

PROJECT: PROPOSED DESIGN OF SECURITY QUARTERS AT GELEPHU AIRPORT.  
CLIENT: DEPARTMENT OF AIR TRANSPORT.  
BUILDING: OFFICER'S RESIDENCE.

# ELECTRICAL DRAWINGS

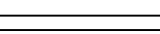


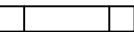


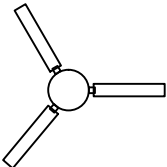










SUBMITTED BY:

**Gyaltshen consultancy**



**ROYAL GOVERNMENT OF BHUTAN  
CIVIL AVIATION DEPARTMENT**

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.
	SLOTTED WALL BRACKET GLASS GLOBE for 1 x CFL 11W (DECON) - BSB APPD
	MIRRORLITE FITTING for 2 x CFL 11W (DECON) - BSB APPD.
	BRASS ANGLE HOLDER for 1x35W CFL
	MUSICAL CALL BELL 1x40W
	CEILING FAN 1200MM SWEEP 1x60W - ORIENT - BSB APPD.
	CALL BELL PUSH - 120CM HEIGHT from PPL.
	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.
	6PIN 16A MODULAR SWITCH SOCKET COMBINED 1x2000W CPL - 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  
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NOTE:  
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-MINOR ADJUSTMENTS NEED TO BE CARRIED OUT ON SITE TO MATCH WITH EXISTING BUILDING

Legend

No.	Revision	Date

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  
OFFICER'S RESIDENCE  
GROUND FLOOR PLAN  
LIGHTING LAYOUT

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



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CIVIL AVIATION DEPARTMENT

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Aviation Planners & Engineers  
Leading Edge Aviation Planning Professionals  
Civil Engineering Consultant  
Gyaltshen Consultancy

Project Title

GELEPHU DOMESTIC AIRPORT  
DESIGN & SUPERVISION

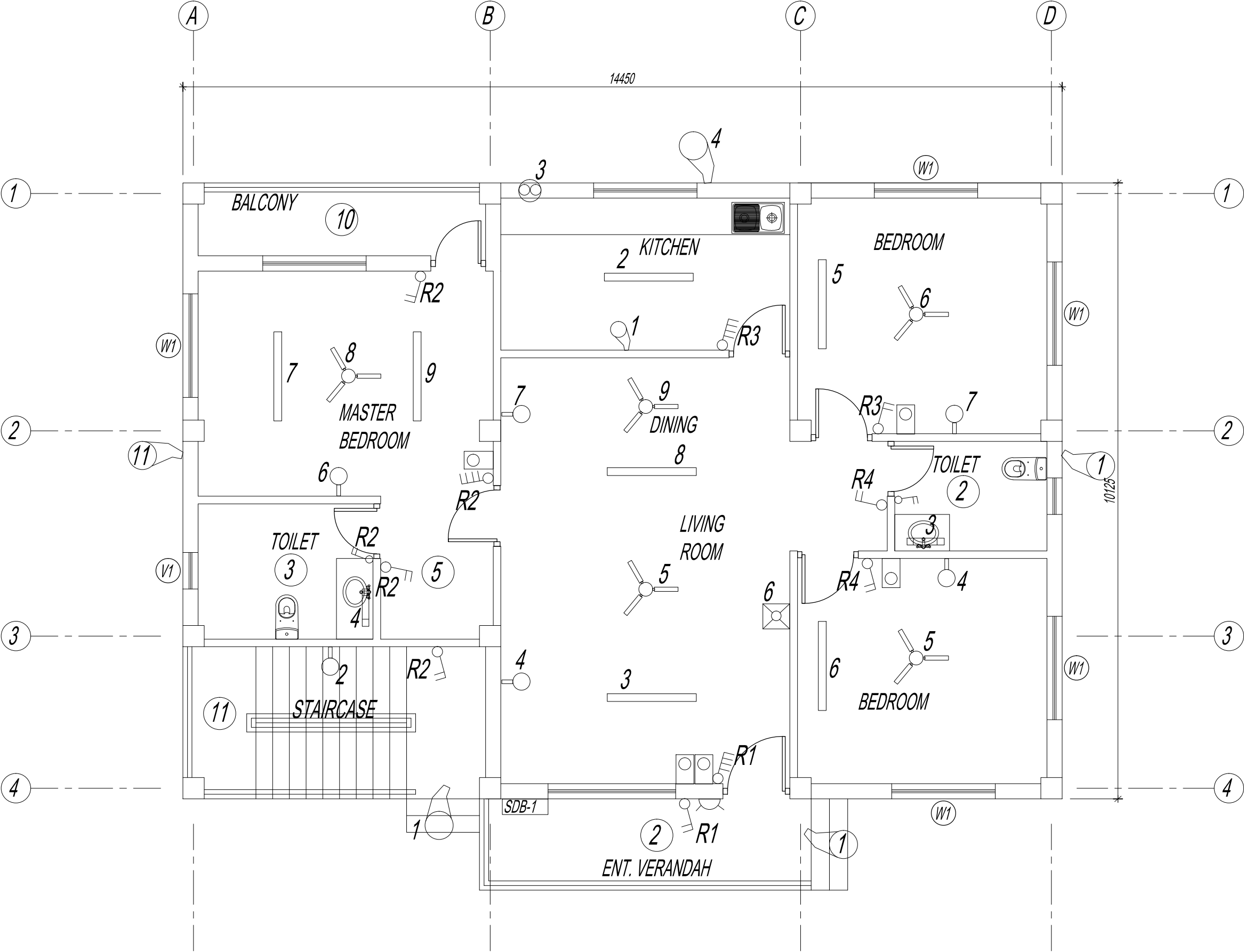
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
GROUND FLOOR PLAN

LIGHTING LAYOUT

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-02
LEAPP Project Code	-----



NOTE:

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- THE CONSULTANTS/SUPERVISION TEAM
- MINOR ADJUSTMENTS NEED TO BE CARRIED OUT ON SITE TO MATCH WITH EXIS
- BUILDING

Legend

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Client

Royal Government of Bhutan Civil Aviation Depart

Aviation Planners &amp; Engineers

## Leading Edge Aviation Planning Professionals

Civil Engineering Consultant

Gyaltshen Consultancy

Project Title
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## GELEPHU DOMESTIC AIRPORT DESIGN & SUPERVISION

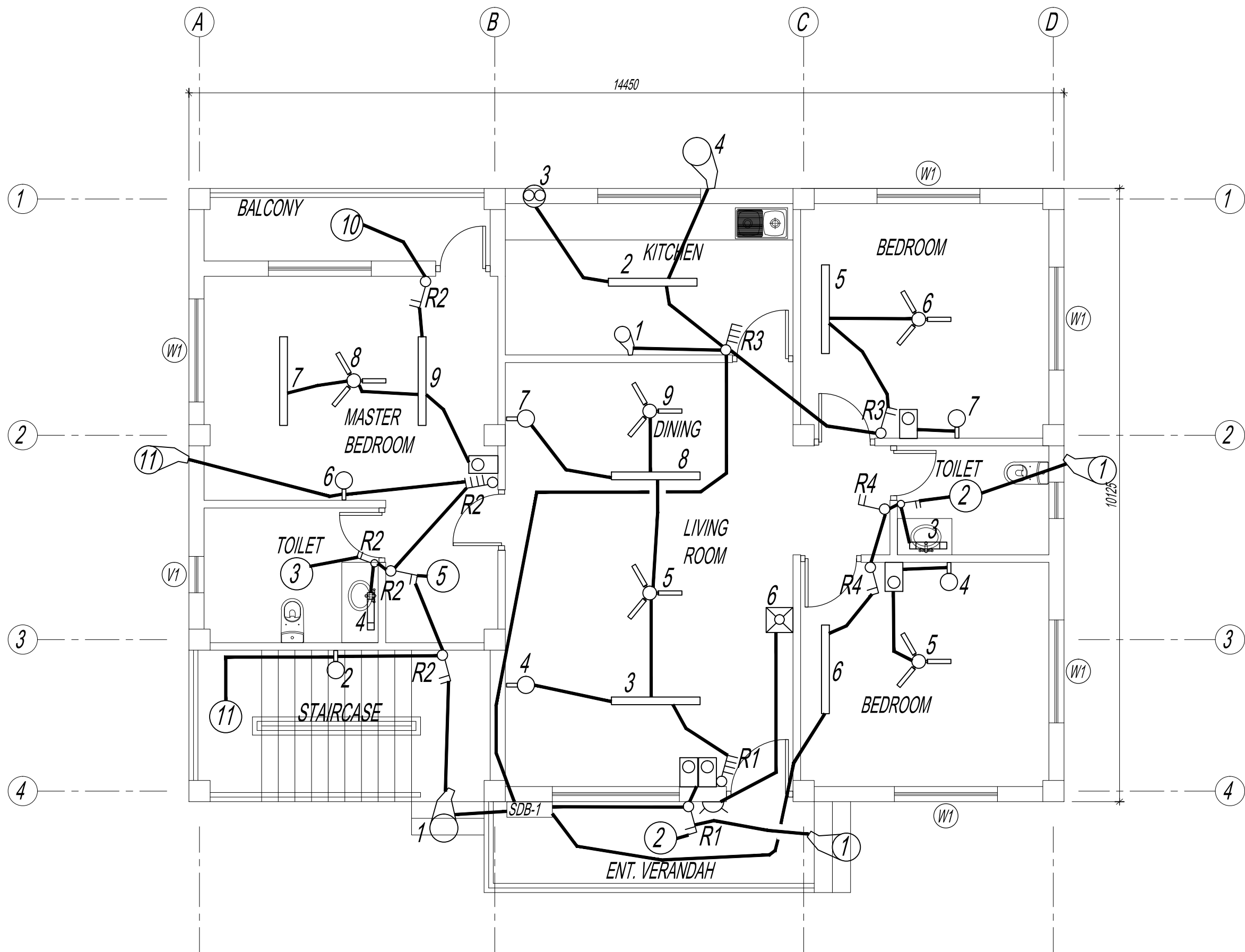
## DESIGN OF SECURITY QUARTERS.

Drawing Title

## OFFICER'S RESIDENCE GROUND FLOOR PLAN

## LIGHT PIPING LAYOUT

Scale	NTS	
Date	SEPT. 1ST 2016	
Drawn / Designed By	p. Thinley	
Drawing Number		Rev
GEL AIRPORT OR EL-03		R0
LEAPP Project Code		





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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

OFFICER'S RESIDENCE  
GROUND FLOOR PLAN

POWER PIPING LAYOUT

Scale NTS

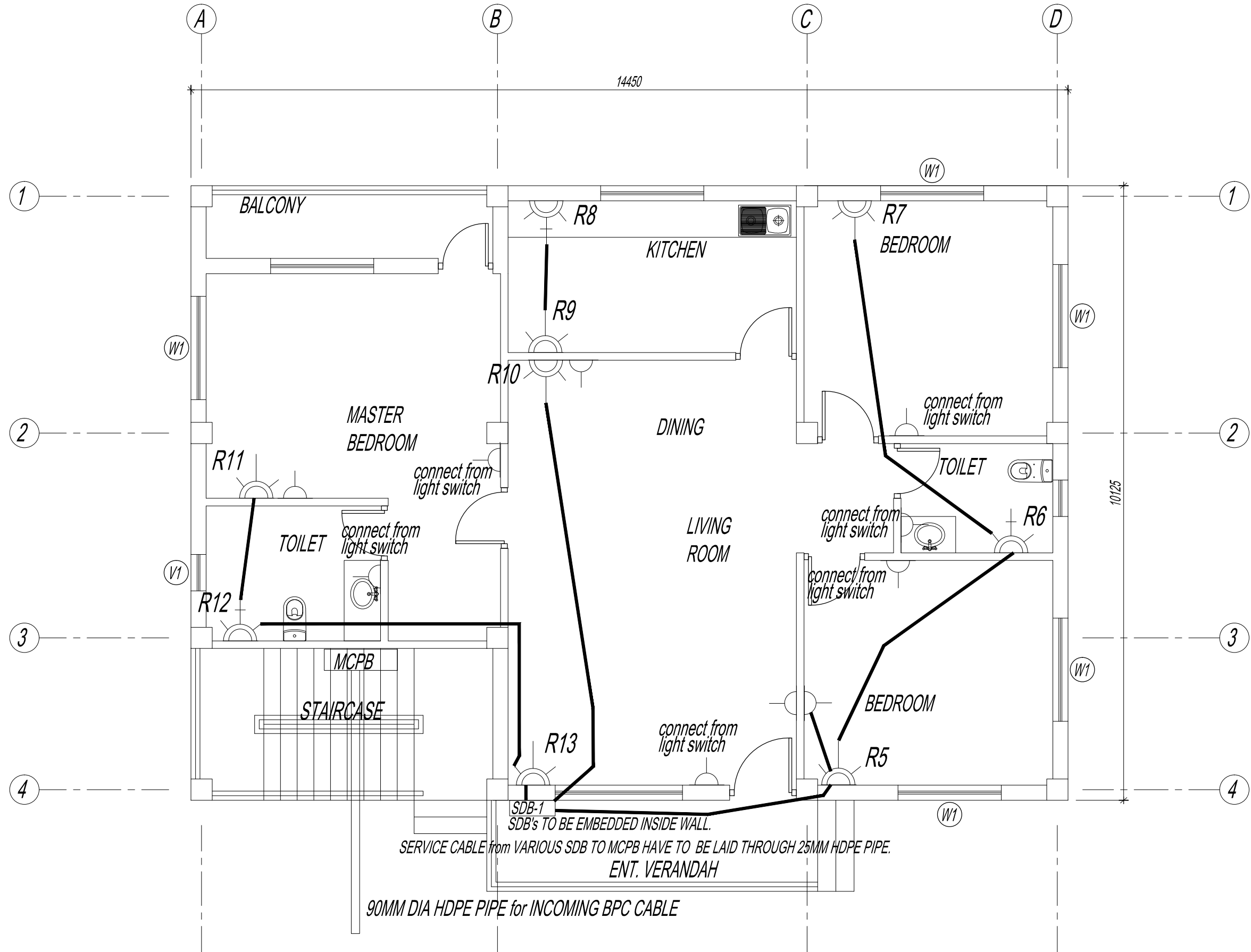
Date SEPT. 1ST 2016

Drawn / Designed By P. Thinley

Drawing Number  
GEL AIRPORT OR EL-04

LEAPP Project Code

Rev R0





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CIVIL AVIATION DEPARTMENT

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Aviation Planners & Engineers  
Leading Edge Aviation Planning Professionals  
Civil Engineering Consultant  
Gyaltshen Consultancy

Project Title

GELEPHU DOMESTIC AIRPORT  
DESIGN & SUPERVISION

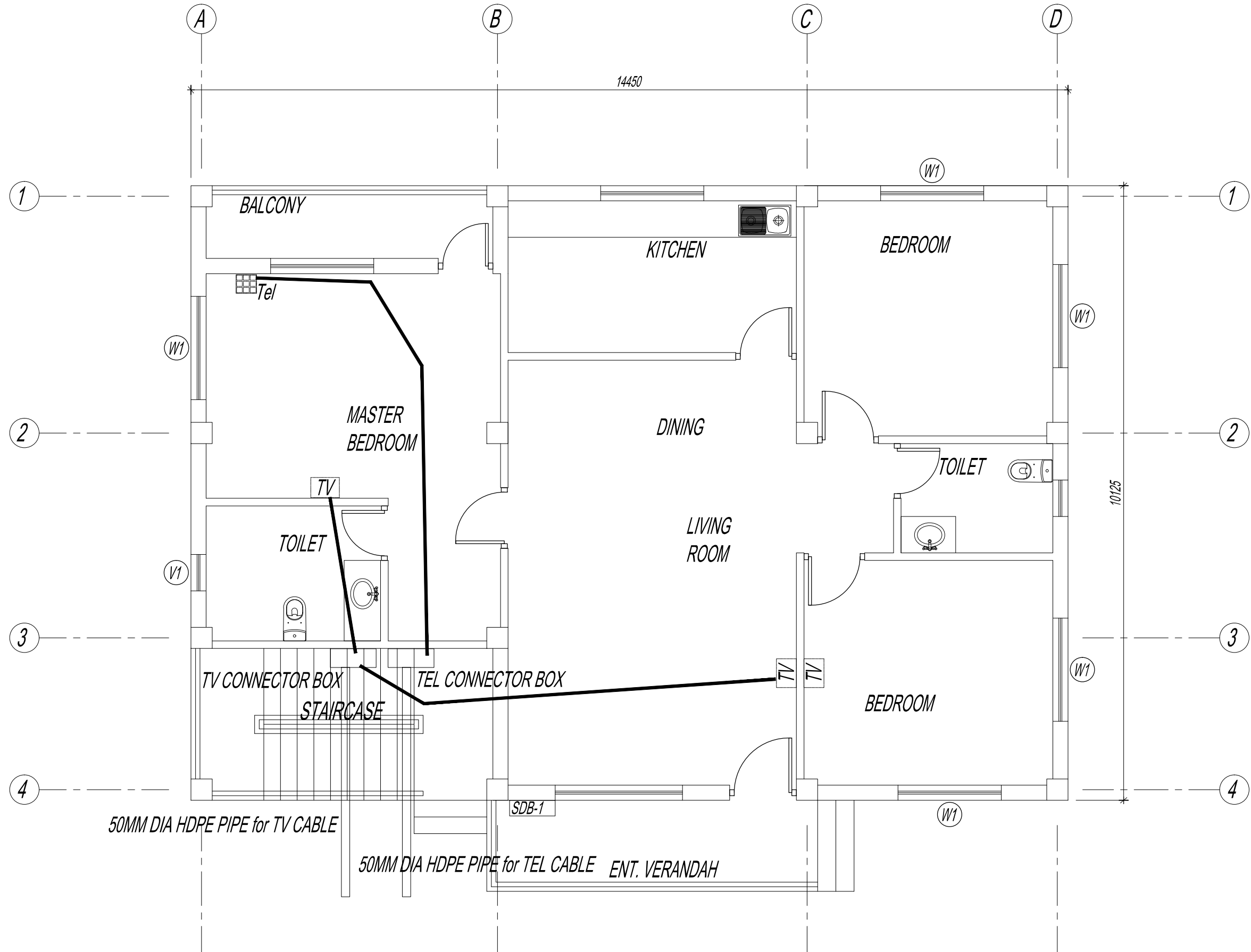
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
GROUND FLOOR PLAN

TV PIPING LAYOUT

Scale	NTS	Rev
Date	SEPT. 1ST 2016	R0
Drawn / Designed By	P. Thinley	
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LEAPP Project Code	-----	





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CIVIL AVIATION DEPARTMENT

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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

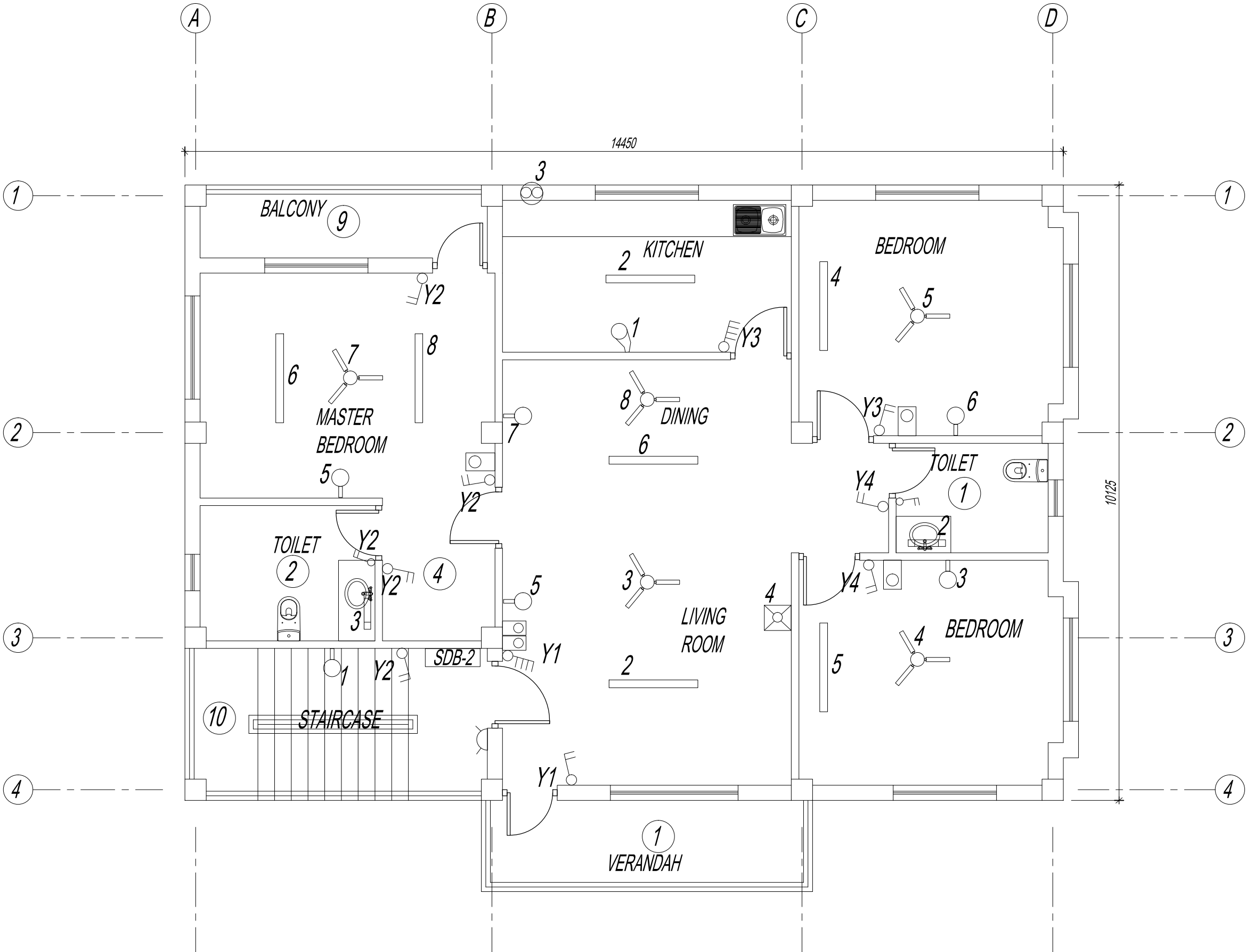
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
FIRST FLOOR PLAN

LIGHTING LAYOUT

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-06
LEAPP Project Code	-----





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Aviation Planners & Engineers  
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Civil Engineering Consultant  
Gyaltshen Consultancy

Project Title

GELEPHU DOMESTIC AIRPORT  
DESIGN & SUPERVISION

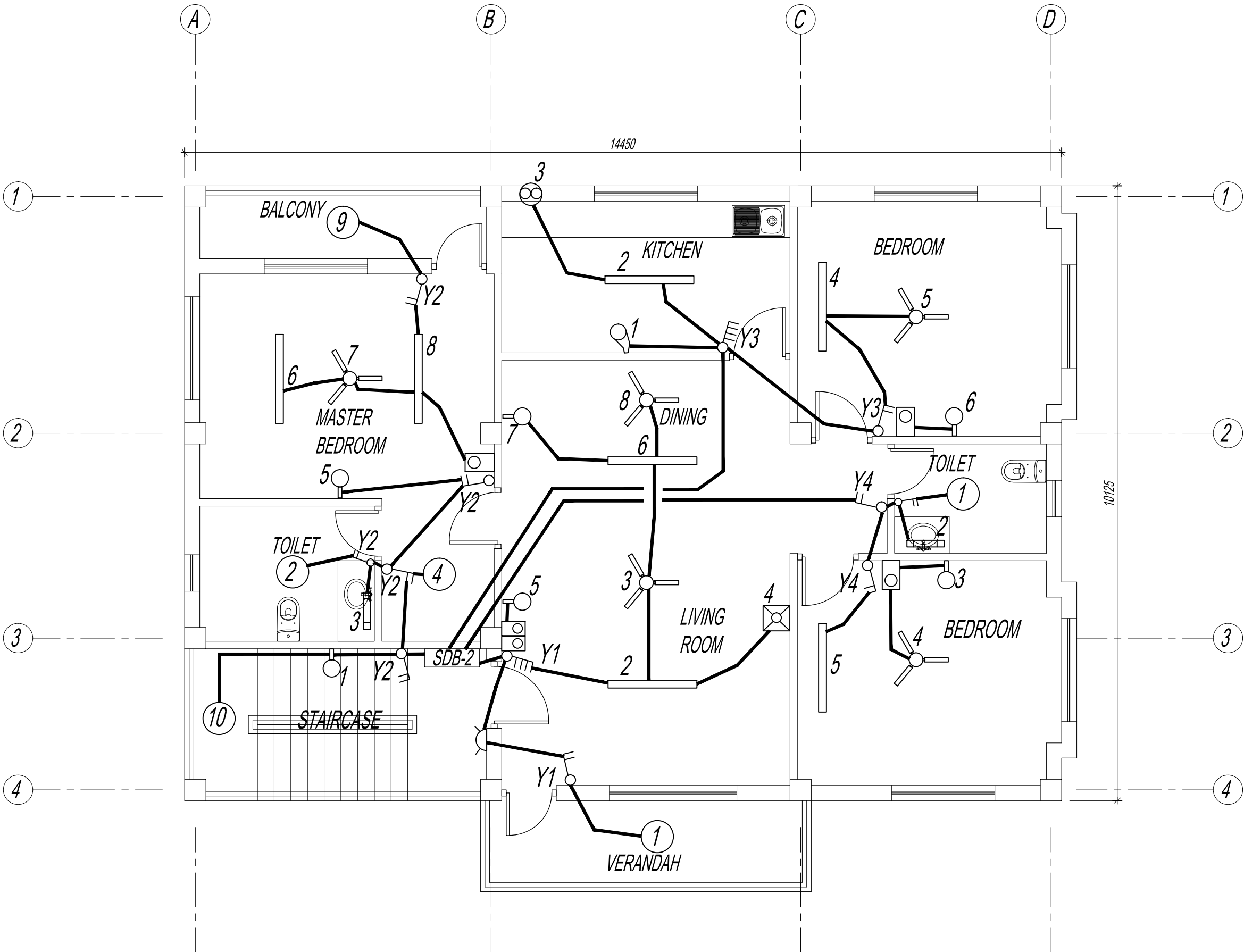
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
FIRST FLOOR PLAN

LIGHT PIPING LAYOUT

Scale	NTS	Rev
Date	SEPT. 1ST 2016	R0
Drawn / Designed By	P. Thinley	
Drawing Number	GEL AIRPORT OR EL-07	
LEAPP Project Code	-----	







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Client
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Project Title

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DESIGN & SUPERVISION

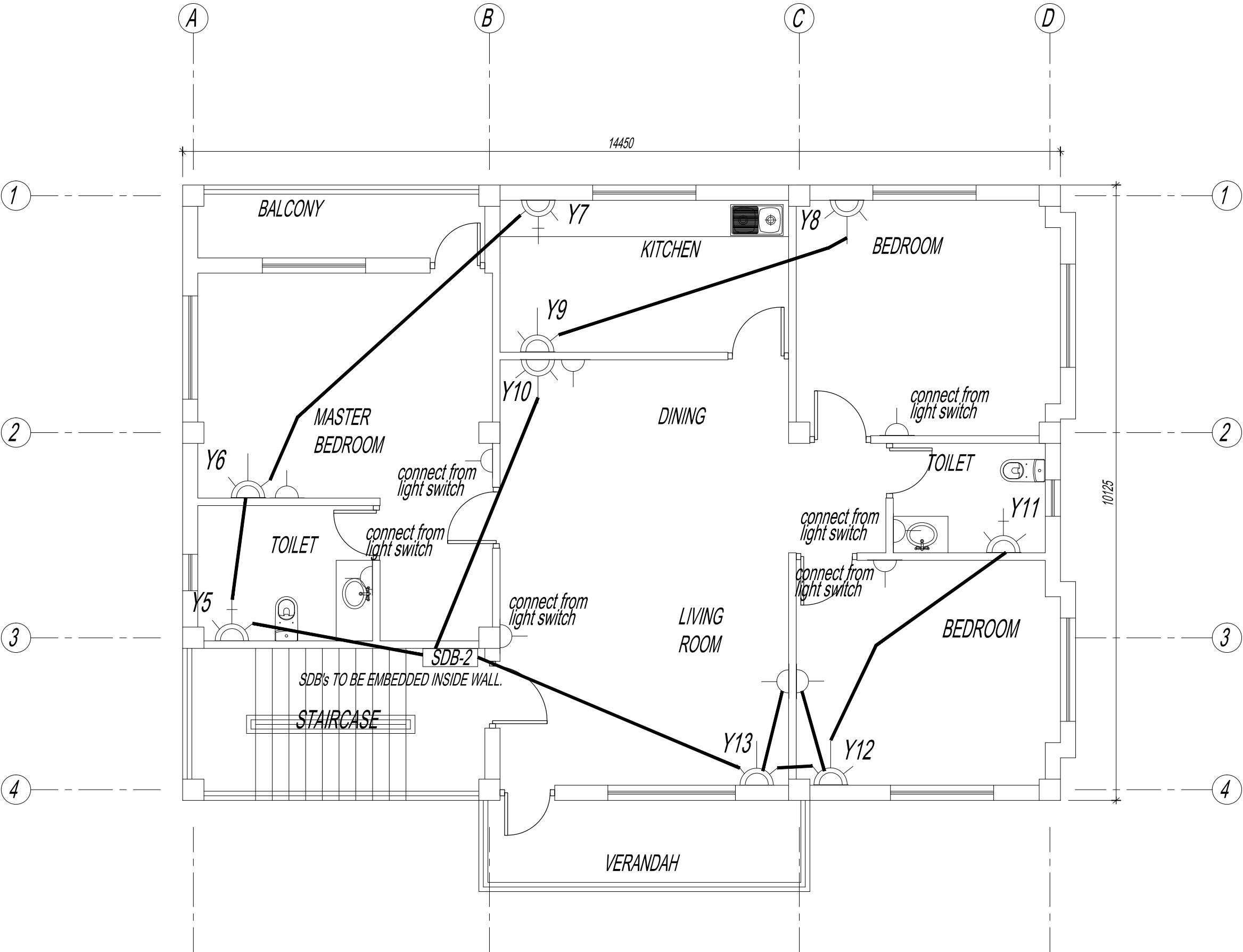
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
FIRST FLOOR PLAN

POWER PIPING LAYOUT

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-08
LEAPP Project Code	-----





ROYAL GOVERNMENT OF BHUTAN  
CIVIL AVIATION DEPARTMENT

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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

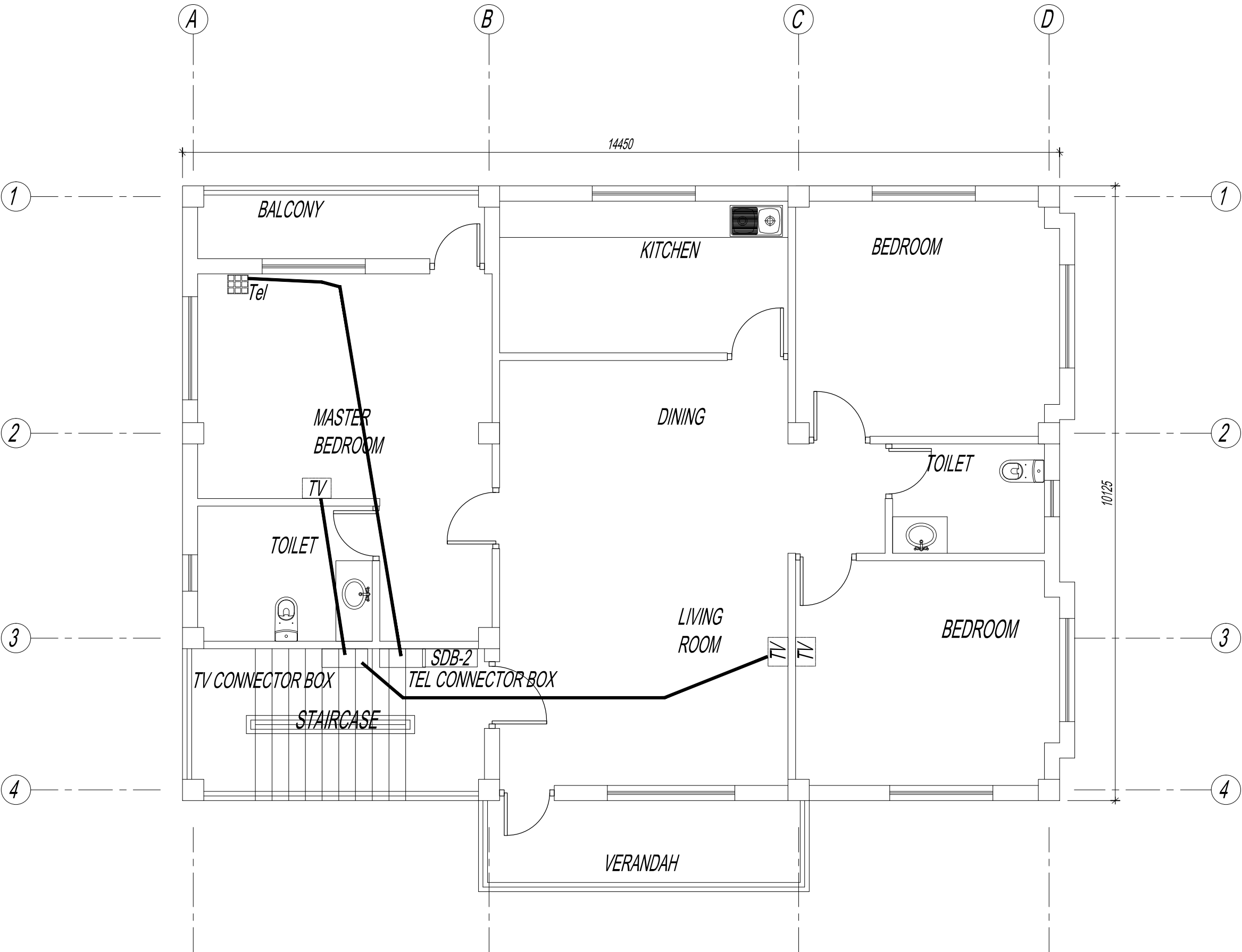
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
FIRST FLOOR PLAN

TV PIPING LAYOUT

Scale	NTS	Rev
Date	SEPT. 1ST 2016	R0
Drawn / Designed By	P. Thinley	
Drawing Number	GEL AIRPORT OR EL-09	
LEAPP Project Code	-----	





ROYAL GOVERNMENT OF BHUTAN  
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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

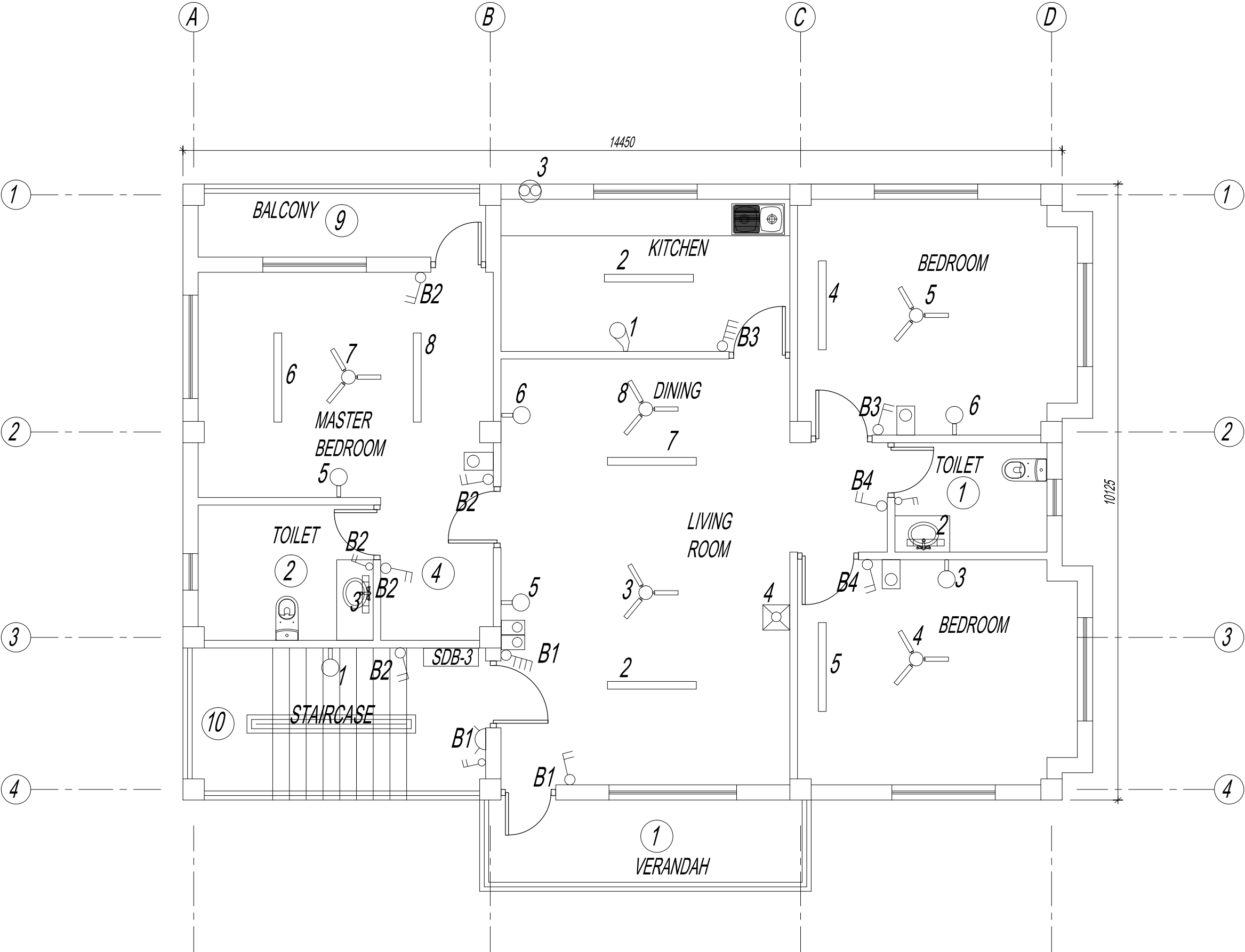
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
SECOND FLOOR PLAN

LIGHTING LAYOUT

Scale	NTS	Rev
Date	SEPT. 1ST 2016	R0
Drawn / Designed By	P. Thinley	
Drawing Number	GEL AIRPORT OR EL-10	
LEAPP Project Code	-----	





ROYAL GOVERNMENT OF BHUTAN  
CIVIL AVIATION DEPARTMENT

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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

OFFICER'S RESIDENCE  
SECOND FLOOR PLAN

LIGHT PIPING LAYOUT

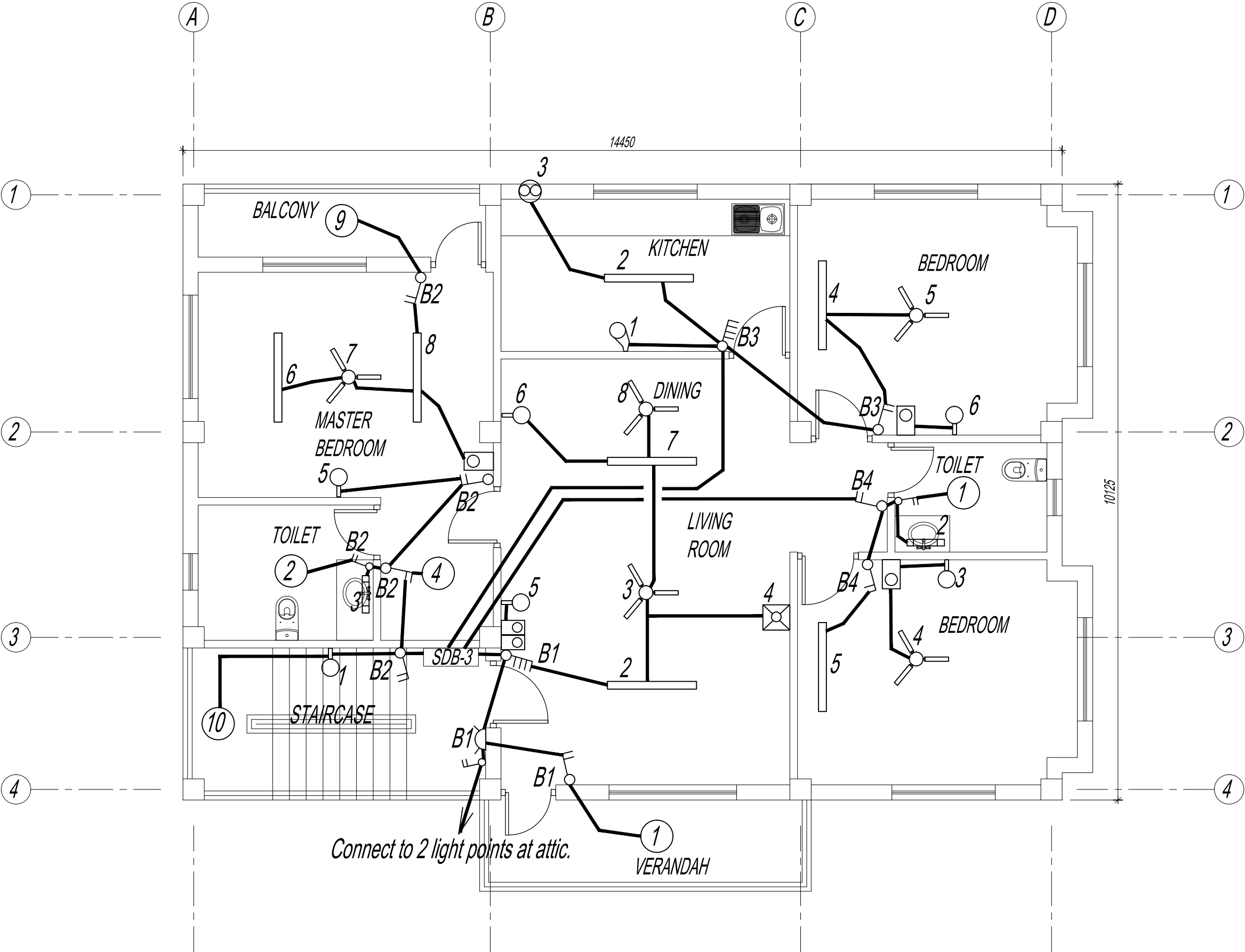
Scale NTS

Date SEPT. 1ST 2016

Drawn / Designed By P. Thinley

Drawing Number  
GEL AIRPORT OR EL-11

LEAPP Project Code  
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CIVIL AVIATION DEPARTMENT

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Project Title

GELEPHU DOMESTIC AIRPORT  
DESIGN & SUPERVISION

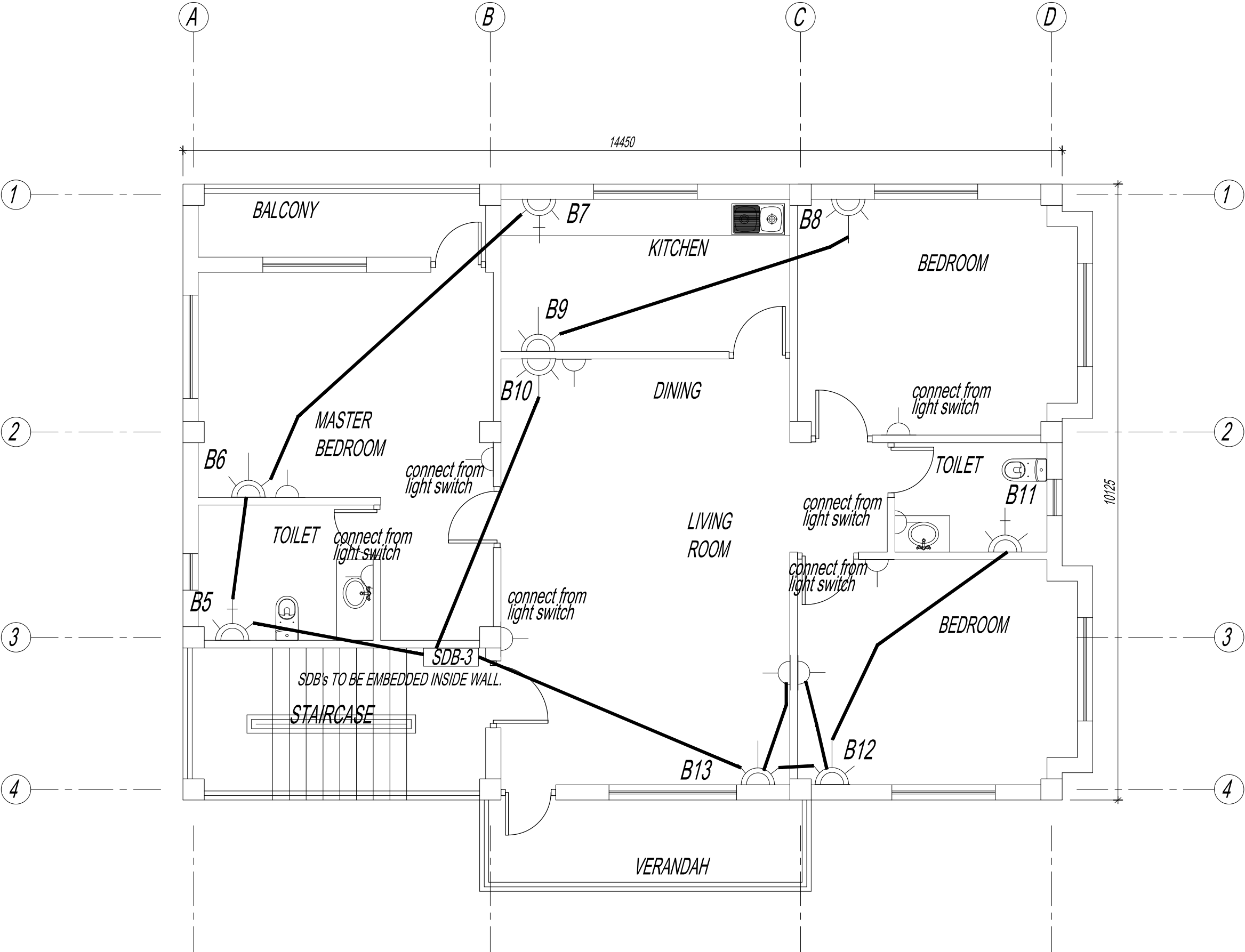
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
SECOND FLOOR PLAN

POWER PIPING LAYOUT

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-12
LEAPP Project Code	----





ROYAL GOVERNMENT OF BHUTAN  
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DESIGN & SUPERVISION

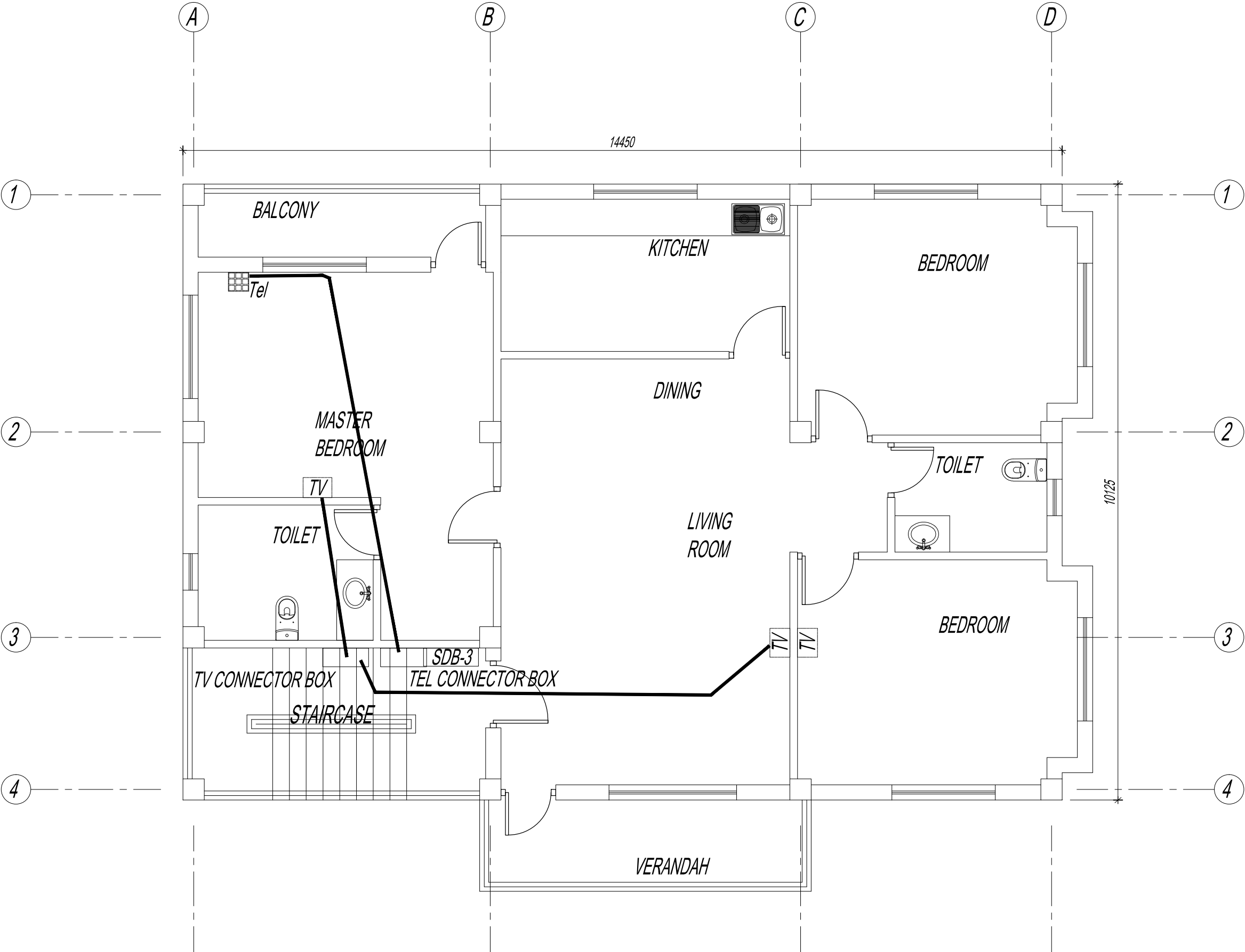
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE  
SECOND FLOOR PLAN

TV PIPING LAYOUT

Scale	NTS	Rev
Date	SEPT. 1ST 2016	R0
Drawn / Designed By	P. Thinley	
Drawing Number	GEL AIRPORT OR EL-13	
LEAPP Project Code	-----	





ROYAL GOVERNMENT OF BHUTAN  
CIVIL AVIATION DEPARTMENT

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Project Title

GELEPHU DOMESTIC AIRPORT  
DESIGN & SUPERVISION

DESIGN OF SECURITY  
QUARTERS.

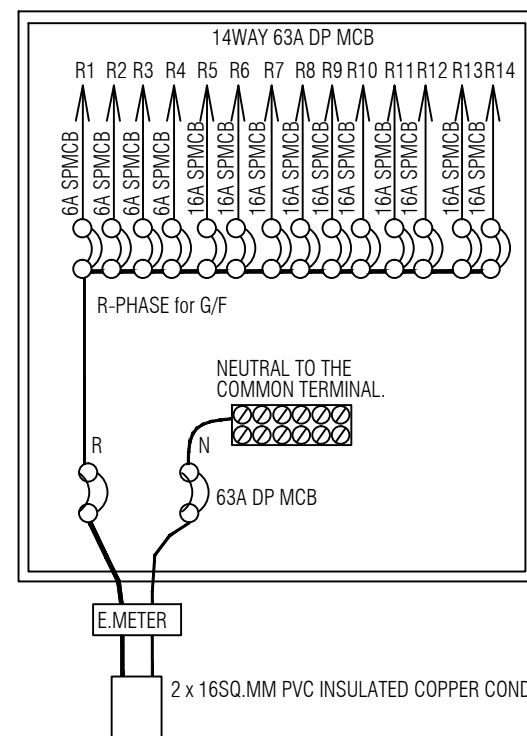
Drawing Title

OFFICER'S RESIDENCE

SINGLE LINE DIAGRAM

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-14
Rev	R0
LEAPP Project Code	----

## SDB-1 -GROUND FLOOR

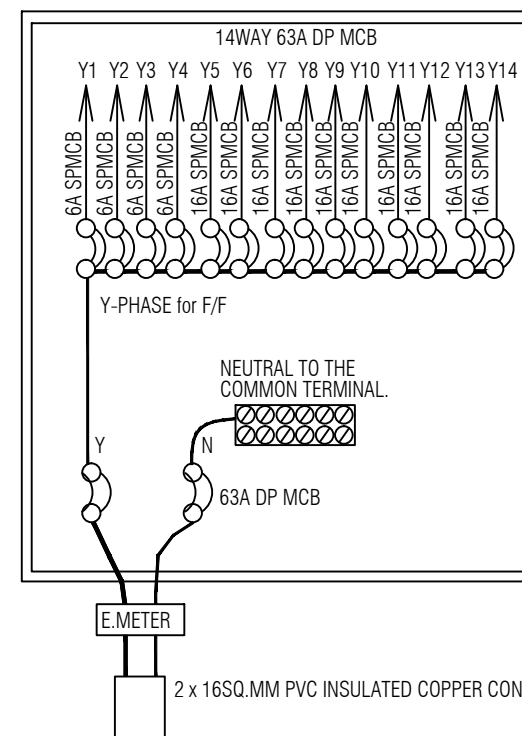


BALANCE LOADS IN WATTS  
R-PHASE AT G/F

R1	408
R2	487
R3	357
R4	368
R5	2200
R6	2000
R7	2000
R8	2000
R9	2000
R10	2100
R11	2100
R12	2000
R13	2000
R14	SPARE
	20020

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for GROUND FLOOR

## SDB-2 -FIRST FLOOR

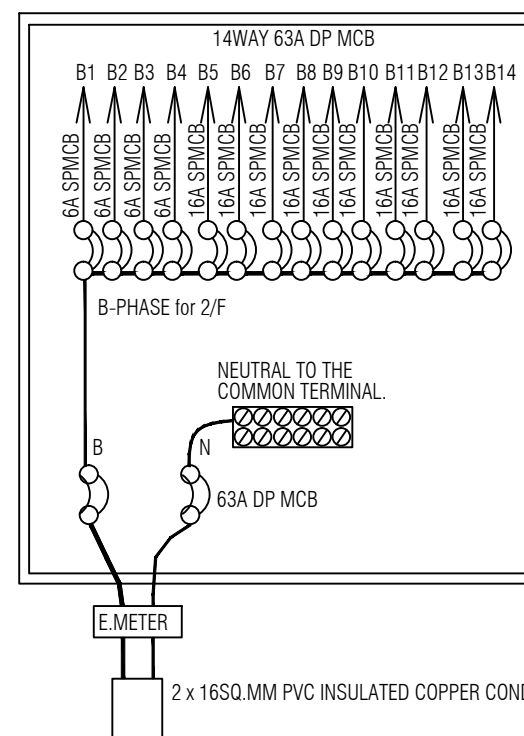


BALANCE LOADS IN WATTS  
Y-PHASE AT F/F

Y1	373
Y2	417
Y3	342
Y4	333
Y5	2000
Y6	2100
Y7	2000
Y8	2000
Y9	2000
Y10	2100
Y11	2000
Y12	2100
Y13	2100
Y14	SPARE
	19865

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for FIRST FLOOR

## SDB-3 -SECOND FLOOR



BALANCE LOADS IN WATTS  
B-PHASE AT 2/F

B1	395
B2	417
B3	342
B4	333
B5	2000
B6	2100
B7	2000
B8	2000
B9	2000
B10	2100
B11	2000
B12	2100
B13	2100
B14	SPARE
	19887

SINGLE LINE DIAGRAM CIRCUIT REFERENCE OUTGOING for SECOND FLOOR



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  
-ALL DIMENSIONS MEASURE UNFINISHED SURFACES UNLESS SPECIFIED OTHERWISE  
-ALL DIMENSIONS ARE TO BE READ AND NOT SCALED OFF  
-ANY DISCREPANCY IN DRAWING IS TO BE BROUGHT TO THE IMMEDIATE NOTICE OF THE CONSULTANTS/SUPERVISION TEAM  
-MINOR ADJUSTMENTS NEED TO BE CARRIED OUT ON SITE TO MATCH WITH EXISTING BUILDING

Legend

No.	Revision	Date

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

OFFICER'S RESIDENCE

MAIN CONTROL PANEL BOARD

Scale NTS

Date SEPT. 1ST 2016

Drawn / Designed By P. Thinley

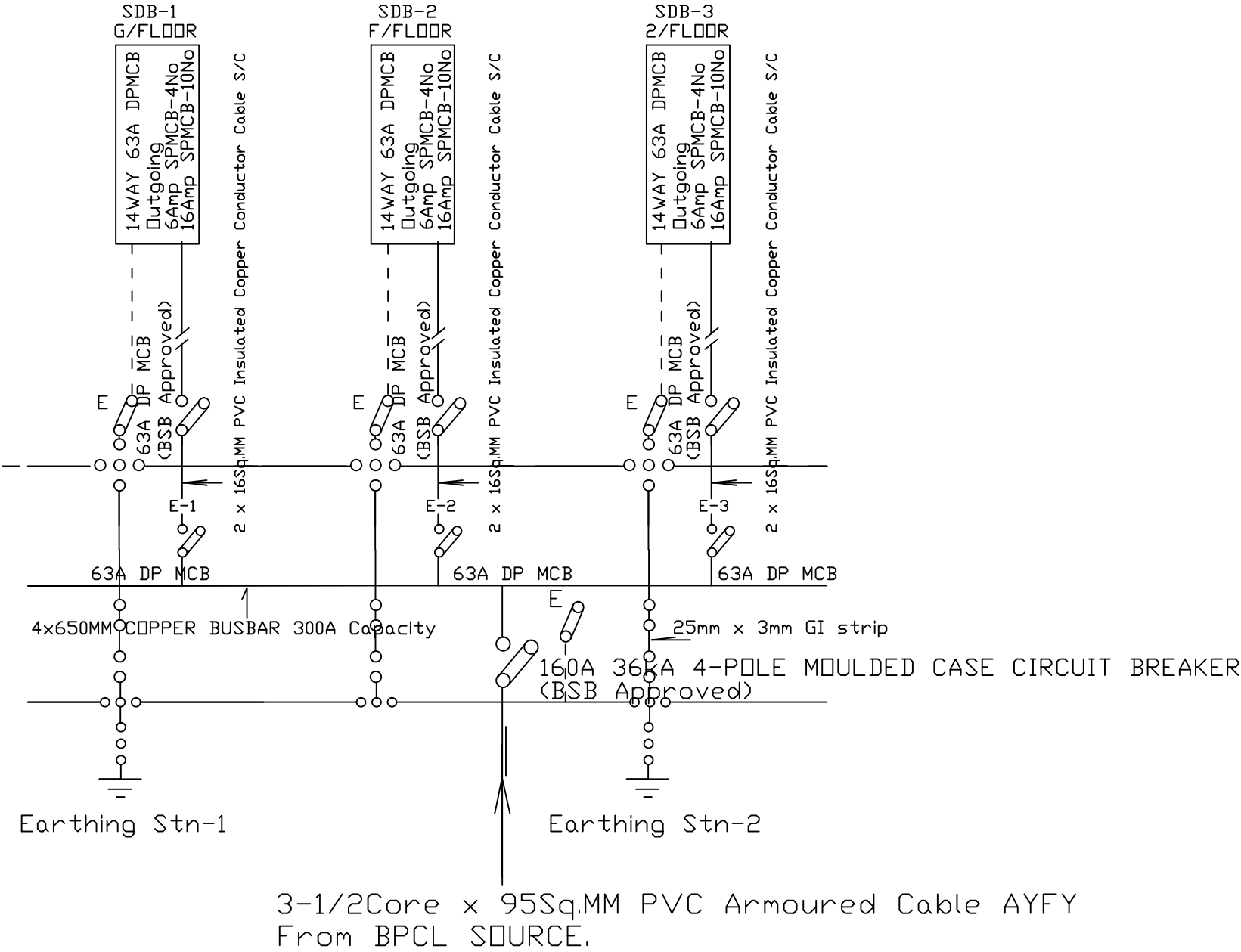
Drawing Number GEL AIRPORT OR EL-15

Rev R0

LEAPP Project Code

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# 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.



NOTE:

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Legend

No.	Revision	Date

Client  
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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

OFFICER'S RESIDENCE

EARTHING PLATE DETAILS

Scale NTS

Date SEPT. 1ST 2016

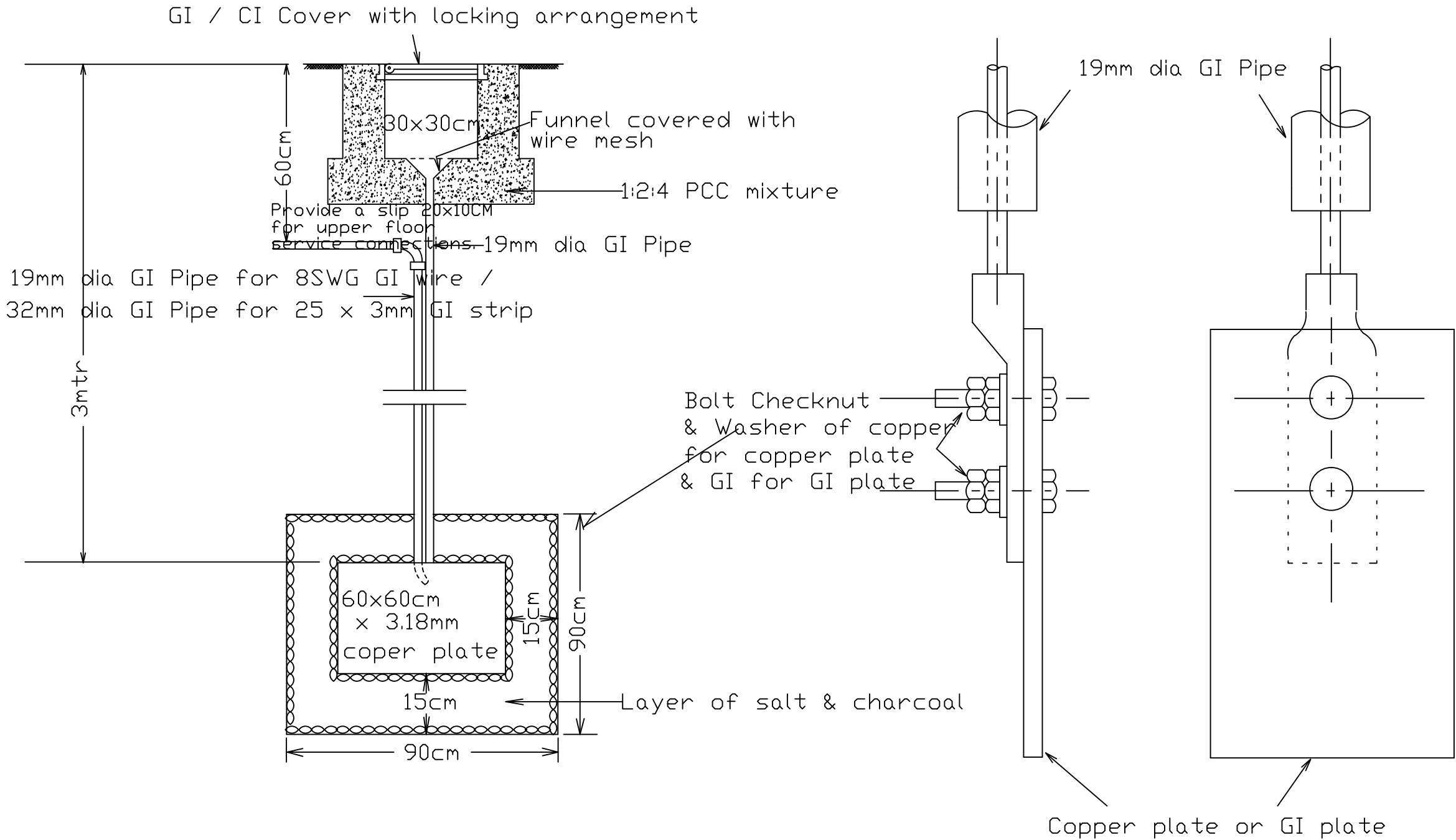
Drawn / Designed By P. Thinley

Drawing Number GEL AIRPORT OR EL-16

Rev R0

LEAPP Project Code

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EARTHING PLATE DIAGRAM



ROYAL GOVERNMENT OF BHUTAN  
CIVIL AVIATION DEPARTMENT

NOTE:  
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Legend

No.	Revision	Date

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

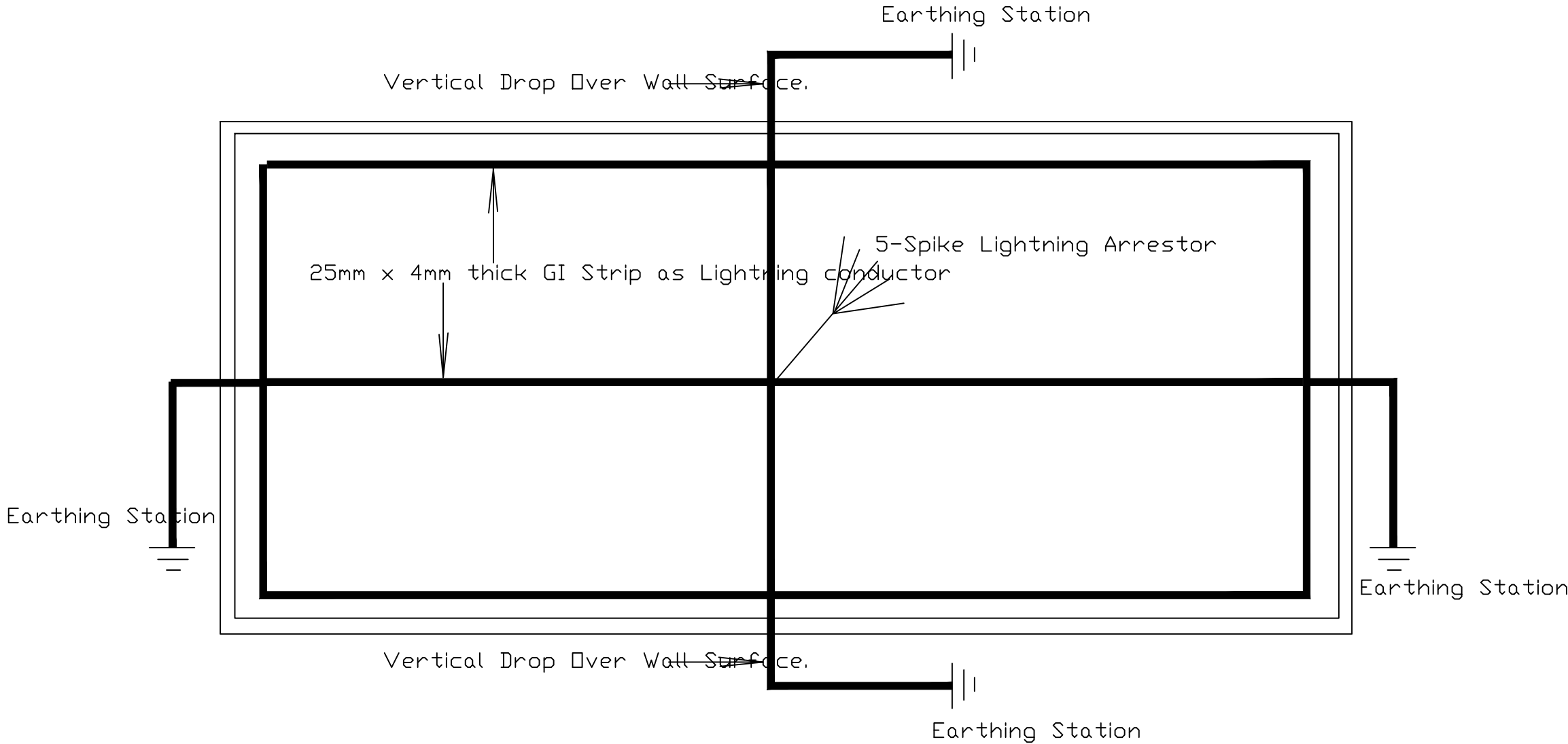
DESIGN OF SECURITY  
QUARTERS.

Drawing Title

OFFICER'S RESIDENCE

LIGHTNING ARRESTOR DETAIL

Scale	NTS
Date	SEPT. 1ST 2016
Drawn / Designed By	P. Thinley
Drawing Number	GEL AIRPORT OR EL-17
LEAPP Project Code	-----



- 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.