

**LEGEND**

	100W LED DOWNLIGHT
	100W LED SURFACE MOUNTED
	100W LED RECESSED
	100W LED EMERGENCY
	100W LED EMERGENCY
	100W LED EMERGENCY
	100W LED EMERGENCY
	100W LED EMERGENCY
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	100W LED EMERGENCY
	100W LED EMERGENCY
	100W LED EMERGENCY

**NOTES**

1. DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

2. DRAWING MUST BE REFERENCED AGAINST ALL INSTRUMENTS.

3. ALL EQUIPMENT POINTING TO BE PROVIDED ON SITE.

4. ALL EQUIPMENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER.

5. DUAL PROLET INSTALLATION FOR EMERGENCY LIGHTING.

No.	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

33C LAINGUBALELE ST  
PIETERMARITZBURG  
6001

TEL: 033 375 2111

Discipline	Name	Signature	Date

**CONSULTANT**

**ISENZKO ENGINEERING**

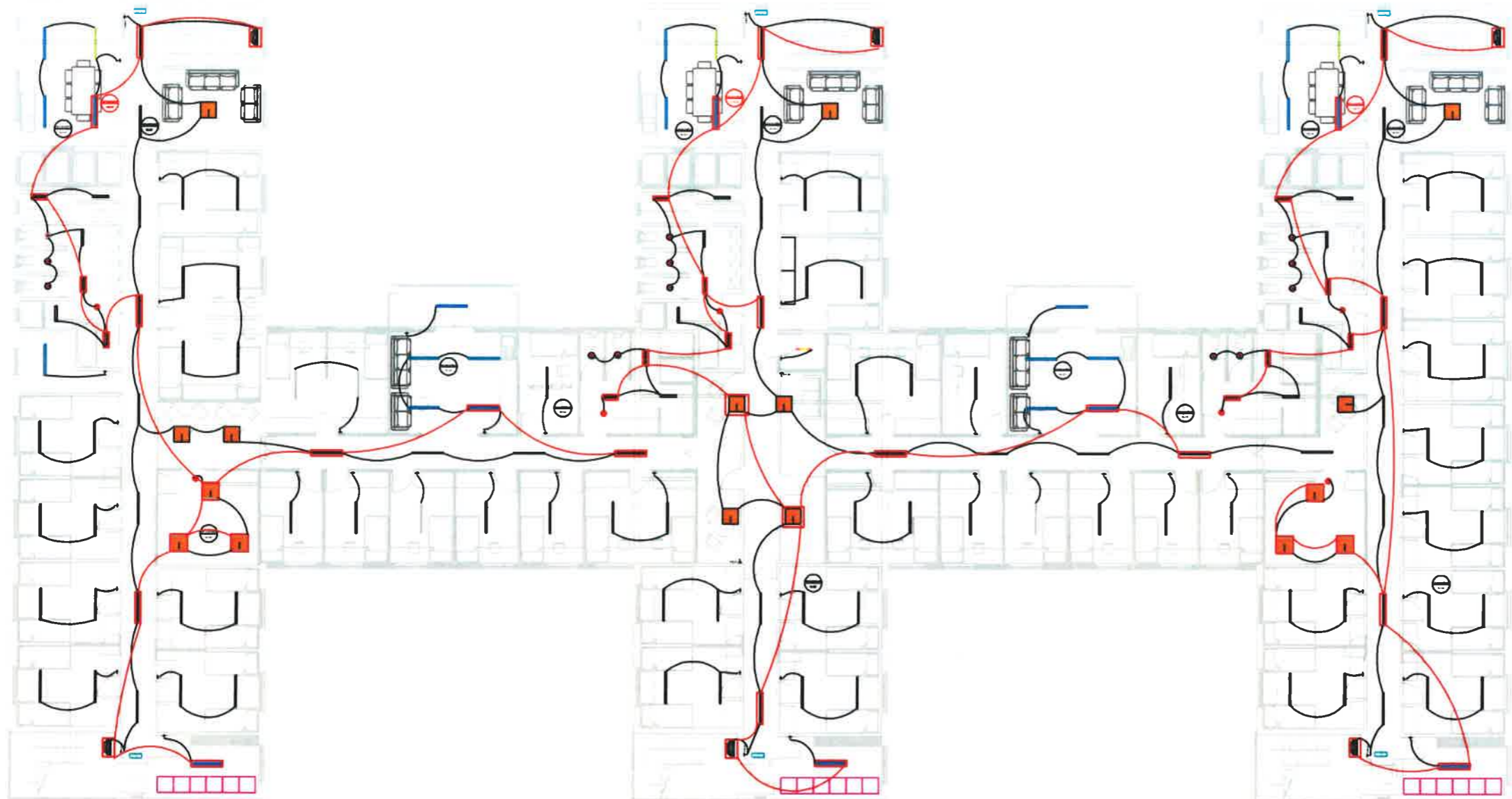
TEL: 031 922 0291  
EMAIL: info@isenzeko.co.za

**DISCIPLINE**  
ELECTRICAL

**SERVICE**  
REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING

**DRAWING TITLE**  
TENDER  
LIGHTING LAYOUT FF

SCALE	DESIGNER	CHECKER	DATE	THROWING
NYS	D.G.		JUL 2021	V.H.
<b>BUILDING</b> MADADENI HOSPITAL - STUDENT ACCOMMODATION		<b>DRAWING No.</b> MNSA-FF-LL-REV000		



### LEGEND

	ADD 4 WIG DIMMER MOUNTED LED 1W PANEL
	ADD 4 WIG DIMMER MOUNTED LED 11 W PANEL
	TRAVA ACQU SURFACE MOUNTED LED 1W PANEL
	TRAVA ACQU SURFACE MOUNTED LED 1W PANEL
	TRAVA ACQU SURFACE MOUNTED LED 1W PANEL
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### NOTES

- DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL MECHANICAL CIVIL STRUCTURAL ETC.
- DRAWING MUST BE REFERENCED AGAINST ALL PRECEDENT.
- ALL EQUIPMENT PERTAINING TO BE PROVIDED BY THE OWNER.
- ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER.
- DUAL CIRCUIT INSTALLATION FOR EMERGENCY LIGHTING.

No.	REVISION	DATE	ZONE	BY

**CLIENT**



**KWAZULU-NATAL HEALTH**  
330 LAMOLA LALELE ST  
PIETERMARITZBURG  
3201  
TEL: 033 395 2111

Organization	Name	Position	Date

**CONSULTANT**



**ISENZEKO ENGINEERING**  
TEL: 031 52 2241  
EMAIL: info@izenzeko.co.za

**DISCIPLINE**  
ELECTRICAL

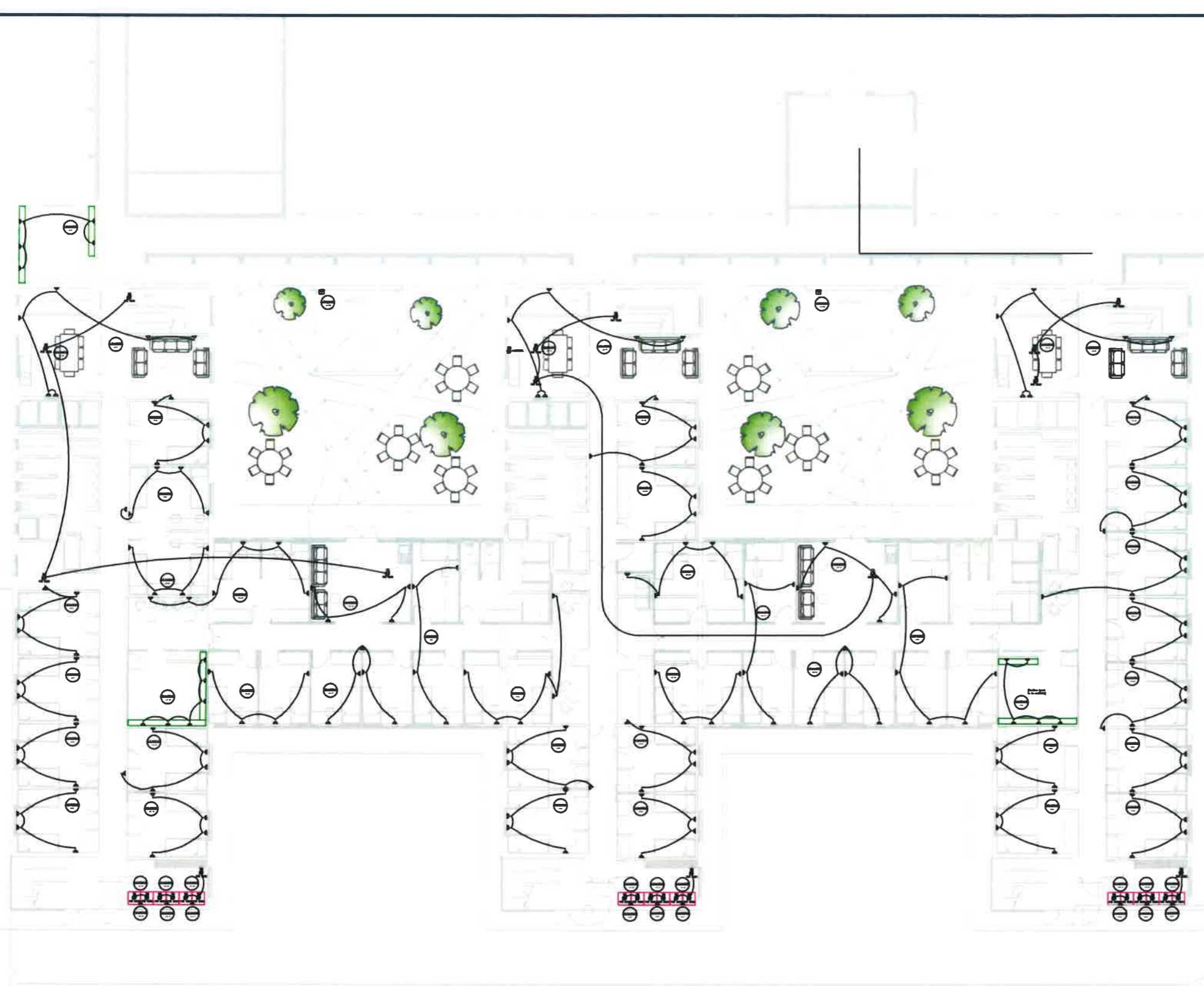
**SERVICE**  
REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING

**DRAWING TITLE**  
TENDER  
LIGHTING LAYOUT SF

SCALE	DRAWN	DATE	CHECKED
NTS	D.C.	JUL 2021	V.H.

**BUILDING**  
MADABENI HOSPITAL - STUDENT ACCOMMODATION

**DRAWING FILE**  
MHSA-SF-LL-REV000



**LEGEND**

	DOUBLE SWITCHED SOUTH AFRICAN - EURO STANDARD SOCKET
	SINGLE PHASE ISOLATOR SWITCH
	10A 3PIN SWITCHED OUTLET
	DOUBLE SWITCHED SOUTH AFRICAN - EURO STANDARD SOCKET WITH SINGLE SWITCHED USB SOCKET
	DOUBLE SWITCHED SOUTH AFRICAN - EURO STANDARD SOCKET
	3 PHASE ISOLATOR SWITCH
	10A 3PIN SWITCHED IED - IN POWER POINT
	2 COMPARTMENT ALUMINIUM POWER SOCKET

**NOTES**

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, SANITARY, STRUCTURAL, ETC.

DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT NOTING TO BE FINALIZED ON SITE

ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE OWNER

NO.	REVISION	DATE	EDR	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

357 LAHAGALBALE TT  
PIETERMARITZBURG  
3227  
TEL: 033 395 2111

Organization	Name	Position	Role

**CONSULTANT**

**ISENZEKO ENGINEERING**

TEL: 031 552 0201  
E-MAIL: info@isenzeko.co.za

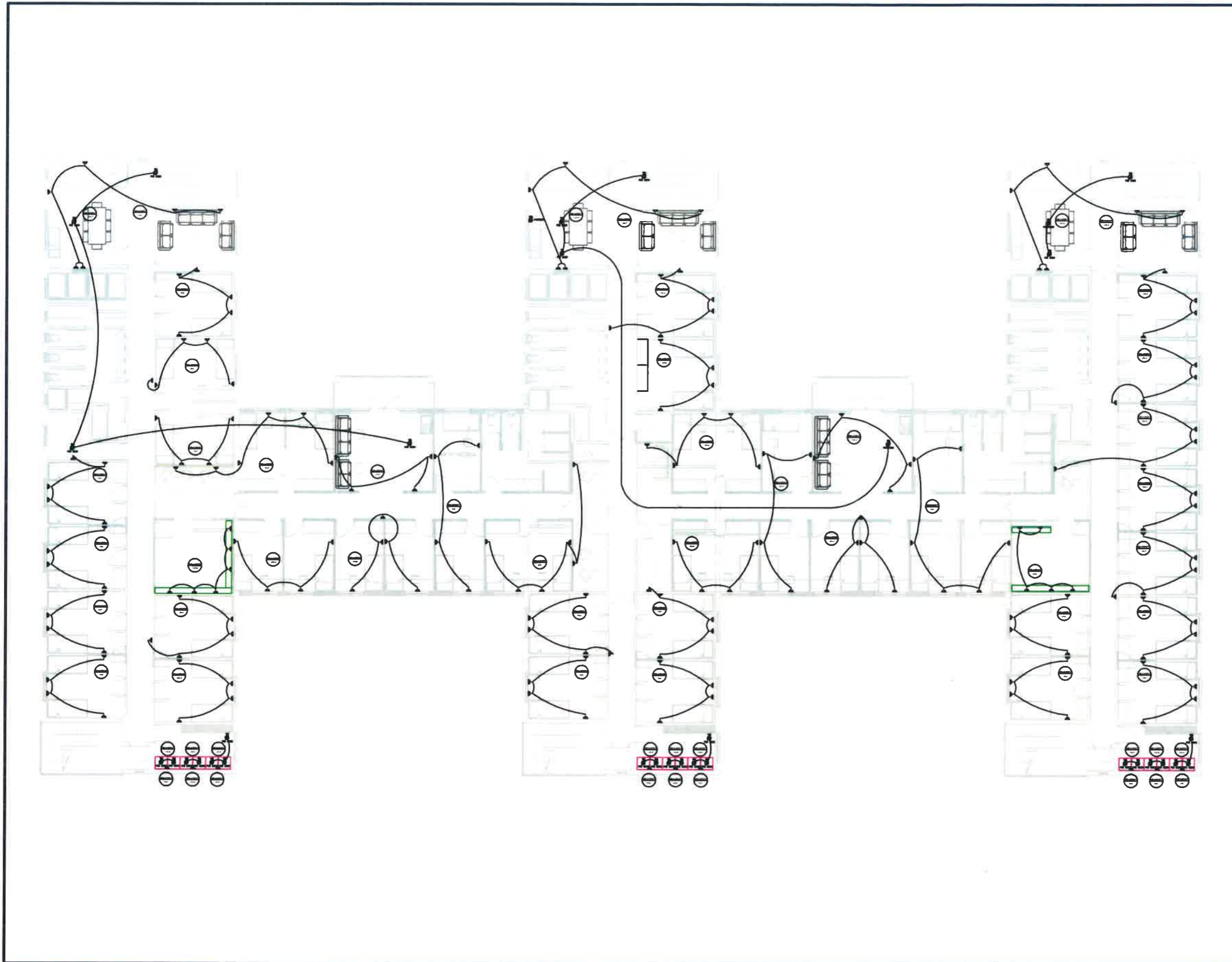
**DISCIPLINE**  
ELECTRICAL

**SERVICE**  
REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING

**DRAWING TITLE**  
TENDER  
SMALL POWER LAYOUT GF

SCALE	DESIGNER	DATE	CHECKED
NTS	D.G	JUL 2021	V.H

BUILDING	DRAWING NO.
NADADENI HOSPITAL - STUDENT ACCOMMODATION	MHSA-GF-SP REV000



**LEGEND**

- DOUBLE SWITCHED SOUTH AFRICAN EURO STANDARD SOCKET
- SINGLE PHASE ISOLATOR SWITCH
- 1/6A 1P+N SWITCHED SOCKET
- DOUBLE SWITCHED SOUTH AFRICAN EURO STANDARD SOCKET WITH SINGLE SWITCHED USB SOCKET
- DOUBLE SWITCHED SOUTH AFRICAN EURO STANDARD SOCKET
- 3 PHASE ISOLATOR SWITCH
- 1/6A 1P+N SWITCHED 800-IPR POWER MATING
- 2 COMPARTMENT ALL WINDUP POWER SAVING

**NOTES**

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DRAWINGS MUST BE REFERENCED AGAINST ALL SPECIFICATIONS.

ALL EQUIPMENT FUNCTIONING TO BE FINALIZED ON SITE.

ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER.

NO.	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

537 LAUG ALIBALELE ST  
PIETERMARITZBURG  
3201  
TEL: 031 295 2111

DISCIPLINE	NAME	SIGNATURE	DATE

**CONSULTANT**

**ISENZEKO ENGINEERING**

TELEFAX: 031 562 0251  
EMAIL: isenzeko@isezeko.co.za

**DISCIPLINE**  
ELECTRICAL

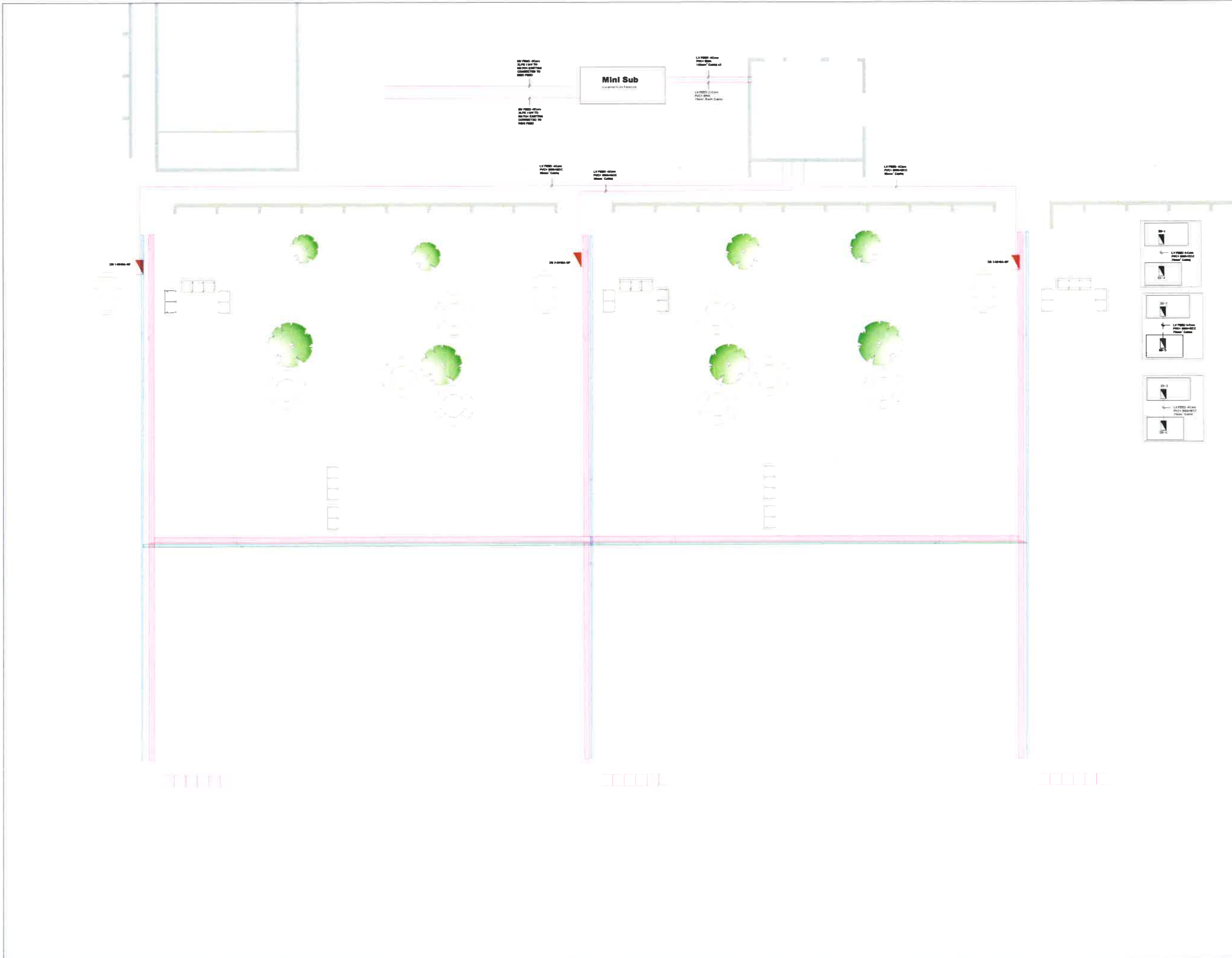
**SERVICE**  
REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING

**DRAWING TITLE**  
TENDER  
SMALL POWER LAYOUT FF

DATE	DATE	CHECKED

**BUILDING**  
MADADENI HOSPITAL - STUDENT ACCOMMODATION

**DRAWING No.**  
MHSA-FF-SP REV000



LEGEND	
	DISTRIBUTION BOARD
	300MM CABLE TRAY
	200MM WIRE MESH

NOTES	
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ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE	
ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER	

No	REVISION	DATE	ZONE	BY

CLIENT:



**KWAZULU-NATAL HEALTH**  
 330 LANGALBALELE ST,  
 PETERMARITZBURG  
 3201  
 TEL: 033 395 2111

DESIGNATION	NAME	SIGNATURE	DATE

CONSULTANT



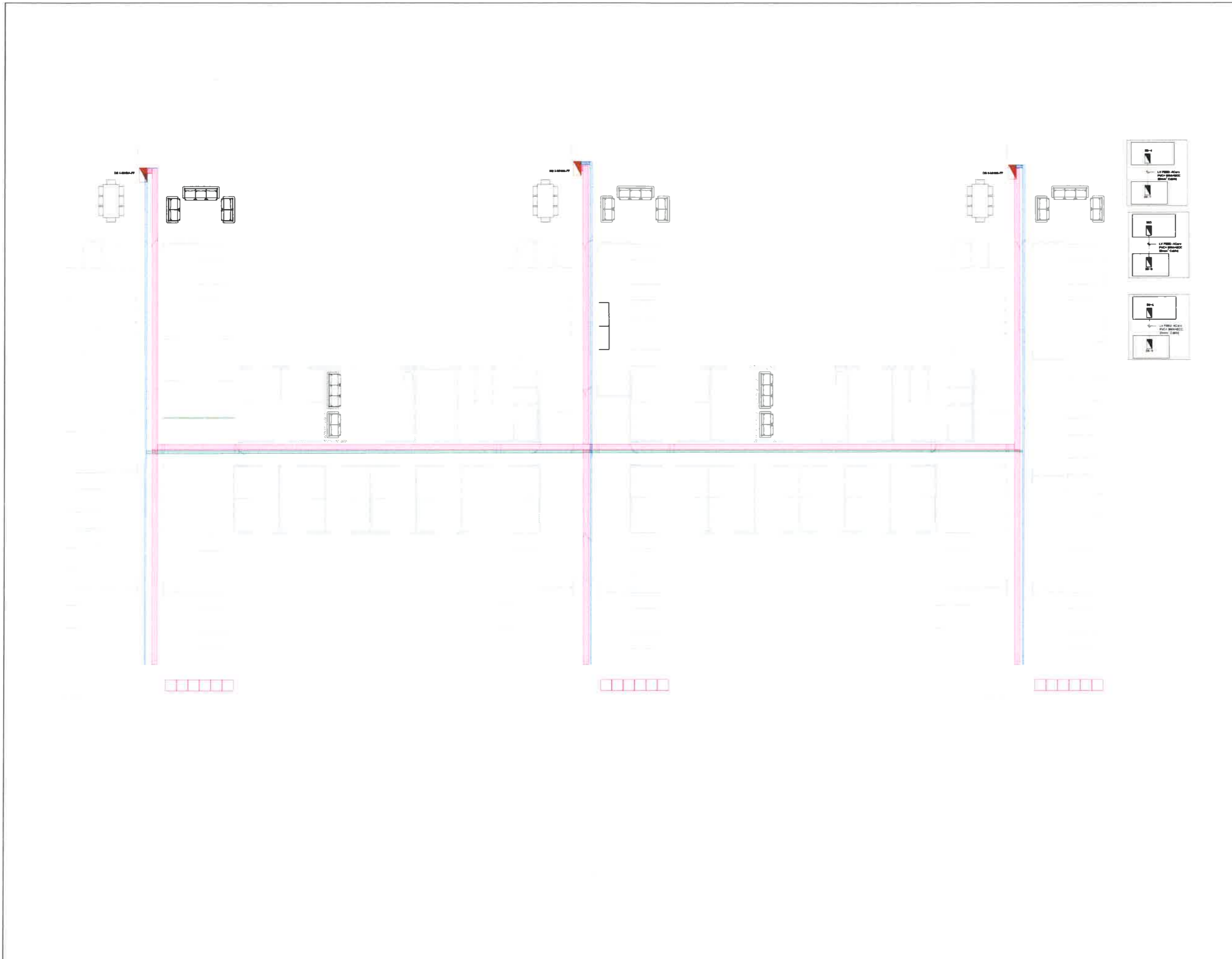
**ISENZEKO ENGINEERING**  
 TELEFAX : 031 562 0291  
 E-MAIL : [isenzeko@isenzeko.net](mailto:info@isenzeko.net)

DISCIPLINE  
**ELECTRICAL**

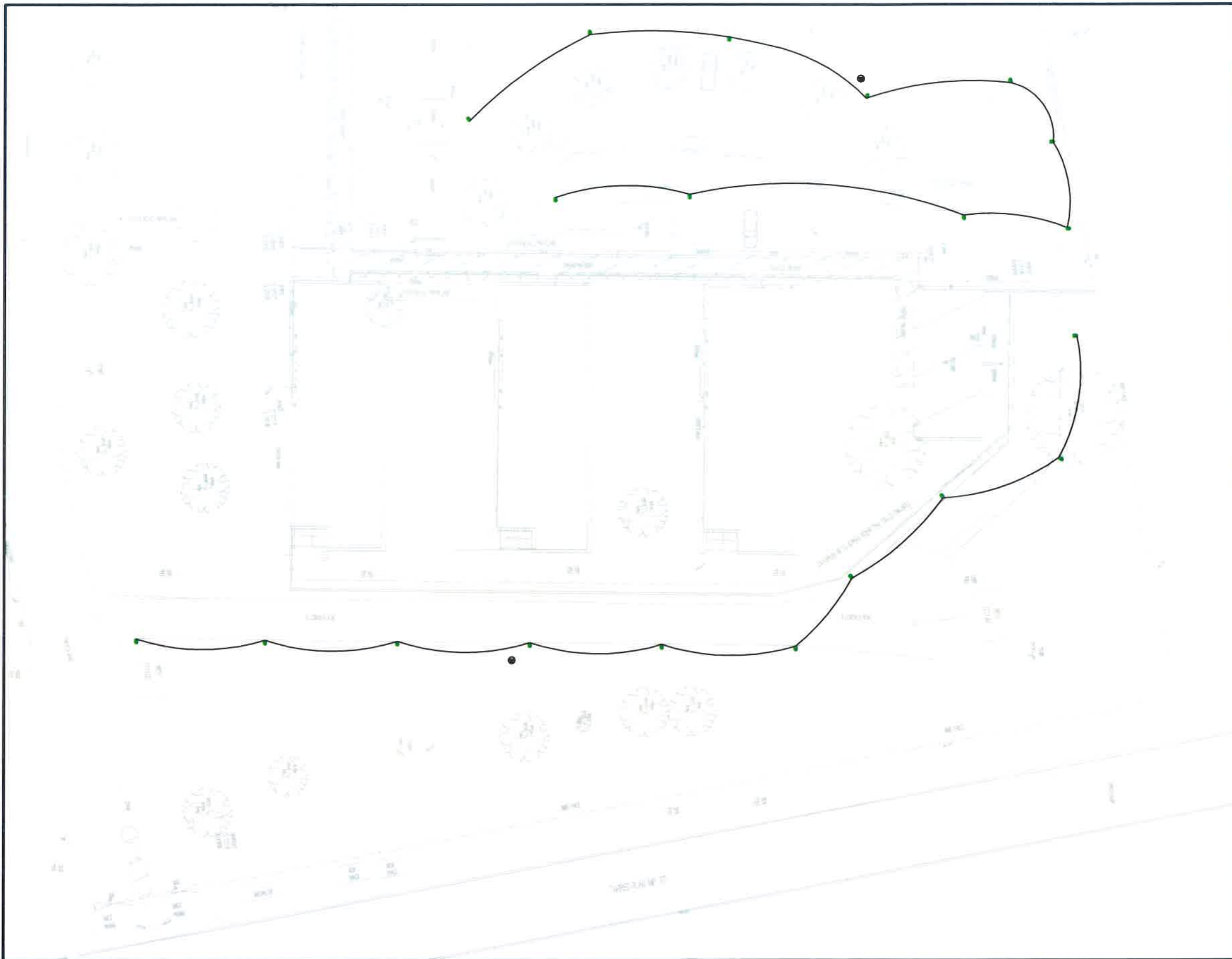
SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER  
 DB , CABLE TRAY & CABLE ROUTE  
 LAYOUT GF**

SCALE	DATE	BY	CHECKED
NTS	D.G	JUN 2021	V.H
BUILDING	DRAWING No		
MADADENI HOSPITAL - NURSING ACCOMMODATION	MHSA-GF-DB-CT-CR-REV000		



LEGEND																												
	DISTRIBUTION BOARD																											
	300MM CABLE TRAY																											
	200MM WIRE MESH																											
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<p>CLIENT:</p> <div style="display: flex; align-items: center;"> <div> <p><b>KWAZULU-NATAL HEALTH</b></p> <p>330 LANGALIBALELE ST. PIETERMARITZBURG 3201 TEL: 033 395 2111</p> </div> </div>																												
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<p>CONSULTANT:</p> <div style="display: flex; align-items: center;"> <div> <p><b>ISENZEKO ENGINEERING</b></p> <p>TELEFAX : 031 562 0291 E-MAIL : isenzeko@telkom.net</p> </div> </div>																												
DISCIPLINE <b>ELECTRICAL</b>																												
SERVICE <b>REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING</b>																												
DRAWING TITLE <b>TENDER DB, CABLE TRAY &amp; CABLE ROUTE LAYOUT FF</b>																												
SCALE NTS	DRAWN D.G	DATE JUN 2021	CHECKED V H																									
BUILDING MADADENI HOSPITAL - NURSING ACCOMMODATION		DRAWING No MHSA-FF-DB-CT-CR-REV000																										



**LEGEND**

Luma 11.7 x 11mm LED 25 Degree Light Beam Concrete slab on precast concrete (PCC) (SANS 10400-1)

2.5m x 10mm PCC (SANS 10400-1) BECCED 150A P/LC SHEATED (SANS 10400-1) (SANS 10400-1)

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**NOTES**

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ALL EQUIPMENT POSITIONING TO BE FINALISED ON SITE.

No	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

530 LAJICAUBALELE ST  
 FETERYAARIBUPG  
 5201  
 TEL: 033 395 2111

Original Date	Name	Signature	Date

**CONSULTANT**

**ISENZEKO ENGINEERING**

TELEFAX: 031 542 0291  
 EMAIL: isenzeko@fakom.net

**DISCIPLINE**  
**ELECTRICAL**

**SERVICE**  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

**DRAWING TITLE**  
**TENDER**  
**ACCESS ROUTE LIGHTING LAYOUT**

SCALE	DRAWN	CHECKED
N.T.S.	O.G.	V.H.

BUILDING	DRAWING No.
MADADEN HOSPITAL - STUDENT ACCOMMODATION	MADA-ARLL-REV000





LEGEND	
	ACCESS CONTROL - INKMETRICS SEMI-LITE, WULFVW-LITE
	WIFI EQUIPMENT - CEILING MOUNTED ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
	EMERGENCY ALARM POINTS ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
	DOME CAMERA ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
	DOME MOTORIZED BULLET CAMERA ON 3M STEEL POLE ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
	ELECTRO-MAGNETIC LOCK 12VDC
	MANUAL EMERGENCY CALL POINT

NOTES

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ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE CLIENT

No.	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**

230 LAHIGALBALE ST  
PIETERMARITZBURG  
3201  
TEL: 033 395 2111

Organization	Name	Signature	Date

CONSULTANT

**ISENZEKO ENGINEERING**

TEL: 031 562 2291  
EMAIL: isenzo@isenzeko.net

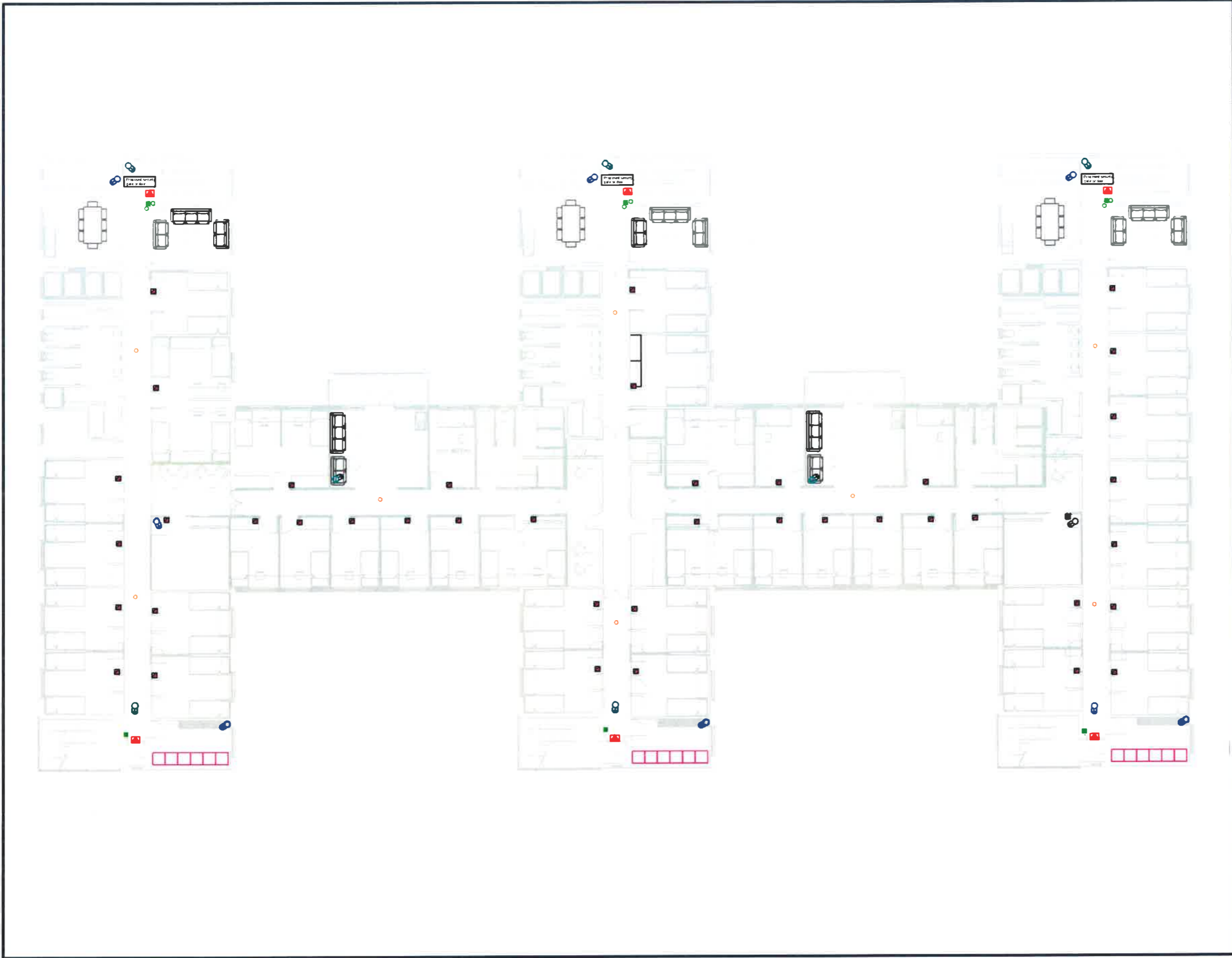
DISCIPLINE  
**ELECTRICAL**

SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER  
ELECTRONIC SERVICES LAYOUT GF**

SCALE	DATE	DATE	DATE
NTS	D.G.	JUL 2021	2/1

BUILDING	DRAWING No.
MADADENI HOSPITAL - STUDENT ACCOMMODATION	MHSA-GF-ELCT-REV000



**LEGEND**

- ACCESS CONTROL - BIOMETRIC  
SEPA LITE (M.A.T) IS - LITE
- WIFI EQUIPMENT - (80% REQUIRED)  
ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
- EMERGENCY ALARM POINTS  
ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
- IP VIDEO CAMERA  
ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
- KMP MOTORIZED BULLET CAMERA ON 1M STEEL POLE  
ALLOW FOR COMPLETE ROUTING INCLUDING INFRASTRUCTURE
- ELECTROMAGNETIC LOCK 12 VDC
- MANUAL EMERGENCY CALL POINT

**NOTES**

DRAWINGS MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

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ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE.

ALL EQUIPMENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER.

No.	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

130 LAINGALPALELE T  
PIETERMARITZBURG  
3201  
TEL: 032 393 2111

Organization	Name	Signature	Date

**CONSULTANT**

**ISENZEKO ENGINEERING**

TEL: 031 562 0291  
E-MAIL: isenzeko@isenzeko.co.za

**DISCIPLINE**  
ELECTRICAL

**SERVICE**  
REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING

**DRAWING TITLE**  
TENDER  
ELECTRONIC SERVICES LAYOUT FF & SF

SCALE	DRAWN	CHECKED	DATE	DATE
1:1	D.G.	V.H.	JUL 2024	JUL 2024
<b>BUILDING</b>	<b>DRAWING No.</b>			
MADADENI HOSPITAL - NURSING ACCOMMODATION	MHSA-FF/SF-ELECT-REV000			



LEGEND	
	Smoke Detector
	Heat Detector
	Ceiling smoke detector with LED indicator
	Manual Fire Emergency call point
	Sounder And Indicator
	Fire retardant cable
	Fire Panel

NOTES

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DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT POSITIONING TO BE FINALISED ON SITE

ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER

No	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**

130 LANGAURALELE ST  
PIETERMARITZBURG  
3201  
TEL: 033 395 3111

Organization	Name	Signature	Date

CONSULTANT

**ISENZEKO ENGINEERING**

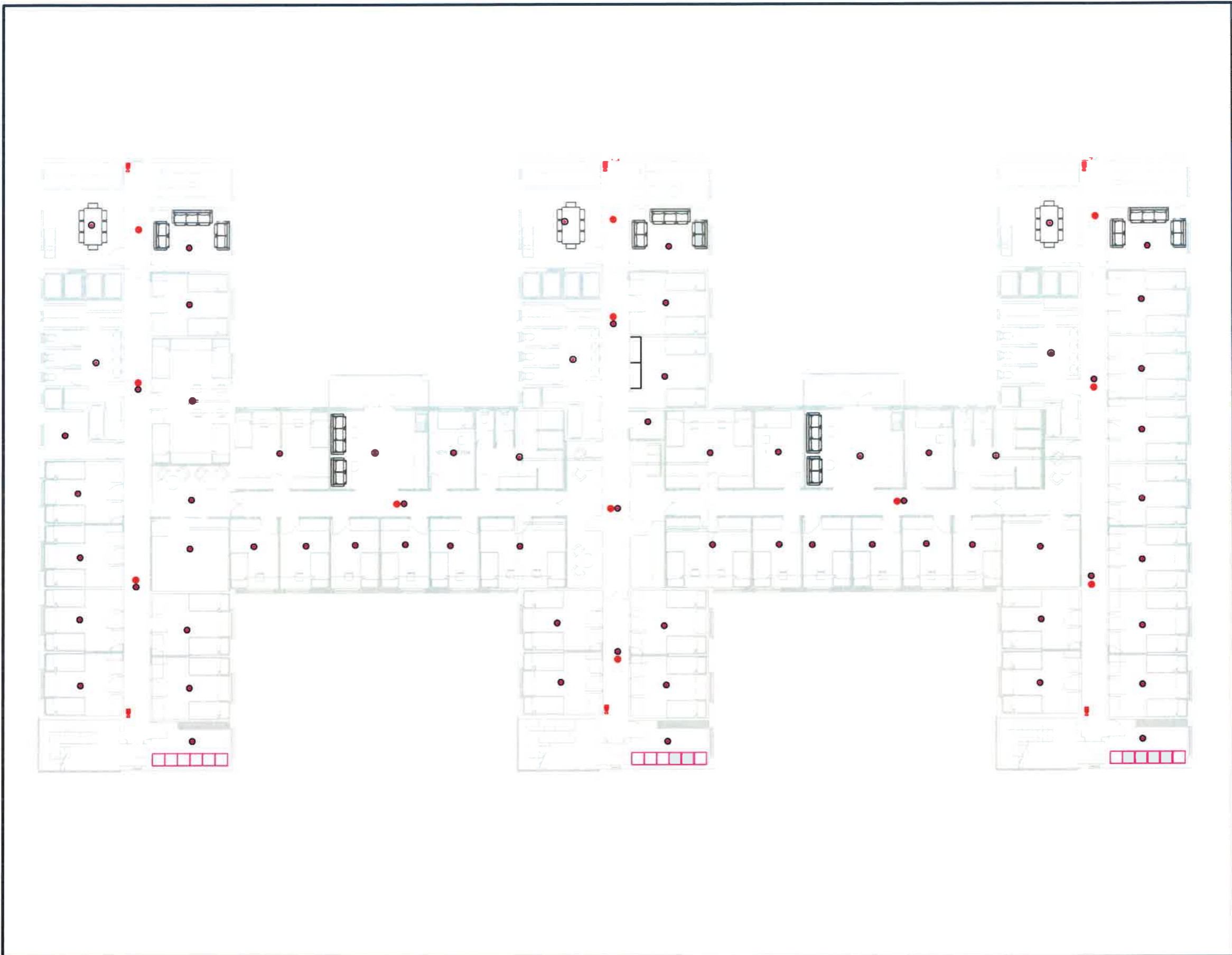
TEL/FAX: 031 562 0293  
E-MAIL: isenzeko@ieng.co.za

DISCIPLINE  
**ELECTRICAL**

SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER SMOKE DETECTION LAYOUT GF**

SCALE	DRAWN	DATE	REVISION
NTS	D.G	JUL 2021	V.H
BUILDING	DRAWING No:		
MADADENI HOSPITAL - STUDENT ACCOMMODATION	MHSB-GF-3D-REV000		



LEGEND			
	Smoke Detector		
	Heat Detector		
	Ceiling smoke detector with LED indicator		
	Manual Fire Emergency call point		
	Sounder And Indicator		
	Fire retardant cable		
	Fire Panel		

NOTES			
DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.			
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ALL EQUIPMENT EQUIPMENT SHALL BE APPROVED BY THE OWNER			

No.	REVISION	DATE	BY

CLIENT:

**KWAZULU-NATAL HEALTH**  
 330 LANGALBALELE ST  
 PIETERMARITZBURG  
 3201  
 TEL: 033 395 2111

Author	Drawn	Checked	Date

CONSULTANT:

**ISENZEKO ENGINEERING**  
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 E-MAIL: isenzeke@ieng.co.za

DISCIPLINE: **ELECTRICAL**

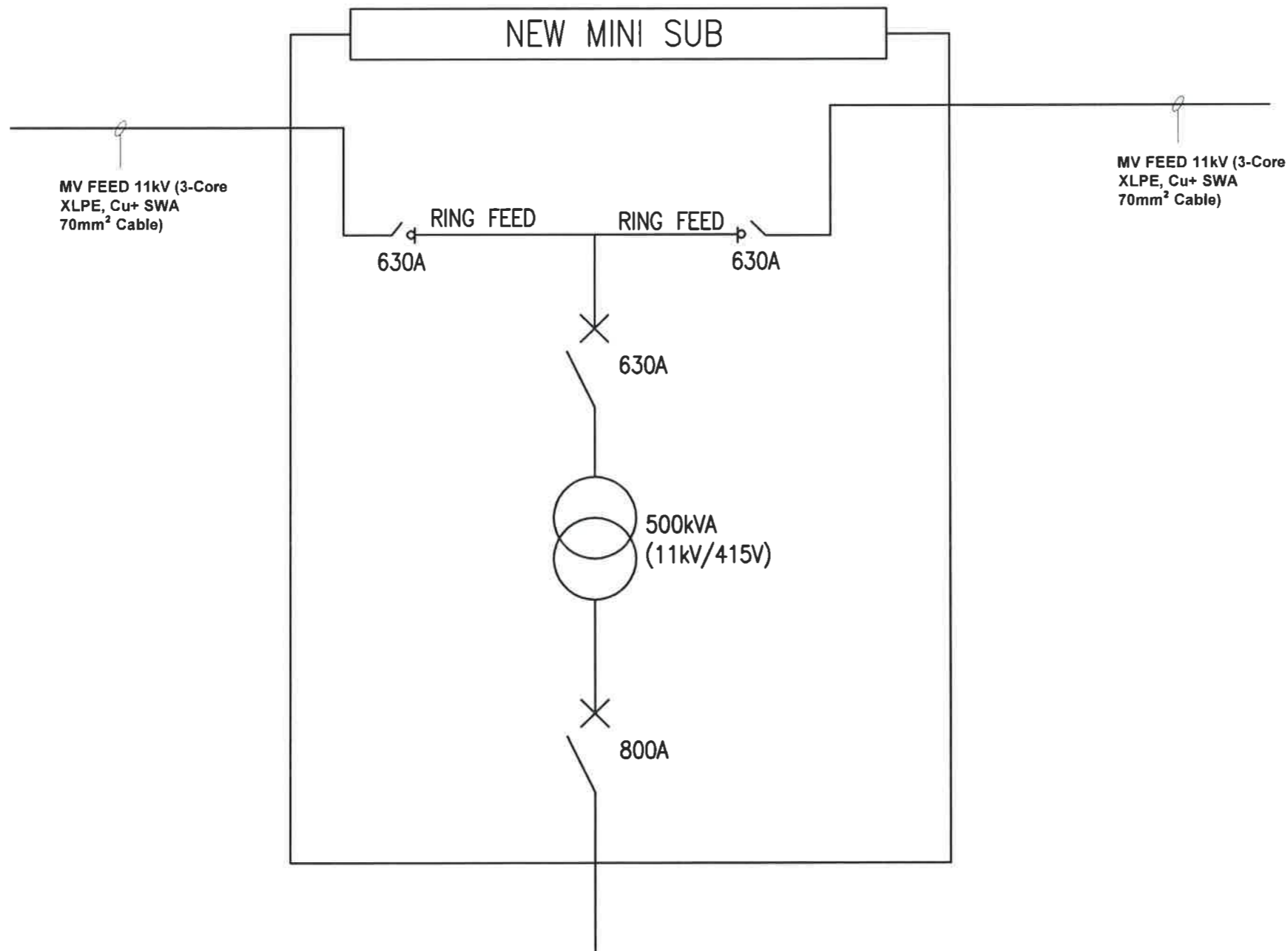
SERVICE: **REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE: **TENDER SMOKE DETECTION LAYOUT FF & SF**







DATE	BY	DATE	BY

BUILDING: <b>MADADENI HOSPITAL - NURSING ACCOMMODATION</b>	DRAWING No.: <b>MNSA-FF/SF-SD-REV008</b>
------------------------------------------------------------	------------------------------------------



### LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester
-  - Current Transformer
-  - AMR metering System

### NOTES

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 DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS  
 ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No.	REVISION	DATE	ZONE	BY

CLIENT  
**KWAZULU-NATAL HEALTH**  
  
 330 LANG-ABALELE ST  
 PIETERMARITZBURG  
 3201  
 TEL: (033) 395 2111

Organization	Name	Signature	Date

CONSULTANT  
**ISENZEKO ENGINEERING**  
  
 TELEFAX: 031 512 0291  
 E-MAIL: isenzeko@ieng.co.za

DISCIPLINE  
**ELECTRICAL**

SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**







DRAWING TITLE  
**TENDER  
 SINGLE LINE DIAGRAM LAYOUT  
 MINI SUB**

DATE	DRAWN	CHECKED	ISSUED
NTS	D.G	AUG 2021	V.H

BUILDING  
 MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR

DRAWING No.  
**MHSA-MS-SLD-REV000**

# LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester
-  - Current Transformer
-  - AMR metering System

## NOTES

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No.	REVISION	DATE	ZONE	BY


CLIENT



**KWAZULU-NATAL HEALTH**  
 330 LANGALBALELE ST.  
 PIETERMARITZBURG  
 3201  
 TEL: 033 593 2111

Organization	Name	Signature	Date

CONSULTANT



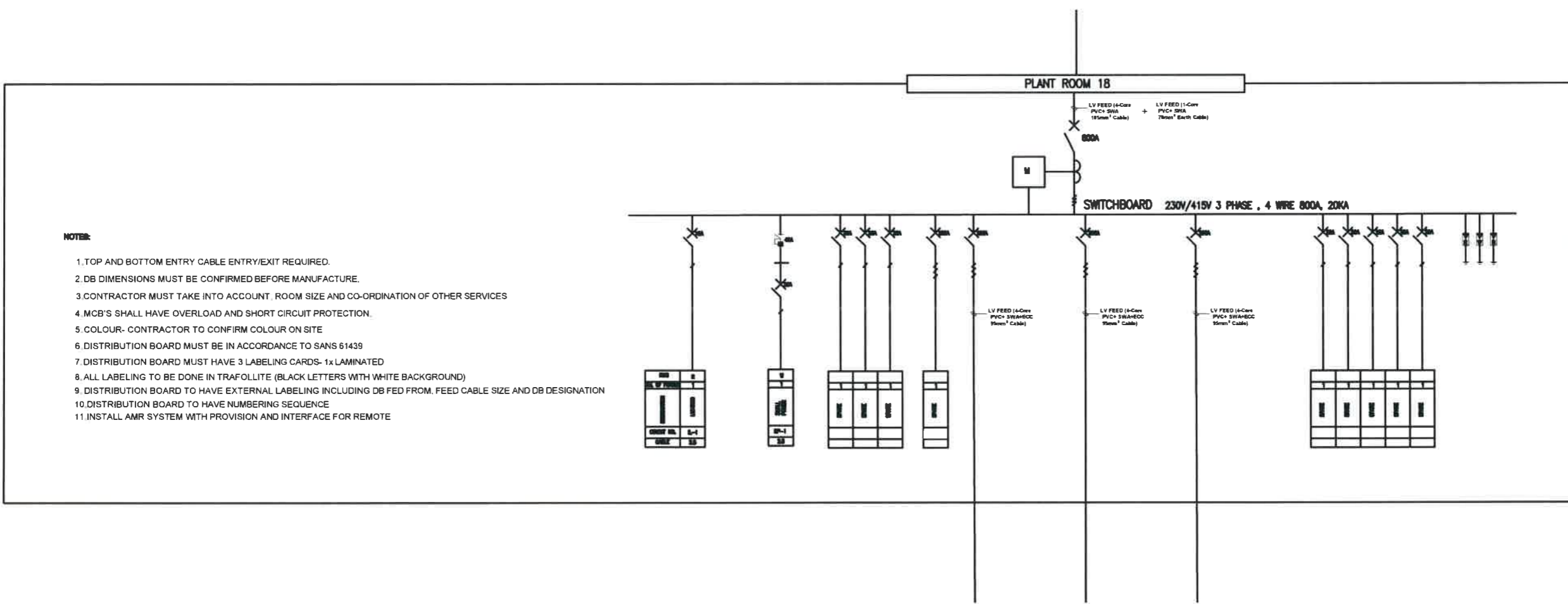
**ISENZEKO ENGINEERING**  
 TEL: 031 262 0291  
 E-MAIL: isenzeko@telkom.net

DISCIPLINE  
**ELECTRICAL**

SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

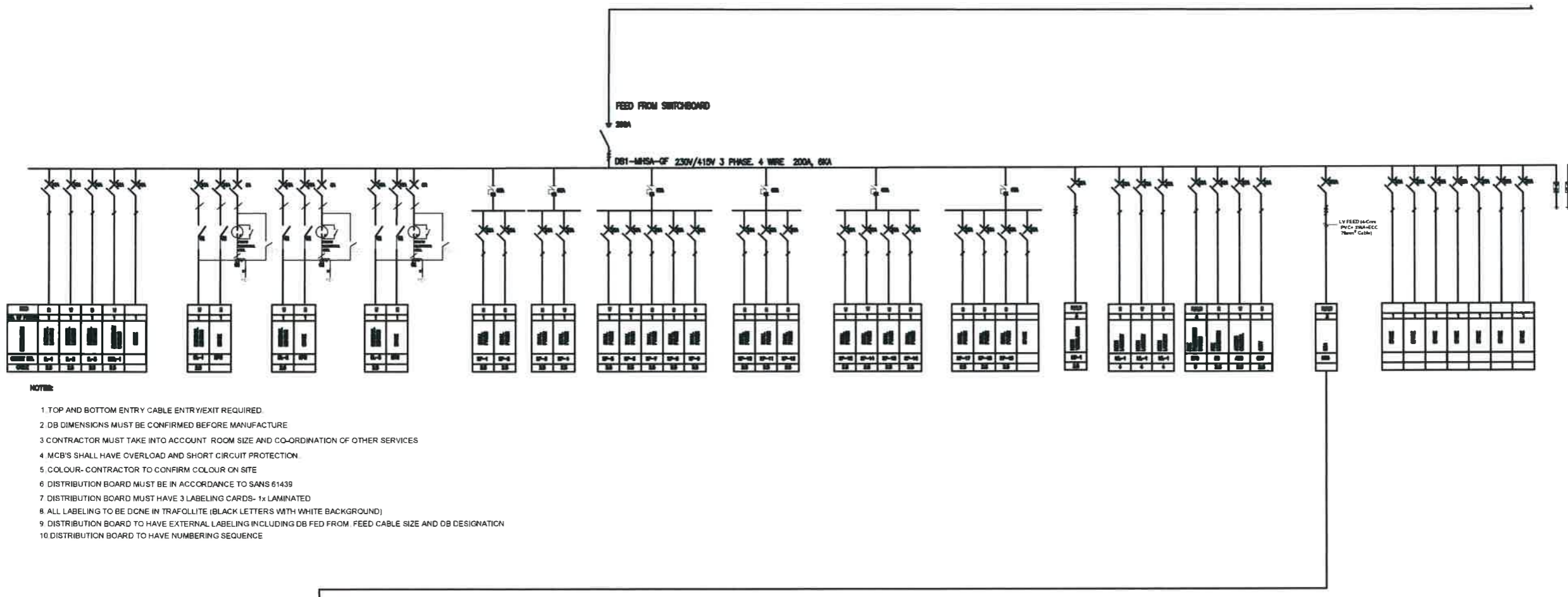
DRAWING TITLE  
**TENDER  
SINGLE LINE DIAGRAM LAYOUT  
SWITCHBOARD**

SCALE	DATE	DESIGN	CHECKED
NTS	AUG 2021	D.G	V.H
BUILDING MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR	DRAWING No. <b>MHSA-SB-SLD-REV000</b>		



### NOTES:

1. TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED.
2. DB DIMENSIONS MUST BE CONFIRMED BEFORE MANUFACTURE.
3. CONTRACTOR MUST TAKE INTO ACCOUNT, ROOM SIZE AND CO-ORDINATION OF OTHER SERVICES
4. MCB'S SHALL HAVE OVERLOAD AND SHORT CIRCUIT PROTECTION.
5. COLOUR- CONTRACTOR TO CONFIRM COLOUR ON SITE
6. DISTRIBUTION BOARD MUST BE IN ACCORDANCE TO SANS 61439
7. DISTRIBUTION BOARD MUST HAVE 3 LABELING CARDS- 1x LAMINATED
8. ALL LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)
9. DISTRIBUTION BOARD TO HAVE EXTERNAL LABELING INCLUDING DB FED FROM, FEED CABLE SIZE AND DB DESIGNATION
10. DISTRIBUTION BOARD TO HAVE NUMBERING SEQUENCE
11. INSTALL AMR SYSTEM WITH PROVISION AND INTERFACE FOR REMOTE



- NOTES:**
1. TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED.
  2. DB DIMENSIONS MUST BE CONFIRMED BEFORE MANUFACTURE.
  3. CONTRACTOR MUST TAKE INTO ACCOUNT ROOM SIZE AND CO-ORDINATION OF OTHER SERVICES.
  4. MCB'S SHALL HAVE OVERLOAD AND SHORT CIRCUIT PROTECTION.
  5. COLOUR- CONTRACTOR TO CONFIRM COLOUR ON SITE.
  6. DISTRIBUTION BOARD MUST BE IN ACCORDANCE TO SANS 61439.
  7. DISTRIBUTION BOARD MUST HAVE 3 LABELING CARDS- 1x LAMINATED.
  8. ALL LABELING TO BE DONE IN TRAFOLITE (BLACK LETTERS WITH WHITE BACKGROUND).
  9. DISTRIBUTION BOARD TO HAVE EXTERNAL LABELING INCLUDING DB FED FROM, FEED CABLE SIZE AND DB DESIGNATION.
  10. DISTRIBUTION BOARD TO HAVE NUMBERING SEQUENCE.

**LEGEND**

- Circuit Breaker
- Earth Leakage Unit
- On Load Isolator
- Surge Arrester

**NOTES**

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS, ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.  
 DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS  
 ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No.	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**

330 LAJIGALBALE ST  
 PIETERMARITZBURG  
 3201  
 TEL: 033 395 2111

Organization	Name	Signature	Date

**CONSULTANT: ISENZEKO ENGINEERING**

TELEFAX: 031 9420281  
 E-MAIL: isenzeko@ieng.co.za

**DISCIPLINE**  
**ELECTRICAL**





**SERVICE**  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

**DRAWING TITLE**  
**TENDER**  
**SINGLE LINE DIAGRAM LAYOUT**  
**DB1-MHSA-GF**

SCALE	DRAWN	DATE	CHECKED
NTS	D.G	SEP 2020	V.H

BUILDING	DRAWING No.
MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR	MHSA-GF-SLD-DB1-REV000

# LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester

## NOTES

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**  
 339 LANGENBALLE ST  
 Pietermaritzburg  
 3201  
 TEL: 033 395 2111

Signature	Name	Signature	Date

### CONSULTANT

**ISENZEKO ENGINEERING**  
 TELEFAX : 031 262 2591  
 E-MAIL: isenzeko@telcel.co.za

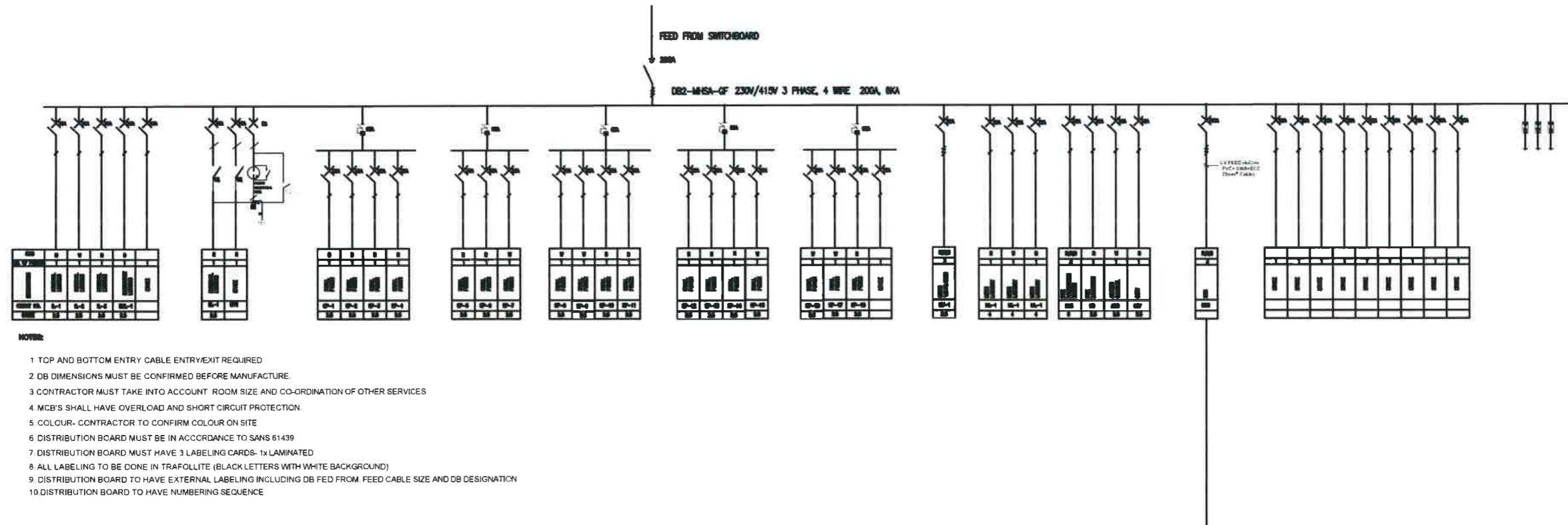
DISCIPLINE  
**ELECTRICAL**

SERVICE

**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER  
 SINGLE LINE DIAGRAM LAYOUT  
 DB2-MHSA-GF**

SCALE	DRAWN	DATE	CHECKED
NTS	D.G	SEP 2020	V.H
BUILDING	DRAWING No.:		
MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR	MHSA-GF-SLD-DB2-REV000		



- NOTES:**
- 1 TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED
  - 2 DB DIMENSIONS MUST BE CONFIRMED BEFORE MANUFACTURE.
  - 3 CONTRACTOR MUST TAKE INTO ACCOUNT ROOM SIZE AND CO-ORDINATION OF OTHER SERVICES
  - 4 MCB'S SHALL HAVE OVERLOAD AND SHORT CIRCUIT PROTECTION.
  - 5 COLOUR- CONTRACTOR TO CONFIRM COLOUR ON SITE
  - 6 DISTRIBUTION BOARD MUST BE IN ACCORDANCE TO SANS 61439
  - 7 DISTRIBUTION BOARD MUST HAVE 3 LABELING CARDS- 1x LAMINATED
  - 8 ALL LABELING TO BE DONE IN TRAFOLLITE (BLACK LETTERS WITH WHITE BACKGROUND)
  - 9 DISTRIBUTION BOARD TO HAVE EXTERNAL LABELING INCLUDING DB FED FROM, FEED CABLE SIZE AND DB DESIGNATION
  - 10 DISTRIBUTION BOARD TO HAVE NUMBERING SEQUENCE













# LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester

## NOTES

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No.	REVISION	DATE	ZONE	BY

CLIENT  
**KWAZULU-NATAL HEALTH**  
330 LANGALIBALELE ST  
PIETERMARITZBURG  
3201  
TEL: 033 395 2111

Organization	Name	Designation	Date

CONSULTANT  
**ISENZKO ENGINEERING**  
TEL: 031 562 0291  
E-MAIL: isenzko@ieng.co.za

DISCIPLINE  
**ELECTRICAL**

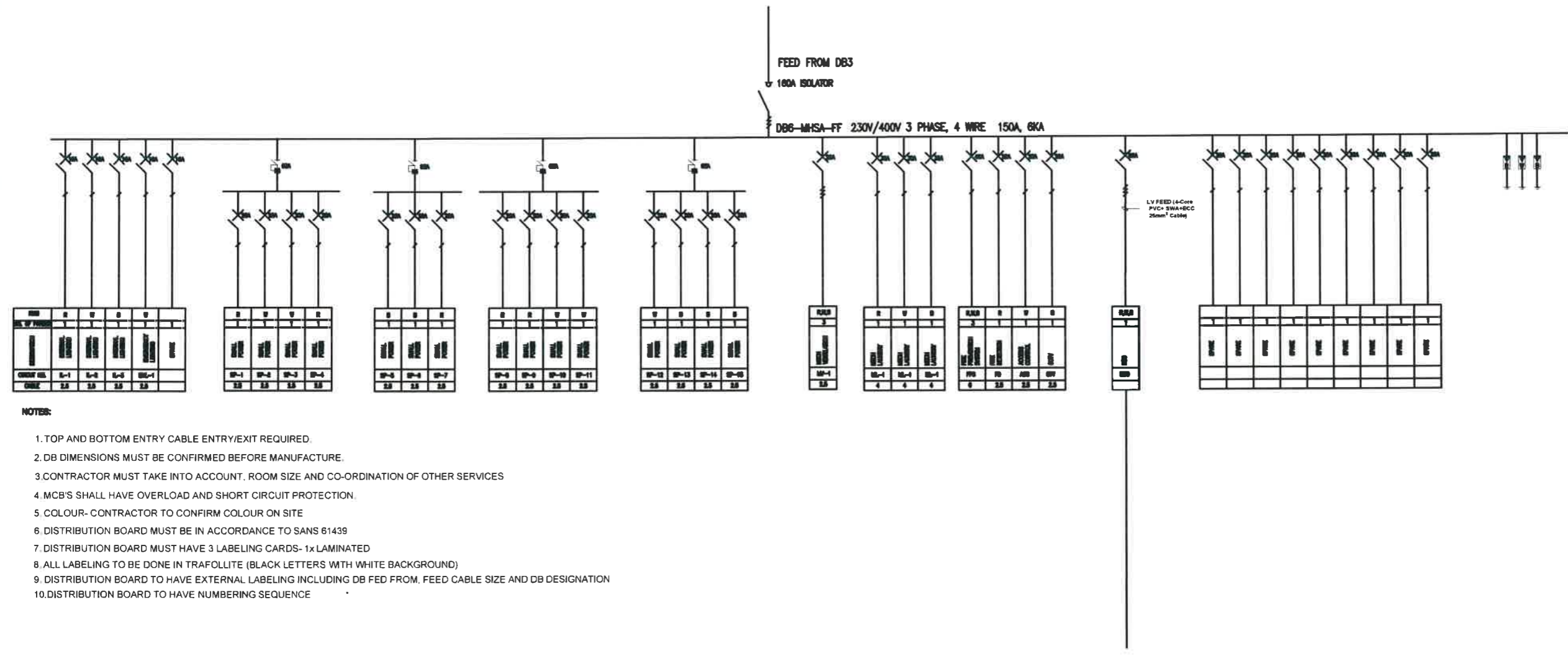
SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER SINGLE LINE DIAGRAM LAYOUT DB6-MHSA-FF**

SCALE	DRAWN	CHECKED	DATE	THEORY
NTS	D.G	V.H	SEP 2020	V.H

BUILDING: MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR  
DRAWING No: **MHSA-FF-SLD-DB6-REV000**





FEED FROM DB3  
100A ISOLATOR  
DB6-MHSA-FF 230N/400V 3 PHASE, 4 WIRE 150A, 6KA



- NOTES:
1. TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED.
  2. DB DIMENSIONS MUST BE CONFIRMED BEFORE MANUFACTURE.
  3. CONTRACTOR MUST TAKE INTO ACCOUNT, ROOM SIZE AND CO-ORDINATION OF OTHER SERVICES
  4. MCB'S SHALL HAVE OVERLOAD AND SHORT CIRCUIT PROTECTION.
  5. COLOUR- CONTRACTOR TO CONFIRM COLOUR ON SITE
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  10. DISTRIBUTION BOARD TO HAVE NUMBERING SEQUENCE



# LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester

## NOTES

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.

DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS

ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**



333 LANGAUBALELE ST  
PIETERMARITZBURG  
3201

TEL: 033 393 2111

APPROVAL	DATE	SIGNATURE	ROLE

CONSULTANT

**ISENZEKO ENGINEERING**



TELEFAX: 033 362 2291  
EMAIL: isenzeko@iekenzeco.com

DISCIPLINE  
**ELECTRICAL**

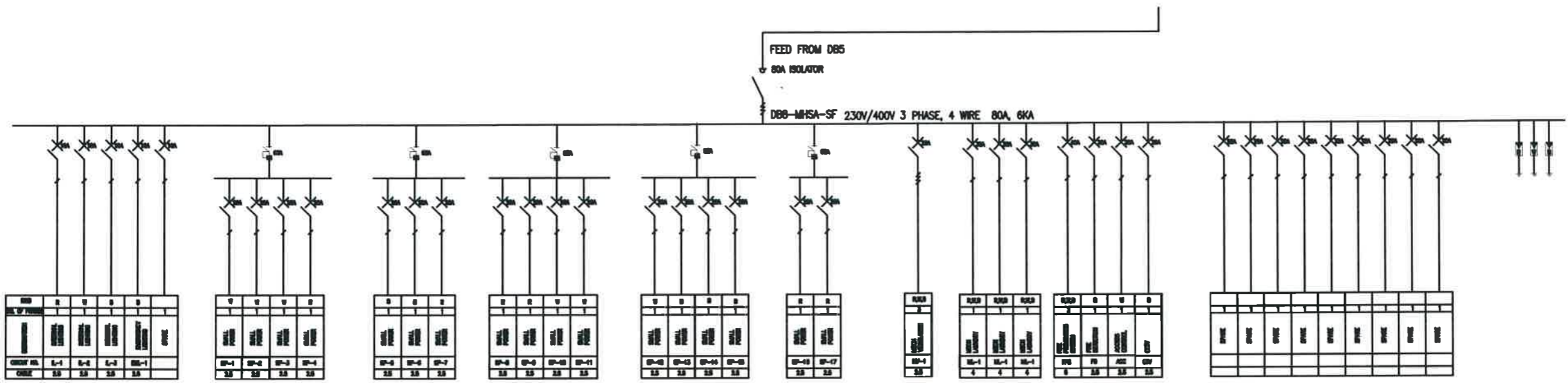
SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER  
SINGLE LINE DIAGRAM LAYOUT  
DB8-MHSA-SF**

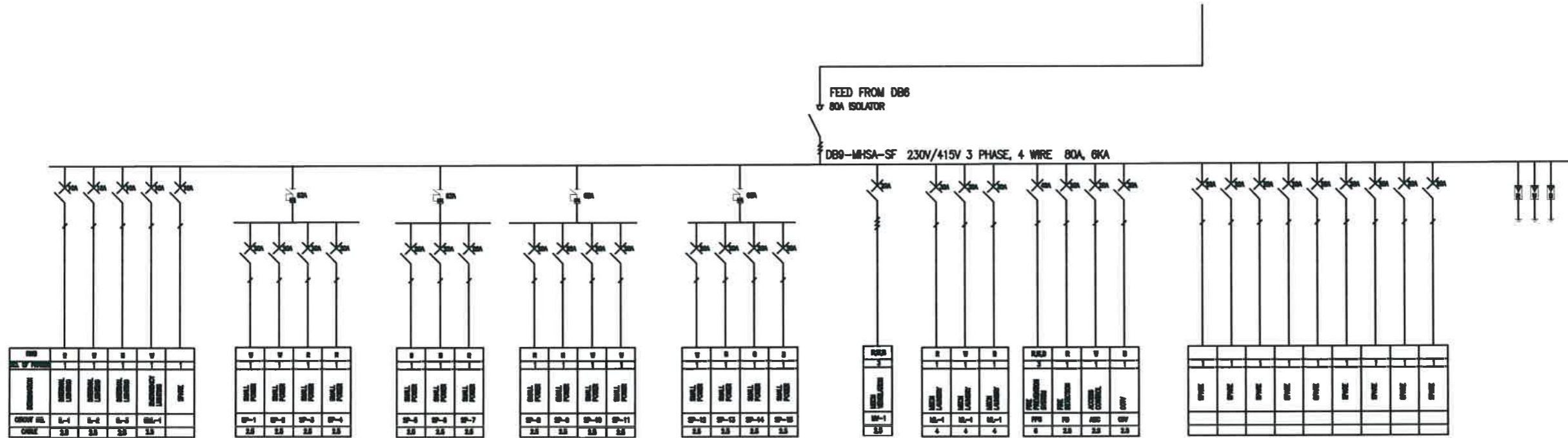
SCALE	DRAWN	DATE	CHECKED
N.T.S.	D.G.	SEP 2020	V.H.

BUILDING  
MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR

DRAWING No.  
**MHSA-SF-SLD-DB8-REV000**



- NOTES:**
1. TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED.
  2. DB DIMENSIONS MUST BE CONFIRMED BEFORE MANUFACTURE.
  3. CONTRACTOR MUST TAKE INTO ACCOUNT, ROOM SIZE AND CO-ORDINATION OF OTHER SERVICES
  4. MCB'S SHALL HAVE OVERLOAD AND SHORT CIRCUIT PROTECTION.
  5. COLOUR- CONTRACTOR TO CONFIRM COLOUR ON SITE
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  10. DISTRIBUTION BOARD TO HAVE NUMBERING SEQUENCE



- NOTES:**
1. TOP AND BOTTOM ENTRY CABLE ENTRY/EXIT REQUIRED.
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ROOM	CB	ELU	ELU	ELU	ELU	ELU
CHIEF OFF	CB-1	ELU-1	ELU-2	ELU-3	ELU-4	ELU-5
CHIEF OFF	2.0	2.0	2.0	2.0	2.0	2.0

ROOM	CB	ELU	ELU	ELU	ELU
SP-1	CB-2	ELU-1	ELU-2	ELU-3	ELU-4
SP-1	2.0	2.0	2.0	2.0	2.0

ROOM	CB	ELU	ELU	ELU
SP-2	CB-3	ELU-1	ELU-2	ELU-3
SP-2	2.0	2.0	2.0	2.0

ROOM	CB	ELU	ELU	ELU	ELU
SP-3	CB-4	ELU-1	ELU-2	ELU-3	ELU-4
SP-3	2.0	2.0	2.0	2.0	2.0

ROOM	CB	ELU	ELU	ELU	ELU
SP-4	CB-5	ELU-1	ELU-2	ELU-3	ELU-4
SP-4	2.0	2.0	2.0	2.0	2.0

ROOM	CB
SP-5	CB-6
SP-5	2.0

ROOM	CB	ELU	ELU
SP-6	CB-7	ELU-1	ELU-2
SP-6	4	4	4

ROOM	CB	ELU	ELU	ELU	ELU
SP-7	CB-8	ELU-1	ELU-2	ELU-3	ELU-4
SP-7	0	2.0	2.0	2.0	2.0

ROOM	CB	ELU	ELU	ELU	ELU	ELU	ELU	ELU	ELU
SP-8	CB-9	ELU-1	ELU-2	ELU-3	ELU-4	ELU-5	ELU-6	ELU-7	ELU-8
SP-8									

**LEGEND**

- Circuit Breaker
- Earth Leakage Unit
- On Load Isolator
- Surge Arrester

**NOTES**

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.  
 DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS  
 ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**




359 LANKA/BALELE ST  
 PIETERMARITZBURG  
 3201  
 TEL: 053 995 2111

Organization	Name	Signature	Date

CONSULTANT

**ISENZEKO ENGINEERING**



TELEFAX: 031 942 0291  
 EMAIL: isenzeko@ieng.co.za

DISCIPLINE  
**ELECTRICAL**

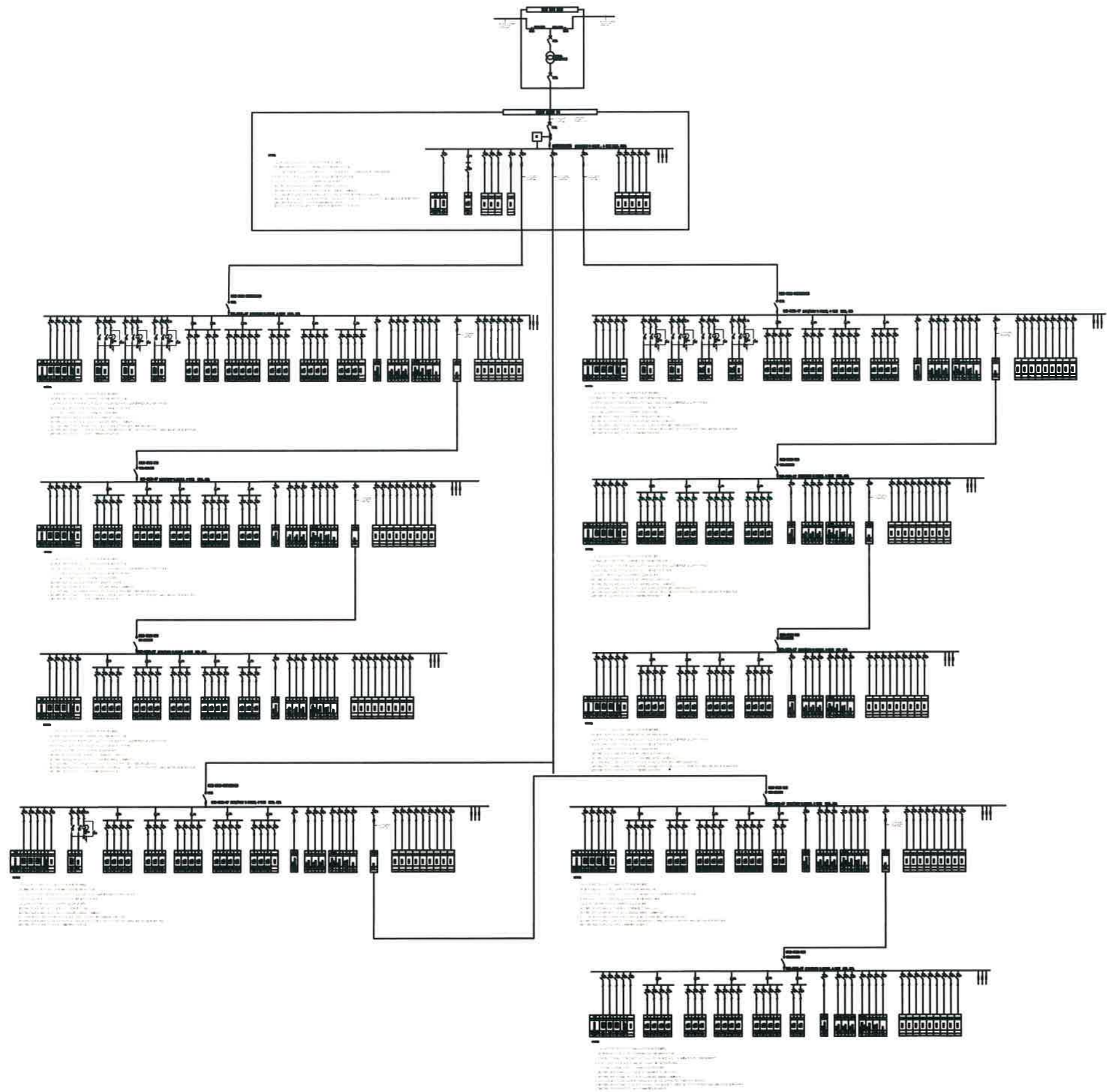
SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER  
 SINGLE LINE DIAGRAM LAYOUT  
 DB9-MHSA-SF**







SCALE	DATE	DESIGNED	CHECKED
NTS	D.G	SEP 2020	V.H

BUILDING  
 MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR

DRAWING No  
**MHSA-SF-SLD-DB9-REV000**



### LEGEND

-  - Circuit Breaker
-  - Earth Leakage Unit
-  - On Load Isolator
-  - Surge Arrester
-  - Current Transformer
-  - AMR metering System

### NOTES

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL, MECHANICAL, CIVIL, STRUCTURAL, ETC.  
 DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS  
 ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE

No.	REVISION	DATE	ZONE	BY

CLIENT

**KWAZULU-NATAL HEALTH**



330 LANGAUBALELE ST.  
 PIETERMARITZBURG  
 3201  
 TEL: 033 355 2111

Organization	Name	Signature	Date

CONSULTANT

**ISENZEKO ENGINEERING**



TEL: 033 352 0091  
 E-MAIL: isenzeko@iengr.co.za




DISCIPLINE  
**ELECTRICAL**

SERVICE  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

DRAWING TITLE  
**TENDER SINGLE LINE DIAGRAM LAYOUT KEYLINE**

SCALE	DRAWN	DATE	PROJECT
NTS	D.G.	AUG 2021	V.H.
BUILDING MADADENI HOSPITAL - STUDENT ACCOMMODATION GROUND FLOOR			DRAWING No. MNSA-KLD-REV000



LEGEND	
	DISTRIBUTION BOARD
	300MM CABLE TRAY
	200MM WIRE MESH

**NOTES**

DRAWING MUST BE REFERENCED AGAINST ALL OTHER RELATED DRAWINGS ARCHITECTURAL MECHANICAL CIVIL STRUCTURAL ETC  
 DRAWING MUST BE REFERENCED AGAINST ALL SPECIFICATIONS  
 ALL EQUIPMENT POSITIONING TO BE FINALIZED ON SITE  
 ALL EQUIVALENT EQUIPMENT SHALL BE APPROVED BY THE ENGINEER

No	REVISION	DATE	ZONE	BY

**CLIENT**

**KWAZULU-NATAL HEALTH**  
 330 LANGALIBALELE ST  
 PIETERMARITZBURG  
 3201  
 TEL: 033 395 2111

Signature	Name	Signature	Date

**CONSULTANT**

**ISENZEKO ENGINEERING**  
 TELEFAX : 031 562 0291  
 E-MAIL : isenzeko@ TelkomSA.net

**DISCIPLINE**  
**ELECTRICAL**

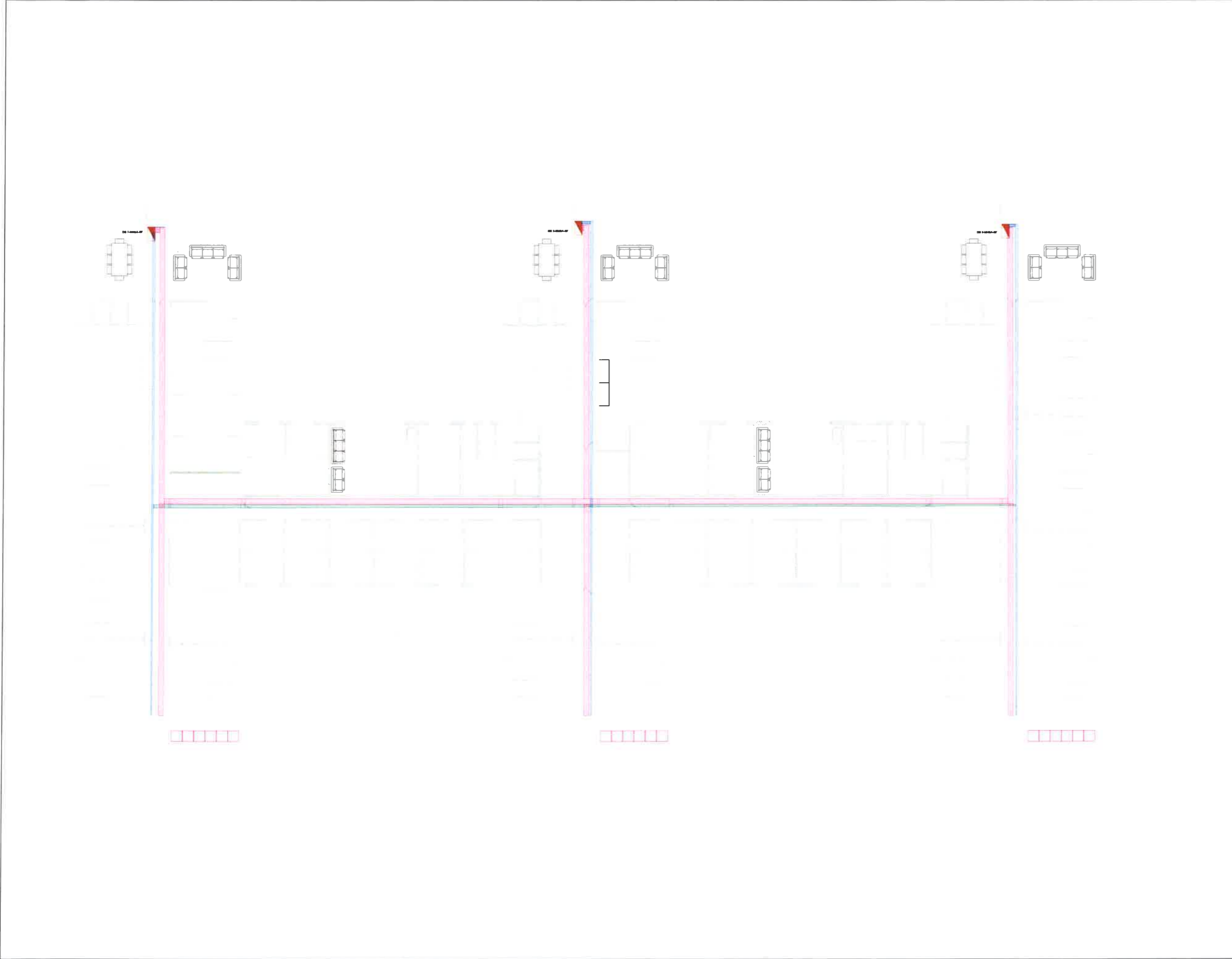
**SERVICE**  
**REFURBISHMENT AND ADDITIONS TO THE EXISTING BUILDING**

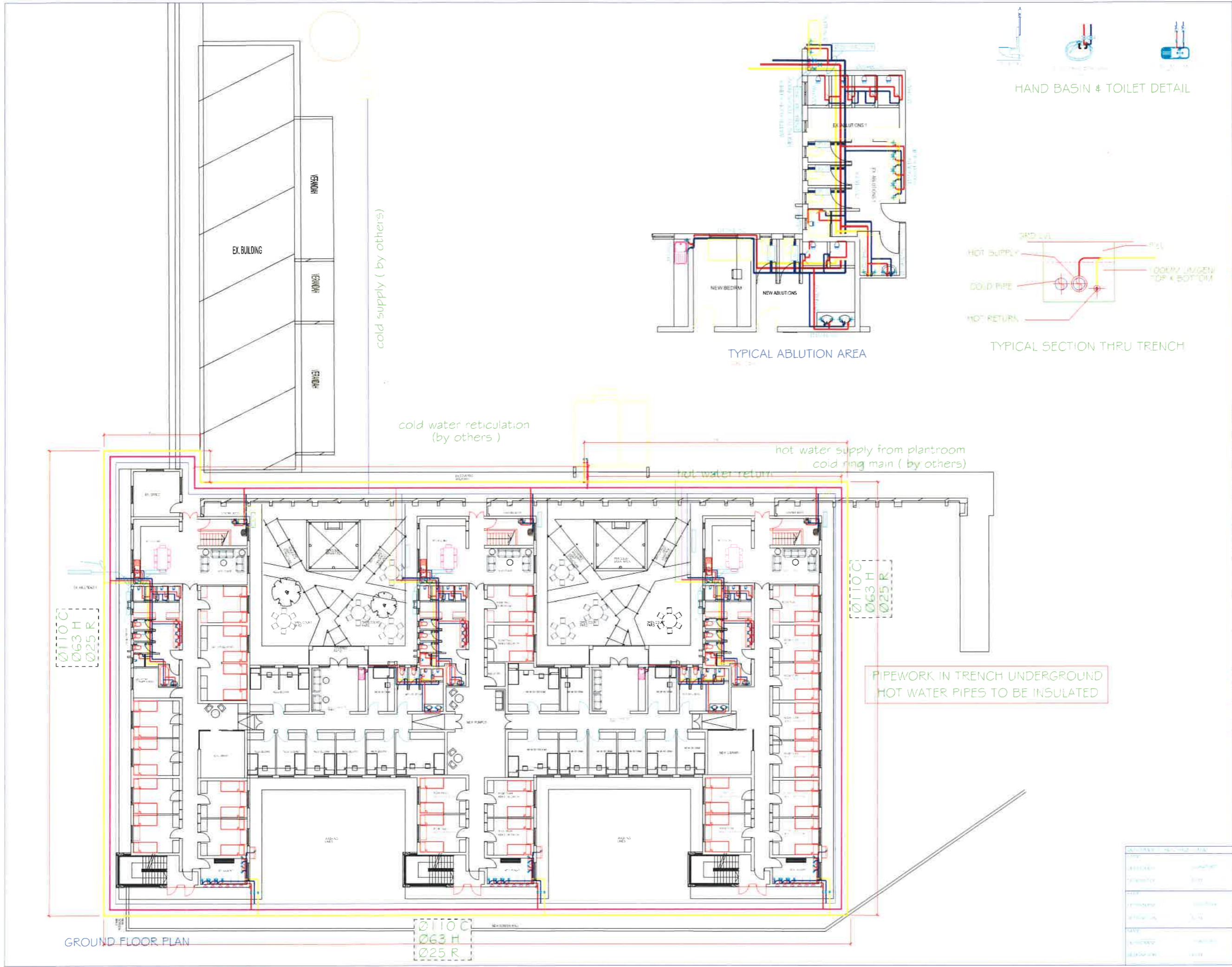
**DRAWING TITLE**  
**TENDER DB, CABLE TRAY & CABLE ROUTE LAYOUT SF**

SCALE	DRAWN	DATE	CHECKED
NTS	D G	JUN 2021	V H

**BUILDING**  
 MADADENI HOSPITAL - NURSING ACCOMMODATION

**DRAWING No**  
 MHSA-SF-DB-CT-CR-REV000





**GENERAL NOTES**

**HOT & COLD WATER NOTES**

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ BUILDING CODE.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ PLUMBING CODE.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ ELECTRICAL CODE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ FIRE CODE.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ ENVIRONMENTAL CODE.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ HEALTH CODE.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ SAFETY CODE.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ QUALITY CODE.
9. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ SUSTAINABILITY CODE.
10. ALL WORK SHALL BE IN ACCORDANCE WITH THE NZ WELLBEING CODE.

**LEGEND**

Symbol	Description
Blue line	COLD WATER SUPPLY
Red line	HOT WATER SUPPLY
Yellow line	HOT RETURN
Green line	COLD WATER RETICULATION (BY OTHERS)
Orange line	HOT WATER SUPPLY FROM PLANTROOM
Purple line	COLD RING MAIN (BY OTHERS)

**BLACK BALANCE PROJECTS (Pty) Limited**  
 INNOVATIVE SUSTAINABLE SOLUTIONS  
 2nd Floor, 21 Riverfront Close,  
 Rosebank Valley, 4010  
 Website: www.blackbalance.co.nz  
 Tel: +27 83 811 1450  
 Fax: +27 83 262 8805  
 P O Box 1143, Hyper-By-The-Sea Durban, 4051

**DEPARTMENT OF HEALTH - KZN**

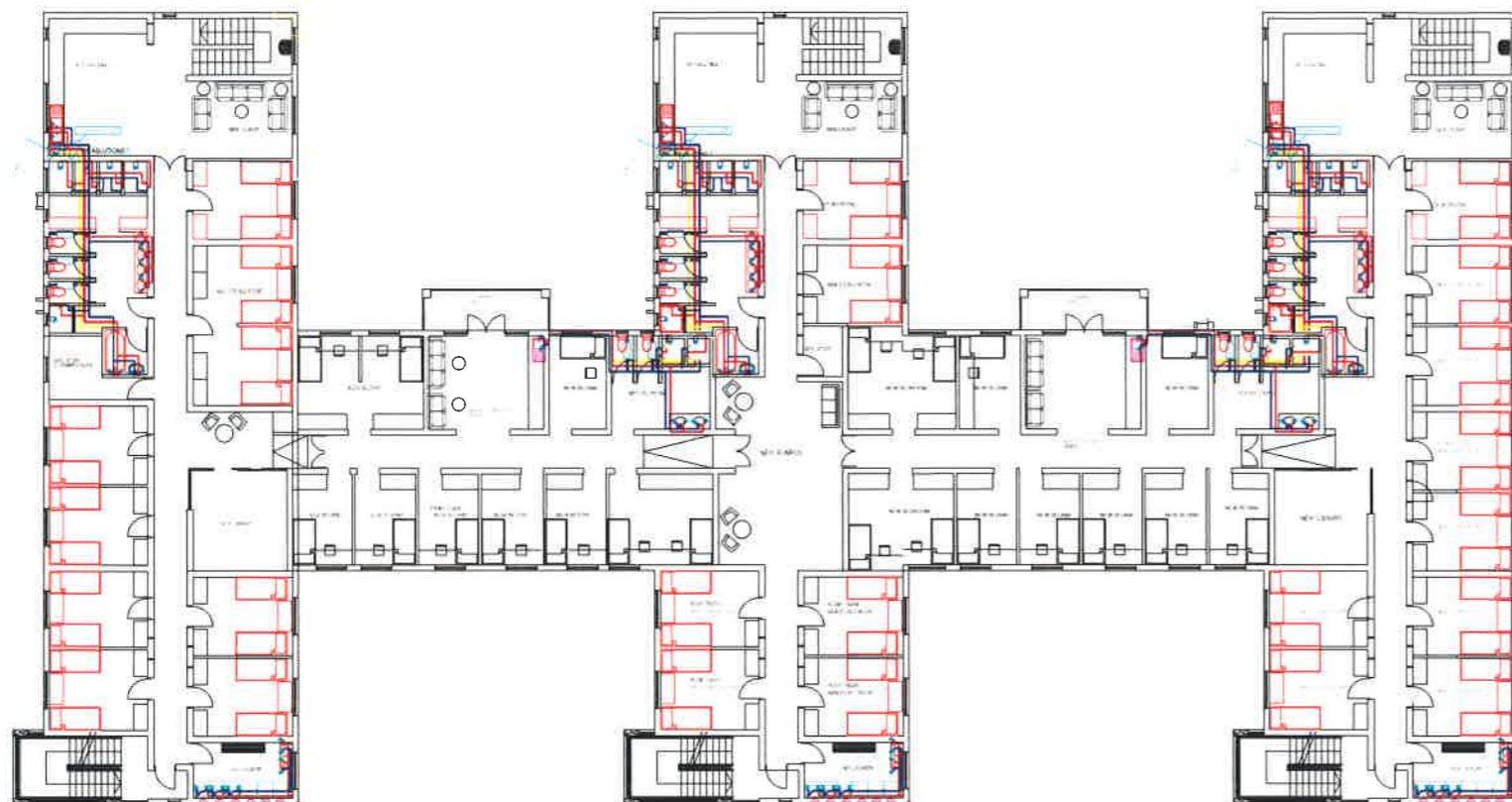
**health**  
 Department of Health  
 PROVINCE OF KWAZULU-NATAL

**REVISIONS**

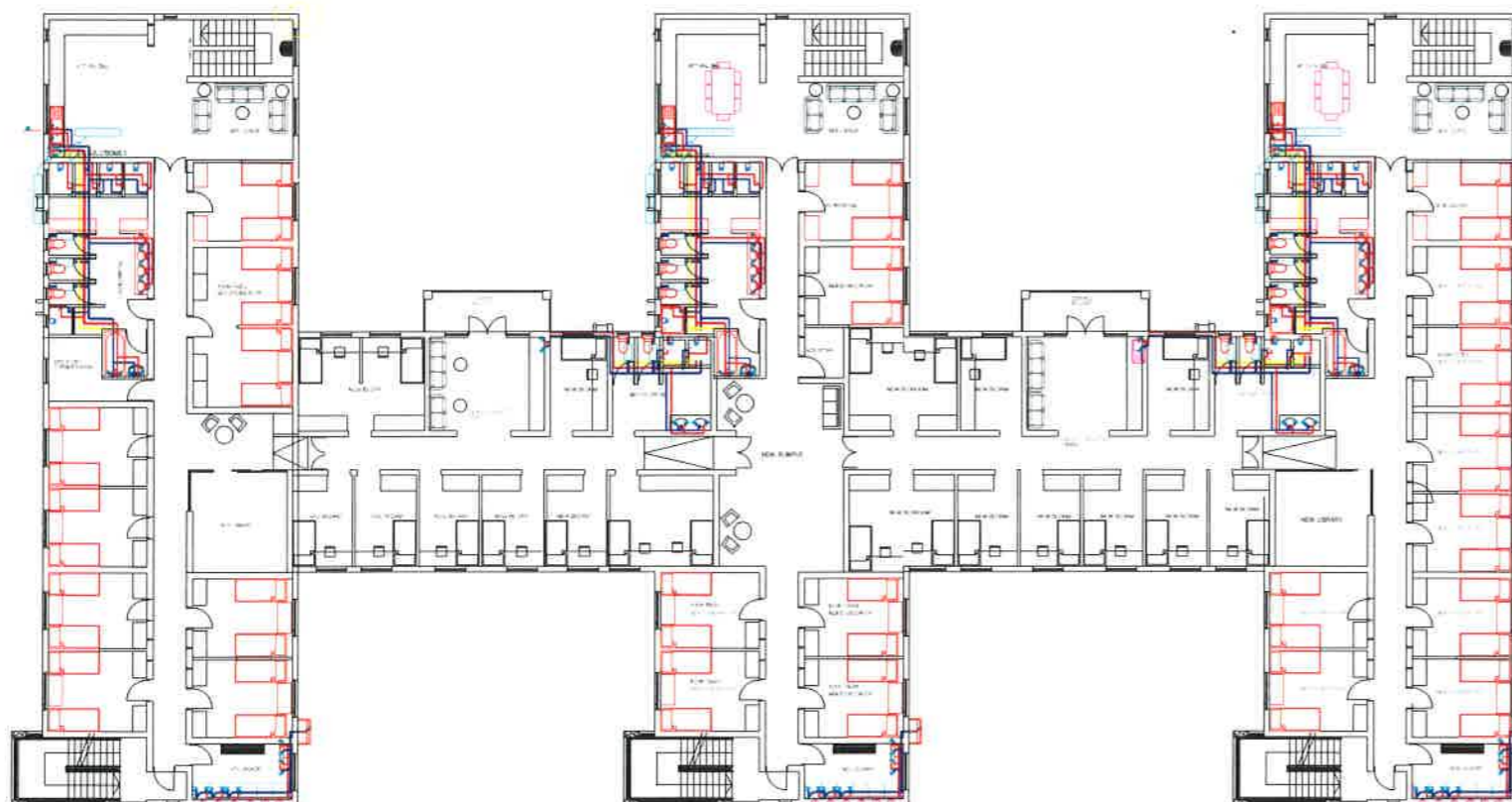
NO.	DESCRIPTION	DATE
1	ISSUED FOR TENDER	2024-08-01
2	REVISED PER CLIENT COMMENTS	2024-08-15
3	REVISED PER CLIENT COMMENTS	2024-08-20
4	REVISED PER CLIENT COMMENTS	2024-08-25
5	REVISED PER CLIENT COMMENTS	2024-09-01
6	REVISED PER CLIENT COMMENTS	2024-09-05
7	REVISED PER CLIENT COMMENTS	2024-09-10
8	REVISED PER CLIENT COMMENTS	2024-09-15
9	REVISED PER CLIENT COMMENTS	2024-09-20
10	REVISED PER CLIENT COMMENTS	2024-09-25

**PROJECT INFORMATION**

PROJECT NO.	2024-08-01
CLIENT	DEPARTMENT OF HEALTH - KZN
PROJECT NAME	REVISIONS TO EXISTING STAFF ACCOMMODATION IN WADSWORTH HOSPITAL
PROJECT LOCATION	WADSWORTH HOSPITAL, DURBAN
PROJECT PHASE	DESIGN
PROJECT STATUS	ISSUED FOR TENDER
PROJECT CONTACT	PROJECT MANAGER
PROJECT PHONE	083 811 1450
PROJECT EMAIL	info@blackbalance.co.nz



SECOND FLOOR PLAN



FIRST FLOOR PLAN



HAND BASIN & TOILET DETAIL

**GENERAL NOTES**

**HOT & COLD WATER NOTES:**

- 1. All water supply lines shall be installed in accordance with the relevant standards and specifications.
- 2. All water supply lines shall be installed in a protected manner.
- 3. All water supply lines shall be installed in a manner that allows for future maintenance and repair.
- 4. All water supply lines shall be installed in a manner that allows for future expansion.
- 5. All water supply lines shall be installed in a manner that allows for future modification.
- 6. All water supply lines shall be installed in a manner that allows for future replacement.
- 7. All water supply lines shall be installed in a manner that allows for future testing and commissioning.
- 8. All water supply lines shall be installed in a manner that allows for future inspection.
- 9. All water supply lines shall be installed in a manner that allows for future cleaning and disinfection.
- 10. All water supply lines shall be installed in a manner that allows for future monitoring and control.

**LEGEND**

—	Cold Water Supply
—	Hot Water Supply
—	Hot Water Return
—	Water Main
—	Sanitary Main
—	Storm Water Main
—	Gas Main
—	Electrical Main
—	Telecommunications Main
—	Other Services Main

**DEPARTMENT OF HEALTH - KZN**

**BLACK BALANCE PROJECTS (Pty) Limited**  
**INNOVATIVE SUSTAINABLE SOLUTIONS**  
 1st Floor, 21 Riverhorse Close,  
 Riverhorse Valley, 4010  
 Website: www.blackbalance.co.za  
 Tel: +27 31 832 3850  
 Fax: +27 31 202 6800  
 P.O. Box 1141, Ngqweni, The Sea, Durban 4053

**THE DEPARTMENT OF HEALTH - KZN**

**health**  
 Department  
 Health  
 PROVINCE OF KWAZULU-NATAL

PROPOSED ALTERATIONS AND  
 REFINISHMENTS TO EXISTING  
 PATIENT ACCOMMODATION IN  
 MALADAN HOSPITAL.

**FIRST & SECOND FLOOR PLAN  
 HOT & COLD WATER LAYOUT**

DATE	2024-08-20	BY	MM
SCALE	AS SHOWN	PROJECT NO.	11111
CLIENT	DEPARTMENT OF HEALTH - KZN	DESIGNER	BLACK BALANCE PROJECTS (Pty) Limited
PROJECT	PROPOSED ALTERATIONS AND REFINISHMENTS TO EXISTING PATIENT ACCOMMODATION IN MALADAN HOSPITAL	DATE OF ISSUE	2024-08-20
ISSUED FOR	FOR CONSTRUCTION	ISSUED BY	MM
REVISIONS		APPROVED BY	MM





