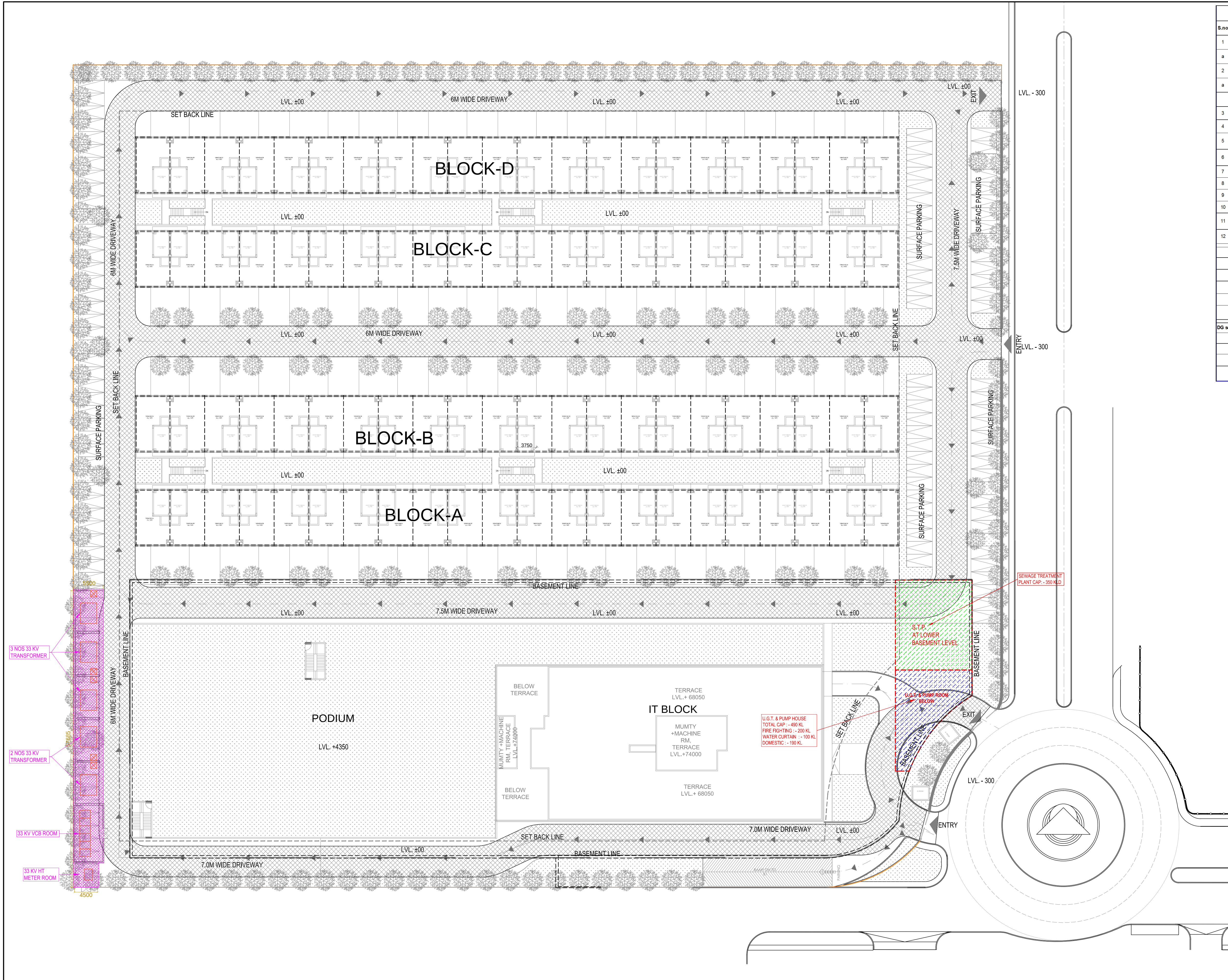
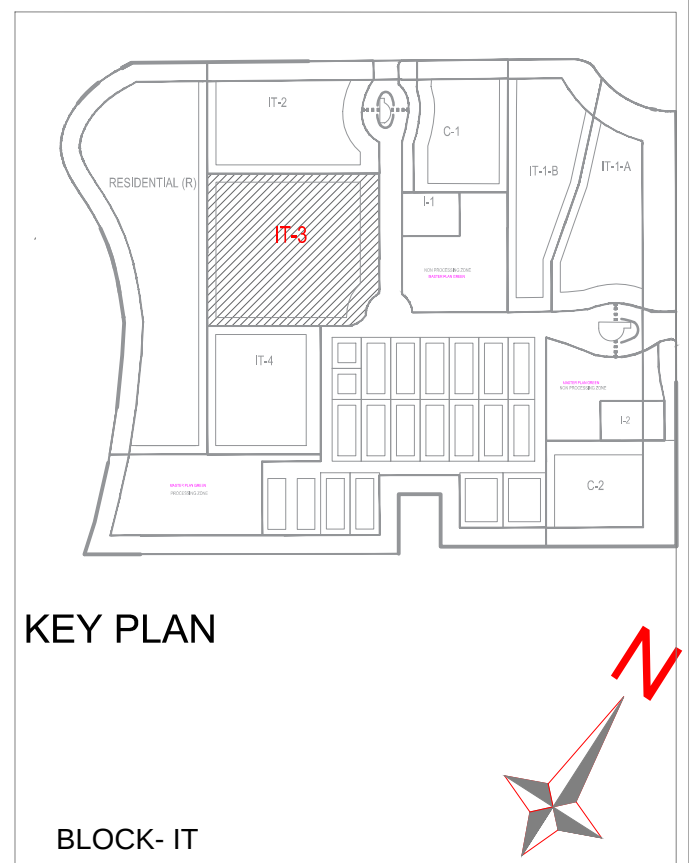




Electrical load Calculation				
S.no	Description	No. of unit	Load per Unit	Total Load
1	High Rise			
a	Office Area	24463 sqm @	150.0 W/sqm	= 3669 KW
2	Low Rise			
a	Office Area (Block 1-4)	28773 sqm @	150.0 W/sqm	= 4316 KW
COMMON SERVICES				
3	Water Pump/ Tube Well/ Water Treatment/ Softing Plant			= 90 KW
4	STP / ETP			= 90 KW
5	Elevator (High rise)	7 nos @	15 KW	= 105 KW
6	Elevator (Low rise)	88 nos @	4 KW	= 352 KW
7	Stillt lights	3968 sqm @	1.0 W/sqm	= 4 KW
8	Podium lights	3440 sqm @	1.0 W/sqm	= 3 KW
9	Basement	22922 sqm @	1.0 W/sqm	= 23 KW
10	Basement Ventilation	252.14 KW @	30 %	= 76 KW
11	External Lighting / Signage	1 nos @	20 KW	= 20 KW
12	Fire pumps (only jockey pumps have been considered)	2 set @	15 KW	= 30 KW
Total Load				= 8778 KW
By taking Diversity factor				75 % => 6584 KW
By taking Power factor				0.90 => 7320 KVA
Total Electrical Load				= 7320 KVA
Transformer Loading				80 % => 9150 KVA
Recommended Transformers				= 5 nos 2000 KVA.
DG set Calculation				
By taking Power factor				0.80 => 8230 KVA
Therefor, Total Essential Electrical Load				= 8230 KVA
DG Loading				85 % => 9682 KVA
Recommended DG sets				= 4 nos 2000 KVA + 2 nos 1010 KVA.



rev. no.	date	revision
..	..	..
project		
PROPOSED IT-3, IT-SEZ, ON PLOT NO. TZ-6, GREATER NOIDA		
title		
LAYOUT PLAN		
subtitle		
ELECTRICAL SETTING-OUT PLAN		
drawing released for		
☒ SUBMISSION ☐ APPROVAL		
☐ ADVANCE COPY ☐ CONSTRUCTION		
drg. no.	IT-3 / 23B01 / ES-05	drawn by Prem Saini
scale	1 : 350	designed by Badri Vishal
date	21.07.2023	checked by Anand Havelia
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