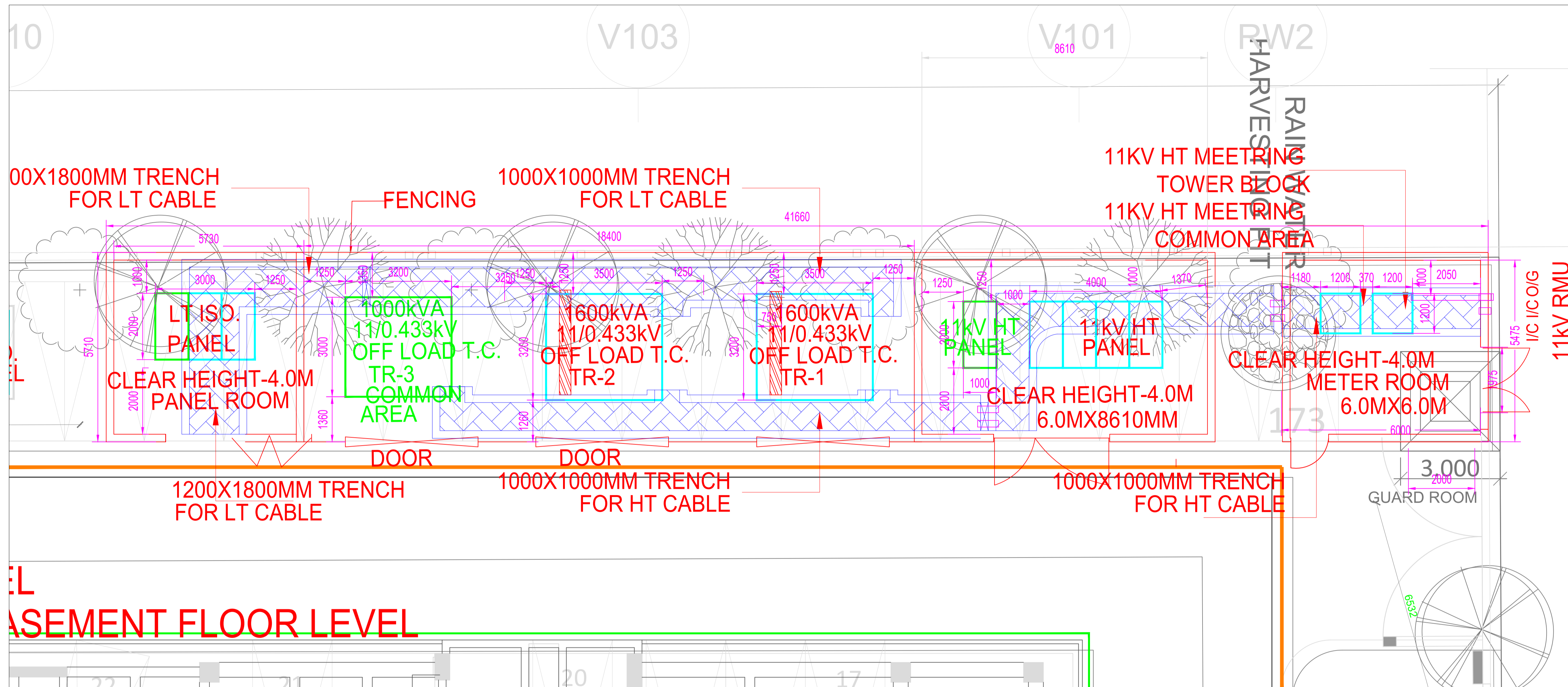


NOTES:
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 3. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS.
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 5. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS.



BASEMENT FLOOR LEVEL

LAND OWNER : RAJHANS INFRA TECH PVT LTD.						
PROJECT NAME: RAJHANS RESIDENCY						
ELECTRICAL LOAD						
MSC						
5/18/2022						
S.No.	Description	Area (Sqft)	Per Flat Connection (kW)	No. of FLAT	Connected (kW)	Demand (kW)
PHASE-I						
A. FLATS LOAD						
1 Block-G						
1.1	2BHK	660.0	5.0	38	125.4	0.5
1.2	3BHK Type-1	900.0	5.0	38	171	0.5
2 Block-H						
2.1	2BHK	660.0	5.0	76	250.8	0.5
2.2	3BHK Type-1	900.0	5.0	38	171	0.5
3 Block-I						
3.1	2BHK+Study	770.0	5.0	42	161.7	0.5
3.2	3BHK Type-1	900.0	5.0	42	189	0.5
4 Block-J						
4.1	3BHK Type-2	970.0	5.0	76	368.6	0.5
4.2	COMMERCIAL SHOPS	699.0	5.0	32	104.85	0.8
TOTA - LOAD (kW)						1542.35
OVERALL DIVERSITY (0.9)						682.24
DG SELECTION (COMMON AREA ONLY) PHASE-I						
TOTA - LOAD (kW)						682.24
LOAD IN KVA AT 0.8PF						852.80
TRANSFORMER CAPACITY AT 85% LOADING						1003.29
SELECTED DG						2Nos 500KVA DG SETS
PHASE-II						
B. FLATS LOAD						
1 Tower-1						
1.1	4BHK	1618.6	8.00	120	960.00	0.5
2 Tower-2						
2.1	2BHK	1040.4	5.00	124	620.00	0.5
2.2	3BHK	1325.2	7.00	124	868.00	0.5
2.3	4BHK	1618.6	8.00	3	24.00	0.5
TOTA - LOAD (kW)						2472.00
OVERALL DIVERSITY (0.9)						1236.00
TRANSFORMER SELECTION PHASE-I&II						
TOTA - LOAD (kW)						2038.63
OVERALL DIVERSITY (0.9)						1732.84
LOAD IN KVA AT 0.8PF						1925.38
TRANSFORMER CAPACITY AT 80% LOADING						2406.72
SELECTED TRANSFORMER						2NO1250KVA 11/0.433
NOTE: TRANSFORMER ARE SUFFICIENT FOR PHASE-I&II						
REQUIRED DG SET FOR FLATS AREA (PHASE-II)						
OVERALL DIVERSITY (0.9)						1050.60
DG SELECTION (COMMON AREA ONLY) PHASE-I						297.17
TOTA - LOAD (kW)						1050.60
LOAD IN KVA AT 0.8PF						1313.25
TRANSFORMER CAPACITY AT 90% LOADING						1459.17
SELECTED DG						2Nos 750KVA DG SETS

S.No.	Description	Area (Sqft)	Per Flat Connection (kW)	No. of FLAT	Connected (kW)	Diversity	Demand (kW)
PHASE-I							
C. COMMON SERVICES LOAD							
1	Club	7435.16			111.53	0.8	89.22
2	Basement-Light & Power	178735.80			53.65	0.8	42.92
3	Basement-Ventilation	178735.80			198.00	0.8	158.40
4	Stilt Lighting Load	141023.67			42.33	0.8	31.75
5	External Light				10.00	0.8	8.00
6	Plumbing				20.00	0.8	16.00
7	STP				40.00	0.6	24.00
8	Fire Fighting				15.00	0.8	12.00
9	Lift-8No.@10kW-2No. On each tower				80.00	0.6	48.00
10	Tower common services				15.00	0.8	12.00
11	Lift-Pressurization-8No.@5.6kW each-2No. on each tower				44.80	0	0.00
TOTA - LOAD (kW)(PHASE-I)						630.31	442.30
OVERALL DIVERSITY (0.9)							398.07
DG SELECTION (COMMON AREA ONLY) PHASE-I							
TOTA - LOAD (kW)							398.07
LOAD IN KVA AT 0.8PF							497.58
TRANSFORMER CAPACITY AT 85% LOADING							585.39
SELECTED DG							1Nos 600KVA DG SETS
PHASE-II							
D. COMMON SERVICES LOAD							
1	Club	4277.6			64.16	0.8	51.33
2	Basement-Light & Power	93224.6			27.98	0.8	22.39
3	Basement-Ventilation	178735.8			150.00	0.6	90.00
4	Stilt & Refugi Area Lighting Load	105986.0			31.82	0.8	25.45
5	External Light				10.00	0.8	8.00
6	Plumbing				10.00	0.8	8.00
7	STP	Existing					
8	Fire Fighting	Existing					
9	Lift-7No.@20kW				140.00	0.6	84.00
10	Tower common services				10.00	0.8	8.00
11	Lift-Pressurization-20Nos@5.6kW each-2No. on each tower				100.00	0.0	0.00
TOTA - LOAD (kW)(PHASE-II)						543.96	297.17
TOTAL LOAD (kW) (PHASE-I&II)							739.47
OVERALL DIVERSITY (0.9)							665.52
TRANSFORMER SELECTION (PHASE-I&II)							
LOAD IN KVA AT 0.8PF							739.47
TRANSFORMER CAPACITY AT 80% LOADING							924.33
SELECTED TRANSFORMER							1NO 1000KVA 11/0.433
REQUIRED DG SET FOR COMMON AREA (PHASE-II)							
DG SELECTION (COMMON AREA ONLY) PHASE-II							297.17
TOTA - LOAD (kW)							297.17
OVERALL DIVERSITY (0.9)							267.45
LOAD IN KVA AT 0.8PF							334.32
TRANSFORMER CAPACITY AT 85% LOADING							393.32
SELECTED DG							1Nos 400KVA DG SETS

KAKASHA ARCHITECTS
 ARCHITECTS
 (CA-86-1000)
 J-16, Sector-47, Noida

RAJHANS INFRA TECH PVT. LTD.
 Authorised Signatory

NOS.	DATE	DESCRIPTION	DWN	CKD.
REVISIONS				

OWNER
VRINDA GROUP

PROJECT TITLE
**RAJHANS RESIDENCY
 AT PLOT NO. GH-6B,
 SECTOR - 01, G. NOIDA, U.P.**

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DRAWING TITLE
ELECTRICAL SUBSTATION LAYOUT

ELECTRICAL DRAWING

DRAWN BY ANGREJ		DRG. NUMBER AEPLASPEL-02A	
CHECKED BY Shr Singh		SCALE :- A2@1:100	

ELECTRICAL SUBMISSION DRAWING