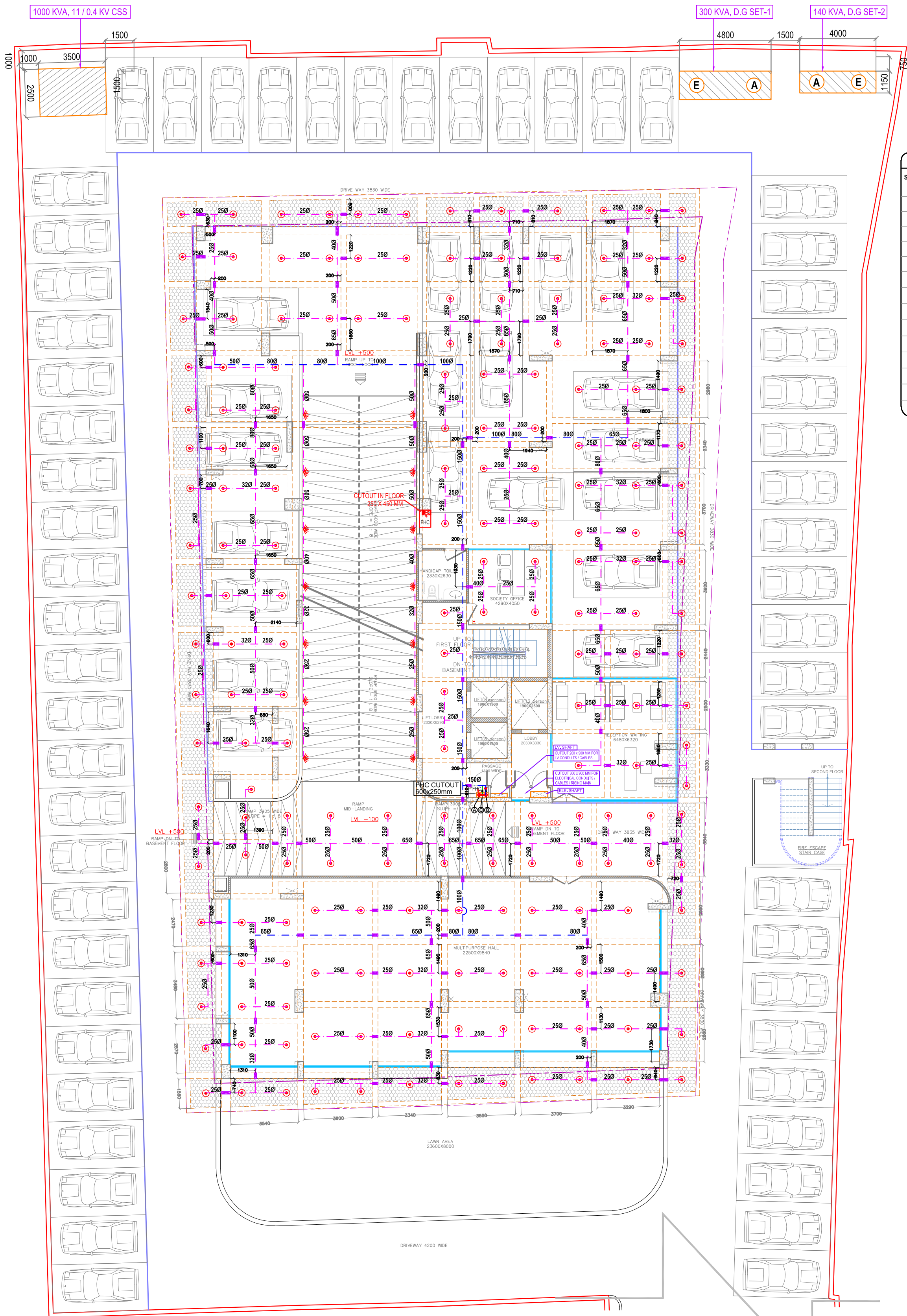




LEGEND : (FIRE FIGHTING & ALARM SYSTEM)			
S. No.	SYMBOL	DESCRIPTION	POSITION
1.	①	1500 SPRINKLER PIPE	
2.	②	1500 HYDRANT PIPE	
3.	③	800 G.I SPRINKLER DRAIN PIPE	
4.	④	FIRE WATER LINE FOR SPRINKLER SYSTEM	
5.	⑤	ISOLATING VALVE	
6.	⑥	FLOW SWITCH	
7.	⑦	SPRINKLER DRAIN PIPE	
8.	⑧	SIDE WALL TYPE SPRINKLER HEAD	
9.	⑨	SIDE WALL (EXTENDED COVERAGE) TYPE SPRINKLER HEAD	
10.	⑩	UPRIGHT TYPE SPRINKLER HEAD	
11.	⑪	PENDENT TYPE SPRINKLER HEAD	
12.	⑫	SPRINKLER PIPE SLEEVE	

- NOTES : (FOR SPRINKLER SYSTEM)**
- The size of range sprinkler pipes shall be as here under :-
a) 25 Ø 3 - Sprinkler
b) 32 Ø 4 - Sprinkler
c) 40 Ø 6 - Sprinkler
d) 50 Ø 9 - Sprinkler
e) 65 Ø 18 - Sprinkler
 - Pipe material
- Sprinkler pipe - MS (CLASS C) heavy duty
- drain pipe - G.I (CLASS B) medium duty
 - Joining of pipe
a) Up to 40 mm dia - screw joint
b) 50 mm & above dia - welded joint
 - Material of sleeve
- G.I. pipe tack welded with reinforcement
 - For side wall sprinklers, the deflector of the sprinklers shall be not less than 100 mm and not more than 150 mm below the finished ceiling surface. (Clause 11.4.1.1, IS : 15105)
 - All fire piping accessories should be painted by fire red colour (shade no. 536 as per IS : 5)
 - All pipe sizes are in mm, and nominal dia., only
 - The position of sleeve in beam for side wall sprinkler will be measured from bottom of the thickest slab.
 - The sprinkler piping inside apartment will be finally concealed in cornice of the rooms, hence, the sleeve is to be left accordingly as per cornice detail. It is also suggested that a makeup assembly of cornice & sprinkler should be made at site to avoid any confusion.
 - The openings inside Electrical, LV & Fire shaft should be sealed at each floor.
 - size of sleeve for sprinkler pipe shall be as follows :-

Diameter of Sprinkler Pipe (mm)	Diameter of Sleeve (mm)
For pipe upto 40 mm diameter	800
For 50 / 65 mm dia. pipe	1000
For 80 / 100 mm dia. pipe	1500
 - The spacing of fire pipe supports for sprinkler / clevis hanger shall not be more than that specified below:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.00	8
32 to 50	2.50	8
65 to 80	2.50	10
100	2.50	12
150	3.00	16
200 & above	3.00	16
 - NOTE :- 1) Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.
 - The support drilling for fire pipe has to be co-ordinated with Electrical / Fire alarm / LV drawing to avoid any damage in conduit,

