

GENERAL NOTES:-

A LEGEND.

1 REFER TO LEGEND FOR THOSE SYMBOLS ONLY MENTIONED ON ALL LAYOUT PLANS. OTHER SYMBOLS SHOWN IN LEGEND BUT NOT ACTUALLY SHOWN ON LAYOUT DRAWINGS MAY PLEASE BE IGNORED.

B ELECTRICAL WORKS.

1 THE FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
ALL ELECTRICAL WORKS PERTAINING TO WIRING OF ELECTRICAL SYSTEMS SHALL STRICTLY CONFORM TO I.E.E LATEST EDITION OF RULES & REGULATIONS.

2 ELECTRICAL DRAWINGS

ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS AND IN CO-ORDINATION WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS.

3 DIMENSIONS ON ELECTRICAL LAYOUT PLANS

ALL DIMENSIONS IF SHOWN ON THE ELECTRICAL LAYOUT PLANS ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO DO ALL NECESSARY CALCULATIONS TO ARRIVE AT THE ACTUAL DIMENSIONS/MEASUREMENTS IN CO-ORDINATION WITH ALL OTHER RELEVANT DRAWINGS OF OTHER SERVICES.

4 SHOP DRAWINGS

THE ELECTRICAL CONTRACTOR SHALL PREPARE ELECTRICAL SHOP DRAWINGS WITH ALL NECESSARY RELEVANT DETAILS. THE SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL BEFORE THE COMMENCEMENT OF ANY WORKS AT SITE.

5 CO-ORDINATION

THE ELECTRICAL CONTRACTOR SHALL DO ALL NECESSARY CO-ORDINATION OF ELECTRICAL WORKS AND ALLIED SYSTEMS WITH ALL OTHER SERVICES AT SITE.

6 BALANCING OF ELECTRICAL LOADS

ELECTRICAL LOADS ON ALL 3 PHASES SHALL BE BALANCED ON THE ELECTRICAL WORKS AT THE TIME OF TESTING AND COMMISSIONING OF THE ELECTRICAL INSTALLATIONS.

7 ELECTRICAL WIRING.

ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN WALLS, SLABS, COLUMNS AND FLOORS OR AS SHOWN ON DRAWINGS.

8 THE WIRING SHOULD BE STARTED ONLY AFTER THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.

9 PVC CONDUITS.

ALL PVC CONDUIT SHALL BE OF 3/4" OR 1" DIA (DEPENDING UPON NUMBER OF WIRES) FROM SWITCH BOARD TO LIGHT POINTS & 1" DIA FROM DBs TO SWITCH BOARDS AND POWER SOCKETS OR AS SHOWN ON DRAWINGS.

10 LUBRICATION.

NO LUBRICATION EXCEPT AS RECOMMENDED BY MANUFACTURER SHALL BE USED FOR PULLING OF WIRES IN PVC CONDUITS.
NO OIL OF ANY KIND SHALL BE USED.

11 COLOUR CODING

COLOUR CODING FOR WIRING SHALL BE AS FOLLOWS: RED, YELLOW AND BLUE FOR PHASES, BLACK FOR NEUTRAL AND GREEN / YELLOW FOR CPC (EARTH).

12 SIZE OF WIRES

FOLLOWING SIZES OF PVC INSULATED WIRES WITH COPPER CONDUCTORS SHALL BE USED FOR INTERNAL WIRING, UNLESS STATED OTHERWISE.

12.1 1.5mm sq PVC INSULATED WIRES SHALL BE USED FROM SWITCH BOARD TO LIGHT POINTS AND 5 Amps SOCKETS OR AS SPECIFIED IN B.O.Q

12.2 2.5mm sq PVC INSULATED WIRES SHALL BE USED FROM DB TO SWITCH BOARDS FOR LIGHTING CIRCUITS.

12.3 4mm sq OR 6mm sq PVC INSULATED WIRES OR AS SHOWN ON DRAWING/BOQ SHALL BE USED FOR WIRING FROM DB TO POWER SOCKETS.

12.4 BACK BOXES

ALL BACK BOXES FOR SWITCHES & SOCKETS SHALL MADE OF M.S SHEET 16SWG OR AS SPECIFIED IN BOQ WITH EARTH TERMINAL. SIZE OF BACK BOX SHALL CORRESPOND TO THE SIZE OF SWITCHES/SOCKETS.

13 EARTHING OF POINTS.

ALL ELECTRICAL AND POWER SOCKETS SHALL BE PROPERLY EARTHED WITH 2.5mm sq PVC INSULATED WIRES OF COLOUR GREEN-YELLOW.

14 CAPACITY OF CONDUITS.

THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT FOR WIRING PURPOSES SHALL CONFORM TO I.E.E RULES & REGULATIONS

15 CONDUIT FOR LIGHT WIRING.

WIRING SHALL BE DONE IN 3/4" & 1" DIA PVC CONDUIT FOR LIGHT POINTS AND CIRCUIT WIRING ON NORMAL/ GENERATOR SUPPLY OR AS SPECIFIED IN BOQ OR AS SHOWN ON DRAWINGS.

16 DISTRIBUTION BOARDS "LIGHT" & "POWER"

ALL DISTRIBUTION BOARDS SHOWN ON DRAWINGS SHALL BE CONCEALED IN WALL & INSTALLED AT 4'-0" (1000mm) F.F.L OR AS SHOWN IN LEGEND/DRAWINGS.

17 WIRING SYSTEM

LOOPING IN SYSTEM SHALL BE EMPLOYED FOR WIRING OF ALL LIGHT POINTS, FAN POINTS, EXHAUST FANS ETC. PHASE WIRE SHALL BE LOOPED AT SWITCH WHEARAS NEUTRAL AND EARTH WIRES SHALL BE LOOPED AT POINTS ON SLAB OR WALL

C TELEPHONE CONDUIT

1 PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF TELEPHONE POINTS. PVC CONDUIT SHALL BE BURIED IN FLOOR /SLAB & WALLS FROM TDBs TO TELEPHONE POINTS, OR AS SHOWN ON DRAWINGS./B.O.Q

D FIRE ALARM WIRING.

1 PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF FIRE ALARM POINTS. PVC CONDUIT SHALL BE BURIED IN FLOOR /SLAB & WALLS FROM FACP TO FIRE ALARM POINTS, OR AS SHOWN ON DRAWINGS./B.O.Q

FIRE ALARM JUNCTION BOX (FAJB).

2 M.S JUNCTION BOX 9"x6"x4" DEEP 16 SWG WITH COVER CONCEALED IN WALL AT 9" BELOW SLAB TO FACILITATE PULLING OF FIRE ALARM CABLES.

E CLOSE CIRCUIT TV (CCTV) WIRING.

1 PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF CCTV SYSTEM. PVC CONDUIT SHALL BE BURIED IN SLAB, WALLS & COLUMNS OR AS SHOWN ON DRAWING/BOQ

CLOSE CIRCUIT TV JUNCTION BOX (CCJB).

2 M.S JUNCTION BOX 9"x6"x4" DEEP 16 SWG WITH COVER CONCEALED IN WALL AT 9" BELOW SLAB TO FACILITATE PULLING OF CLOSE CIRCUIT TV CABLES.

F OTHER SYSTEMS.

1 1" DIA PVC CONDUIT SHALL BE USED FOR WIRING OF ALL OTHER SYSTEMS UNLESS OTHERWISE MENTIONED ON PLANS OR AS SPECIFIED IN B.O.Q

G ELECTRICAL CONSULTANT.

1 ELECTRICAL CONTRACTOR TO CONSULT ELECTRICAL CONSULTANT/ENGINEER FOR ANY FURTHER CLARIFICATIONS. NO ASSUMPTIONS SHOULD BE MADE.

H CO-ORDINATION.

NECESSARY CO-ORDINATION SHALL BE CARRIED OUT BY ELECTRICAL CONTRACTOR WITH ALL OTHER SERVICES.

I MEASUREMENTS.

MEASUREMENTS AND DIMENSIONS ON DRAWINGS ARE APPROXIMATE. ELECTRICAL CONTRACTOR TO STUDY ALL RELEVANT PLANS FOR DIMENSIONS ETC.

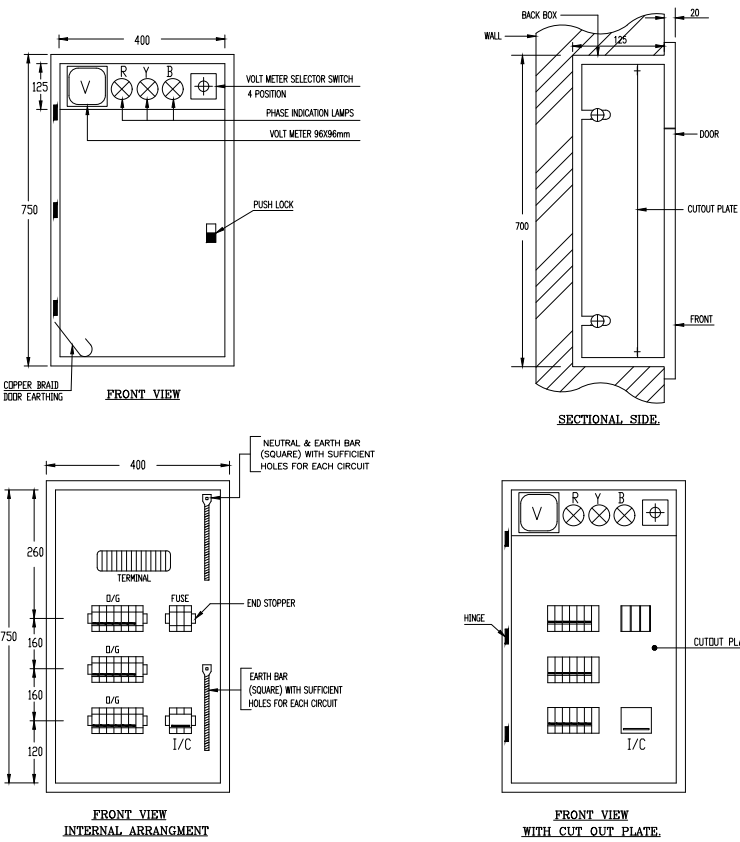
J SHOP DRAWINGS.

CONTRACTOR SHALL PREPARE DETAILED WORKING DRAWINGS FOR ELECTRICAL AND ALL OTHER ALLIED SYSTEMS BEFORE EXECUTION OF WORKS AT SITE.

K PLUGGING OF CONDUITS.

ALL PVC CONDUITS AND PIPES SHALL BE PLUGGED WITH BITUMENOUS HESSIAN FROM BOTH ENDS AND JOINTS TO BE PROPERLY SEALED TO AVOID INGRESS OF WATER

TENTATIVE CONSTRUCTIONAL DETAIL OF:-
DISTRIBUTION BOARD (DB) RECESSED TYPE.

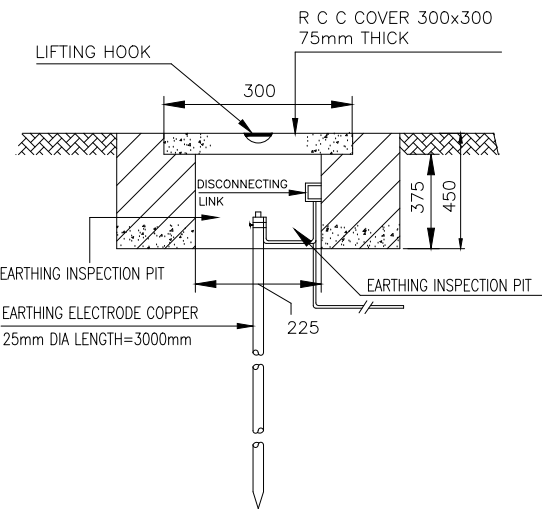


NOTE:-

ACTUAL SHOP DRAWING OF DB'S TO BE SUBMITTED BY CONTRACTOR TO ARCHITECT FOR APPROVAL

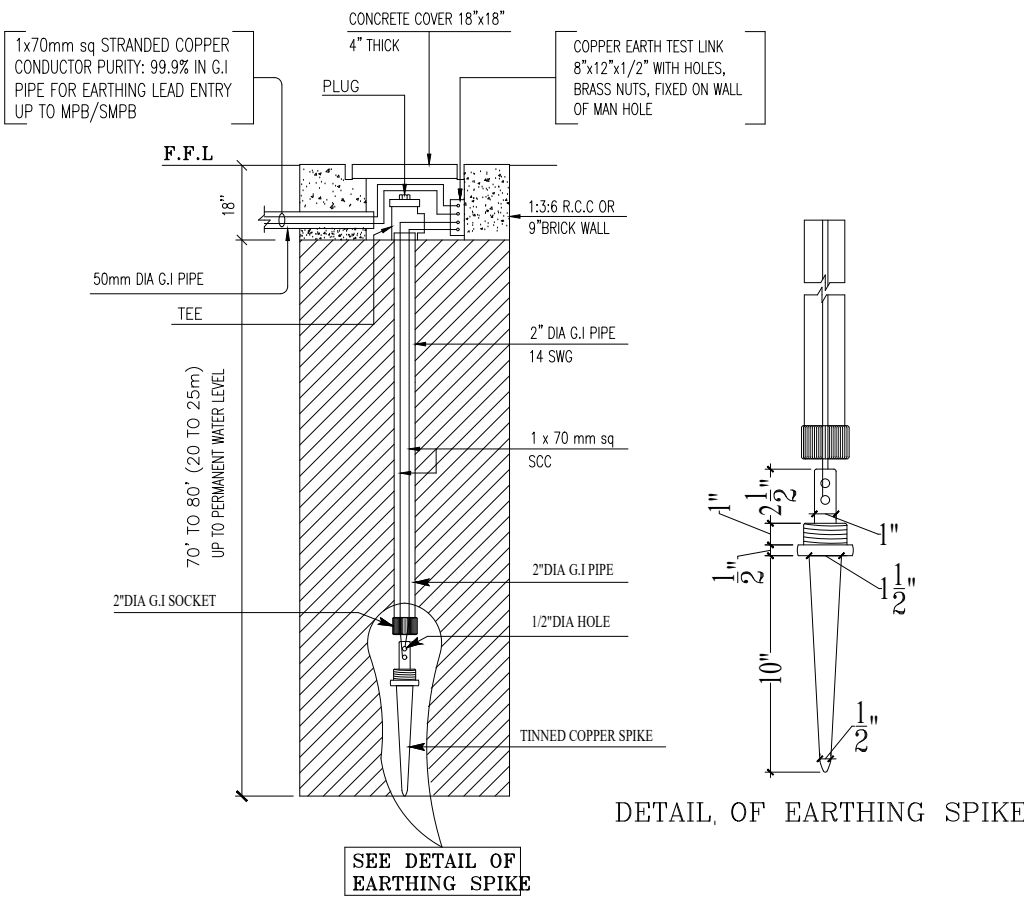
DETAIL : B

EARTHING SYSTEM ROD TYPE



DETAIL : A

EARTHING SYSTEM BORE TYPE



SEE DETAIL OF EARTHING SPIKE

NOTES FOR EARTHING SYSTEM

- 1- EARTH BORE SHALL BE MADE AT 6'-0" AWAY FROM FOUNDATION.
- 2- DISTANCE BETWEEN 2 EARTH BORES SHALL NOT BE LESS THEN 10 ft (3m)
- 3- COPPER CONDUCTOR AT TOP OF G.I PIPE SHALL BE BOLTED WITH THIMBLES, BRASS NUTS, BOLTS ETC.
- 4- JOINTS SHALL BE COVERED WITH BITUMEN
- 5- CONTRACTOR TO MEASURE EARTHING RESISTANCE IN THE PRESENCE OF SITE ENGINEER. BOTH THE SITE ENGINEER AND CONTRACTOR SHALL SIGN THE EARTH TESTING RESULT AND SUBMIT IT TO THE CLIENT FOR RECORD.

ARCHITECT.

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TITLE

GENERAL NOTES, TENTATIVE CONSTRUCTIONAL
DETAIL OF DISTRIBUTION BOARD (DB),
DETAIL OF EARTHING SYSTEMS, ROD TYPE
& BORE TYPE

PROJECT

EVENT COMPLEX, QADIRABAD
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