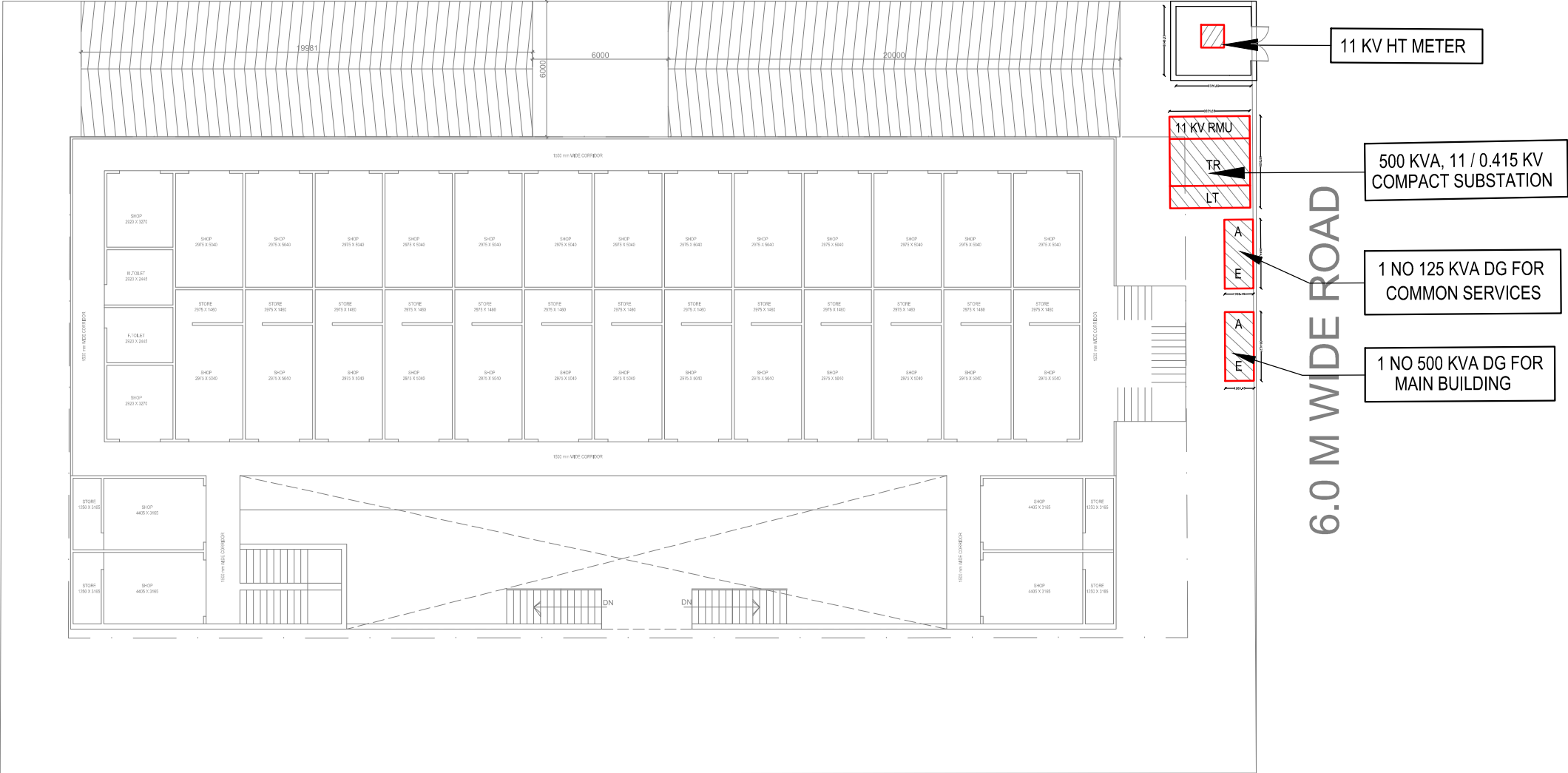



9.0 M WIDE ROAD



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Rev. No.	Date	Revision
Project : PROPOSED COMMERCIAL AT GHAZIABAD		
Title : SUBMISSION DRAWING		
Subtitle : EXTERNAL ELECTRICAL PLAN		
Drawing Released For : <input type="checkbox"/> APPROVAL <input checked="" type="checkbox"/> SUBMISSION <input type="checkbox"/> ADVANCE COPY <input type="checkbox"/> CONSTRUCTION		
Drg. No : MP / EX - 04		
Scale : 1:180	Drawn By : Rakesh Kumar	
Date : May 2023	Design By : Devesh Agarwal	
Ckd By : Devesh Agarwal		
CLIENT : HAPPY MART-HIRNOT GROUP		
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Services Consultant : VISION TO SERVICES CONSULTANTS  Office : 3 Vijayepur, Behind Amar Shaheed Path Vibhuti Khand, Gomti Nagar, Lucknow - 226010 email : vision2services@gmail.com MB : +91-7355437439		

ELECTRICAL LOAD: PROPOSED COMMERCIAL COMPLEX AT GHAZIABAD									
S.No.	Description	Area in Sq. mtr.		Unit Load			Load (in KW)		
1	Basement Floor								
	Parking	602	Sq mtr	@	1	Watt/Sq mtr	=	0.6	KW
	Corridors + Stairs + Toilets	33	Sq mtr	@	15	Watt/Sq mtr	=	0.5	KW
	Shop Area	246	Sq mtr	@	150	Watt/Sq mtr	=	36.9	KW
2	Ground Floor								
	Corridors + Stairs + Toilets	41	Sq mtr	@	15	Watt/Sq mtr	=	0.6	KW
	Shop Area	844	Sq mtr	@	150	Watt/Sq mtr	=	126.6	KW
3	First Floor								
	Corridors + Stairs + Toilets	18	Sq mtr	@	15	Watt/Sq mtr	=	0.3	KW
	Shop Area	815	Sq mtr	@	150	Watt/Sq mtr	=	122.3	KW
4	Second Floor								
	Corridors + Stairs + Toilets	18	Sq mtr	@	15	Watt/Sq mtr	=	0.3	KW
	Shop Area	815	Sq mtr	@	150	Watt/Sq mtr	=	122.3	KW
5	Third Floor								
	Corridors + Stairs + Toilets	37	Sq mtr	@	15	Watt/Sq mtr	=	0.6	KW
	Shop Area	494	Sq mtr	@	150	Watt/Sq mtr	=	74.1	KW
	COMMON SERVICES								
6	Water Pump/ Tube Well/ Water Treatment/ Softning Plant						=	20	KW
7	STP						=	20	KW
8	External Lighting						=	10	KW
9	Elevators	1	Nos.	@	12	KW	=	12	KW
10	Basement Ventilation							25	KW
						Total Load		572	KW
	By taking overall project Diversity Factor					75% =>		429	KW
	By taking Power Factor					0.9 =>		477	KVA

ELECTRICAL LOAD: PROPOSED COMMERCIAL COMPLEX AT GHAZIABAD									
S.No.	Description	Area in Sq. mtr.		Unit Load			Load (in KW)		
Recommended Transformers (at 80% loading) = " 1 nos 500 KVA "									
	By taking 0.80 Power Factor					0.8 =>	536	KVA	
Recommended DG sets (at 85% loading) = " 1 nos 500 KVA + 1 nos 125 KVA "									