



HYDRAULIC DESIGN CHART FOR STORM WATER DRAINAGE NETWORK

Node	Diameter	Slope (1 in N)	L.O.P.	F.I.L.	Levels at Start	Levels at End	Depth				
From	To	mm	1:n	mtrs.	mtrs.	RL	IL	RL	IL	mtrs	mtrs
1	2	300	500	81.00	0.162	0.00	-0.80	0.00	-0.96	0.80	0.96
2a	2b	300	500	74.00	0.148	0.00	-0.80	0.00	-0.95	0.80	0.95
2b	2	300	500	4.60	0.009	0.00	-0.95	0.00	-0.96	0.95	0.96
2	3	300	500	92.00	0.184	0.00	-0.96	0.00	-1.15	0.96	1.15
3	4	300	500	4.60	0.009	0.00	-1.15	0.00	-1.16	1.15	1.16
4a	4	300	500	79.00	0.158	0.00	-0.80	0.00	-0.96	0.80	0.96
4	7	300	500	35.00	0.070	0.00	-1.16	0.00	-1.23	1.16	1.23
5a	5	300	500	17.00	0.034	0.00	-0.80	0.00	-0.83	0.80	0.83
5	6	300	500	75.00	0.150	0.00	-0.83	0.00	-0.98	0.83	0.98
6a	6b	300	500	65.00	0.130	0.00	-0.80	0.00	-0.93	0.80	0.93
6b	6	300	500	4.60	0.009	0.00	-0.98	0.00	-0.99	0.98	0.99
6	7	300	500	92.00	0.184	0.00	-0.98	0.00	-1.17	0.98	1.17
7	8	400	600	4.60	0.008	0.00	-1.33	0.00	-1.33	1.33	1.33
8a	8	300	500	79.00	0.158	0.00	-0.80	0.00	-0.96	0.80	0.96
8	12	400	600	35.00	0.058	0.00	-1.33	0.00	-1.39	1.33	1.39
9a	9	300	500	18.00	0.036	0.00	-0.80	0.00	-0.84	0.80	0.84
9	10	300	500	83.00	0.166	0.00	-0.84	0.00	-1.00	0.84	1.00
10a	10	300	500	59.00	0.118	0.00	-0.80	0.00	-0.92	0.80	0.92
10	11	300	500	49.00	0.098	0.00	-1.00	0.00	-1.10	1.00	1.10
11a	11	300	500	57.00	0.114	0.00	-0.80	0.00	-0.91	0.80	0.91
11	12	300	500	29.00	0.058	0.00	-1.10	0.00	-1.16	1.10	1.16
12	13	500	800	29.00	0.036	0.00	-1.49	0.00	-1.53	1.49	1.53
13a	13	300	500	27.00	0.054	0.00	-0.80	0.00	-0.85	0.80	0.85
13	Outfall	500	800	3.00	0.004	0.00	-1.53	0.00	-1.53	1.53	1.53



S.NO.	SYMBOL	DESCRIPTION
1.	⊙	STORM WATER DRAINAGE MANHOLE
2.	—	(RCC) STORM PIPE
3.	STP	SEWAGE TREATMENT PLANT
4.	OHT	OVER HEAD TANK
5.	UGT	UNDER GROUND TANK
6.	23a	NODE
7.	R.L.	ROAD LEVEL
8.	I.L.	INVERT LEVEL
9.	C.L.	CONNECTION LEVEL
10.	☔	RAIN WATER HARVESTING PIT WITH DE-SILTING CHAMBER

LAYOUT PLAN

STAGE :	GFC	
DATE:	19.09.2019	
REV.NO.	-	
JOB TITLE-	HES-FP	
REV. NOTES:		
DATE:	REV.	DESCRIPTION
CLIENT :		
ARCHITECT:		
MEP CONSULTANTS:	HABITAT ENGINEERING SERVICES PVT. LTD. Neb Sarai, New Delhi-110068 Tel: 7217662363 Email :- habitatengineeringservices@gmail.com	
PROJECT :	DWARKA AT MATHURA	
DWG. TITLE :	STORM DRAINAGE LAYOUT	
DWG. NO :	HES/FP/SD-102	
SCALE :	1:75 @ A2	
DRAWN BY:	N.S.P.	
CHECKED BY :	NAVEEN KUMAR	
APPROVED BY:	JANARDAN SINGH	

