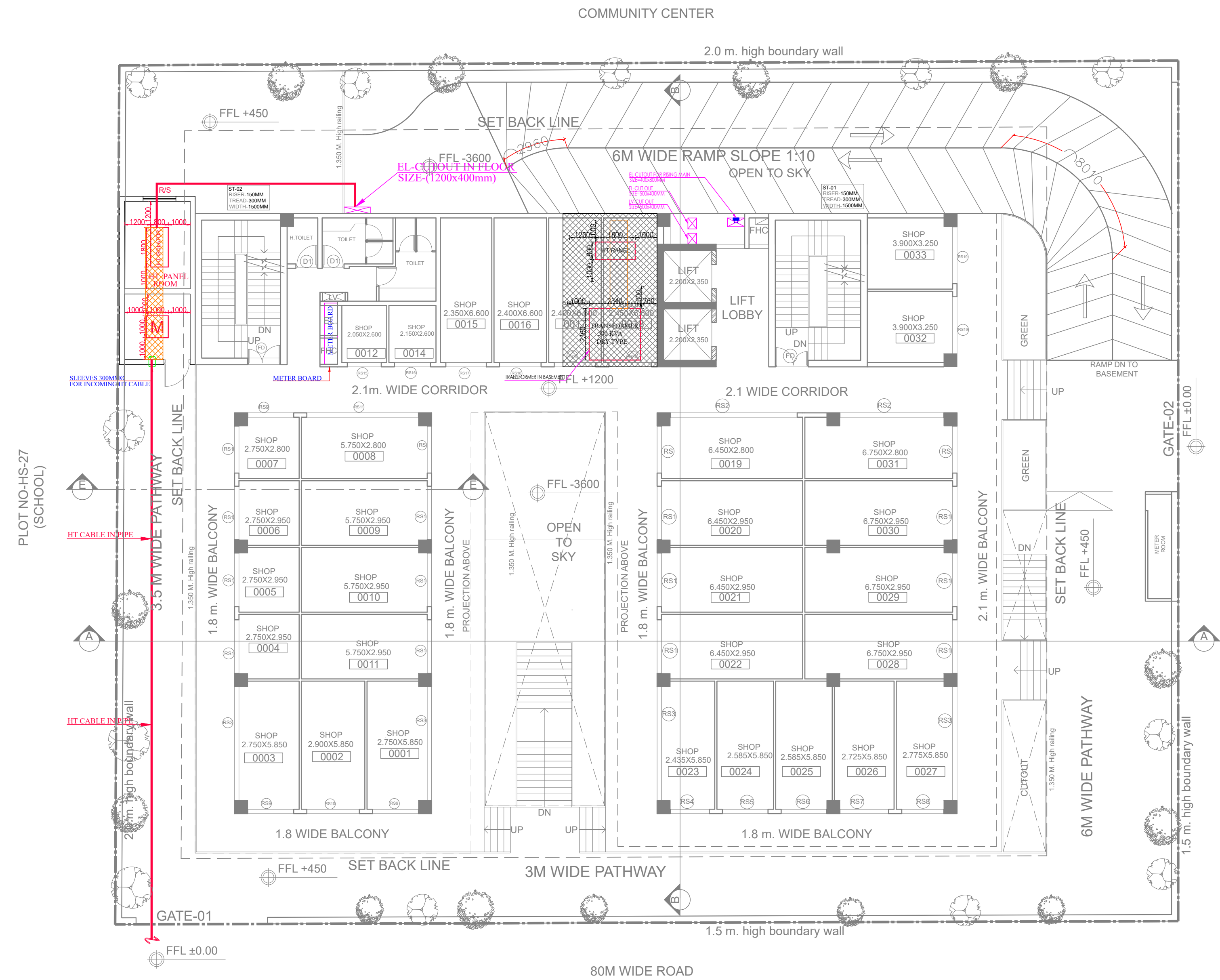
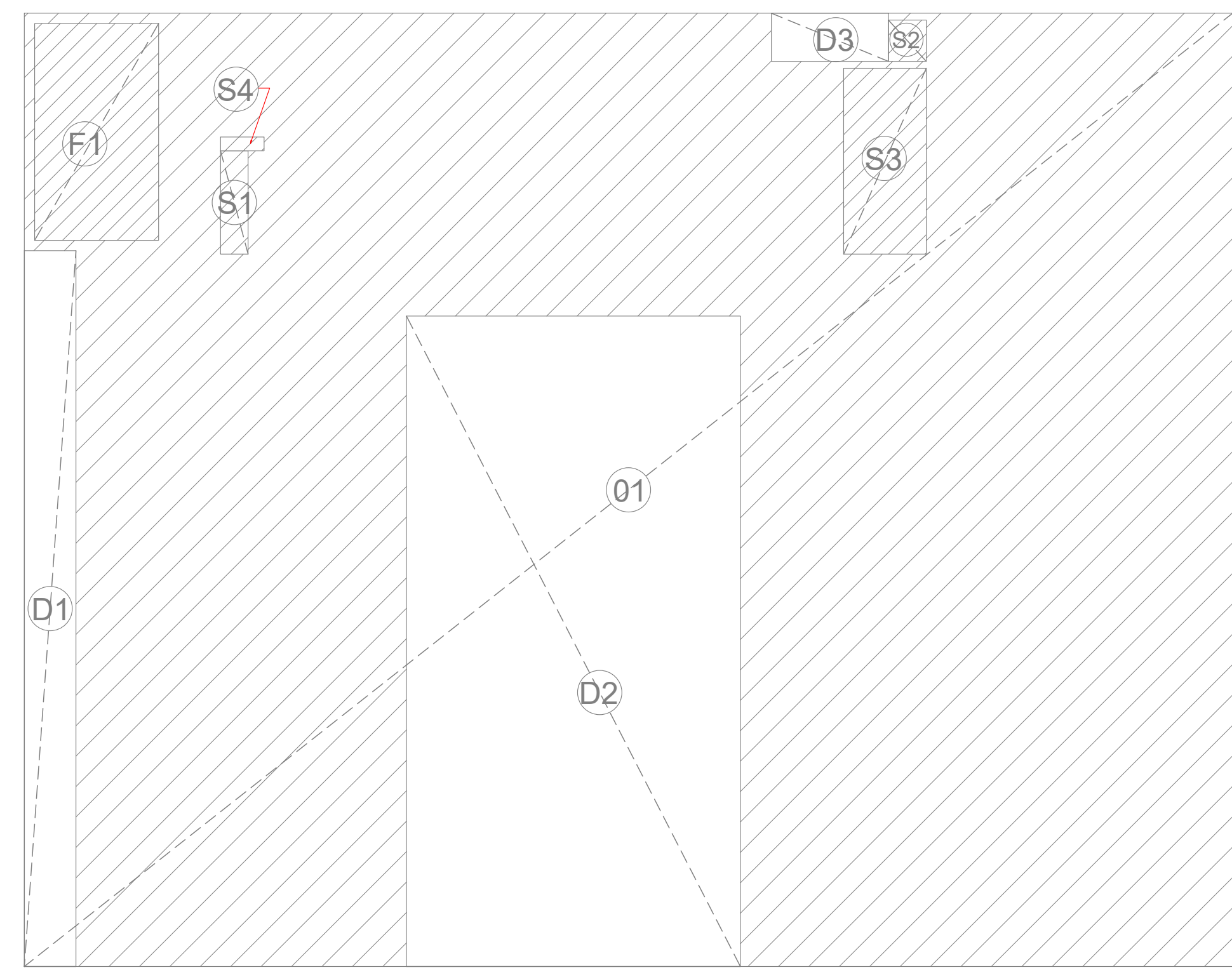




PLOT NO-HS-27
(SCHOOL)

12M WIDE ROAD



GROUND FLOOR ENVELOPE

PROJECT :- SIGMA GALLERIA COMMERCIAL SEC-SIGMA, GREATER NOIDA					
LOAD SUMMARY					
S.NO.	DESCRIPTION	CONNECTED LOAD (KW)	DIVERSITY FACTOR	MAXIMUM DEMAND (KW)	DG BACKUP
1	General Lighting Load	75	AS PER AREA DETAILS	67	67
2	General Power Load	417	AS PER AREA DETAILS	112	112
3	General UPS Load	23	0.8	19	19
4	Lifts (2 Nos @7.5KW each)	15	1	15	15
5	Car Lifts (1 Nos @10KW each)	10	0.8	8	8
6	HVAC Load includings (Ventilation, Pressurization Etc.)	350	0.7	245	245
7	Plumbing & STP Load	20	0.8	16	16
8	Fire Fighting Load	100	ONLY JOCKEY PUMP CONSIDERED	10	10
9	External Lighting Load	5	0.8	4	4
10	E-Vehicle Charging Point	18	0.3	5	5
TOTAL LOAD (KW)		1033 KW		500 KW	500 KW
TRANSFORMER SIZE					
Peak Demand Load @ 0.8 Diversity factor				400.23	KW
Peak Demand KVA on 0.95 Power factor				421.29	KVA
Transformer Rating at 85% Loading				495.64	KVA
Provide 1Nos. 500 KVA 11 KV/0.433 KV Oil Type Transformer					
D.G. SET SIZE					
Peak Demand Load @ 0.8 Diversity factor				400.23	KW
Peak Demand KVA on 0.8 Power factor				500.28	KVA
D.G. Rating at 85% Loading				588.57	KVA
Provide 2 Nos. 320 KVA Air Cooled DG Sets					

DOOR WINDOW SCHEDULE		
RS	2100	3000
RS1	2450	3000
RS2	4750	3000
RS3	5200	3000
RS4	1785	3000
RS5	2085	3000
RS6	2000	3000
RS7	2225	3000
RS8	1925	3000
RS9	2100	3000
RS10	2400	3000
RS11	5100	3000
RS12	1500	3000
RS16	1650	3000
RS17	1850	3000
RS18	1900	3000
RS19	2600	3000
FD	1500	2400
D1	1000	2100
D2	750	2100
DW	2150	2100

GROUND FLOOR AREA CALCULATION				
TOTAL AREA				
S.NO.	Dimension (M)	Dimension (M)	NOS.	AREA (SQ.M)
01	35.100	27.700	1	972.270
TOTAL ENVELOPE AREA (A)				972.270
DUDCTION AREA				
S.NO.	Dimension (M)	Dimension (M)	NOS.	AREA (SQ.M)
D1	1.500	20.800	1	31.200
D2	9.700	18.900	1	183.330
D3	1.400	3.400	1	4.760
TOTAL ENVELOPE AREA (B)				219.290
15% SERVICES AREA (FIRE STAIR CASE LIFT LOBBY AND SHAFT)				
S.NO.	Dimension (M)	Dimension (M)	NOS.	AREA (SQ.M)
F1	3.600	6.300	1	22.680
S1	0.800	3.000	1	2.400
S2	1.100	1.200	1	1.320
S3	2.400	5.400	1	12.960
S4	1.265	0.400	1	0.506
TOTAL ENVELOPE AREA (C)				39.866
TOTAL F.A.R. GROUND FLOOR (A-B-C)				713.114
15% SERVICES AREA GROUND FLOOR (C)				39.866

