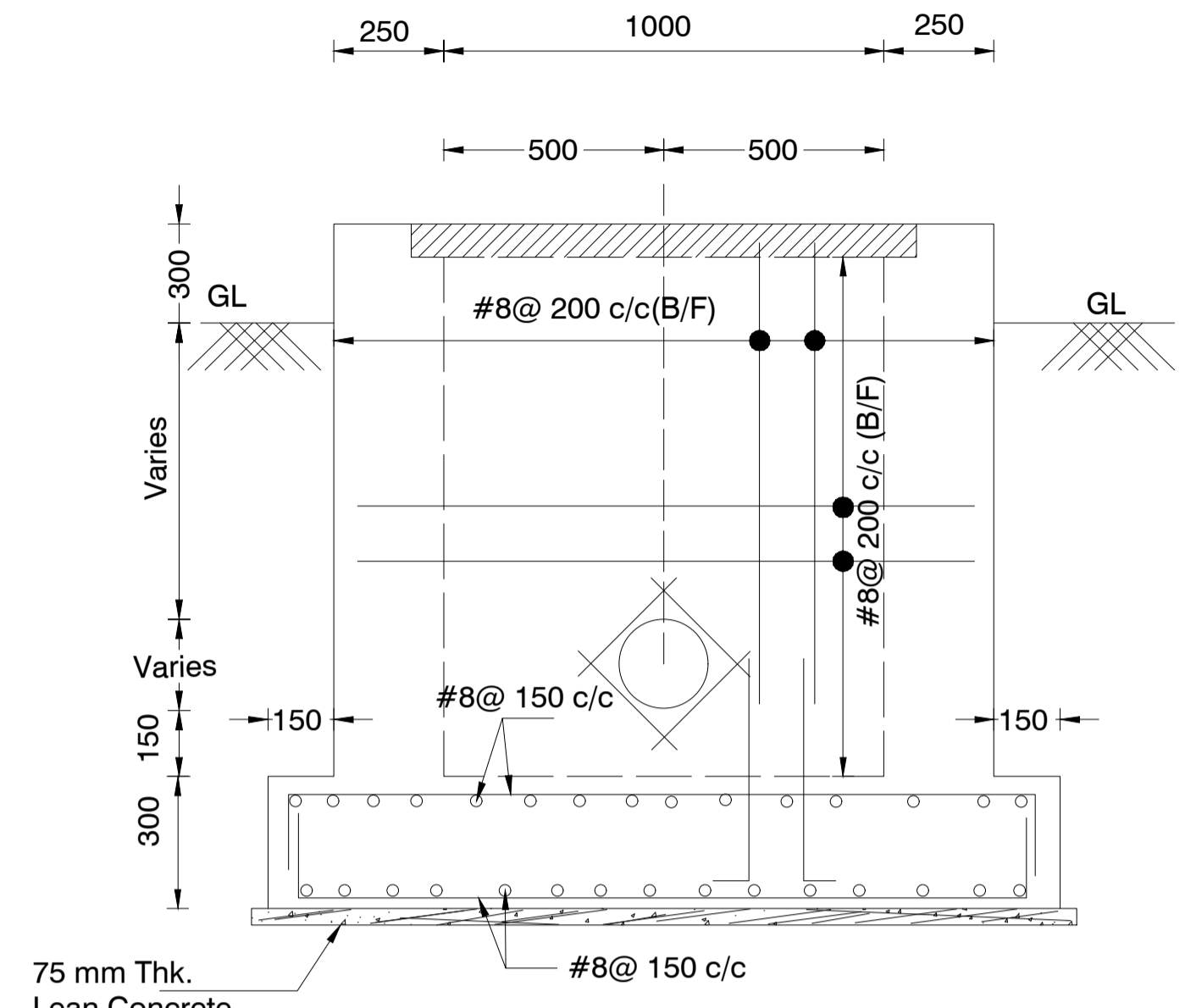
1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
3. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20.
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm
5. LAP LENGTHS / DEVELOPMENT LENGTHS SHALL BE 50 x DIA. OF BAR.
6. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE
FOR WALLS & BASE SLAB : 50 mm , TOP SLAB : 15 mm.
7. BACKFILLING AROUND THE CHAMBER SHALL BE WITH SOULS OF Ø=32°

LEGEND:

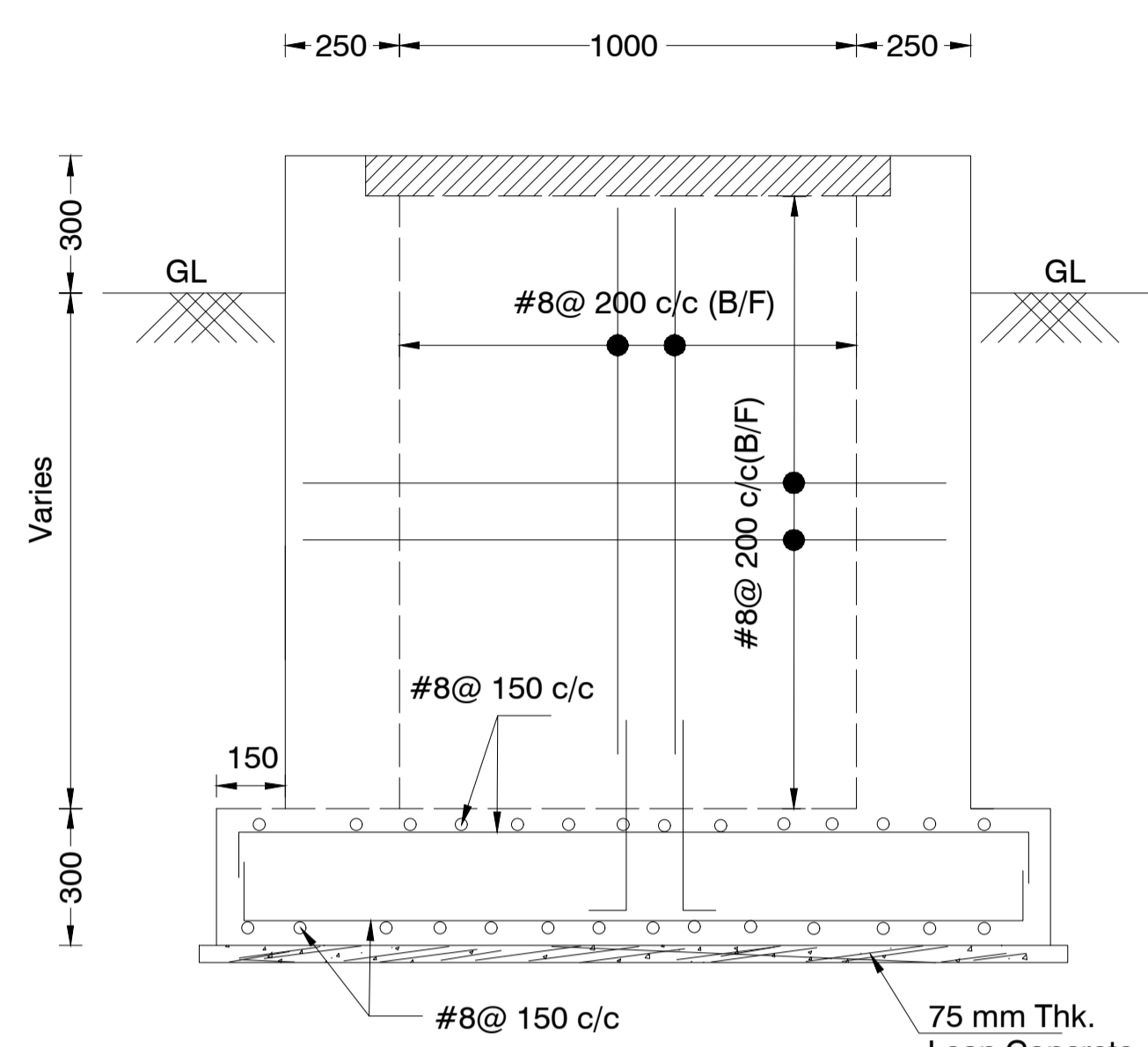
- B/F : BOTH FACES
- TOP BARS(T)
- BOTTOM BARS(B)



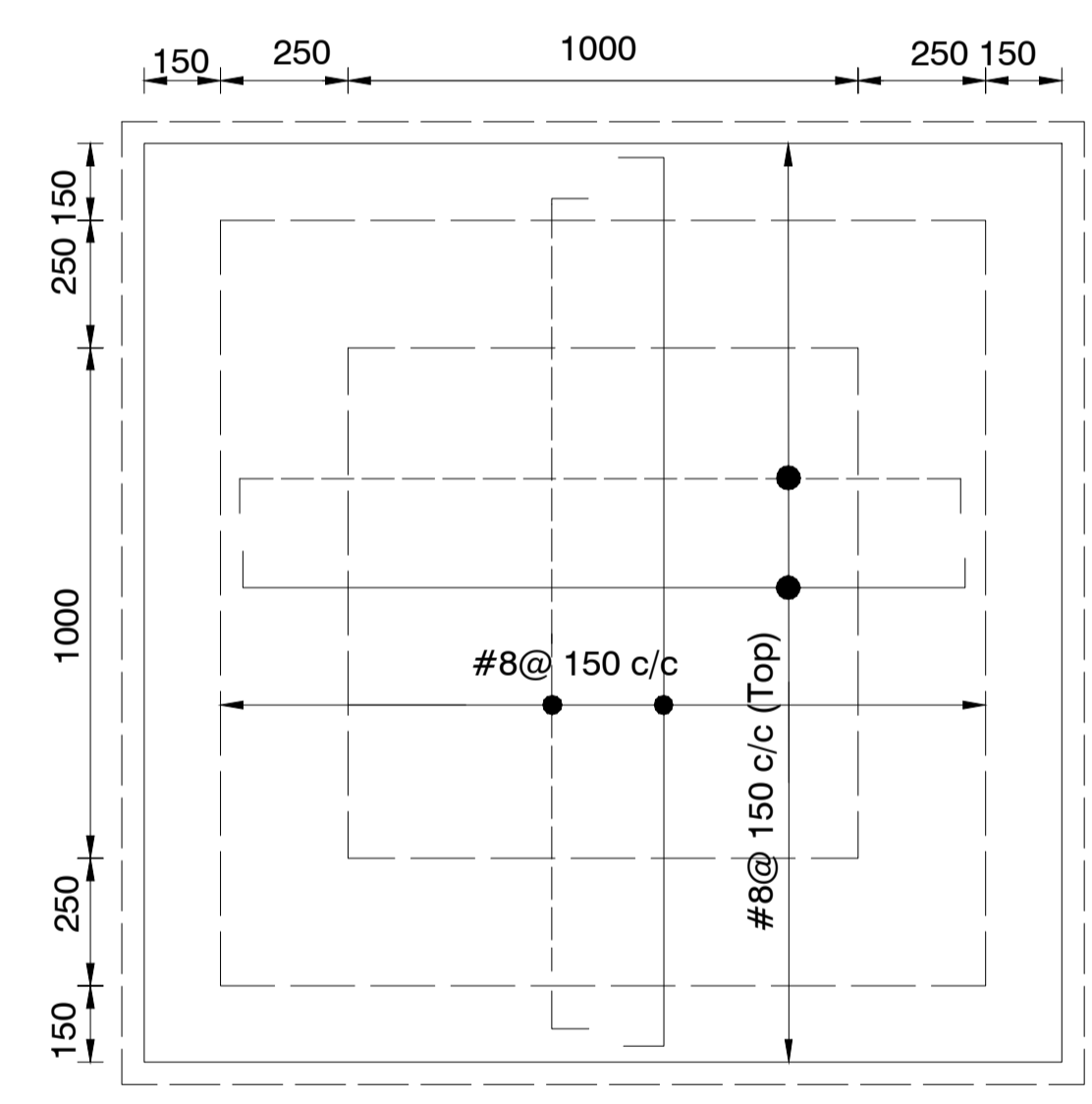
PLAN



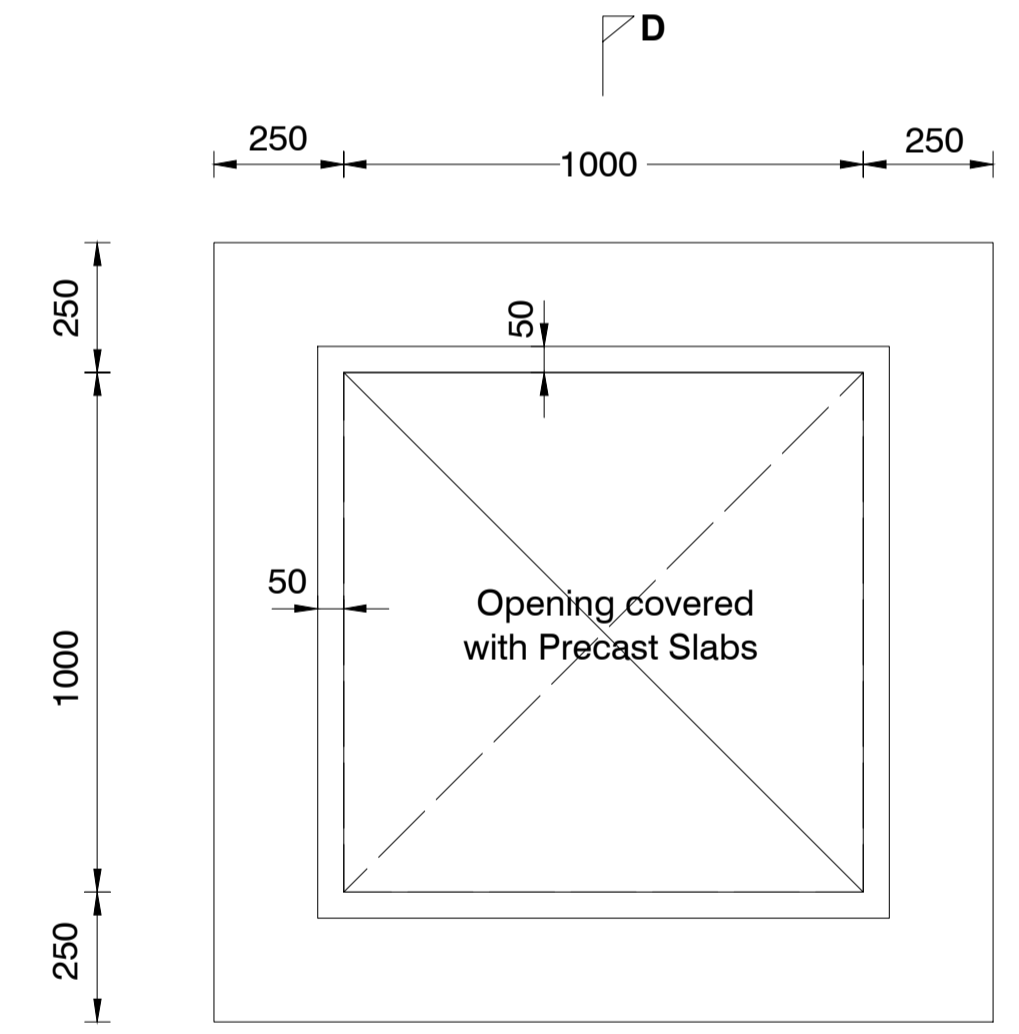
SECTION A-A



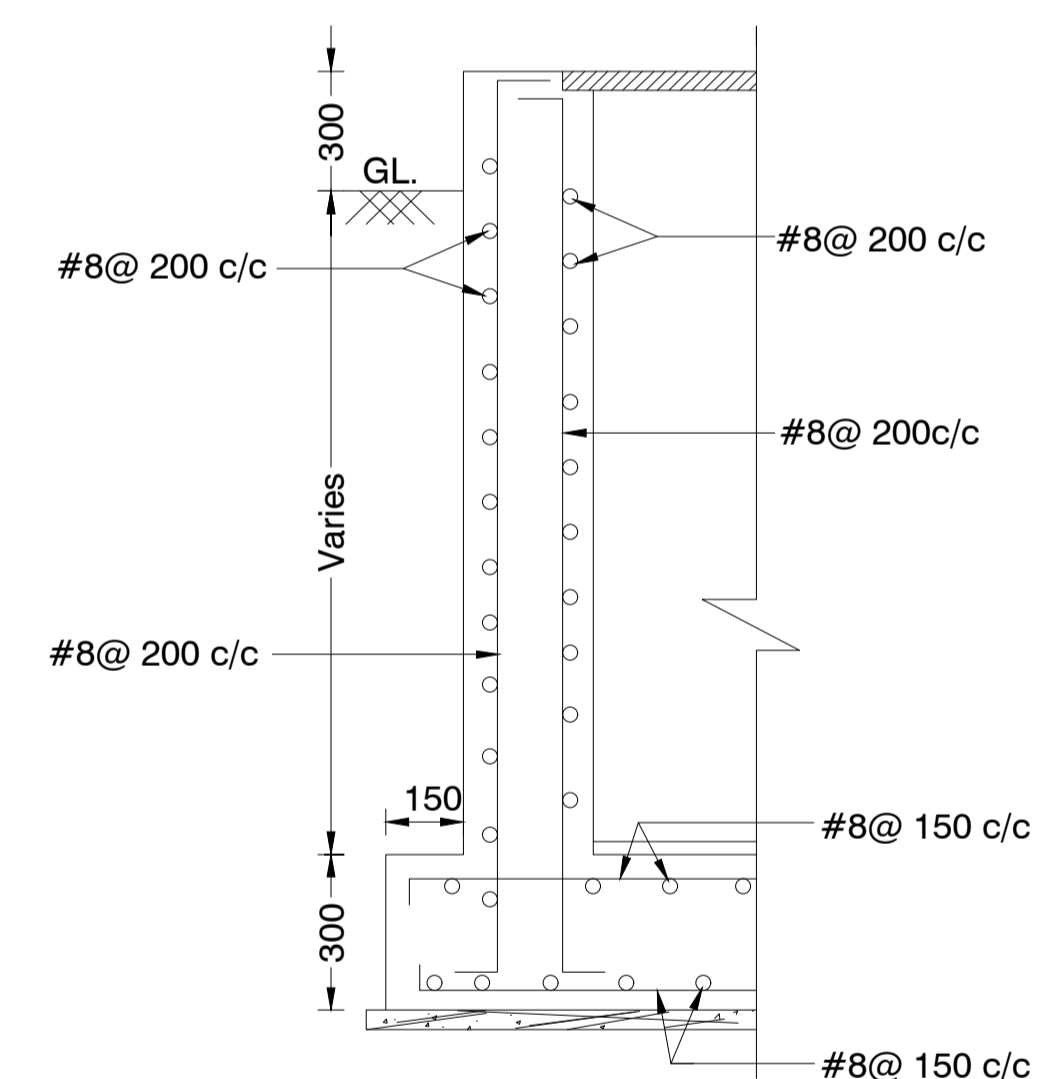
SECTION B-B



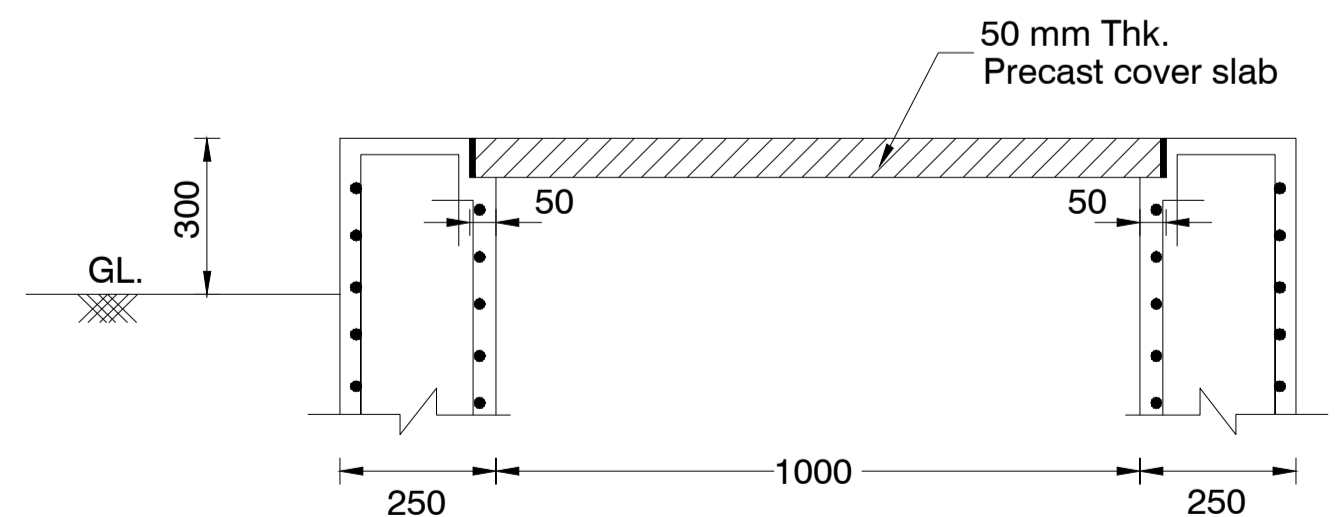
BASE PLAN



TOP PLAN



SECTION C-C



SECTION D-D

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

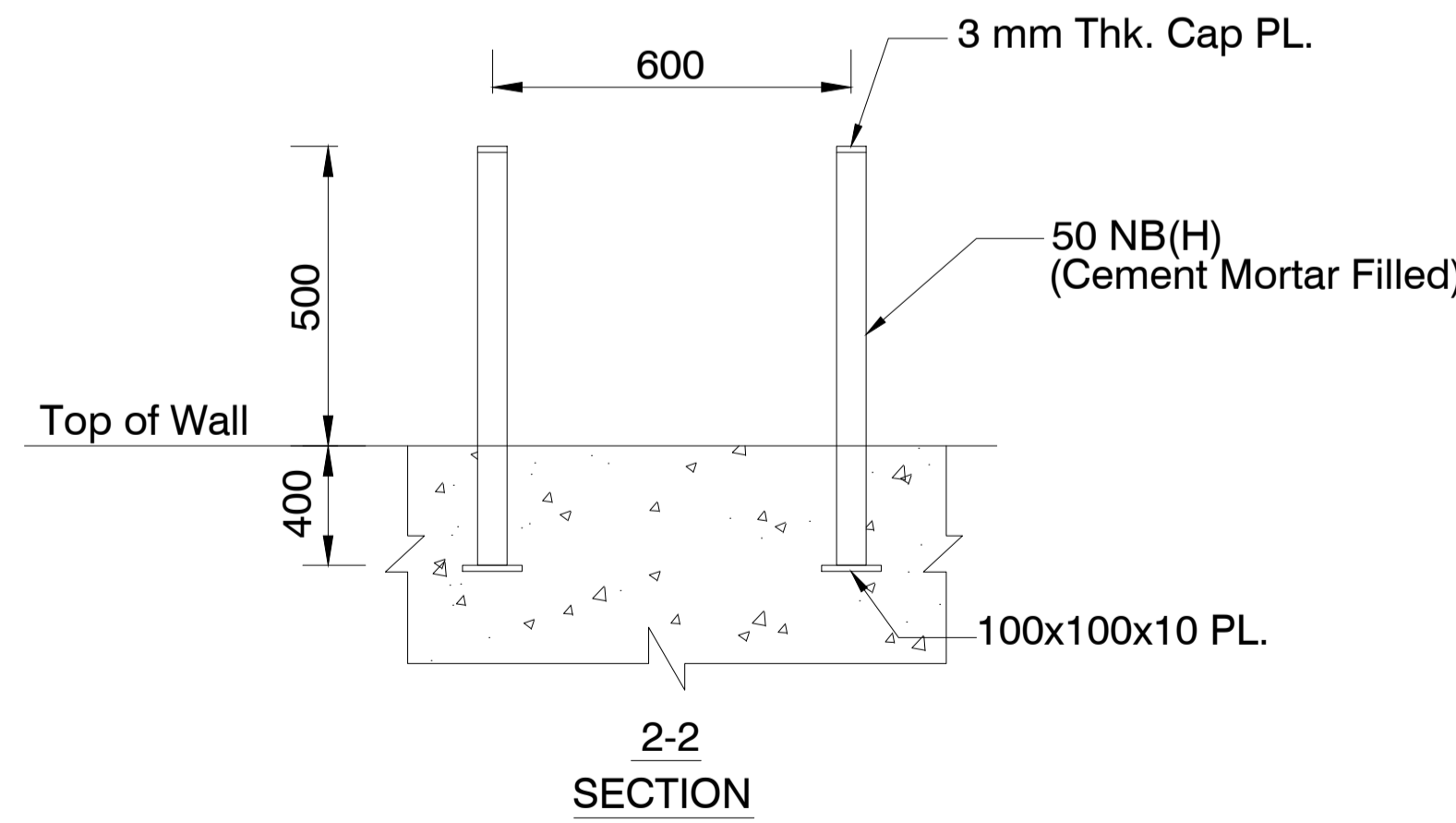
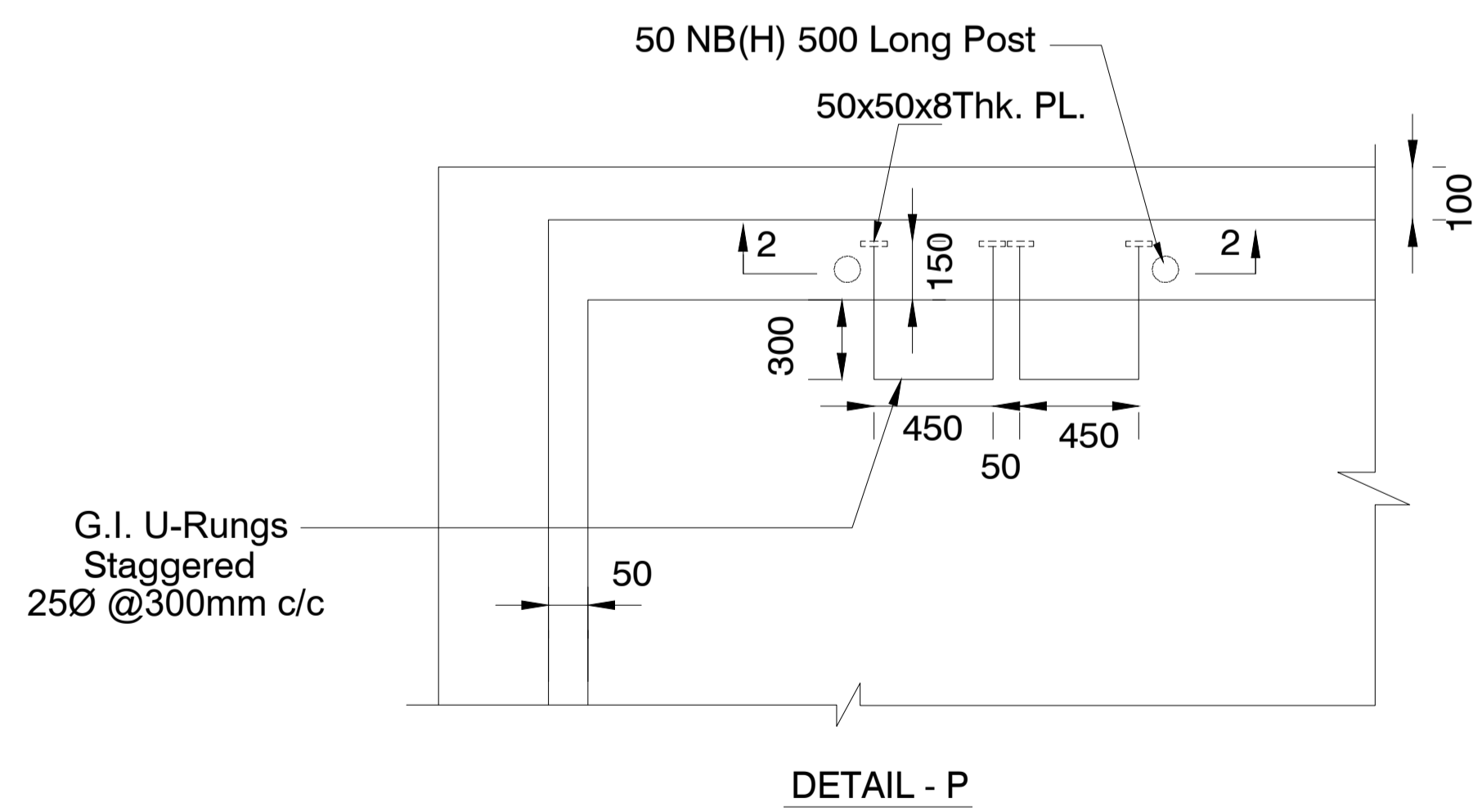
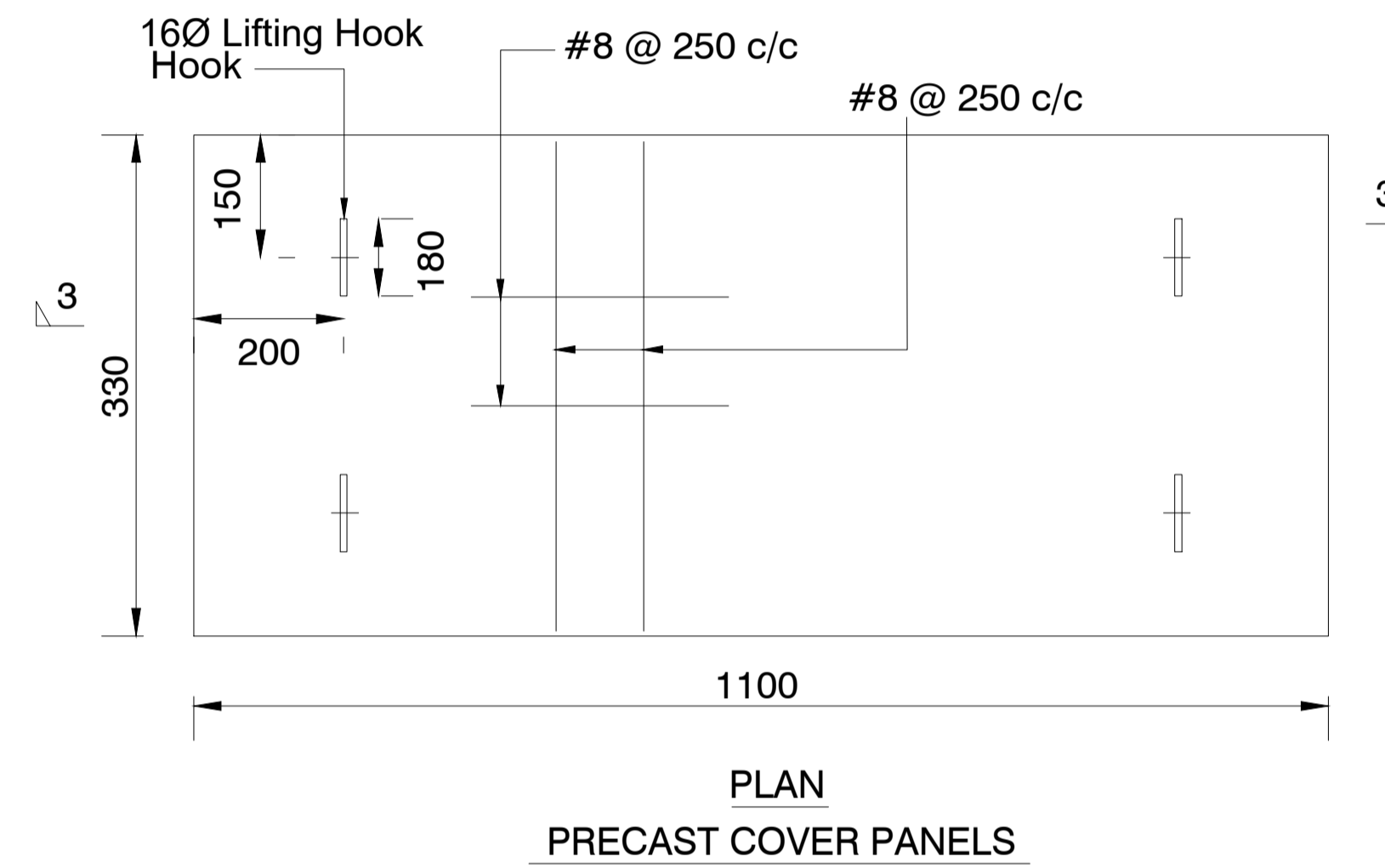
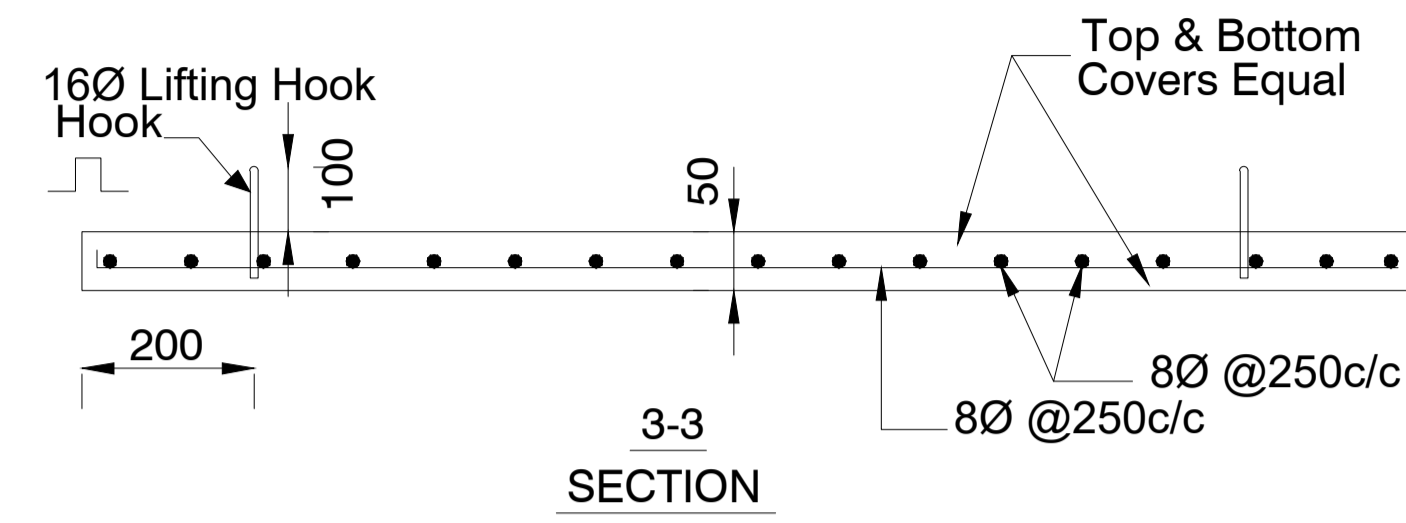
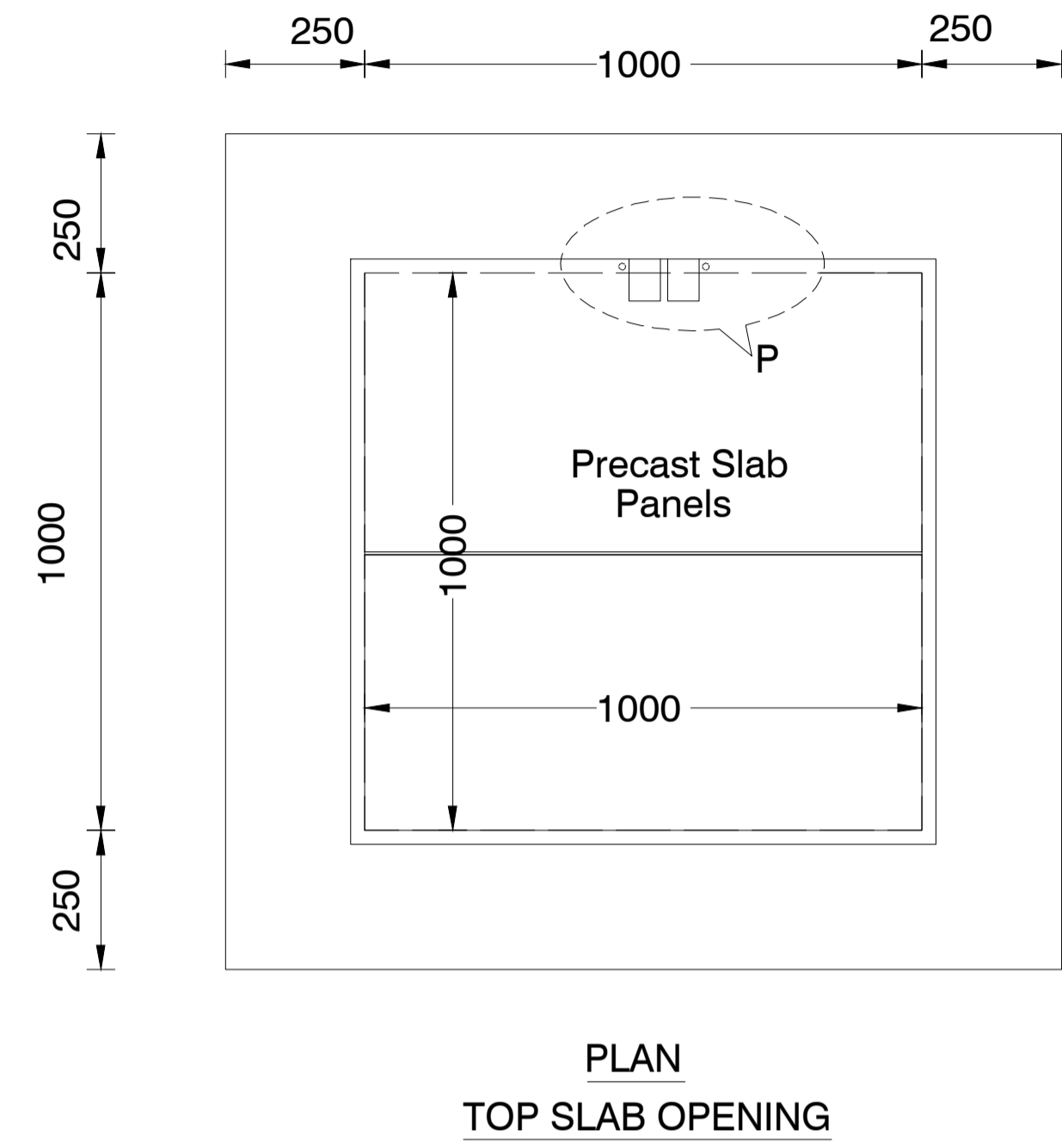
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER FOR HDPE PIPES**

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd. &
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737833; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTES:-

- 1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
- 2. DO NOT SCALE THE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : TYPICAL REINFT. DETAILS OF SCOUR VALVE CHAMBER FOR HDPE PIPES

Consultants :

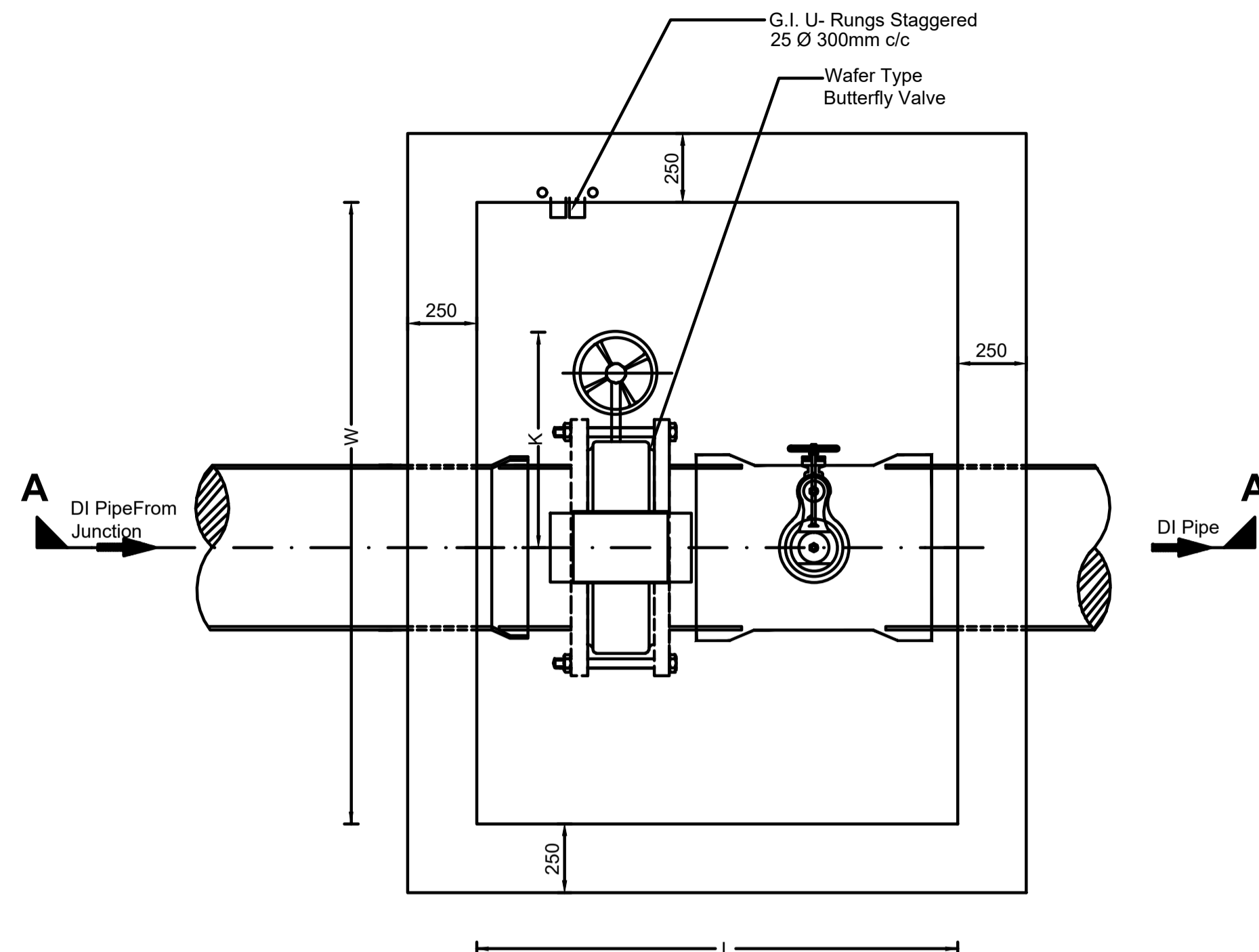
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NOTE:

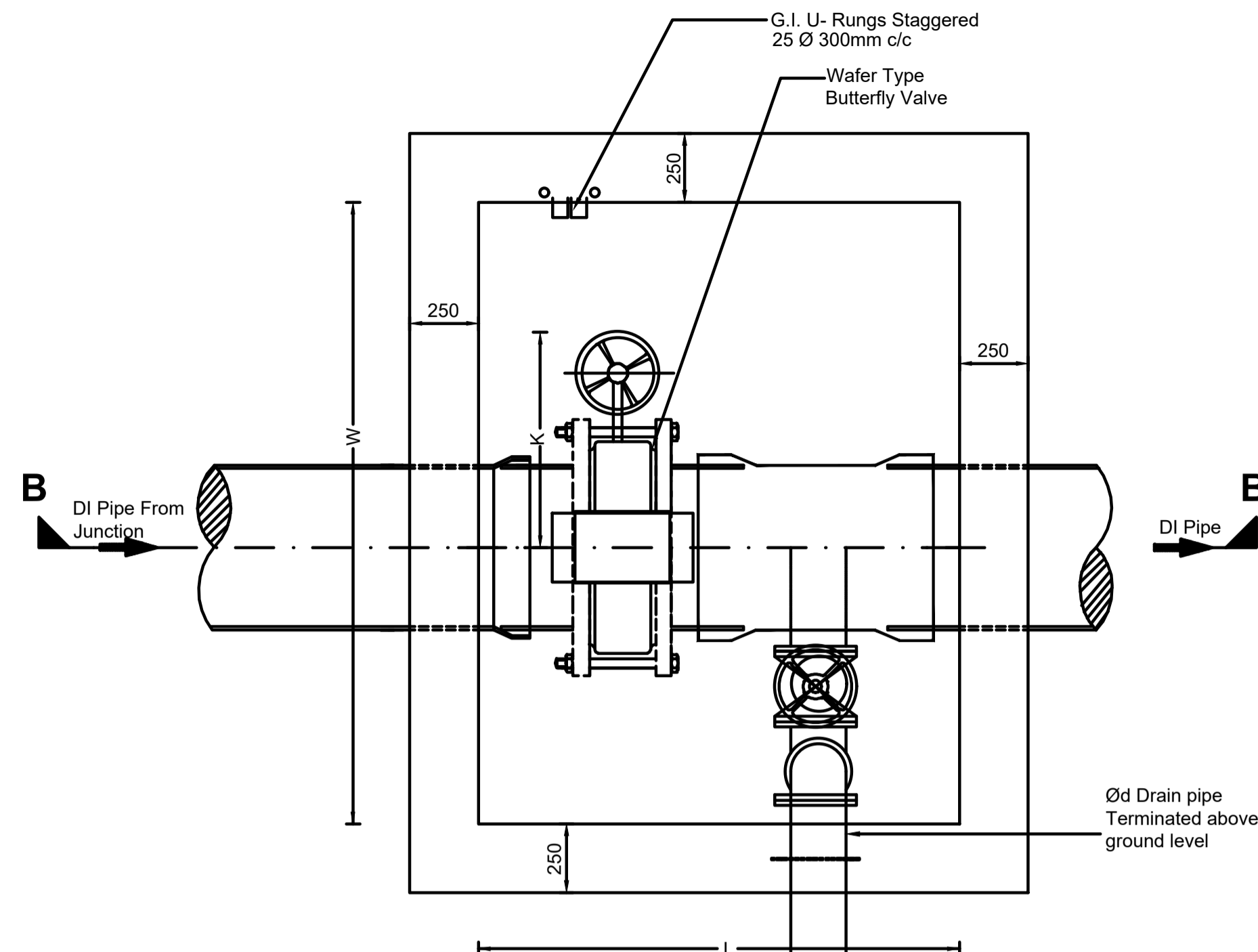
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
2. FOR REINFORCEMENT & NUMERATION DETAILS OF VALVE CHAMBERS REFER CIVIL DRAWINGS.
3. LOCATION OF BUTTERFLY VALVE (BFV) SHALL BE REFERRED FROM L-SECTION OF PIPELINE.
4. INSTALLATION OF BUTTERFLY VALVE SHOULD MATCH TO THE FLOW DIRECTION.

LIST OF BUTTERFLY VALVES AND ASSOCIATED VALVES ON DI PIPES

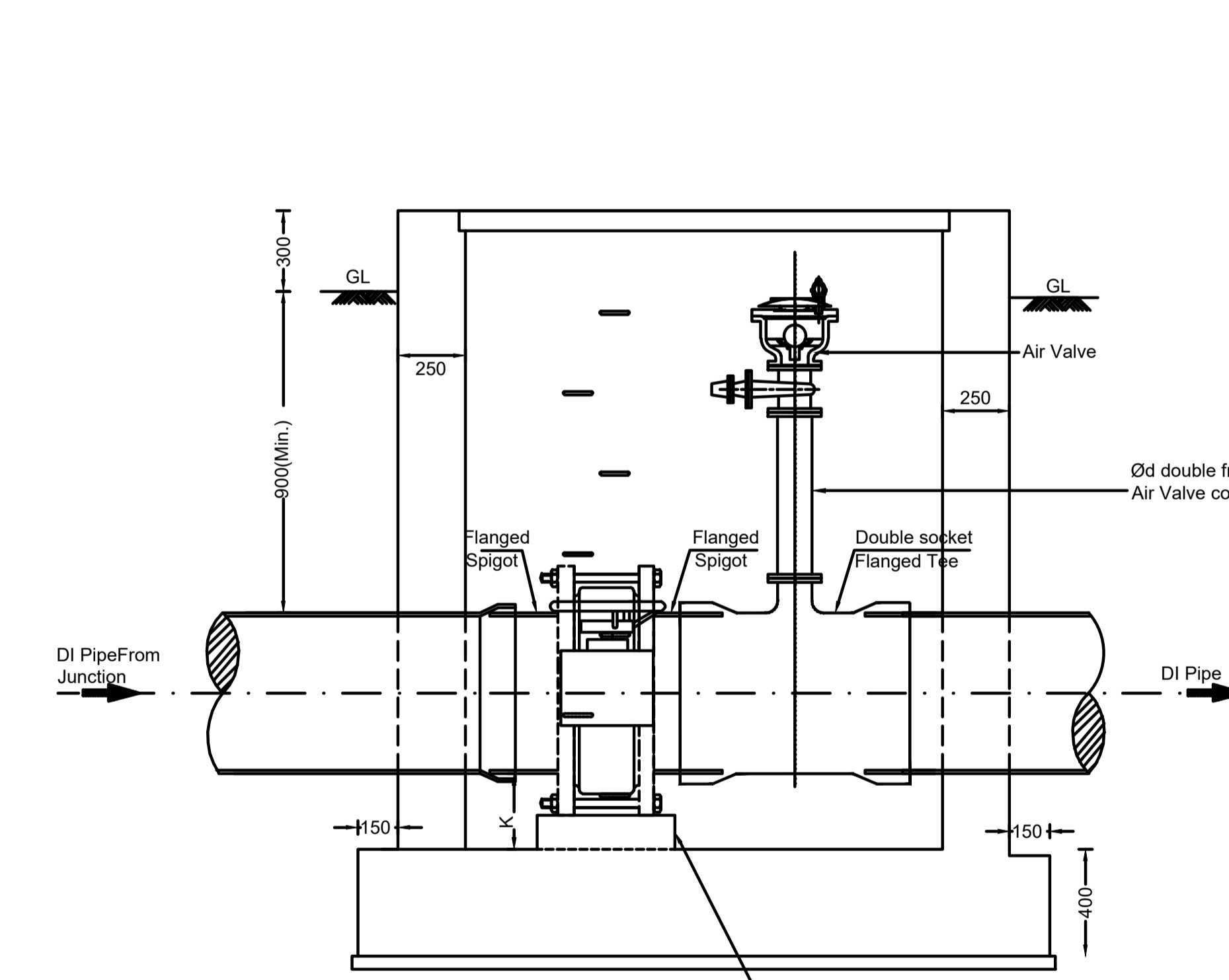
S. No.	Pipe ID	Chainage m	Pipe Dia. ØD mm	Valve Size mm	Associated Valve	Associated Valve size Ød mm	Pressure Rating
1	M2		700	700	AV	150	PN 10
2	M1-S1		500	500	SV	125	PN 6
3	M1-S2		600	600	AV	150	PN 10
4	M1-S3		300	300	SV	80	PN 10
5	M1-S4		500	500	SV	125	PN 10
6	M1-S5		700	700	SV	150	PN 10
7	M2-S1		600	600	SV	150	PN 6
8	M2-S2		500	500	AV	125	PN 10
9	M1-T1		300	300	AV	80	PN 6
10	M1-T2		350	350	SV	80	PN 6
11	M1-T3		350	350	AV	80	PN 6
12	M1-T3.1		350	350	SV	80	PN 6
13	M1-T4		350	350	AV	80	PN 6
14	M1-T5		350	350	SV	80	PN 6
15	M1-T6		300	300	AV	80	PN 6
16	M1-T7		300	300	SV	80	PN 6
17	M1-S1-T2		300	300	AV	80	PN 6
18	M1-S1-T3		300	300	SV	80	PN 6
19	M1-S2-T1		300	300	SV	80	PN 6
20	M1-S2-T2		450	450	AV	100	PN 10
21	M1-S2-T2.2		300	300	AV	80	PN 6
22	M1-S2-T4		300	300	SV	80	PN 10
23	M1-S4-T2		300	300	SV	80	PN 10
24	M1-S4-T3		350	350	SV	80	PN 10
25	M1-S4-T5		350	350	SV	80	PN 6
26	M1-S5-T2		300	300	AV	80	PN 10
27	M1-S5-T3		350	350	AV	80	PN 10
28	M1-S5-T4.1		300	300	AV	80	PN 10
29	M1-S5-T5		300	300	AV	80	PN 10
30	M2-S1-T1.1		350	350	SV	80	PN 6
31	M2-S1-T1.2		300	300	SV	80	PN 6
32	M2-S1-T3		400	400	AV	80	PN 6
33	M2-S2-T1		350	350	AV	80	PN 6
34	M2-S2-T2		350	350	AV	80	PN 6



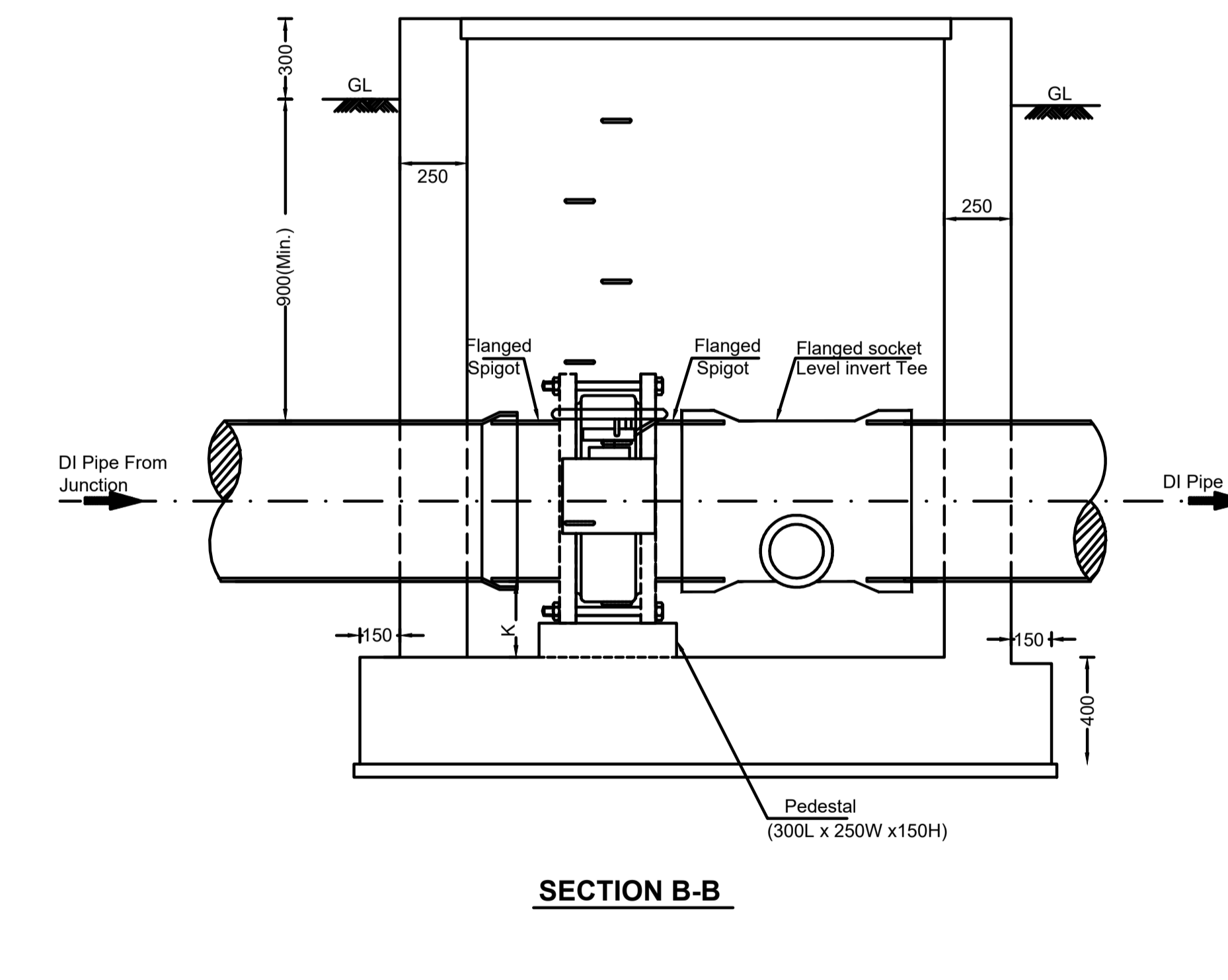
PLAN



PLAN



SECTION A-A



SECTION B-B

S.No.	MAIN PIPE MATERIAL	MAIN PIPE ID (mm)	VALVE DIA. (NB) (mm)	L	W
1	DI	300	300	2000	1300
2	DI	350	350	2000	1300
3	DI	400	400	2000	1700
4	DI	450	450	2000	1700
5	DI	500	500	2000	1900
6	DI	600	600	2100	2100
7	DI	700	700	2100	2100

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

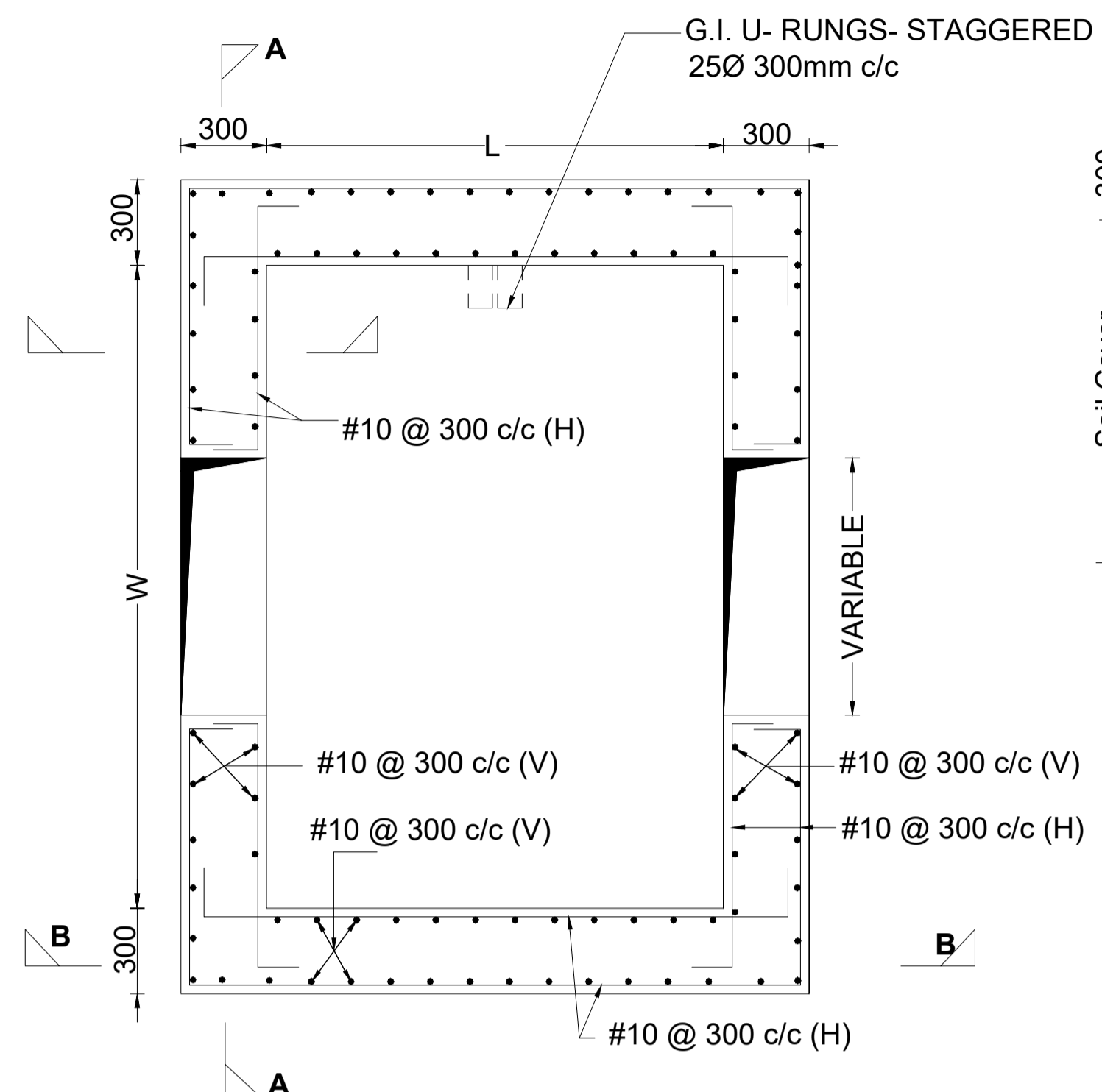
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF
BUTTERFLY VALVE CHAMBER FOR DI PIPES
(300 TO 600 mm Dia.)**

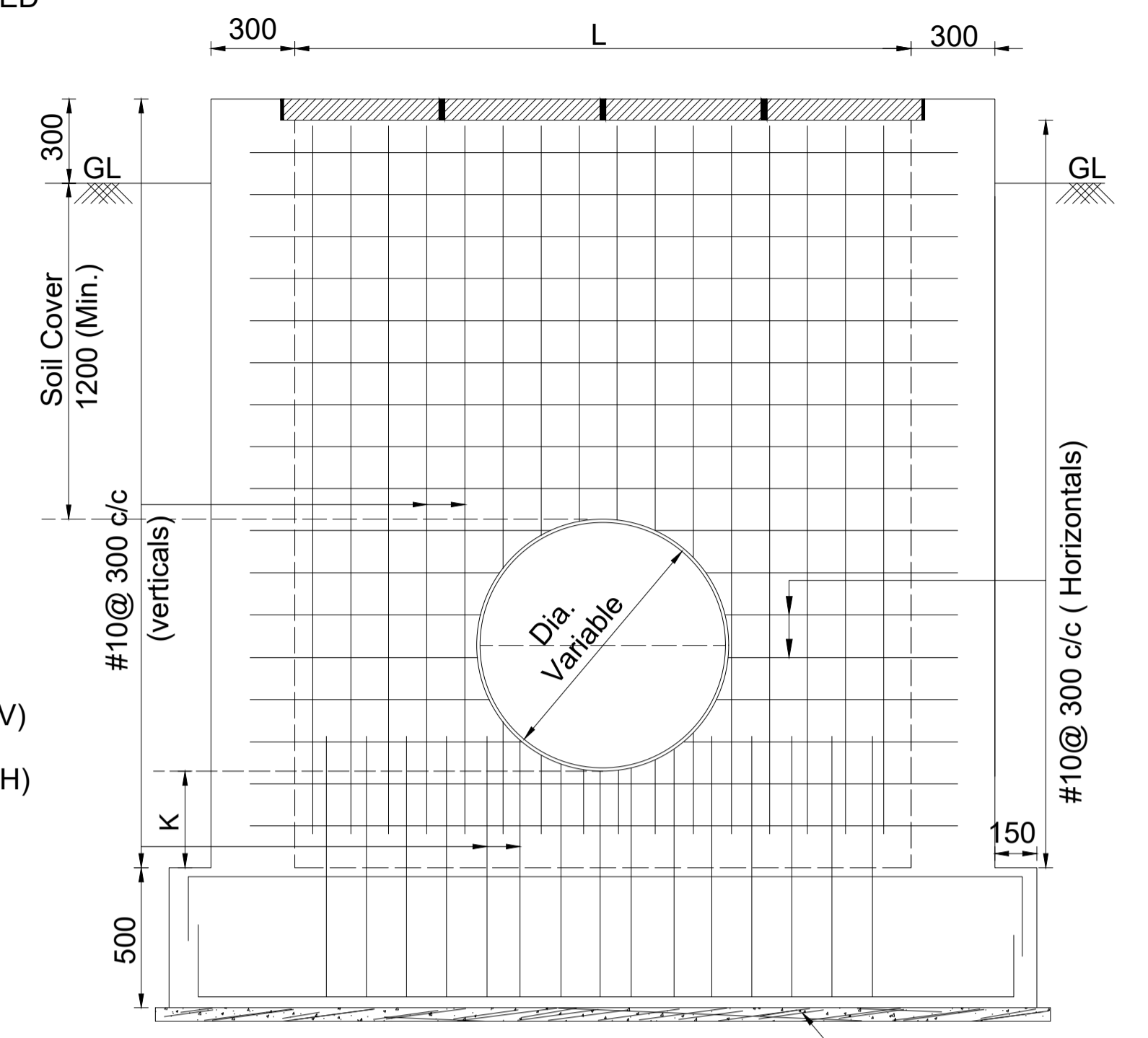
Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTES:-

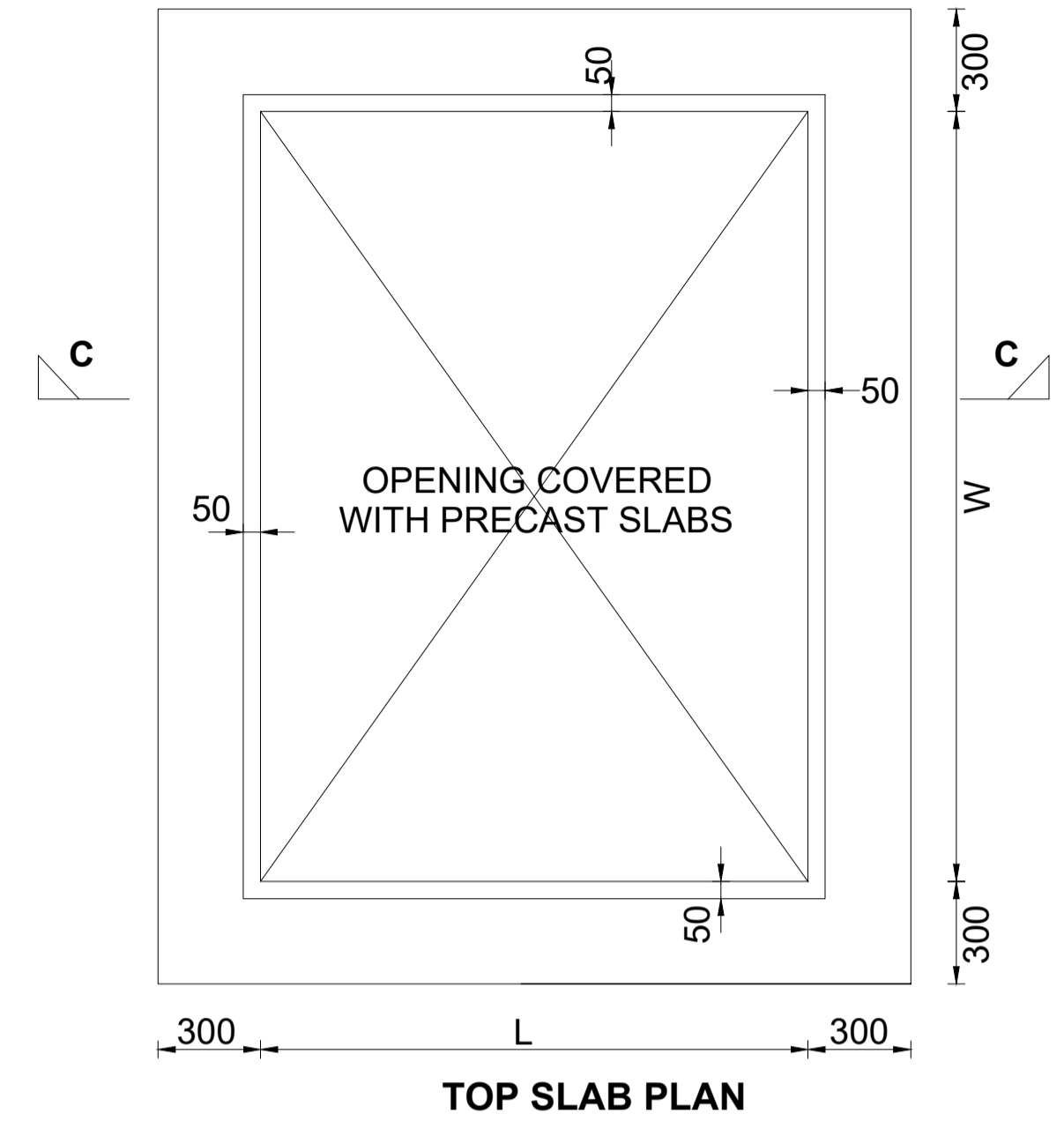
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
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 3. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20
 4. YIELD STRENGTH OF STEEL IS 450 N / Sq.mm
 5. LAP LENGTHS / DEVELOPMENT LENGTHS SHALL BE 50 x DIA. OF BAR.
 6. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE FOR WALLS & BASE SLAB : 50 mm , TOP SLAB : 15 mm.
 7. THE GAPS IN PRECAST COVER SLAB PANELS SHALL BE SEALED WITH BITUMEN AFTER INSTALLATION OF BFV.
 8. BASE SLAB SHALL REST ON FIRM STRATA WITH SBC NOT LESS THAN 50 kN / Sq.mm
- BACKFILLING SHALL BE WITH SOILS WITH Ø VALUE NOT LESS THAN 32



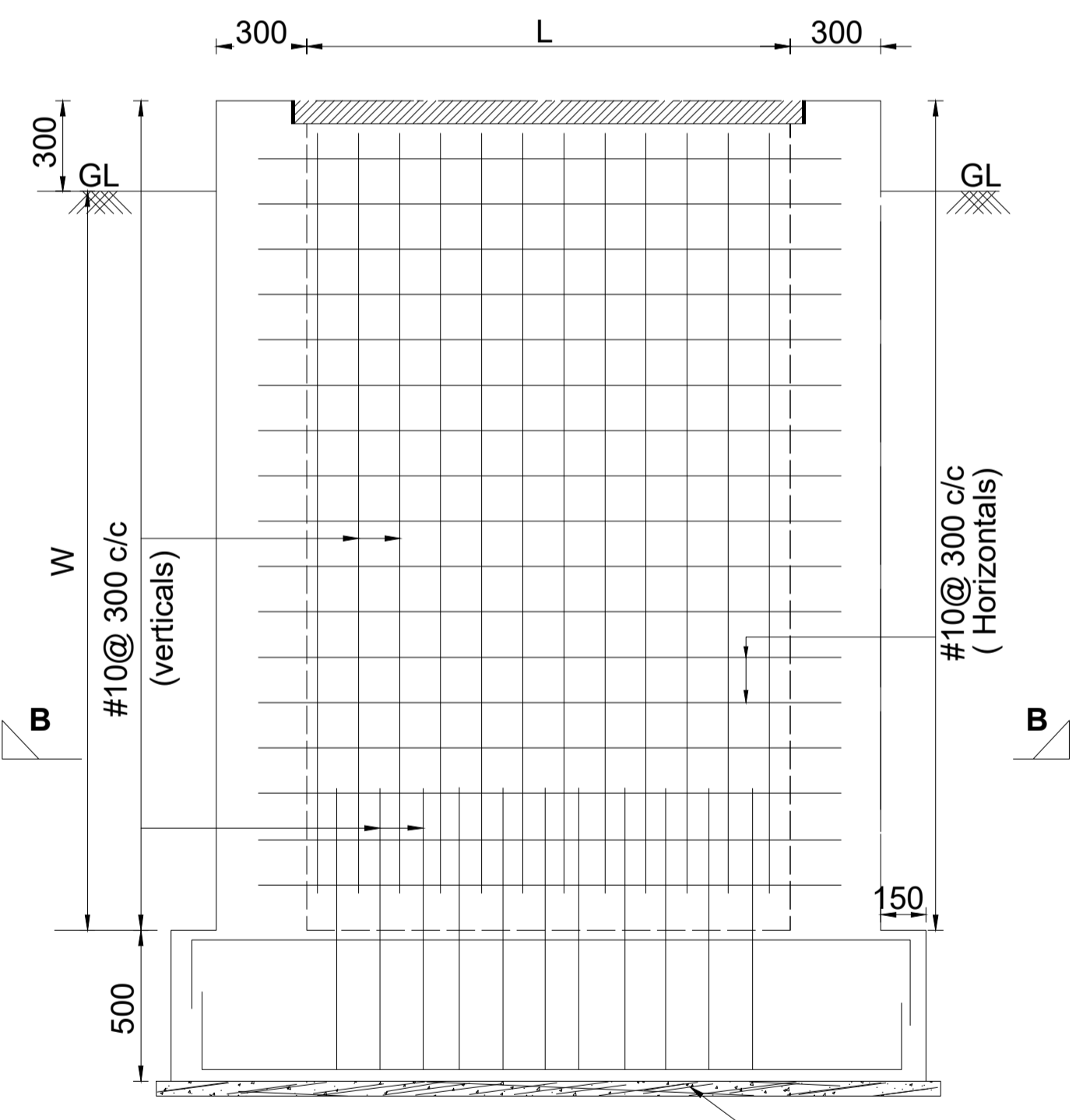
PLAN



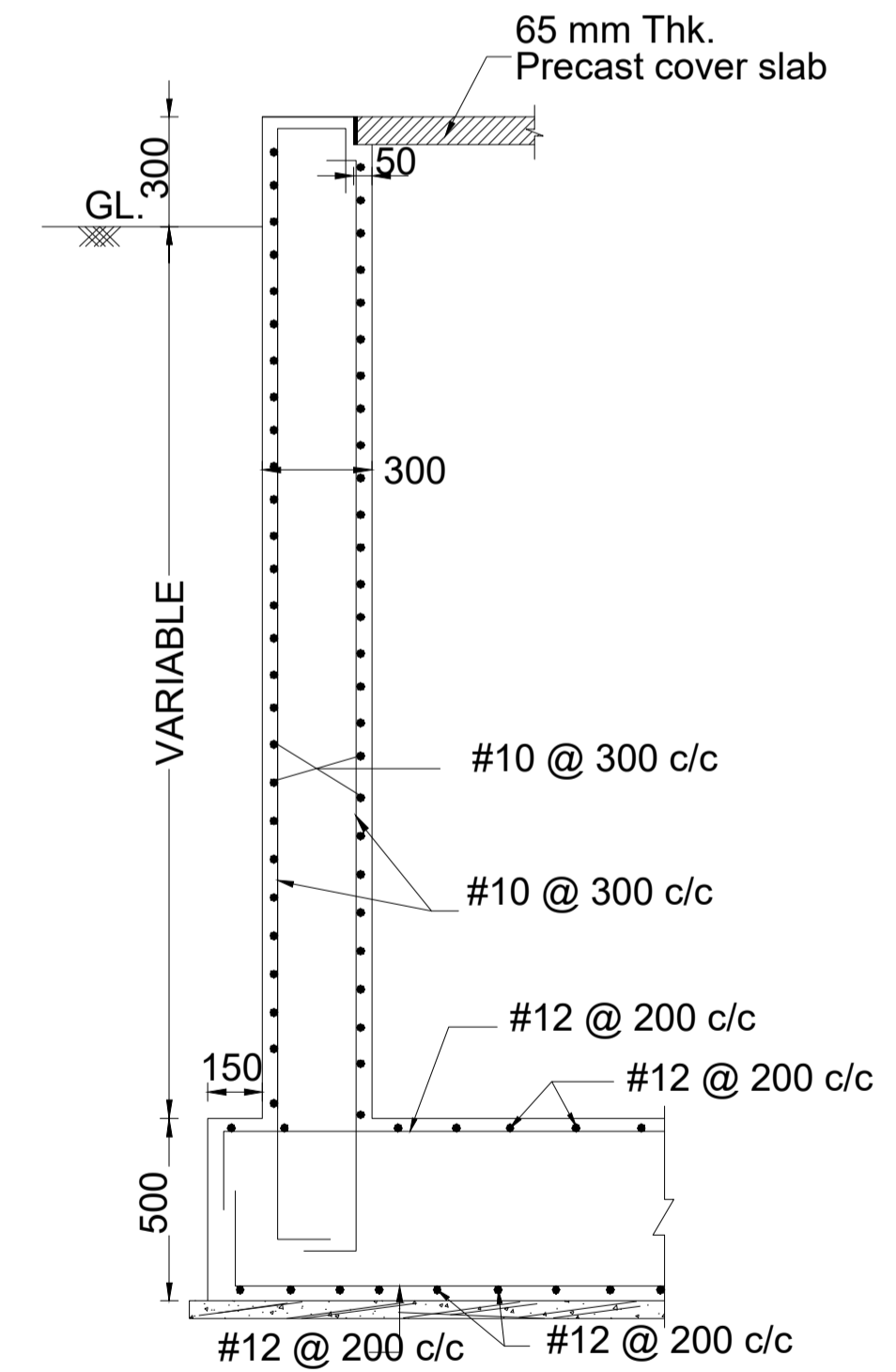
SECTION A-A



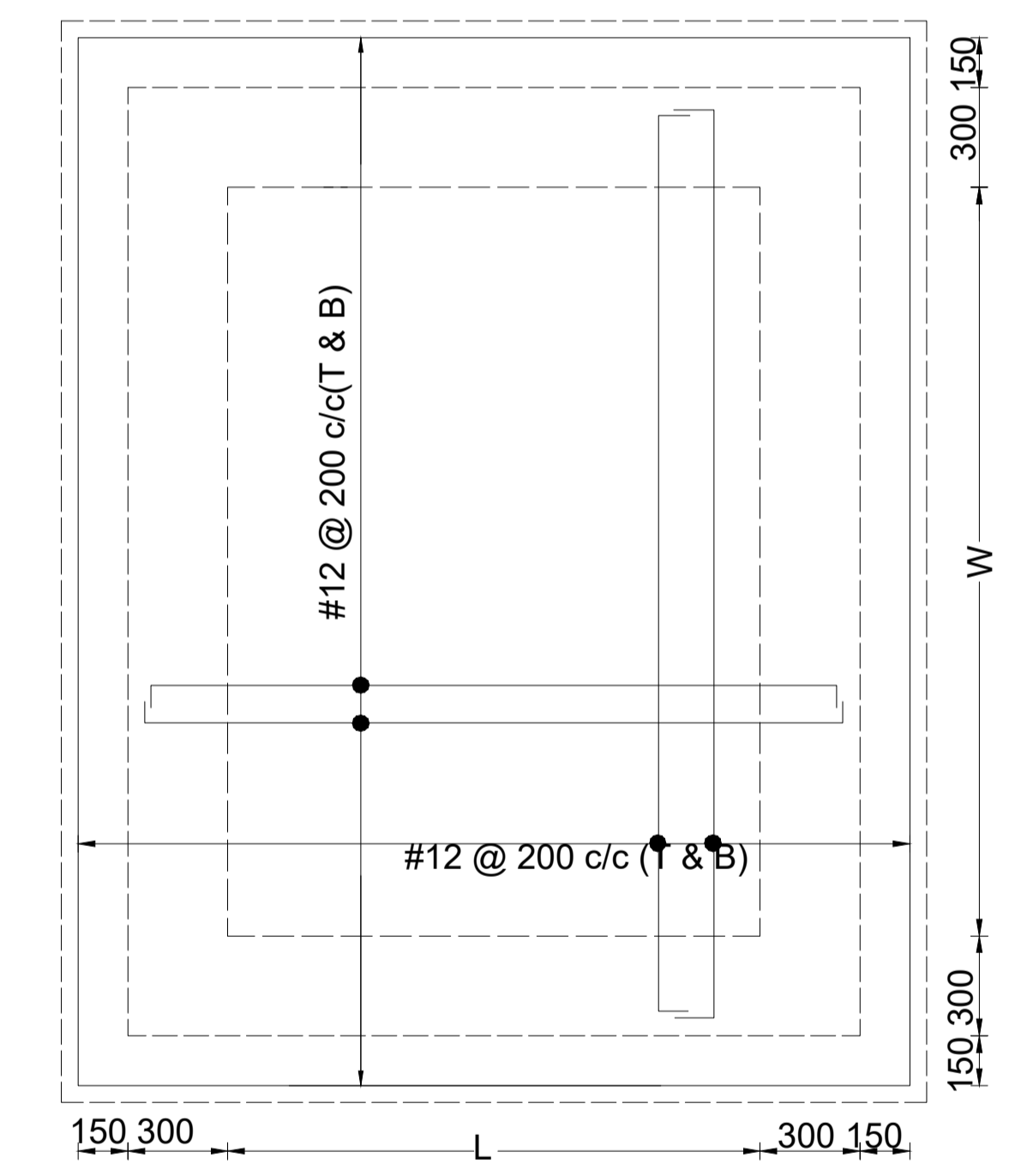
TOP SLAB PLAN



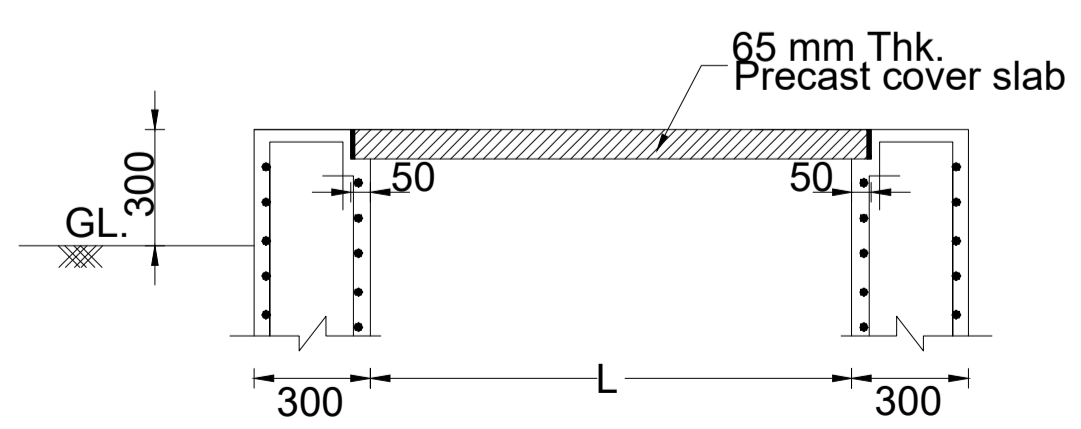
SECTION B-B



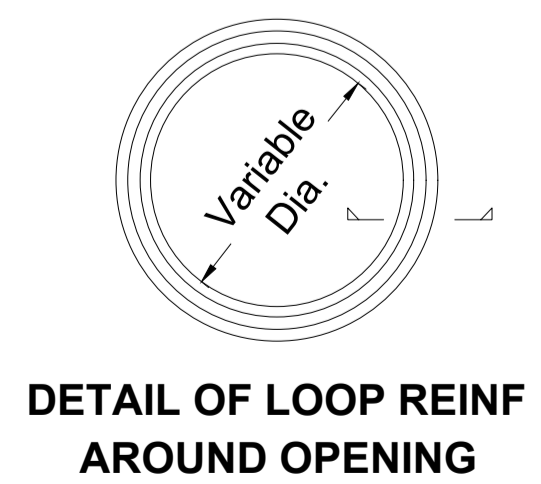
SECTION C-C



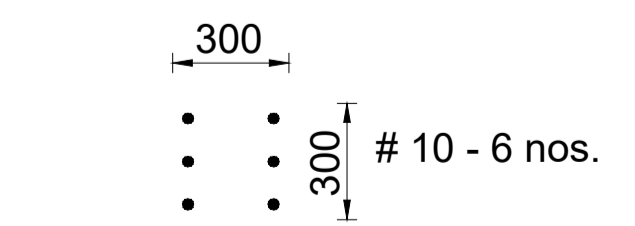
BASE SLAB PLAN



SECTION D-D



DETAIL OF LOOP REINF AROUND OPENING



DETAIL OF DRAIN PIT

LEGEND:

- TOP BAR (T)
- BOTTOM BAR (B)

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

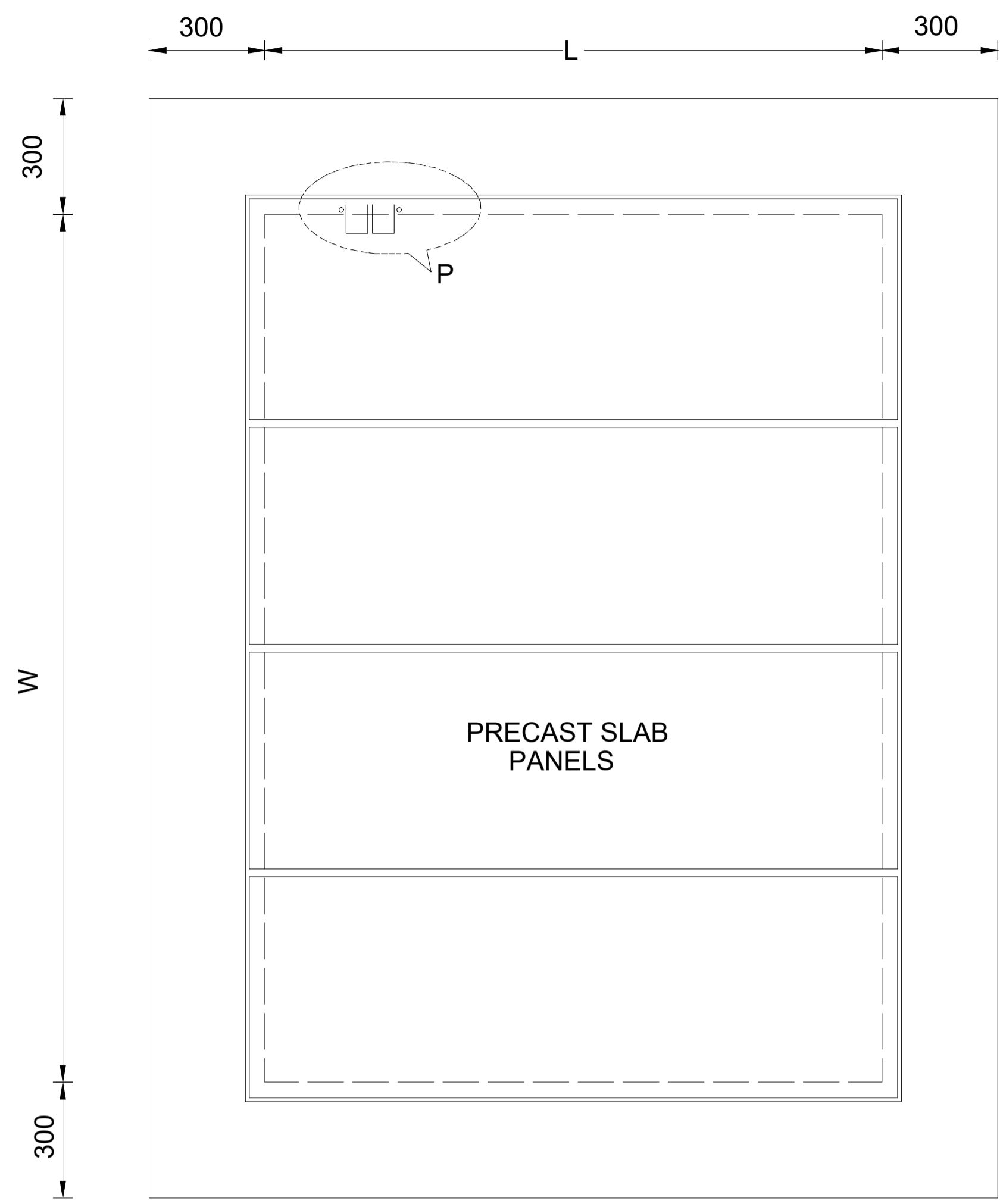
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **REINFT. DETAILS OF BUTTERFLY VALVE CHAMBER FOR DI PIPES (700 TO 900 mm Dia.)**

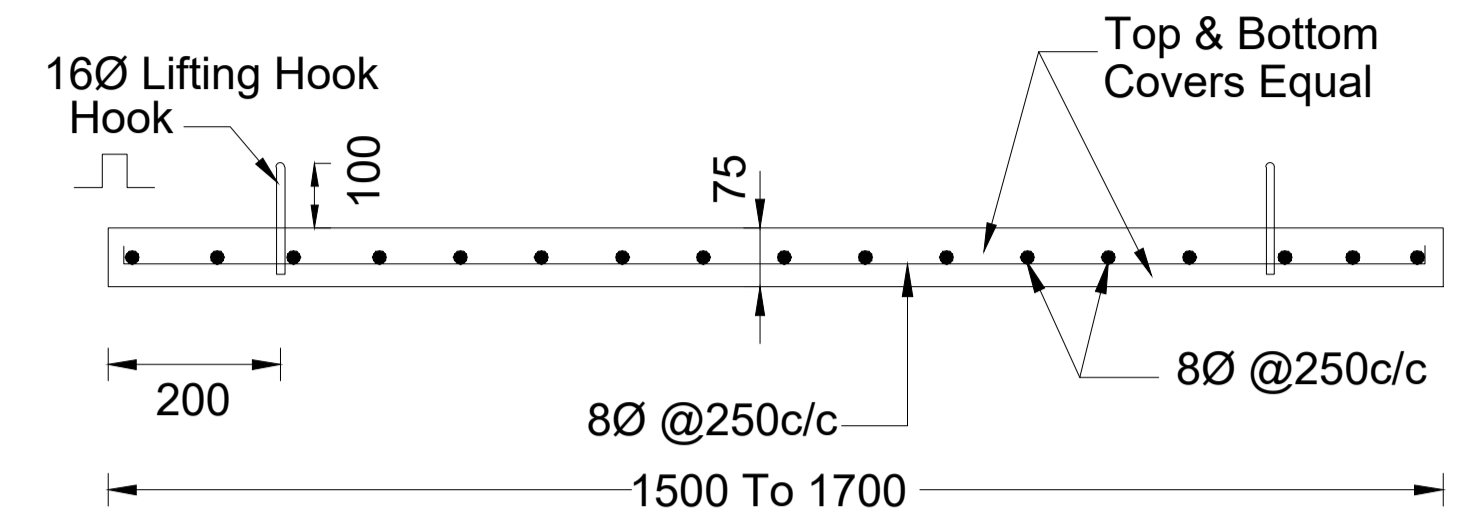
Consultants : **aarvee associates**
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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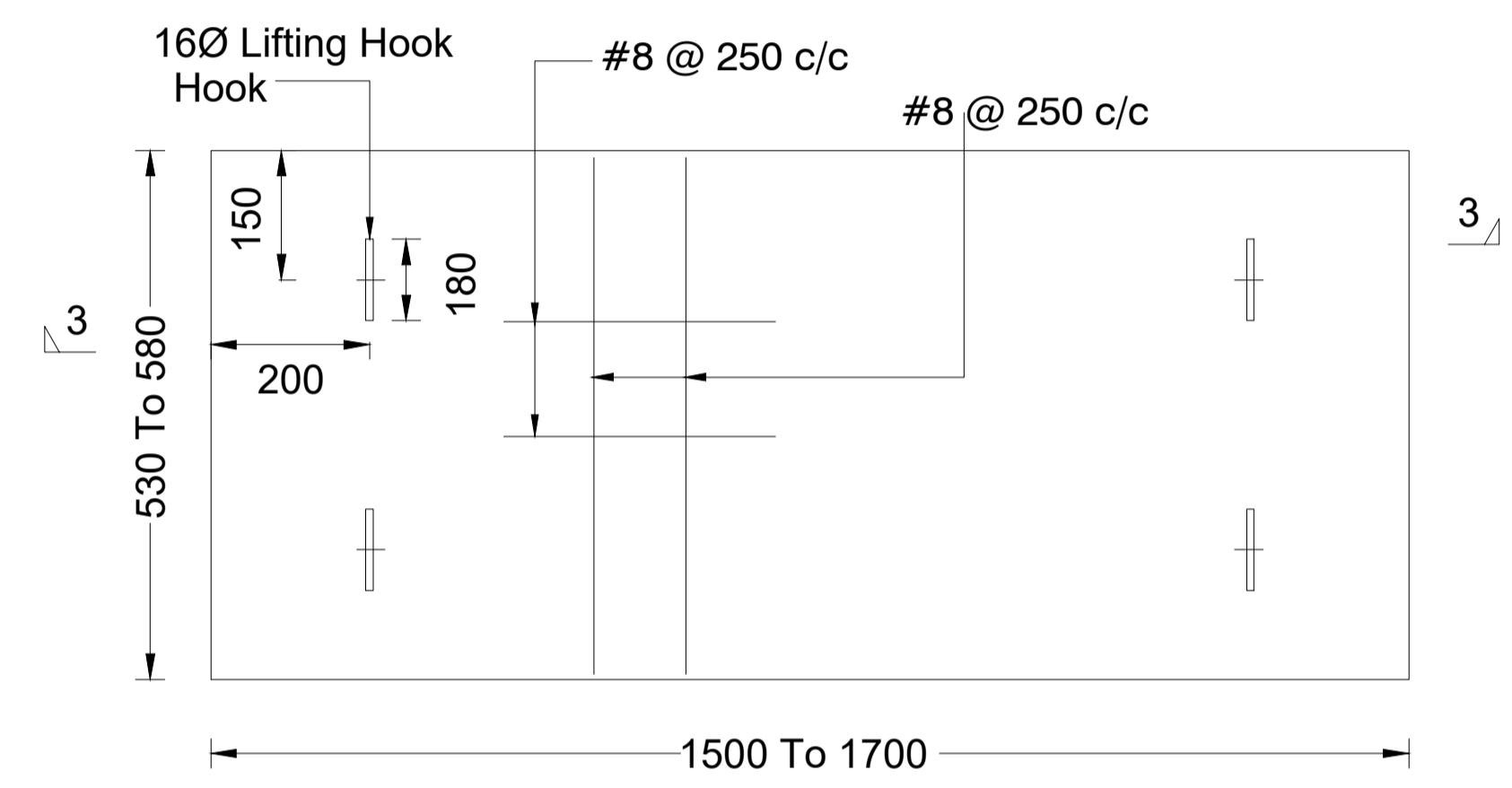
- 1) ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
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- 3) THE GAPS IN PRECAST COVER SLAB PANELS SHALL BE SEALED WITH BITUMEN AFTER INSTALLATION OF BFV.



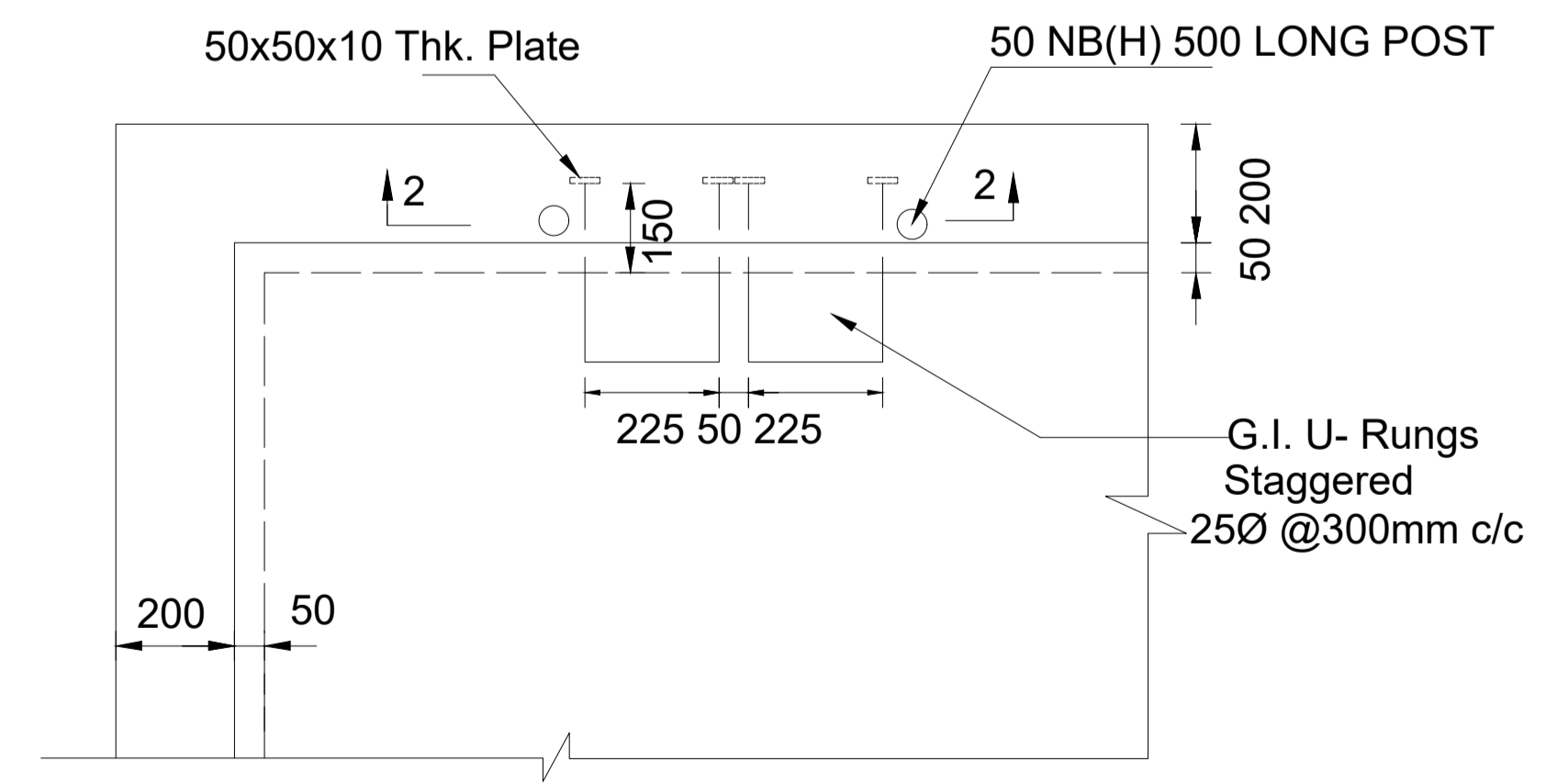
**PLAN
TOP SLAB OPENING**



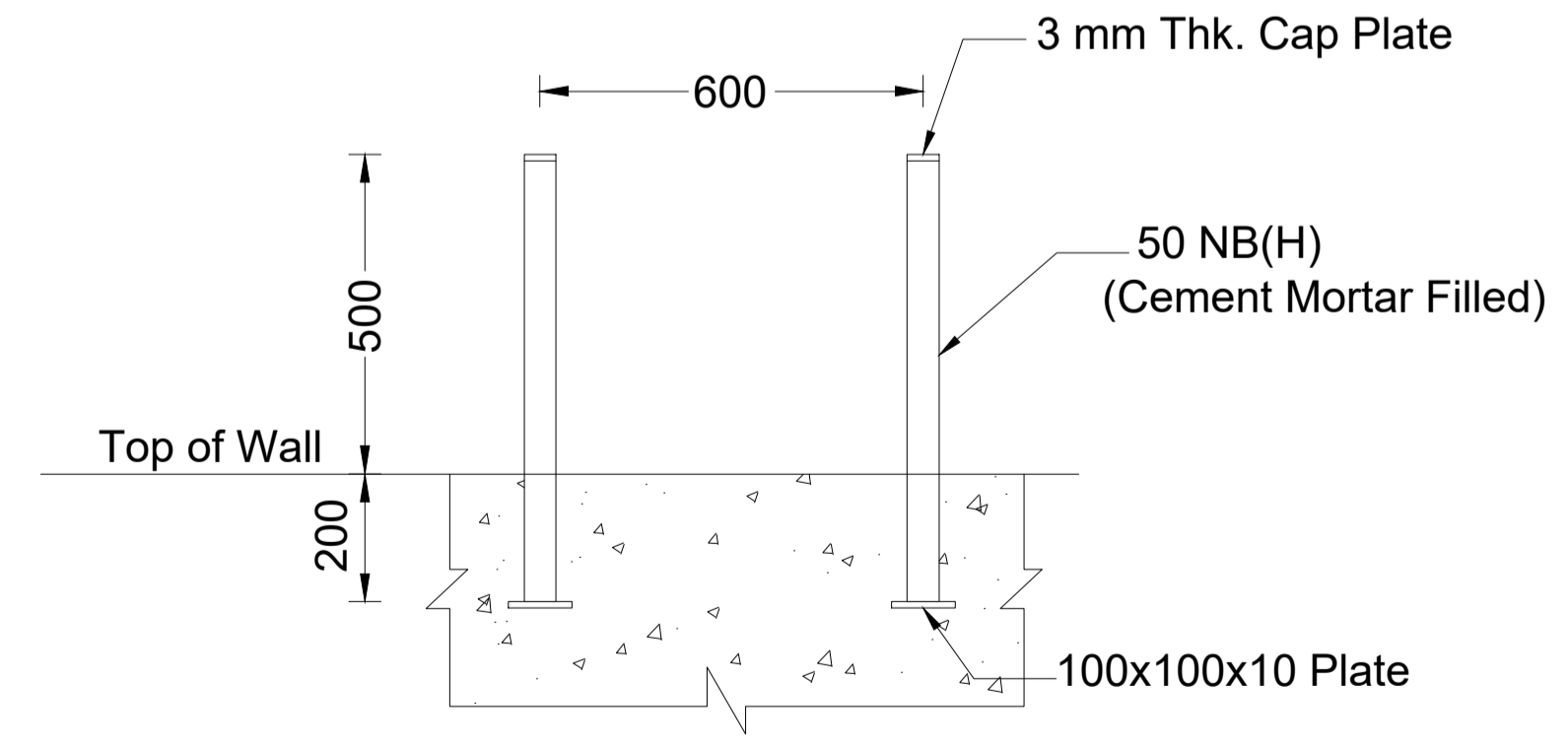
SECTION : 3-3



**PLAN
PRECAST COVER PANELS**



DETAIL - P



SECTION : 2-2

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

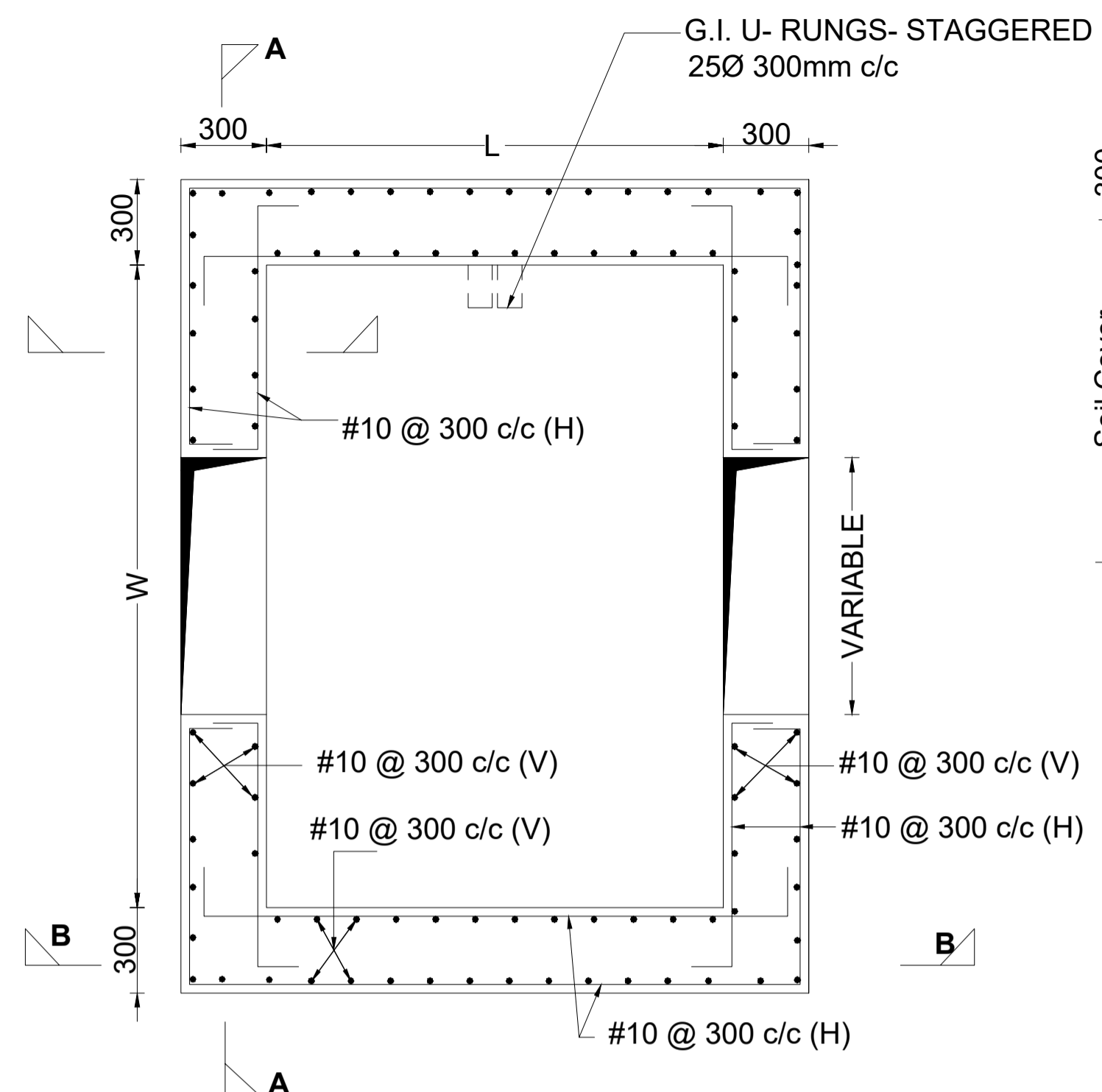
Project : KABUYANDA IRRIGATION SCHEME

Title : **REINFT. DETAILS OF
PRECAST COVER PANELS FOR DI PIPES
(700 TO 900 mm Dia.)**

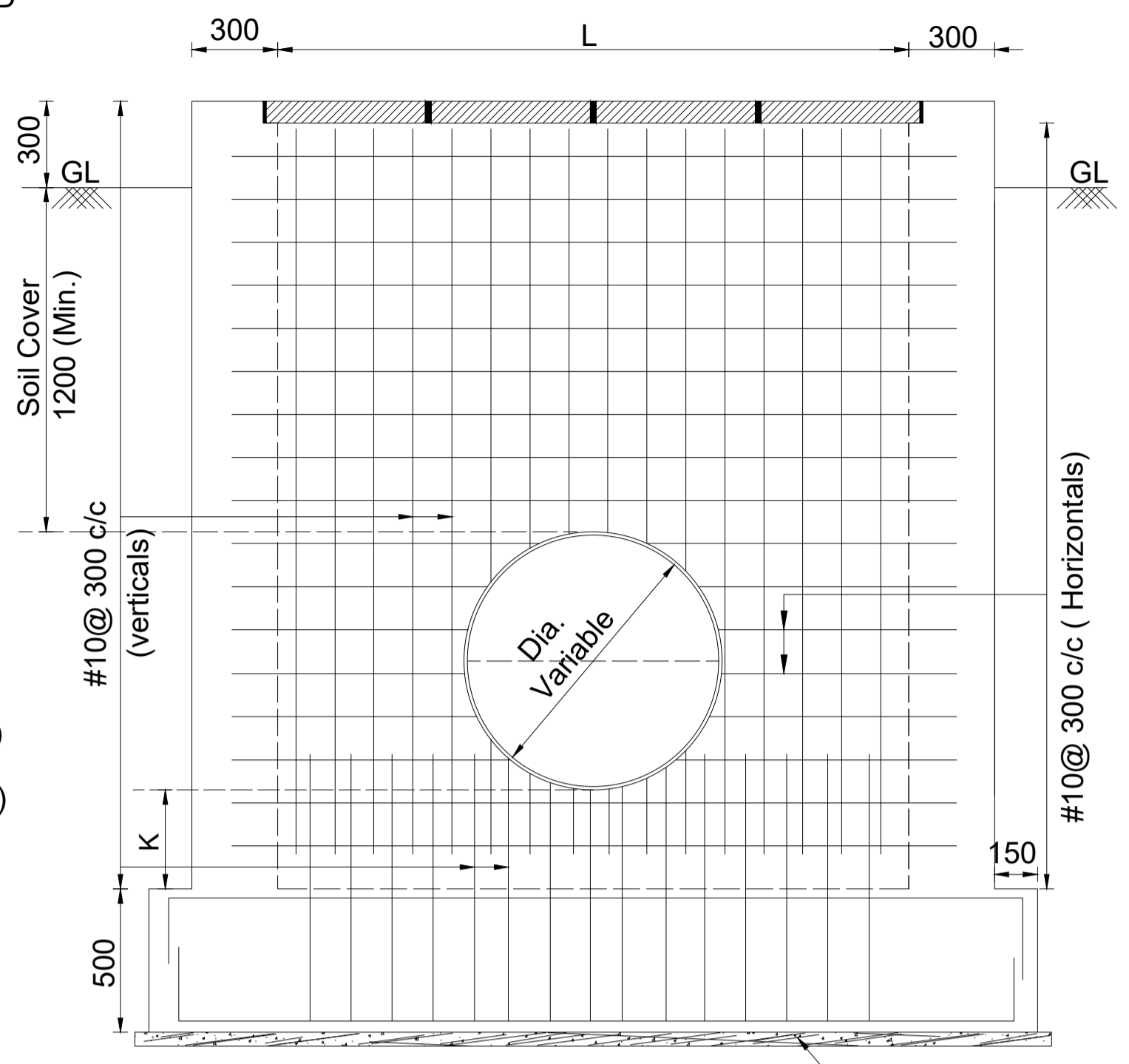
Consultants : 
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Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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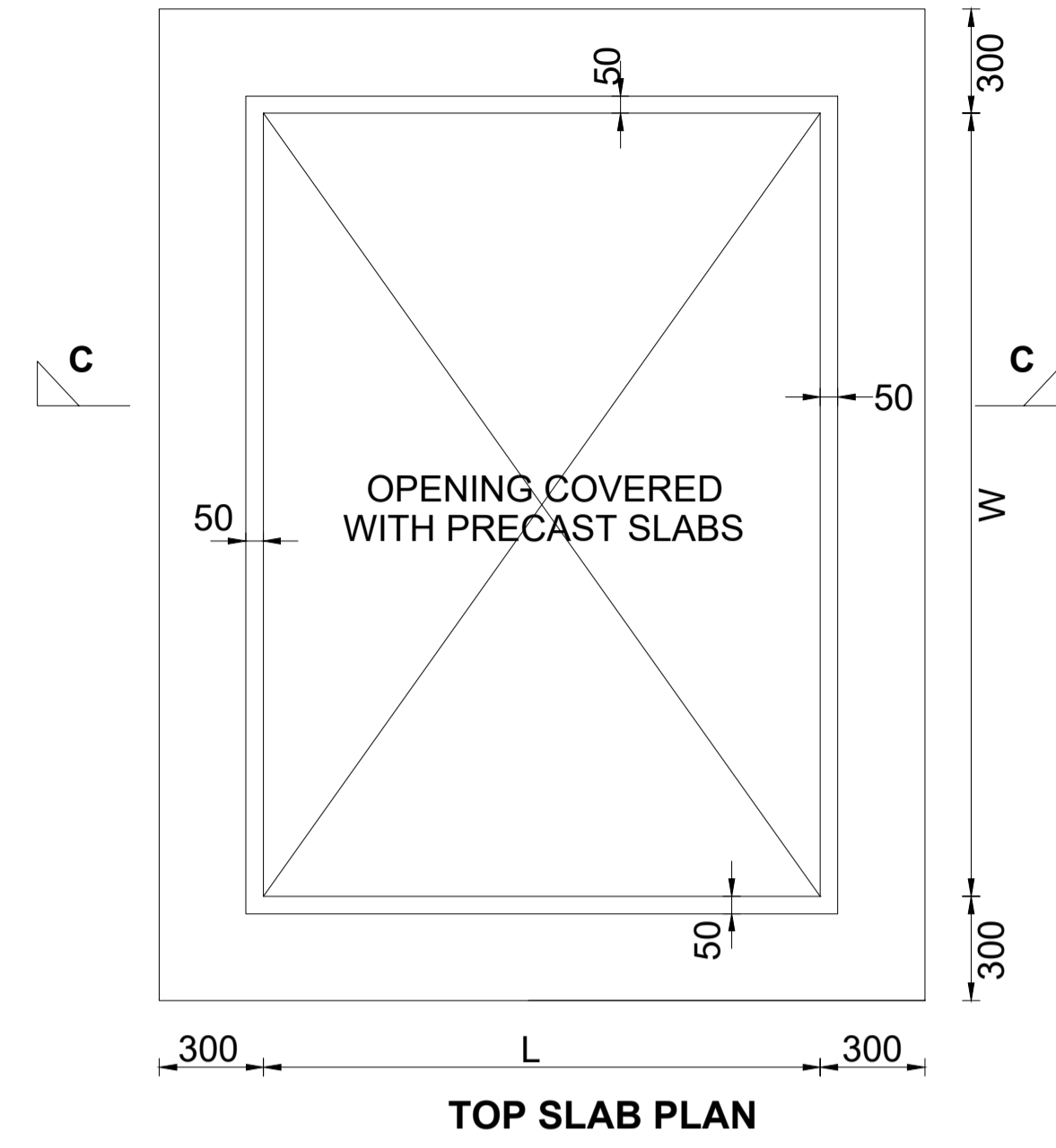
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 8. BASE SLAB SHALL REST ON FIRM STRATA WITH SBC NOT LESS THAN 50 kN / Sq.mm
- BACKFILLING SHALL BE WITH SOILS WITH ϕ VALUE NOT LESS THAN 32°



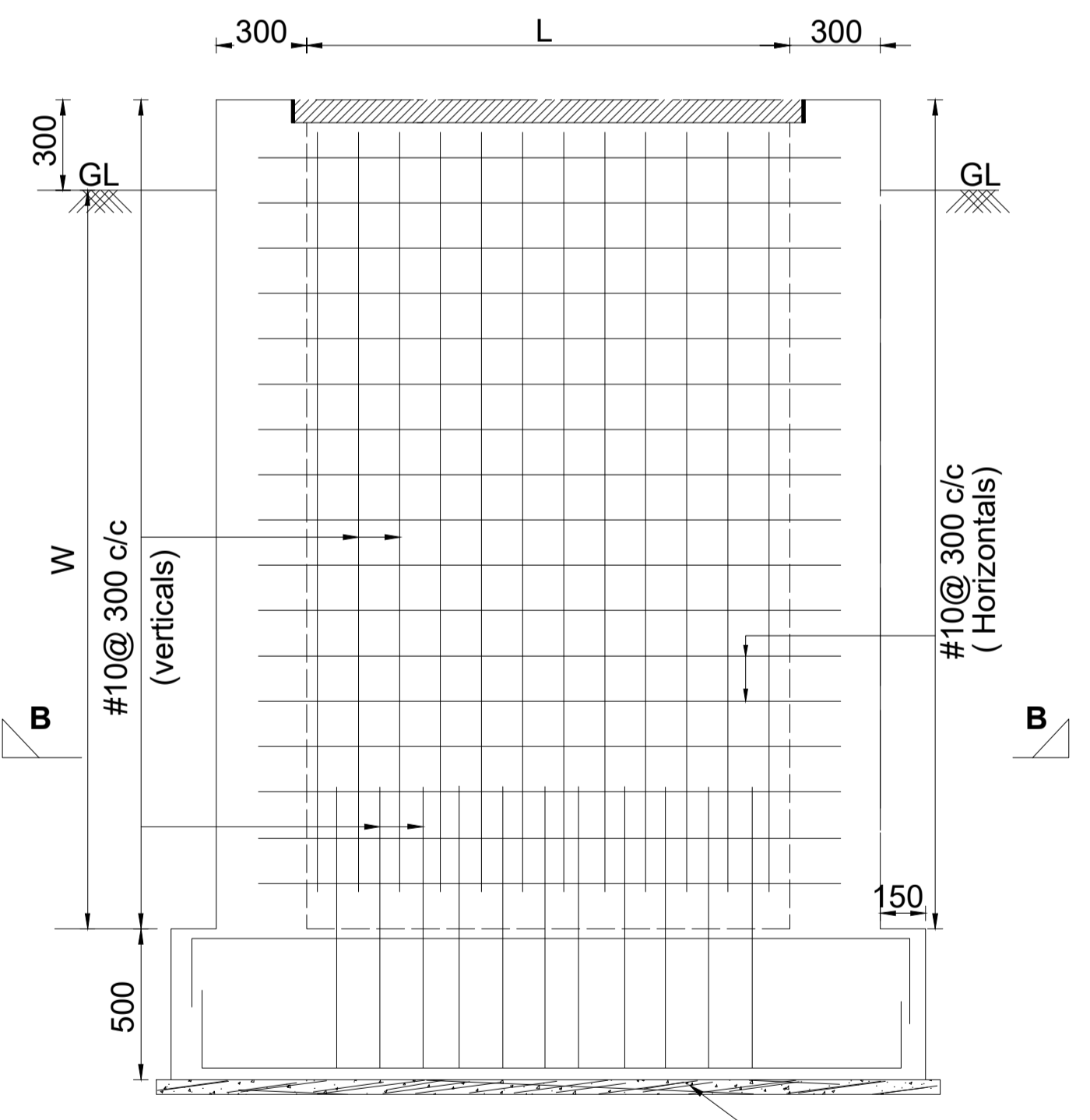
PLAN



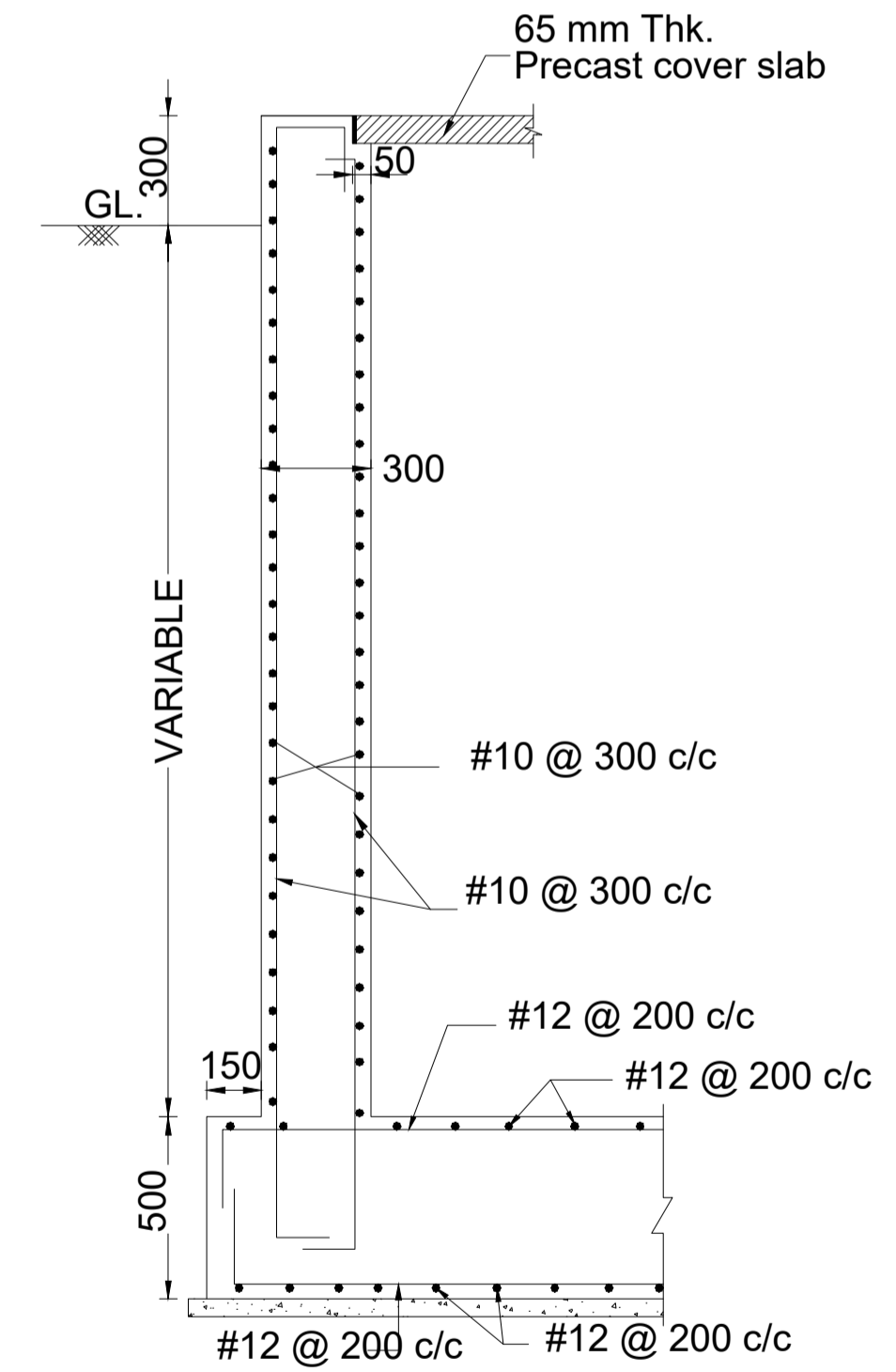
SECTION A-A



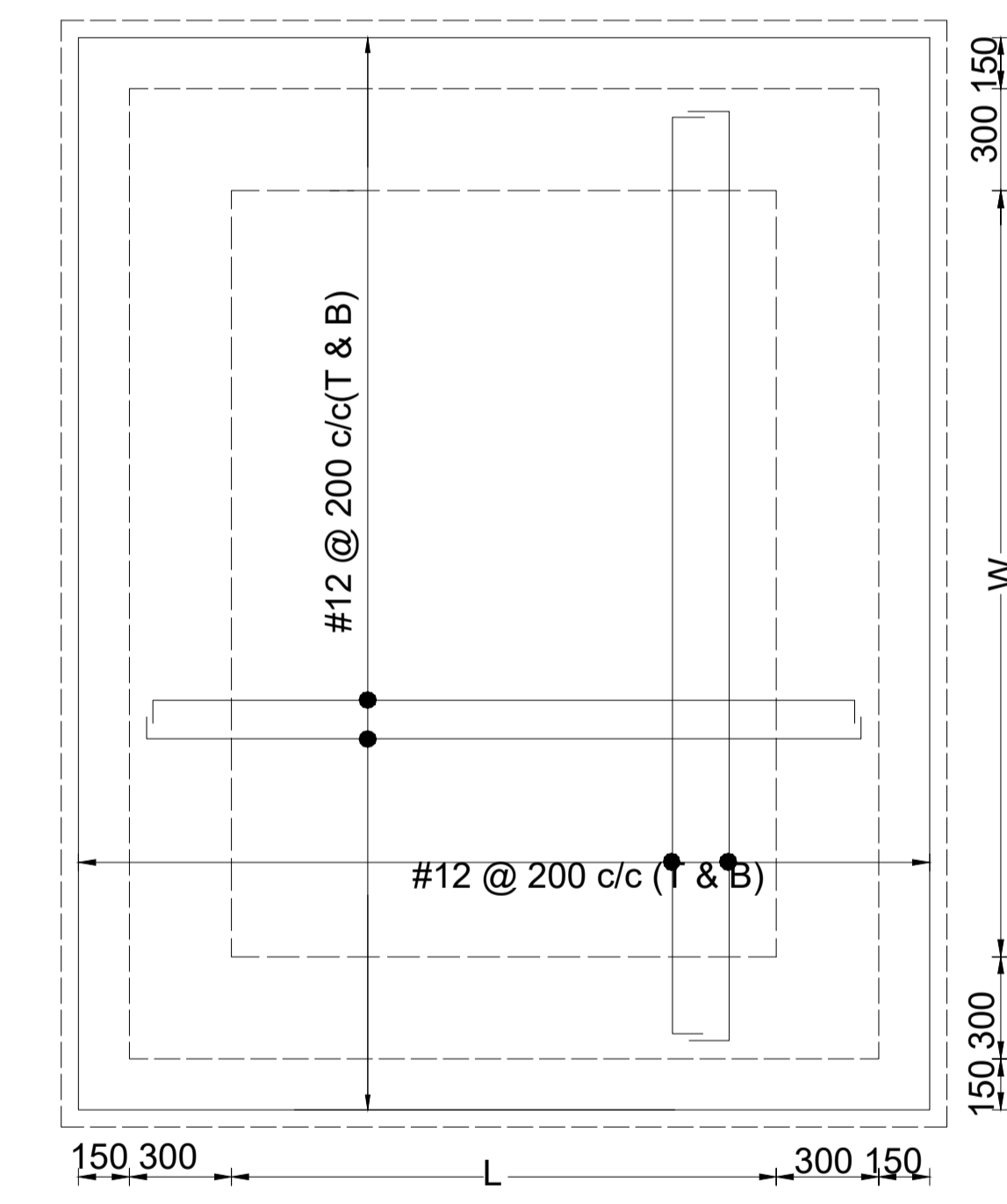
TOP SLAB PLAN



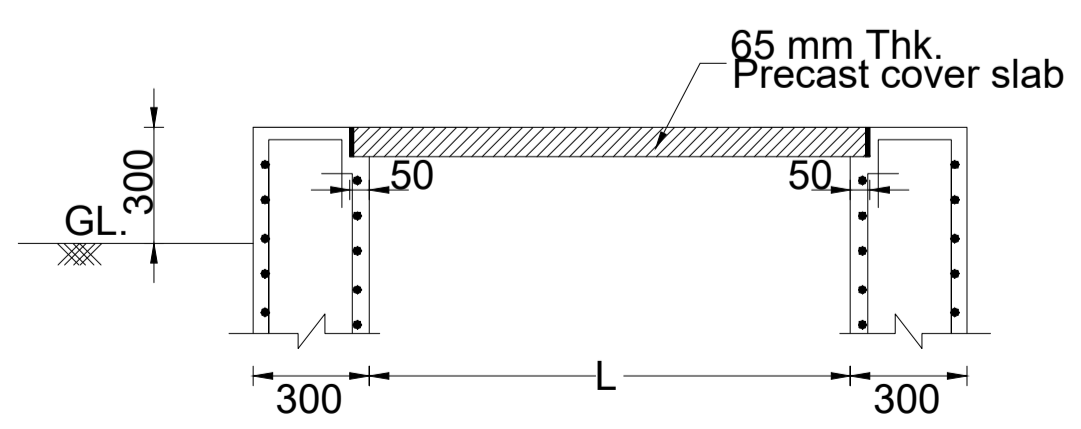
SECTION B-B



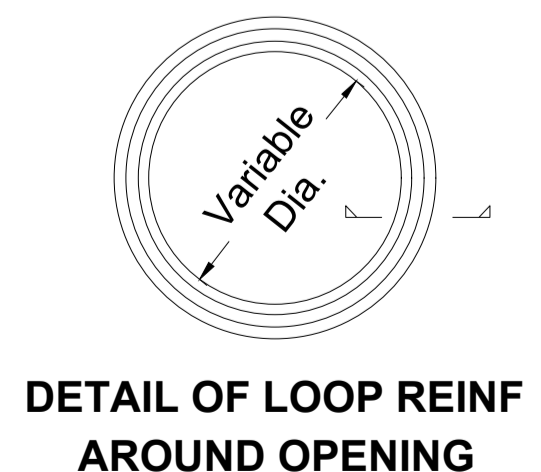
SECTION C-C



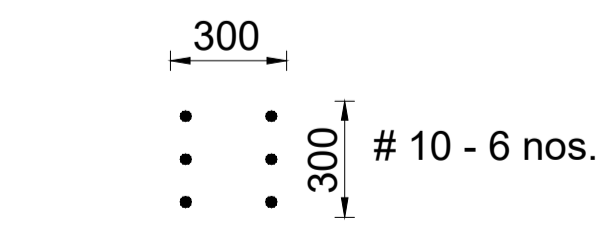
BASE SLAB PLAN



SECTION D-D



DETAIL OF LOOP REINF AROUND OPENING



DETAIL OF DRAIN PIT

LEGEND:

- TOP BAR (T)
- BOTTOM BAR (B)

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

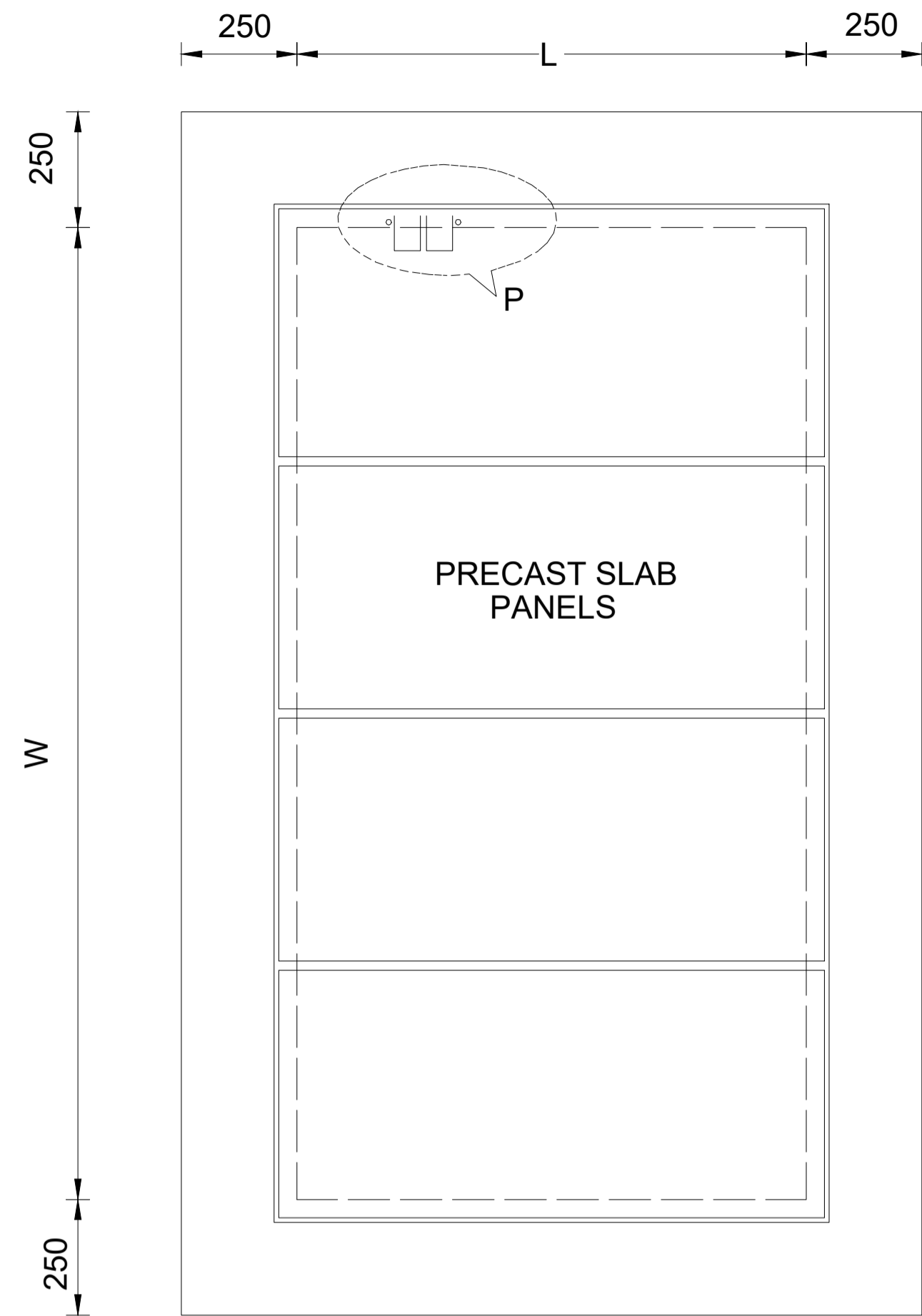
Project : **KABUYANDA IRRIGATION SCHEME**

Title : **REINFT. DETAILS OF BUTTERFLY VALVE CHAMBER FOR DI PIPES (300 TO 600 mm Dia.)**

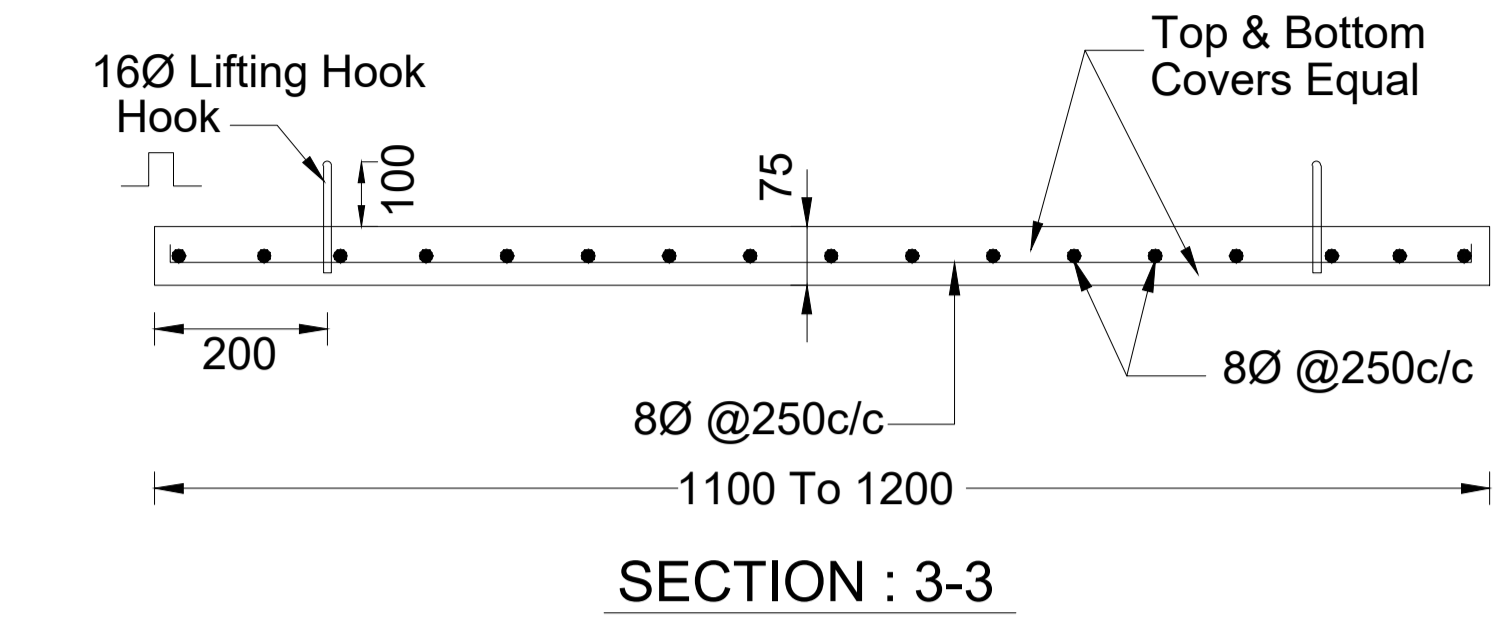
Consultants : 
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NOTES:-

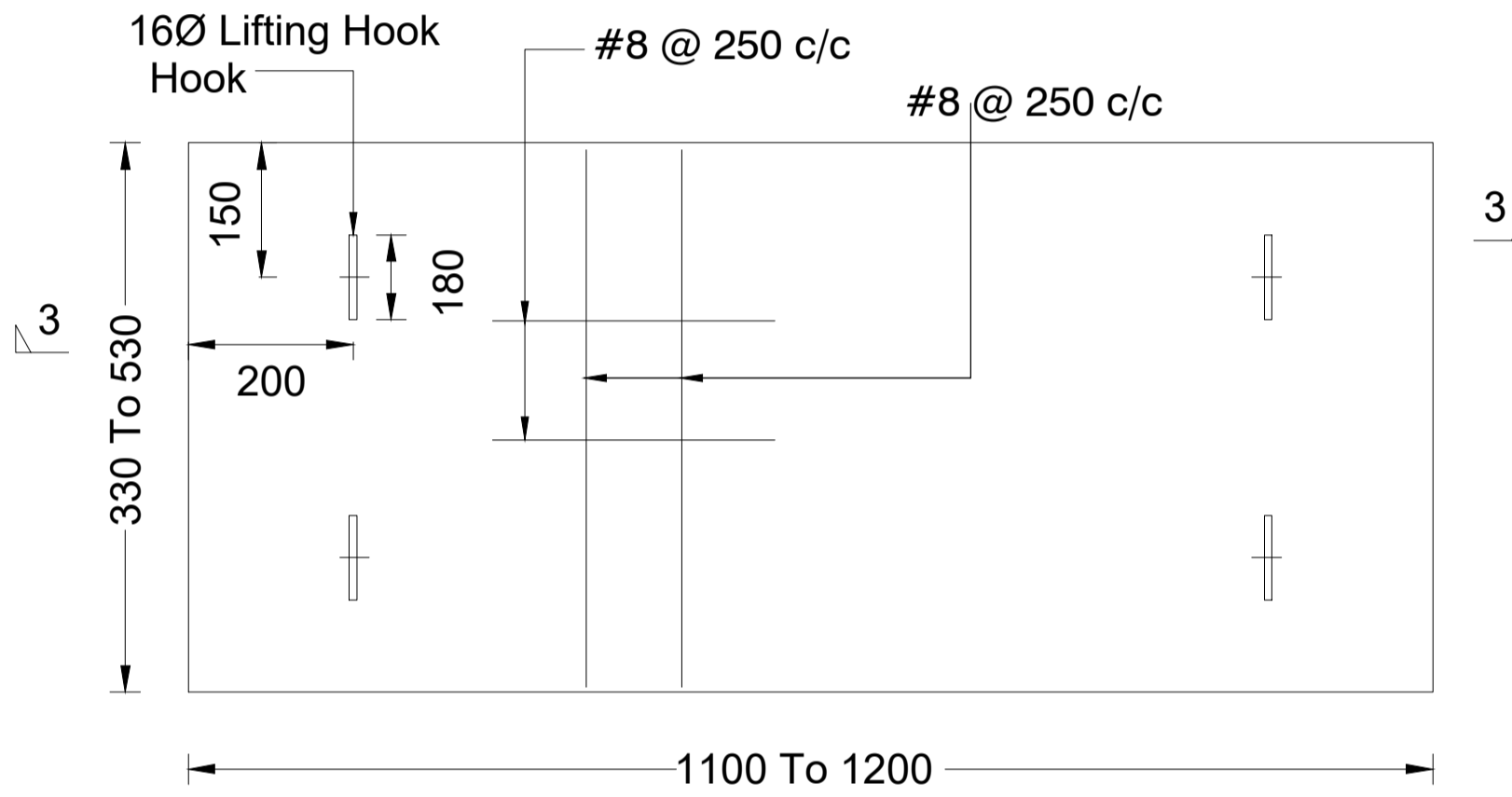
- 1) ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.



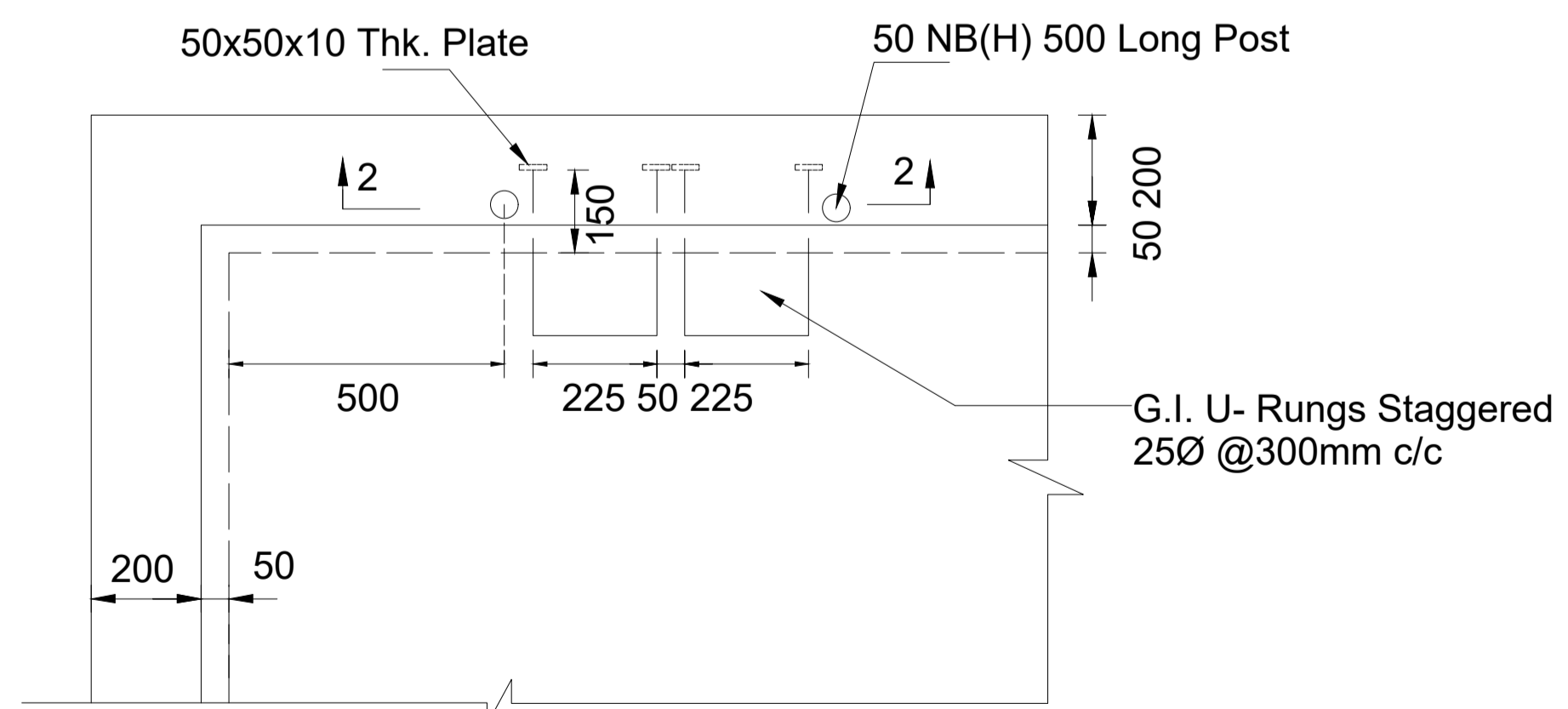
PLAN TOP SLAB OPENING



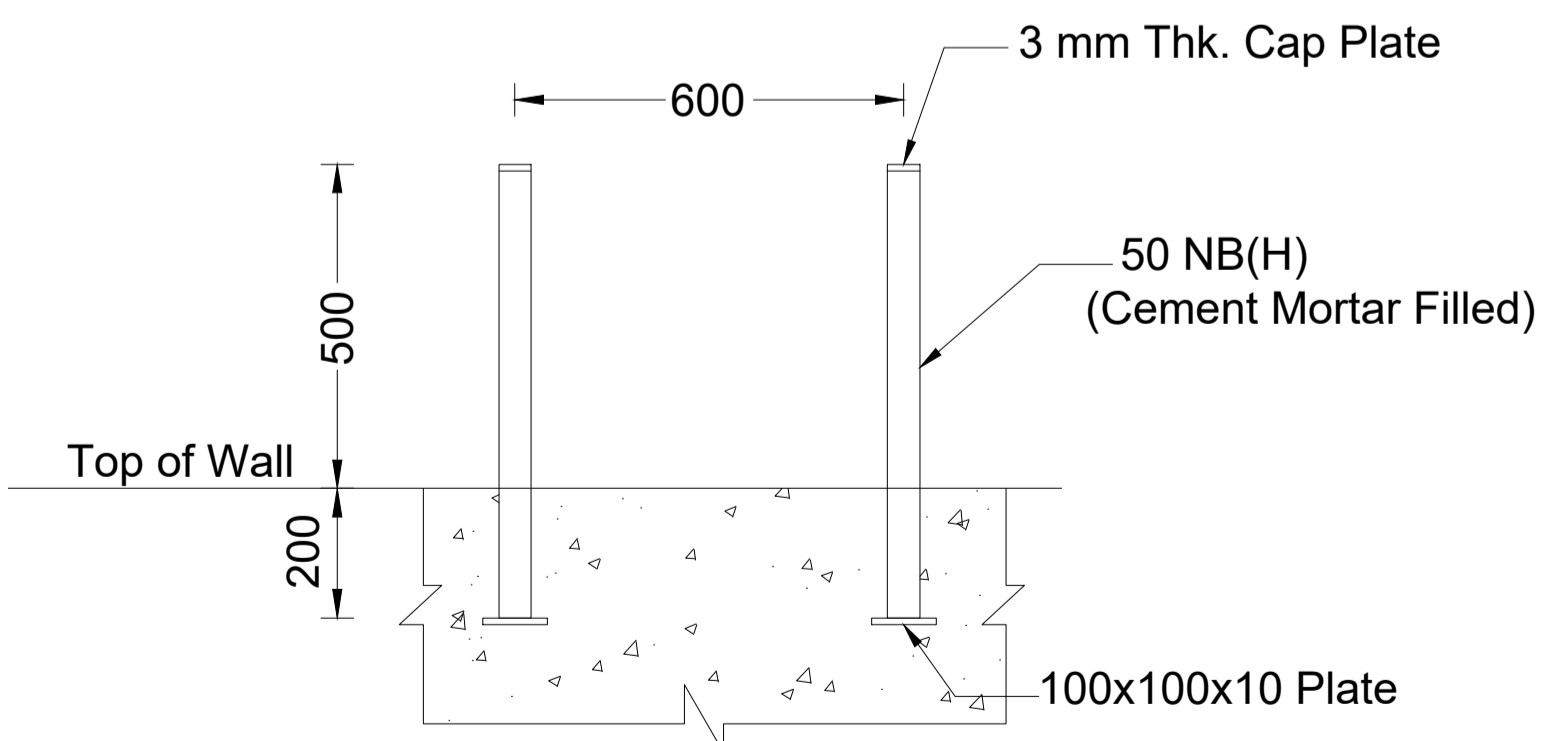
SECTION : 3-3



PLAN PRECAST COVER PANELS



DETAIL - P



SECTION : 2-2

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : REINFT. DETAILS OF BUTTERFLY VALVE CHAMBER FOR DI PIPES (300 TO 600 mm Dia.)

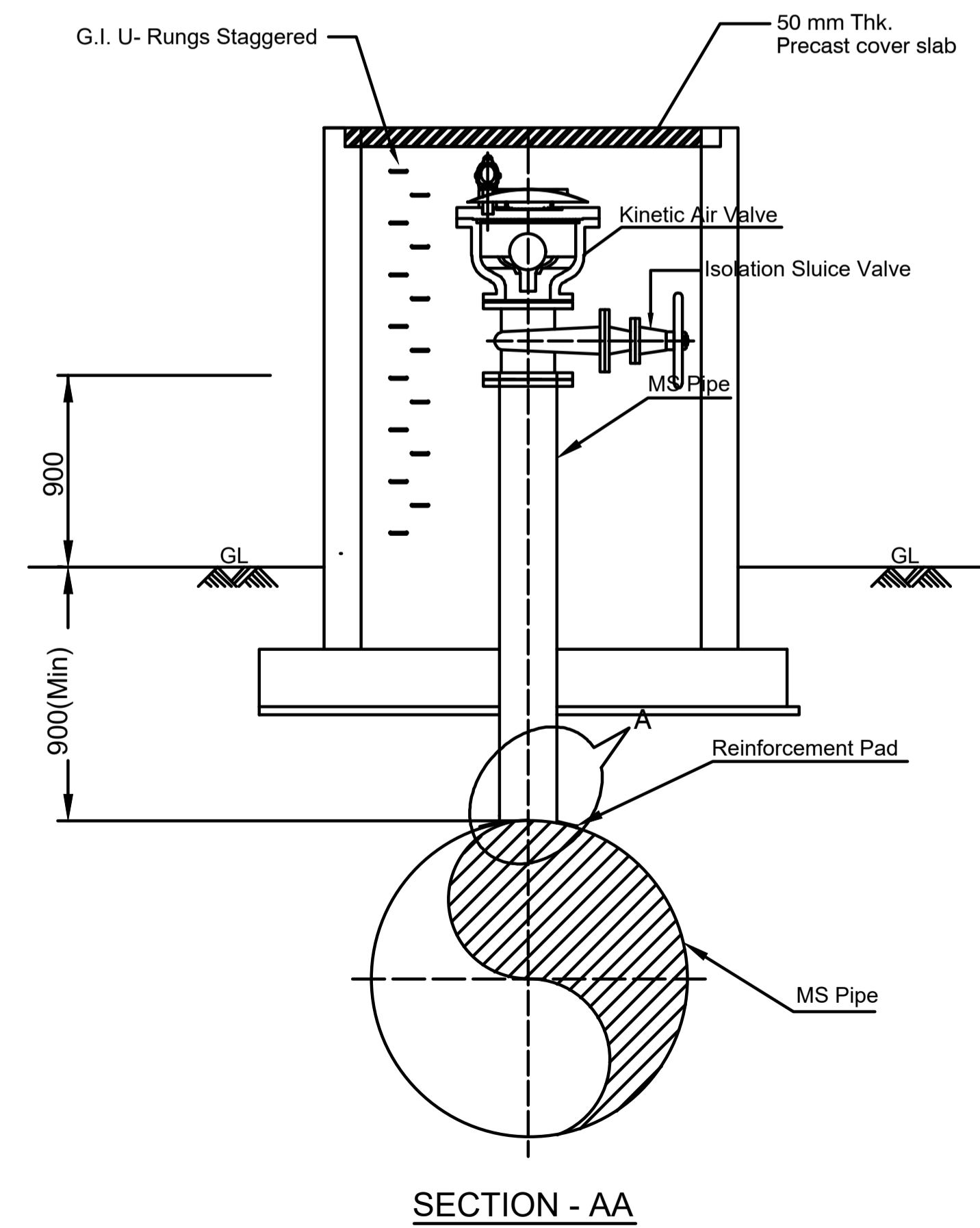
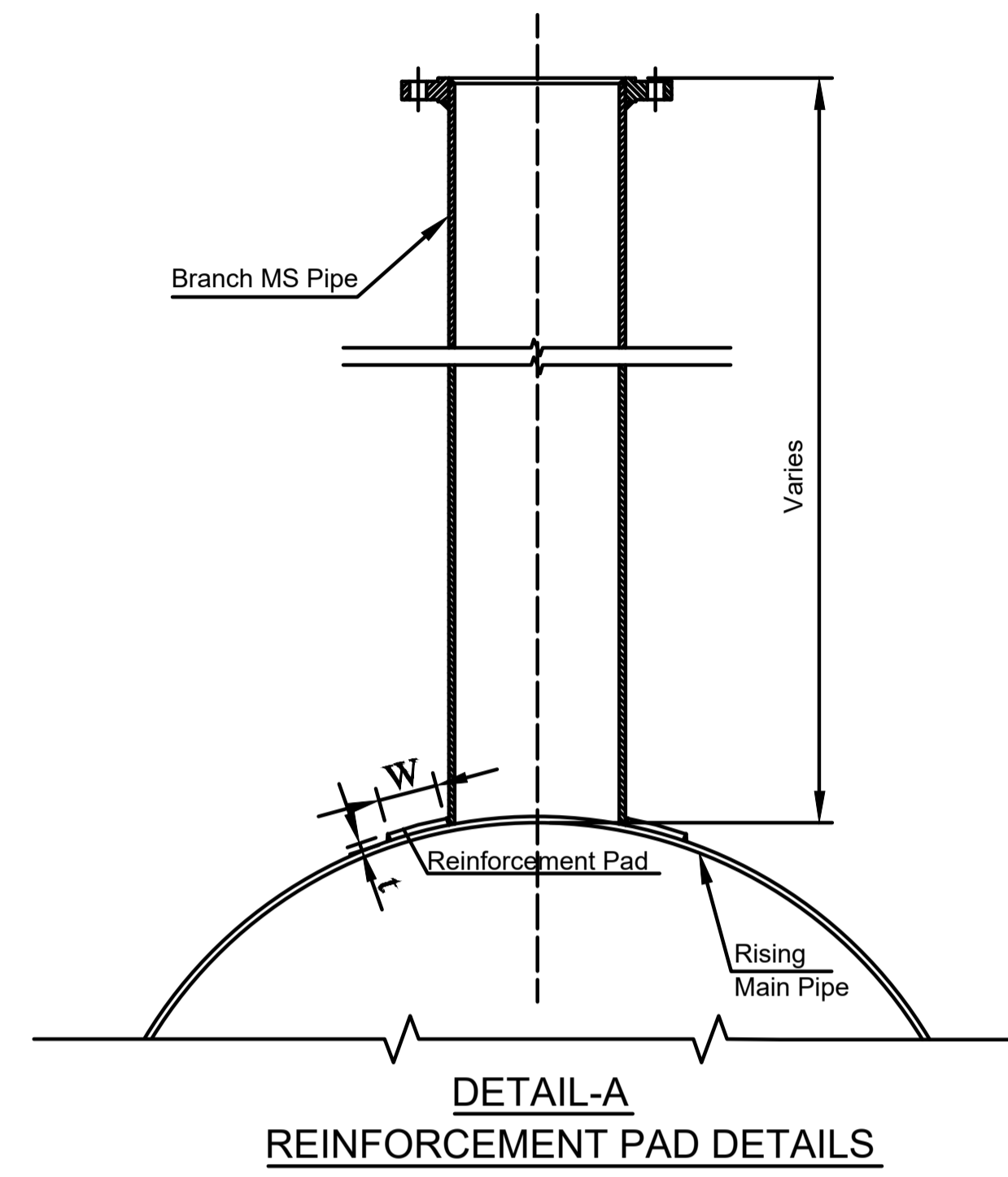
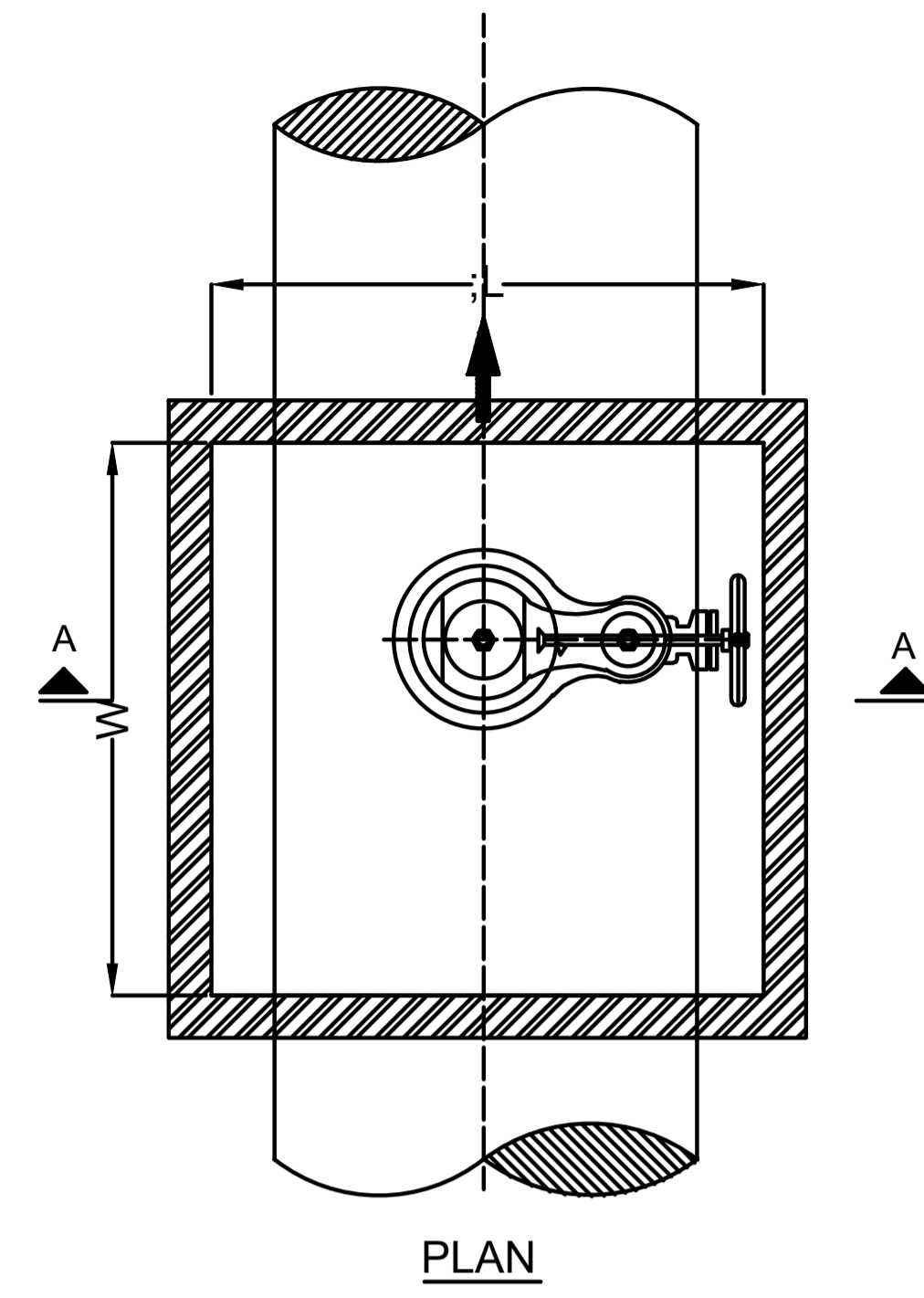
Consultants :



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architects engineers consultants pvt.ltd. &
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e-mail: irrigation@aarvee.net, web:www.aarvee.net

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS. UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF AIR VALVE(AV) SHALL BE REFERRED FROM APPROVED L-SECTION OF DISTRIBUTION NETWORK.



S.No	MAIN PIPE MATERIAL	PIPE SIZE ØD1 (NB)	BRANCH PIPE MATERIAL	BRANCH PIPE OD, D2 (mm)	VALVE SIZE (mm)	CHAMBER SIZE	
						L (mm)	W (mm)
1	MS	1300	MS	308	300	1200	1200
2	MS	1200	MS	258	250	1200	1200
3	MS	1100	MS	258	250	1200	1200
4	MS	1000	MS	208	200	1200	1200

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATION SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF
AIR VALVE FOR MS PIPE**

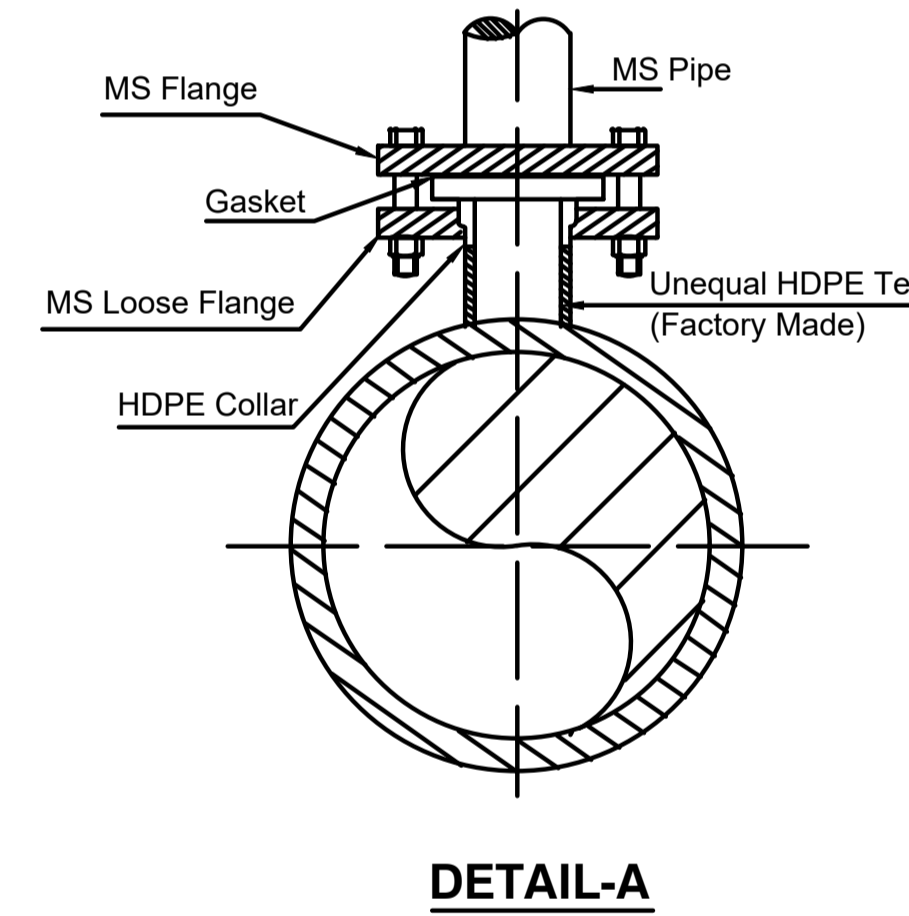
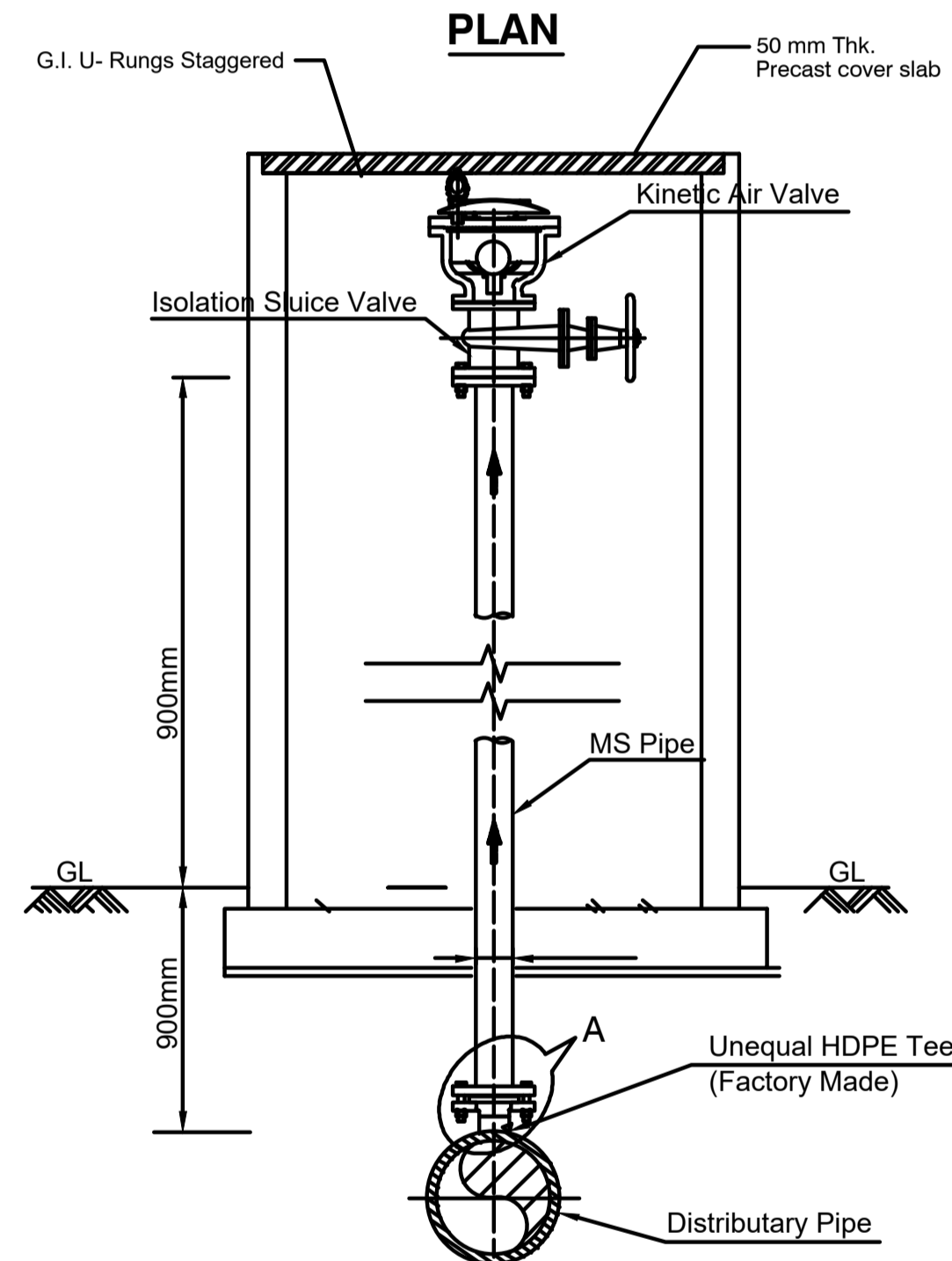
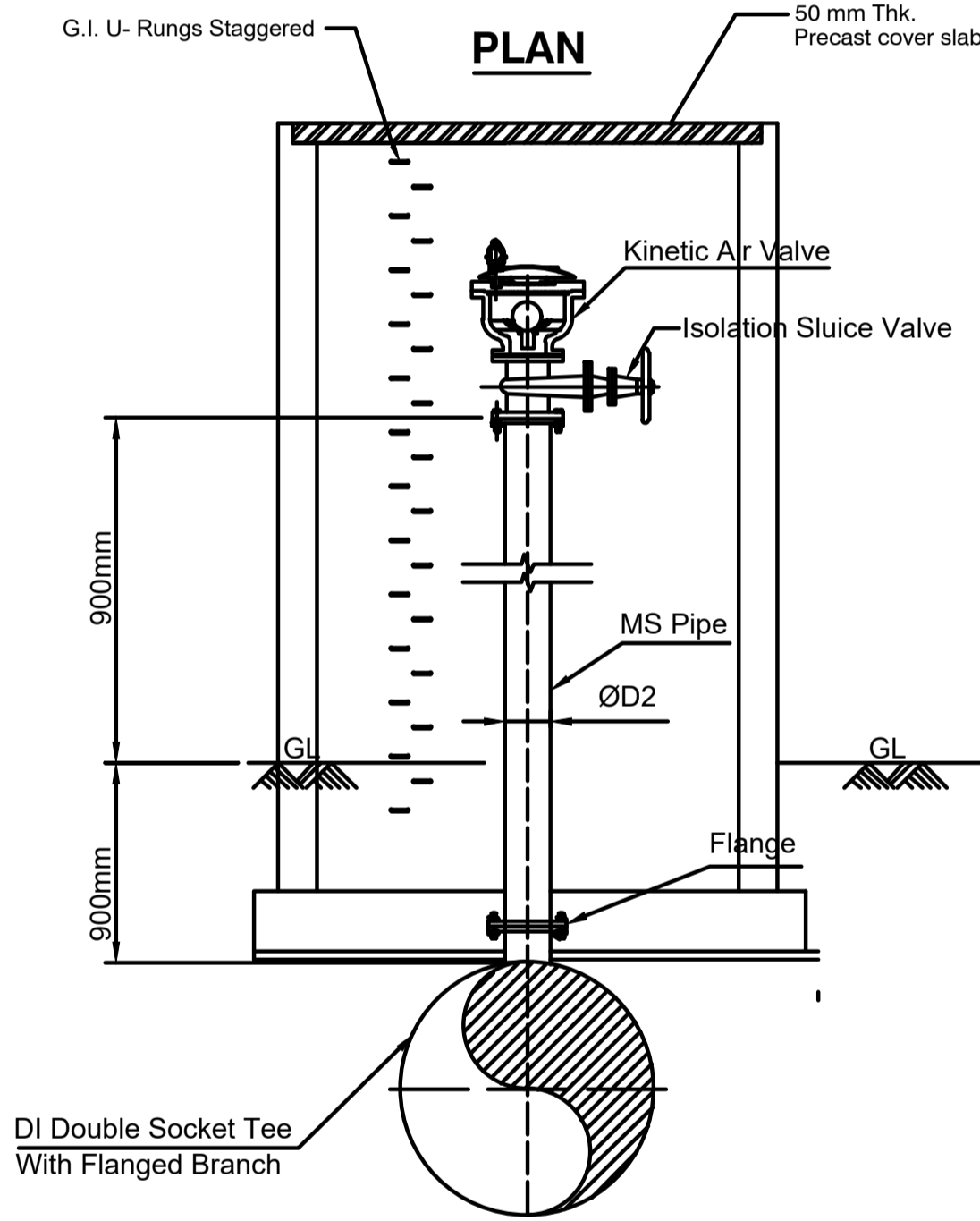
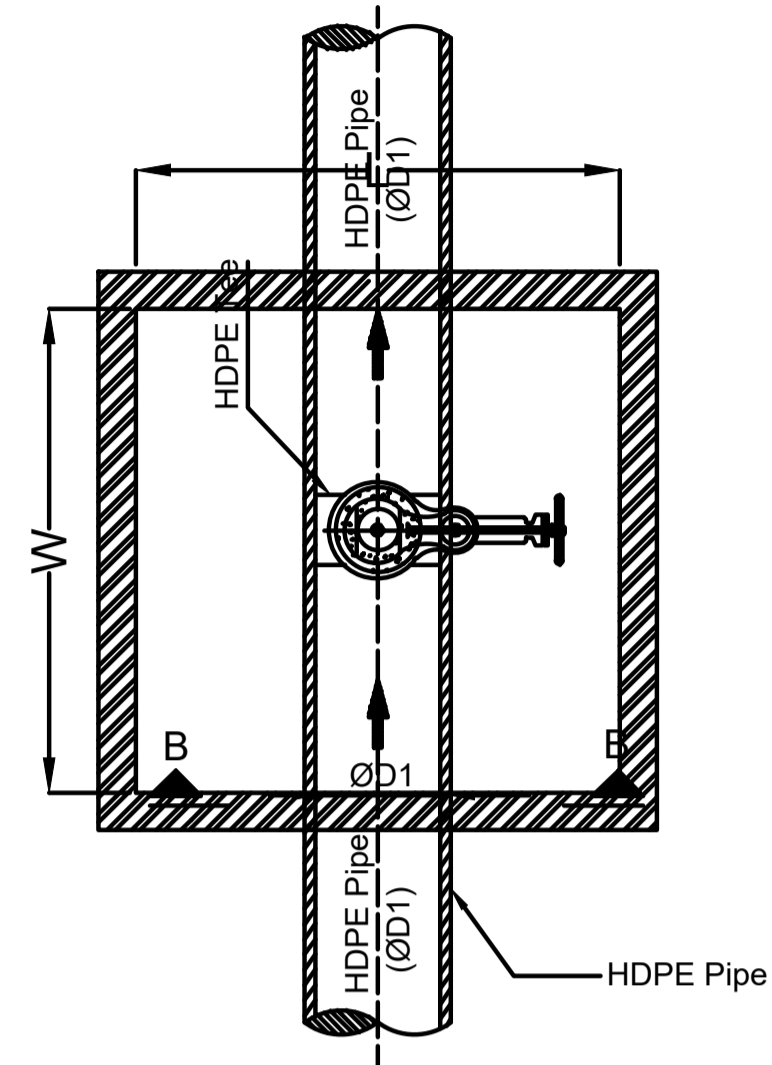
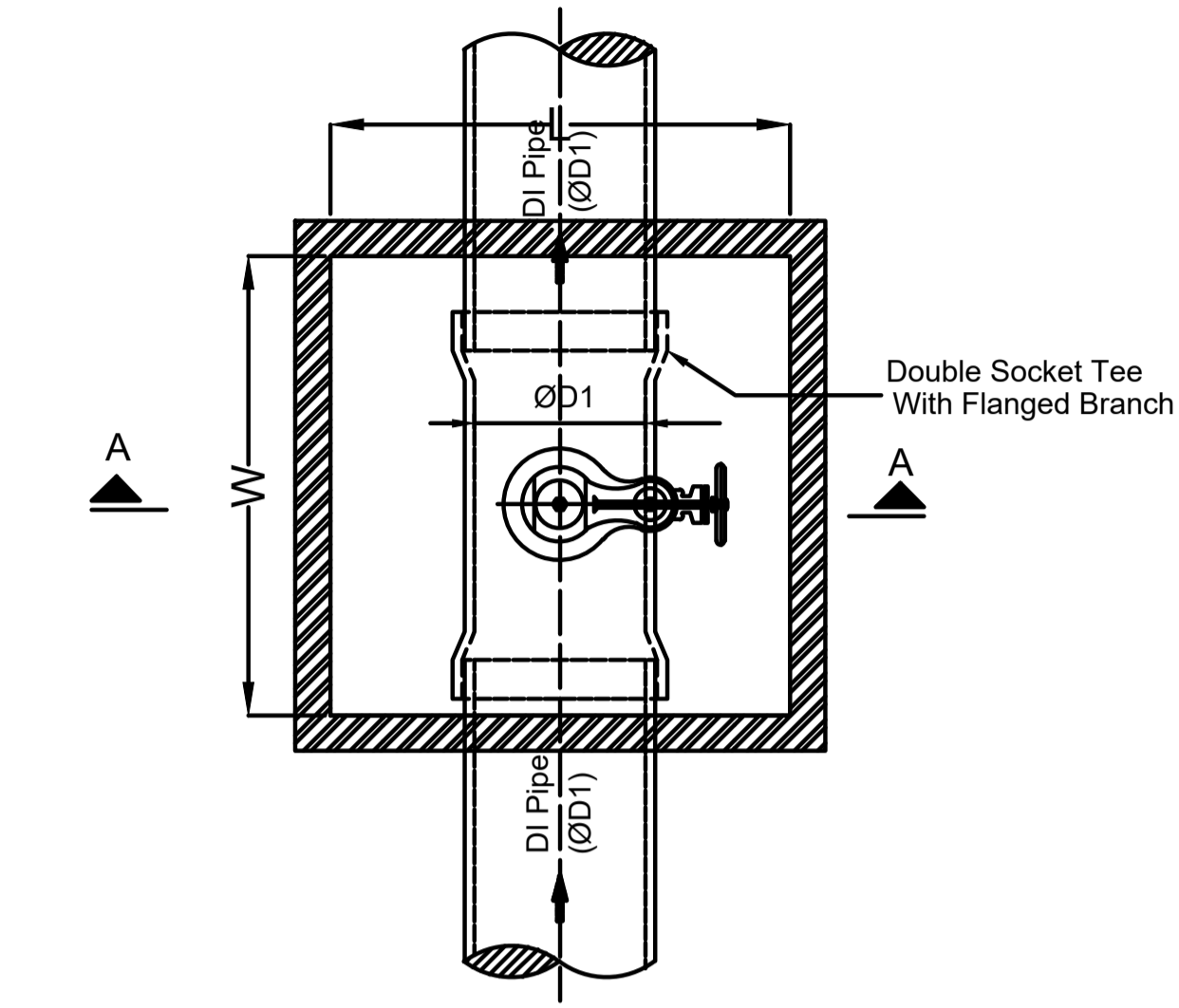
Consultants :



aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

Typical Air Valve connection detail on DI Pipe

Typical Air Valve connection detail on HDPE Pipe



SECTION - AA

SECTION - BB

DETAIL-A

- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS.UNLESS OTHERWISE SPECIFIED.
 2. LOCATION OF AIR VALVE(AV) SHALL BE REFERRED FROM APPROVED L-SECTION OF DISTRIBUTION NETWORK.

S.No	MAIN PIPE MATERIAL	PIPE SIZE ØD1	BRANCH PIPE MATERIAL	BRANCH PIPE OD, D2 (mm)	VALVE SIZE (mm)	CHAMBER SIZE	
						L (mm)	W (mm)
1	DI	300	MS	88	80	1200	1200
2	DI	350	MS	88	80	1200	1200
3	DI	400	MS	108	100	1200	1200
4	DI	450	MS	108	100	1200	1200
5	DI	500	MS	108	100	1200	1200
6	DI	600	MS	158	150	1200	1200
7	DI	700	MS	158	150	1200	1200
8	DI	800	MS	158	150	1200	1200
9	DI	900	MS	208	200	1200	1200

S.No	MAIN PIPE MATERIAL	PIPE SIZE ØD1	BRANCH PIPE MATERIAL	BRANCH PIPE OD, D2 (mm)	VALVE SIZE (mm)	CHAMBER SIZE	
						L (mm)	W (mm)
1	HDPE	200	MS	58	80	1200	1200
2	HDPE	225	MS	88	80	1200	1200
3	HDPE	250	MS	88	80	1200	1200
4	HDPE	280	MS	88	80	1200	1200

Client : **REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT**

Project : **KABUYANDA IRRIGATON SCHEME**

Title : **GENERAL ARRANGEMENT DRAWING OF
AIR VALVE FOR DI & HDPE PIPES**

Consultants :



aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

LIST OF AIR VALVES ON DI PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	CHAINAGE	AIR VALVE SIZE mm	PRESSURE RATING
1	M1	900	6+966	150	PN10
2	M1	900	7+700	150	PN10
3	M1	800	8+525	150	PN6
4	M1	800	8+726	150	PN6
5	M1	700	9+732	150	PN10
6	M2	700	0+350	150	PN10
7	M1-S1	500	0+400	125	PN10
8	M1-S1	400	1+500	100	PN10
9	M1-S2	400	0+535	100	PN10
10	M1-S2	400	1+125	100	PN10
11	M1-S3	300	0+527	80	PN6
12	M1-S4	500	0+464	125	PN10
13	M1-S4	500	1+200	125	PN10
14	M1-S4	500	1+509	125	PN10
15	M1-S4	500	1+750	125	PN10
16	M1-S4	500	2+140	125	PN10
17	M1-S4	400	3+150	100	PN10
18	M1-S4	400	3+306	100	PN10
19	M1-S4	400	3+750	100	PN6
20	M1-S5	700	0+100	150	PN6
21	M1-S5	450	0+757	100	PN10
22	M1-S5	450	1+325	100	PN10
23	M1-S5	450	1+850	100	PN10
24	M2-S1	600	0+350	150	PN6
25	M2-S1	400	1+240	100	PN6
26	M2-S2	500	0+180	125	PN10
27	M1-T1	300	0+840	80	PN6
28	M1-T2	300	0+491	80	PN6
29	M1-T4	350	0+250	80	PN6
30	M1-T5	350	0+324	80	PN6
31	M2-S1-T3	350	0+306	80	PN6
32	M2-S2-T2	350	0+032	80	PN6
33	M2-S2-T2	350	0+150	80	PN6
34	M2-S2-T2	350	0+586	80	PN6
35	M2-S2-T2	350	0+870	80	PN6
36	M2-S2-T2	350	1+012	80	PN6
37	M1-T3.1	300	0+100	80	PN10
38	M1-T5	300	0+550	80	PN10
39	M1-T6	300	0+070	80	PN6
40	M1-T6	300	0+122	80	PN10
41	M1-T6	300	0+631	80	PN10
42	M1-S1-T3	300	0+057	80	PN10
43	M1-S1-T3	300	0+550	80	PN10

LIST OF SCOUR VALVES ON DI PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	CHAINAGE	SCOUR VALVE SIZE mm	PRESSURE RATING
1	M1	900	7+500	150	PN10
2	M1	900	7+826	150	PN10
3	M1	800	8+590	150	PN6
4	M1	700	9+917	150	PN10
5	M2	700	0+167	150	PN10
6	M1-S1	500	1+040	125	PN10
7	M1-S1	400	1+750	100	PN10
8	M1-S2	600	0+225	150	PN6
9	M1-S2	400	0+750	100	PN10
10	M1-S2	400	1+625	100	PN10
11	M1-S4	500	1+650	125	PN6
12	M1-S4	500	1+950	125	PN10
13	M1-S4	500	2+750	125	PN10
14	M1-S4	400	3+200	100	PN10
15	M1-S4	400	3+500	100	PN10
16	M1-S4	400	3+850	100	PN6
17	M1-S5	600	0+350	150	PN6
18	M1-S5	450	1+170	100	PN10
19	M1-S5	450	1+635	100	PN10
20	M2-S1	400	0+550	100	PN6
21	M2-S1	400	1+350	100	PN6
22	M2-S2	500	0+360	125	PN10
23	M1-T1	300	0+466	80	PN6
24	M1-S2-T1	300	0+032	80	PN10
25	M1-S2-T3	300	0+457	80	PN6
26	M1-S2-T3	300	0+965	80	PN6
27	M1-S2-T4	300	0+200	80	PN6
28	M1-S2-T4	300	0+450	80	PN6
29	M1-S4-T5	300	0+100	80	PN6
30	M1-S5-T2	300	0+065	80	PN10
31	M1-S5-T2	300	0+544	80	PN6
32	M1-S5-T2	300	0+590	80	PN10
33	M1-S5-T2	300	0+667	80	PN10
34	M1-S5-T2	300	1+000	80	PN10
35	M1-S5-T3	300	0+700	80	PN10
36	M1-S5-T5	300	0+050	80	PN10
37	M1-S5-T5	300	0+150	80	PN10
38	M1-S5-T5	300	0+915	80	PN10
39	M2-S2-T1	300	0+100	80	PN10
40	M2-S2-T2	300	1+200	80	PN6
41	M2-S2-T2	300	1+400	80	PN6

LIST OF AIR VALVES ON MS PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	CHAINAGE	AIR VALVE SIZE mm	PRESSURE RATING
1	M1	1300	0+034	300	PN6
2	M1	1300	0+344	300	PN6
3	M1	1300	0+608	300	PN6
4	M1	1300	0+850	300	PN6
5	M1	1300	1+900	300	PN6
6	M1	1300	2+226	300	PN6
7	M1	1300	2+656	300	PN6
8	M1	1100	4+761	250	PN6
9	M1	1000	5+397	200	PN6

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF AIR VALVE(AV) SHALL BE REFERRED FROM APPROVED L-SECTION OF DISTRIBUTION NETWORK.

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATON SCHEME

Title : LIST OF AIR & SCOUR VALVES FOR DI PIPES

Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

LIST OF AIR VALVES ON HDPE PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	CHAINAGE	AIR VALVE SIZE mm	PRESSURE RATING
1	M1-T1	250	1+232	80	PN6
2	M1-T2.2	160	0+050	50	PN6
3	M1-T3	160	0+250	50	PN6
4	M1-T3.1	225	1+050	80	PN6
5	M1-T4.1	250	0+250	80	PN6
6	M1-T4.2	225	0+648	80	PN6
7	M1-T4.2	160	1+250	50	PN6
8	M1-T5	250	0+850	80	PN6
9	M1-T6	250	1+000	80	PN6
10	M1-T7.2	160	0+400	50	PN6
11	M1-T9	250	0+108	80	PN6
12	M1-T9	225	0+585	80	PN6
13	M1-T9	140	0+900	50	PN6
14	M1-T11	250	0+355	80	PN6
15	M1-T11	250	0+600	80	PN6
16	M1-S1-T2	160	0+616	50	PN6
17	M1-S1-T3	250	0+920	80	PN6
18	M1-S2-T2.1	140	0+400	50	PN6
19	M1-S2-T2.2	225	0+100	80	PN6
20	M1-S2-T2.2	180	0+808	50	PN6
21	M1-S2-T3.1	250	0+050	80	PN10
22	M1-S2-T3.2	250	0+400	80	PN10
23	M1-S2-T3.2	250	0+956	80	PN10
24	M1-S2-T5	225	0+700	80	PN6
25	M1-S3-T2	160	0+368	50	PN6
26	M1-S4-T2	200	0+350	50	PN10
27	M1-S4-T2	200	0+728	50	PN10
28	M1-S4-T2	200	1+684	50	PN10
29	M1-S4-T2	200	1+697	50	PN6
30	M1-S4-T2	200	2+150	50	PN6
31	M1-S4-T3.1	180	0+038	50	PN10
32	M1-S4-T3.3	140	0+050	50	PN10
33	M1-S4-T5.1	160	0+171	50	PN6
34	M1-S5-T1	250	0+672	80	PN10
35	M1-S5-T1	250	1+200	80	PN10
36	M1-S5-T2	140	1+895	50	PN6
37	M1-S5-T2	140	2+282	50	PN6
38	M1-S5-T3	250	0+900	80	PN10
39	M1-S5-T3.1	180	0+107	50	PN10
40	M1-S5-T3.1	140	0+675	50	PN10
41	M1-S5-T3.3	140	0+130	50	PN10

LIST OF SCOUR VALVES ON HDPE PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	CHAINAGE	SCOUR VALVE SIZE mm	PRESSURE RATING
1	M1-T1	250	1+035	80	PN6
2	M1-T2	160	0+650	80	PN6
3	M1-T3	160	0+225	80	PN6
4	M1-T3	160	0+300	80	PN6
5	M1-T4.2	250	0+090	80	PN6
6	M1-T9	225	0+416	80	PN6
7	M1-T9	225	0+706	80	PN6
8	M1-T11	250	0+465	80	PN6
9	M1-T11	250	0+850	80	PN6
10	M1-S2-T1	200	0+673	80	PN10
11	M1-S2-T2.2	180	0+500	80	PN6
12	M1-S2-T3.1	180	0+450	80	PN10
13	M1-S2-T3.2	250	0+028	80	PN10
14	M1-S2-T3.2	250	0+550	80	PN10
15	M1-S2-T4	140	0+750	80	PN10
16	M1-S3-T2	160	0+200	80	PN6
17	M1-S4-T2	200	0+760	80	PN10
18	M1-S4-T3.2	180	0+077	80	PN10
19	M1-S4-T5	160	0+400	80	PN6
20	M1-S5-T1	250	1+120	80	PN10
21	M1-S5-T2	140	2+028	80	PN6
22	M1-S5-T3.1	140	0+550	80	PN10
23	M1-S5-T4.1	140	0+900	80	PN10
24	M1-S5-T4.2	180	0+079	80	PN10
25	M2-S1-T1.1	250	0+362	80	PN6
26	M2-S1-T1.3	225	0+110	80	PN6
27	M2-S2-T1.2	250	0+260	80	PN6

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS.UNLESS OTHERWISE SPECIFIED.
2. LOCATION OF AIR VALVE(AV) SHALL BE REFERRED FROM APPROVED L-SECTION OF DISTRIBUTION NETWORK.

LIST OF ISOLATION VALVES AND ASSOCIATED SCOUR VALVES ON HDPE PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	ISOLATION VALVE SIZE mm	SCOUR VALVE SIZE mm	PRESSURE RATING
1	M1-T9	250	250	80	6
2	M1-T11	250	250	80	6
3	M1-S3-T1	140	140	80	6
4	M1-S4-T4	200	200	80	6
5	M1-S5-T1	250	250	80	10
6	M1-S5-T3.1	225	225	80	10
7	M1-S5-T4.2	180	180	80	10
8	M2-S1-T2	160	160	80	6

LIST OF ISOLATION VALVES AND ASSOCIATED AIR VALVES ON HDPE PIPES

SR. NO.	PIPE ID	MAIN PIPE DIA mm	ISOLATION VALVE SIZE mm	AIR VALVE SIZE mm	PRESSURE RATING
1	M1-T8	200	200	50	6
2	M1-S4-T1	250	250	50	10
3	M2-S2-T1.2	250	250	80	6

Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATON SCHEME**

Title : **LIST OF AIR & SCOUR VALVES FOR HDPE PIPES**

Consultants :



aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net

NOTE:

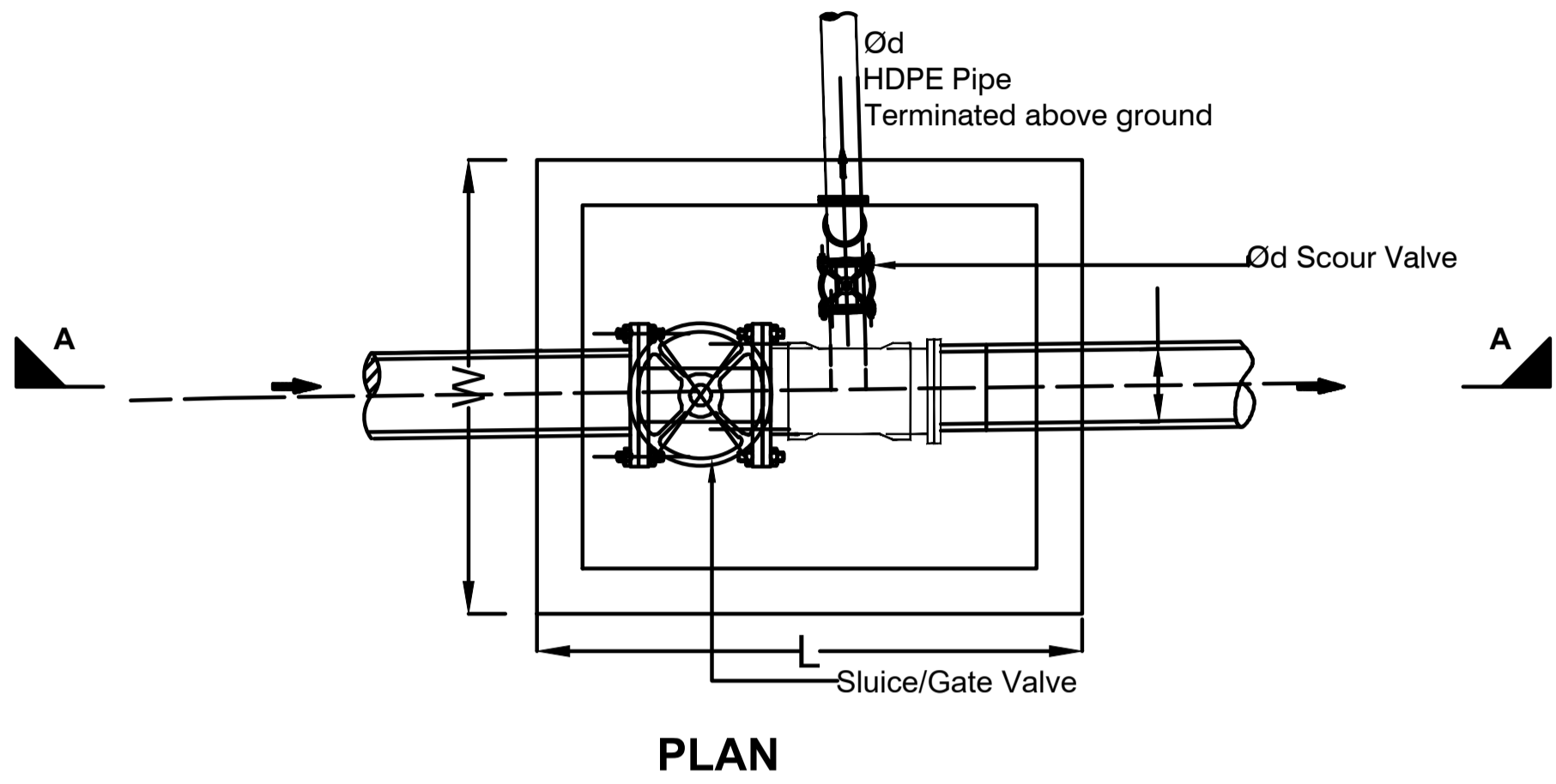
1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
2. FOR REINFORCEMENT & NUMERATION DETAILS OF VALVE CHAMBERS REFER CIVIL DRAWINGS.
3. LOCATION OF BUTTERFLY VALVE (BFV) SHALL BE REFERRED FROM L-SECTION OF DISTRIBUTION NETWORK.

LIST OF ISOLATION VALVES AND ASSOCIATED SCOUR VALVES ON HDPE PIPES

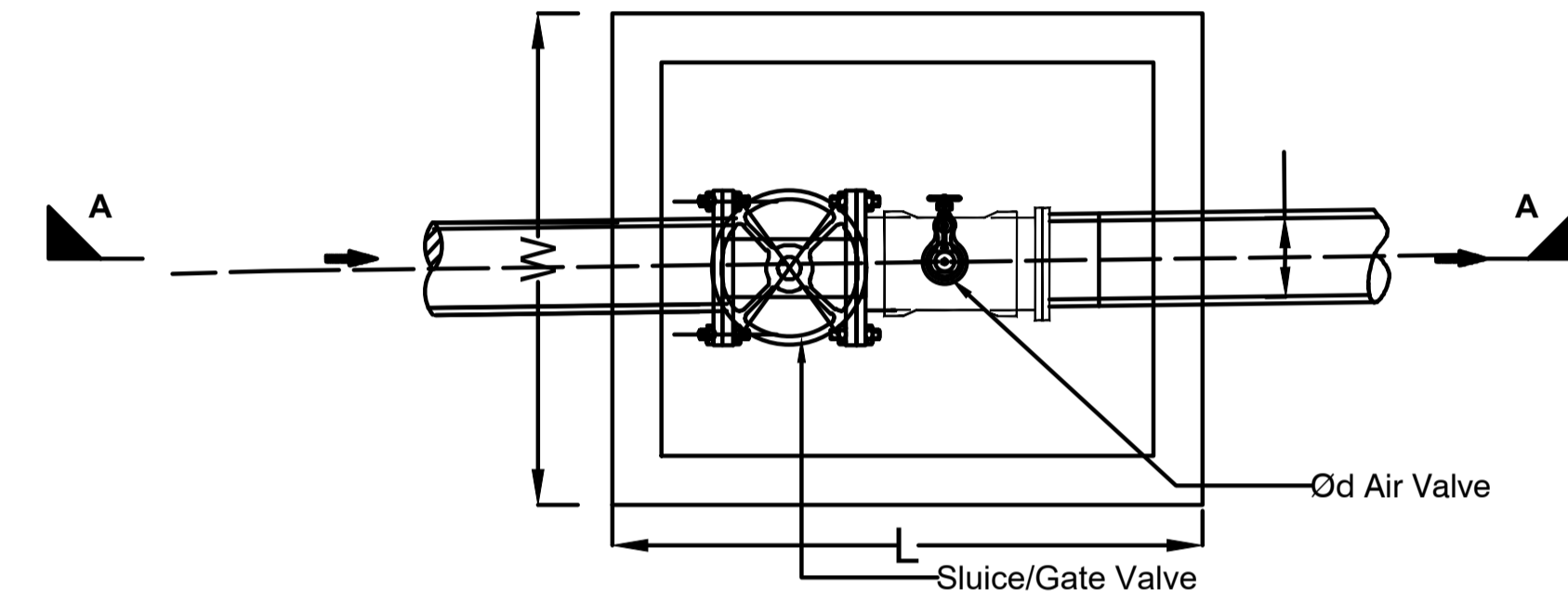
SR. NO.	PIPE ID	MAIN PIPE DIA mm	ISOLATION VALVE SIZE mm	SCOUR VALVE SIZE mm	PRESSURE RATING
1	M1-T9	250	250	80	6
2	M1-T11	250	250	80	6
3	M1-S3-T1	140	140	80	6
4	M1-S4-T4	200	200	80	6
5	M1-S5-T1	250	250	80	10
6	M1-S5-T3.1	225	225	80	10
7	M1-S5-T4.2	180	180	80	10
8	M2-S1-T2	160	160	80	6

LIST OF ISOLATION VALVES AND ASSOCIATED AIR VALVES ON HDPE PIPES

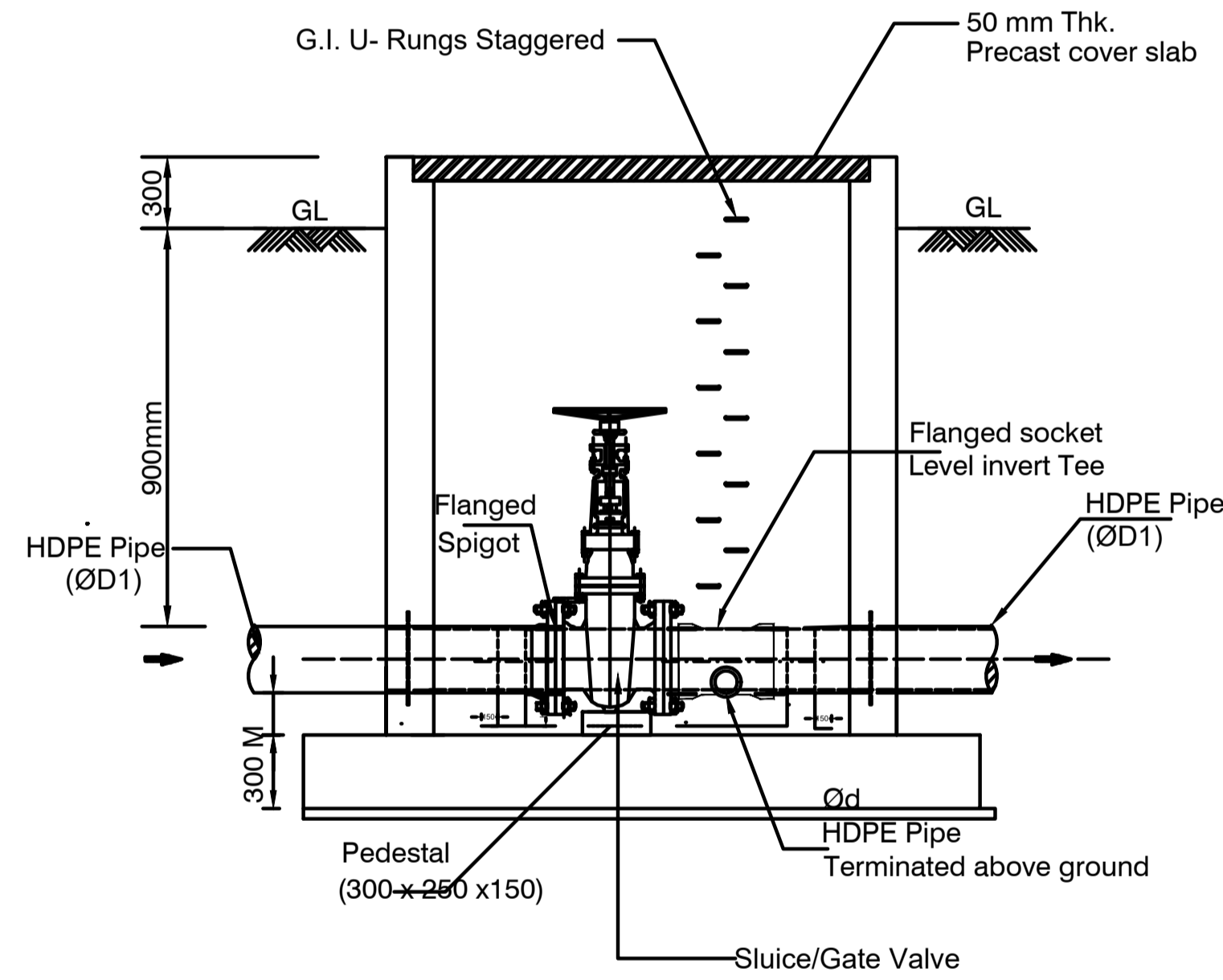
SR. NO.	PIPE ID	MAIN PIPE DIA mm	ISOLATION VALVE SIZE mm	AIR VALVE SIZE mm	PRESSURE RATING
1	M1-T8	200	200	50	6
2	M1-S4-T1	250	250	50	10
3	M2-S2-T1.2	250	250	80	6



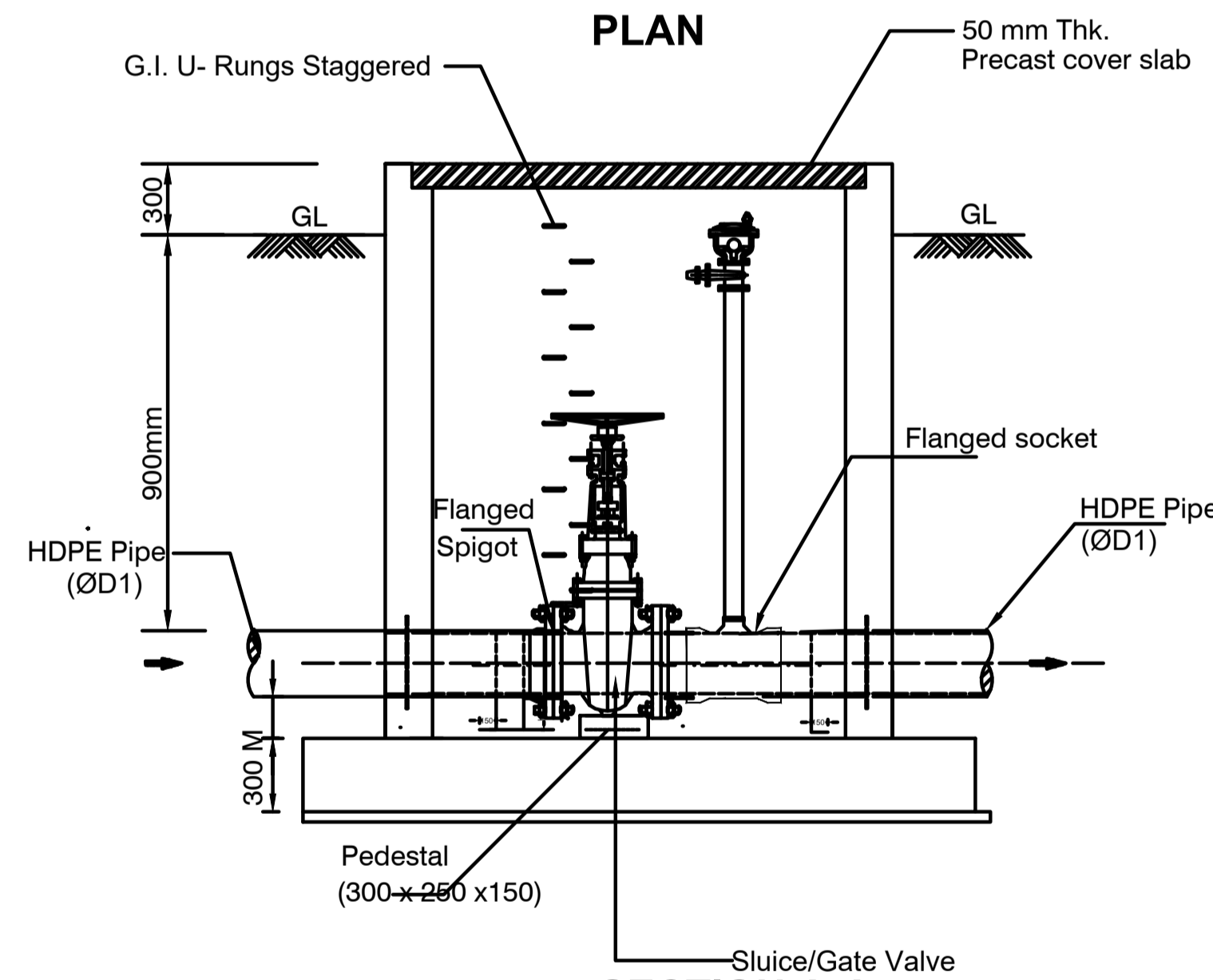
PLAN



PLAN



SECTION A-A



SECTION A-A

S.No.	Main pipe Material	Main pipe Size ØD1 (mm)	Valve size (NB)	L	W
1	HDPE	250	250	1200	1200
2	HDPE	225	225	1200	1200
3	HDPE	200	200	1200	1200
4	HDPE	180	180	1200	1200
5	HDPE	160	160	1200	1200
6	HDPE	140	140	1200	1200

ISOLATION VALVES ASSOCIATED WITH SV AT HEAD OF HDPE TERTIARY MAIN

S.No.	Main pipe Material	Main pipe Size ØD1 (mm)	Valve size (NB)	L	W
1	HDPE	250	250	1200	1200
2	HDPE	225	225	1200	1200
3	HDPE	200	200	1200	1200
4	HDPE	180	180	1200	1200
5	HDPE	160	160	1200	1200
6	HDPE	140	140	1200	1200

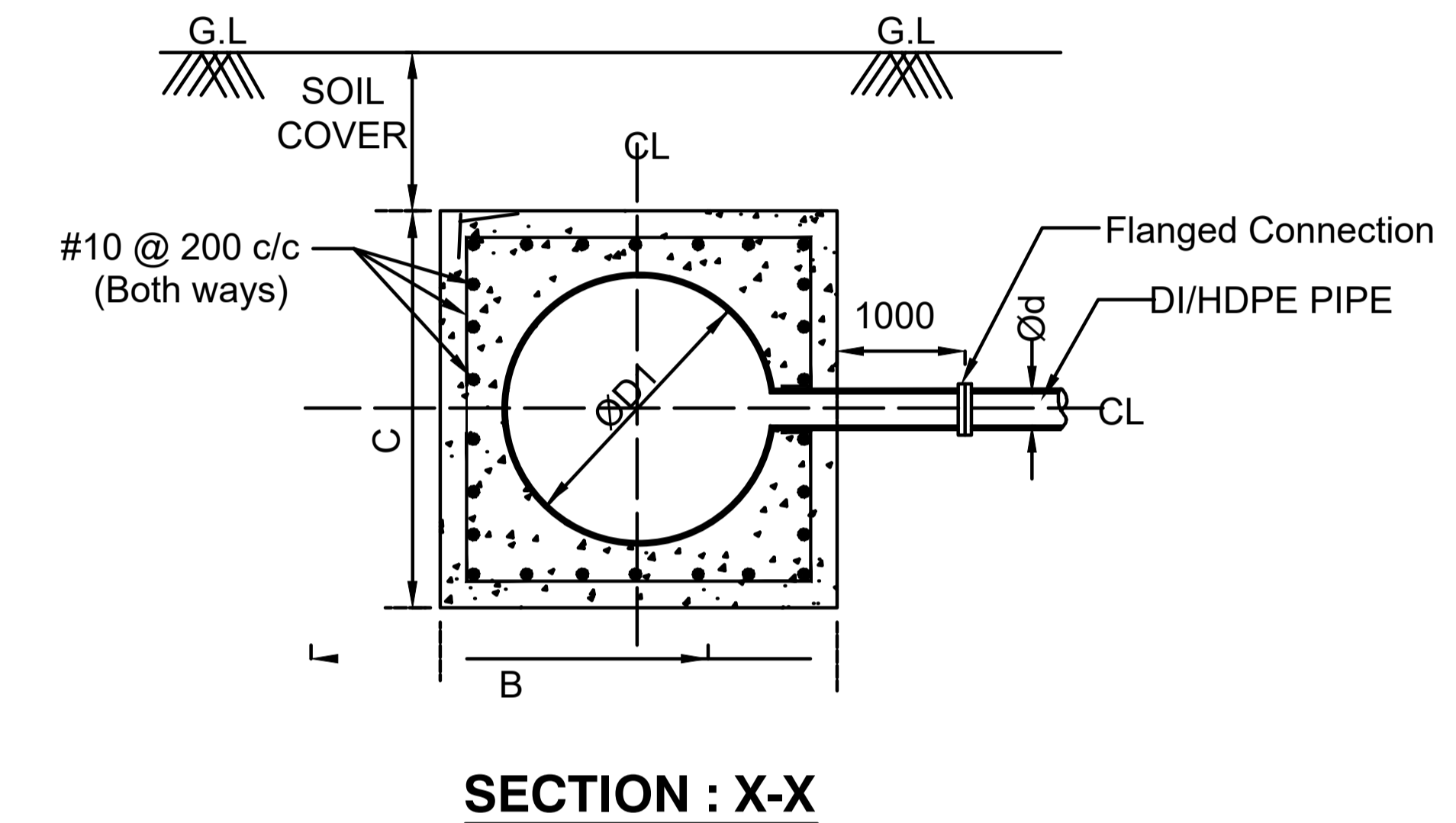
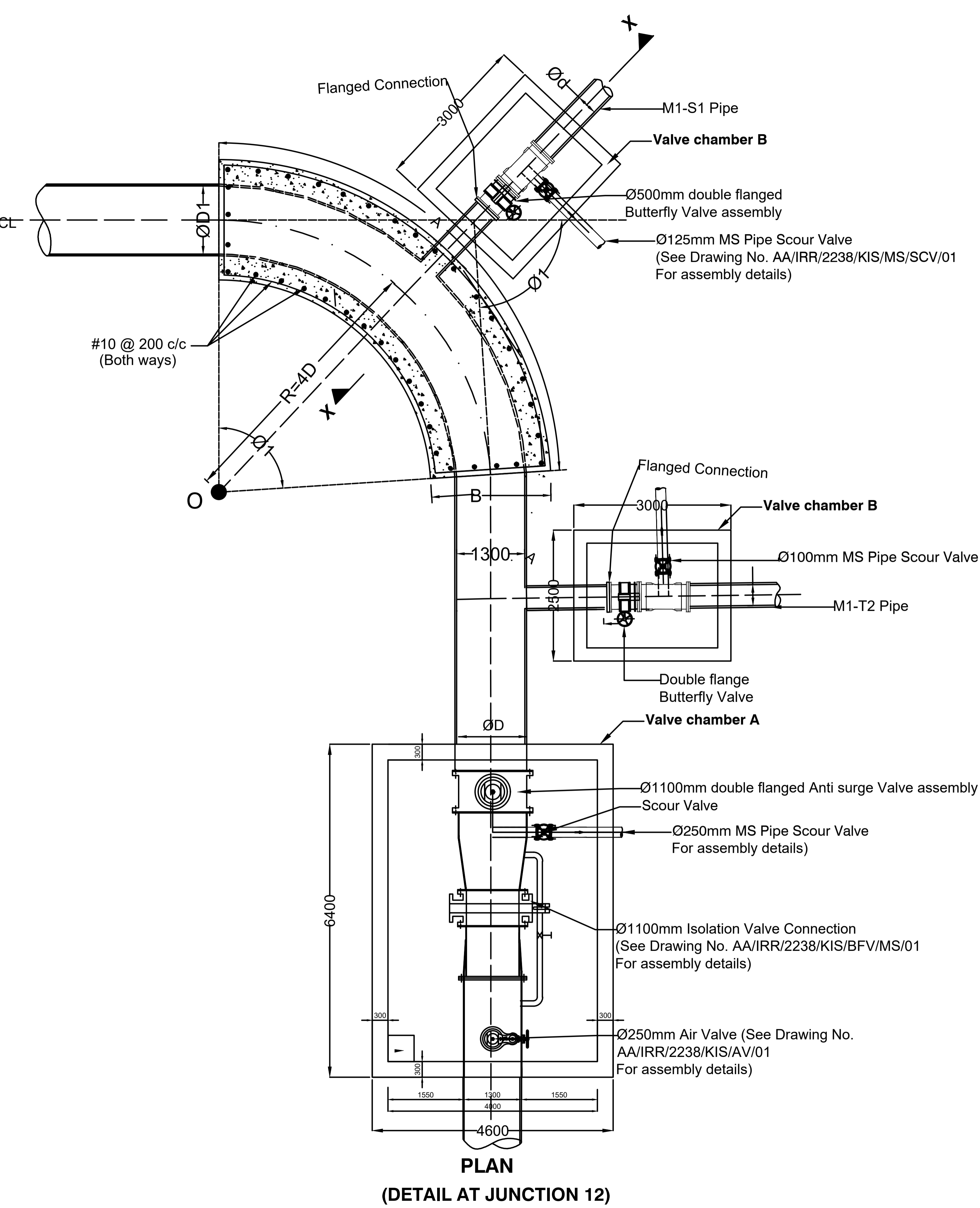
ISOLATION VALVES ASSOCIATED WITH AIR VALVES AT HEAD OF HDPE TERTIARY MAIN

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME


Title : GENERAL ARRANGEMENT DRAWING FOR ISOLATION BUTTERFLY VALVE CHAMBER FOR HDPE PIPES

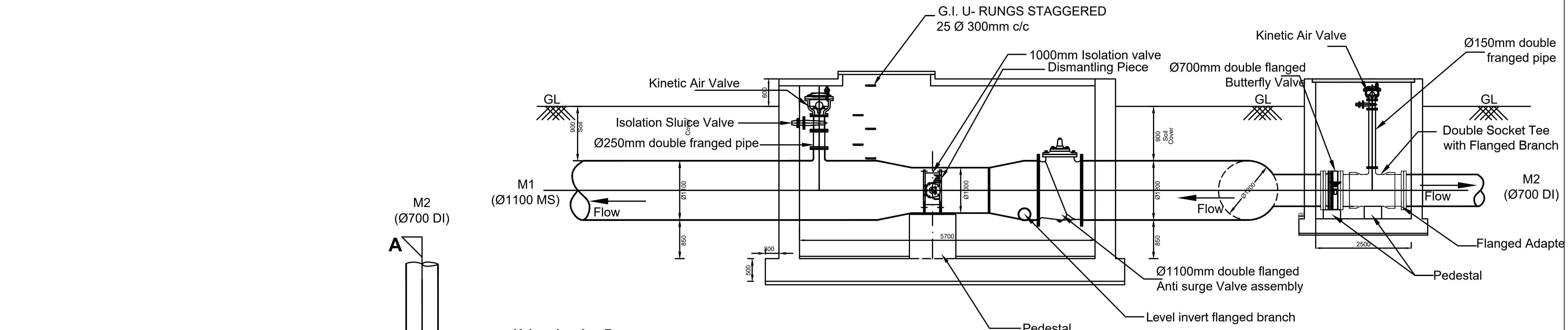
Consultants : 
aarvee associates
architects engineers consultants pvt.ltd.&
Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
Tel: +91 -40-23737633; Fax: +91 -4023736277
e-mail: irrigation@aarvee.net; web:www.aarvee.net



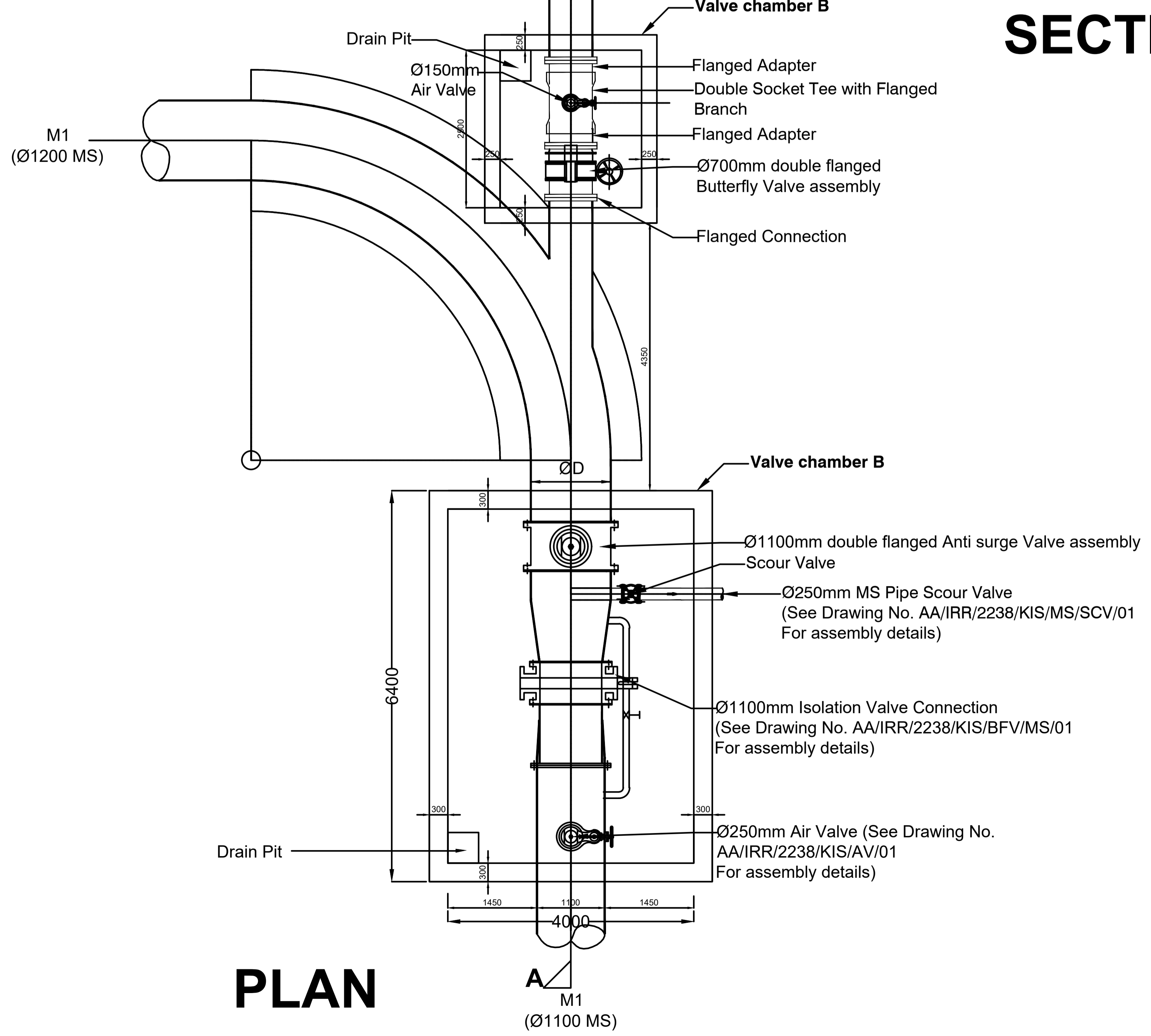
PLAN
(DETAIL AT JUNCTION 12)

SECTION : X-X


NOTES:	
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.	
2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.	
3. THE GRADE OF CONCRETE IS C35.	
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.	
5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.	
Client :	REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT
Project :	KABUYANDA IRRIGATION SCHEME
Title :	CHAMBER DETAILS AT JUNCTION 12
Consultants :	 aarvee associates architects engineers consultants pvt.ltd.& Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net, web:www.aarvee.net
Drg. No.	AA/IRR/2238/KIS/TB/Y-JCT/01
Date	22-01-2022

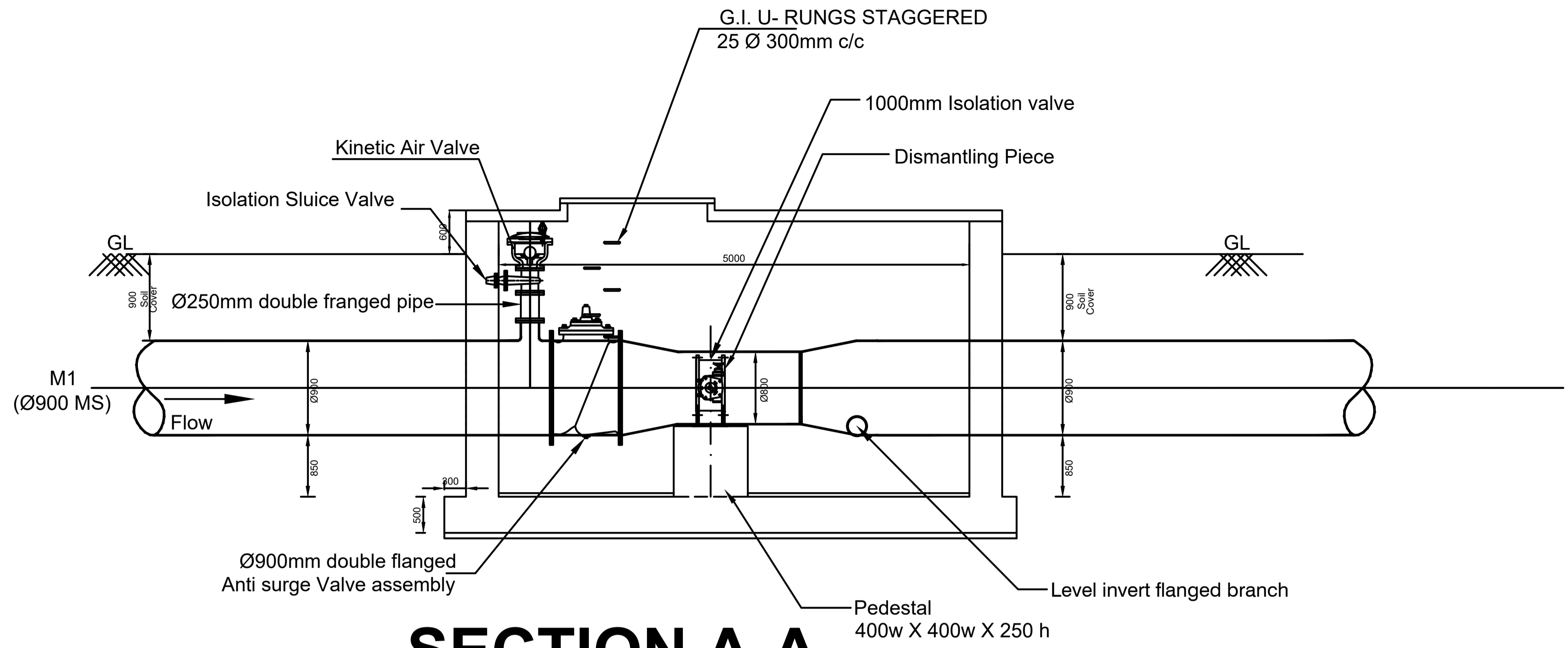


SECTION A-A

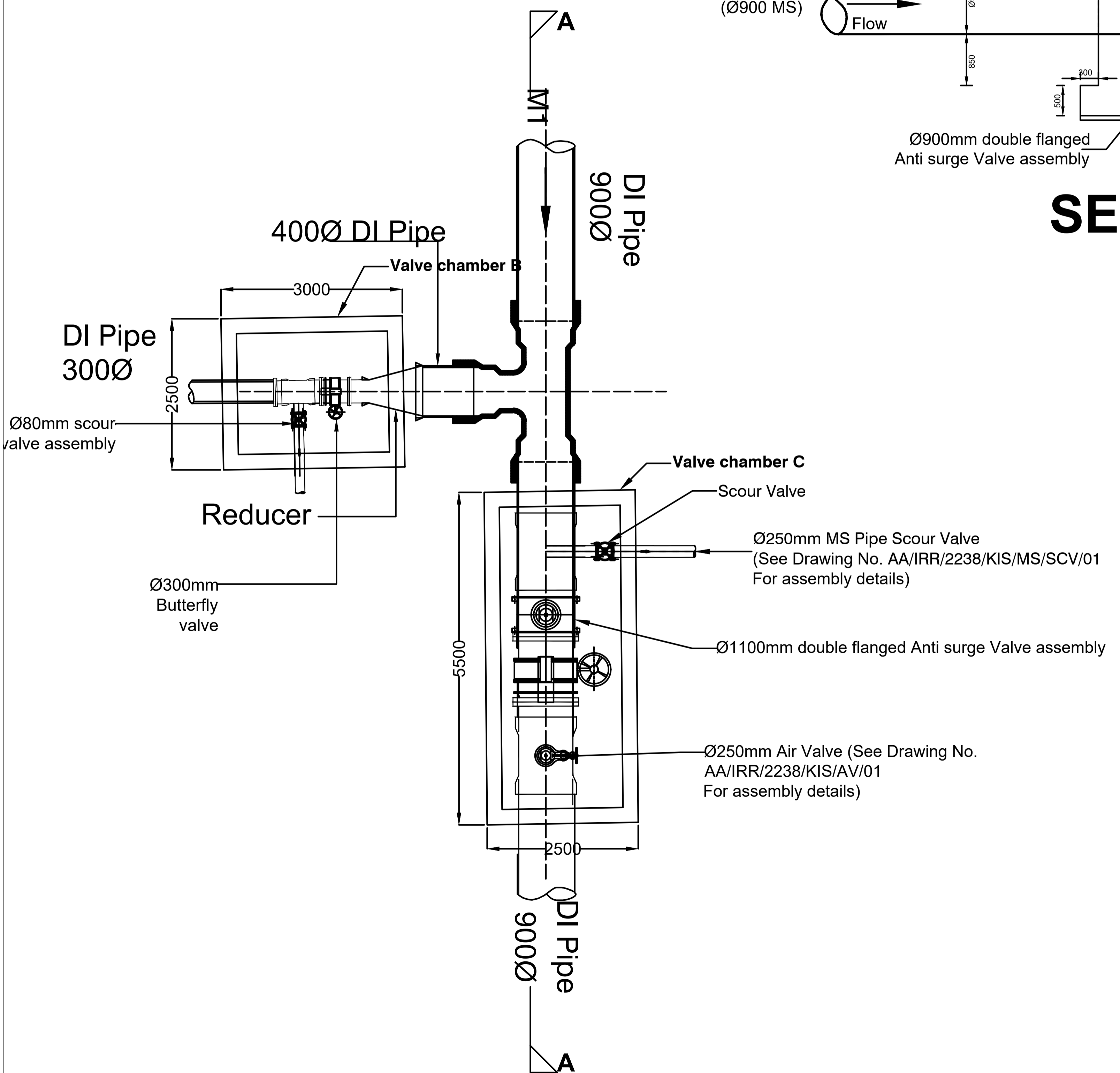


PLAN

NOTES:	
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.	
2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.	
3. THE GRADE OF CONCRETE IS C35.	
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.	
5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.	
Client :	REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT
Project :	KABUYANDA IRRIGATION SCHEME
Title :	CHAMBER DETAILS AT JUNCTION 59
Consultants :	 aarvee associates architects engineers consultants pvt.ltd.& Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net
Drg. No.	AA/IRR/2238/KIS/TB/Y-JCT/01
Date	16-04-2022



SECTION A-A



- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
 2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.
 3. THE GRADE OF CONCRETE IS C35.
 4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.
 5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.

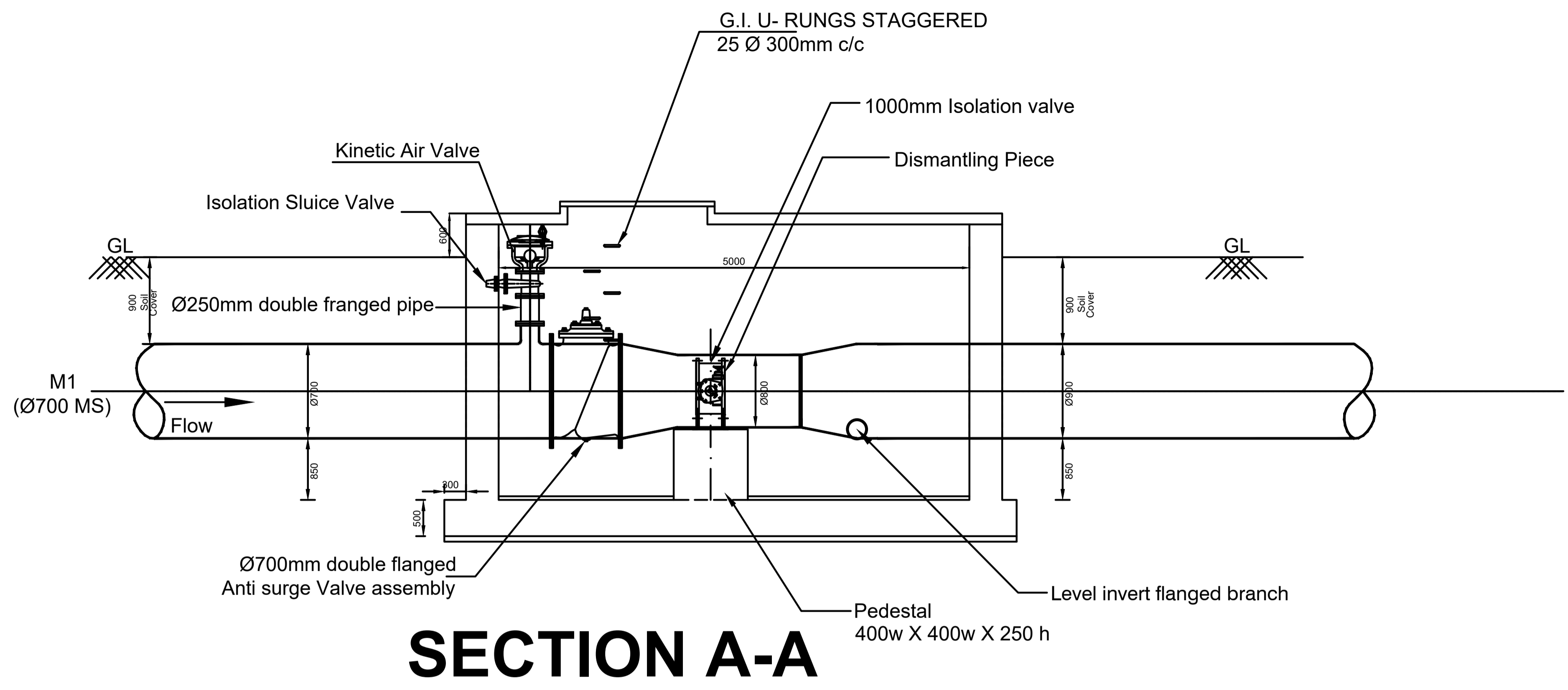
Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATON SCHEME

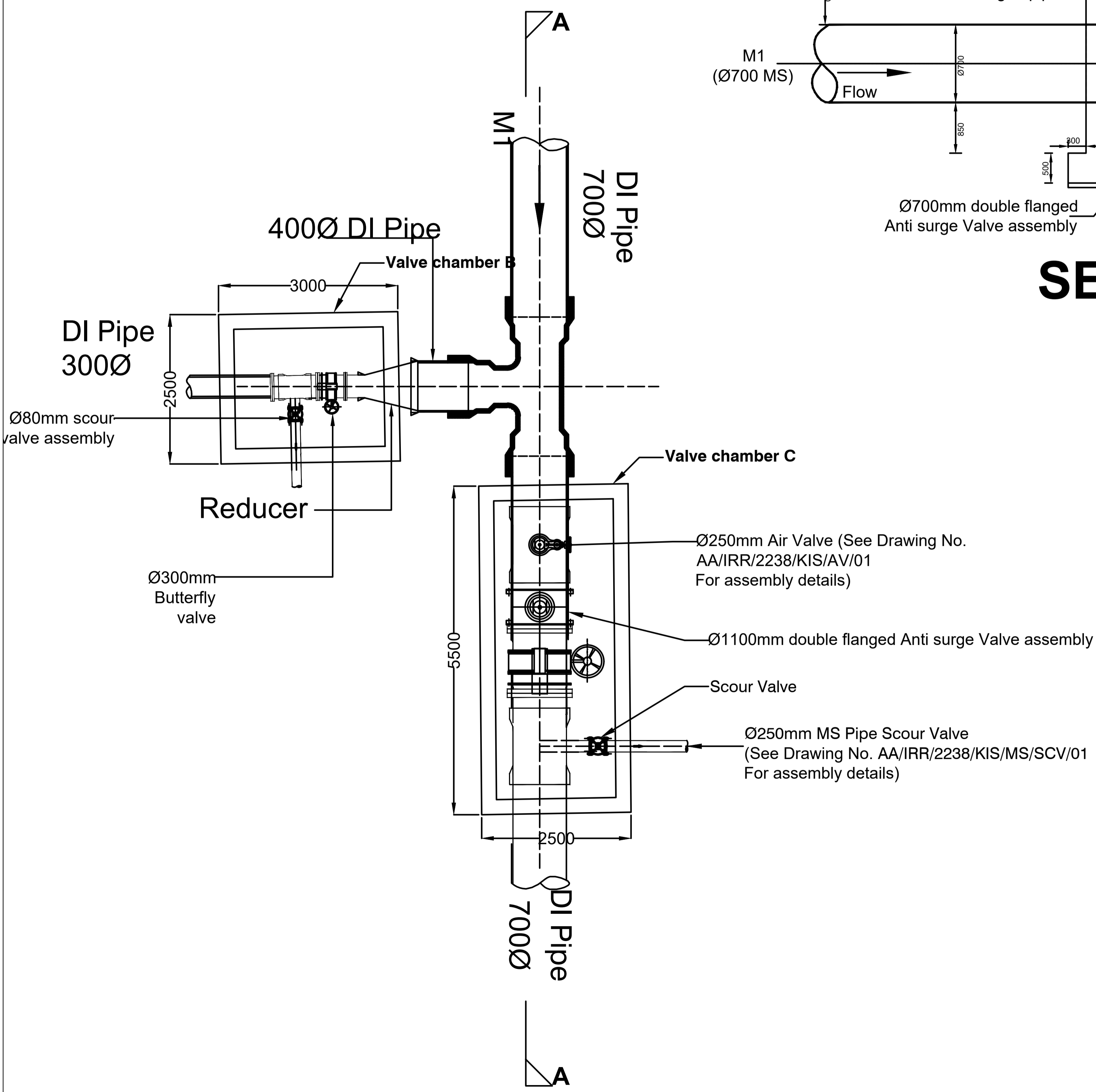
Title : CHAMBER DETAILS AT JUNCTION 204


Consultants :


aarvee associates
 architects engineers consultants pvt.ltd.&
 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
 Tel: +91 -40-23737633; Fax: +91 -4023736277
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SECTION A-A

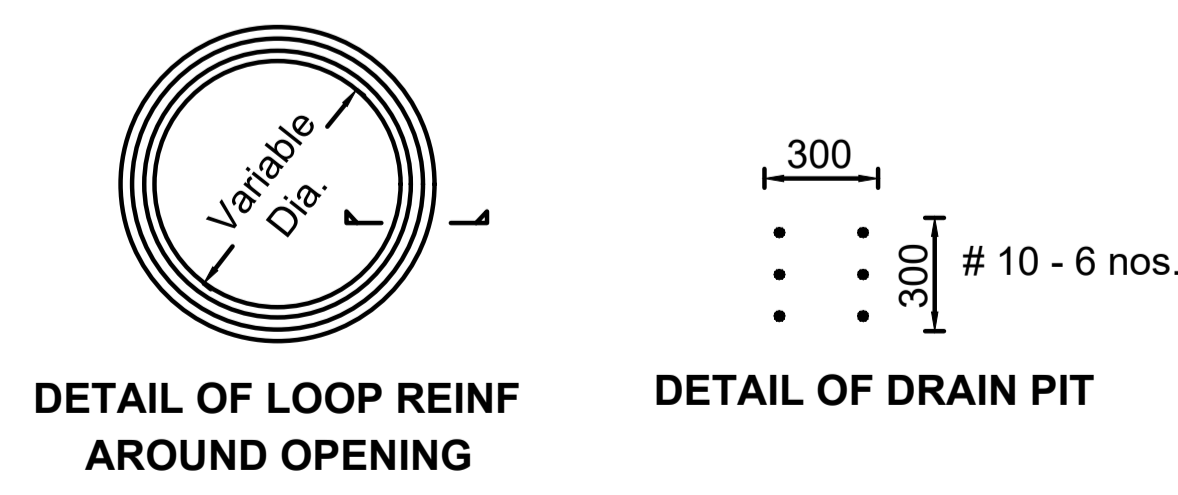
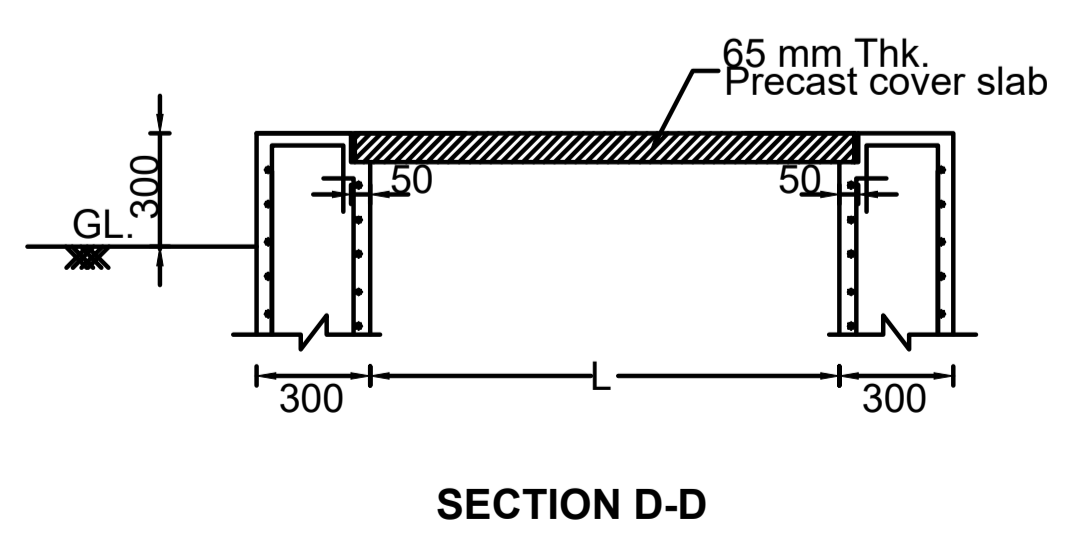
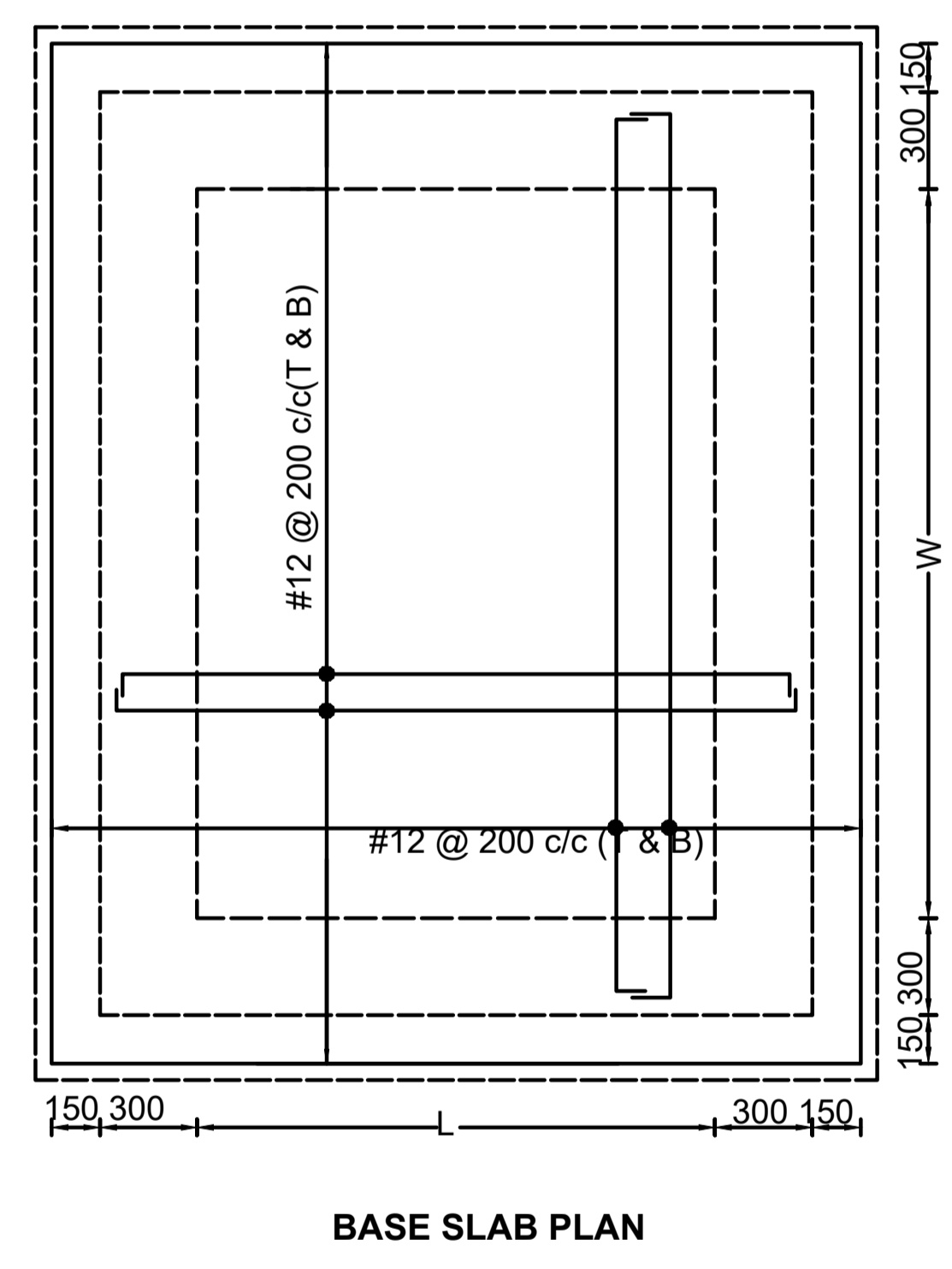
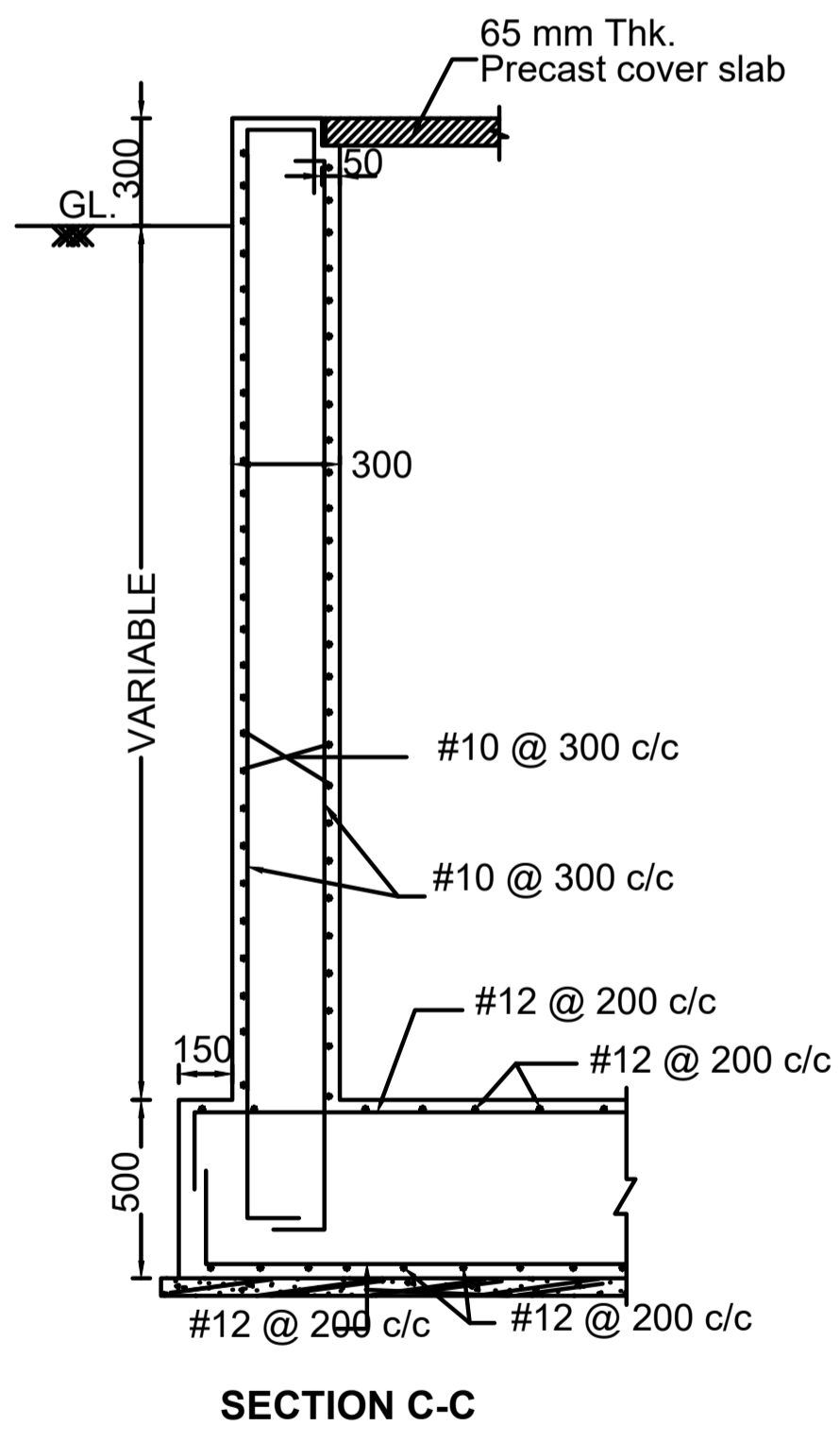
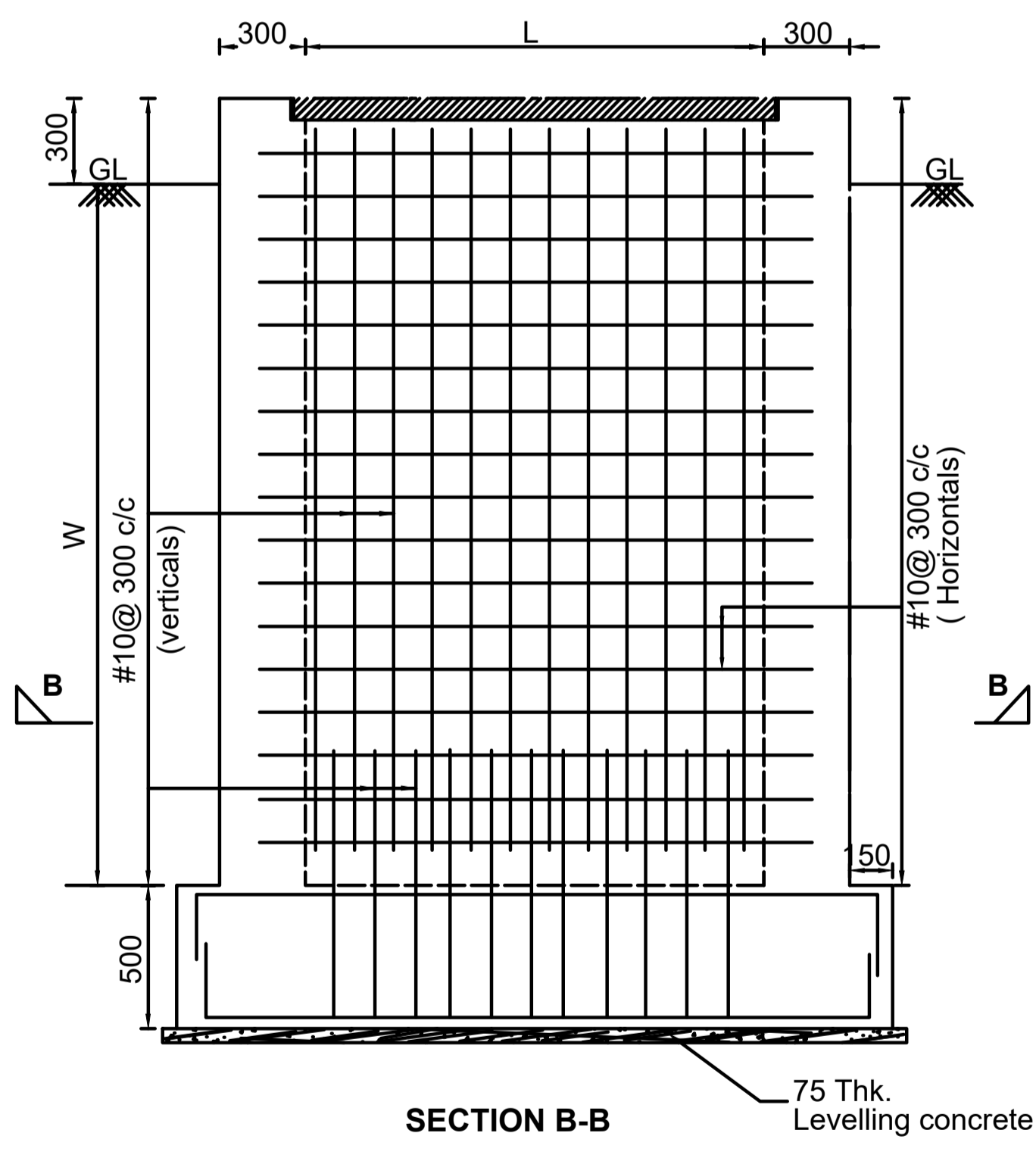
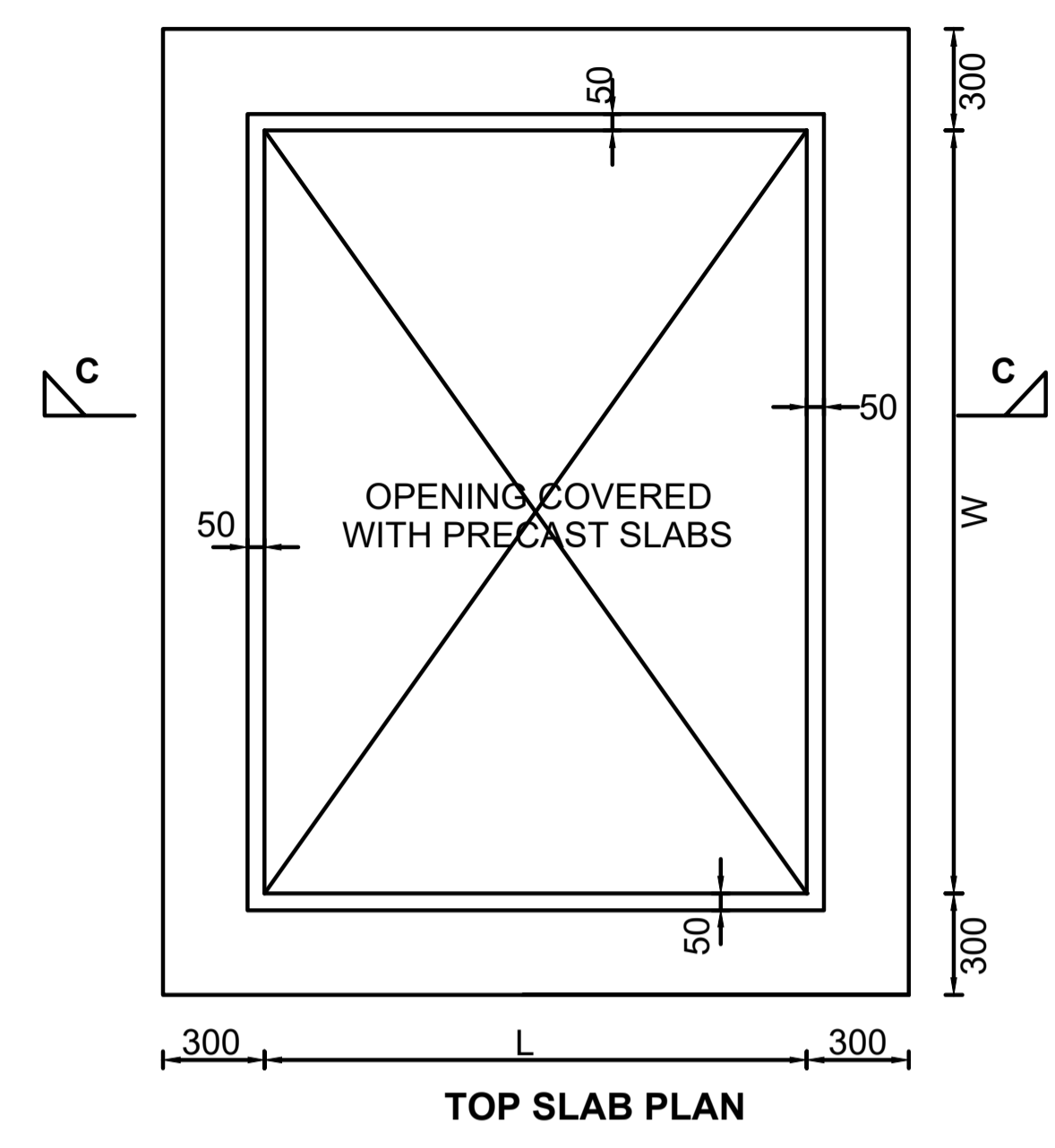
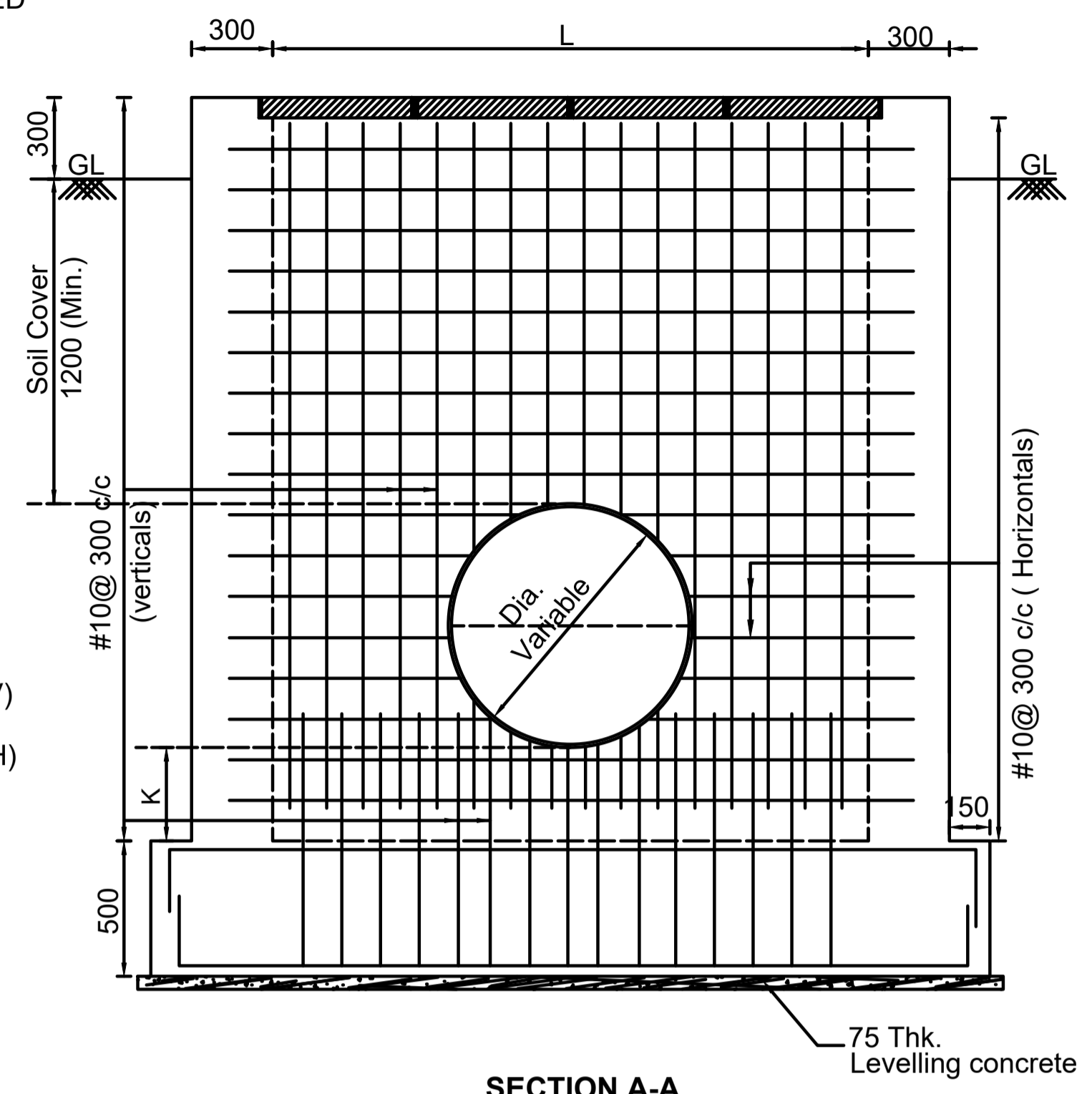
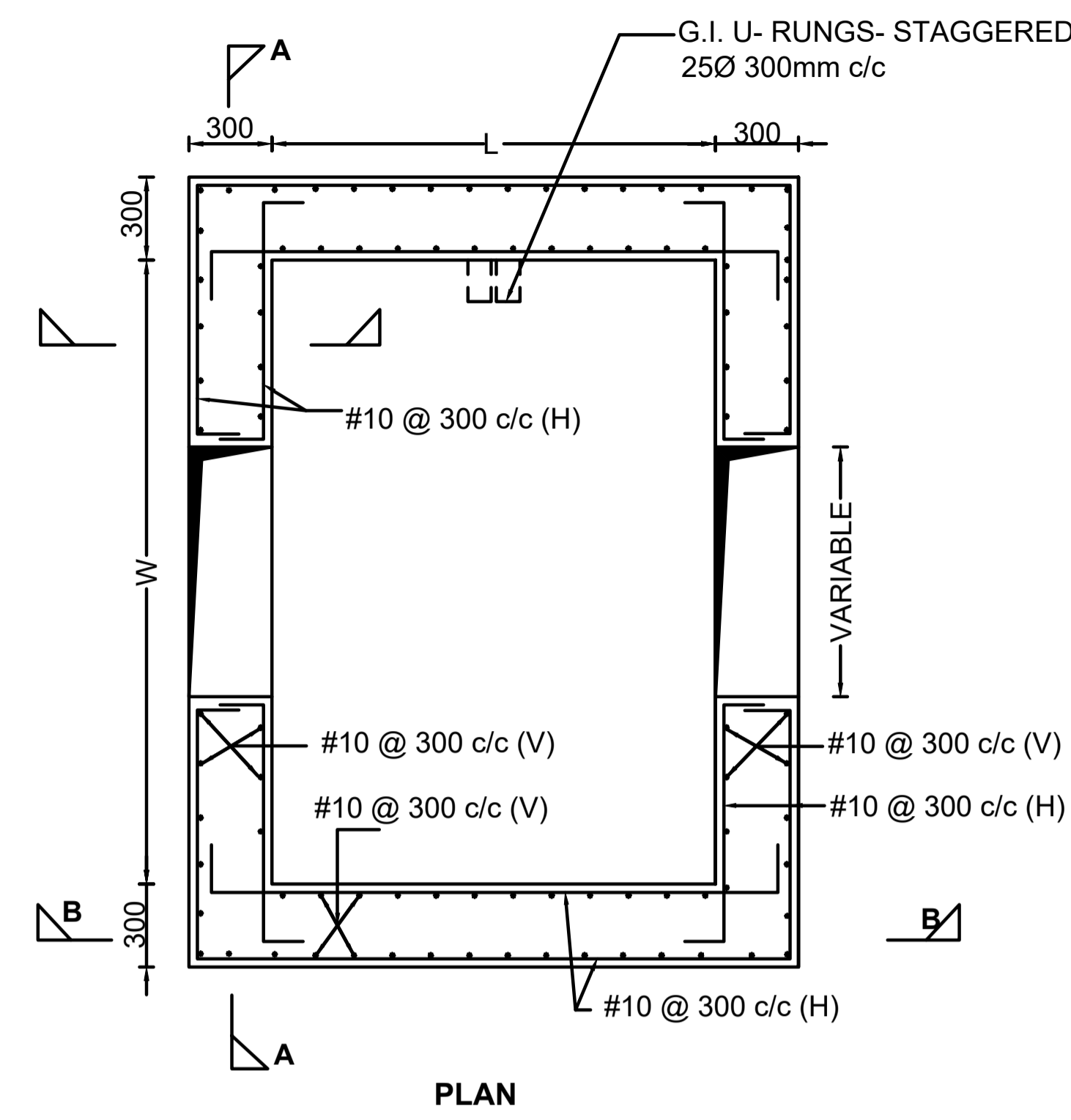


NOTES:	
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.	
2. DO NOT SCALE THIS DRAWING. FOLLOW FIGURED DIMENSIONS ONLY.	
3. THE GRADE OF CONCRETE IS C35.	
4. YIELD STRENGTH OF STEEL IS 450 N/Sq.mm.	
5. ENSURE SAFE BEARING CAPACITY AT THE FOUNDATION LEVEL OF THRUST BLOCK AS 100 kN/Sq.m.	
Client :	REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT
Project :	KABUYANDA IRRIGATON SCHEME
Title :	CHAMBER DETAILS AT JUNCTION 269
Consultants :	 aarvee associates architects engineers consultants pvt.ltd.& Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India Tel: +91 -40-23737633; Fax: +91 -4023736277 e-mail: irrigation@aarvee.net; web:www.aarvee.net
Drg. No.	AA/IRR/2238/KIS/TB/Y-JCT/01
Date	16-04-2022

NOTES:-

1. ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
 2. NO DIMENSIONS SHALL BE MEASURED. BARS SHOULD NOT BE COUNTED.
 3. GRADE OF CONCRETE C 35 EXCEPT LEAN CONCRETE WHICH IS C 20
 4. YIELD STRENGTH OF STEEL IS 450 N / Sq.mm
 5. LAP LENGTHS / DEVELOPMENT LENGTHS SHALL BE 50 x DIA. OF BAR.
 6. MINIMUM CLEAR COVER FOR REINFORCEMENT SHALL BE FOR WALLS & BASE SLAB : 50 mm , TOP SLAB : 15 mm.
 7. THE GAPS IN PRECAST COVER SLAB PANELS SHALL BE SEALED WITH BITUMEN AFTER INSTALLATION OF BVF.
 8. BASE SLAB SHALL REST ON FIRM STRATA WITH SBC NOT LESS THAN 50 kN / Sq.mm
- BACKFILLING SHALL BE WITH SOILS WITH ϕ VALUE NOT LESS THAN 32°

VALVE CHAMBER	CHAMBER DIMENSIONS (mm)		
	Length	Width	Wall thickness
A	6400	4000	300
B	3000	2500	300
C	5500	2500	300



LEGEND:

- TOP BAR (T)
- BOTTOM BAR (B)

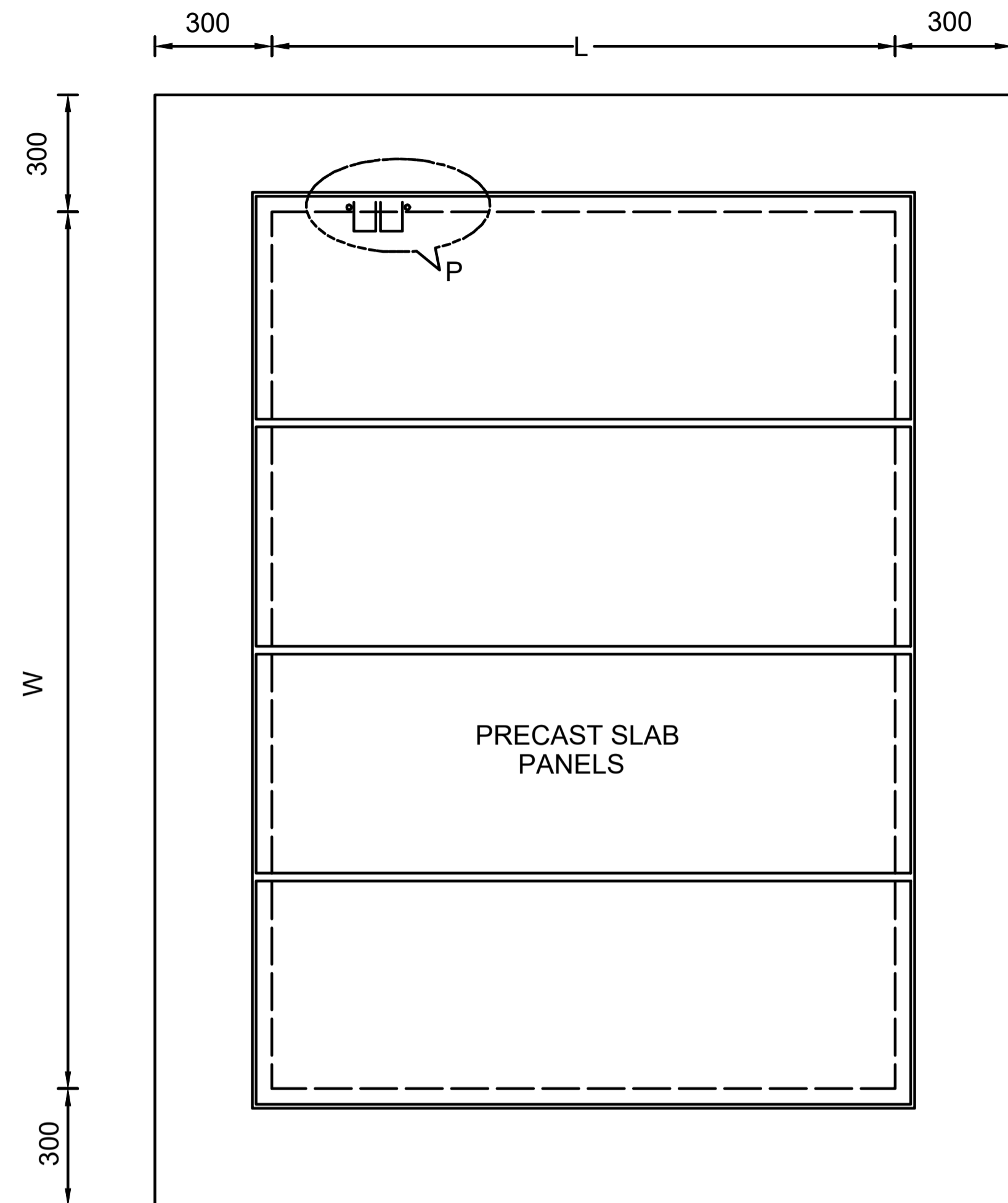
Client : **REPUBLIC OF UGANDA**
MINISTRY OF WATER AND ENVIRONMENT

Project : **KABUYANDA IRRIGATION SCHEME**

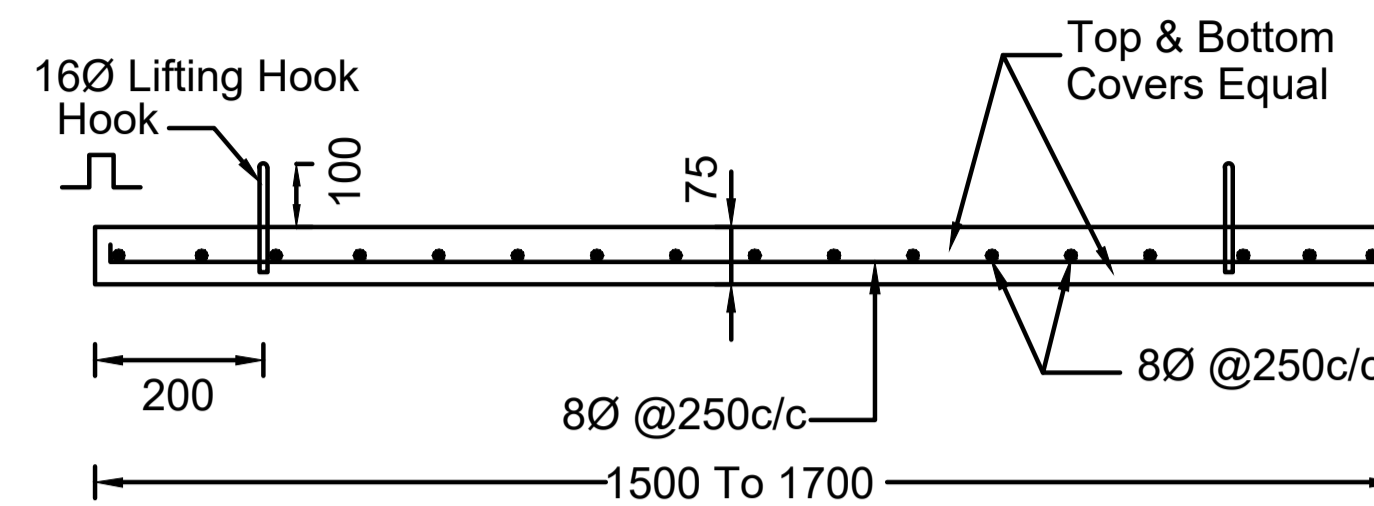
Title : **REINFORCEMENT DETAILS FOR PRECAST COVER PANELS COMBINED BV/SV/AV CHAMBERS AT JUNCTIONS 12, 59, 204, 269**

Consultants :

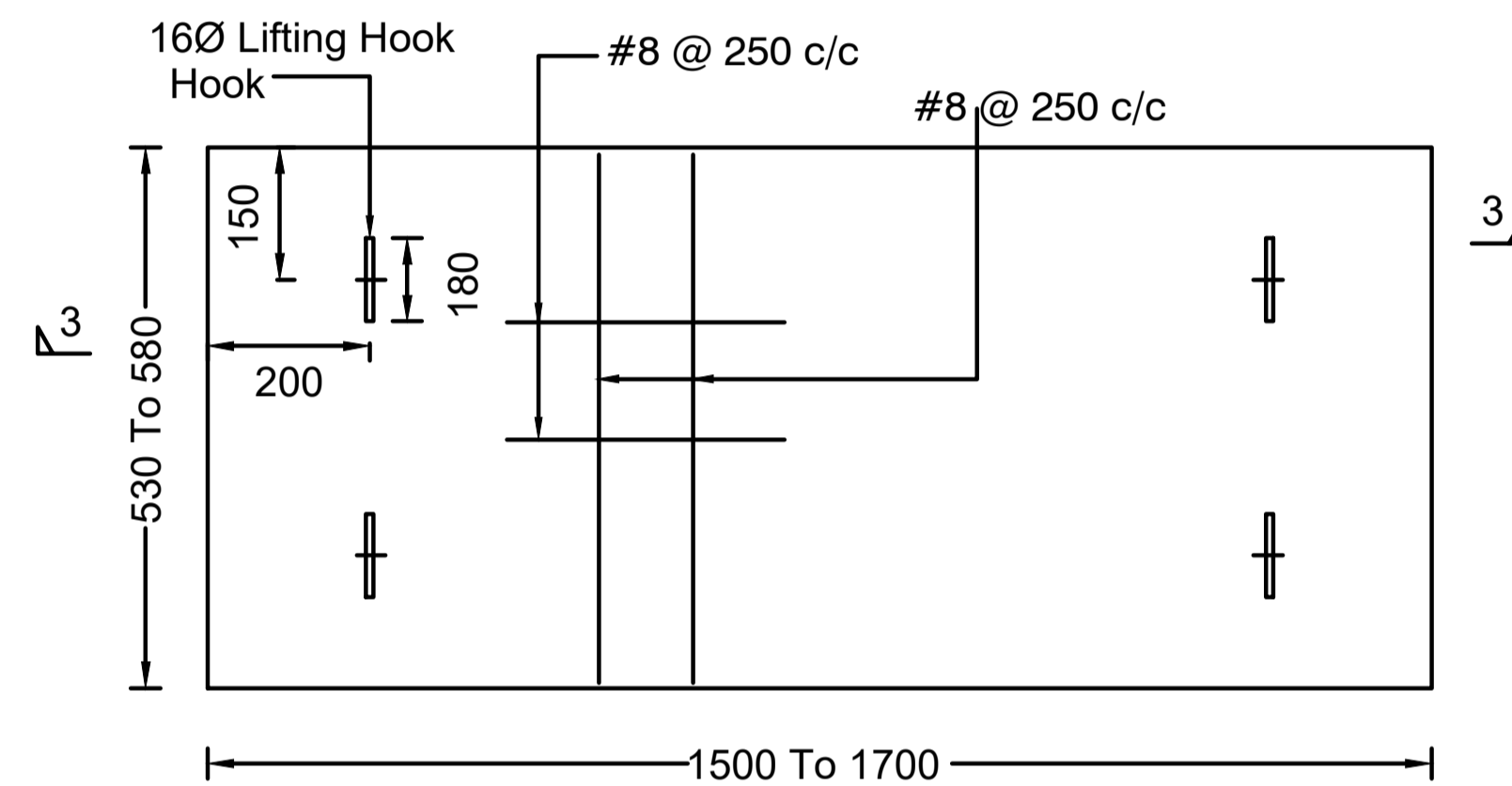
aarvee associates
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 Ravula Residency, Srinagar Colony Main Rd., Hyderabad-82, India
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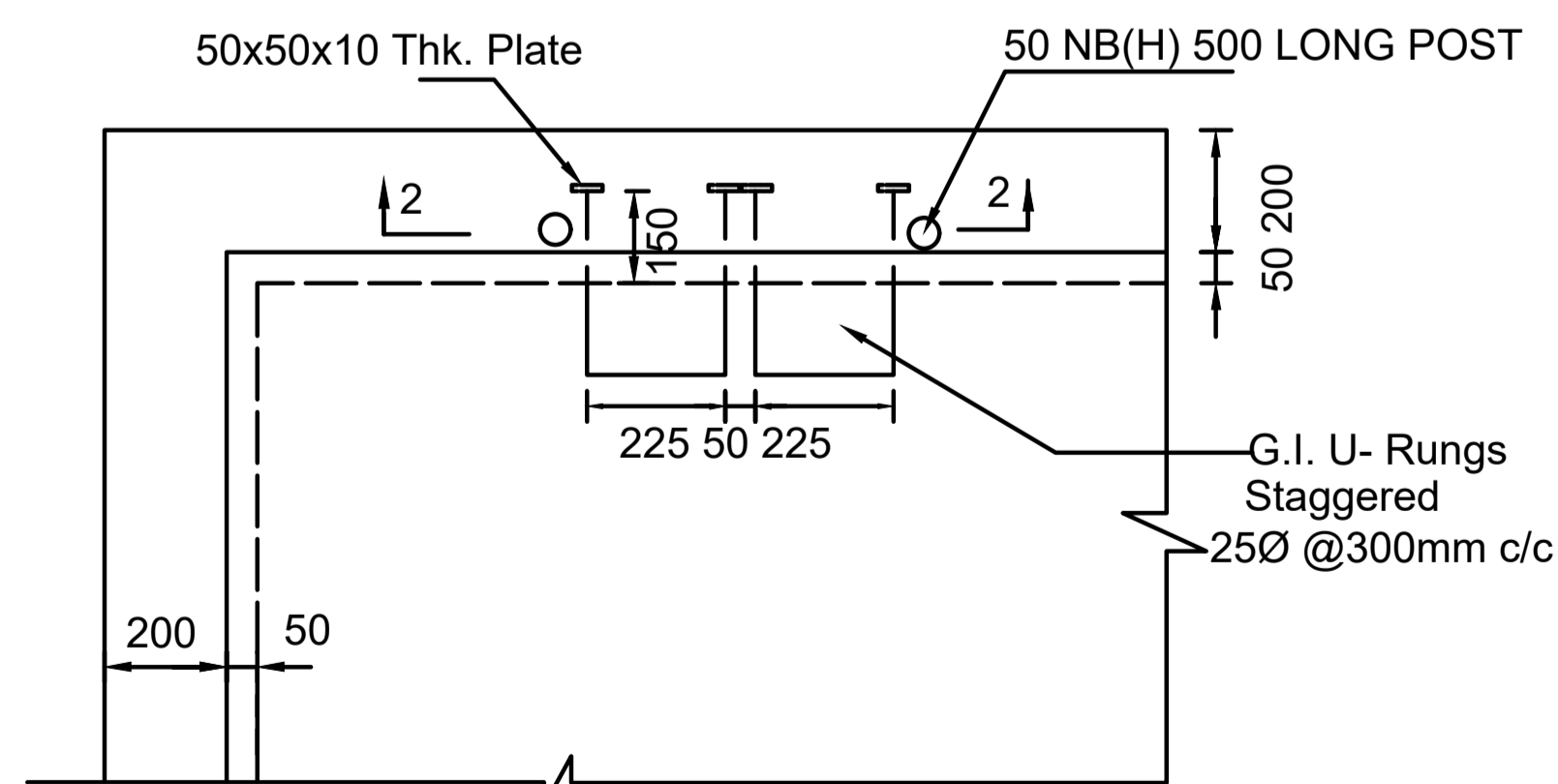
**PLAN
TOP SLAB OPENING**



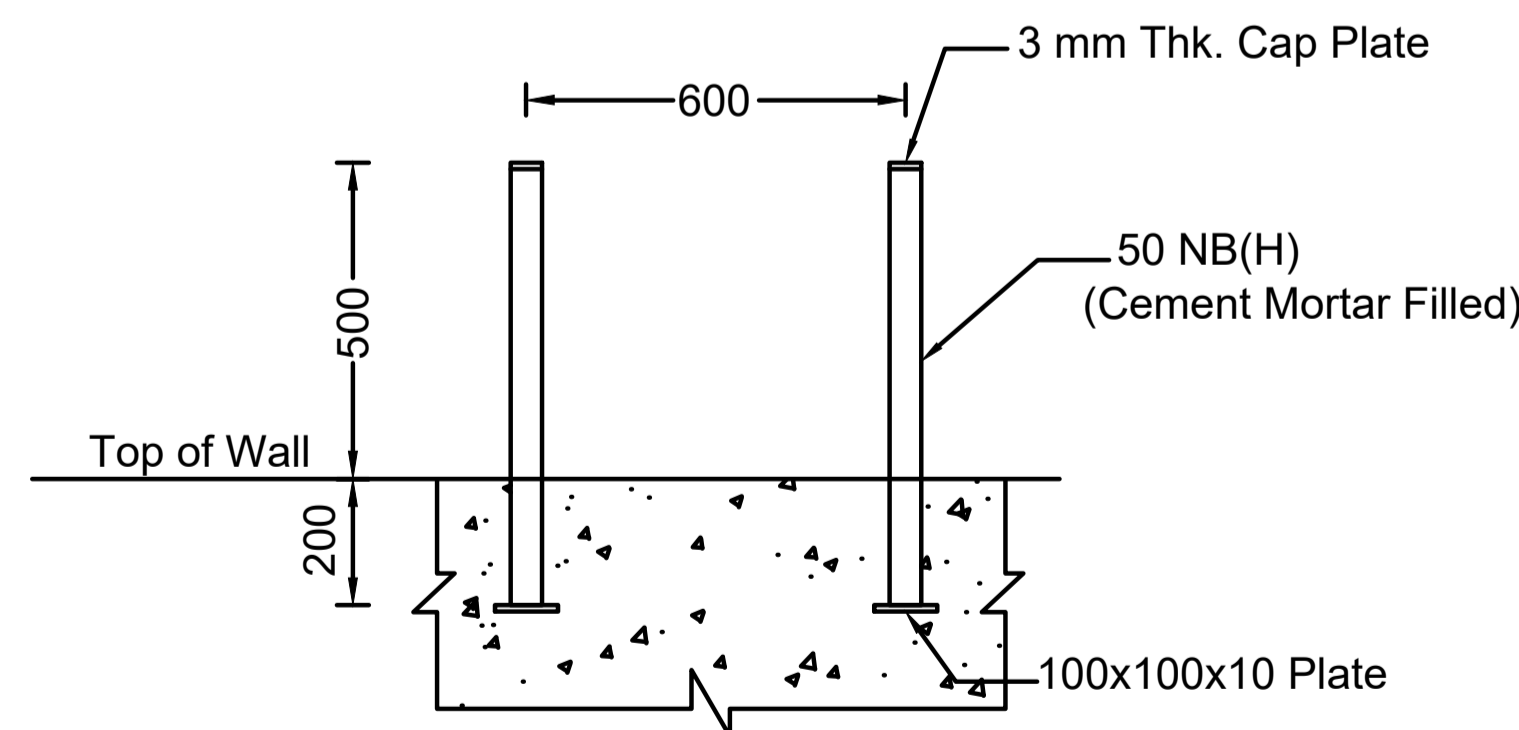
SECTION : 3-3



**PLAN
PRECAST COVER PANELS**



DETAIL - P



SECTION : 2-2

NOTES:-

- 1) ALL DIMENSIONS ARE IN mm. UNLESS OTHERWISE SPECIFIED.
- 2) DO NOT SCALE DRAWING FOLLOW FIGURED DIMENSIONS ONLY.
- 3) THE GAPS IN PRECAST COVER SLAB PANELS SHALL BE SEALED WITH BITUMEN AFTER INSTALLATION OF BFV.

VALVE CHAMBER	CHAMBER DIMENSIONS (mm)		
	Length	Width	Wall thickness
A	6400	4000	300
B	3000	2500	300
C	5500	2500	300

Client : REPUBLIC OF UGANDA
MINISTRY OF WATER AND ENVIRONMENT

Project : KABUYANDA IRRIGATION SCHEME

Title : **REINFORCEMENT DETAILS FOR
PRECAST COVER PANELS COMBINED BV/SV/AV
CHAMBERS AT JUNCTIONS 12, 59, 204, 269**

Consultants :



aarvee associates
architects engineers consultants pvt.ltd.&
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