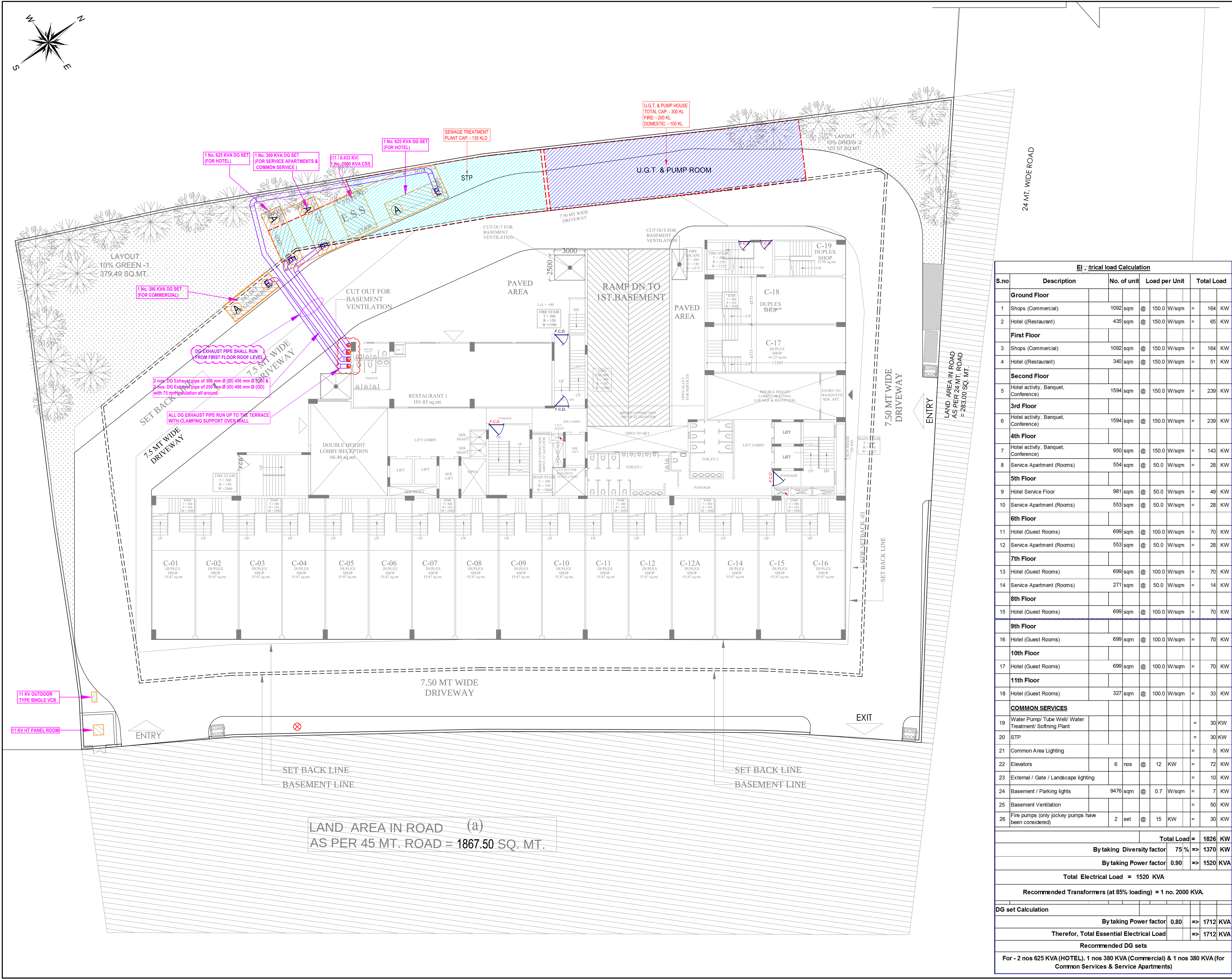




Electrical load Calculation				
S.no	Description	No. of unit	Load per Unit	Total Load
Ground Floor				
1	Shops (Commercial)	1092 sqm	@ 150.0 W/sqm	= 164 KW
2	Hotel (Restaurant)	435 sqm	@ 150.0 W/sqm	= 65 KW
First Floor				
3	Shops (Commercial)	1092 sqm	@ 150.0 W/sqm	= 164 KW
4	Hotel (Restaurant)	340 sqm	@ 150.0 W/sqm	= 51 KW
Second Floor				
5	Hotel activity, Banquet, Conference)	1594 sqm	@ 150.0 W/sqm	= 239 KW
3rd Floor				
6	Hotel activity, Banquet, Conference)	1594 sqm	@ 150.0 W/sqm	= 239 KW
4th Floor				
7	Hotel activity, Banquet, Conference)	950 sqm	@ 150.0 W/sqm	= 143 KW
8	Service Apartment (Rooms)	554 sqm	@ 50.0 W/sqm	= 28 KW
5th Floor				
9	Hotel Service Floor	981 sqm	@ 50.0 W/sqm	= 49 KW
10	Service Apartment (Rooms)	553 sqm	@ 50.0 W/sqm	= 28 KW
6th Floor				
11	Hotel (Guest Rooms)	699 sqm	@ 100.0 W/sqm	= 70 KW
12	Service Apartment (Rooms)	553 sqm	@ 50.0 W/sqm	= 28 KW
7th Floor				
13	Hotel (Guest Rooms)	699 sqm	@ 100.0 W/sqm	= 70 KW
14	Service Apartment (Rooms)	271 sqm	@ 50.0 W/sqm	= 14 KW
8th Floor				
15	Hotel (Guest Rooms)	699 sqm	@ 100.0 W/sqm	= 70 KW
9th Floor				
16	Hotel (Guest Rooms)	699 sqm	@ 100.0 W/sqm	= 70 KW
10th Floor				
17	Hotel (Guest Rooms)	699 sqm	@ 100.0 W/sqm	= 70 KW
11th Floor				
18	Hotel (Guest Rooms)	327 sqm	@ 100.0 W/sqm	= 33 KW
COMMON SERVICES				
19	Water Pump/ Tube Well/ Water Treatment/ Softning Plant			= 30 KW
20	STP			= 30 KW
21	Common Area Lighting			= 5 KW
22	Elevators	6 nos	@ 12 KW	= 72 KW
23	External / Gate / Landscape lighting			= 10 KW
24	Basement / Parking lights	9476 sqm	@ 0.7 W/sqm	= 7 KW
25	Basement Ventilation			= 50 KW
26	Fire pumps (only jockey pumps have been considered)	2 set	@ 15 KW	= 30 KW
Total Load =			1826 KW	
By taking Diversity factor			75 % =>	1370 KW
By taking Power factor			0.90 =>	1520 KVA
Total Electrical Load = 1520 KVA				
Recommended Transformers (at 85% loading) = 1 no. 2000 KVA.				
DG set Calculation				
By taking Power factor			0.80 =>	1712 KVA
Therefor, Total Essential Electrical Load				=> 1712 KVA
Recommended DG sets				
For - 2 nos 625 KVA (HOTEL), 1 nos 380 KVA (Commercial) & 1 nos 380 KVA (for Common Services & Service Apartments)				

rev. no.	date	revision
..	..	..

project

"MANGAL HEIGHTS"

PROPOSED HOTEL COMPLEX

AT KHASRA No. 1069, N.H. 58

VILLAGE :- NOORNAGAR, GHAZIABAD.

title

ELECTRICAL DRAWING

subtitle

SETTING-OUT PLAN (AT SITE PLAN)

drawing released for

☐ APPROVAL

☒ MUN. SUBMISSION

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☐ CONSTRUCTION

drg. no.

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