

LEGEND : (Electrical & Fire Alarm System)		
S. No.	SYMBOL	DESCRIPTION
1.		LIGHT POINT/ WALL BRACKET
2.		1x 28 WATT TUBE LIGHT (SURFACE)
3.		1x 18 W. CFL TYPE CEILING LIGHT (SURFACE)
4.		CEILING LIGHT (SURFACE)
5.		RAMP LIGHT
6.		6/16 AMP POWER POINT
7.		6/16 AMP POWER POINT
8.		20 AMP POWER POINT FOR UPS
9.		6 AMP PLUG POINT
10.		6 AMP PLUG POINT
11.		EXHAUST FAN / CEILING ROSE
12.		EMERGENCY LIGHT POINT INDICATION
13.		SWITCH BOARD
14.		DISTRIBUTION BOARD (TOP LEVEL)
15.		MANUAL CALL POINT (BREAK GLASS TYPE)
16.		ELECTRONIC NOTIFIER
17.		TALK BACK UNIT
18.		OPTICAL TYPE SMOKE DETECTOR
19.		FIXED CUM RATE OF RISE OF TEMPERATURE TYPE HEAT DETECTOR
20.		RESPONSE INDICATOR
21.		TELEPHONE POINT
22.		INDICATIVE CONDUIT RUN FOR LIGHTING (250)
23.		INDICATES CONTROLLING OF LIGHT FAN FROM SWITCH BOARD
24.		INDICATES CONTROLLING OF EMERGENCY LIGHT FROM SWITCH BOARD
25.		INDICATIVE CONDUIT RUN FOR POWER (250)
26.		INDICATIVE CONDUIT RUN FOR FIRE ALARM SYSTEM
27.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM
28.		INDICATIVE CONDUIT RUN FOR EMERGENCY (250)

Notes : (Electrical)

- R, Y & B indicates phases.
- The number written near the switch board and power points indicates circuit number. For detail of circuits refer distribution board charts.
- The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
- For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.m.m. (Wherever specified)
- 6 amp. plug shall be connected to the lighting skt. of that area by 1.0 sq.m.m.
- The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D. B. schedule).
- TV / Tel. conduit sizes shall be :
 - From LV shaft to TV / Tel junction box : 2 nos. 250
 - From TV / Tel L.B. to further distribution : 25 mm dia.
- The conduits used for wiring shall be as follows :
 - PVC - Heavy duty (2 mm thick) : In RCC slab / RCC Wall / In brick wall / Block Work
 - PVC - Medium duty (1.6 mm thick) : 25 mm dia.
 - The minimum conduit size in RCC Slab / RCC Wall shall be M.S. (16 SWG) : All surface conduit inside shaft / False ceiling / basement
- Flexible conduit shall be used at expansion joints for electrical & L.V. wiring.
- Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.m.m wires as shown in drawings.
- No two dissimilar phase circuit / wire shall run together through same conduit.
- Light and power circuit shall be drawn through separate conduit.
- Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
- The sequence of phase distribution in different apartments will be different for overall phase balancing.
- The position mentioned in legend is bottom of switch board / outlets.
- The openings inside Electrical, L.V & Fire shaft should be sealed at each floor.
- Conduit drop should be precisely co-ordinated with brick work. It is advised to mark brick work layout on slab before casting for exact position of conduit drop.
- In case of two way fans, the switch will be provided on main board, while regulator will be provided on bed side board.
- In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
- The Earth Continuity wire has to be laid for all electrical outlets / sockets / light / fan points. Size of earth wire shall be as follows :-

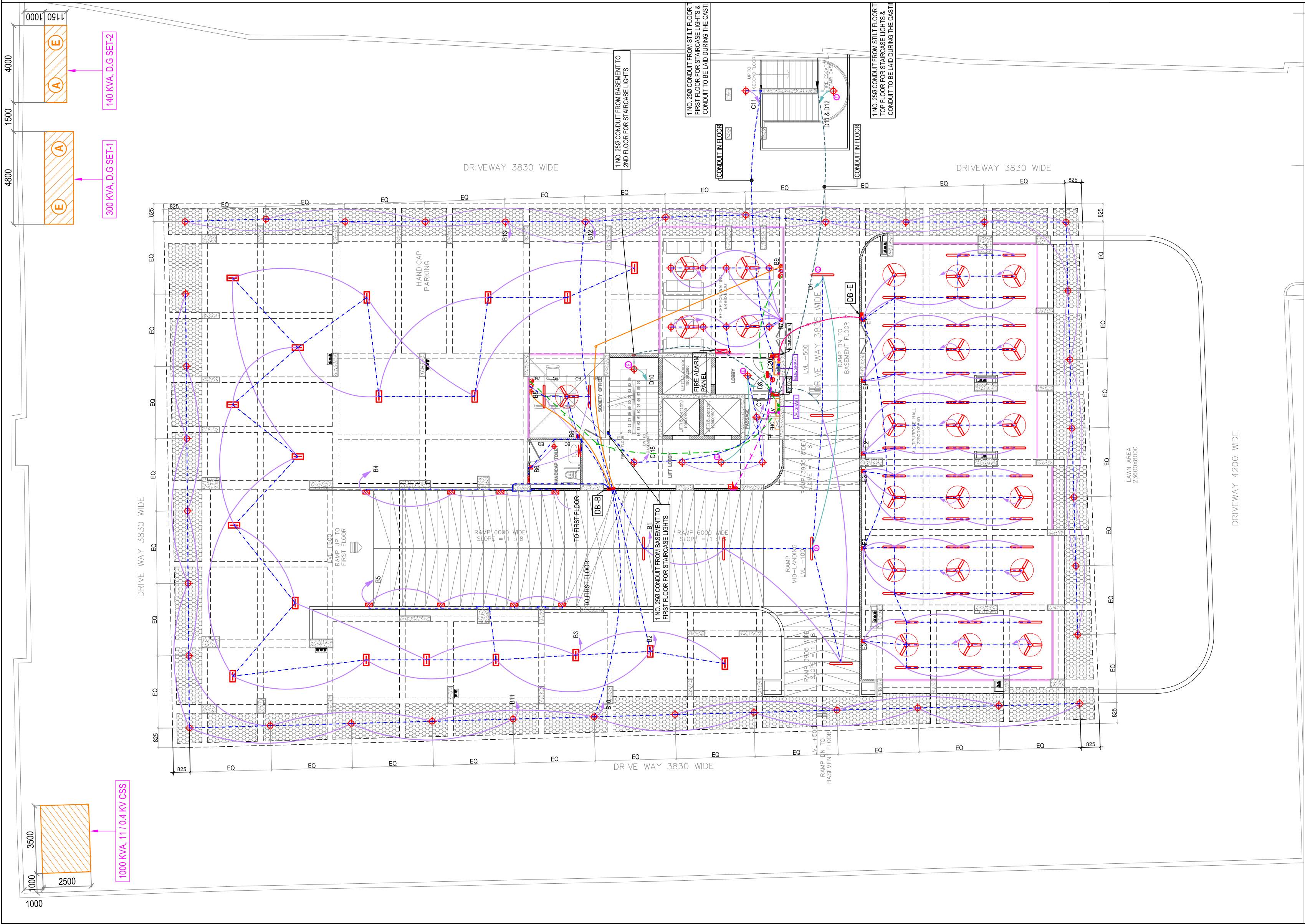
Phase Wire (sq.m.m.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.m.m.)	1x1.0	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x6	2x6

Notes :
*AC UNITS SHALL BE PROVIDED AS PER INTERIOR ARCHITECT DRAWINGS

COMMON DISTRIBUTION BOARD : (B) (8 WAY - TPN)
(TO BE USED AS SINGLE PHASE DB)

LOCATION :- STILT FLOOR			
CKT. NO.	WIRE SIZE IN SQ. MM.	SP. MCB'S RATING IN AMP	L O C A T I O N
C-1	2 x 1.5	6	BASMENT TO FIRST FLOOR
C-2	2 x 1.5	6	2ND FLOOR TO 3TH FLOOR
C-3	2 x 1.5	6	2ND FLOOR TO 3TH FLOOR
C-4	2 x 1.5	6	4TH FLOOR TO 5TH FLOOR
C-5	2 x 1.5	6	4TH FLOOR TO 5TH FLOOR
C-6	2 x 1.5	6	6TH FLOOR TO 7TH FLOOR
C-7	2 x 1.5	6	6TH FLOOR TO 7TH FLOOR
C-8	2 x 1.5	6	8TH FLOOR TO 9TH FLOOR
C-9	2 x 1.5	6	8TH FLOOR TO 9TH FLOOR
C-10	2 x 1.5	6	10TH FLOOR TO 11TH FLOOR
C-11	2 x 1.5	6	10TH FLOOR TO 11TH FLOOR
C-12	2 x 1.5	6	12TH FLOOR TO 14TH FLOOR
C-13	2 x 1.5	6	12TH FLOOR TO 14TH FLOOR
C-14	2 x 1.5	6	9TH FLOOR TO 10TH FLOOR
C-15	2 x 1.5	6	9TH FLOOR TO 10TH FLOOR
C-16	2 x 1.5	6	9TH FLOOR TO 10TH FLOOR
C-17	2 x 1.5	6	9TH FLOOR TO 10TH FLOOR
C-18	2 x 1.5	6	STAIRCASE (BASEMENT TO FIRST FLOOR)
C-19	2 x 1.5	6	STAIRCASE (STILT FLOOR TO FIRST FLOOR)
C-20	2 x 4	20	BASMENT TO TOP FLOOR (ELECTRICAL SHUNT POWER POINT)
C-21	2 x 6	20	POWER SOCKET FOR LIPS
C-20 TO C-24	SPARES		
INCOMER :- 63 A DP MCB + 63 A DP RCCB (30 mA) (10KA) TYPE-A			
SUBMAIN :- 2 x 16 SQ. M. M.			

R2.	17.08.2015	ISSUED FOR CONSTRUCTION
R1.	16.08.2015	AC UNITS REMOVED & CEILING LIGHT ADDED IN THE SUNKEN PROJECTION
R0.	31.08.2015	ISSUED FOR APPROVAL
rev. no.	date	revision



DISTRIBUTION BOARD : (E) (6 WAY - TPN)				
LOCATION :- STILT FLOOR (MULTIPURPOSE HALL)				
CKT. NO.	WIRE SIZE SQ. MM.	SP. MCB'S RATING IN AMP	L O C A T I O N	P H A S E
E-1	2 x 1.5	6	MULTIPURPOSE HALL	R
E-2	2 x 1.5	6	MULTIPURPOSE HALL	R
E-3	2 x 1.5	6	MULTIPURPOSE HALL	R
E-4	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-5	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-6	2x4	20	MULTIPURPOSE HALL (AO)	B
E-7	2x4	20	MULTIPURPOSE HALL (AO)	B
E-8	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-9	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-10	2x4	20	MULTIPURPOSE HALL (AO)	B
E-11	2x4	20	MULTIPURPOSE HALL (AO)	B
E-12	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-13	2x4	20	MULTIPURPOSE HALL (AO)	Y
E-14 TO E-18	SPARES			
INCOMER :- 63 A TP MCB + 63 A TP RCCB (30 mA) (10KA) TYPE-A				
SUBMAIN :- 2 x 16 SQ. M. M.				

EMERGENCY COMMON DISTRIBUTION BOARD : (B) (6 WAY - TPN) (TO BE USED AS SINGLE PHASE DB)			
LOCATION :- STILL FLOOR		L O C A T I O N	
CKT. NO.	WIRE SIZE SQ. M.M.	SP. MCB'S RATING IN AMP	
D-1	2 x 1.5	6	BASEMENT TO FIRST FLOOR DOWNWAY
D-2	2 x 1.5	6	PUMP ROOM
D-3	2 x 1.5	6	BASEMENT TO 2ND FLOOR
D-4	2 x 1.5	6	3RD FLOOR TO 2ND FLOOR
D-5	2 x 1.5	6	6TH FLOOR TO 5TH FLOOR
D-6	2 x 1.5	6	9TH FLOOR TO 11TH FLOOR
D-7	2 x 1.5	6	12TH FLOOR TO 14TH FLOOR
D-8	2 x 1.5	6	16TH FLOOR TO 17TH FLOOR
D-9	2 x 1.5	6	18TH FLOOR TO TOP FLOOR
D-10	2 x 1.5	6	STAIRCASE (BASEMENT TO 2ND FLOOR)
D-11	2 x 1.5	6	STAIRCASE (BASEMENT TO 9TH FLOOR)
D-12	2 x 1.5	6	STAIRCASE (10TH FLOOR TO TOP FLOOR)
D-13 TO D-18	SPARES		
INCOMER :- 40 A DP MCB + 40 A DP RCCB (30 mA) (10KA) TYPE-A			
SUBMAIN :- 2 x 10 SQ. M. M.			

LOCATION - STILL FLOOR		
CKT. NO.	WIRE SIZE SQ. MM.	SP. MCB'S RATING IN AMP
B-1	2 x 1.5	6
B-2	2 x 1.5	6
B-3	2 x 1.5	6
B-4	2 x 1.5	6
B-5	2 x 1.5	6
B-6	2 x 1.5	6
B-7	2 x 1.5	6
B-8	2x2.5	16
B-9	2x2.5	16
B-10	2 x 1.5	6
B-11	2 x 1.5	6
B-12	2 x 1.5	6
B-13	2 x 1.5	6
B-14	2x4	20
B-15	2x4	20
B-16	2x4	20
B-17 TO B-18	SPARES	
INCOMER :- 40 A DP MCB + 40 A DP RCCB (30 mA) (10KA) TYPE-A		
SUBMAIN :- 2 x 10 SQ. M. M.		

project

"AIR" The Residential Apartment
@ Ratnapuri, Jaipur

drawing released for

☐ APPROVAL
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☐ SUBMISSION
☒ CONSTRUCTION

title

ELECTRICAL LAYOUT

subtile

STILT FLOOR (B+S+19)

scale

1:150 @ A1

date

AUGUST 2015

designed by

DC Sharma

checked by

Anand Havella

drawn by

Balwinder singh

architects

GRAPHITE DESIGN STUDIO

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