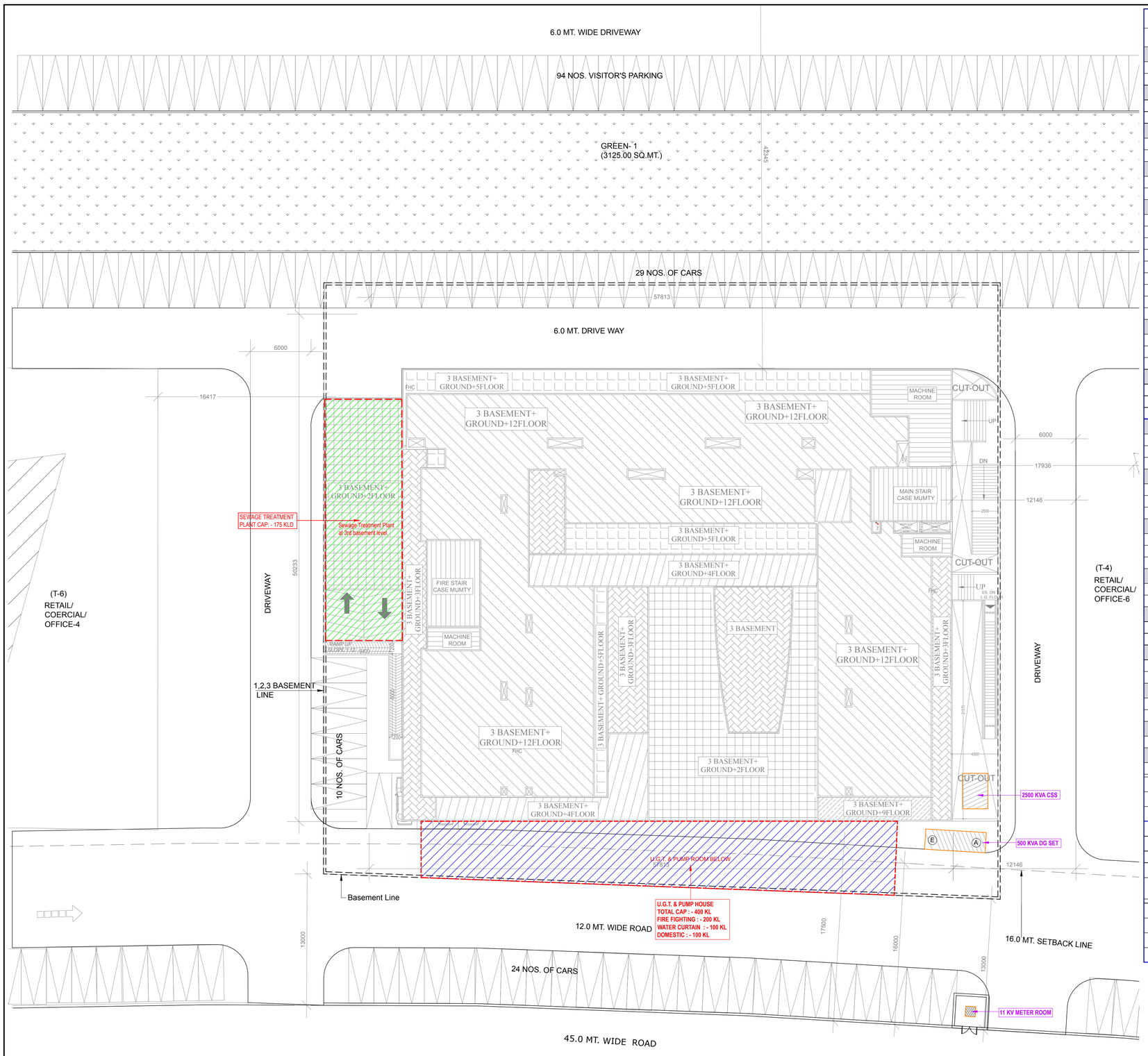

ELECTRICAL LOAD "PROPOSED LAYOUT PLAN OF COMMERCIAL PLOT No.-5 (T-5) "

S.No.	Description	Area in Sq. mtr.	Unit Load	Load (in KW)
A	**Basement -1 / Lower Ground Floor**			
1	Shoping	1572	Sq mtr @ 150 Watt/Sq mtr	= 235.8 KW
2	Common Area + Toilet	1065	Sq mtr @ 10 Watt/Sq mtr	= 10.7 KW
B	**Ground Floor**			
3	Shoping	958	Sq mtr @ 150 Watt/Sq mtr	= 143.7 KW
4	Common Area + Toilet	902	Sq mtr @ 10 Watt/Sq mtr	= 9.0 KW
C	**1st Floor**			
5	Shoping	1108	Sq mtr @ 150 Watt/Sq mtr	= 166.2 KW
6	Common Area + Toilet	870	Sq mtr @ 10 Watt/Sq mtr	= 8.7 KW
D	**2nd Floor**			
7	Shoping	1355	Sq mtr @ 150 Watt/Sq mtr	= 203.3 KW
8	Common Area + Toilet	937	Sq mtr @ 10 Watt/Sq mtr	= 9.4 KW
E	**3rd Floor**			
9	Banquet Small-01	121	Sq mtr @ 150 Watt/Sq mtr	= 18.2 KW
10	Banquet Small-02	145	Sq mtr @ 150 Watt/Sq mtr	= 21.8 KW
11	Banquet Small-03	141	Sq mtr @ 150 Watt/Sq mtr	= 21.2 KW
12	Banquet Large	490	Sq mtr @ 150 Watt/Sq mtr	= 73.5 KW
13	Kitchen Load (For Banquet Halls)	4	Nos @ 10 KW	= 40.0 KW
14	Restaurant	241	Sq mtr @ 150 Watt/Sq mtr	= 36.2 KW
a.	Kitchen	82	Sq mtr @ 20 Watt/Sq mtr	= 1.6 KW
b.	Kitchen Power Load			= 30.0 KW
15	Common Area + Toilet	763	Sq mtr @ 10 Watt/Sq mtr	= 7.6 KW
F	**4th Floor**			
16	Guest Room (Big)	5	Nos @ 3 KW	= 15.0 KW
17	Guest Room (Small)	22	Nos @ 2.5 KW	= 55.0 KW
18	Common Area	816	Sq mtr @ 10 Watt/Sq mtr	= 8.2 KW
G	**5th Floor**			
19	Guest Room (Big)	5	Nos @ 4 KW	= 20.0 KW
20	Guest Room (Small)	25	Nos @ 3.5 KW	= 87.5 KW
21	Common Area	481	Sq mtr @ 10 Watt/Sq mtr	= 4.8 KW
H	**6th Floor**			
22	Service Apartment / Office (2 Rm)	13	Nos @ 3.5 KW	= 45.5 KW
23	Service Apartment / Office (1 Rm)	11	Nos @ 3.0 KW	= 33.0 KW
24	Common Area	461	Sq mtr @ 10 Watt/Sq mtr	= 4.6 KW
I	**7th Floor**			
25	Service Apartment / Office (2 Rm)	13	Nos @ 3.5 KW	= 45.5 KW
26	Service Apartment / Office (1 Rm)	11	Nos @ 3.0 KW	= 33.0 KW
27	Common Area	440	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
I	**8th Floor**			
28	Service Apartment / Office (2 Rm)	13	Nos @ 3.5 KW	= 45.5 KW
29	Service Apartment / Office (1 Rm)	11	Nos @ 3.0 KW	= 33.0 KW
30	Common Area	440	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
J	**9th Floor**			
31	Office	838	Sq mtr @ 150 Watt/Sq mtr	= 125.7 KW
32	Common Area	420	Sq mtr @ 10 Watt/Sq mtr	= 4.2 KW
K	**10th Floor**			
33	Office	912	Sq mtr @ 150 Watt/Sq mtr	= 136.8 KW
34	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
L	**11th Floor**			
35	Office	912	Sq mtr @ 150 Watt/Sq mtr	= 136.8 KW
36	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
M	**12th Floor**			
37	Office	912	Sq mtr @ 150 Watt/Sq mtr	= 136.8 KW
38	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
N	**Basement-02**			
39	Parking	3945	Sq mtr @ 1 Watt/Sq mtr	= 3.9 KW
O	**Basement-03**			
40	Parking	3945	Sq mtr @ 1 Watt/Sq mtr	= 3.9 KW
41	Water Pump/ Tube Well/ Water Treatment/ Softning Plant			= 50 KW
42	STP			= 50 KW
43	External Lighting			= 10 KW
44	Elevators	7	Nos. @ 10 KW	= 70 KW
45	Escalator	10	Nos. @ 8 KW	80 KW
46	Mechanical Parking			20 KW
47	Basement Ventilation			60 KW
48	Fire pumps (only jockey pumps have been considered)	2	Job @ 15 KW	= 30 KW
			Total Load	**2408 KW**
	By taking overall project Diversity Factor		**75% =>**	**1806 KW**
	By taking Power Factor		**0.9 =>**	**2006 KVA**

Recommended Transformers (at 80% loading) = " 1 nos 2500 KVA Transformer "

ELECTRICAL LOAD "PROPOSED LAYOUT PLAN OF COMMERCIAL PLOT No.-5 (T-5) "

S.No.	Description	Area in Sq. mtr.	Unit Load	Load (in KW)
A	**Basement -1 / Lower Ground Floor**			
1	Common Area + Toilet	1065	Sq mtr @ 10 Watt/Sq mtr	= 10.7 KW
B	**Ground Floor**			
2	Common Area + Toilet	902	Sq mtr @ 10 Watt/Sq mtr	= 9.0 KW
C	**1st Floor**			
3	Common Area + Toilet	870	Sq mtr @ 10 Watt/Sq mtr	= 8.7 KW
D	**2nd Floor**			
4	Common Area + Toilet	937	Sq mtr @ 10 Watt/Sq mtr	= 9.4 KW
E	**3rd Floor**			
5	Common Area + Toilet	763	Sq mtr @ 10 Watt/Sq mtr	= 7.6 KW
F	**4th Floor**			
6	Common Area	816	Sq mtr @ 10 Watt/Sq mtr	= 8.2 KW
G	**5th Floor**			
7	Common Area	481	Sq mtr @ 10 Watt/Sq mtr	= 4.8 KW
H	**6th Floor**			
8	Common Area	461	Sq mtr @ 10 Watt/Sq mtr	= 4.6 KW
I	**7th Floor**			
9	Common Area	440	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
I	**8th Floor**			
10	Common Area	440	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
J	**9th Floor**			
11	Common Area	420	Sq mtr @ 10 Watt/Sq mtr	= 4.2 KW
K	**10th Floor**			
12	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
L	**11th Floor**			
13	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
M	**12th Floor**			
14	Common Area	443	Sq mtr @ 10 Watt/Sq mtr	= 4.4 KW
N	**Basement-02**			
15	Parking	3945	Sq mtr @ 1 Watt/Sq mtr	= 3.9 KW
O	**Basement-03**			
16	Parking	3945	Sq mtr @ 1 Watt/Sq mtr	= 3.9 KW
17	Water Pump/ Tube Well/ Water Treatment/ Softning Plant			= 50 KW
18	STP			= 50 KW
19	External Lighting			= 10 KW
20	Elevators	7	Nos. @ 10 KW	= 70 KW
21	Escalator	10	Nos. @ 8 KW	80 KW
22	Mechanical Parking			20 KW
23	Basement Ventilation			60 KW
24	Fire pumps (only jockey pumps have been considered)	2	Job @ 15 KW	= 30 KW
			Total Load	**467 KW**
	By taking overall project Diversity Factor		**75% =>**	**350 KW**
	By taking Power Factor		**0.8 =>**	**438 KVA**

Recommended DG set (at 85% loading) = " 1 nos 500 KVA "

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

project
PROPOSED LAYOUT PLAN OF COMMERCIAL
PLOT No.-5 (T-5) AT INTERNATIONAL BUSINESS BAY-1
SUSHANT GOLF CITY HI-TECH TOWNSHIP
SULTANPUR ROAD, LUCKNOW (U.P.).

title
LAYOUT PLAN

subtitle
ELECTRICAL SETTING-OUT PLAN

drawing released for
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☐ ADVANCE COPY ☐ CONSTRUCTION

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