

PROJECT: PROPOSED DESIGN OF SECURITY QUARTERS AT GELEPHU AIRPORT.
CLIENT: DEPARTMENT OF AIR TRANSPORT.
BUILDING: DINING HALL.

ELECTRICAL DRAWINGS

SUBMITTED BY:

Gyaltshen consultancy



**ROYAL GOVERNMENT OF BHUTAN
CIVIL AVIATION DEPARTMENT**

NOTE:
-ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE
-ALL RELATIVE LEVELS ARE IN METERS UNLESS SPECIFIED OTHERWISE
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-MINOR ADJUSTMENTS NEED TO BE CARRIED OUT ON SITE TO MATCH WITH EXISTING BUILDING

Legend

| No. | Revision | Date |
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Client
Royal Government of Bhutan Civil Aviation Department
Aviation Planners & Engineers
Leading Edge Aviation Planning Professionals
Civil Engineering Consultant
Gyaltshen Consultancy

Project Title
GELEPHU DOMESTIC AIRPORT
DESIGN & SUPERVISION

DESIGN OF SECURITY
QUARTERS

Drawing Title
DINING & KITCHEN

ELECTRICAL LEGEND

| | |
|---------------------|-----------------------|
| Scale | NTS |
| Date | SEPT. 1ST 2016 |
| Drawn / Designed By | P. Thinley |
| Drawing Number | GEL AIRPORT DH EI- 01 |
| Rev | R0 |
| LEAPP Project Code | ---- |

ELECTRICAL LEGEND

- 

T/L FITTING TMC-21/136 for 1 x 40W TUBE ROD BOX TYPE) - BSB APPD.
- 

SURFACE MOUNTED SPECIAL DRUMLITE for 1 x CFL 11W - BSB APPD.
- 

BRASS ANGLE HOLDER for 1x35W CFL
- 

CEILING FAN 1200MM SWEEP 1x60W - ORIENT - BSB APPD.
- 

1/2 GANG MODULAR 6A LIGHT SWITCH CPL - GENIUS/Freedom -GL/COMPAC - BSB APPD.
1200CM HEIGHT from PPL.
- 

3/4 GANG MODULAR 6A LIGHT SWITCH CPL - GENIUS/Freedom -GL/COMPAC - BSB APPD.
1200CM HEIGHT from PPL.
- 

CEILING FAN REGULATOR 6A CPL - GENIUS/Freedom -GL/COMPAC - APPD.
1200CM HEIGHT from PPL.
- 

6PIN 6A MODULAR SWITCH SOCKET COMBINED 1x100W CPL - GENIUS/Freedom-GL/COMPAC - BSB APPD
35CM HEIGHT from PPL.
- 

6PIN 16A MODULAR SWITCH SOCKET COMBINED 1x2000W CPL - GENIUS/Freedom-GL/COMPAC - BSB APPD
35CM HEIGHT from PPL.
- 

32A 3-PHASE INDUSTRIAL POWER SOCKET WITH PLUG 1x3000W WITH 63A TPN MCB - GENIUS/Freedom-GL/COMPAC - BSB APPD.
150CM HEIGHT from PPL.
- 

RJ-11 TELEPHONE JACK CPL - GENIUS/Freedom-GL/COMPAC - BSB APPD.
35CM HEIGHT from PPL
- 

TV SOCKET CPL - GENIUS/Freedom-GL/COMPAC - BSB APPD
35CM HEIGHT from PPL
- 

MCPB / SDB



ROYAL GOVERNMENT OF BHUTAN
CIVIL AVIATION DEPARTMENT

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Civil Engineering Consultant
Gyaltshen Consultancy

Project Title

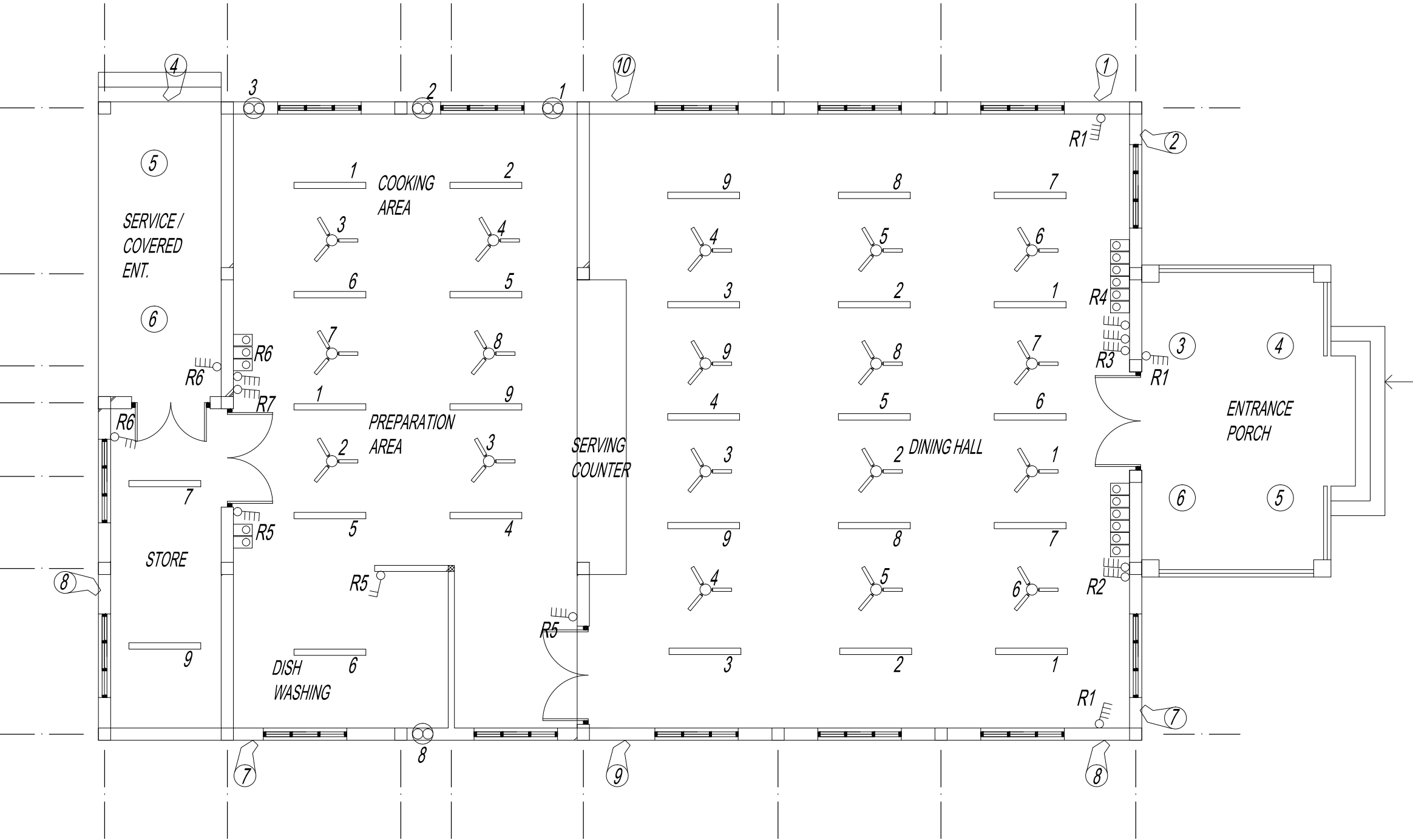
GELEPHU DOMESTIC AIRPORT
DESIGN & SUPERVISION

DESIGN OF SECURITY
QUARTERS

Drawing Title

DINING & KITCHEN
GROUND FLOOR PLAN
LIGHTING LAYOUT

| | |
|-----------------------|----------------|
| Scale | NTS |
| Date | SEPT. 1ST 2016 |
| Drawn / Designed By | P. Thinley |
| Drawing Number | Rev |
| GEL AIRPORT DH EI- 02 | R0 |
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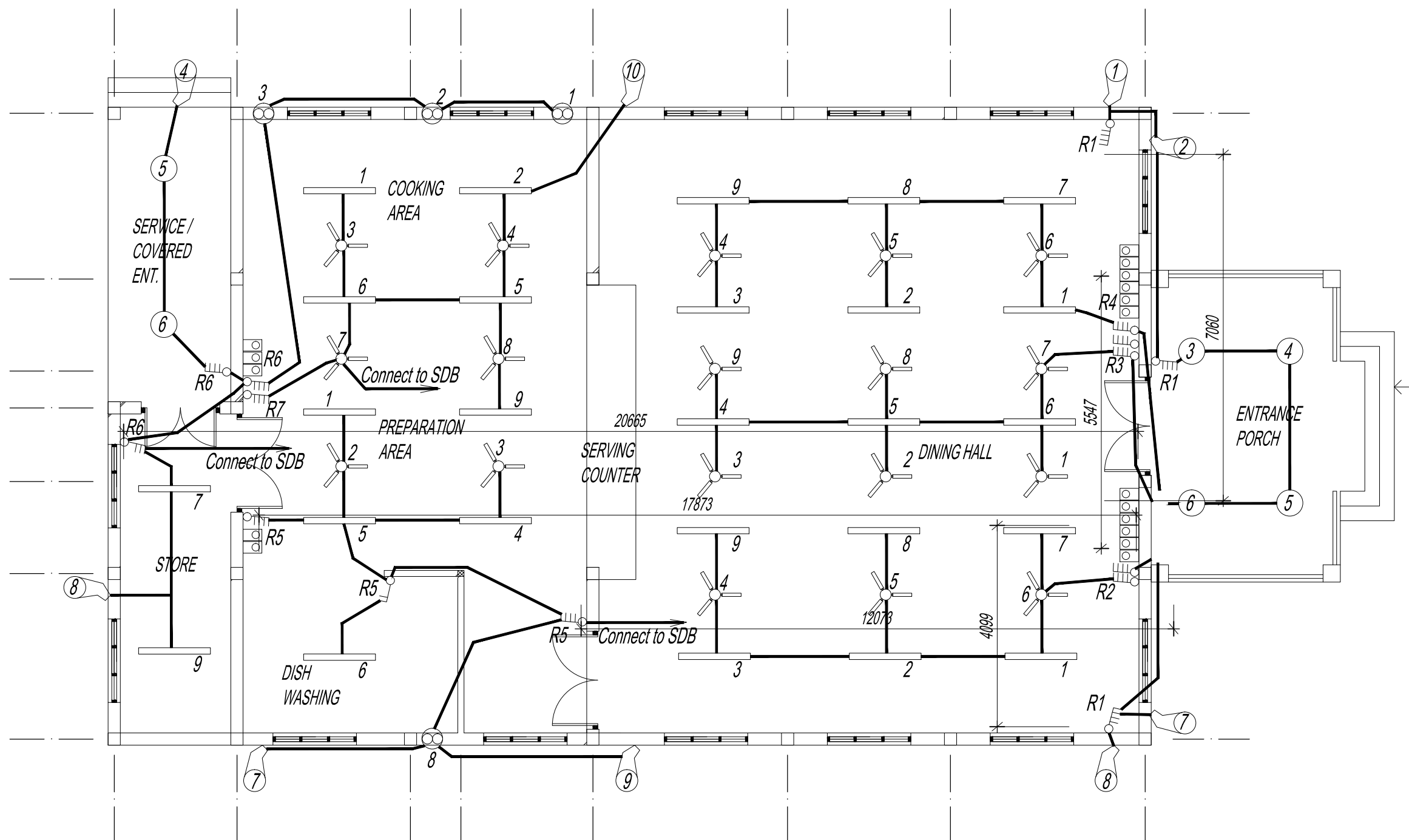
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| Client | Royal Government of Bhutan Civil Aviation Department |
| Aviation Planners & Engineers | Leading Edge Aviation Planning Professionals |
| Civil Engineering Consultant | Gyaltshen Consultancy |
| Project Title | GELEPHU DOMESTIC AIRPORT DESIGN & SUPERVISION |

DESIGN OF SECURITY
QUARTERS

Drawing Title

DINING & KITCHEN
GROUND FLOOR PLAN
LIGHT PIPING LAYOUT

| | |
|---------------------|-----------------------|
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Civil Engineering Consultant
Gyaltshen Consultancy

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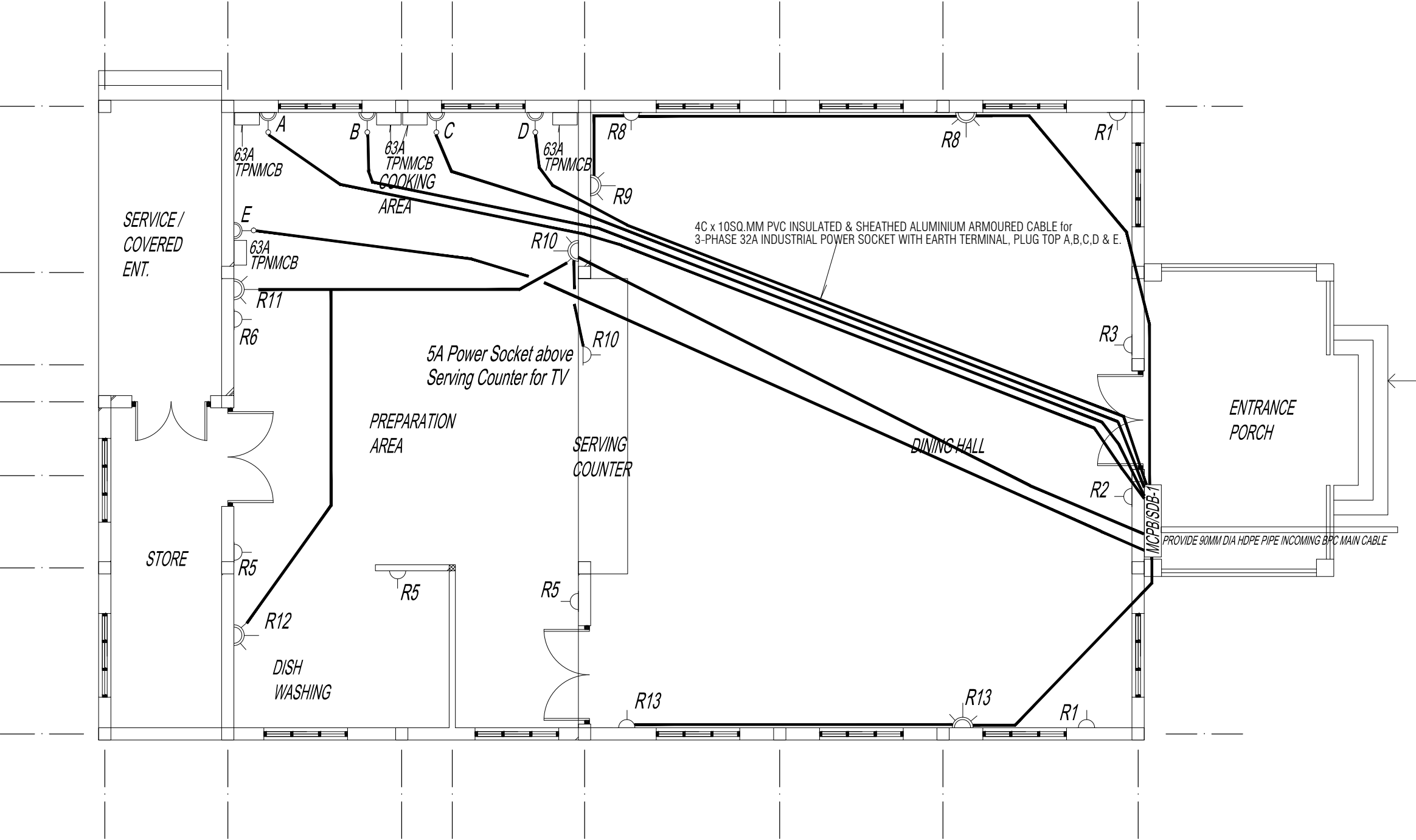
GELEPHU DOMESTIC AIRPO
DESIGN & SUPERVISION

DESIGN OF SECURITY
QUARTERS

Drawing Title

DINING & KITCHEN
GROUND FLOOR PLAN
POWER PIPING LAYOUT

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|---------------------|-----------------------|
| Scale | NTS |
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[illegible]

GELEPHU DOMESTIC AIRPORT DESIGN & SUPERVISION

Drawing Title

SINGLE LINE DIAGRAM
CIRCUIT REF. OUTGOING

LEAPP Project Code

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for SDB

| | |
|-----|-------|
| R1 | 384 |
| R2 | 520 |
| R3 | 520 |
| R4 | 420 |
| R5 | 770 |
| R6 | 512 |
| R7 | 491 |
| R8 | 2100 |
| R9 | 2000 |
| R10 | 2100 |
| R11 | 2000 |
| R12 | 2000 |
| R13 | 2000 |
| R14 | SPARE |
| | 15817 |



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| Project Title |

GELEPHU DOMESTIC AIRPORT
DESIGN & SUPERVISION

DESIGN OF SECURITY
QUARTERS

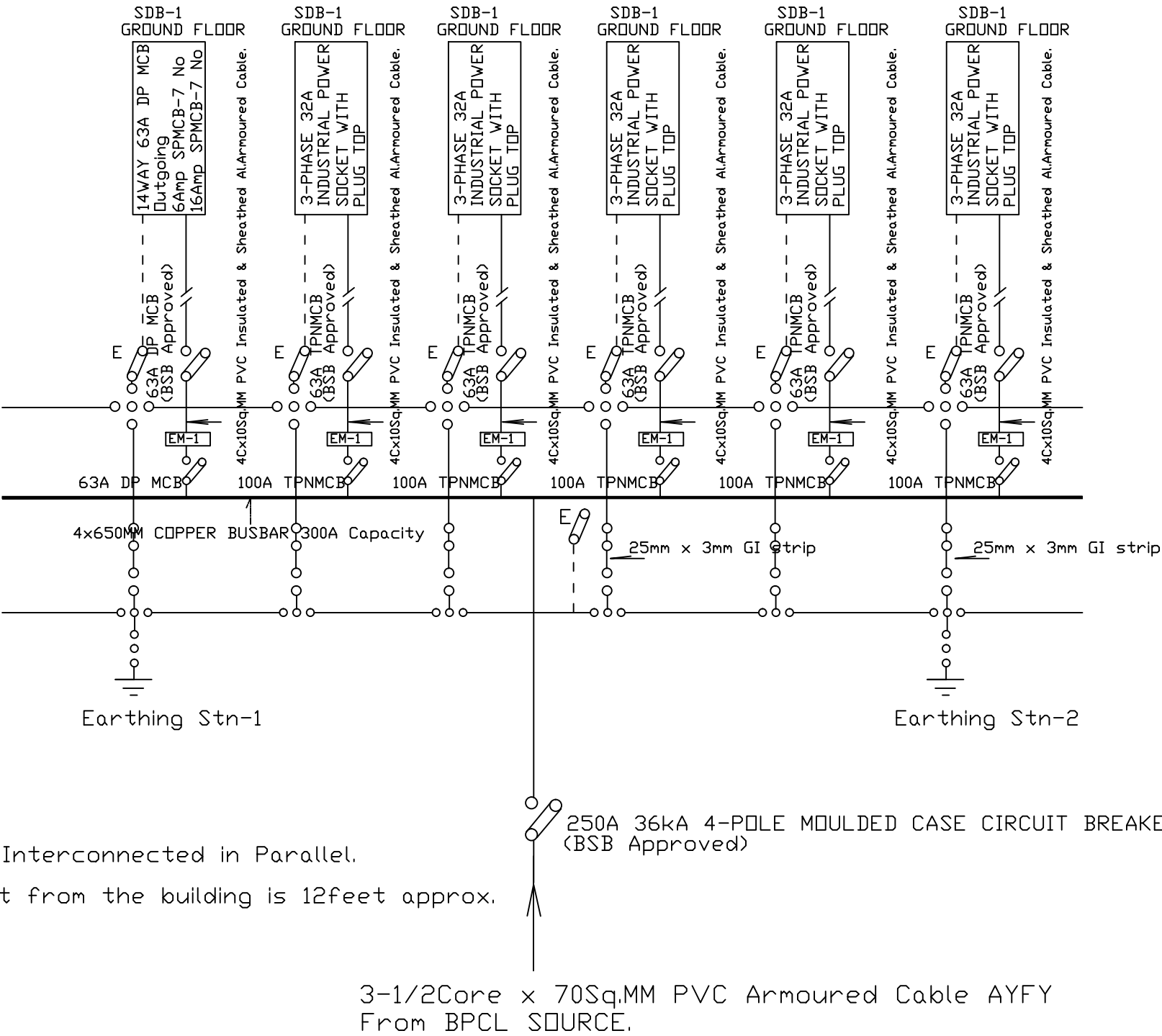
Drawing Title

DINING & KITCHEN

MAIN CONTROL PANEL BOARD

| | |
|---------------------|-----------------------|
| Scale | NTS |
| Date | SEPT. 1ST 2016 |
| Drawn / Designed By | P. Thinley |
| Drawing Number | GEL AIRPORT DH EI- 06 |
| LEAPP Project Code | ----- |
| Rev | R0 |

MAIN CONTROL PANEL BOARD



- NOTE:
1. All the Earthing Stations are Interconnected in Parallel.
 2. The distance of Earthing point from the building is 12feet approx.

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DESIGN OF SECURITY
QUARTERS

Drawing Title

DINING & KITCHEN

EARTHING PLATE DETAIL

Scale

NTS

Date

SEPT. 1ST 2016

Drawn / Designed By

P. Thinley

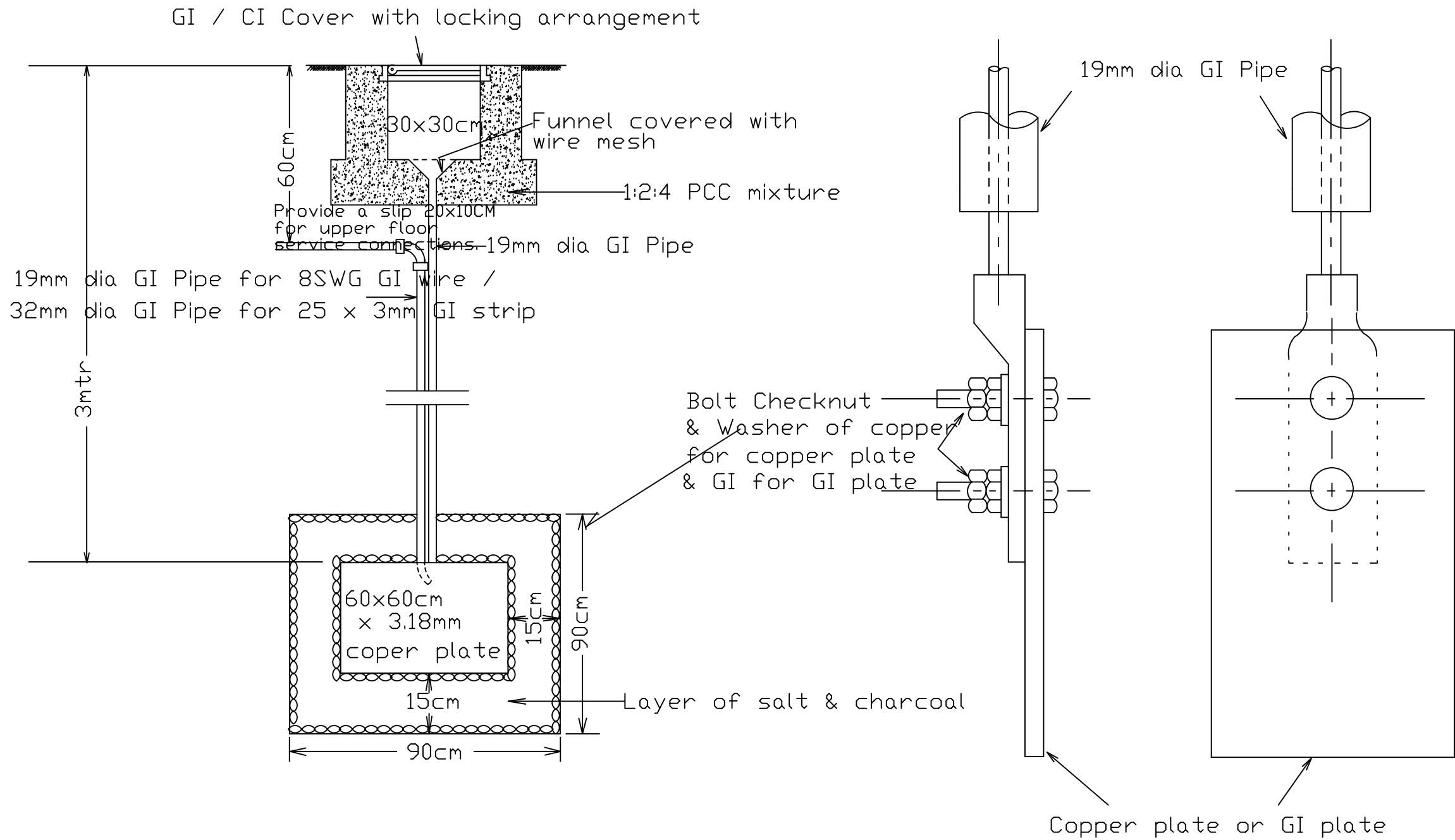
Drawing Number

GEL AIRPORT DH EI- 07

Rev

R0

LEAPP Project Code



EARTHING PLATE DIAGRAM



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DESIGN & SUPERVISION

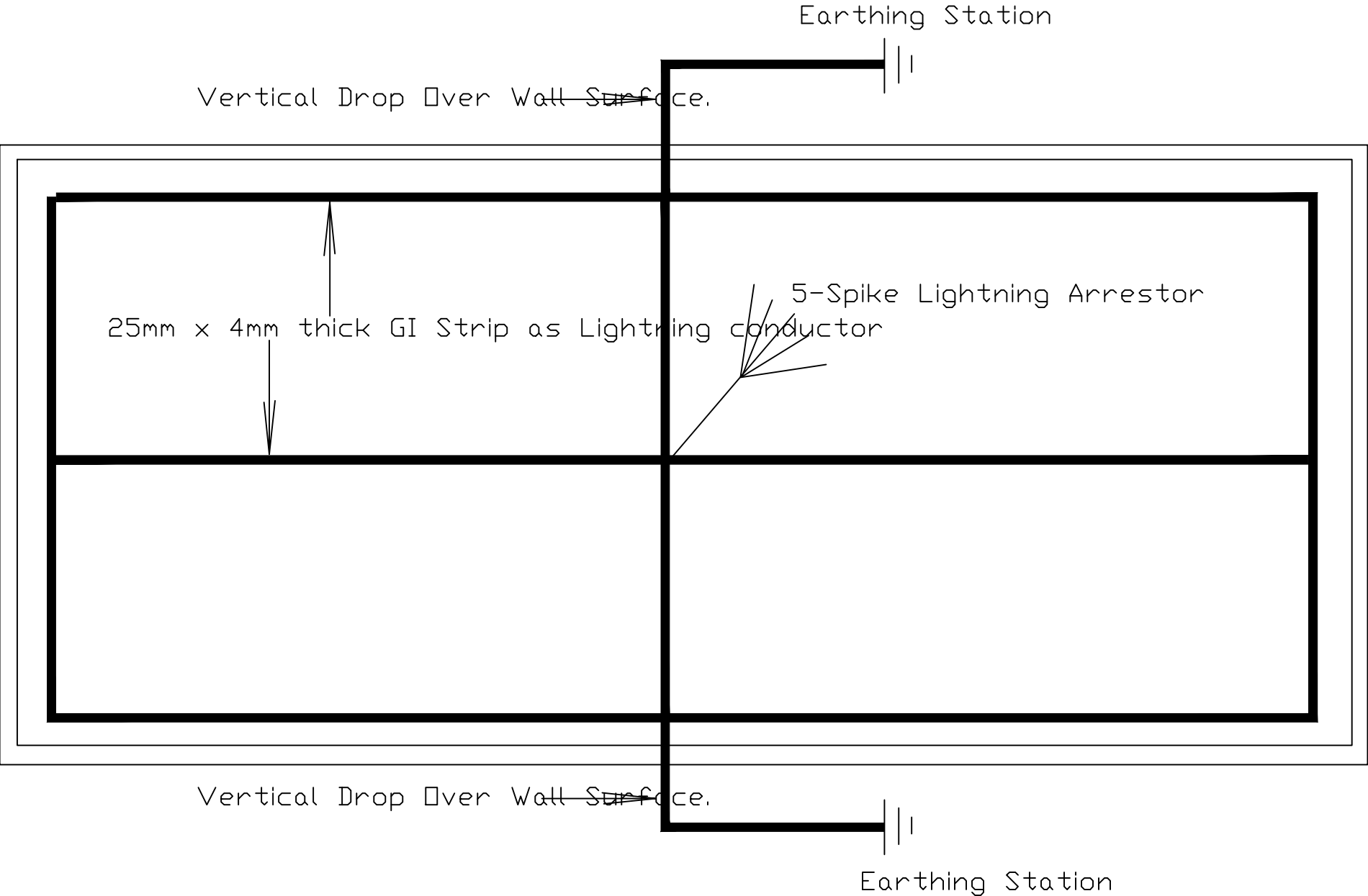
DESIGN OF SECURITY
QUARTERS

Drawing Title

DINING & KITCHEN

LIGHTNING ARRESTOR DETAIL

| | | |
|---------------------|-----------------------|-----|
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- NOTE:
1. THE GI STRIP OF 25MM x 4MM MUST BE LAID ABOVE THE ROOF AS SHOWN HERE.
 2. WHEREVER THERE ARE JOINTS IT MUST BE EITHER WELDED OR MADE TIGHT WITH NUT & BOLT.
 3. THE VERTICAL DROP MUST BE MADE OVER THE WALL SURFACE TO BE CONNECTED TO EARTHING STATION.
 4. AT THE CORNICE CROSSING PROVIDE VERTICAL SLEEVE OF 40MM x 10MM AT THE TIME OF MAKING CORNICE.
 5. MINIMUM TWO EARTHING MUST BE MADE FOR LIGHTNING ARRESTOR.
 6. EARTHING MUST BE INTERCONNECTED TO EACH OTHER WITHIN THE LIGHTNING ARRESTOR EARTHING ONLY.
 7. IT MUST BE INDEPENDENT AND NOT TO BE CONNECTED WITH ELECTRICAL EARTHING.