

NOTES

1. All conduits must be laid before plastering.
2. All dimensions are in mm unless otherwise stated.
3. All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
4. All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
5. All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
6. All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
7. All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
8. Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
9. This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
10. All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
11. This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

Client Signature & Code:

Title:

CONTRACT DRAWINGS - ELECTRICAL POWER SCHEMATICS

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved

Date

Eng. (Dr.) A. G. Kihuga

CHIEF ENGINEER (ELECTRICAL)

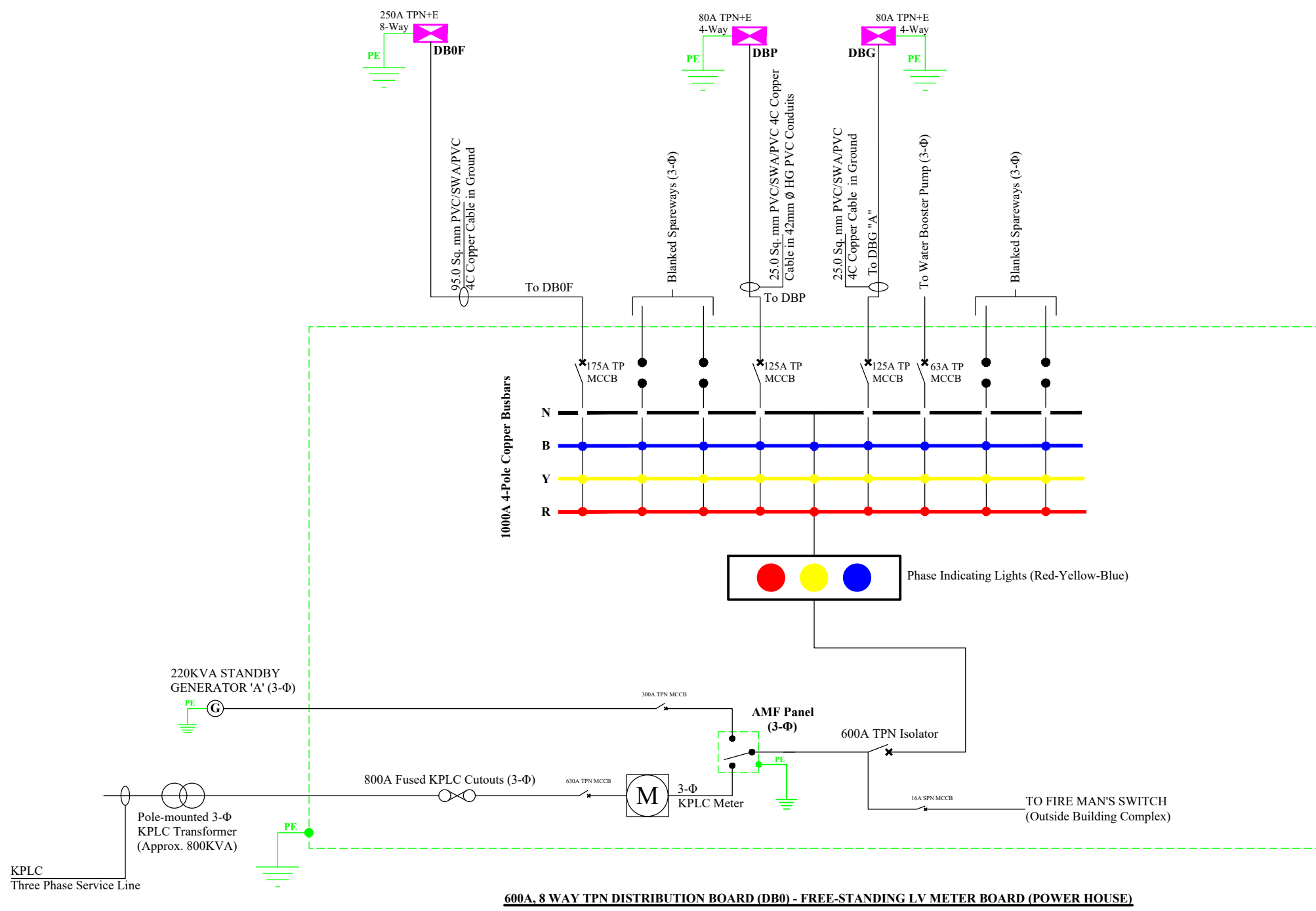
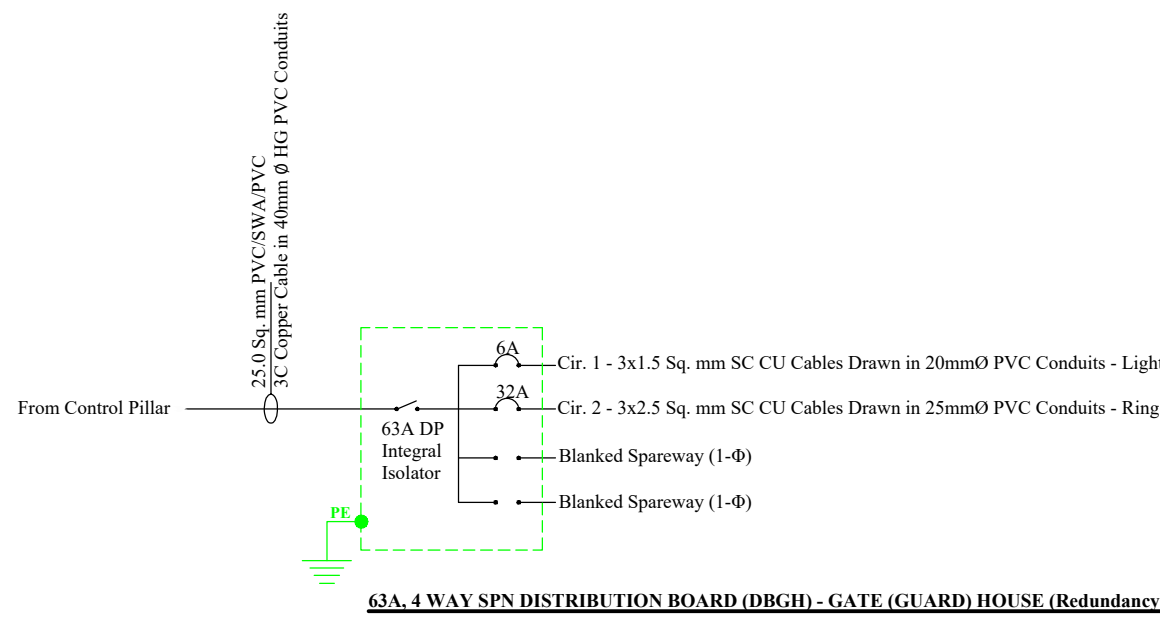
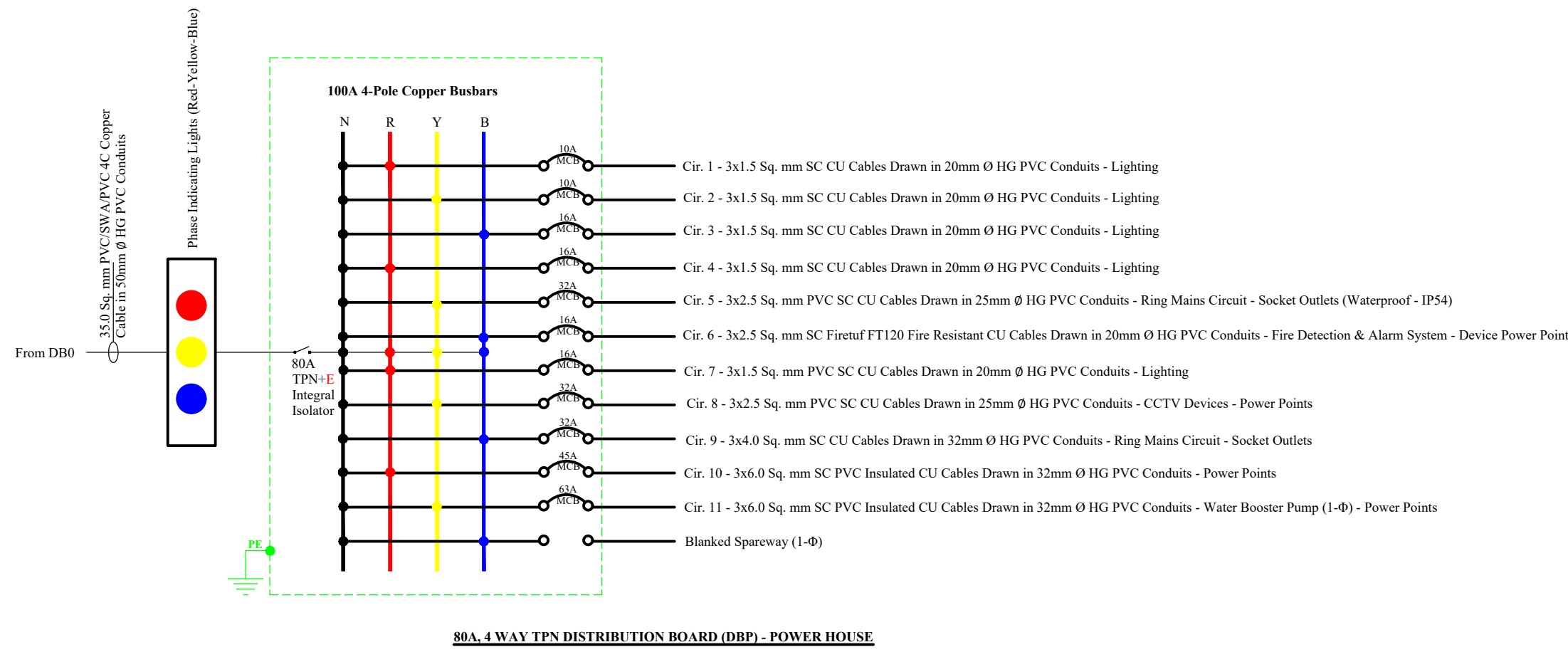
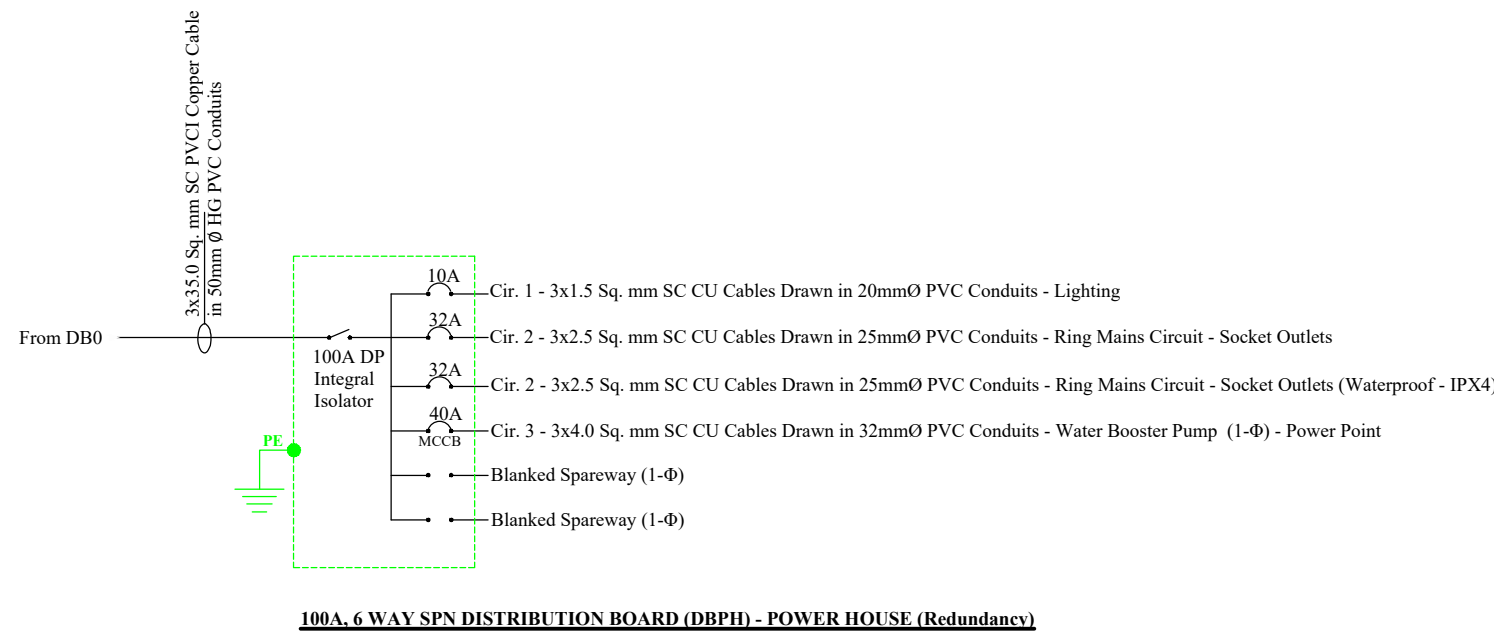
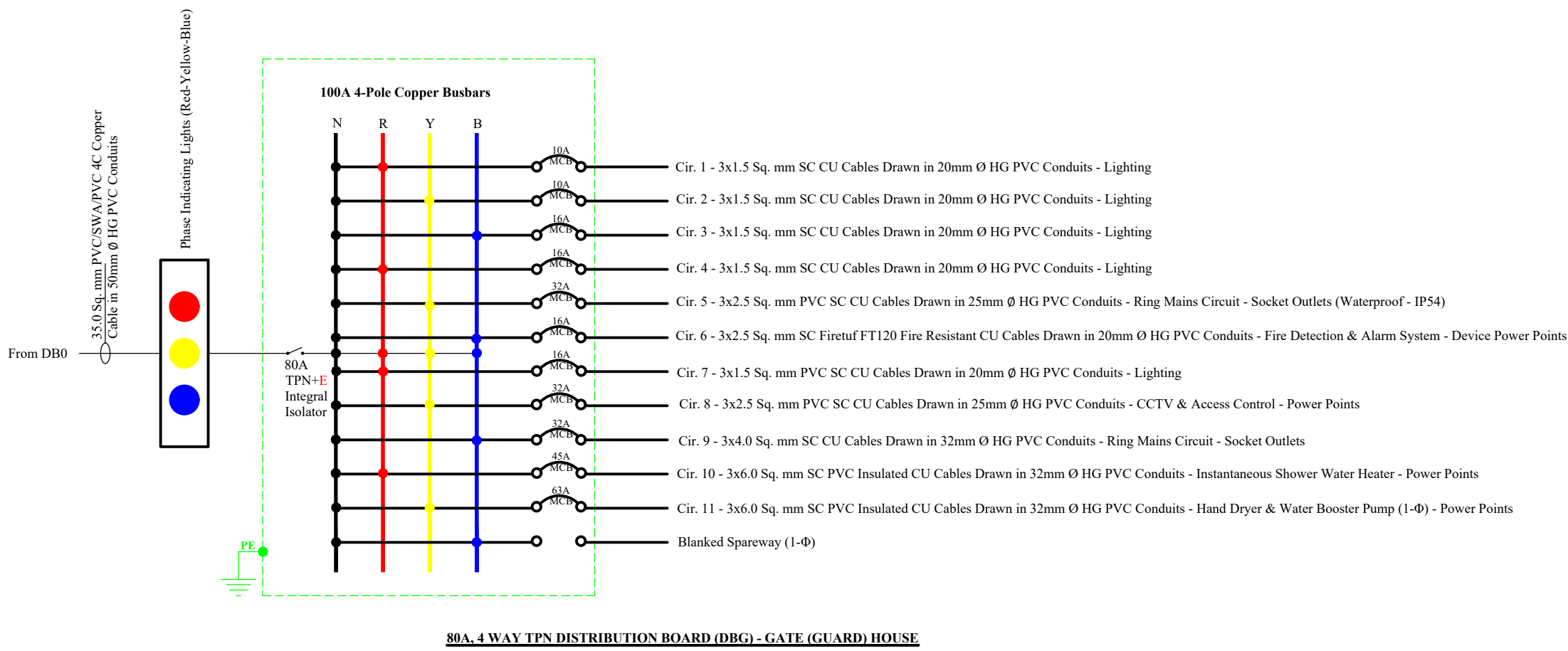
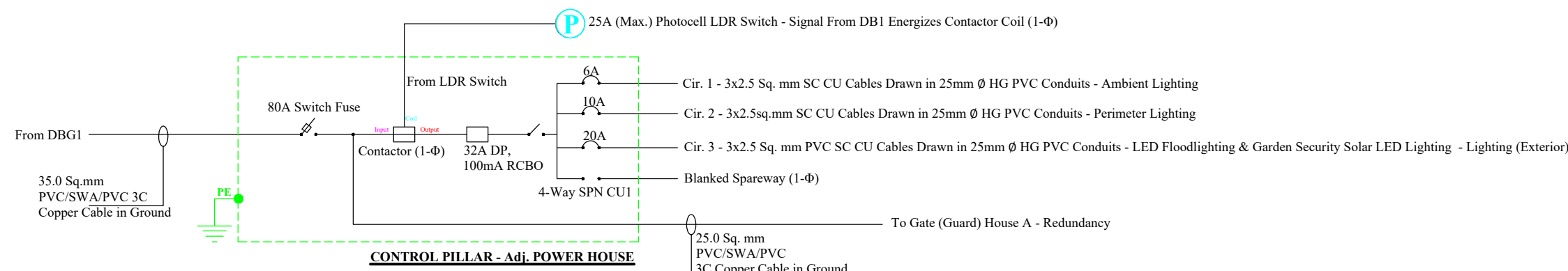
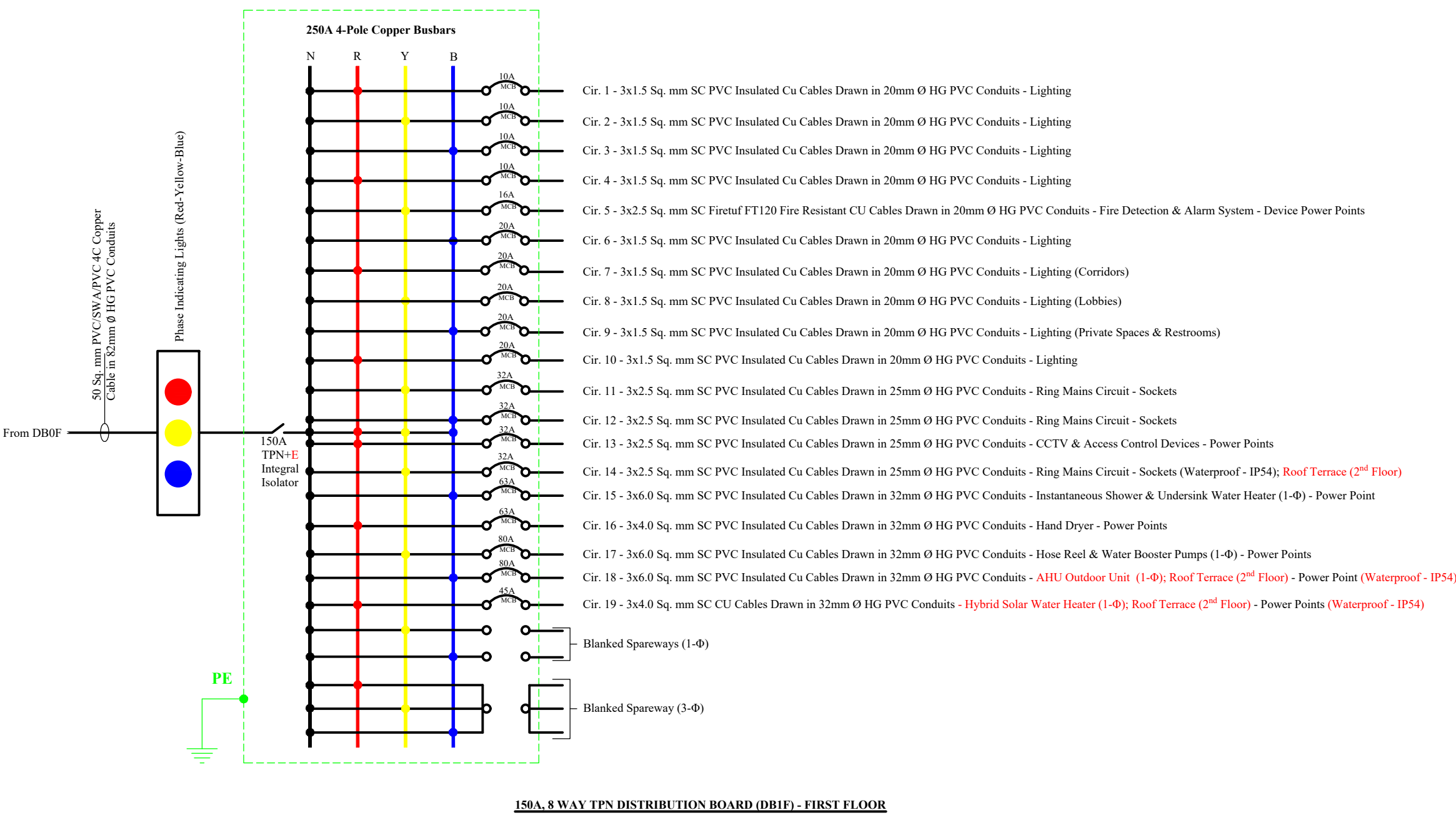
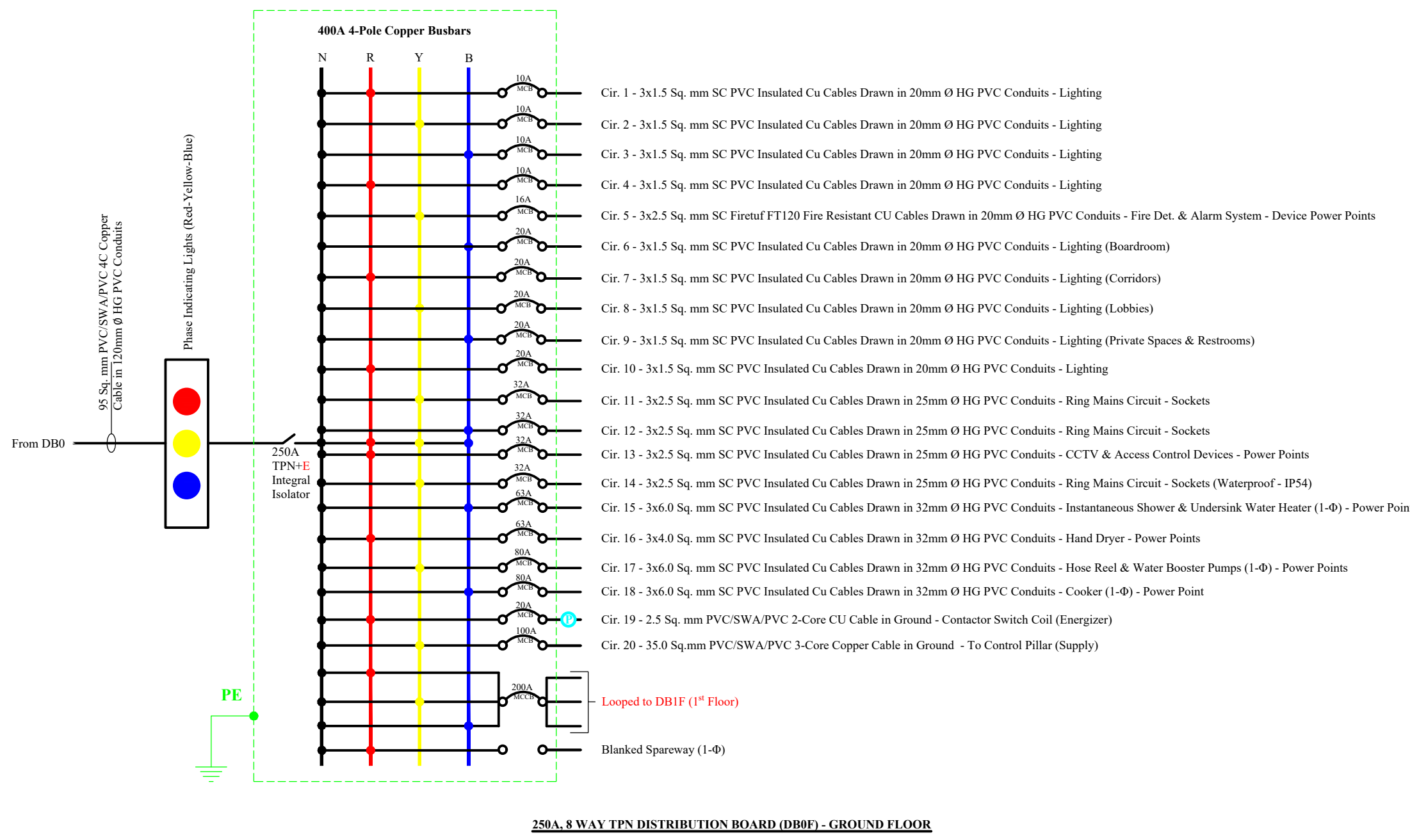
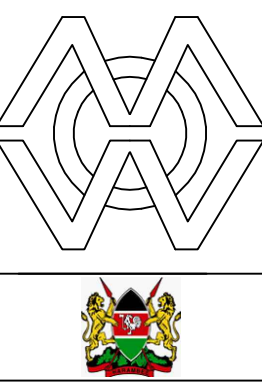
Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E01

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

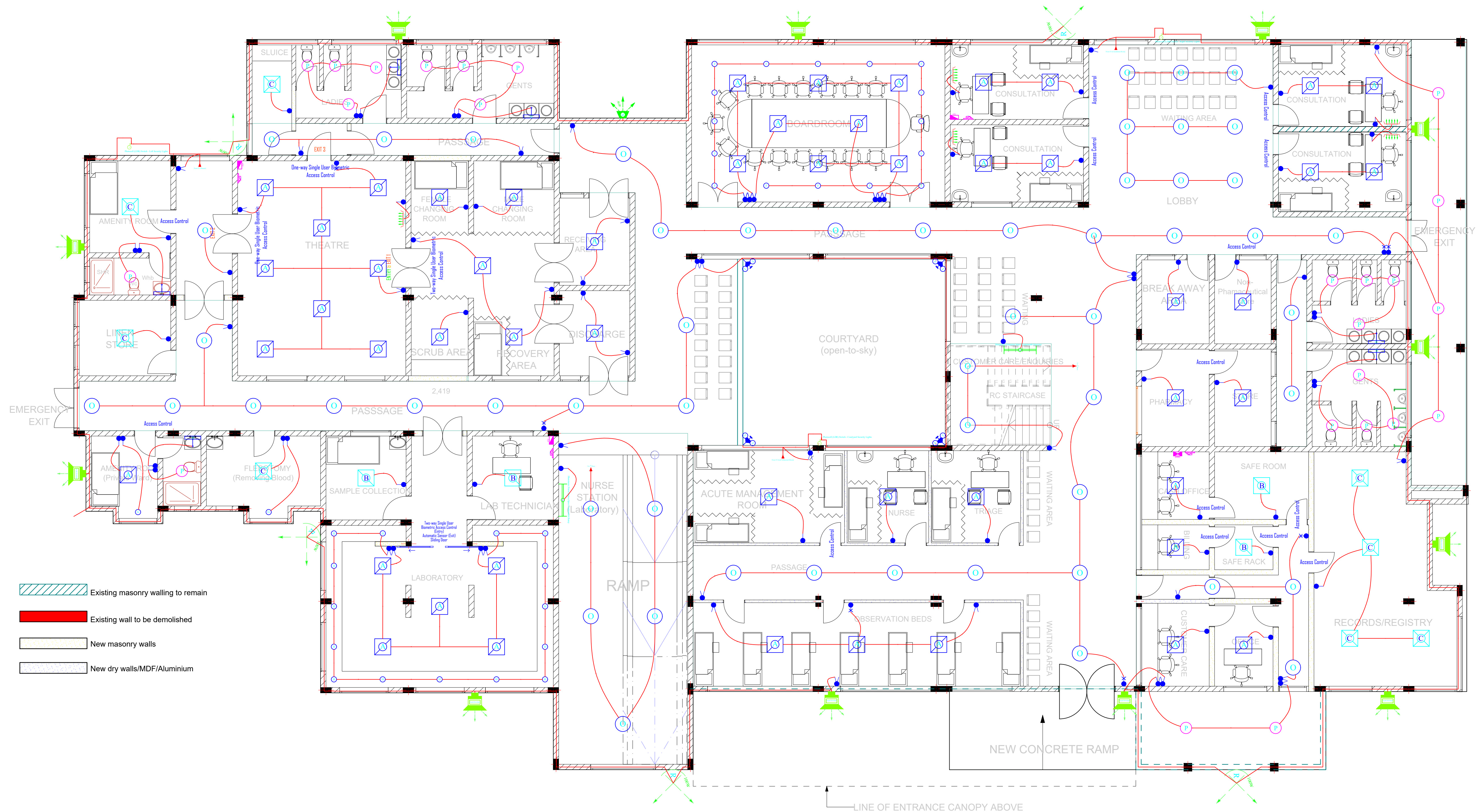
ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA



ABBREVIATIONS & ACRONYMS
1. Adj - Adjacent (Near)
2. Approx - Approximately
3. Max - Maximum
4. Redundancy - Supplementary (Spurs)
5. L-P - Single Phase (Power)
6. 3-Ø - Three Phase (Power)
7. R-Y-B - Positive Sequenced 3-Ø Power
8. DP - Double Pole (Isolator)
9. SP - Single Pole (Isolator)
10. TP - Triple Pole (Isolator)
11. CCT - Circuit
12. CB - Circuit Breaker
13. MCB - Miniature CB
14. MCCB - Moulded Case CB
15. RCCB - Residual Current Breaker
16. RCD - Residual Current Device
17. RCCB - Residual Current CB
18. RCD - RCD-CB
19. LD - Light Dependent
20. LDR (P) - LDR Resistor (Photores)
21. CCTV - Closed Circuit Television





GROUND FLOOR PLAN  
(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	36	1 gang 1 way switch
	24	1 gang 2 way switch
	8	2 gang 1 way switch
	6	2 gang 2 way switch
	1	2 gang intermediate switch
	2	3 gang 2 way switch
	3	8 way SPN Consumer Unit c/w 80A DP Integral Isolator, Recessed
	1	12 Way Type B TPN Distribution Board c/w 250A TPN+E Integral Isolator, DBOF for Ground Floor, Recessed
	12	Type I Luminaire as described in Particular Specifications
	3	Single Phase Isolator Point
	5	Intermediate switch
	1	Three Phase Isolator Point, 250A TPN
	3	Dusk-to-dawn,5400W/6000VA Max. (25A), Programmable Twist-Lock Photocell Light Sensor Switch, wall or pole surface mounted
	51	Type A Lighting Fixture as per Particular Specifications
	4	Type B Lighting Fitting as per Particular Specifications
	8	Type C Luminaire as per Particular Specifications
	6	Type D Lighting Fitting as per Particular Specifications
	16	Type F Lighting Fixture as per Particular Specifications
	2	Type G Luminaire as described in Particular Specifications
	15	Type H Lighting Fitting as per Particular Specifications
	1	Type K Lighting Fixture as per Particular Specifications
	2	Type M Lighting Fixture as described in Particular Specifications
	55	Type O Luminaire as per Particular Specifications
	24	Type P Lighting Fixture as described in Particular Specifications
	5	Type R Lighting Fixture as per Particular Specifications
	4	Type T Luminaire as per Particular Specifications
	5	Type X-Ray Luminaire as per Particular Specifications

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

CONTRACT DRAWINGS - GROUND FLOOR ELECTRICAL LIGHTING LAYOUT

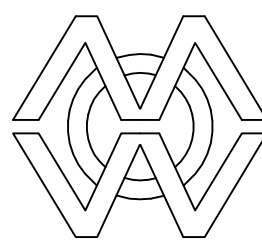
	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved	Date	
Eng. (Dr.) A. G. Kihuga		
<b>CHIEF ENGINEER (ELECTRICAL)</b>	Signed	
Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E02

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA







**GROUND FLOOR PLAN**  
(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	4	Single Phase Air Conditioner (AC) Power Point
	8	Single Phase Air Circulating Fan Power Point, 1kW c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240T1
	3	Single Phase, 1.35kW Water Booster Pump (Motor) Power Point
	3	8 way SPN Consumer Unit c/w 80A DP Integral Isolator, Recessed
	2	Single Phase Cold Room Compressor Power Point, 4.32kW c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240T1
	1	12 Way Type B TPN Distribution Board c/w 250A TPN+E Integral Isolator, DBOF for Ground Floor, Recessed
	2	45A DP Control Switch with Neon Pilot Lamp for Instantaneous Shower Unit
	6	45A DP Control Switch with Neon Pilot Lamp for Undersink Water Heater Unit
	2	DSTV Explora Decoder Unit (STB) c/w all accessories
	7	Single Phase Toilet Extract Fan Power Point, 1kW c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240
	1	8 way 4K HDMI Signal Splitter c/w remote control and all necessary accessories as Vention, Sony or equal and approved equivalent
	8	HDMI 2.1 (eARC) Wall Plate Outlet c/w Female-Female (F/F) Coupler (Connector)
	4	Hand Dryer Unit Power Point
	3	Single Phase Isolator Point
	1	Three Phase Isolator Point, 250A TPN
	10	Nurse Call Intercom Power Point
	12	13A Single Switched Socket Outlet
	6	Undersink Instantaneous Water Heater Power Point c/w 45A DP Control Switch
	3	5-Pin (TPN+E), 32A Industrial, IP65 Three Phase Socket Outlet
	8	Digital Television (DTV) Outlet/Power Point
	57	13A Twin Switched Socket Outlet
	1	Single Phase, 4.2kW Washing Machine Power Point c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240M1
	3	Water Booster Pump (3-Φ) Power Point, 3kW c/w a suitably rated 415V three-phase Surge Diverter as Furse ESP 415
	1	Overhead projector power point, wired in 3x2.5 Sq. mm PVC SC CU Cables Drawn in 25mm Dia. HG PVC Conduits
	2	4T Selector, 8000W Instantaneous Shower Unit Power Point
	4	13A Single Switched Socket Outlet, Waterproof (IP54)
	34	13A Twin Switched Socket Outlet, Waterproof (IP54)

## NOTES

1. All conduits must be laid before plastering.
2. All dimensions are in mm unless otherwise stated.
3. All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
4. All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
5. All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
6. All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
7. All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
8. Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
9. This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
10. All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
11. This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

CONTRACT DRAWINGS - GROUND FLOOR ELECTRICAL POWER LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

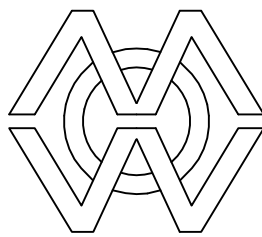
Approved	Date
Eng. (Dr.) A. G. Kihuga	
<b>CHIEF ENGINEER (ELECTRICAL)</b>	Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E03

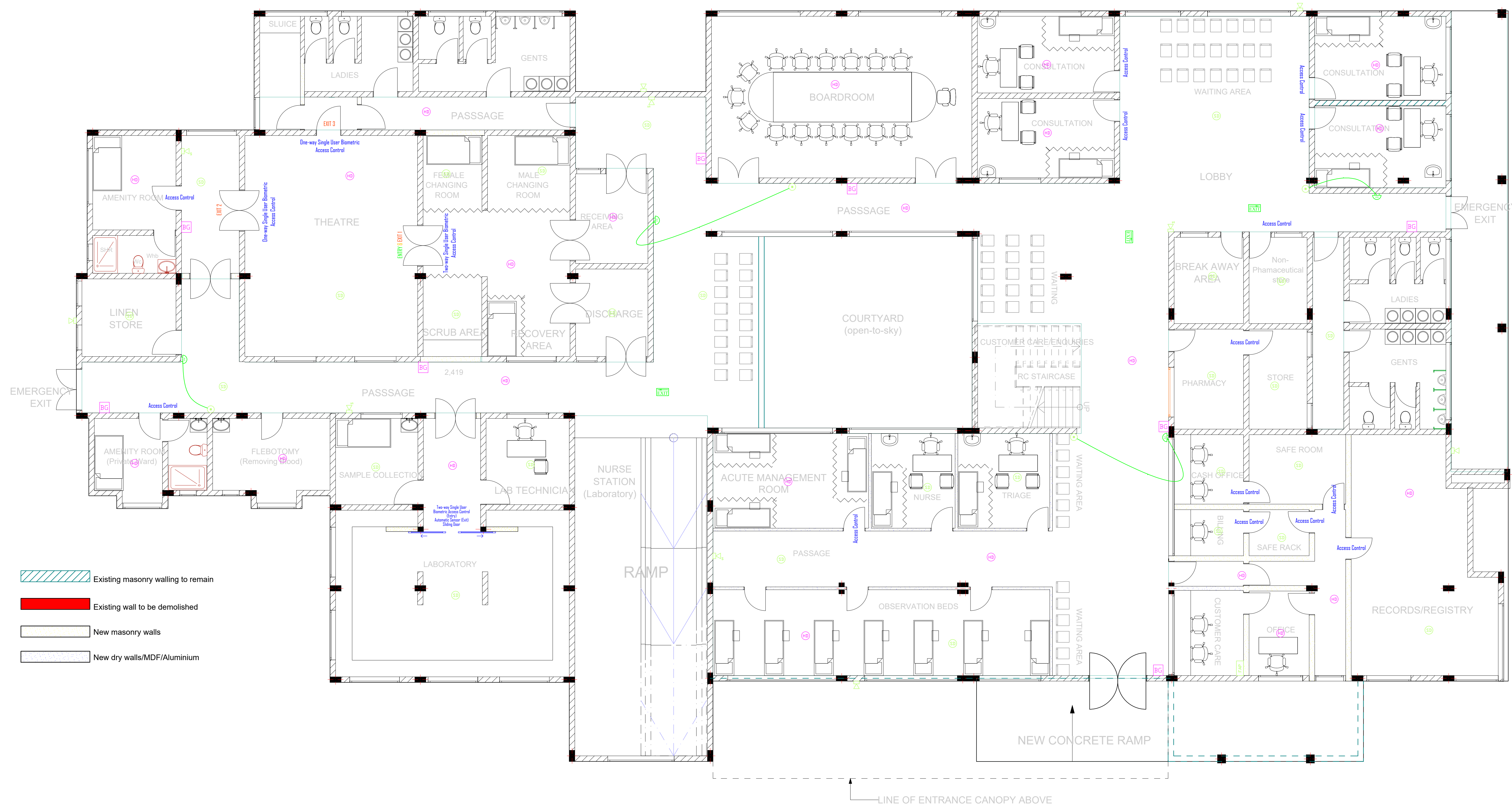
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA







- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

## GROUND FLOOR PLAN

(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	4	Emergency Bell Push Button
	1	Fire Detection & Alarm Control Panel Point, Semi-Recessed
	23	Rate-of-Rise (ROR) Heat (Thermal) Detector Point
	5	Addressable Electronic Fire Alarm Horn Sounder with Red Flashing Beacon Lights as MENVIER or Approved Equivalent
	28	Photoelectric Smoke Detector Point
	5	Fire Alarm Speaker for voice evacuation, White, Wall-mounted
	8	Addressable Manual Fire break glass or Manual Call Point as MENVIER or Approved Equivalent
	3	Type EXIT Luminaire as per Particular Specifications
	4	Fire Alarm Bell

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

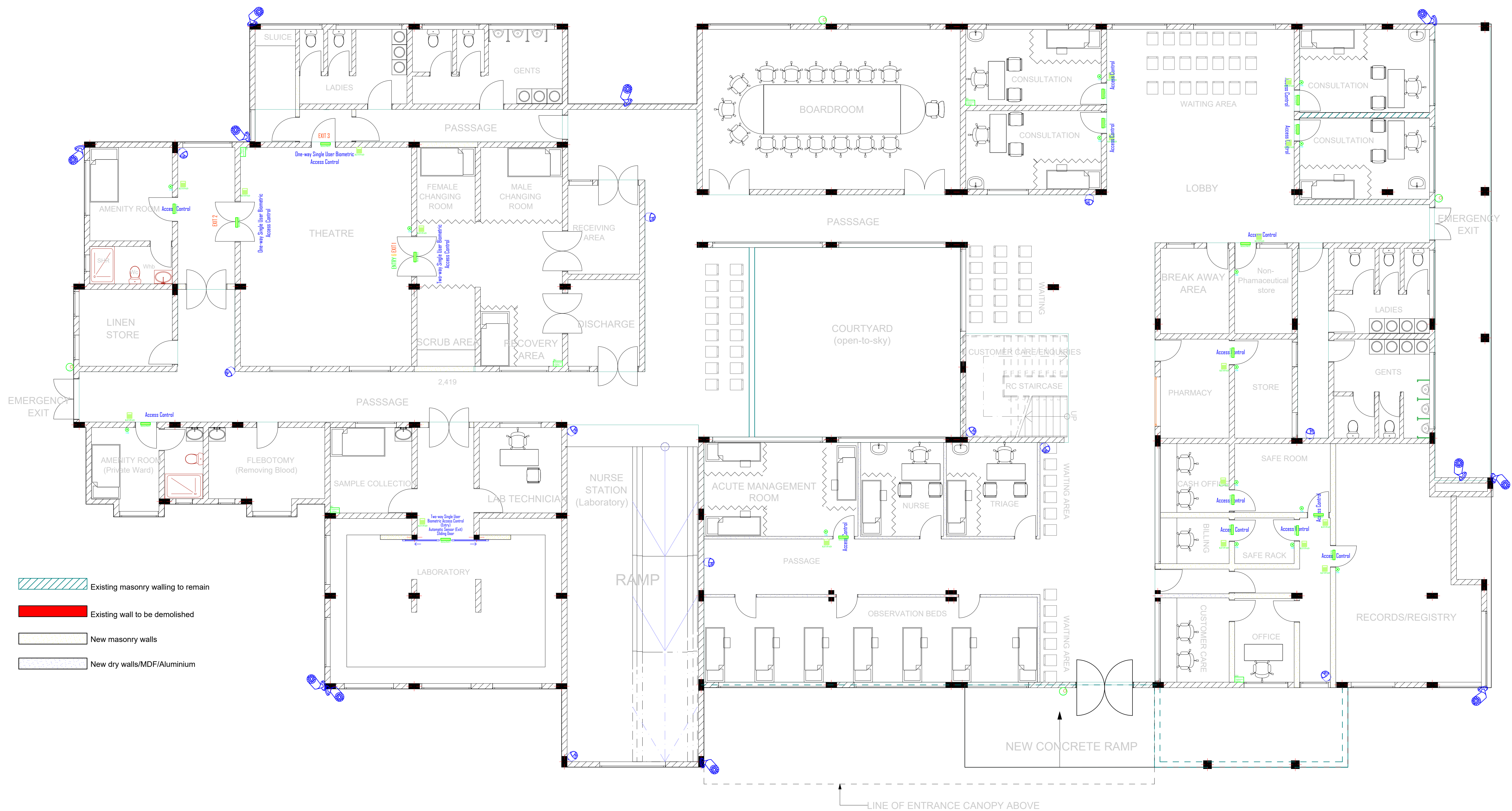
**Title:**  
CONTRACT DRAWINGS - GROUND FLOOR FIRE DETECTION & ALARM LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved	Date	
Eng. (Dr.) A. G. Kihuga		
<b>CHIEF ENGINEER (ELECTRICAL)</b>		Signed
Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E04

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT	
ELECTRICAL ENGINEERING DIRECTORATE	
THE GOVERNMENT OF THE REPUBLIC OF KENYA	





- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

## GROUND FLOOR PLAN

(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	1	22U Metal Equipment Cabinet as per Particular Specifications, Wall-mounted
	4	9U Metal Equipment Cabinet as per Particular Specifications, Wall-mounted
	11	Bullet Camera Point
	4	PTZ Camera Point
	11	Dome Camera Point
	18	A 300Kg-force Magnetic Door Lock
	18	Fully accessorised proximity card reader complete with biometric finger print reader, iris scanner and keypad
	15	Magnetic Lock Deactivation/Override Button

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

**Title:**  
CONTRACT DRAWINGS - GROUND FLOOR CCTV & ACCESS CONTROL LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved Date

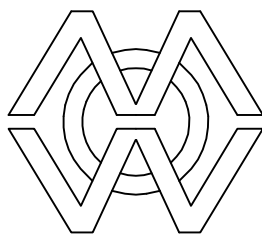
Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E05

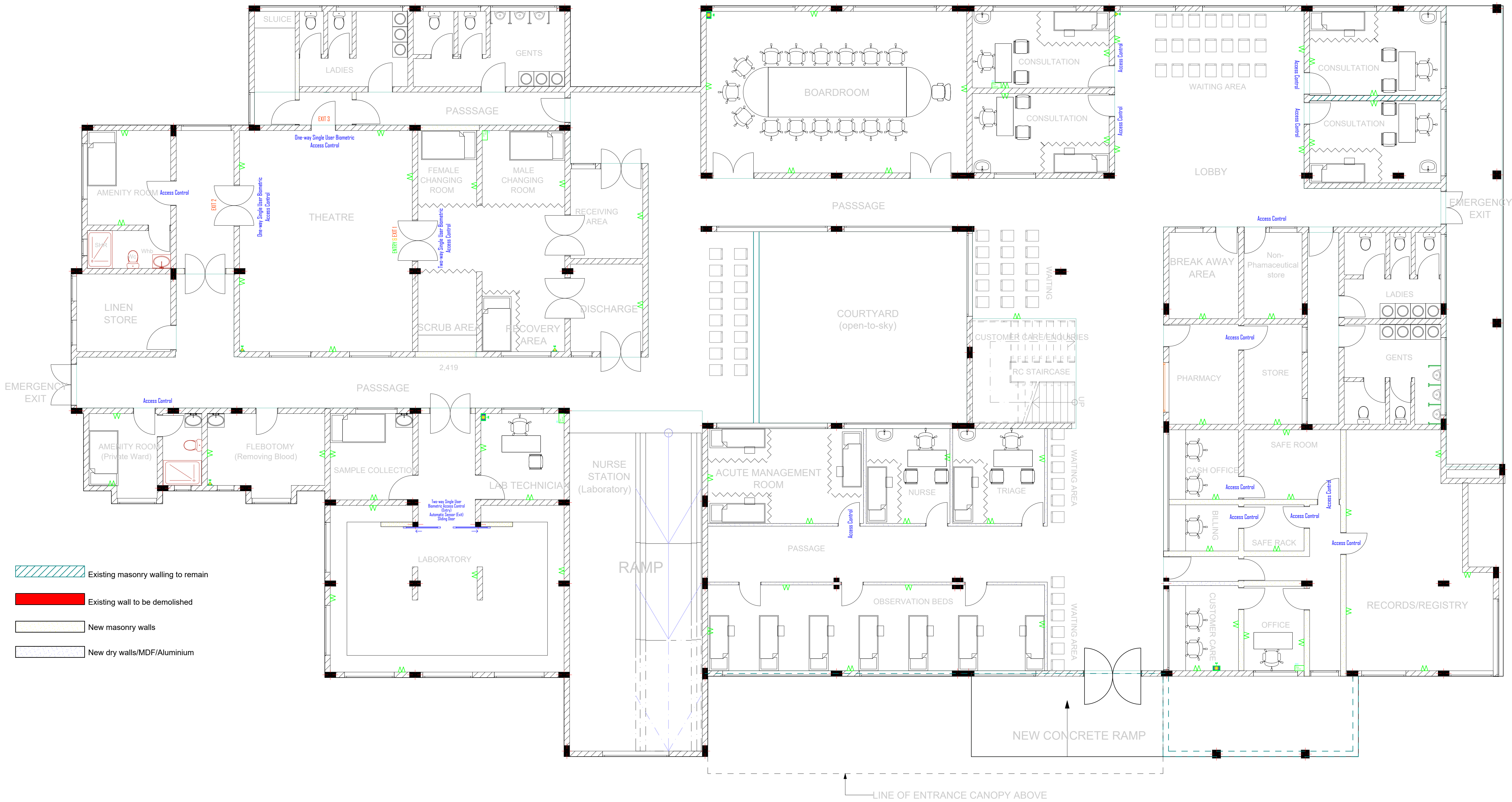
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA







- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	1	22U Data Cabinet as per particular specifications
	3	9U Data Cabinet as per particular specifications
	4	Wireless Access Point (AP)/Range Extender Point
	3	Wi-Fi Router/Access Point
	71	IP Telephone/Data Twin Outlet

## GROUND FLOOR PLAN

(Scale: NTS)

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

CONTRACT DRAWINGS - GROUND FLOOR STRUCTURED CABLING & IP EPABX LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved

Date

Eng. (Dr.) A. G. Kihuga

**CHIEF ENGINEER (ELECTRICAL)**

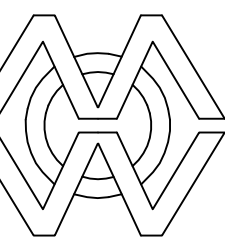
Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E06

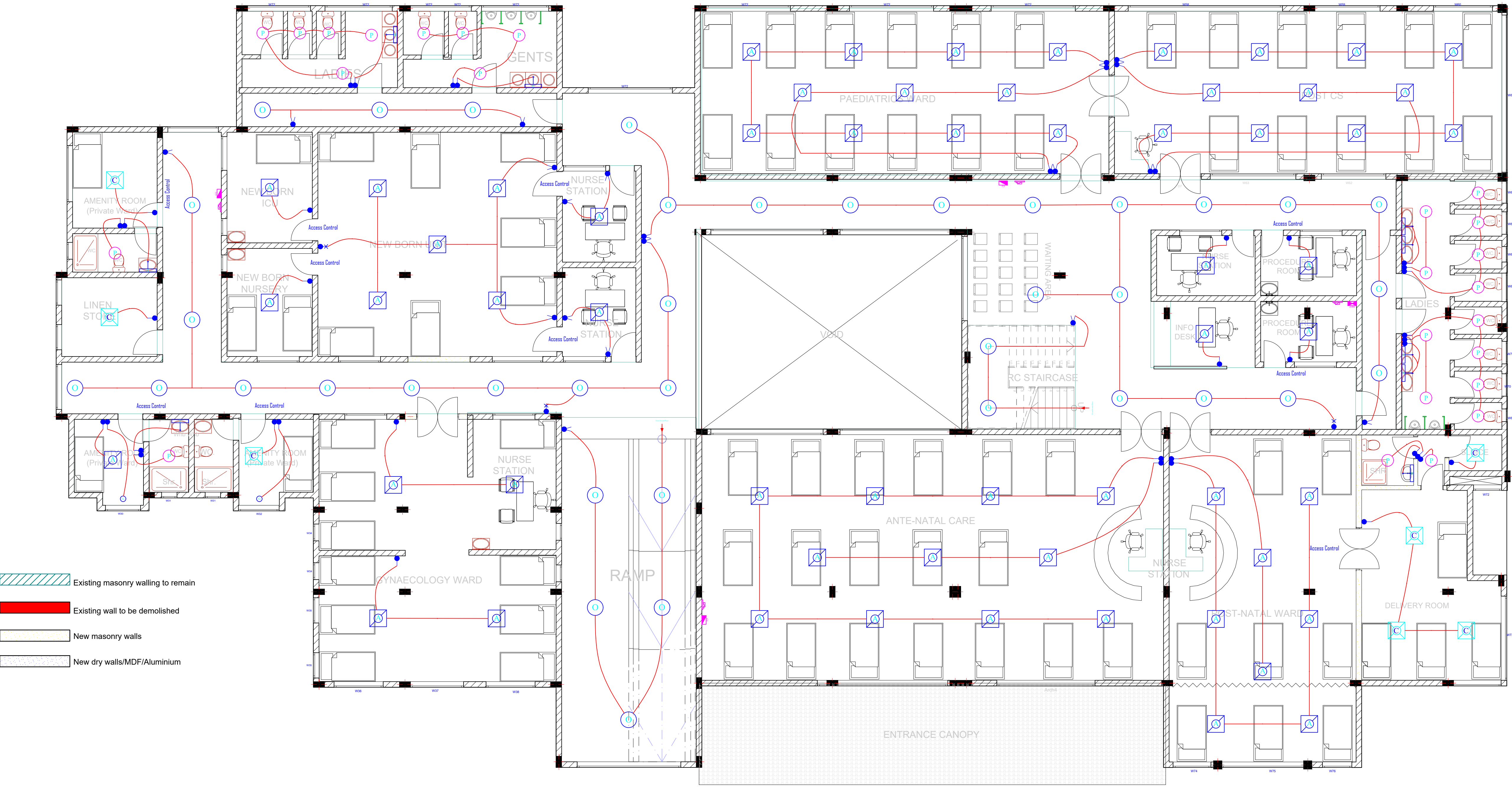
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA







1ST FLOOR PLAN  
(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
12	1	gang 1 way switch
12	1	gang 2 way switch
8	2	gang 1 way switch
5	2	gang 2 way switch
3	3	gang 1 way switch
8	way	SPN Consumer Unit c/w 80A DP Integral Isolator, Recessed
1	12	Way Type B TPN Distribution Board c/w 150A TPN+E Integral Isolator, DB1F for First Floor, Recessed
3	Single	Phase Isolator Point
3	Intermediate	switch
59	Type A	Lighting Fixture as per Particular Specifications
7	Type C	Luminaire as per Particular Specifications
9	Type D	Lighting Fitting as per Particular Specifications
2	Type G	Luminaire as described in Particular Specifications
38	Type O	Luminaire as per Particular Specifications
25	Type P	Lighting Fixture as described in Particular Specifications
1	Three	Phase Isolator Point, 150A TPN

NOTES

1. All conduits must be laid before plastering.
2. All dimensions are in mm unless otherwise stated.
3. All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
4. All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
5. All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
6. All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
7. All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
8. Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
9. This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
10. All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
11. This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

Client Signature & Code:

Title:

CONTRACT DRAWINGS - FIRST FLOOR ELECTRICAL LIGHTING LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved	Date
Eng. (Dr.) A. G. Kihuga	
CHIEF ENGINEER (ELECTRICAL)	Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E07

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT	
ELECTRICAL ENGINEERING DIRECTORATE	
THE GOVERNMENT OF THE REPUBLIC OF KENYA	





1ST FLOOR PLAN  
(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	11	Single Phase Air Conditioner (AC) Power Point
	22	Single Phase Air Circulating Fan Power Point, 1kW c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240T1
	4	8 way SPN Consumer Unit c/w 80A DP Integral Isolator, Recessed
	1	12 Way Type B TPN Distribution Board c/w 150A TPN+E Integral Isolator, DB1F for First Floor, Recessed
	4	45A DP Control Switch with Neon Pilot Lamp for Instantaneous Shower Unit
	3	45A DP Control Switch with Neon Pilot Lamp for Undersink Water Heater Unit
	2	DSTV Explora Decoder Unit (STB) c/w all accessories
	7	Single Phase Toilet Extract Fan Power Point, 1kW c/w a suitably rated 240V single-phase Surge Diverter as Furse ESP 240
	2	8 way 4K HDMI Signal Splitter c/w remote control and all necessary accessories as Vention, Sony or equal and approved equivalent
	8	HDMI 2.1 (eARC) Wall Plate Outlet c/w Female-Female (F/F) Coupler (Connector)
	4	Hand Dryer Unit Power Point
	4	Single Phase Isolator Point
	5	Nurse Call Intercom Power Point
	3	Undersink Instantaneous Water Heater Power Point c/w 45A DP Control Switch
	8	Digital Television (DTV) Outlet/Power Point
	67	13A Twin Switched Socket Outlet
	1	Three Phase Isolator Point, 150A TPN
	4	4T Selector, 8000W Instantaneous Shower Unit Power Point
	1	13A Single Switched Socket Outlet, Waterproof (IP54)
	14	13A Twin Switched Socket Outlet, Waterproof (IP54)

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

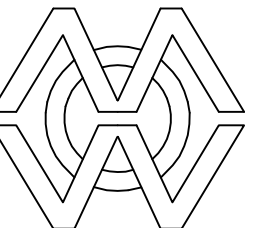
CONTRACT DRAWINGS - FIRST FLOOR ELECTRICAL POWER LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Othiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

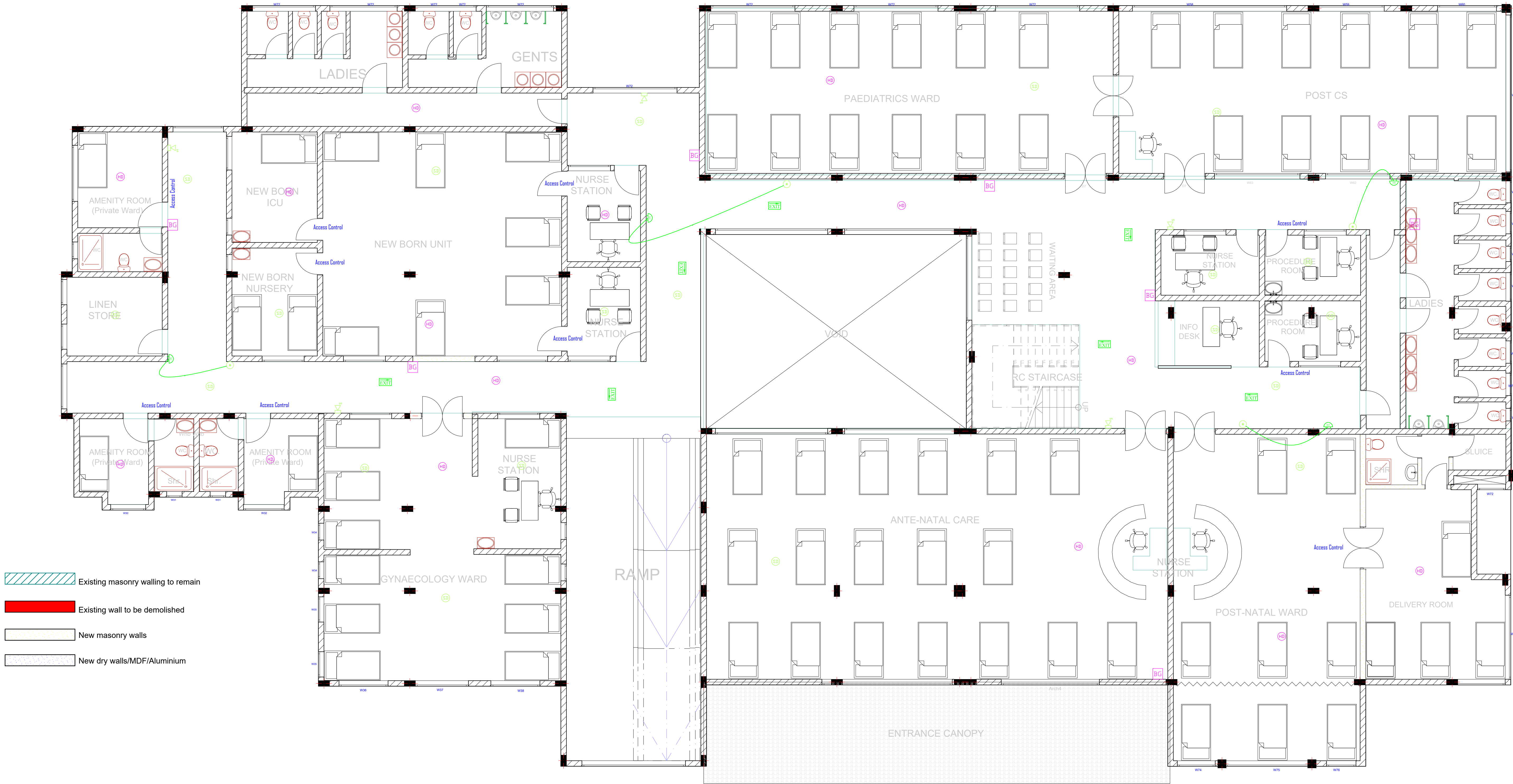
Approved Date

Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E08







1ST FLOOR PLAN  
(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	4	Emergency Bell Push Button
	16	Rate-of-Rise (ROR) Heat (Thermal) Detector Point
	20	Photoelectric Smoke Detector Point
	5	Fire Alarm Speaker for voice evacuation, White, Wall-mounted
	7	Addressable Manual Fire break glass or Manual Call Point as MENVIER or Approved Equivalent
	7	Type EXIT Luminaire as per Particular Specifications
	4	Fire Alarm Bell

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

CONTRACT DRAWINGS - FIRST FLOOR FIRE DETECTION & ALARM LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

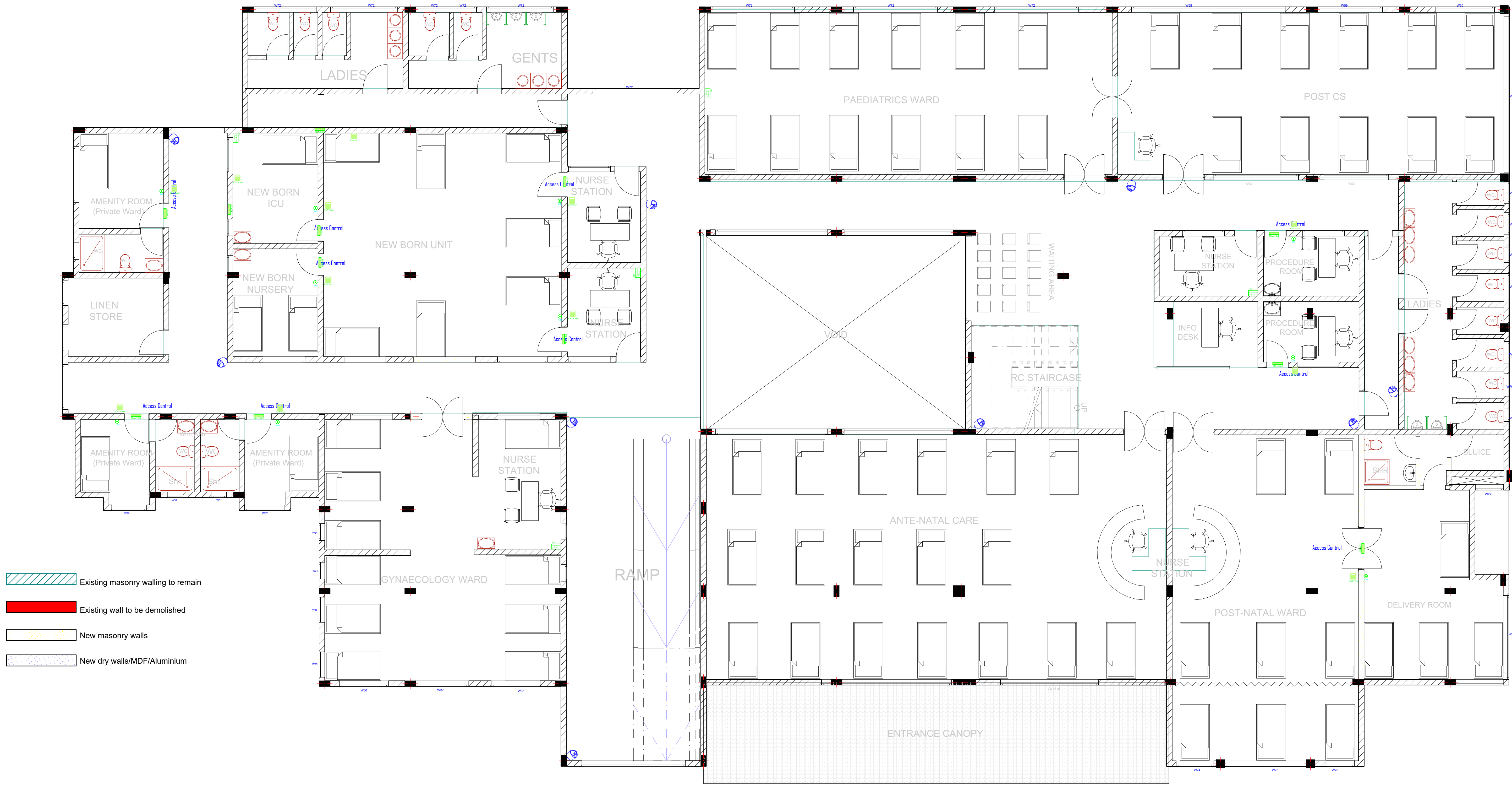
Approved Date

Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E09

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT	
ELECTRICAL ENGINEERING DIRECTORATE	
THE GOVERNMENT OF THE REPUBLIC OF KENYA	





Existing masonry walling to remain  
Existing wall to be demolished  
New masonry walls  
New dry walls/MDF/Aluminium

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	1	22U Metal Equipment Cabinet as per Particular Specifications, Wall-mounted
	4	9U Metal Equipment Cabinet as per Particular Specifications, Wall-mounted
	9	Dome Camera Point
	12	A 300Kg-force Magnetic Door Lock
	12	Fully accessorised proximity card reader complete with biometric finger print reader, iris scanner and keypad
	10	Magnetic Lock Deactivation/Override Button

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

## W.P. Item No. & Job No.:

W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

## Client Ministry/Department:

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

## Client Signature & Code:

## Title:

CONTRACT DRAWINGS - FIRST FLOOR CCTV & ACCESS CONTROL LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved Date

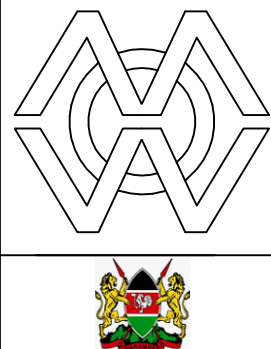
Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E10

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

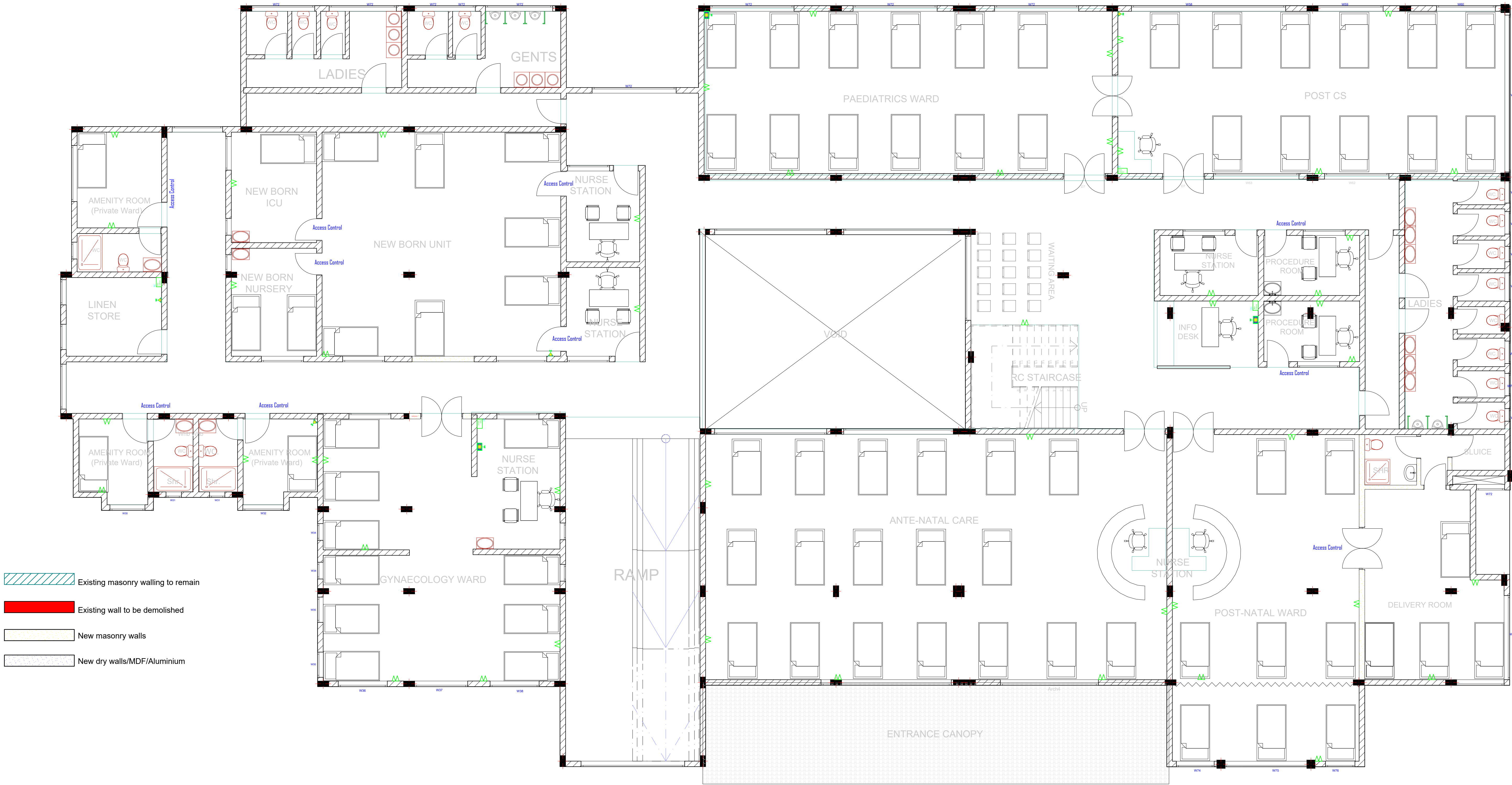
ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA



## 1ST FLOOR PLAN (Scale: NTS)





Existing masonry walling to remain  
Existing wall to be demolished  
New masonry walls  
New dry walls/MDF/Aluminium

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	1	22U Data Cabinet as per particular specifications
	3	9U Data Cabinet as per particular specifications
	4	Wireless Access Point (AP)/Range Extender Point
	3	Wi-Fi Router/Access Point
	49	IP Telephone/Data Twin Outlet

1ST FLOOR PLAN  
(Scale: NTS)

NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301    JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

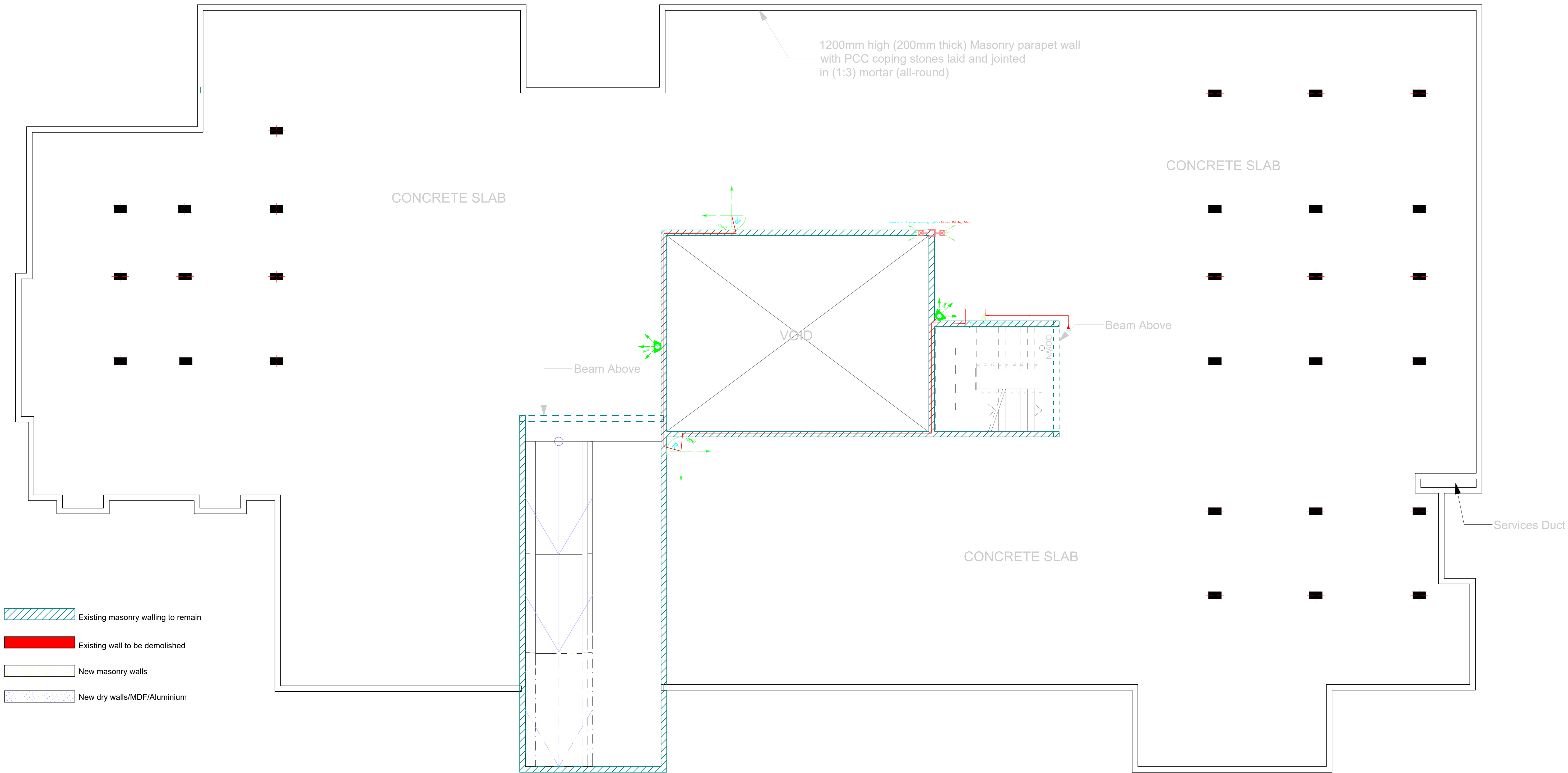
**Title:**  
CONTRACT DRAWINGS - FIRST FLOOR STRUCTURED CABLING & IP EPABX LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved \_\_\_\_\_ Date \_\_\_\_\_  
  
Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed \_\_\_\_\_

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E11





- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	1	Dusk-to-dawn,5400W/6000VA Max. (25A), Programmable Twist-Lock Photocell Light Sensor Switch, wall or pole surface mounted
	2	Type K Lighting Fixture as per Particular Specifications
	2	Type R Lighting Fixture as per Particular Specifications
	1	Type U Lighting Fixture as described in Particular Specifications

ROOF SLAB PLAN  
(Scale: NTS)

NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

REVISIONS			
S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301    JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

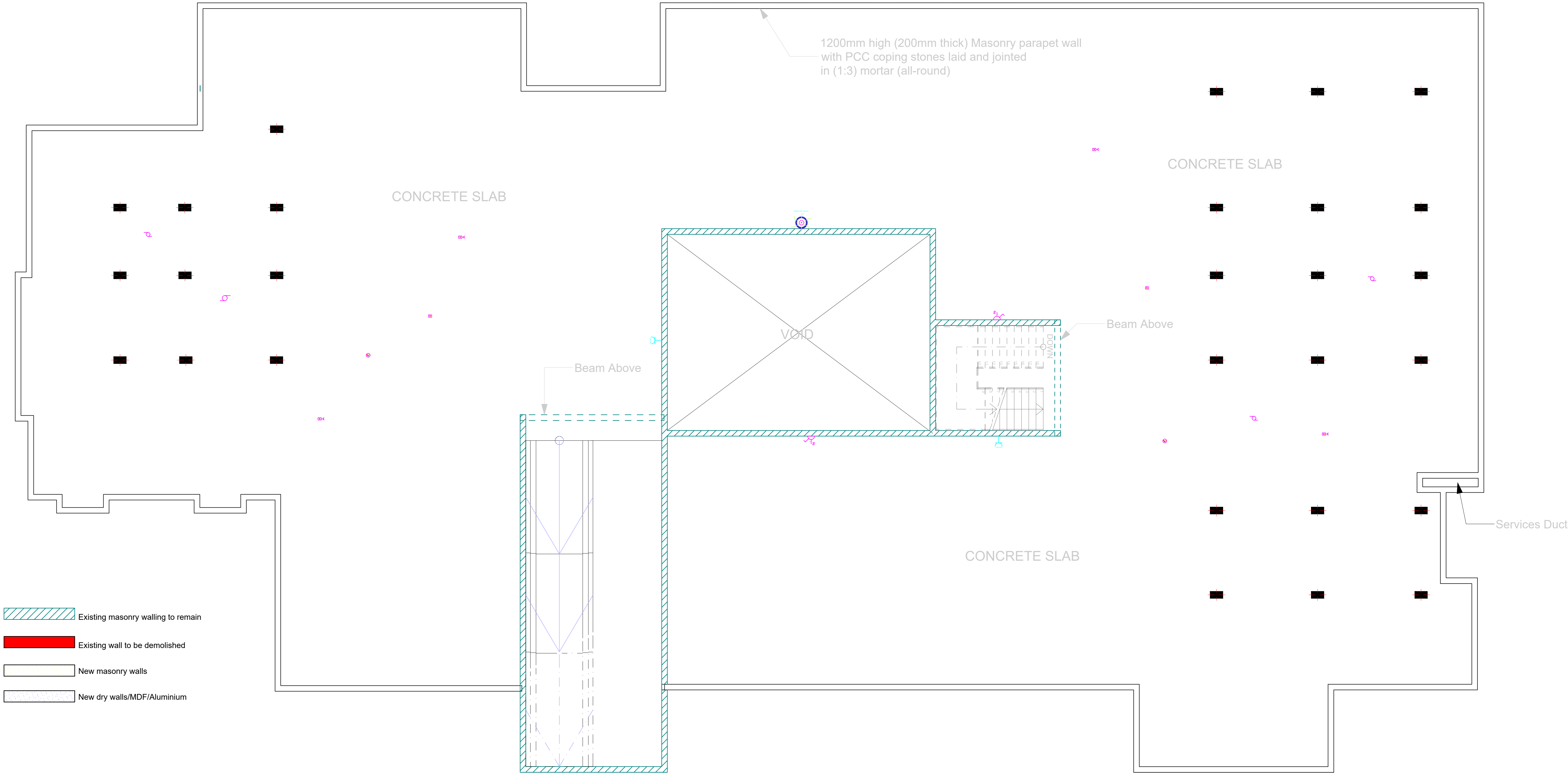
**Title:**  
CONTRACT DRAWINGS - ROOF TERRACE ELECTRICAL LIGHTING LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved		Date	
Eng. (Dr.) A. G. Kihuga			
CHIEF ENGINEER (ELECTRICAL)		Signed	
Scale	Date	Drawing No.	
NTS	December, 2023	Elect - MSH - E12	

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT	
ELECTRICAL ENGINEERING DIRECTORATE	
THE GOVERNMENT OF THE REPUBLIC OF KENYA	





- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

# ROOF SLAB PLAN

(Scale: NTS)

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
	2	Single Phase Air Handling Unit (AHU) Power Point
	2	Three Phase Air Handling Unit (AHU) Power Point
	3	Single Phase, 1.35kW Water Booster Pump (Motor) Power Point
	1	Centralised Digital Satellite Television (DSTV) Dish Antenna c/w in-built Smart LNB
	4	Single Phase Solar Water Heater Power Point
	2	5-Pin (TPN+E), 32A Industrial, IP65 Three Phase Socket Outlet
	1	Water Booster Pump (3-Phase) Power Point, 3kW c/w a suitably rated 415V three-phase Surge Diverter as Furse ESP 415
	2	13A Twin Switched Socket Outlet, Waterproof (IP54)

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

**Title:**  
CONTRACT DRAWINGS - ROOF TERRACE ELECTRICAL POWER LAYOUT

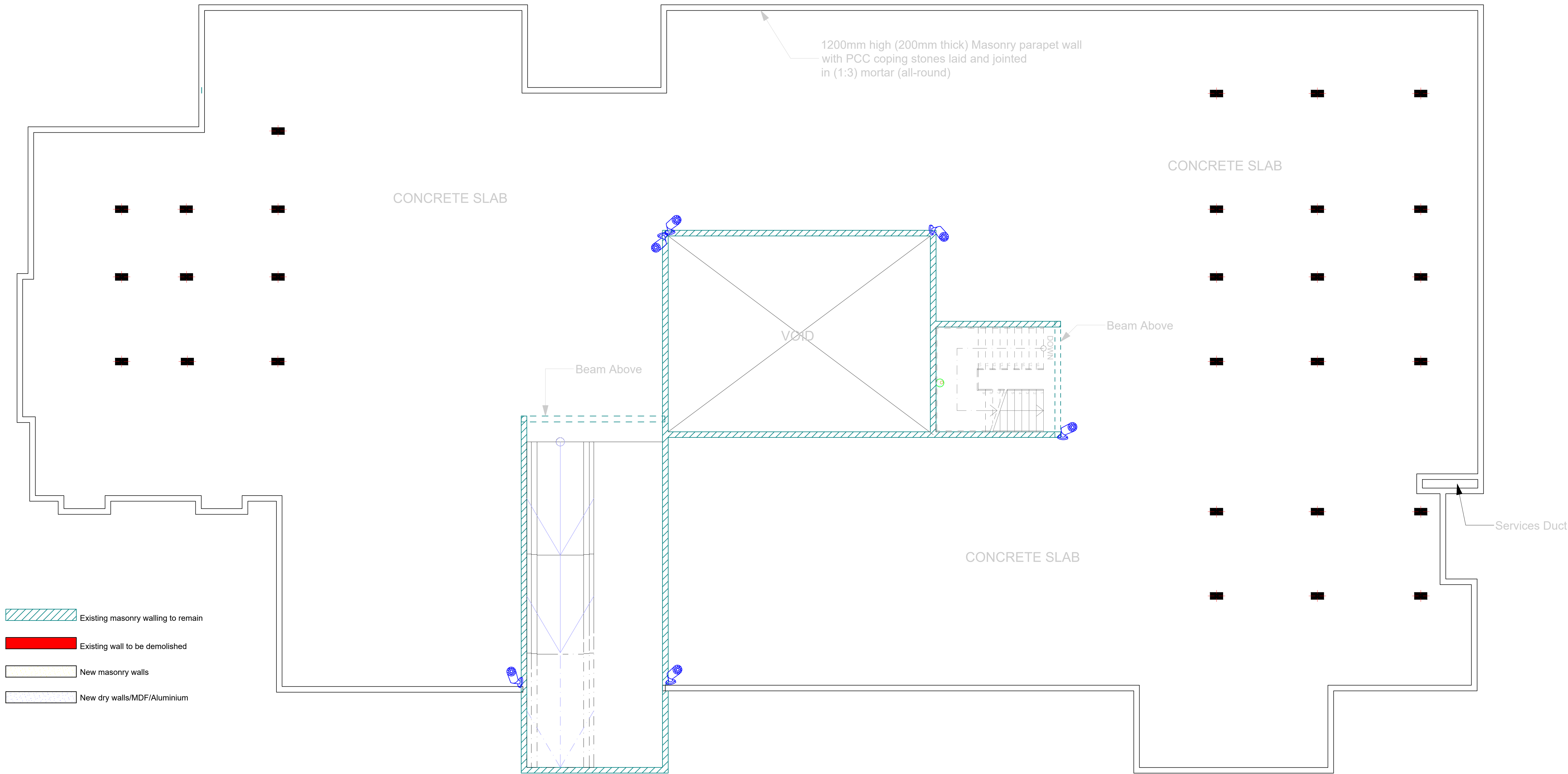
	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved Date

Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E13





- Existing masonry walling to remain
- Existing wall to be demolished
- New masonry walls
- New dry walls/MDF/Aluminium

1200mm high (200mm thick) Masonry parapet wall with PCC coping stones laid and jointed in (1:3) mortar (all-round)

CONCRETE SLAB

VOID

Beam Above

Beam Above

CONCRETE SLAB

Services Duct

ELECTRICAL EQUIPMENT & DEVICE SCHEDULE		
Symbol	Qty	Description
📡	6	Bullet Camera Point
📡	1	PTZ Camera Point

# ROOF SLAB PLAN

(Scale: NTS)

## NOTES

- All conduits must be laid before plastering.
- All dimensions are in mm unless otherwise stated.
- All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
- All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
- All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
- All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
- All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
- Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
- This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
- All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
- This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301 JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

**Title:**  
CONTRACT DRAWINGS - ROOF TERRACE CCTV SURVEILLANCE LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved \_\_\_\_\_ Date \_\_\_\_\_

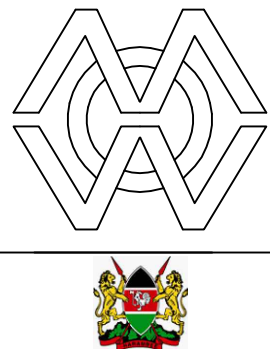
Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed \_\_\_\_\_

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E14

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT

ELECTRICAL ENGINEERING DIRECTORATE

THE GOVERNMENT OF THE REPUBLIC OF KENYA





## NOTES

1. All conduits must be laid before plastering.
2. All dimensions are in mm unless otherwise stated.
3. All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
4. All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
5. All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
6. All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
7. All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
8. Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention should be paid to items' particulars.
9. This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
10. All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
11. This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

## REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

## Project:

PROPOSED COMPLETION AND MODIFICATION OF  
THE COVID-19 ISOLATION WARD TO AN  
EMERGENCY AND FAMILY HOSPITAL, MAKUENI  
COUNTY (PHASE II)

**W.P. Item No. & Job No.:**

W.P. NO. D1081 EN/MKN/2301    JOB NO. 11373A

**Client Ministry/Department:**

GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT  
OF HEALTH SERVICES.

**Client Signature & Code:**

**Title:**

CONTRACT DRAWINGS - CENTRALISED DIGITAL  
SATELLITE TELEVISION LAYOUT

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved \_\_\_\_\_ Date \_\_\_\_\_

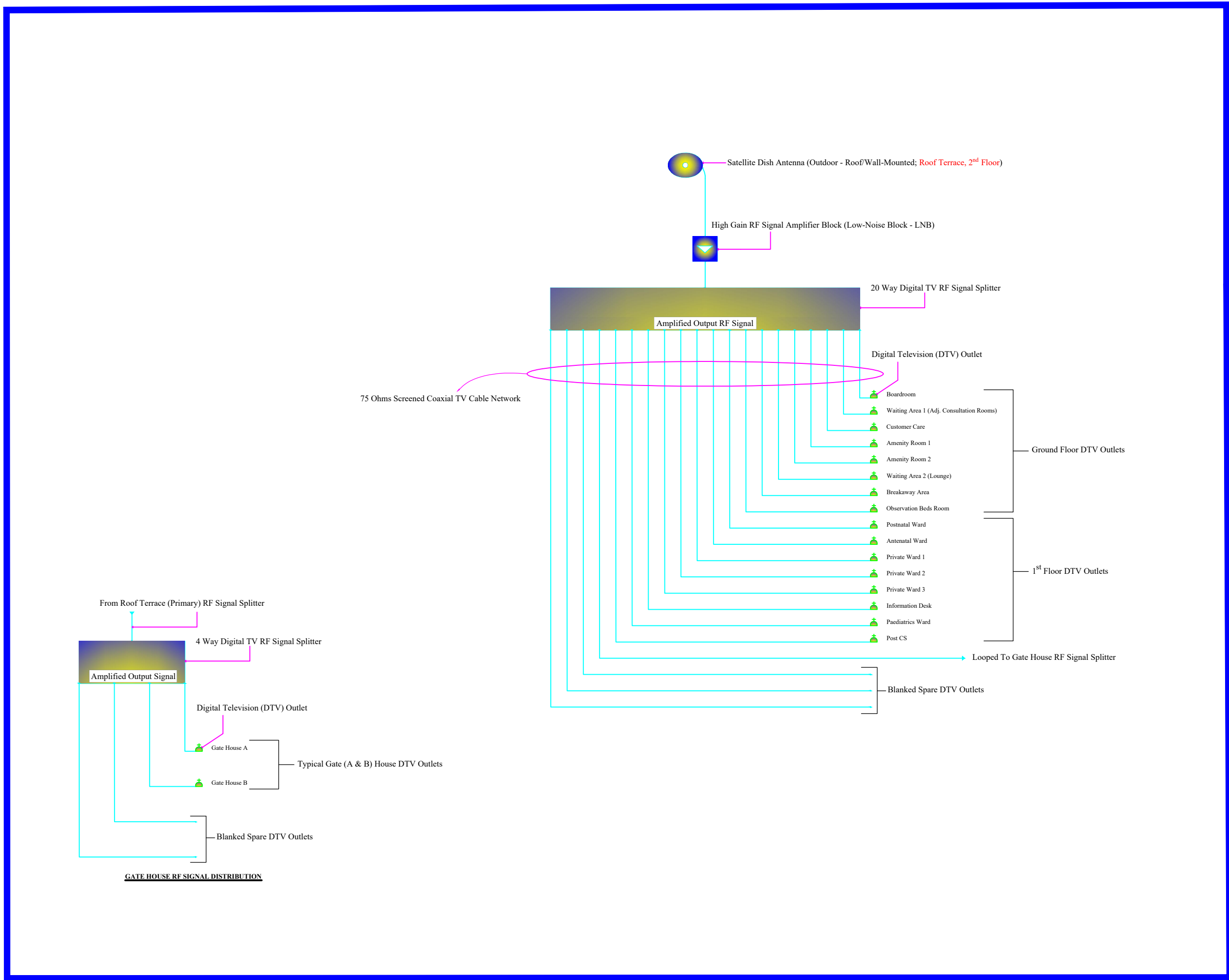
Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)** Signed

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E15

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING & URBAN DEVELOPMENT	
---	---

ELECTRICAL ENGINEERING DIRECTORATE

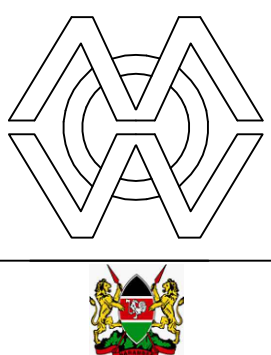
THE GOVERNMENT OF THE REPUBLIC OF KENYA



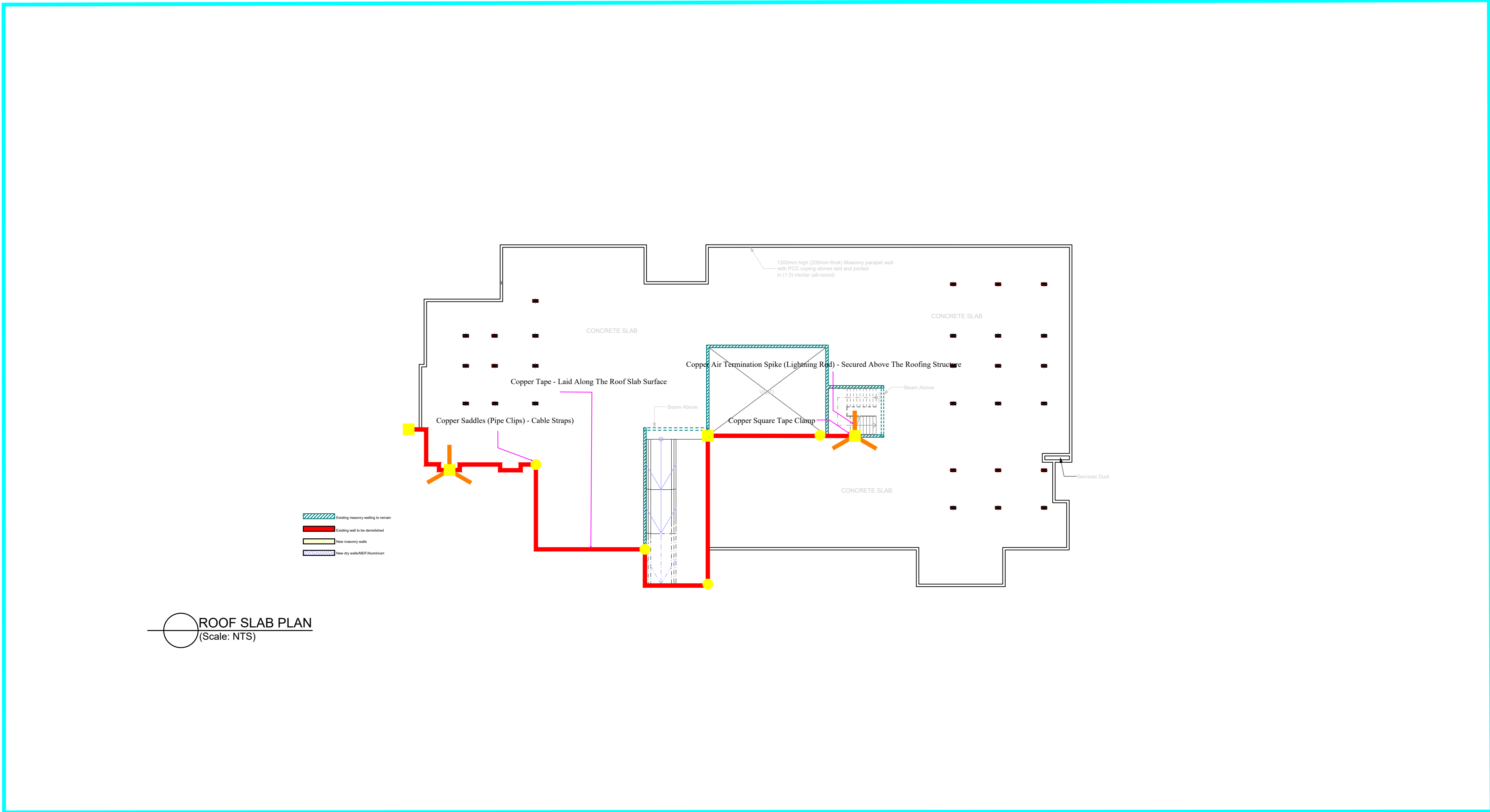
## CENTRALISED SATELLITE DTV ANTENNA SYSTEM - RF SIGNAL (RG6 COAXIAL CABLE)



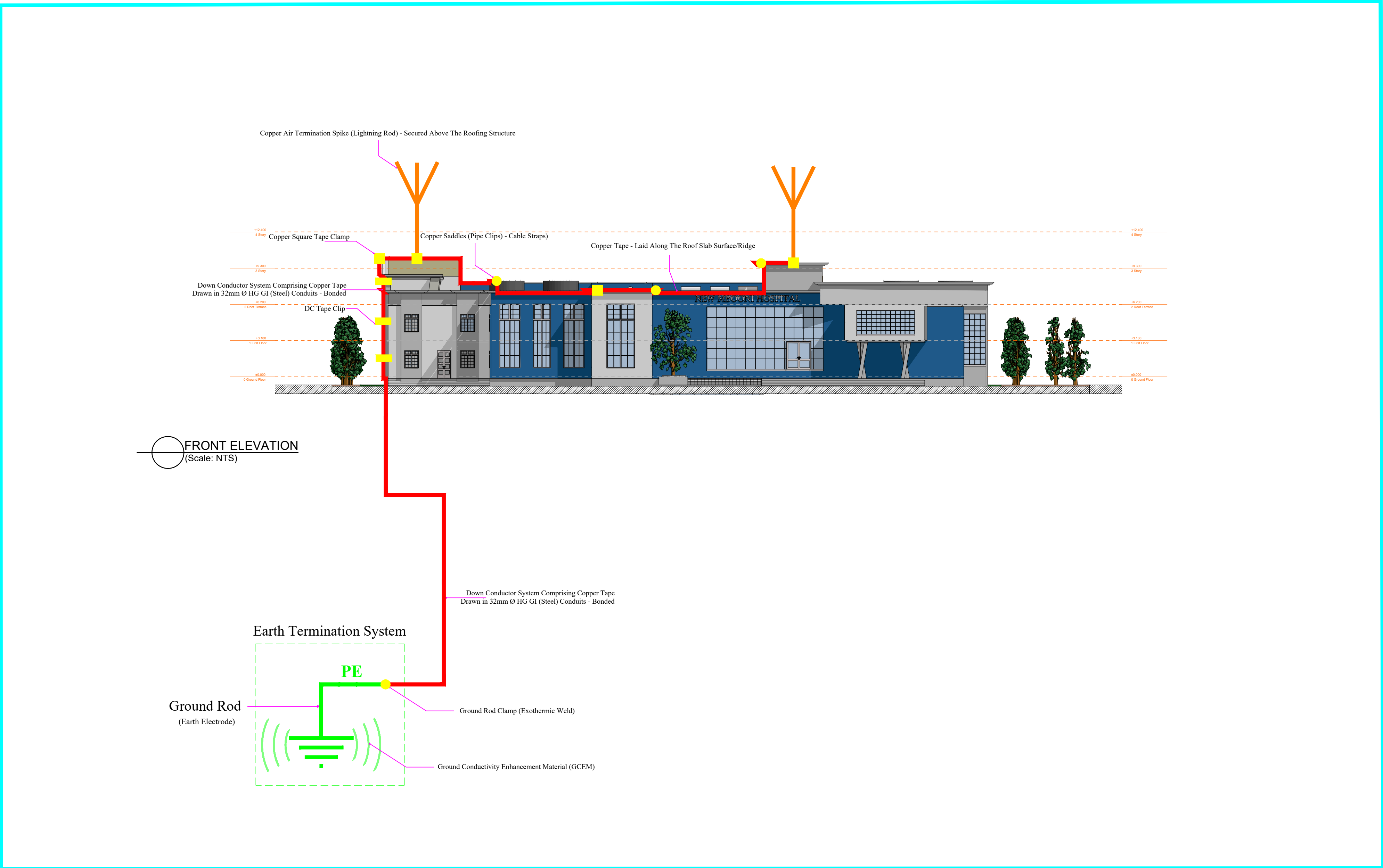
## CENTRALISED SATELLITE DECODER (STB) SYSTEM - AV SIGNAL (HDMI CABLE)







LIGHTNING ARRESTOR SYSTEM SCHEMATICS - ROOF PLAN



LIGHTNING ARRESTOR SYSTEM SCHEMATICS - FRONT ELEVATION

NOTES

1. All conduits must be laid before plastering.
2. All dimensions are in mm unless otherwise stated.
3. All lighting switches shall be mounted at the height of 1350mm AFFL unless otherwise stated.
4. All socket outlets shall be mounted at the height of 350mm AFFL unless otherwise stated.
5. All distribution boards and consumer units shall be mounted at the height of 1800mm AFFL unless stated otherwise.
6. All lighting circuits shall be 3X1.5 sq.mm PVC SC copper cables unless otherwise specified.
7. All ring mains circuits shall be 3X2.5 sq.mm PVC SC copper cables unless otherwise specified.
8. Some symbols used are simply artistic and just a semblance of the devices or objects represented. Attention shall be paid to items' particulars.
9. This drawing shall be read in conjunction with the Architect's and Structural/Civil/Mechanical Engineers'.
10. All works to be carried out in accordance with relevant building codes and practices and consistent with local authority requirements.
11. This drawing is a sole property of State Department for Public Works (Electrical Engineering Directorate). Commercial Use or Duplication Shall require Express Authorization.

REVISIONS

S/N	Date	Description	Initials
1.			
2.			
3.			

**Project:**  
PROPOSED COMPLETION AND MODIFICATION OF THE COVID-19 ISOLATION WARD TO AN EMERGENCY AND FAMILY HOSPITAL, MAKUENI COUNTY (PHASE II)

**W.P. Item No. & Job No.:**  
W.P. NO. D1081 EN/MKN/2301    JOB NO. 11373A

**Client Ministry/Department:**  
GOVERNMENT OF MAKUENI COUNTY - DEPARTMENT OF HEALTH SERVICES.

**Client Signature & Code:**

**Title:**  
CONTRACT DRAWINGS - ROOF PLAN & FRONT ELEVATION LIGHTNING PROTECTION SCHEMATICS

	Name	Sign	Date
Drawn/Designed	V. Odhiambo		DEC, 2023
Checked	D. Ouya		DEC, 2023

Approved \_\_\_\_\_ Date \_\_\_\_\_

Eng. (Dr.) A. G. Kihuga  
**CHIEF ENGINEER (ELECTRICAL)**      Signed \_\_\_\_\_

Scale	Date	Drawing No.
NTS	December, 2023	Elect - MSH - E16