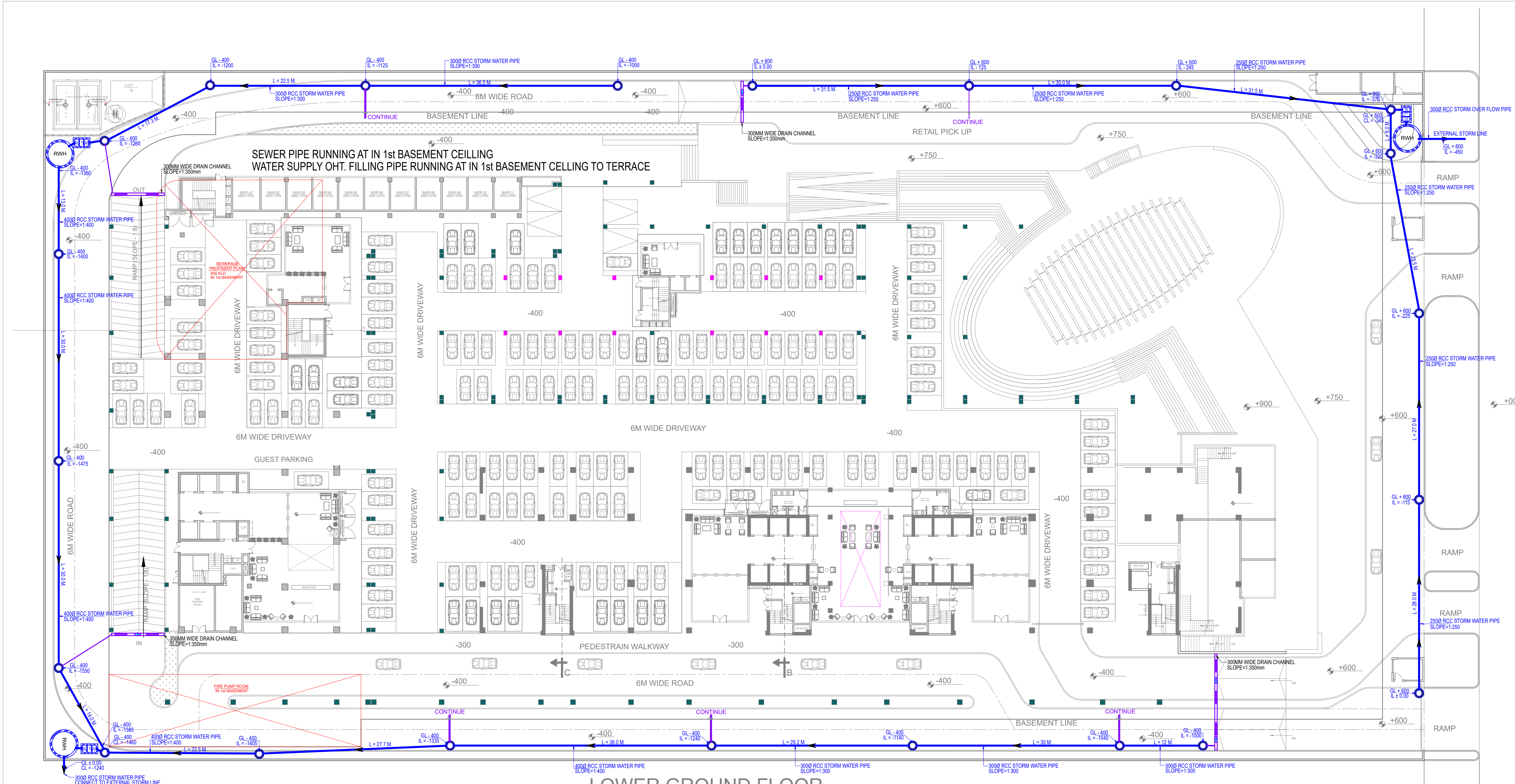




GYGY MENTIS AT SECTOR-140, NOIDA									
S.No.	Description	Area In Sqm	Total Population	Water Requirement Per Person Lpcd	Flushing Water Lpcd	Domestic Water Lpcd	Total Water LPD		
1	Lower Ground Floor - Floating population (3 Sqm Per Person)	210	70	15	10	700	5	350	1050
	Basement - Fixed Population (10 Sqm Per Person)		21	45	20	420	25	525	945
2	Upper Ground Floor - Floating population (3 Sqm Per Person)	5136	1712	15	10	17120	5	8560	25680
	Ground Floor - Fixed Population (10 Sqm Per Person)		514	45	20	10272	25	12840	23112
3	1st Floor - Fixed Population (10 Sqm Per Person)	4900	490	45	20	9800	25	12250	22050
	1st Floor - Floating Population (3 Sqm Per Person of the retail area - 800 sqm + 10% of the fixed population)	800	316	15	10	3157	5	1578	4735
4	2nd Floor - Fixed Population (10 Sqm Per Person)	4090	409	45	20	8180	25	10225	18405
	2nd Floor - Floating Population (10 % of Total Population)	41	45	10	409	5	205	614	
5	3rd Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	3rd Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
6	4th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	4th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
7	5th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	5th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
8	6th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	6th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
9	7th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	7th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
10	8th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	8th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
11	9th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	9th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
12	10th Floor - Fixed Population (10 Sqm Per Person)	3820	382	45	20	7640	25	9550	17190
	10th Floor - Floating Population (10 % of Total Population)	38	45	10	382	5	191	573	
13	11th Floor - Fixed Population (10 Sqm Per Person)	3352	335.2	45	20	6704	25	8380	15084
	11th Floor - Floating Population (10 % of Total Population)	34	45	10	335	5	168	503	
14	12th Floor - Fixed Population (10 Sqm Per Person)	3352	335.2	45	20	6704	25	8380	15084
	12th Floor - Floating Population (10 % of Total Population)	34	45	10	335	5	168	503	
15	13th Floor - Fixed Population (10 Sqm Per Person)	3352	335.2	45	20	6704	25	8380	15084
	13th Floor - Floating Population (10 % of Total Population)	34	45	10	335	5	168	503	
16	14th Floor - Fixed Population (10 Sqm Per Person)	3352	335.2	45	20	6704	25	8380	15084
	14th Floor - Floating Population (10 % of Total Population)	34	45	10	335	5	168	503	
17	15th Floor - Fixed Population (10 Sqm Per Person)	2852	285.2	45	20	5704	25	7130	12834
	15th Floor - Floating Population (10 % of Total Population)	29	45	10	285	5	143	428	
18	16th Floor - Fixed Population (10 Sqm Per Person)	2464	246.4	45	20	4928	25	6160	11088
	16th Floor - Floating Population (10 % of Total Population)	25	45	10	246	5	123	370	
19	17th Floor - Fixed Population (10 Sqm Per Person)	2464	246.4	45	20	4928	25	6160	11088
	17th Floor - Floating Population (10 % of Total Population)	25	45	10	246	5	123	370	
20	18th Floor - Fixed Population (10 Sqm Per Person)	2464	246.4	45	20	4928	25	6160	11088
	18th Floor - Floating Population (10 % of Total Population)	25	45	10	246	5	123	370	
21	19th Floor - Fixed Population (10 Sqm Per Person)	2042	204.2	45	20	4084	25	5105	9189
	19th Floor - Floating Population (10 % of Total Population)	20	45	10	204	5	102	306	

LOWER GROUND FLOOR									
22	20th Floor - Fixed Population (10 Sqm Per Person)	2166	216.6	45	20	4332	25	5415	9747
	20th Floor - Floating Population (10 % of Total Population)	22	45	10	217	5	108	325	
23	21th Floor - Fixed Population (10 Sqm Per Person)	1232	123.2	45	20	2464	25	3080	5544
	21th Floor - Floating Population (10 % of Total Population)	12	45	10	123	5	62	185	
24	22th Floor - Fixed Population (10 Sqm Per Person)	1232	123.2	45	20	2464	25	3080	5544
	22th Floor - Floating Population (10 % of Total Population)	12	45	10	123	5	62	185	
25	23th Floor - Fixed Population (10 Sqm Per Person)	810	81	45	20	1620	25	2025	3645
	23th Floor - Floating Population (10 % of Total Population)	8	45	10	81	5	41	122	
26	24th Floor - Fixed Population (10 Sqm Per Person)	530	53	45	20	1060	25	1325	2385
	24th Floor - Floating Population (10 % of Total Population)	5	45	10	53	5	27	80	
27	Maintenance Staff	LS	150	45	20	3000	25	3750	6750
TOTAL WATER REQUIREMENT						183728	208954	392882	

Horticulture Area (6-8 L Per Sqm)		Area (In Sqm)	Water requirement per sq. m.	Total water Required (in lit.)
Storage required		7600	6	45600
Under Ground Water Storage Tanks				
Total Domestic water requirement		208954	LPD	
Say		200000	LPD	
Total Flushing water requirement		183728	LPD	
Say		180000	LPD	
Total Soft water requirement (HVAC)		480000	LPD	
Say		480000	LPD	
Therefore				
The total Water storage shall be divided as				
Raw Water Storage Tank		100000	LPD	
Domestic Water Storage Tank		100000	LPD	
Flushing Water Storage Tank with part of irrigation water requirement		217000	LPD	
Soft water Storage for hvac and electrical		337000	LPD	

STP Capacity & Water Balancing		Domestic Waste Water to STP @ 80%	160000
Flushing Waste Water to STP @ 100%		180000	LPD
Total Waste water to STP (20 % Extra As Per Moet)		340000	LPD
Grand Total		408000	LPD
Therefore the capacity of STP shall be		400000	LPD
STP YIELD @ 90%		360000	LPD
TOTAL water used from STP			
1. Flushing water		180000	LPD
2. Horticulture Area water requirement		37000	LPD
3. for HVAC		143000	LPD
Total		360000	LPD
Total water to municipal line		0	LPD

LEGENDS	
SYMBOL	DESCRIPTION
GL	GROUND LEVEL
IL	INVERT LEVEL
MH	STORM MANHOLE
—	STORM WATER LINE
—	IRRIGATION LINE
GH	GARDEN HYDRANT

CLIENT
GYGY INFRADESIGN PVT. LTD.

PROJECT
GYGY MENTIS AT PLOT NO-2,
SECTOR 140 NOIDA

PRINCIPAL ARCHITECT
**DESIGN FORUM
INTERNATIONAL**

K-47, KAILASH COLONY, NEW DELHI-110048
PHONE NO. : 011-46556600

MEP CONSULTANT:
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DRAWING TITLE:

PLUMBING LAYOUT

DATE	25-04-2023	NORTH :
SCALE	A1@ 1:300	
DRAWN	PK	
CHKD BY	S.K	
DWG. NO.		