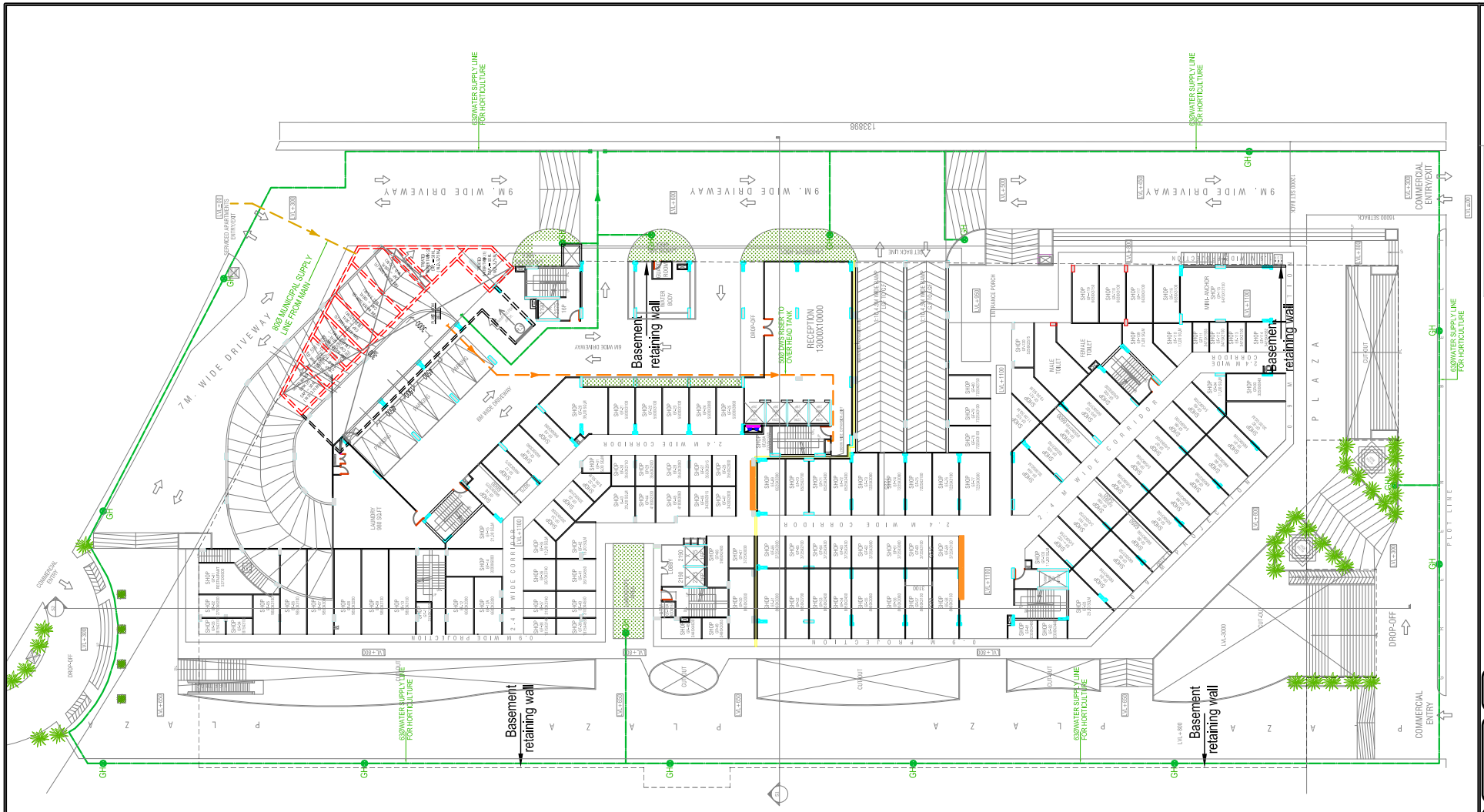

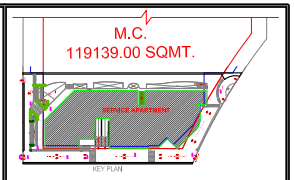

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		MUNICIPAL WATER SUPPLY PIPE LINE.
2.		RECYCLED WATER SUPPLY LINE FOR FLUSHING & HORTICULTURE
3.		GARDEN HYDRANT
4.		MASONRY CHAMBER FOR ISOLATING VALVE

PROJECT -GYC SERVICE APARTMENT AT GREATER NOIDA
WATER REQUIREMENT CALCULATIONS

S.No.	Description	Built up Area	Horticulture Water Requirment	No. of Units / Shops	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)	Flow to Sewer		
		(Sq.M)	per Sq.M Area				LPCD	LPD	LPCD	LPD	LPD	Domestic 80%	Flushing 100%	LPD
1	Lower Ground Floor (Shopping)	1200		75	3 SqM/person	400								
1	Ground Floor (Shopping)	2200		122	3 SqM/person	740								
2	Podium Floor (Shopping)	1420		76	6 SqM/person	240								
3	Permanent Population (Shopping)				@ 20% of total population	280	25	7000	20	5600	12600	5600	5600	11200
4	Transient Polulation (Shopping)				@ 80% of total population	1100	5	5500	10	11000	16500	4400	11000	15400
5	Kitchen (Club)	L.S						5000			5000	4000	0	4000
6	Service Apartments			828	2	1656	90	149040	45	74520	223560	119232	74520	193752
7	Party Hall					100	5	500	10	1000	1500	400	1000	1400
8	Club					300	45	13500	0	0	13500	10800	0	10800
9	Boating Population					200	5	1000	10	2000	3000	800	2000	2800
10	Staff					100	25	2500	20	2000	4500	2000	2000	4000
11	Filter Backwash							5000			5000		5000	5000
12	Makeup Water for Swimming Pool							5000			5000			
13	Horticulture	3000	6							18000	18000			
14	AC Make-up water									50000	50000			
	Total							194,040		164,120	358,160	147,232	101,120	248,352

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

S.No.	Description	Water Requirement (KLD)
1	Domestic Fresh Water Requirement	194
2	Recycle Water Requirement	164
3	Flow to Sewer	248
	Flow to Inhouse STP	**250**
	UGT Capacity	
	For Domestic Use (24 hrs storage)	200 KL
	For Fire Fighting (as per NBC)	200 KL
	Total UGT Capacity	**400 KL**

Drg. No. SER-04

Client :-
GAURSONS REALTECH PRIVATE LIMITED
Gaur Biz Park Plot No.-1, Abhay Khand - II,
Indirapuram, Ghaziabad

Project :-
PROJECT MASTER PLAN COMMERCIAL AT PLOT NO.- MC, GAUR YAMUNA CITY, (POCKET-3), MIRZAPUR SITE (LFD-3), SECTOR-19, YEIDA, GREATER NOIDA, U.P

SERVICE APARTMENT

title
PLUMBING DRAWING

subtitle
SITE PLAN (WATER SUPPLY SYSTEM)

drawing released for
- ☐ APPROVAL
- ■ SUBMISSION
- ☐ ADVANCE COPY
- ☐ CONSTRUCTION

drg. no. GYC/S.A./SITE/PL-01	drawn by Joshi
scale 1:250@A1	designed by Shakir Shabbir
date 21.09.2018	checked by Anand Havelia

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