

GENERAL NOTES:

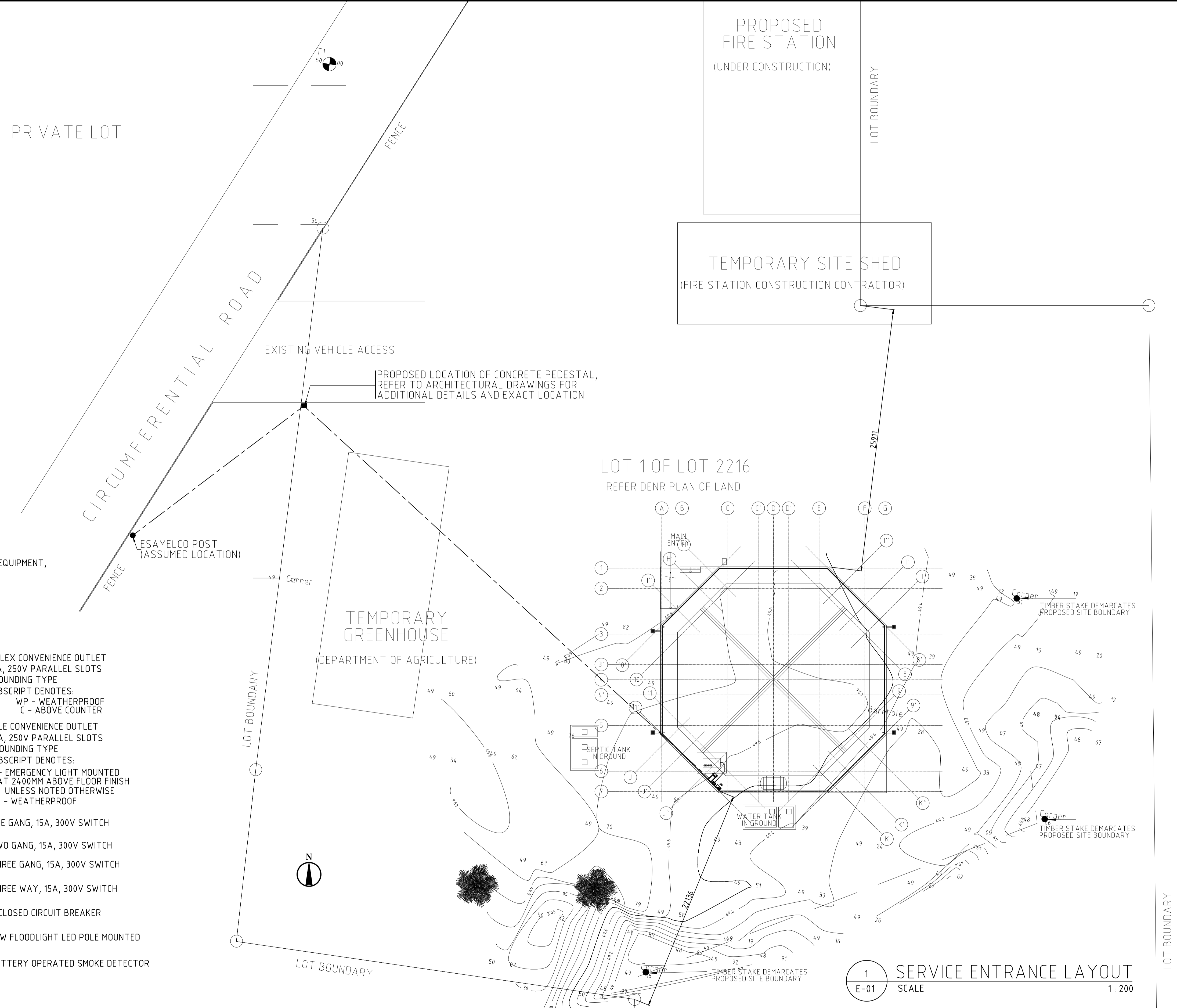
- ALL ELECTRICAL WORKS HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE LATEST REQUIREMENTS OF THE FOLLOWING:
 - NATIONAL BUILDING CODE OF THE PHILIPPINES
 - REQUIREMENTS OF PHILIPPINE ELECTRICAL CODE
 - RULES AND REGULATIONS OF CITY OF BORONGAN, EASTERN SAMAR
 - REQUIREMENTS OF EASTERN SAMAR ELECTRIC COOPERATIVE (ESAMELCO)
- ALL CONDUITS AND METAL FRAMES OF EQUIPMENT SHALL BE GROUNDED BY CONNECTING TO GROUNDING CONDUCTOR.
- ALL FEEDERS AND BRANCH CIRCUITS SHALL BE INSTALLED AS INDICATED ON PLANS. INDIVIDUAL BRANCH CIRCUIT HOMERUNS SHALL NOT BE COMBINED IN THE SAME RACEWAY UNLESS SO INDICATED. CONTROL WIRING SHALL BE INSTALLED AS INDICATED ON PLANS AND WIRING DIAGRAMS
- LIGHTING BRANCH CIRCUIT WIRINGS SHALL BE 2-2.0mm² THHN + GROUND WIRE IN 20 MMØ PVC UNLESS NOTED OTHERWISE.
- CONVENIENCE OUTLET BRANCH CIRCUIT WIRINGS SHALL BE 2-2.0mm² THHN + GROUND WIRE IN 20 MMØ PVC UNLESS NOTED OTHERWISE.
- BRANCH CIRCUIT CONDUCTORS SUPPLYING ELECTRICAL EQUIPMENT SHALL BE SOLID COPPER WITH 600V THHN INSULATION. FEEDER CONDUCTORS SHALL BE STRANDED COPPER.
- UNLESS NOTED OTHERWISE, MOUNTING HEIGHTS OF DEVICES SHALL BE AS FOLLOWS :

SWITCH	-1200MM ABOVE FLOOR FINISH
CONVENIENCE OUTLET	-300MM ABOVE FLOOR FINISH UNLESS NOTED OTHERWISE
EMERGENCY LTG. OUTLET	-170MM ABOVE COUNTER UNLESS NOTED OTHERWISE
HIGH LEVEL WALL MOUNTED OUTLET	-2400MM ABOVE FLOOR FINISH UNLESS NOTED OTHERWISE
	-1700MM ABOVE FLOOR FINISH
- RECEPTACLE OUTLETS LOCATED OUTSIDE OF THE BLDG. SHALL BE PROVIDED WITH CAST IRON METAL BOXES
- EXACT LOCATION OF MOTOR SHALL BE AS PER LAYOUT OF TRADES SUPPLYING THE MOTORS.
- ALL DIMENSIONS SHALL BE IN MILLIMETERS UNLESS NOTED. OTHERWISE, FOR EXACT DIMENSIONS REFER TO ARCHITECTURAL PLANS.
- ALL ELECTRICAL EQUIPMENT LOCATED OUTDOORS SHALL BE SUITABLE FOR OUTDOOR INSTALLATION.
- ALL LOCATION AND OTHER DETAILS FOR THE MOUNTING OF LIGHTING FIXTURES AND EQUIPMENT, REFER TO ARCHITECTURAL DRAWINGS.

LEGEND:

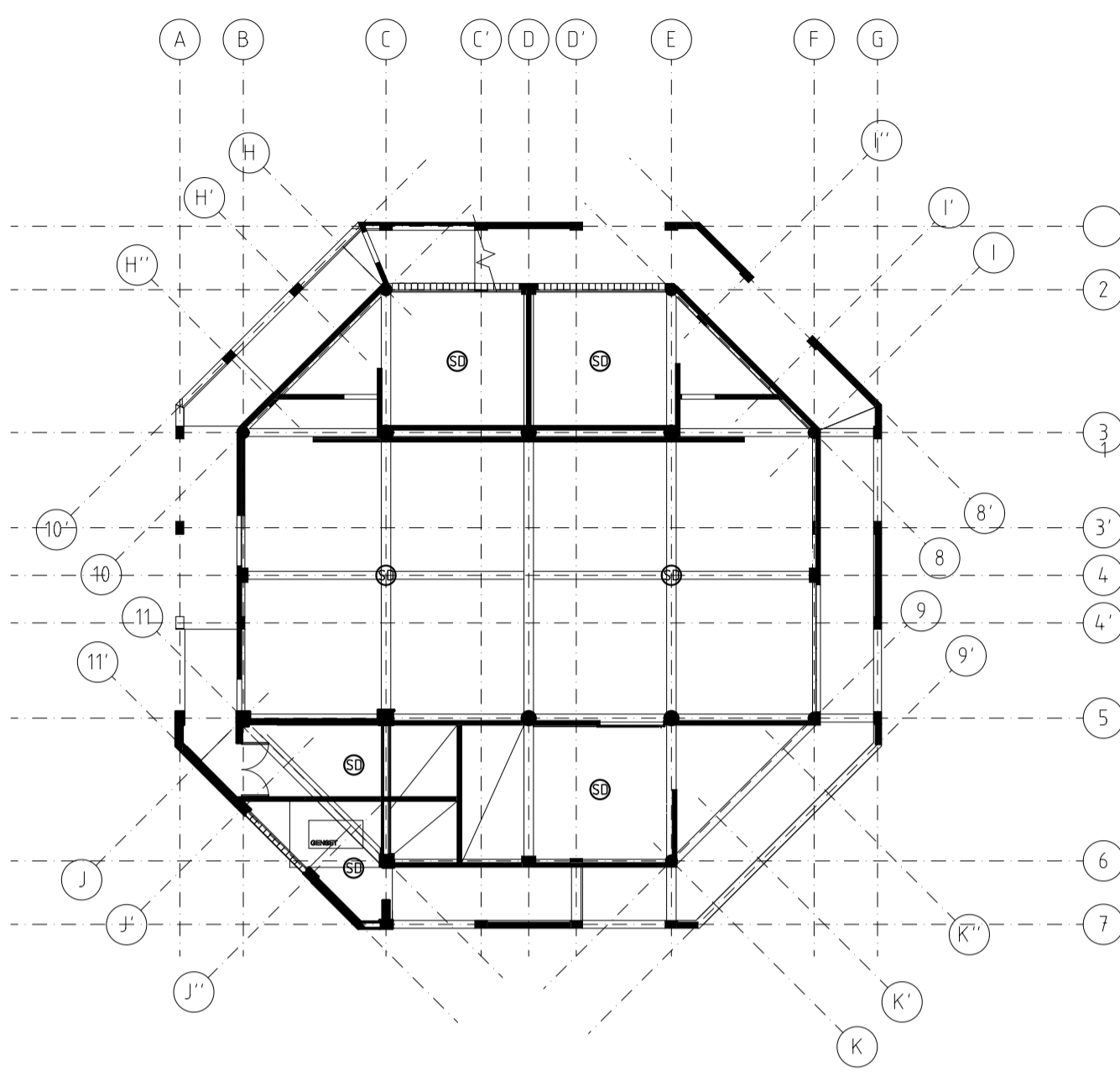
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|--|--|--|---|
| | LIGHTING PANELBOARD | | DUPLEX CONVENIENCE OUTLET
10A, 250V PARALLEL SLOTS
GROUNDING TYPE
SUBSCRIPT DENOTES:
WP - WEATHERPROOF
C - ABOVE COUNTER |
| | JUNCTION BOX | | SINGLE CONVENIENCE OUTLET
10A, 250V PARALLEL SLOTS
GROUNDING TYPE
SUBSCRIPT DENOTES:
E - EMERGENCY LIGHT MOUNTED
AT 2400MM ABOVE FLOOR FINISH
UNLESS NOTED OTHERWISE
WP - WEATHERPROOF |
| | 2X16 WATTS LED LAMP
SURFACE MOUNTED, OPEN TYPE
SUBSCRIPT DENOTES:
WP - WEATHER PROOF
A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
-SWITCHING | | ONE GANG, 15A, 300V SWITCH |
| | 1X16 WATTS LED LAMP
SURFACE MOUNTED, SLIM BOX TYPE
SUBSCRIPT DENOTES:
WP - WEATHER PROOF
A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P
-SWITCHING | | TWO GANG, 15A, 300V SWITCH |
| | EMERGENCY LIGHT W/ 2X5 WATTS
LED LAMP WITH BATTERY BACK UP
230 VOLTS | | THREE GANG, 15A, 300V SWITCH |
| | SINGLE-FACE EXIT LIGHT,
2 WATTS AND BATTERY BACK UP | | THREE WAY, 15A, 300V SWITCH |
| | CIRCUIT HOMERUN
NUMBER DENOTES CIRCUIT NO. | | ENCLOSED CIRCUIT BREAKER |
| | CIRCUIT RUN CONCEALED IN WALL
OR CEILING | | 50W FLOODLIGHT LED POLE MOUNTED |
| | CIRCUIT RUN EMBEDDED IN SLAB
OR WALL | | BATTERY OPERATED SMOKE DETECTOR |

PRIVATE LOT

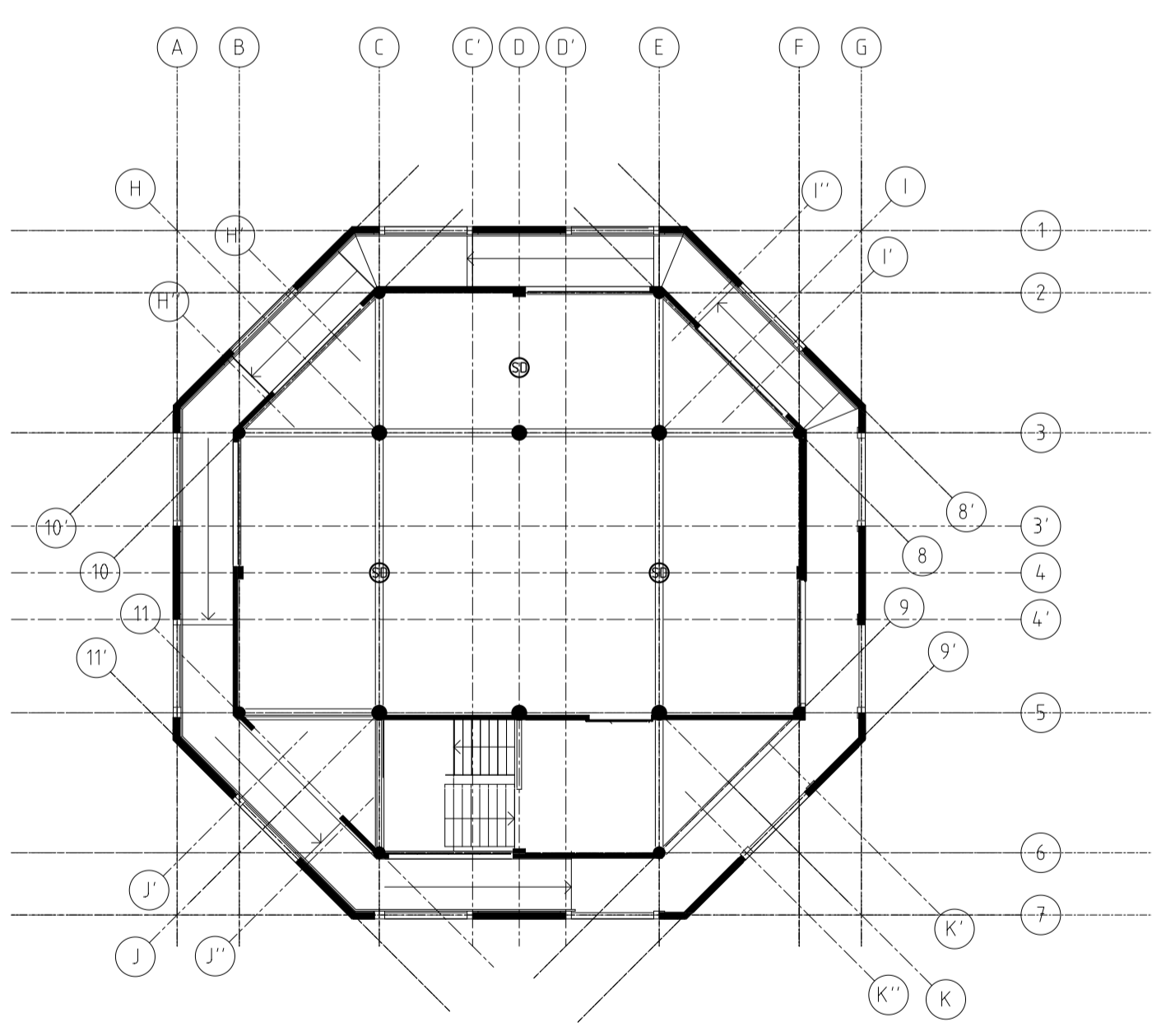


1 SERVICE ENTRANCE LAYOUT
E-01 SCALE 1:200

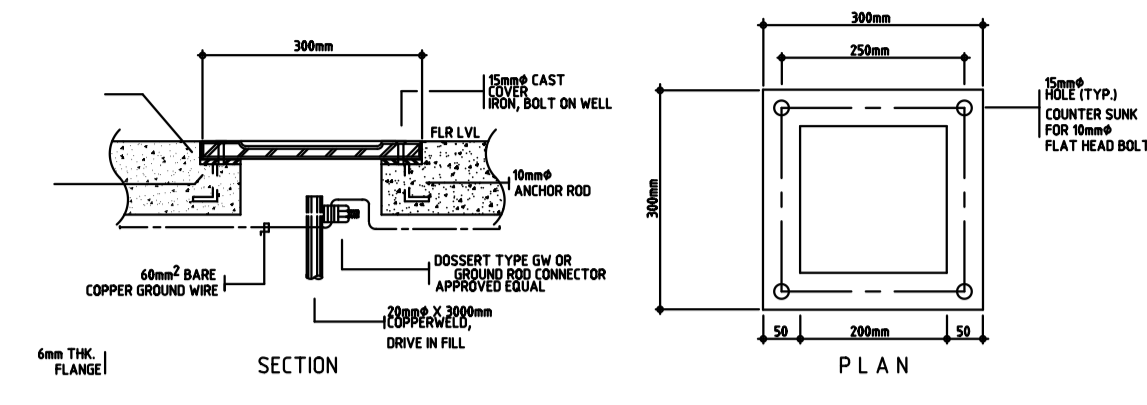
<p>RNFA RN FERRER & ASSOCIATES, INC. PASIG, METRO MANILA TEL. NO. 631-1541 TO 42</p>	ARCHITECT / ENGINEER :	PROJECT / LOCATION :	OWNER :	APPROVED FOR IMPLEMENTATION BY OWNER :	NO.	REVISIONS	DATE	BY	SHEET CONTENT	SHEET NO.
	BENJAMIN N. FERRER PROFESSIONAL ELECTRICAL ENGINEER PRC Reg. No. 1873 PTR No. 0454862 Place of Issue: CITY OF PASIG Date of Issue: JAN 31, 2015	MULTI-PURPOSE CENTER CITY OF BORONGAN, EASTERN SAMAR	IOM/OIM	UNICEF	MARCO BOASSO CHIEF OF MISSION IOM PHILIPPINES DIRECTOR MANILA GLOBAL ADMINISTRATIVE CENTER	1	ISSUED FOR BIDDING	23SEP15	MDS	GENERAL NOTES, LEGEND, SYMBOLS AND SERVICE ENTRANCE LAYOUT
					2	ISSUED FOR CONSTRUCTION	20OCT15	MDS	CHECKED BNF DRAWN MDS FILENAME 2K1404A-E01 APPROVED BNF DATE 11SEP15	



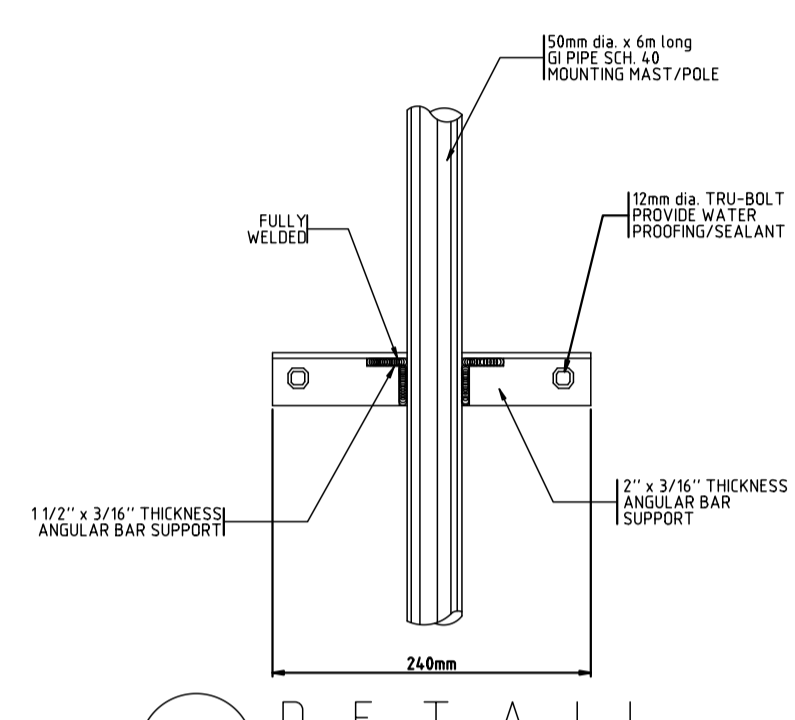
1 GROUND FLOOR SMOKE DETECTOR LAYOUT
SCALE 1:200



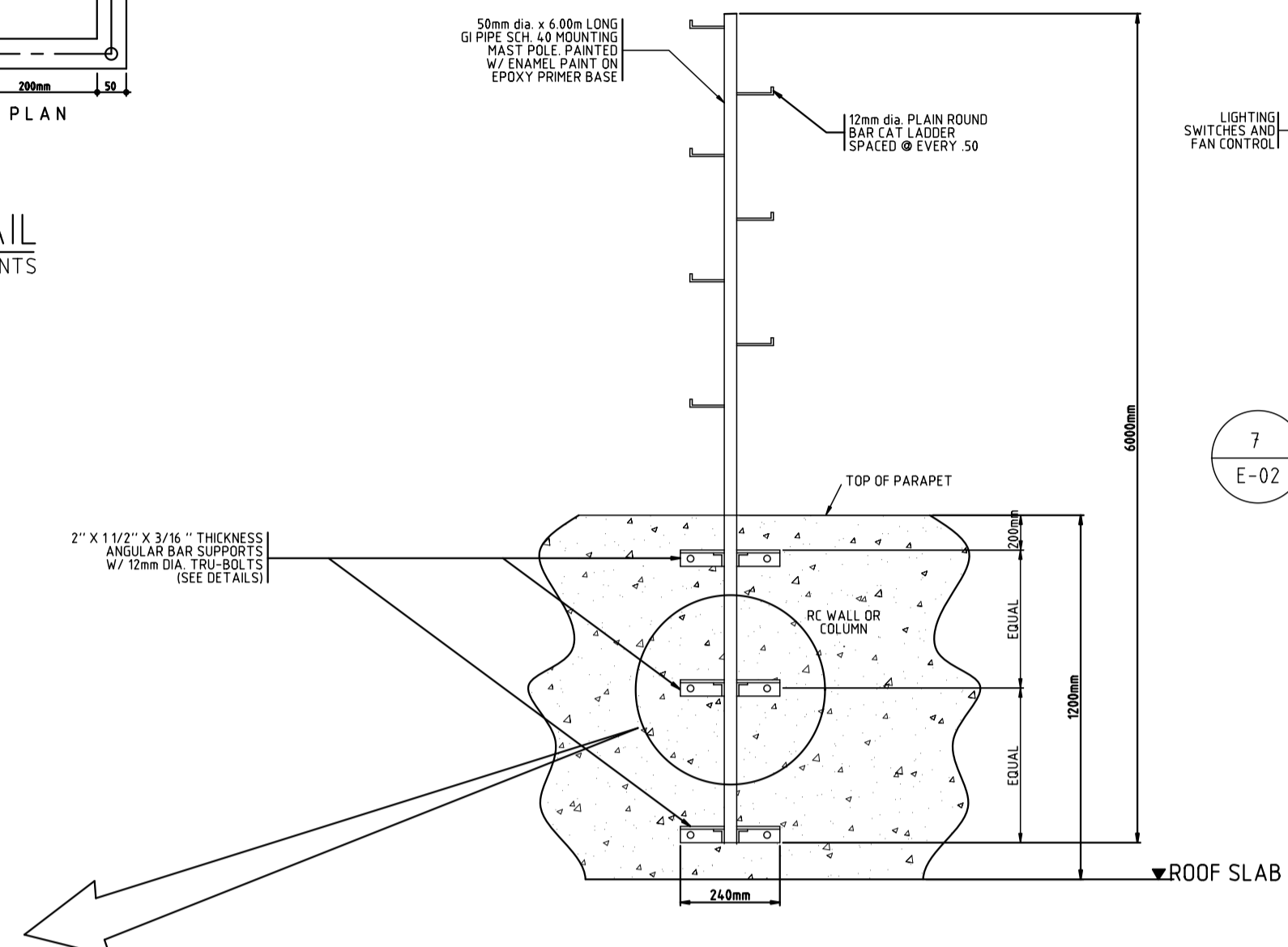
2 SECOND FLOOR SMOKE DETECTOR LAYOUT
SCALE 1:200



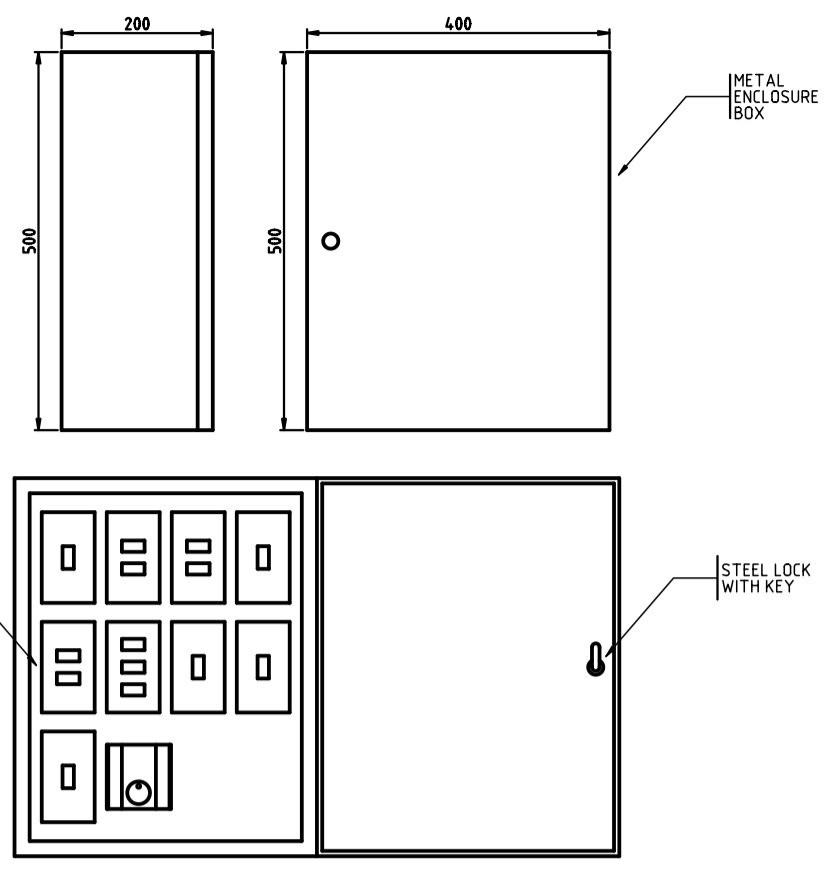
3 GROUND ROD WELL DETAIL
SCALE NTS



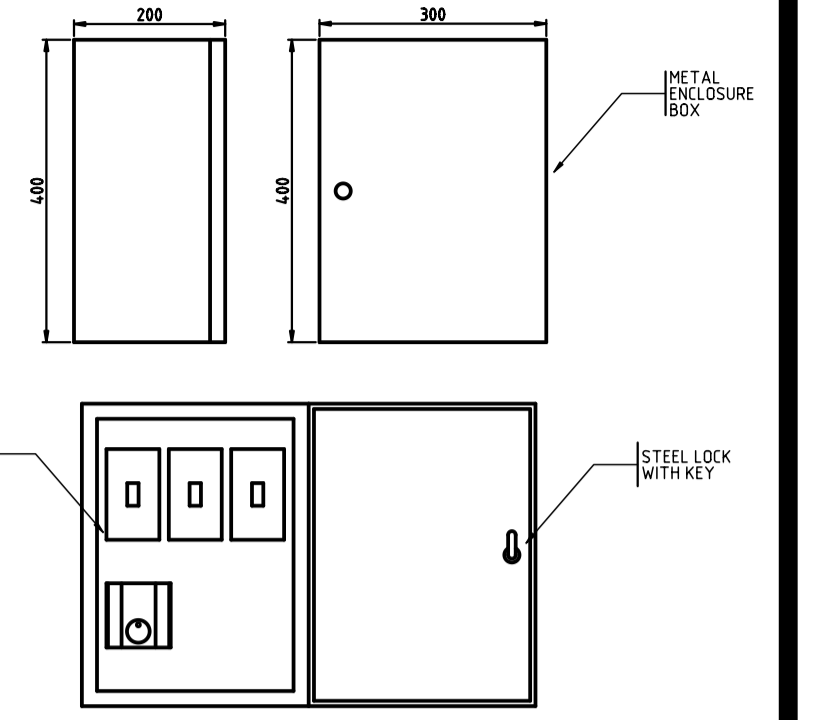
4 D E T A I L
SCALE NTS



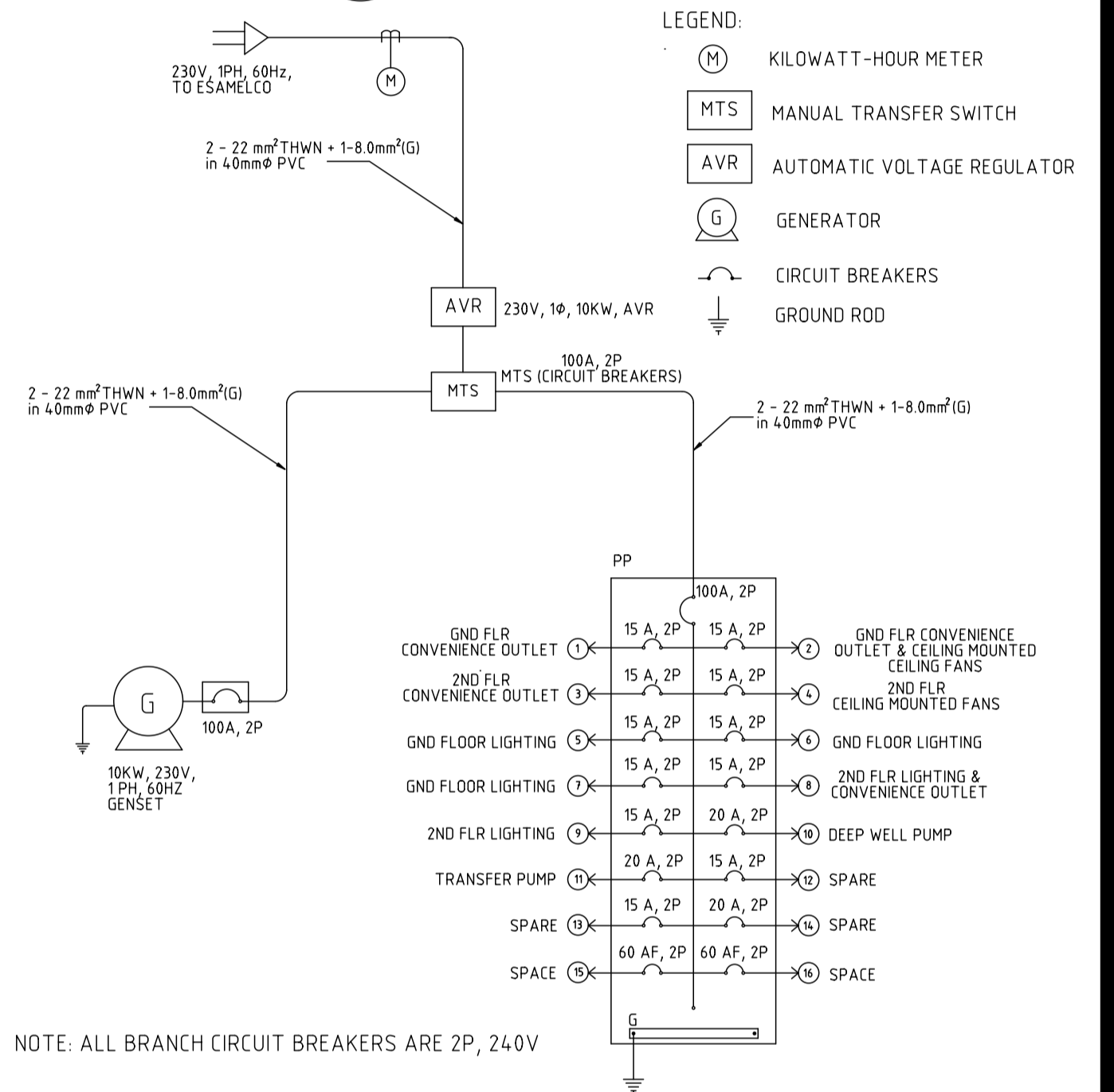
5 LIGHTNING ARRESTER MOUNTING MAST/POLE INSTALLATION DETAILS
SCALE NTS



7 GROUND FLOOR METAL ENCLOSURE BOX FOR SWITCHES DETAIL
SCALE NTS

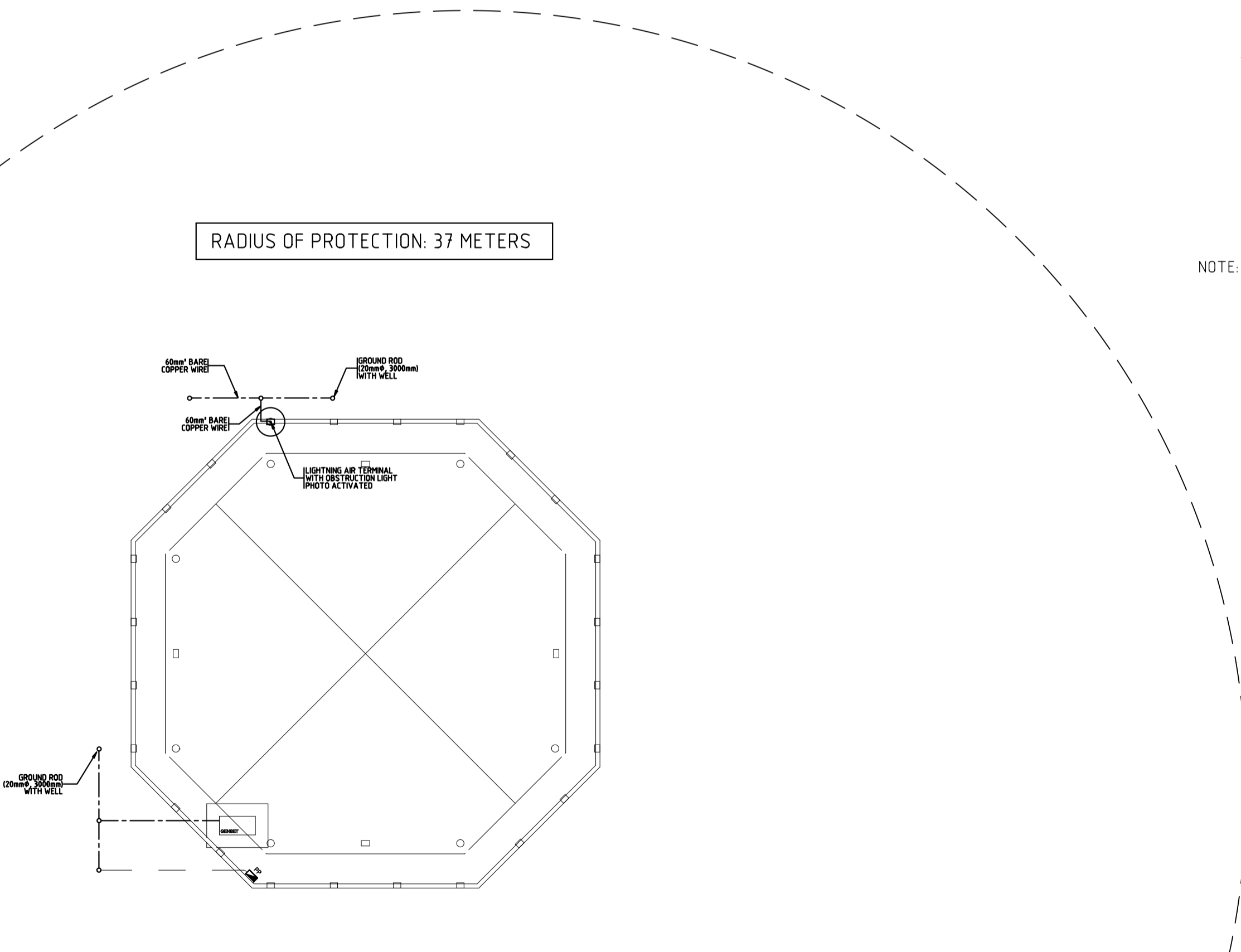


8 SECOND FLOOR METAL ENCLOSURE BOX FOR SWITCHES DETAIL
SCALE NTS



- LEGEND:
- (M) KILOWATT-HOUR METER
 - (MTS) MANUAL TRANSFER SWITCH
 - (AVR) AUTOMATIC VOLTAGE REGULATOR
 - (G) GENERATOR
 - (C) CIRCUIT BREAKERS
 - (GR) GROUND ROD

9 POWER SINGLE LINE DIAGRAM
SCALE NTS



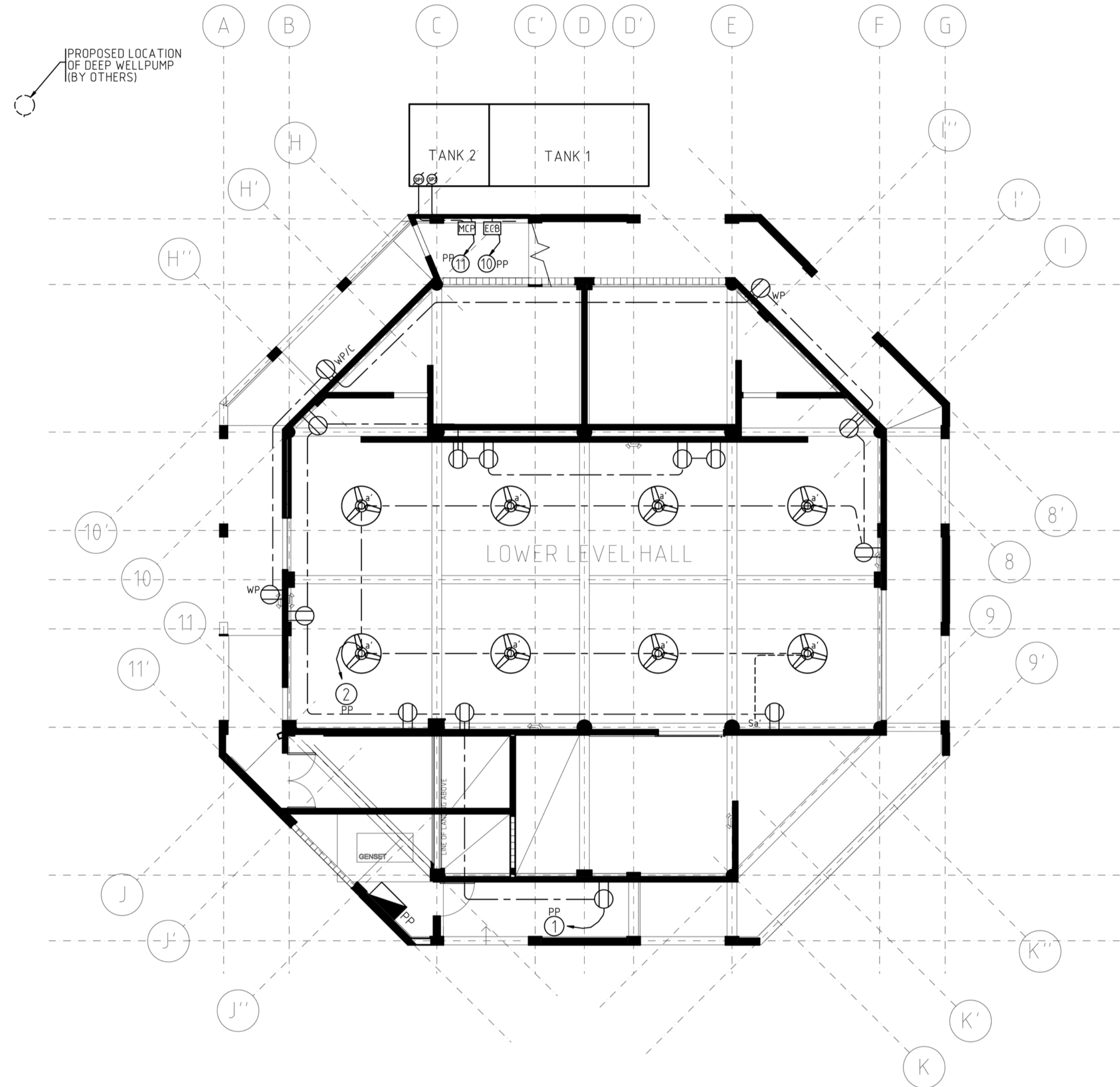
6 LIGHTNING PROTECTION AND GROUNDING LAYOUT
SCALE 1:200

PANEL: PP VOLTAGE 230 V, 1 ϕ , 2-WIRES-G
METER: KAC, HANS: 90 AT, 2P
MOUNTING SURFACE: FEEDER: 2 - 22 mm² THWN + 1-8.0mm² GI in 40mm ϕ PVC

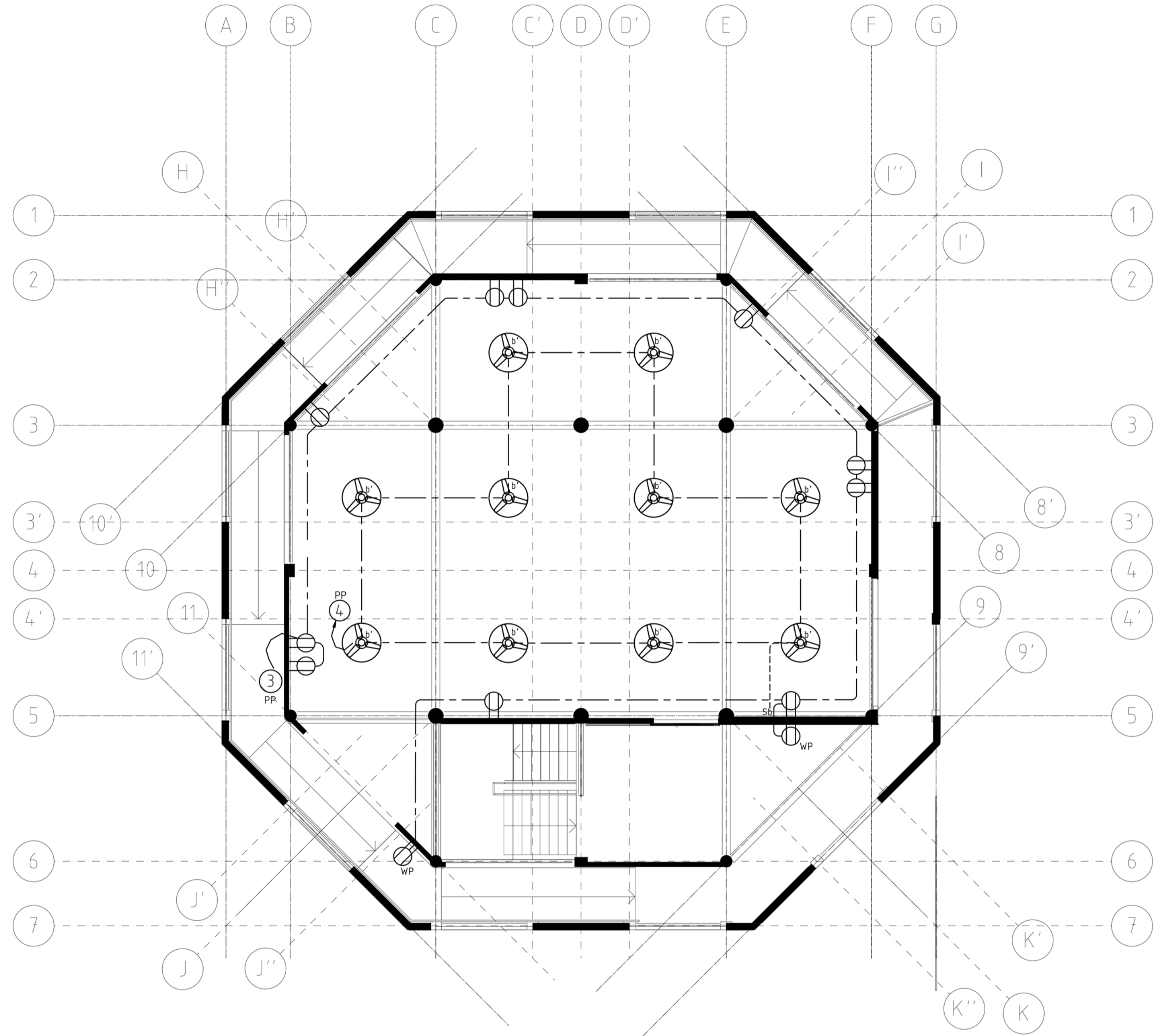
LET. NO.	CB POLE	CB TRIP	LOAD DESCRIPTION	TOTAL KW LOAD	AB	WIRES AND CONDUIT
1	2	ISAT	10 ϕ CONVENIENCE OUTLET + CEILING MOUNTED FANS	1.00	1.00	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
2	2	ISAT	5 ϕ CONVENIENCE OUTLET + CEILING MOUNTED FANS	1.62	1.62	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
3	2	ISAT	10 ϕ CONVENIENCE OUTLET	2.16	2.16	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
4	2	ISAT	CEILING MOUNTED FANS	0.96	0.96	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
5	2	ISAT	4 ϕ 250W LIGHTING + 10 ϕ 15W LITG - 1 LIGHT	0.35	0.35	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
6	2	ISAT	4 ϕ 250W LIGHTING + 10 ϕ 15W LITG - 1 LIGHT + 10 ϕ 15W FLOOR LIGHTS - 1 LIGHT	0.31	0.31	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
7	2	ISAT	5 ϕ CONVENIENCE OUTLET	1.08	1.08	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
8	2	ISAT	5 ϕ CONVENIENCE OUTLET + 2 LIGHT	1.19	1.19	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
9	2	ISAT	14 ϕ 15W LITG	0.22	0.22	2-10 mm ² THWN + ISB in 25 mm ϕ PVC
10	2	2BAT	DEEP WELL PUMP	0.63	0.63	2-15 mm ² THWN + ISB in 25 mm ϕ PVC
11	2	2BAT	TRANSFER PUMP	0.63	0.63	2-15 mm ² THWN + ISB in 25 mm ϕ PVC
12	2	ISAT	SPARE	---	---	---
13	2	ISAT	SPARE	---	---	---
14	2	2BAT	SPARE	---	---	---
15	2	60AF	SPARE	---	---	---
16	2	60AF	SPARE	---	---	---
TOTAL				9.94	10.90	

DEMAND FACTOR: 0.70
DEMAND KW: 7.0
DEMAND AMPS: 22.5

10 LOAD SCHEDULE
SCALE NTS



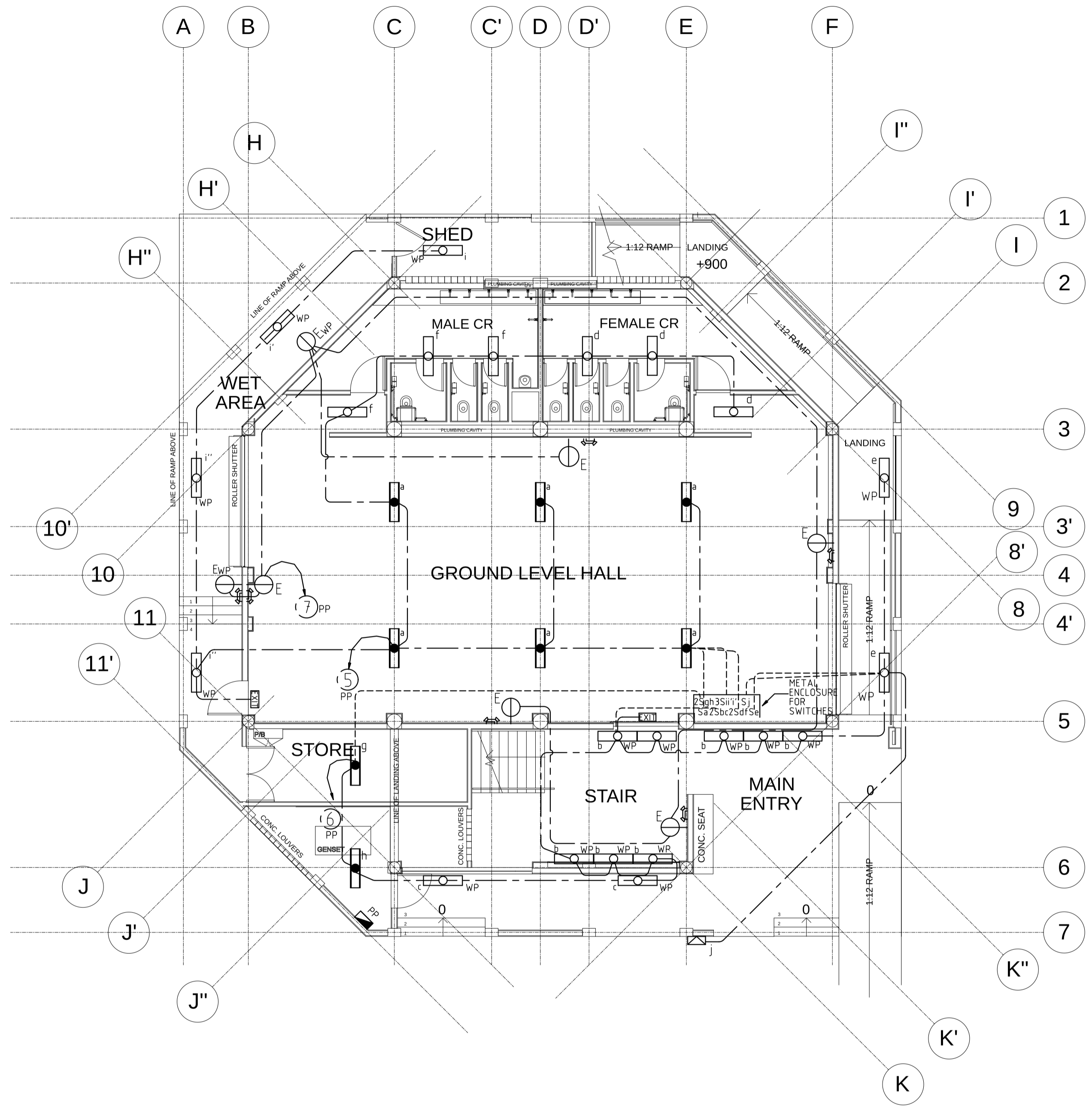
1 GROUND FLOOR POWER & C.O. LAYOUT
 E-03 SCALE 1:100



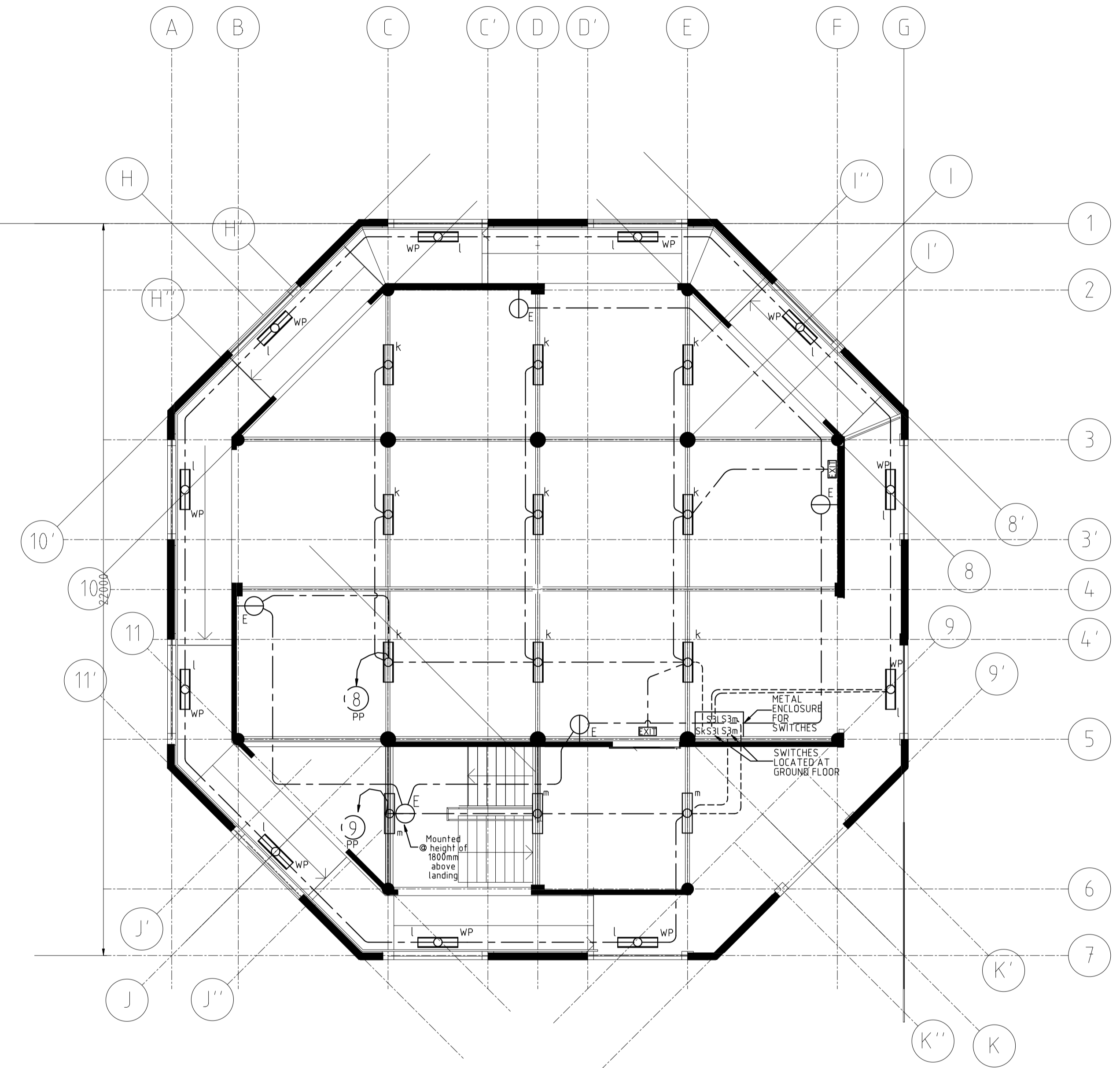
2 SECOND FLOOR POWER & C.O. LAYOUT
 E-03 SCALE 1:100



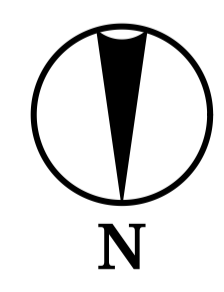
 RN FERRER & ASSOCIATES, INC. PASIG, METRO MANILA TEL. NO. 631-1541 TO 42	ARCHITECT / ENGINEER : BENJAMIN N. FERRER PROFESSIONAL ELECTRICAL ENGINEER	PROJECT / LOCATION : MULTI-PURPOSE CENTER CITY OF BORONGAN, EASTERN SAMAR	OWNER : 	NO. REVISIONS DATE BY NO. REVISIONS DATE BY 1 ISSUED FOR BIDDING 23SEP15 MDS	SHEET CONTENT GROUND AND SECOND FLOOR POWER AND CO LAYOUT	SHEET NO. E03
	PRC Reg. No. PTR No. Place of Issue CITY OF PASIG 1873 0454862 Date of Issue JAN. 31, 2015	CHECKED BNF DRAWN MDS FILENAME APPROVED BNF DATE 11SEP15 ZK1404A-E03	PROJ. NO. 2K1404A			



1 GROUND FLOOR LIGHTING LAYOUT
 E-04 SCALE 1:100



2 SECOND FLOOR LIGHTING LAYOUT
 E-04 SCALE 1:100



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