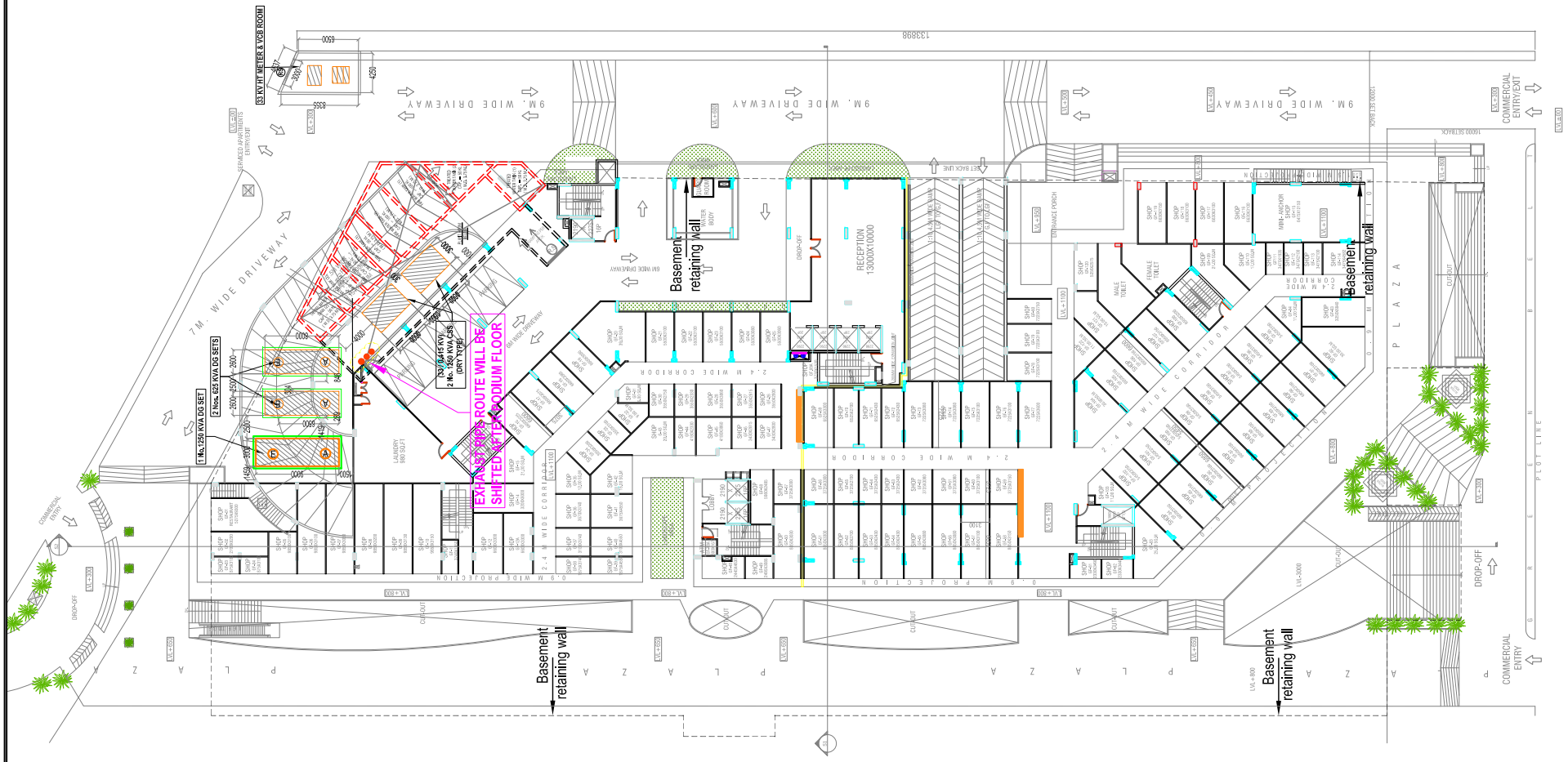

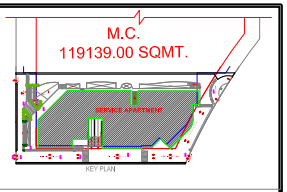

Electrical load Calculation - "SERVICE APARTMENT AT GYC"

S.no	Description		No. of unit		Load per Unit			Total Load	
	Service Appt (LG+P1+P2+P3+13)		No. of Towe r		=	1	nos.		
1	1BHK 27 sq M @ 50 W/sqM = 1.35 KW) Assumed min load 3.00 KW)		828	units	@	3.00	KW	=	2484 KW
	COMMON SERVICES - TOWERS								
	Service Appt (LG+P1+P2+P3+13)		No. of Towe r		=	1	nos.		
2	Elevators (20 Passenger) 1.5 mps		4	nos	@	17	KW	=	68 KW
3	Elevators (16 Passenger) 1.5 mps		2	nos	@	15	KW	=	30 KW
4	Elevators (16 Passenger) 1.0 mps		2	nos	@	9	KW	=	18 KW
5	Common Lights		1	towers	@	5	KW	=	5 KW
	COMMON SERVICES - General								
6	Club / Swimming Pool							=	81 KW
7	Commercial							=	225 KW
8	Tube wells/Water Supply Pumps							=	50 KW
9	STP							=	50 KW
10	External / Gate / Landscape lighting		1	set	@	10	KW	=	10 KW
11	Podium Lighting	13787		sqm	@	0.7	W/sqm	=	10 KW
12	Ventilation	5278		sqm	@	7.0	W/sqm	=	37 KW
13	Fire pumps (only jockey pumps have been considered)		1	set	@	15	KW	=	15 KW
							Total Load =	3633	KW
							By taking Diversity factor 50% =	1816	KW
							By taking Power factor 0.80 =	2020	KVA
							Total Load =	2020	KVA
	Recommended Transformers (at 85% loading) = 2 nos 1250 KVA each.								
	DG set Calculation								
							Total Load =	1816	KW
							By taking Power factor 0.80 =	2270	KVA
							Total Essential Electrical Load =	2270	KVA
	Recommended DG sets (at 90% loading) = 1 nos 1250 KVA & 2 nos 630 KVA								

Drg. No. SER-06

Client :-
GAURSONS REALTECH PRIVATE LIMITED
Gaur Biz Park Plot No.-1, Abhay Khand - II,
Indrapuram, 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: ELECTRICAL DRAWING

subtitle: SITE PLAN (ELECTRICAL SYSTEM)

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

drg. no. GYC/S.A./SITE/PL-01	drawn by Joshi
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