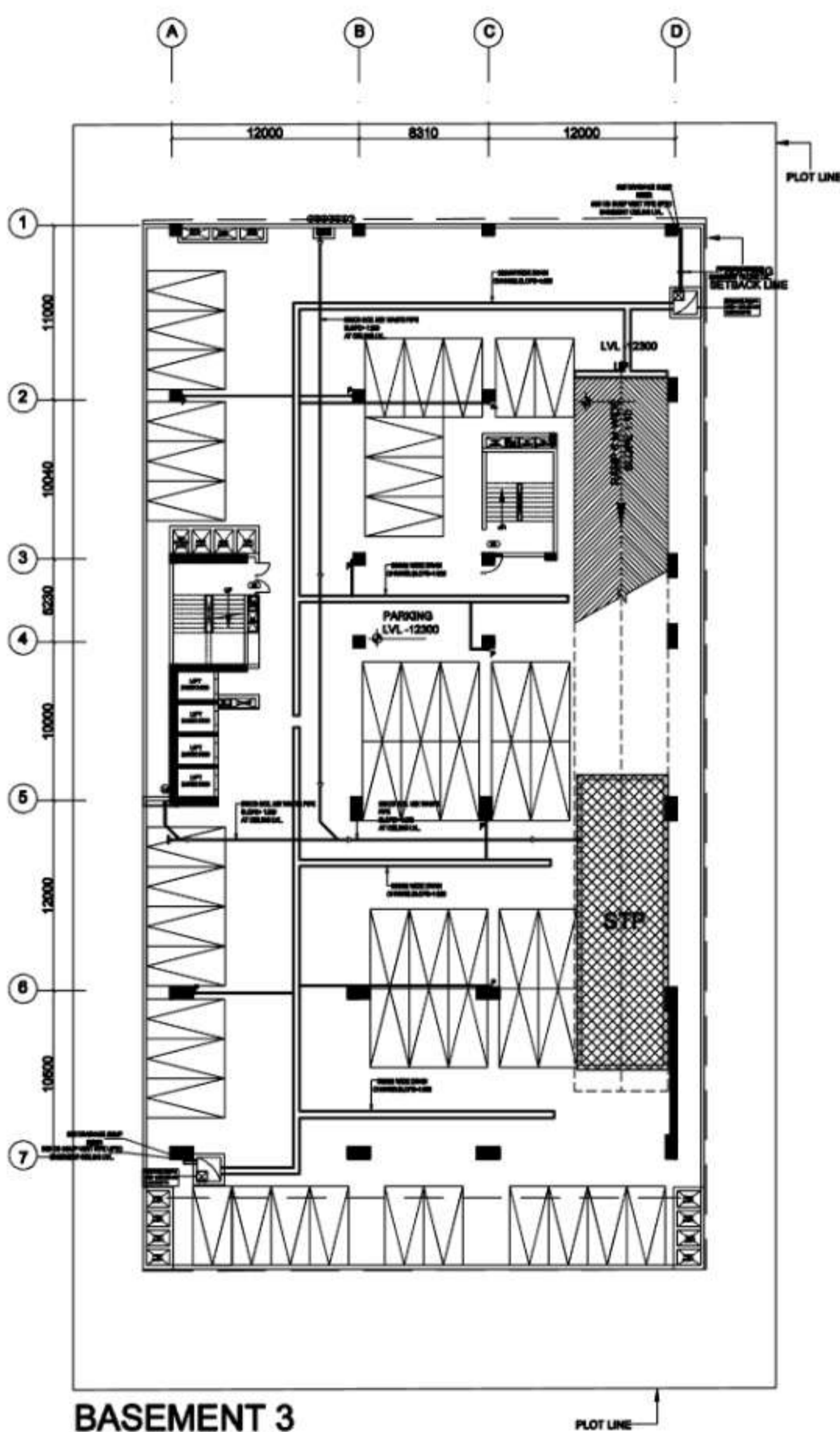


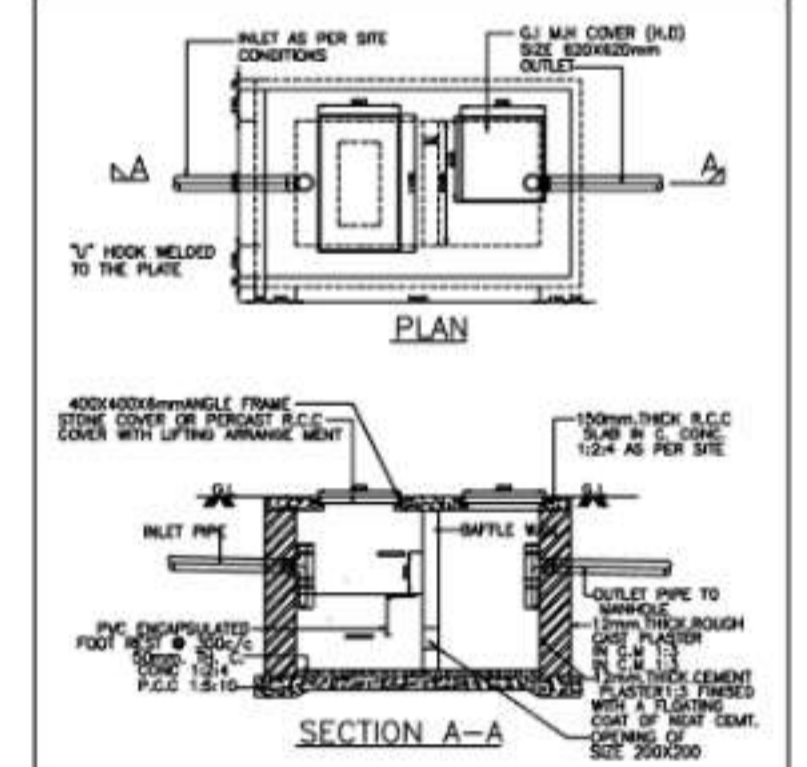
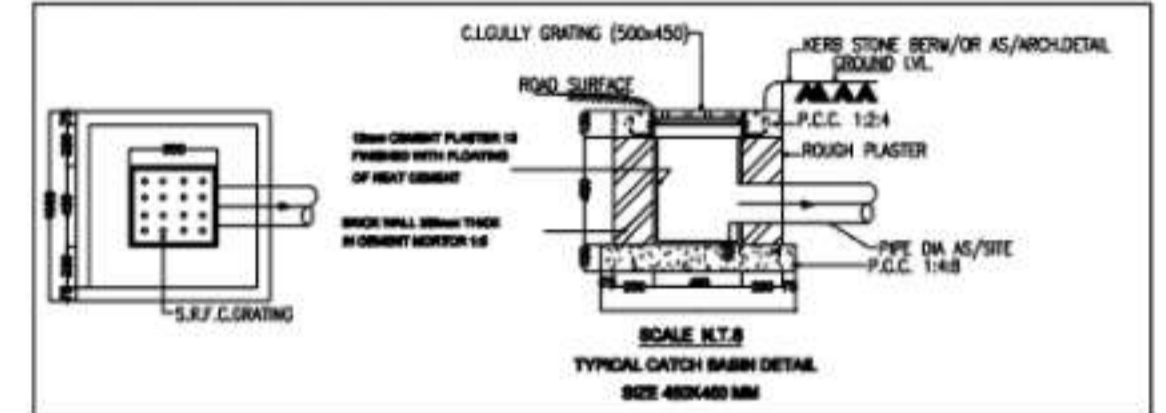
S. No.	DESCRIPTION	Total Area (sqm)	Occupant (No. per sqm)	Total Liters (LPH)	Water Req. / Person		Water Req. / Sqm		Flow to Sewer (LPH)
					Min. (LPH)	Max. (LPH)	Min. (LPH)	Max. (LPH)	
1	Basement & Ground Floor	1027	3	3081	10	20	3.0	6.0	3081
2	1st & 2nd Floor	2184	6	13104	10	20	4.6	9.2	13104
3	3rd & 4th Floor	1386	10	13860	10	20	7.8	15.6	13860
4	5th & 6th Floor	1386	10	13860	10	20	7.8	15.6	13860
5	7th & 8th Floor	1386	10	13860	10	20	7.8	15.6	13860
6	9th & 10th Floor	1386	10	13860	10	20	7.8	15.6	13860
7	11th & 12th Floor	1386	10	13860	10	20	7.8	15.6	13860
8	13th & 14th Floor	1386	10	13860	10	20	7.8	15.6	13860
9	15th & 16th Floor	1386	10	13860	10	20	7.8	15.6	13860
10	17th & 18th Floor	1386	10	13860	10	20	7.8	15.6	13860
11	19th & 20th Floor	1386	10	13860	10	20	7.8	15.6	13860
12	21st & 22nd Floor	1386	10	13860	10	20	7.8	15.6	13860
13	23rd & 24th Floor	1386	10	13860	10	20	7.8	15.6	13860
14	25th & 26th Floor	1386	10	13860	10	20	7.8	15.6	13860
15	27th & 28th Floor	1386	10	13860	10	20	7.8	15.6	13860
16	29th & 30th Floor	1386	10	13860	10	20	7.8	15.6	13860
17	31st & 32nd Floor	1386	10	13860	10	20	7.8	15.6	13860
18	33rd & 34th Floor	1386	10	13860	10	20	7.8	15.6	13860
19	35th & 36th Floor	1386	10	13860	10	20	7.8	15.6	13860
20	37th & 38th Floor	1386	10	13860	10	20	7.8	15.6	13860
21	39th & 40th Floor	1386	10	13860	10	20	7.8	15.6	13860
22	41st & 42nd Floor	1386	10	13860	10	20	7.8	15.6	13860
23	43rd & 44th Floor	1386	10	13860	10	20	7.8	15.6	13860
24	45th & 46th Floor	1386	10	13860	10	20	7.8	15.6	13860
25	47th & 48th Floor	1386	10	13860	10	20	7.8	15.6	13860
26	49th & 50th Floor	1386	10	13860	10	20	7.8	15.6	13860
27	51st & 52nd Floor	1386	10	13860	10	20	7.8	15.6	13860
28	53rd & 54th Floor	1386	10	13860	10	20	7.8	15.6	13860
29	55th & 56th Floor	1386	10	13860	10	20	7.8	15.6	13860
30	57th & 58th Floor	1386	10	13860	10	20	7.8	15.6	13860
31	59th & 60th Floor	1386	10	13860	10	20	7.8	15.6	13860
32	61st & 62nd Floor	1386	10	13860	10	20	7.8	15.6	13860
33	63rd & 64th Floor	1386	10	13860	10	20	7.8	15.6	13860
34	65th & 66th Floor	1386	10	13860	10	20	7.8	15.6	13860
35	67th & 68th Floor	1386	10	13860	10	20	7.8	15.6	13860
36	69th & 70th Floor	1386	10	13860	10	20	7.8	15.6	13860
37	71st & 72nd Floor	1386	10	13860	10	20	7.8	15.6	13860
38	73rd & 74th Floor	1386	10	13860	10	20	7.8	15.6	13860
39	75th & 76th Floor	1386	10	13860	10	20	7.8	15.6	13860
40	77th & 78th Floor	1386	10	13860	10	20	7.8	15.6	13860
41	79th & 80th Floor	1386	10	13860	10	20	7.8	15.6	13860
42	81st & 82nd Floor	1386	10	13860	10	20	7.8	15.6	13860
43	83rd & 84th Floor	1386	10	13860	10	20	7.8	15.6	13860
44	85th & 86th Floor	1386	10	13860	10	20	7.8	15.6	13860
45	87th & 88th Floor	1386	10	13860	10	20	7.8	15.6	13860
46	89th & 90th Floor	1386	10	13860	10	20	7.8	15.6	13860
47	91st & 92nd Floor	1386	10	13860	10	20	7.8	15.6	13860
48	93rd & 94th Floor	1386	10	13860	10	20	7.8	15.6	13860
49	95th & 96th Floor	1386	10	13860	10	20	7.8	15.6	13860
50	97th & 98th Floor	1386	10	13860	10	20	7.8	15.6	13860
51	99th & 100th Floor	1386	10	13860	10	20	7.8	15.6	13860
52	101st & 102nd Floor	1386	10	13860	10	20	7.8	15.6	13860
53	103rd & 104th Floor	1386	10	13860	10	20	7.8	15.6	13860
54	105th & 106th Floor	1386	10	13860	10	20	7.8	15.6	13860
55	107th & 108th Floor	1386	10	13860	10	20	7.8	15.6	13860
56	109th & 110th Floor	1386	10	13860	10	20	7.8	15.6	13860
57	111th & 112th Floor	1386	10	13860	10	20	7.8	15.6	13860
58	113th & 114th Floor	1386	10	13860	10	20	7.8	15.6	13860
59	115th & 116th Floor	1386	10	13860	10	20	7.8	15.6	13860
60	117th & 118th Floor	1386	10	13860	10	20	7.8	15.6	13860
61	119th & 120th Floor	1386	10	13860	10	20	7.8	15.6	13860
62	121st & 122nd Floor	1386	10	13860	10	20	7.8	15.6	13860
63	123rd & 124th Floor	1386	10	13860	10	20	7.8	15.6	13860
64	125th & 126th Floor	1386	10	13860	10	20	7.8	15.6	13860
65	127th & 128th Floor	1386	10	13860	10	20	7.8	15.6	13860
66	129th & 130th Floor	1386	10	13860	10	20	7.8	15.6	13860
67	131st & 132nd Floor	1386	10	13860	10	20	7.8	15.6	13860
68	133rd & 134th Floor	1386	10	13860	10	20	7.8	15.6	13860
69	135th & 136th Floor	1386	10	13860	10	20	7.8	15.6	13860
70	137th & 138th Floor	1386	10	13860	10	20	7.8	15.6	13860
71	139th & 140th Floor	1386	10	13860	10	20	7.8	15.6	13860
72	141st & 142nd Floor	1386	10	13860	10	20	7.8	15.6	13860
73	143rd & 144th Floor	1386	10	13860	10	20	7.8	15.6	13860
74	145th & 146th Floor	1386	10	13860	10	20	7.8	15.6	13860
75	147th & 148th Floor	1386	10	13860	10	20	7.8	15.6	13860
76	149th & 150th Floor	1386	10	13860	10	20	7.8	15.6	13860
77	151st & 152nd Floor	1386	10	13860	10	20	7.8	15.6	13860
78	153rd & 154th Floor	1386	10	13860	10	20	7.8	15.6	13860
79	155th & 156th Floor	1386	10	13860	10	20	7.8	15.6	13860
80	157th & 158th Floor	1386	10	13860	10	20	7.8	15.6	13860
81	159th & 160th Floor	1386	10	13860	10	20	7.8	15.6	13860
82	161st & 162nd Floor	1386	10	13860	10	20	7.8	15.6	13860
83	163rd & 164th Floor	1386	10	13860	10	20	7.8	15.6	13860
84	165th & 166th Floor	1386	10	13860	10	20	7.8	15.6	13860
85	167th & 168th Floor	1386	10	13860	10	20	7.8	15.6	13860
86	169th & 170th Floor	1386	10	13860	10	20	7.8	15.6	13860
87	171st & 172nd Floor	1386	10	13860	10	20	7.8	15.6	13860
88	173rd & 174th Floor	1386	10	13860	10	20	7.8	15.6	13860
89	175th & 176th Floor	1386	10	13860	10	20	7.8	15.6	13860
90	177th & 178th Floor	1386	10	13860	10	20	7.8	15.6	13860
91	179th & 180th Floor	1386	10	13860	10	20	7.8	15.6	13860
92	181st & 182nd Floor	1386	10	13860	10	20	7.8	15.6	13860
93	183rd & 184th Floor	1386	10	13860	10	20	7.8	15.6	13860
94	185th & 186th Floor	1386	10	13860	10	20	7.8	15.6	13860
95	187th & 188th Floor	1386	10	13860	10	20	7.8	15.6	13860
96	189th & 190th Floor	1386	10	13860	10	20	7.8	15.6	13860
97	191st & 192nd Floor	1386	10	13860	10	20	7.8	15.6	13860
98	193rd & 194th Floor	1386	10	13860	10	20	7.8	15.6	13860
99	195th & 196th Floor	1386	10	13860	10	20	7.8	15.6	13860
100	197th & 198th Floor	1386	10	13860	10	20	7.8	15.6	13860
101	199th & 200th Floor	1386	10	13860	10	20	7.8	15.6	13860
102	201st & 202nd Floor	1386	10	13860	10	20	7.8	15.6	13860
103	203rd & 204th Floor	1386	10	13860	10	20	7.8	15.6	13860
104	205th & 206th Floor	1386	10	13860	10	20	7.8	15.6	13860
105	207th & 208th Floor	1386	10	13860	10	20	7.8	15.6	13860
106	209th & 210th Floor	1386	10	13860	10	20	7.8	15.6	13860
107	211st & 212th Floor	1386	10	13860	10	20	7.8	15.6	13860
108	213rd & 214th Floor	1386	10	13860	10	20	7.8	15.6	13860
109	215th & 216th Floor	1386	10	13860	10	20	7.8	15.6	13860
110	217th & 218th Floor	1386	10	13860	10	20	7.8	15.6	13860
111	219th & 220th Floor	1386	10	13860	10	20	7.8	15.6	13860
112	221st & 222nd Floor	1386							



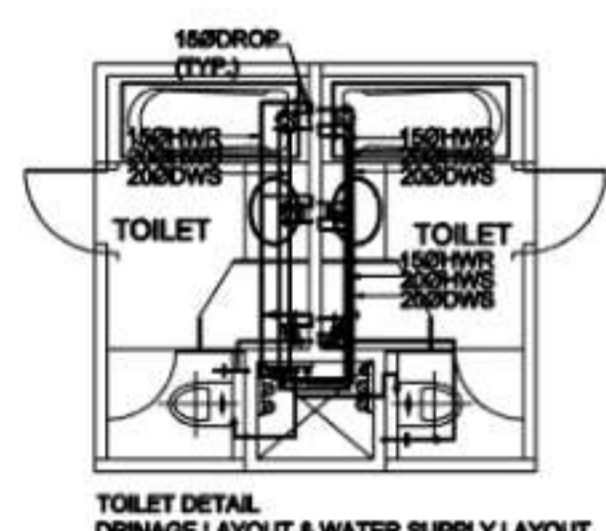
BASEMENT 3

S. No.	DESCRIPTION	Total Area / Room	Occupant / Room per person	Water Req. / Person					Flow to		Flow to Sewer LPD
				Total	Non-Potable LPD	Potable Hot LPD	Potable Cold LPD	Potable Non-Potable LPD	Hot Potable LPD	Cold Potable LPD	
1	Basement & Ground Floor	1027	3	300							
	Shops (Fixed Population)	61	20	7	18	1,320	437	1,088	1,320	1,390	3,546
	Shops (Floating Population)	540	10	2	3	5,400	1,080	1,647	5,400	2,333	7,803
2	1st & 2nd floor Shops	2164	6	361							
	Shops (Fixed Population)	37	20	7	18	740	239	686	740	786	1,526
	Shops (Floating Population)	320	10	2	3	3,200	640	975	3,200	1,381	4,601
3	3rd floor Office	1388	10	140							
	Fixed Population	14	20	7	18	280	88	252	280	298	578
	Floating Population	125	10	2	3	1,250	250	375	1,250	531	1,781
4	4th & 5th floor Garment	1021	1.4	1159							
	Fixed Population	14	20	7	18	140	43	126	140	149	289
	Floating Population	1007	1.4	1159							
5	7th to 15th floor Guest room	144	2	288							
	Fixed Population	14	20	7	18	280	88	252	280	298	578
	Floating Population	130	1.4	1159							
6	17th floor Club Area	321	1.4	222							
	Fixed Population	14	20	7	18	280	88	252	280	298	578
	Floating Population	307	1.4	222							
7	18th floor Top Roof Restaurant	330	1.6	180							
	Fixed Population	14	20	7	18	280	88	252	280	298	578
	Floating Population	316	1.6	180							
8	Wider Backwash (2% of Total Water)					2175	911	308	2175		2175
9	Irrigation Water Requirement	1000									
	Total Non-Potable Water Demand (Flushing)					6247	4182	8548	9547	10402	19099
	Total Potable Water (Cold+ Hot)										8.0
	Total Non-Potable Water Demand (Garden Irrigation)										8.0
	Flow to Sewer (Say)										181.8
	20% extra as per MOPF requirements										193.8
	Available Treated Water from STP										144.5
	Available Treated Water After Recount										92.0

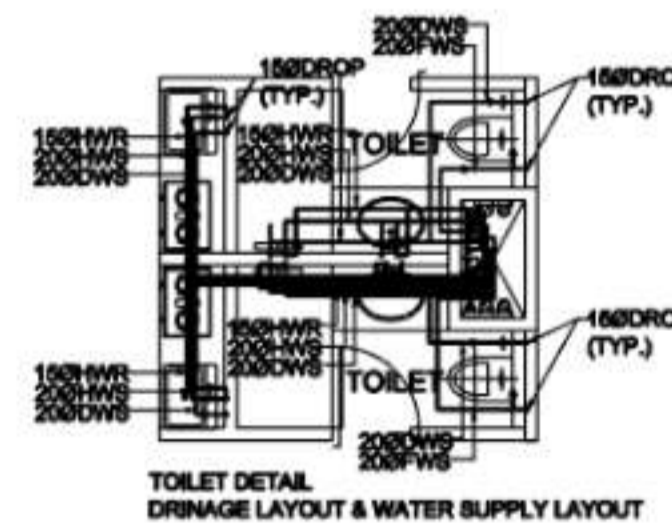
RAIN WATER HARVESTING PIT CALCULATION							
Sl.No.	Description	Area Considered in SQM.	Runoff Coefficient	Average Annual Rainfall (mm)	Total Volume of water available for RWH (cum/year)	Design hourly Intensity of Rainfall (mm/hr.)	Volume Of Rwh Pit Detention Tank Required For 15 Min Capacity
1	SITE AREA	3595					
2	ROOF TOP WATER	2299	0.90	435	900	45.0	46.55
3	PAVED SURFACES, ROADS AND OTHER BUILT UP AREAS	1096	0.60	435	286	45.0	14.80
4	LAWNS, GARDEN AND OTHER GREEN SPACES (ASSUMED OF TOTAL AREAS)	200	0.35	435	30	45.0	1.58
	TOTAL	3595			1185.51		62.93
	Volume of RWH pits required for 15 mins.						63
	Assumed depth of water in each recharge pit (m)						3.5
	Proposed Dia of Recharge Pits						4.2
	Desilting Pit (1.0x1.2x1.5)						1.8
	Oil and Grease Trap (1.0x1.2x1.5)						1.8
	Volume of proposed each RWH pit						52
	No. of recharge pits planned (4.2 M dia With 3.5 M Effective Depth)						1



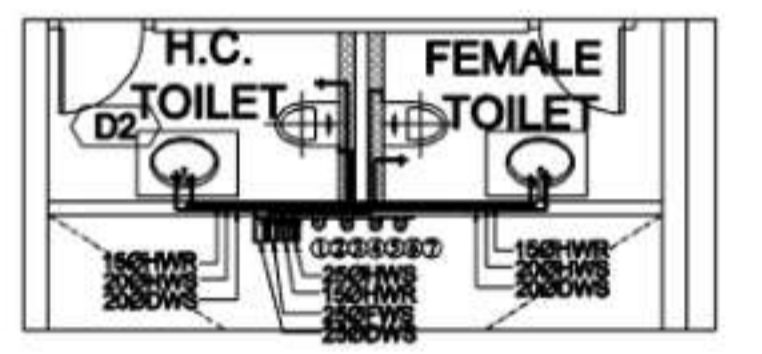
STANDARD DETAIL FOR GREASE TRAP



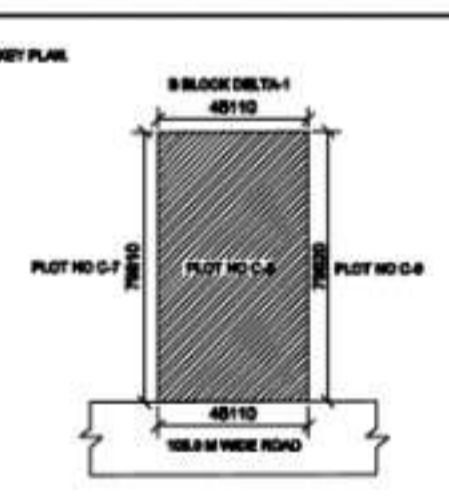
TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



15% SERVICE AREA



SYMBOL	DESCRIPTION
①	150 CO. SCL. PIPE VERTICAL
②	200 CO. SCL. PIPE VERTICAL
③	150 CO. WASTE PIPE VERTICAL
④	150 CO. HOT WATER PIPE VERTICAL
⑤	150 CO. COLD WATER PIPE VERTICAL
⑥	150 CO. WASH WATER PIPE VERTICAL
⑦	200 CO. WASH WATER PIPE VERTICAL
⑧	200 CO. FRESH WATER PIPE VERTICAL
⑨	FLOOR DRAIN
⑩	FLOOR TRAP
⑪	URINAL TRAP
⑫	CLEAN-OUT VALVE
⑬	OUTLET VALVE
⑭	150 CO. SCL. PIPE 90° TO VERTICAL (SLOPE 1:8)
⑮	150 CO. WASTE PPS (90° TO VERTICAL) (SLOPE 1:8)
⑯	150 CO. WASTE PIPE (90° TO F)
⑰	150 CO. WASTE PIPE (90° TO F) (SLOPE 1:8)
⑱	150 CO. SCL. PIPE (90° TO F) (SLOPE 1:8)

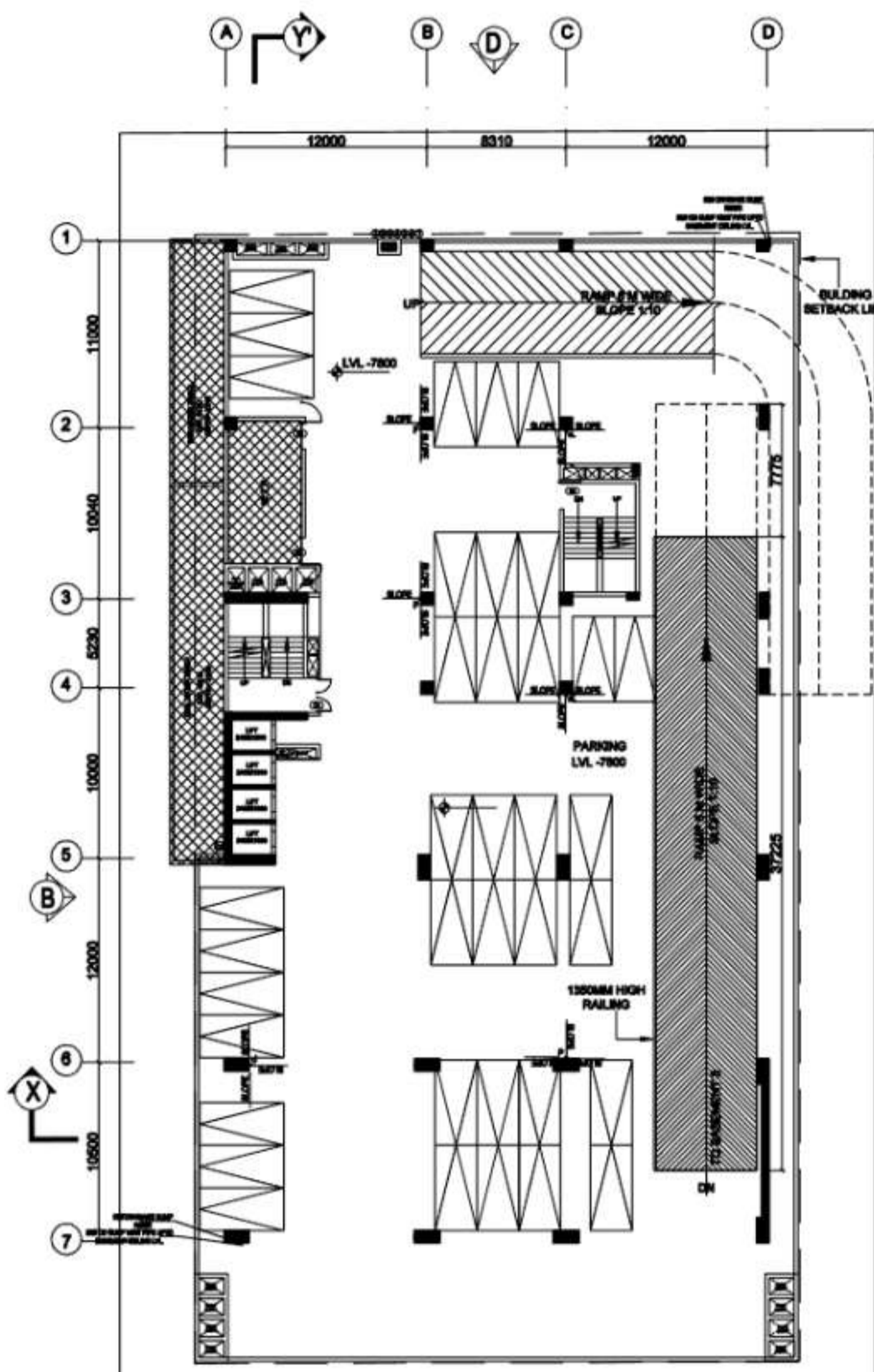
Prepared by: **A. KUMAR**
 Checked by: **VISHWAK**
 Approved by: **ARMA**

Project: **PROPOSED COMMERCIAL PROJECT "METRO WALK" FOR MR. LEVANTE PROJECTS Plot No. C-02, Block-Delta-1, G. Noida**

NIRMAN
 Civil project management, architecture, planning, interiors

PLUMBING SUBMISSION DRAWING
BASEMENT 3 PLAN

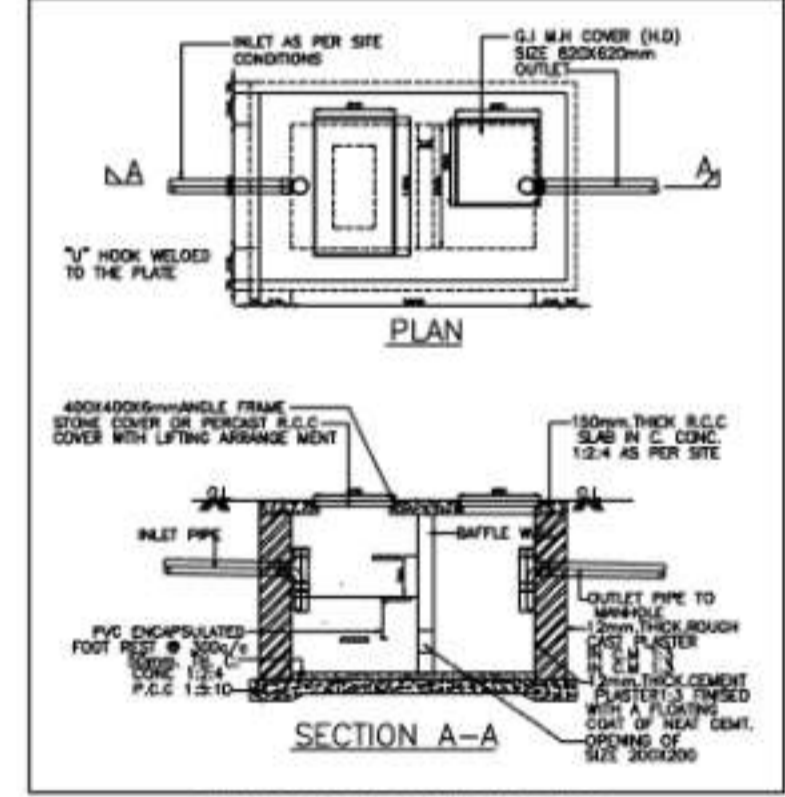
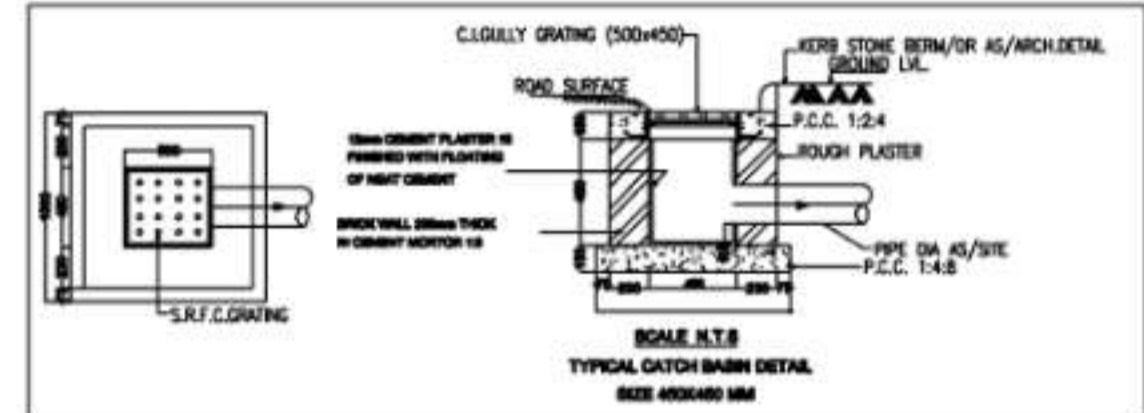
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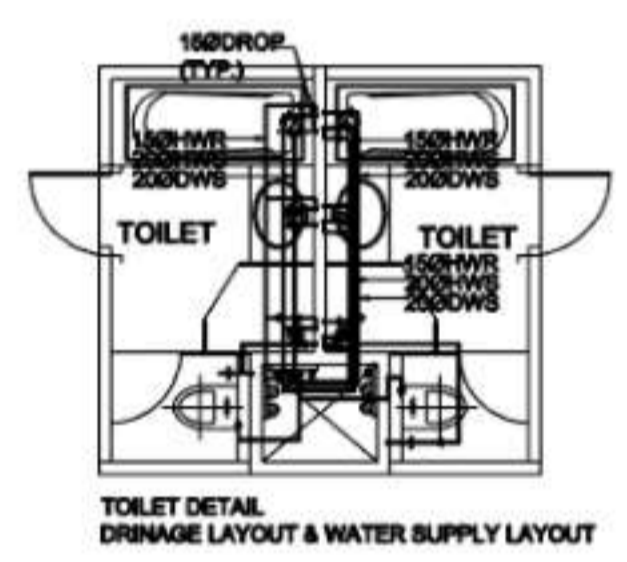
BASEMENT 2

S. No.	DESCRIPTION	Total Area / Rooms	Occupant (N)/person/ Room per person	Water Req. / Person				Water Req.			Flow to Sewer	
				Total LPCD	Non-Potable LPCD	Potable Hot LPCD	Potable Cold LPCD	Potable Hot LPD	Potable Cold LPD	Potable 100% LPD		
1	Basement & Ground Floor (Shops Fixed Population)	1827	3	603	10	7	18	1,225	427	1,098	1,226	2,516
2	1st & 2nd floor Shops (Shops Floating Population)	2164	6	361	10	2	3	5,436	1,096	1,847	5,400	7,823
3	3rd floor Office (Office Floating Population)	1388	10	140	10	7	18	740	258	660	740	1,526
4	4th & 5th floor Banquet (Banquet Floating Population)	1631	1.4	1163	15	20	38	17,476	20,100	40,776	17,476	84,664
5	7th to 15th floor Guest room (Guest room Floating Population)	144	2	288	60	30	30	17,261	8,640	25,920	17,261	46,658
6	17th floor Club Area (Club Floating Population)	321	1.4	229	20	8	17	4,588	1,834	3,988	4,588	6,872
7	18th floor Top floor Restaurant (Restaurant Floating Population)	335	1.8	185	15	20	35	2,792	3,720	6,514	2,792	11,462
8	Filter Basement (4% of Total Water)	1000						193	1611	508	2175	2175
9	Ingenium Water Requirement							193				
Total Non-Potable Water Demand (Flushing)								6247	4192	8348	5847	18644
Total Potable Water (Cold+ Hot)								56.5	Say	57.8		KLD
Total Non-Potable Water Demand (Sanitary Infiltration)								6.0	Say	6.0		KLD
Flow to Sewer (Say)								193.6	Say	193.6		KLD
20% extra as per BREE requirements								192.7	Say	193.6		KLD
Available Treated Water from STP								144.5	Say	144.5		KLD
Available Treated Water After Reused								82.0	Say	82.0		KLD

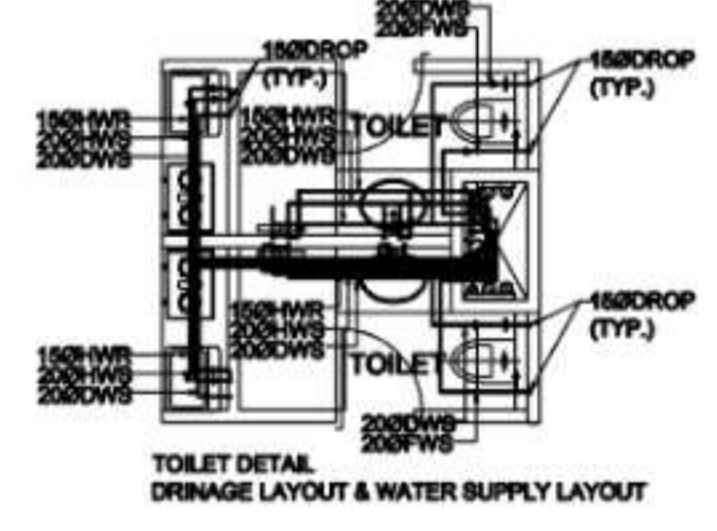
RAIN WATER HARVESTING PIT CALCULATION							
Sl.No.	Description	Area Considered in SQM.	Runoff Coefficient	Average Annual Rainfall (mm)	Total Volume of water available for RWH (cum/year)	Design hourly Intensity of Rainfall (mm/hr.)	Volume Of Rwh Pit Detention Tank Required For 15 Min Capacity
1	SITE AREA	3595		435	900	45.0	46.55
2	ROOF TOP WATER	2299	0.90	435	286	45.0	14.80
3	PAVED SURFACES, ROADS AND OTHER BUILT UP AREAS	1096	0.60	435	286	45.0	14.80
4	LAWNS, GARDEN AND OTHER GREEN SPACES (ASSUMED OF TOTAL AREAS)	200	0.35	435	30	45.0	1.58
TOTAL		3595			1185.51		62.93
Volume of RWH pits required for 15 mins.							63
Assumed depth of water in each recharge pit (m)							3.5
Proposed Dia of Recharge Pits							4.2
Desilting Pit (1.0x1.2x1.5)							1.8
Oil and Grease Trap (1.0x1.2x1.5)							1.8
Volume of proposed each RWH pit							52
No. of recharge pits planned (4.2 M dia With 3.5 M Effective Depth)							1



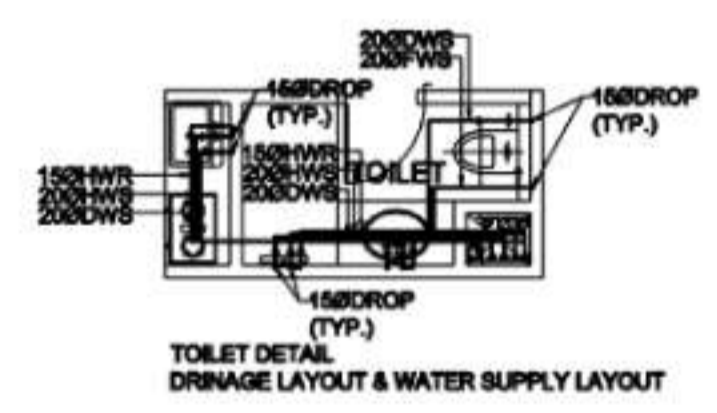
STANDARD DETAIL FOR GREASE TRAP



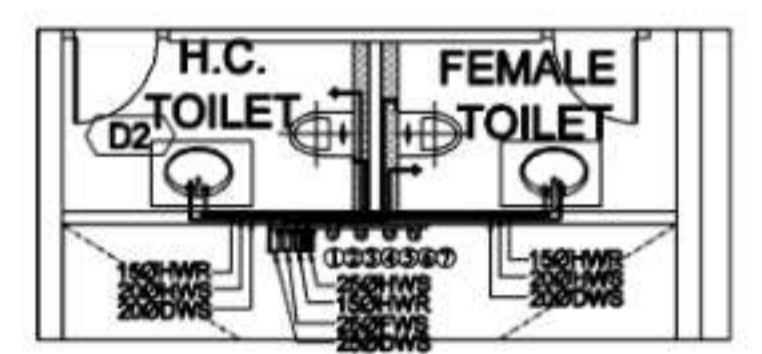
TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



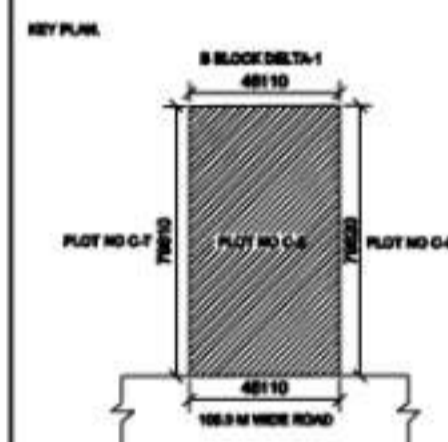
TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



15% SERVICE AREA



SYMBOL	DESCRIPTION
①	150-ØØ R/W PIPE VERTICAL
②	200-ØØ R/W PIPE VERTICAL
③	150-ØØ W/S PIPE VERTICAL
④	150-ØØ W/S PIPE VERTICAL
⑤	DOMESTIC WATER SUPPLY ØØ R/W PIPE
⑥	FLOOR DRAIN
⑦	WATER RETURN ØØ R/W PIPE
⑧	150-ØØ R/W WATER PIPE VERTICAL
⑨	150-ØØ R/W WATER PIPE VERTICAL
⑩	ØØ R/W WATER PIPE VERTICAL
⑪	ØØ R/W WATER PIPE VERTICAL
⑫	ØØ R/W WATER PIPE VERTICAL
⑬	ØØ R/W WATER PIPE VERTICAL
⑭	ØØ R/W WATER PIPE VERTICAL
⑮	ØØ R/W WATER PIPE VERTICAL
⑯	ØØ R/W WATER PIPE VERTICAL
⑰	ØØ R/W WATER PIPE VERTICAL
⑱	ØØ R/W WATER PIPE VERTICAL
⑲	ØØ R/W WATER PIPE VERTICAL
⑳	ØØ R/W WATER PIPE VERTICAL
㉑	ØØ R/W WATER PIPE VERTICAL
㉒	ØØ R/W WATER PIPE VERTICAL
㉓	ØØ R/W WATER PIPE VERTICAL
㉔	ØØ R/W WATER PIPE VERTICAL
㉕	ØØ R/W WATER PIPE VERTICAL
㉖	ØØ R/W WATER PIPE VERTICAL
㉗	ØØ R/W WATER PIPE VERTICAL
㉘	ØØ R/W WATER PIPE VERTICAL
㉙	ØØ R/W WATER PIPE VERTICAL
㉚	ØØ R/W WATER PIPE VERTICAL
㉛	ØØ R/W WATER PIPE VERTICAL
㉜	ØØ R/W WATER PIPE VERTICAL
㉝	ØØ R/W WATER PIPE VERTICAL
㉞	ØØ R/W WATER PIPE VERTICAL
㉟	ØØ R/W WATER PIPE VERTICAL
㊱	ØØ R/W WATER PIPE VERTICAL
㊲	ØØ R/W WATER PIPE VERTICAL
㊳	ØØ R/W WATER PIPE VERTICAL
㊴	ØØ R/W WATER PIPE VERTICAL
㊵	ØØ R/W WATER PIPE VERTICAL
㊶	ØØ R/W WATER PIPE VERTICAL
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㊸	ØØ R/W WATER PIPE VERTICAL
㊹	ØØ R/W WATER PIPE VERTICAL
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㊼	ØØ R/W WATER PIPE VERTICAL
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㊾	ØØ R/W WATER PIPE VERTICAL
㊿	ØØ R/W WATER PIPE VERTICAL

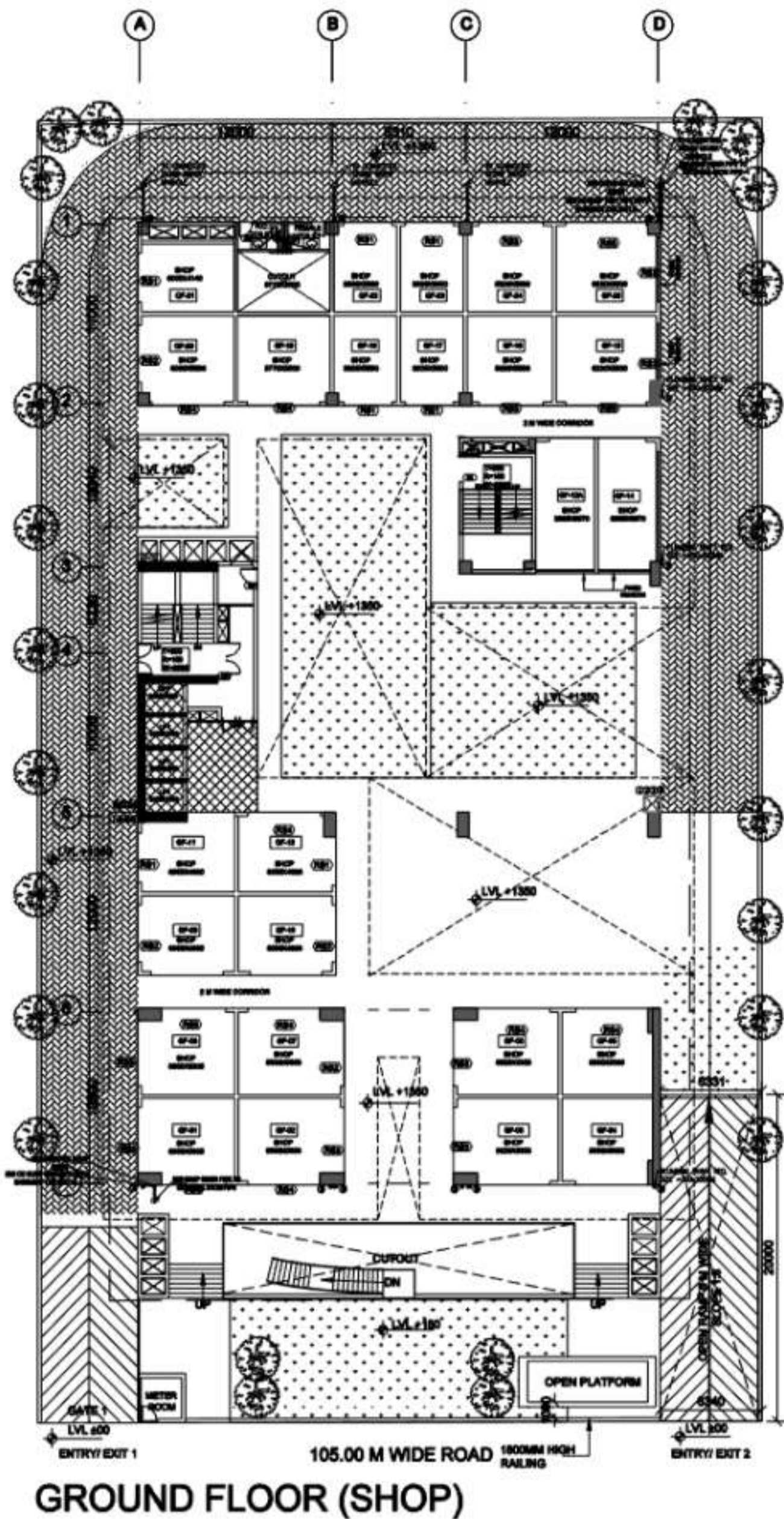
Client: HARENDOR DIGITALY LEVANTE PROJECTS
 KAVI JAIN
 VISHWAK
 ARMA

Project: PROPOSED COMMERCIAL PROJECT "METRO WALK" FOR Mrs LEVANTE PROJECTS Plot No C-08, Sector-Delta-1, G. Huda

PLUMBING SUBMISSION DRAWING

Basement 2 PLAN

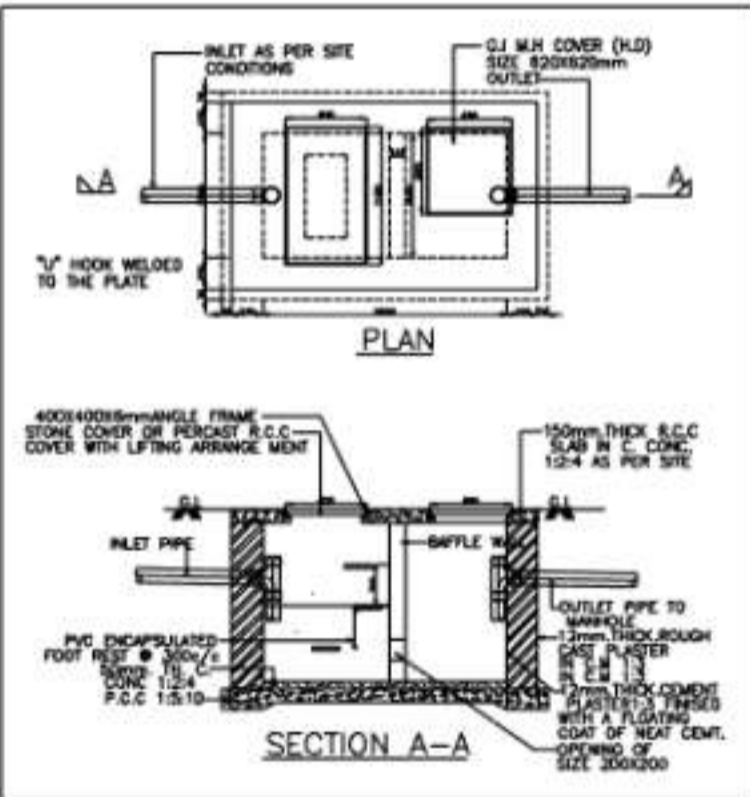
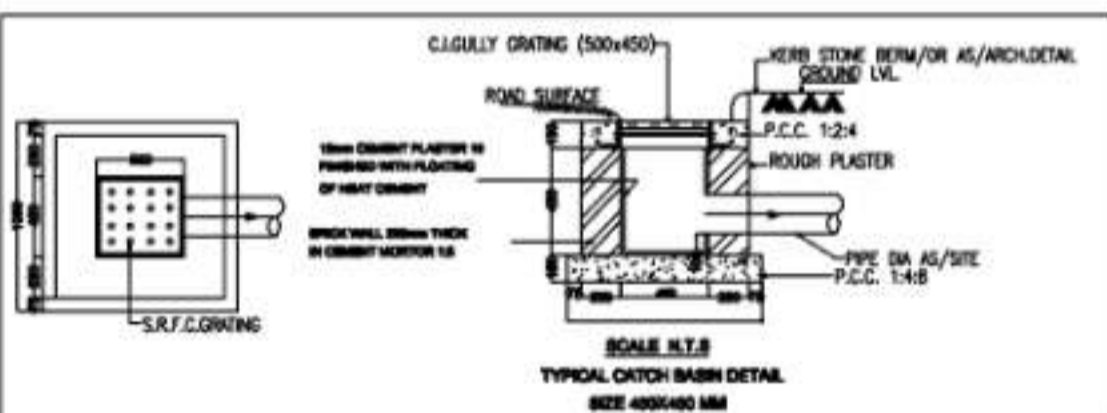
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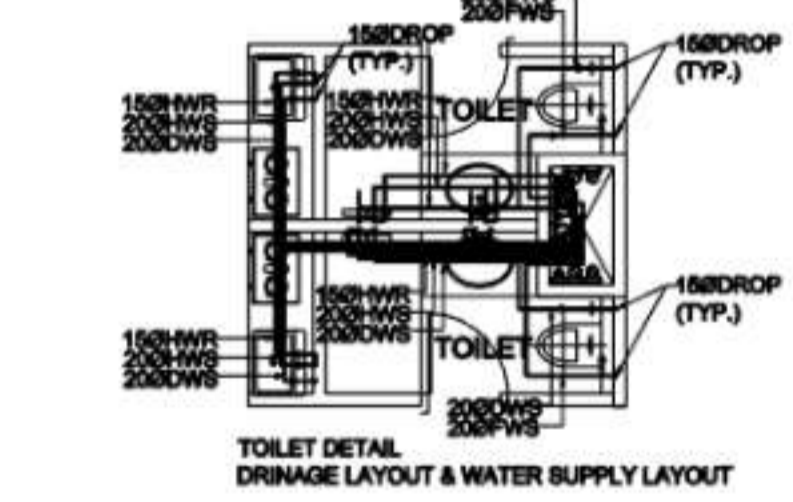
GROUND FLOOR (SHOP)

S. No.	DESCRIPTION	Total Area / Room	Occupant (W/person) / Room per person	Water Req. / Person						Flow to Sewer			
				Total	Non-Potable	Potable	Hot	Cold	Non-Potable	Potable	Hot	Cold	
				LPCD	LPCD	LPCD	LPCD	LPCD	LPCD	LPCD	LPCD	LPCD	LPCD
1	Basement & Ground Floor (Shops & Food Population)	1827	3	61	30	7	10	1,228	437	1,588	1,228	1,296	2,516
2	1st & 2nd floor Shops (Shops & Food Population)	2194	6	361	20	7	18	740	259	680	740	786	1,526
3	3rd floor Office (Fixed Population)	1338	10	140	14	30	7	283	98	252	283	289	576
4	4th & 5th floor Restaurant (Fixed Population)	1831	1.4	1165	15	20	30	17,478	23,902	43,778	17,478	54,464	71,938
5	7th to 10th floor Guest room (Fixed Population)	344	2	208	80	30	30	17,282	8,602	25,920	17,282	25,378	46,658
6	17th floor Club Area (Fixed Population)	321	1.4	228	20	30	17	4,586	1,834	3,588	4,586	4,872	9,458
7	18th floor Top Roof Restaurant (Fixed Population)	335	1.8	186	15	20	30	2,792	3,722	5,514	2,792	5,701	11,432
8	Water Backwash (10% of Total Water)							2175	1811	3482	2175		2175
9	Irrigation Water Requirement	1000						6300					
Total Non-Potable Water Demand (Flushing)								6247	41982	85488	5624	10402	19038
Total Potable Water Demand (Cold Hot)								96.5	5ay	57.8	5ay	57.8	5ay
Total Non-Potable Water Demand (Garden Irrigation)								127.3	5ay	128.6	5ay	128.6	5ay
20% extra as per MSED requirements								6.0	5ay	6.0	5ay	6.0	5ay
Available Treated Water from STP								150.7	5ay	151.0	5ay	151.0	5ay
Available Treated Water After Reuse								144.5	5ay	145.0	5ay	145.0	5ay
								12.8	5ay	12.8	5ay	12.8	5ay

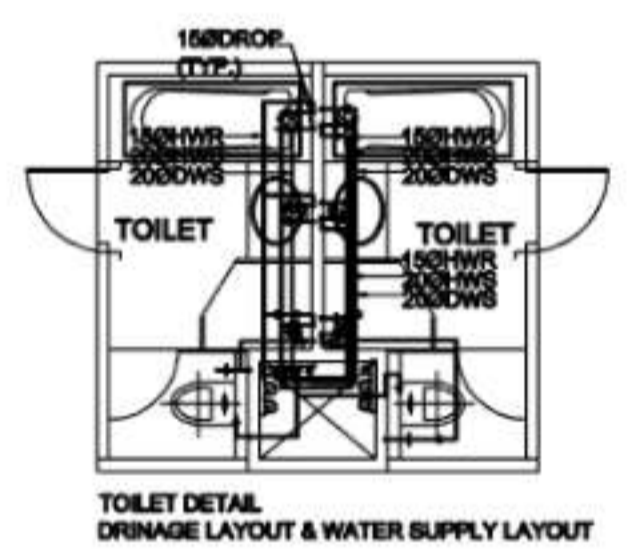
RAIN WATER HARVESTING PIT CALCULATION							
Sl.No.	Description	Area Considered in SQM.	Runoff Coefficient	Average Annual Rainfall (mm)	Total Volume of water available for RWH (cum/year)	Design hourly Intensity of Rainfall (mm/hr.)	Volume Of Rwh Pit Detention Tank Required For 15 Min Capacity
1	SITE AREA	3595					
2	ROOF TOP WATER	2299	0.90	435	900	45.0	46.55
3	PAVED SURFACES, ROADS AND OTHER BUILT UP AREAS	1096	0.60	435	286	45.0	14.80
4	LAWNS, GARDEN AND OTHER GREEN SPACES (ASSUMED OF TOTAL AREAS)	200	0.35	435	30	45.0	1.58
TOTAL		3595			1185.51		62.93
Volume of RWH pits required for 15 mins.							63
Assumed depth of water in each recharge pit (m)							3.5
Proposed Dia of Recharge Pits							4.2
Desilting Pit (1.0x1.2x1.5)							1.8
Oil and Grease Trap (1.0x1.2x1.5)							1.8
Volume of proposed each RWH pit							52
No. of recharge pits planned (4.2 M dia With 3.5 M Effective Depth)							1



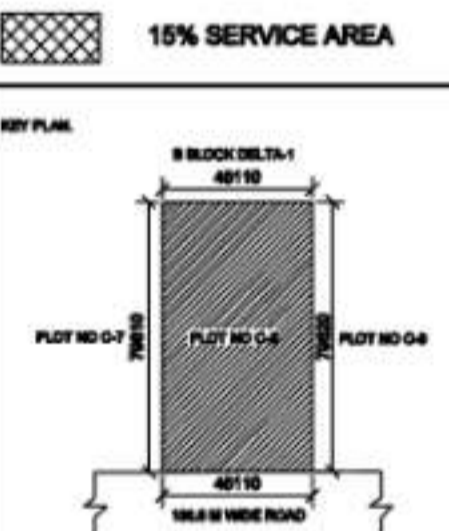
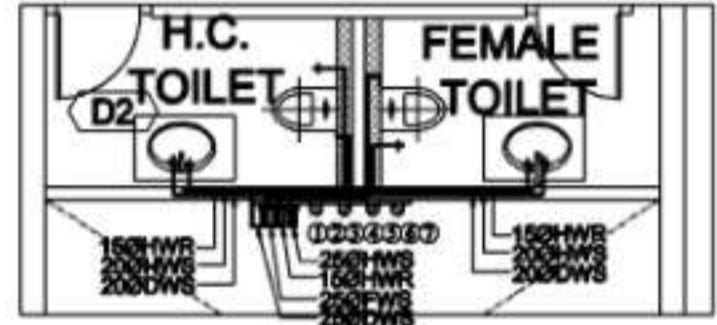
STANDARD DETAIL FOR GREASE TRAP



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



SL. NO.	DESCRIPTION	QUANTITY
1	150mm S.C.C. PIPE VERTICAL	100
2	150mm S.C.C. PIPE HORIZONTAL	100
3	150mm S.C.C. PIPE VERTICAL	100
4	150mm S.C.C. PIPE HORIZONTAL	100
5	150mm S.C.C. PIPE VERTICAL	100
6	150mm S.C.C. PIPE HORIZONTAL	100
7	150mm S.C.C. PIPE VERTICAL	100
8	150mm S.C.C. PIPE HORIZONTAL	100
9	150mm S.C.C. PIPE VERTICAL	100
10	150mm S.C.C. PIPE HORIZONTAL	100
11	150mm S.C.C. PIPE VERTICAL	100
12	150mm S.C.C. PIPE HORIZONTAL	100
13	150mm S.C.C. PIPE VERTICAL	100
14	150mm S.C.C. PIPE HORIZONTAL	100
15	150mm S.C.C. PIPE VERTICAL	100
16	150mm S.C.C. PIPE HORIZONTAL	100
17	150mm S.C.C. PIPE VERTICAL	100
18	150mm S.C.C. PIPE HORIZONTAL	100
19	150mm S.C.C. PIPE VERTICAL	100
20	150mm S.C.C. PIPE HORIZONTAL	100

PROJECT INFORMATION

Client: **M/S. LEVANTE PROJECTS**
 Plot No. C-08, Sector-C&D, G. Road

Project: **"METRO WALK" FOR**

Prepared by: **A. KUMAR, VISHWAK, ARMA**

Checked by: **KAVI JAIN**

Scale: 1:50

Date: 26-11-2023

Sheet No: 45

Project No: 2023-01-02

Drawn by: [Signature]

Checked by: [Signature]

Scale: 1:50

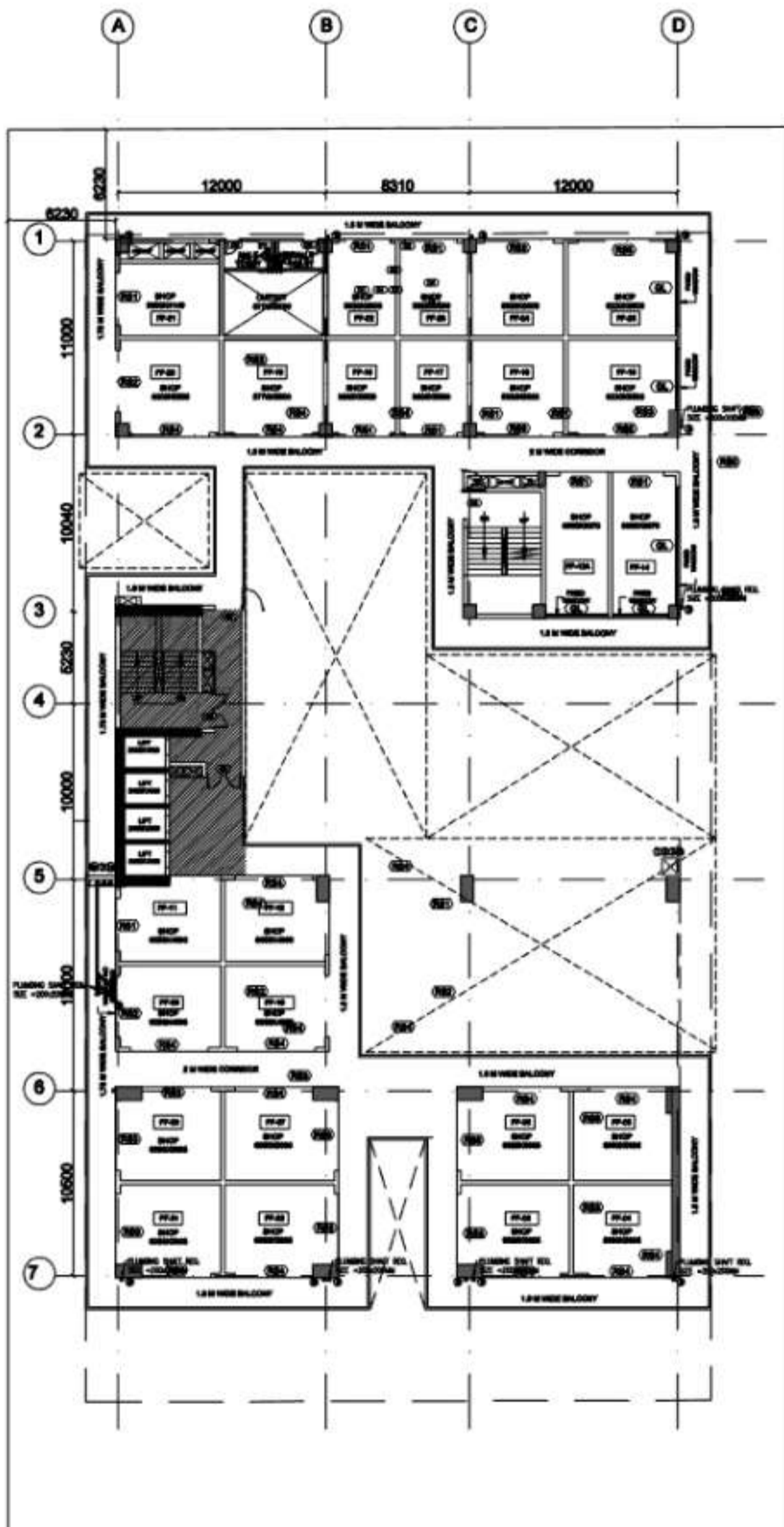
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Project No: 2023-01-02

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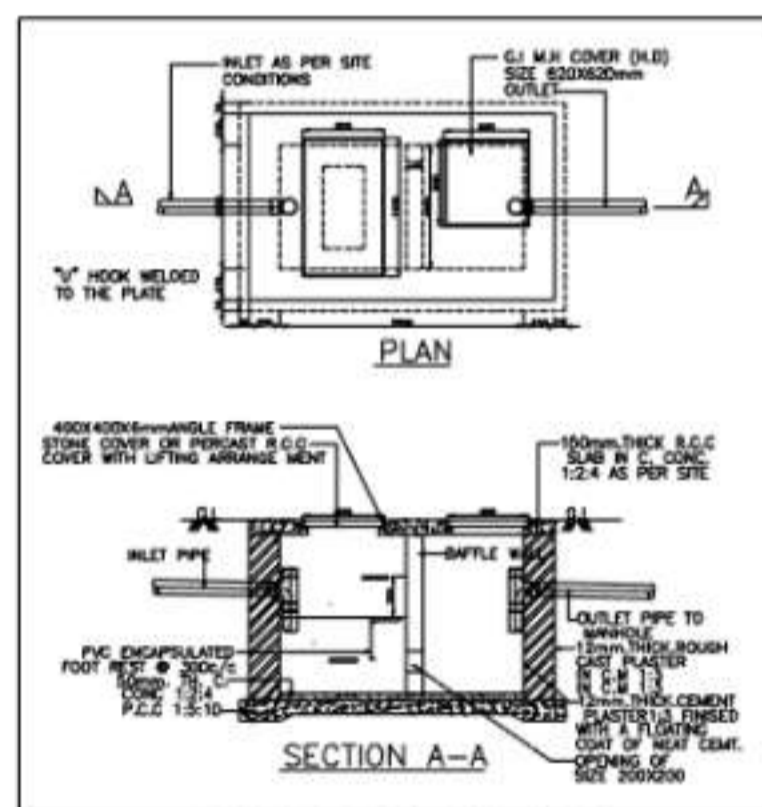
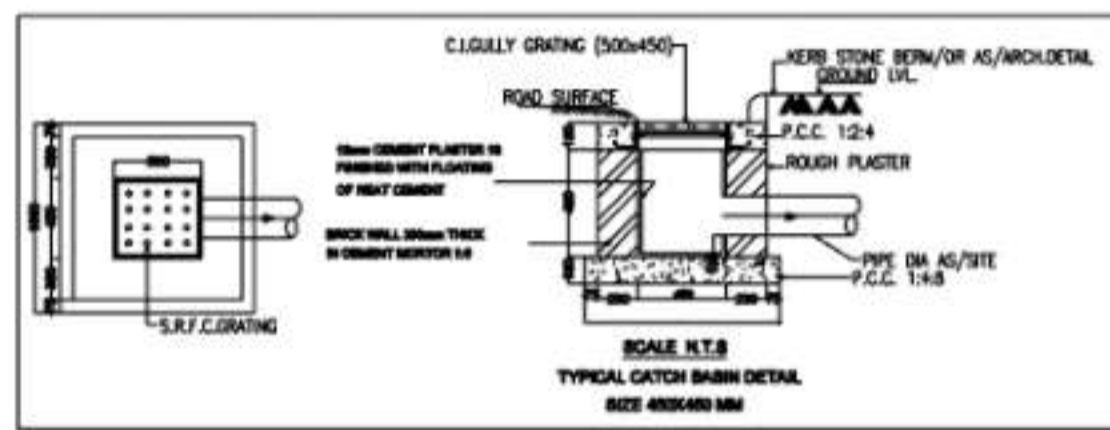
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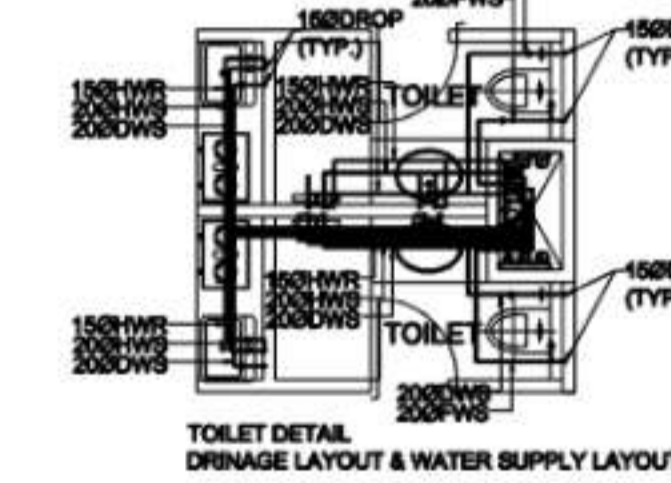
FIRST FLOOR (SHOPS)

S. No.	DESCRIPTION	Total Area (M ²)	Occupant / Room per person	Water Req. / Person						Flow to		
				Total	Non-Potable	Potable	Hot	Cold	Potable	Hot	Cold	100%
				LPD	LPD	LPD	LPD	LPD	LPD	LPD	LPD	LPD
1	Basement & Ground Floor	1027	3	500								
	Shops (Fixed Population)	61	20	7	18	1,230	427	1,098	1,230	1,296	2,596	
	Shops (Floating Population)	548	10	2	3	5,480	1,098	1,647	5,480	2,201	7,681	
2	1st & 2nd floor Shops	2164	6	361								
	Shops (Fixed Population)	17	20	7	18	140	290	698	740	781	1,528	
	Shops (Floating Population)	325	10	2	3	3,250	698	971	3,250	1,381	4,631	
3	3rd floor Office	1388	10	140								
	Fixed Population	14	20	7	18	280	98	250	280	290	578	
	Floating Population	175	10	2	3	1,750	290	378	1,750	538	2,288	
4	4th & 5th floor Restaurant	1031	1.4	1160								
	Fixed Population	184	2	280	60	30	17,280	8,640	25,920	17,280	46,608	
	Floating Population	321	1.4	225	20	5	4,500	1,800	6,750	4,500	11,250	
5	7th to 10th Floor Guest room	184	2	280	60	30	17,280	8,640	25,920	17,280	46,608	
6	11th floor Club Area	321	1.4	225	20	5	4,500	1,800	6,750	4,500	11,250	
7	18th floor Top Roof Restaurant	325	1.4	186	15	20	3,720	1,725	5,514	3,720	11,460	
8	Water Backwash (1% of Total Water)						2175	9811	3285	2175	2175	
9	Impingement Water Requirement						9370					
Total Non-Potable Water Demand (Flushing)							6247	4182	8548	16547	18403	16090
Total Potable Water (Cold+ Hot)												
Total Non-Potable Water Demand (Garden Irrigation)												
Flow To Sewer (Say)												
30% extra as per MOEF requirements												
Available Treated Water from STP												
Available Treated Water After Reused												

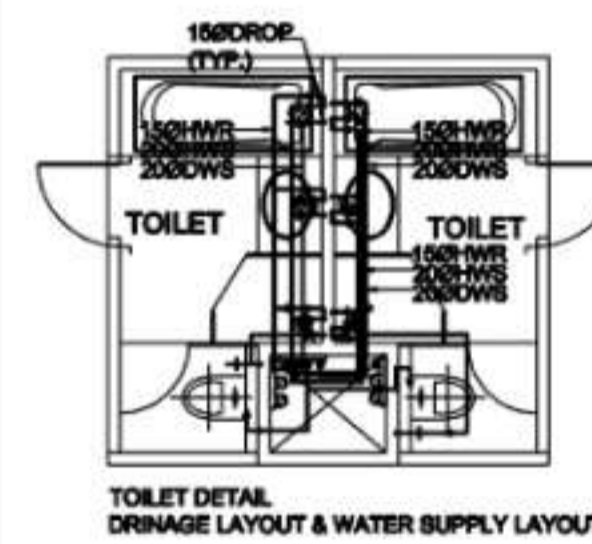
RAIN WATER HARVESTING PIT CALCULATION							
Sl.No.	Description	Area Considered In SQM.	Runoff Coefficient	Average Annual Rainfall (mm)	Total Volume of water available for RWH (cum/year)	Design hourly Intensity of Rainfall (mm/hr.)	Volume Of Rwh Pit Detention Tank Required For 15 Min Capacity
1	SITE AREA	3595					
2	ROOF TOP WATER	2299	0.90	435	900	45.0	46.55
3	PAVED SURFACES, ROADS AND OTHER BUILT UP AREAS	1096	0.60	435	286	45.0	14.80
4	LAWNS, GARDEN AND OTHER GREEN SPACES (ASSUMED OF TOTAL AREAS)	200	0.35	435	30	45.0	1.58
TOTAL		3595			1185.51		62.93
Volume of RWH pits required for 15 mins.							63
Assumed depth of water in each recharge pit (m)							3.5
Proposed Dia of Recharge Pits							4.2
Desilting Pit (1.0x1.2x1.5)							1.8
Oil and Grease Trap (1.0x1.2x1.5)							1.8
Volume of proposed each RWH pit							5.2
No. of recharge pits planned (4.2 M dia With 3.5 M Effective Depth)							1



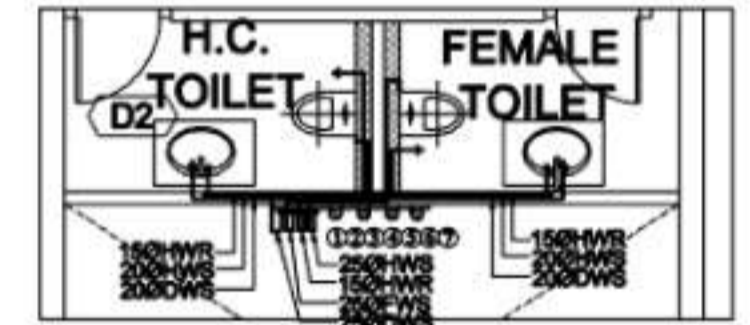
STANDARD DETAIL FOR GREASE TRAP



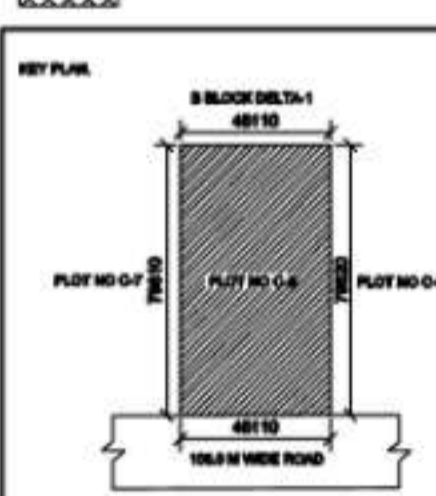
TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



15% SERVICE AREA



SYMBOL	DESCRIPTION
①	150 CO WASTE PIPE VERTICAL (SLOPE 1:8)
②	200 CO WASTE PIPE VERTICAL (SLOPE 1:8)
③	150 CO WASTE PIPE HORIZONTAL (SLOPE 1:8)
④	200 CO WASTE PIPE HORIZONTAL (SLOPE 1:8)
⑤	150 CO WASTE PIPE (SLOPE 1:8)
⑥	200 CO WASTE PIPE (SLOPE 1:8)
⑦	150 CO WASTE PIPE (SLOPE 1:8)
⑧	200 CO WASTE PIPE (SLOPE 1:8)
⑨	150 CO WASTE PIPE (SLOPE 1:8)
⑩	200 CO WASTE PIPE (SLOPE 1:8)
⑪	150 CO WASTE PIPE (SLOPE 1:8)
⑫	200 CO WASTE PIPE (SLOPE 1:8)
⑬	150 CO WASTE PIPE (SLOPE 1:8)
⑭	200 CO WASTE PIPE (SLOPE 1:8)
⑮	150 CO WASTE PIPE (SLOPE 1:8)
⑯	200 CO WASTE PIPE (SLOPE 1:8)
⑰	150 CO WASTE PIPE (SLOPE 1:8)
⑱	200 CO WASTE PIPE (SLOPE 1:8)
⑲	150 CO WASTE PIPE (SLOPE 1:8)
⑳	200 CO WASTE PIPE (SLOPE 1:8)

Client: HARENDRA KUMAR VISHWAKARMA
 Digitally signed by HARENDRA KUMAR VISHWAKARMA
 Date: 2020.01.08 18:39:09 +05:30

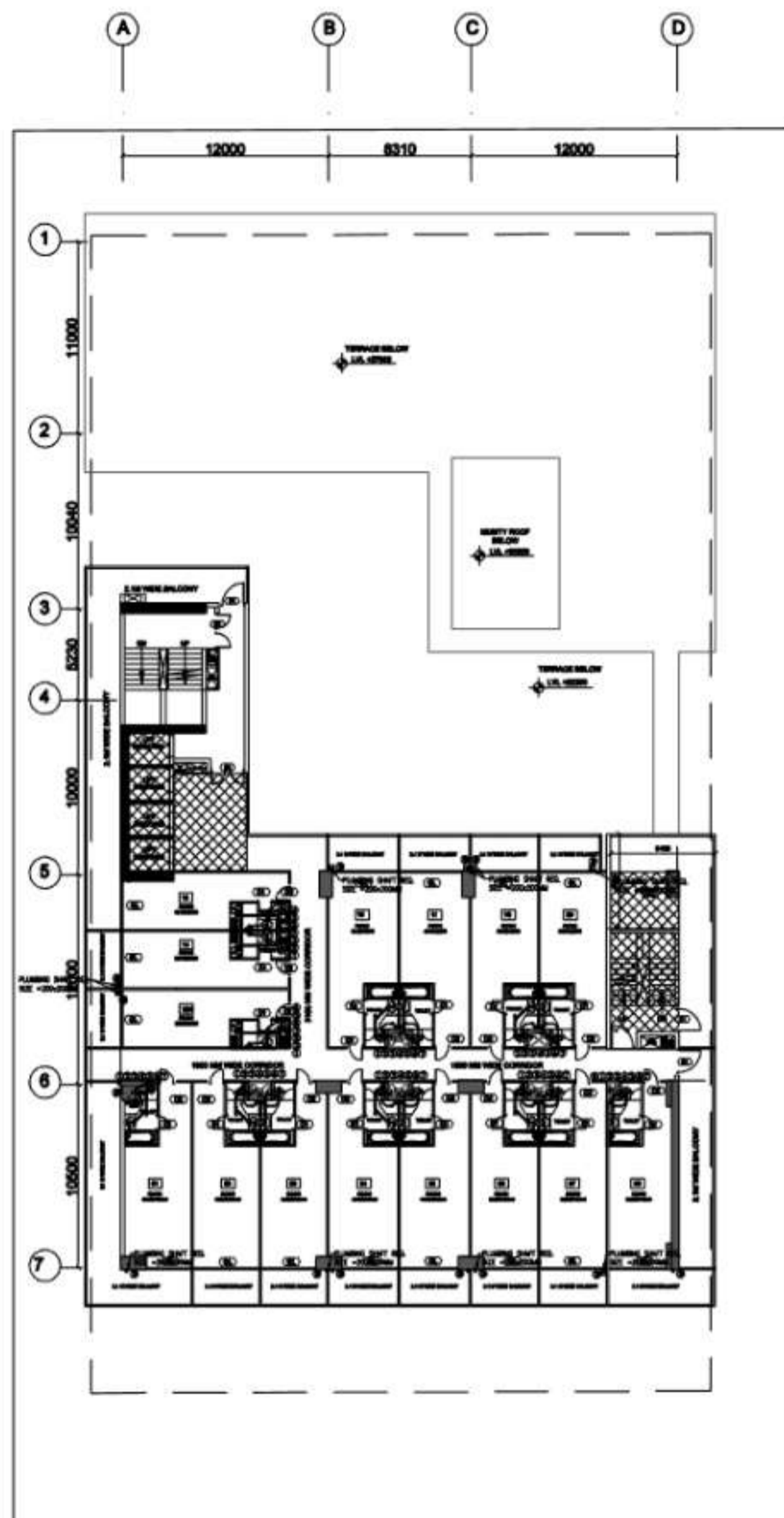
Project: PROPOSED COMMERCIAL PROJECT "METRO WALK" FOR Mrs. LEVANTE PROJECTS Plot No C-04, Sector-DELTA-1, G. Katk.

PLUMBING SUBMISSION DRAWING

1ST FLOOR PLAN

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 Project No: 18/2019/4573

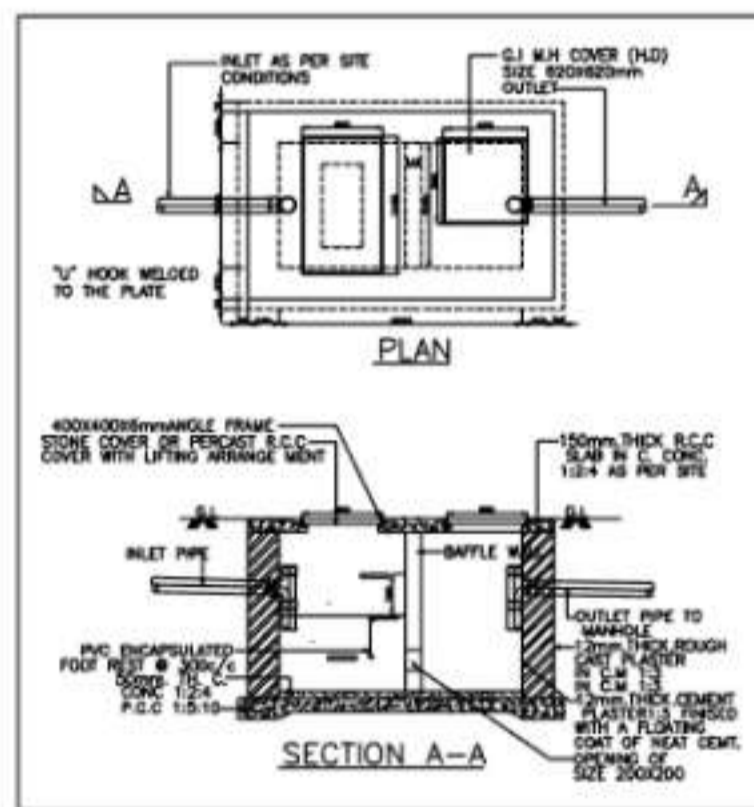
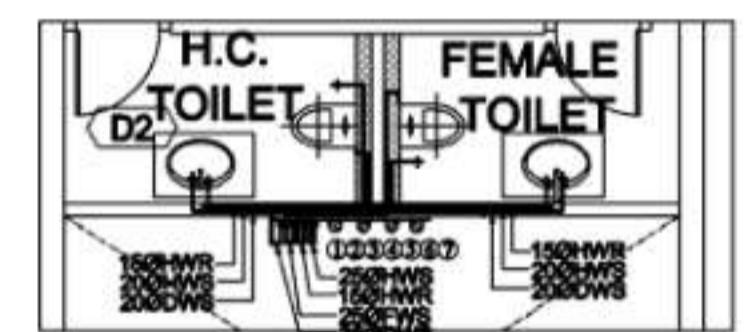
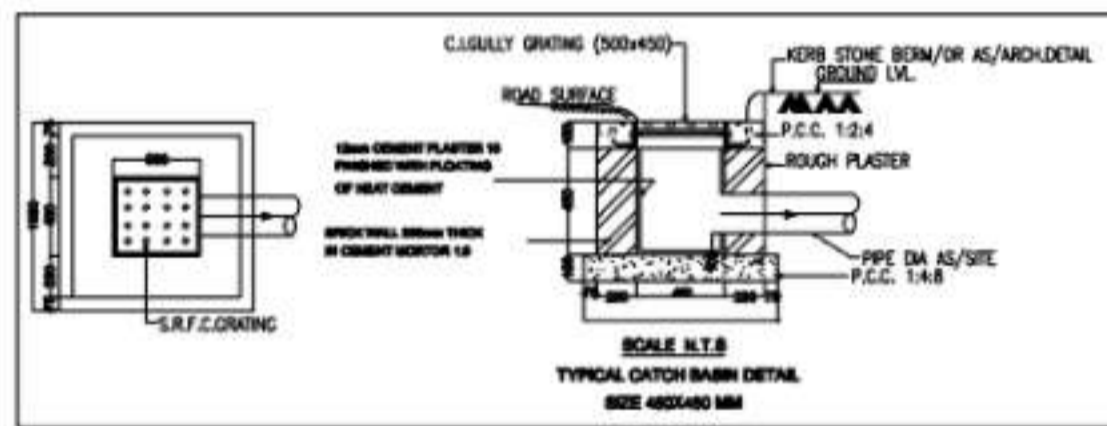
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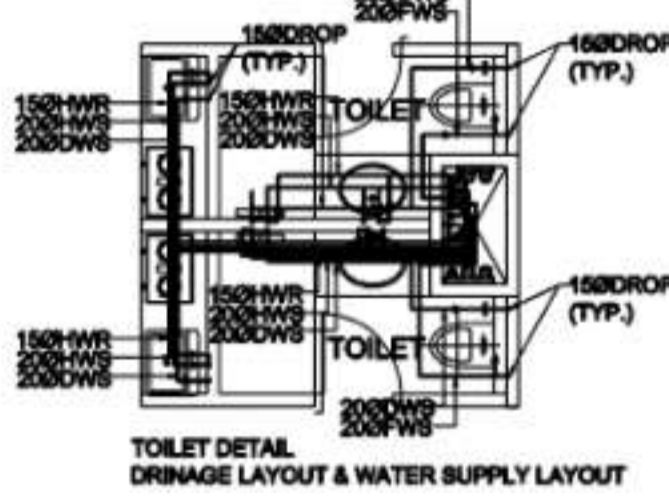
TYPICAL APARTMENT FLOORS
8,11&14

WATER REQUIREMENT CHART													
S. No.	DESCRIPTION	Total Area / Room	Occupant / Rooms per person	Total Dis.	Water Req. / Person			Water Req.		Flow to Sewer			
					Non-Potable LPCD	Potable Hot LPCD	Potable Cold LPCD	Non-Potable LPCD	Potable LPCD	Non-Potable LPCD	Potable LPCD		
1	Basement & Ground Floor Shops (Fixed Population)	1027	3	61	20	7	18	1,220	427	1,798	1,220	1,296	2,516
2	1st & 2nd floor Shops (Fixed Population)	2164	6	361	10	2	3	6,400	1,038	1,647	5,400	2,333	7,833
3	3rd floor Office (Fixed Population)	1388	10	140	20	7	18	2,800	95	282	280	280	578
4	4th & 5th floor Banquet (Fixed Population)	1021	1.4	1158	15	20	35	17,475	23,381	40,775	17,475	54,454	71,839
5	7th to 10th floor Guest room	144	2	288	60	30	90	17,280	8,640	25,920	17,280	25,920	46,460
6	17th floor Club Area	321	1.4	220	20	9	17	4,596	1,834	3,698	4,596	4,872	9,468
7	18th floor Top floor Restaurant	315	1.8	181	15	20	35	2,742	3,722	5,514	2,742	5,261	11,402
8	Filter Backwash (1% of Total Water)	1300		6				2175	1811	3288	2175		2175
9	Impingement Requirement			6				6000					6000
Total Non-Potable Water Demand (Flushing)								62847	41892	85488	16047	16461	16890
Total Potable Water (Cold+ Hot)								1273			128.8		128.8
Total Non-Potable Water Demand (Garden Irrigation)								5.0			5.0		5.0
Flow To Sewer (San)								100.8			100.8		100.8
20% extra as per MCEF requirements								192.7			192.7		192.7
Available Treated Water from STP								144.5			144.5		144.5
Available Treated Water After Reused								82.0			82.0		82.0

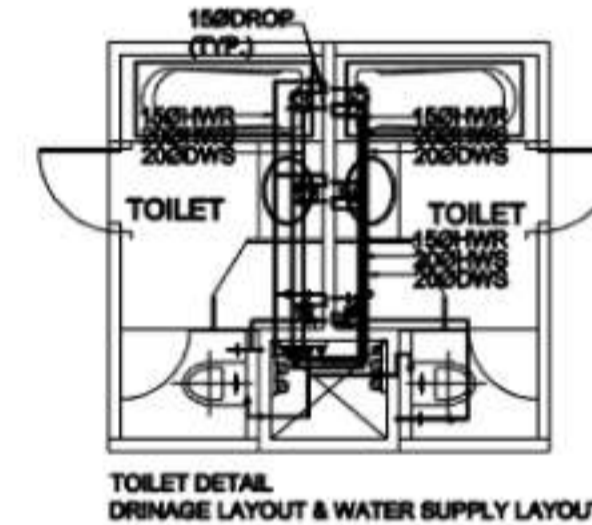
RAIN WATER HARVESTING PIT CALCULATION							
Sl.No.	Description	Area Considered in SQM.	Runoff Coefficient	Average Annual Rainfall (mm)	Total Volume of water available for RWH (cum/year)	Design hourly Intensity of Rainfall (mm/hr.)	Volume Of Rwh Pit Detention Tank Required For 15 Min Capacity
1	SITE AREA	3595					
2	ROOF TOP WATER	2299	0.90	435	900	45.0	46.55
3	PAVED SURFACES, ROADS AND OTHER BUILT UP AREAS	1096	0.60	435	286	45.0	14.80
4	LAWNS, GARDEN AND OTHER GREEN SPACES (ASSUMED OF TOTAL AREAS)	200	0.35	435	30	45.0	1.58
TOTAL		3595			1185.51		62.93
Volume of RWH pits required for 15 mins.							63
Assumed depth of water in each recharge pit (m)							3.5
Proposed Dia of Recharge Pits							4.2
Desilting Pit (1.0x1.2x1.5)							1.8
Oil and Grease Trap (1.0x1.2x1.5)							1.8
Volume of proposed each RWH pit							52
No. of recharge pits planned (4.2 m dia With 3.5 M Effective Depth)							1



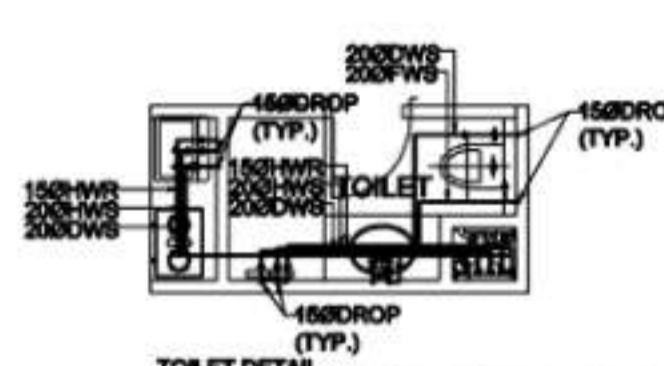
STANDARD DETAIL FOR GREASE TRAP



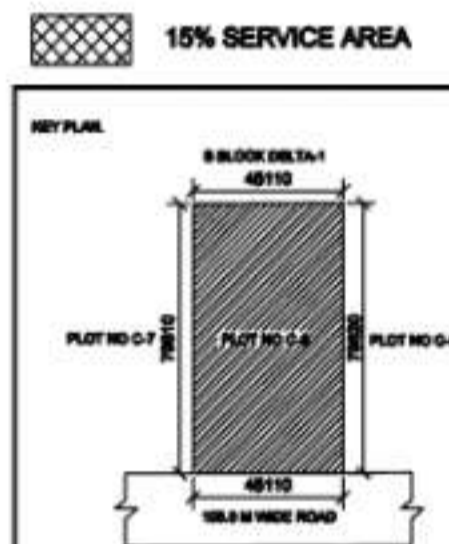
TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



TOILET DETAIL DRAINAGE LAYOUT & WATER SUPPLY LAYOUT



SYMBOL	DESCRIPTION
①	150 CO-BLUE PIPE VERTICAL
②	200 CO-BLUE PIPE VERTICAL
③	150 CO-WHITE PIPE VERTICAL
④	80 CO-BLUE PIPE VERTICAL
⑤	SCHEMATIC WATER SUPPLY OIL STACK PIPE
⑥	SCHEMATIC WATER SUPPLY OIL STACK PIPE
⑦	150 CO-WHITE RETURN STACK PIPE
⑧	80 CO-WHITE WATER PIPE VERTICAL
⑨	150 CO-WHITE WATER PIPE VERTICAL
⑩	200 CO-BLUE WATER PIPE VERTICAL
⑪	FLOOR DRAIN
⑫	FLOOR TRAP
⑬	URINAL TRAP
⑭	QUICKSET FLOOR
⑮	CUTICLE WEIR
⑯	150 CO-BLUE PIPE H/C TO VERTICAL
⑰	150 CO-WHITE PIPE H/C TO VERTICAL
⑱	80 CO-WHITE PIPE H/C TO VERTICAL
⑲	150 CO-WHITE PIPE H/C TO VERTICAL
⑳	150 CO-BLUE PIPE (H/M TO U/S)
㉑	150 CO-BLUE PIPE (H/M TO U/S)

Client: FOREND
RA KUMAR
VISHWA KABMA

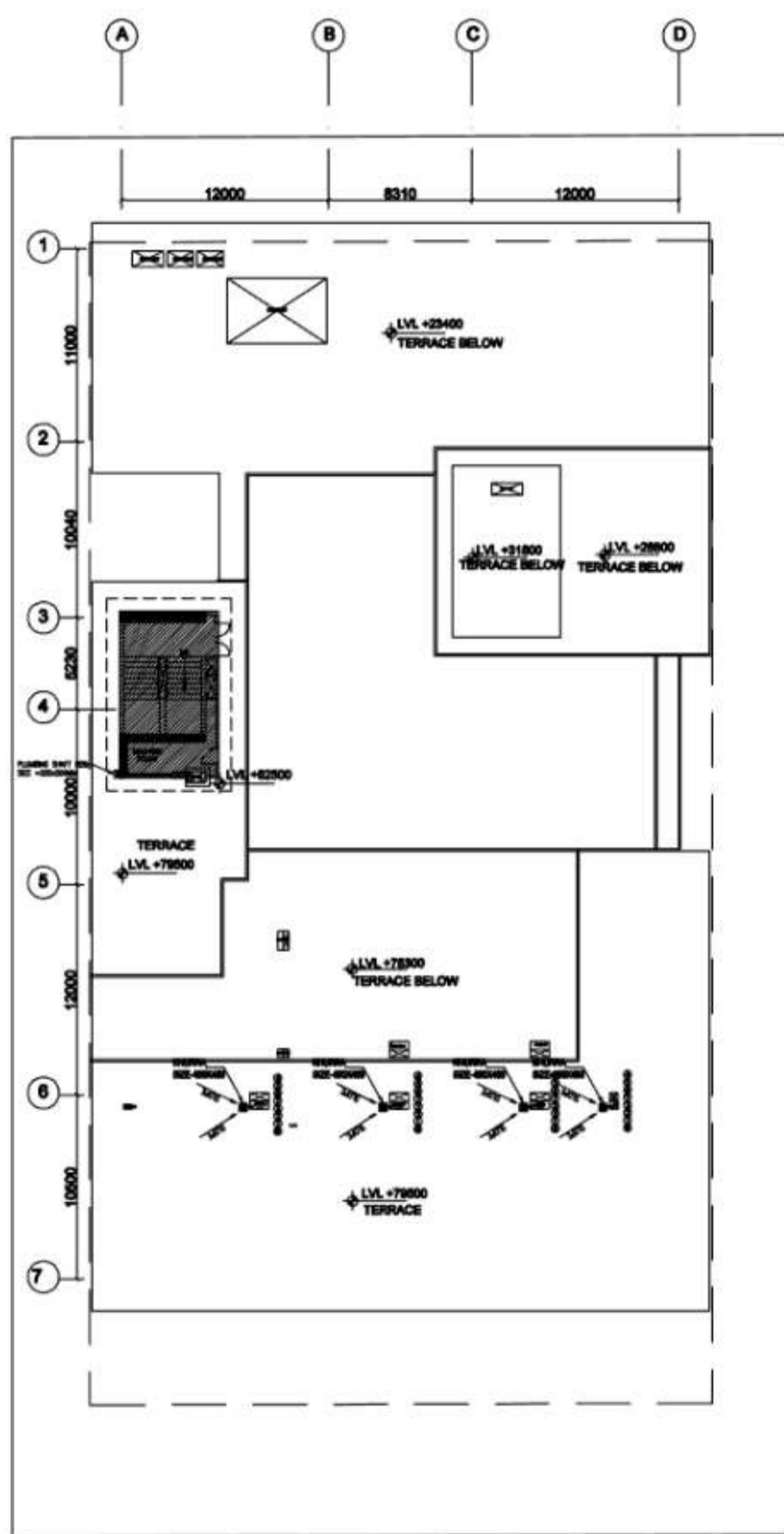
Project: PROPOSED COMMERCIAL PROJECT "METRO WALK" FOR M/s LEVANTE PROJECTS Plot No G-08, Sector-GEL-TN-1, G. Huda

Project: TYPICAL APARTMENT FLOOR PLAN

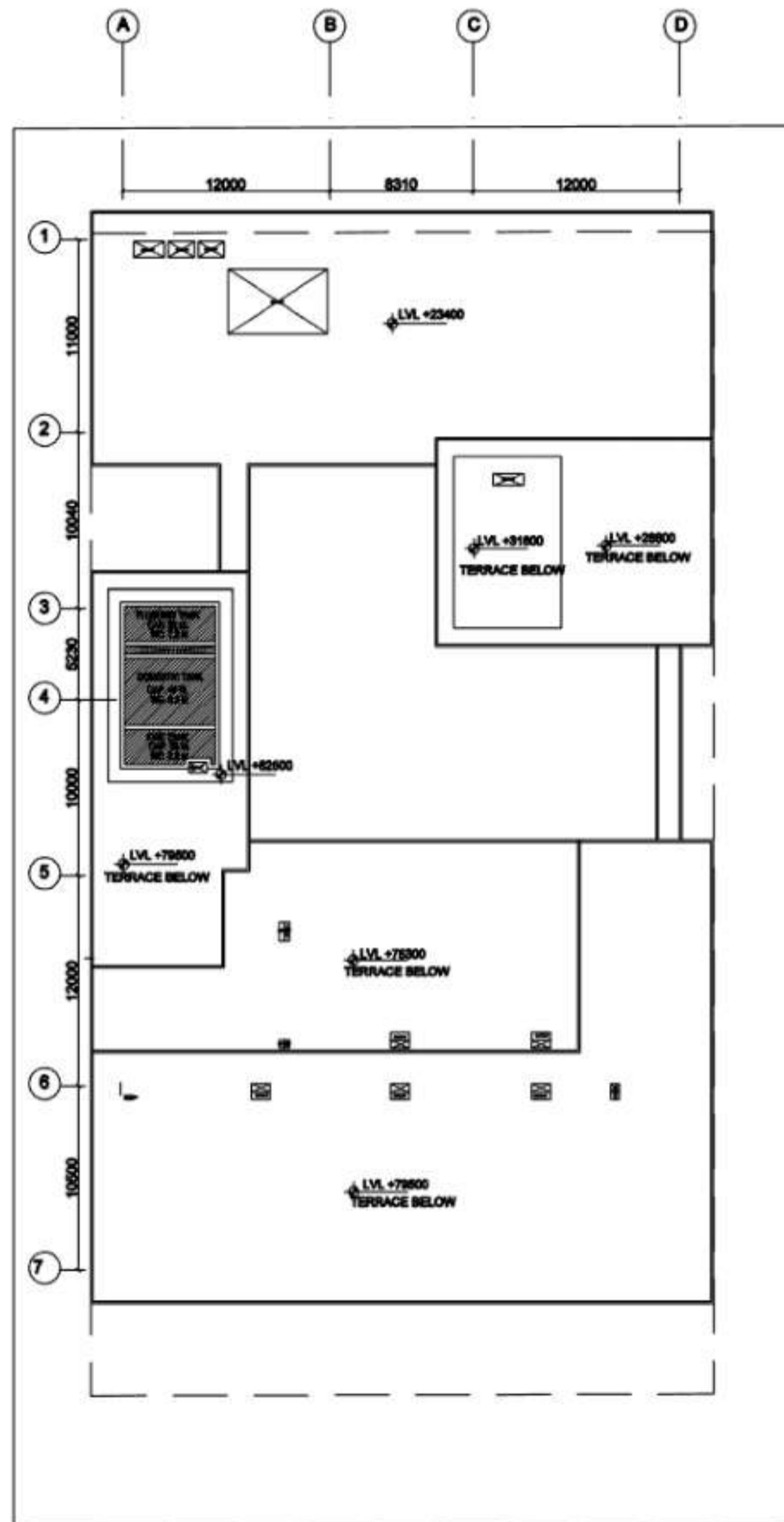
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Sheet No: 08/14

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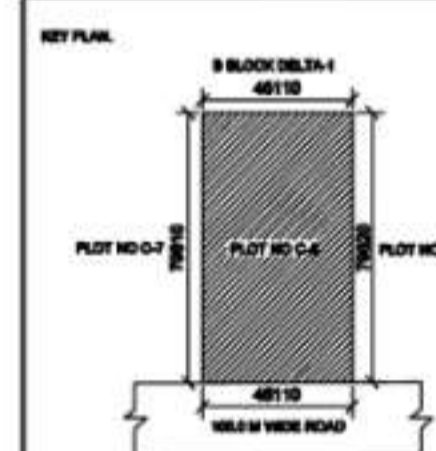


TERRACE PLAN AT MUMTY LVL



TERRACE PLAN AT OVERHEAD TANK LVL

15% SERVICE AREA



Client Sign: HARENDR A KUMAR VISHWAK ARMA
 Digitally signed by HARENDR A KUMAR VISHWAK ARMA
 Date: 2024.01.22 10:40:00+05:30
 Author Sign: KAVI JAIN

NIRMAN CONSULTANTS
 Civil project management, architecture, planning, interior

Project: PROPOSED COMMERCIAL PROJECT "METRO WALK" from M/s LEVANTE PROJECTS Plot No C-04, Sector-CELTIA-1, G. Huda

Type: Drawing

PLUMBING SUBMISSION DRAWING

Title: TERRACE & MUMTY TERRACE PLAN

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Scale		Checked by	
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