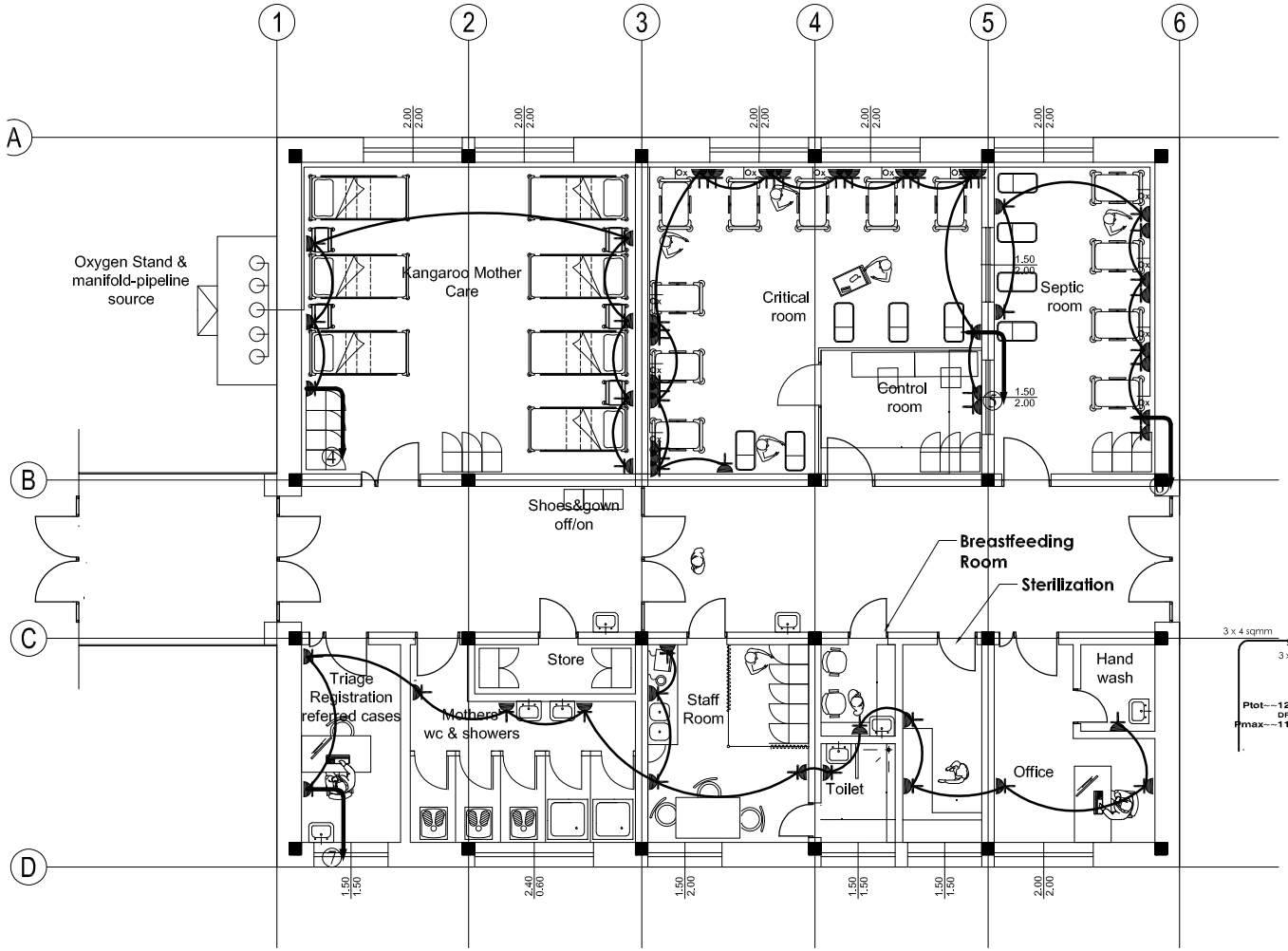
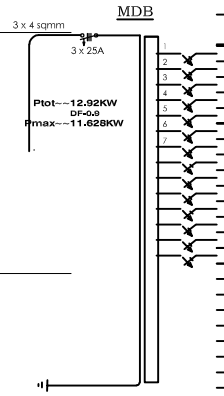
VOLUME 3

TECHNICAL SPECIFICATIONS

REF NO 01/CUAMM/ETH/2025/ AID 012958





NO	DESCRIPTION	I (A)	A (sqmm.)	P(KW)	Phase alloc R	S	T
1	LIGHTING	10	3 x 2.5	0.36	o		
2	LIGHTING	10	3 x 2.5	0.12		o	
3	LIGHTING	10	3 x 2.5	0.24			o
4	SOCKET OUTLET	16	3 x 2.5	1.40	o		
5	SOCKET OUTLET	16	3 x 2.5	5.60		o	
6	SOCKET OUTLET	16	3 x 2.5	2.00			o
7	SOCKET OUTLET	16	3 x 2.5	3.20	o		
	RESERVE						
	RESERVE						
			TOTAL	12.92	o	o	o

NICU SOCKET LAYOUT

$P_{tot} \approx 12.92KW$ df = 0.90 $P_{max} \approx 11.628KW$ $S_{max} \approx 13.68KVA$ pf = 0.85

GENERAL NOTES

No.	REVISION / ISSUE	DATE

ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL NICU REHABILITATION

Project Address
Location:
Sub city: Kebele / Wereda:
Parcel No: - House No.: -
Title Deed no.:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Socket Layout

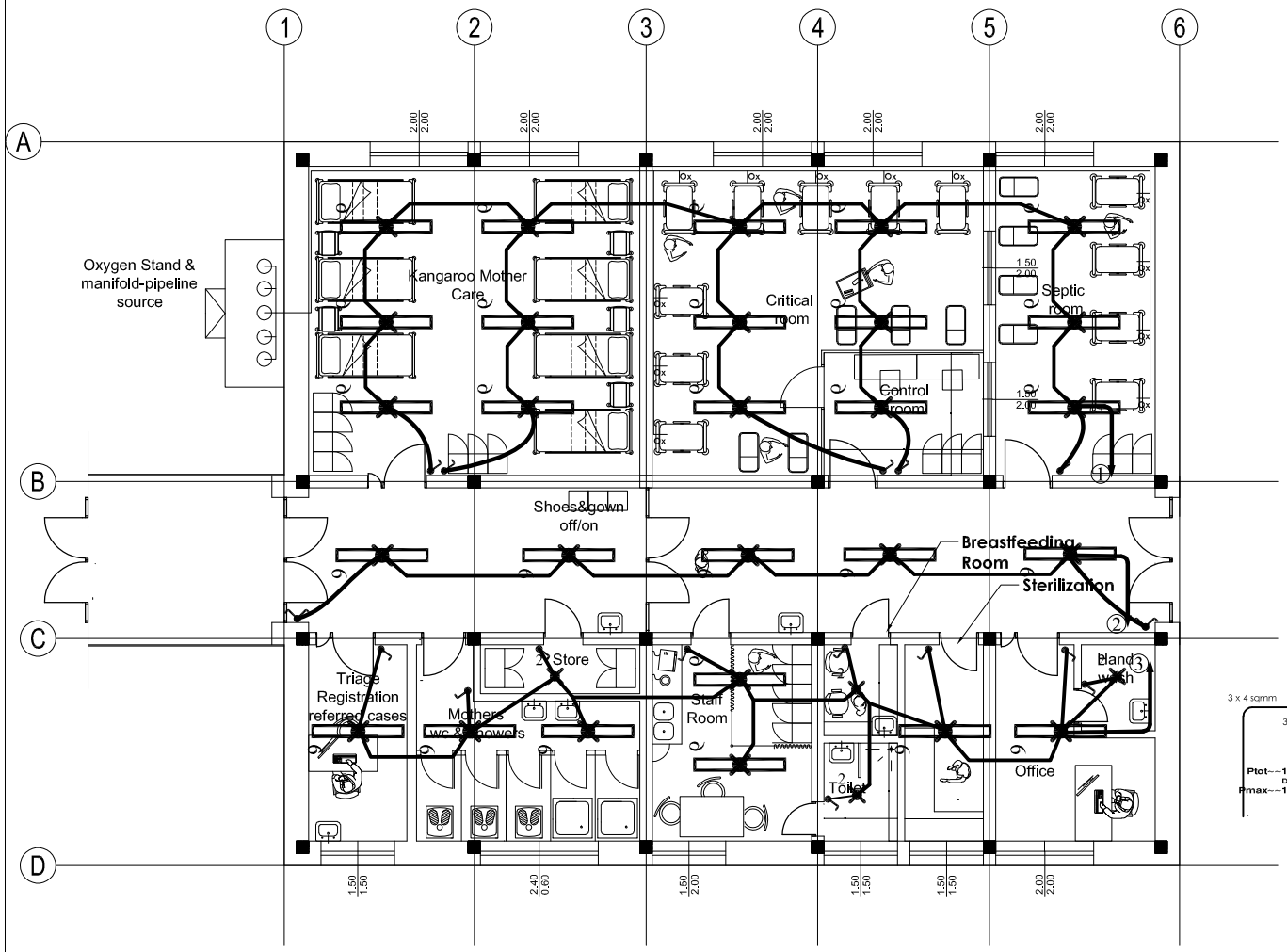
Project Status
☐ New ☐ Modification ☐ As Built

Designed By
Solomon Tesfay

Drawn By
Staff

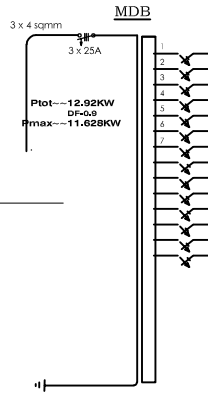
Checked By

Scale 1:50
Date Dec-2024
Drawing No. EL 02/02
Project No.
Paper Size ISO A1



NICU LIGHT LAYOUT

Gynecology Block



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5	SOCKET OUTLET	16	3 x 2.5	5.60		o	
6	SOCKET OUTLET	16	3 x 2.5	2.00			o
7	SOCKET OUTLET	16	3 x 2.5	3.20	o		
	RESERVE						
	RESERVE						
			TOTAL	12.92	o	o	o

$P_{tot} \approx 12.92KW$ df = 0.90 $P_{max} \approx 11.628KW$ $S_{max} \approx 13.68KVA$ pf = 0.85

GENERAL NOTES

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ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL NICU REHABILITATION

Project Address
Location:
Sub city: Kebele / Wereda:
Parcel No: - House No.: -
Title Deed no.:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Light Layout

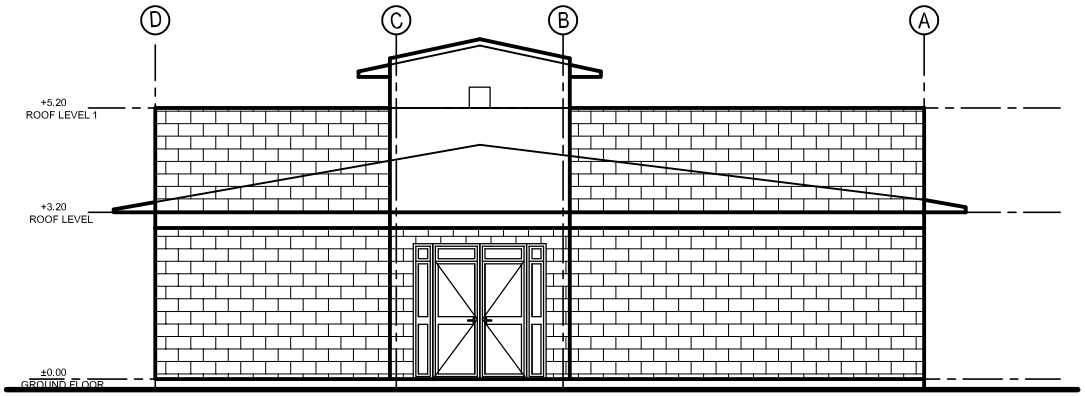
Project Status
☐ New ☐ Modification ☐ As Built

Designed By
Solomon Tesfay

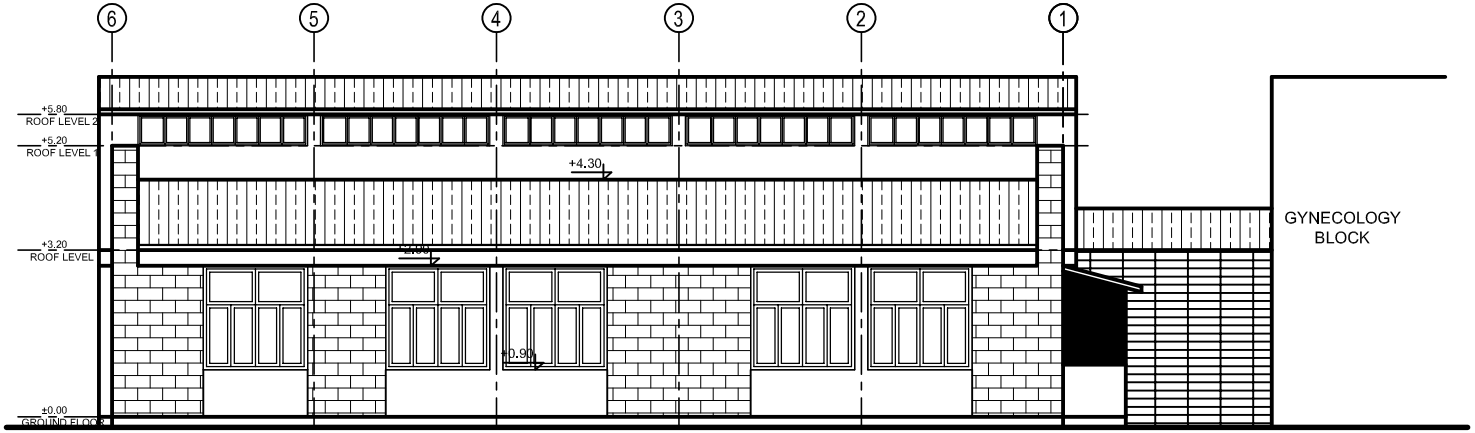
Drawn By
Staff

Checked By

Scale 1:50
Date Dec-2024
Drawing No. EL 01/02
Project No.
Paper Size ISO A1



RIGHT SIDE ELEVATION Scale 1:50



REAR ELEVATION Scale 1:50

GENERAL NOTES

No.	REVISION / ISSUE	DATE

ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL NICU REHABILITATION

Project Address
Location:
Sub city: Kebele / Wereda:
Parcel No: - House No.: -
Title Deed no.:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Elevations

Project Status
☐ New ☐ Modification ☐ As Built

Designed By
Solomon Tesfay

Drawn By
Staff

Checked By

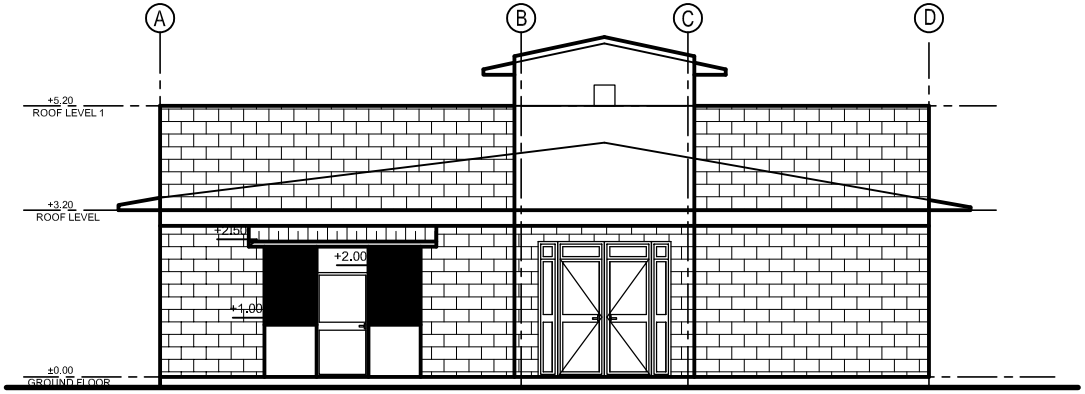
Scale
1:50

Date
Dec-2024

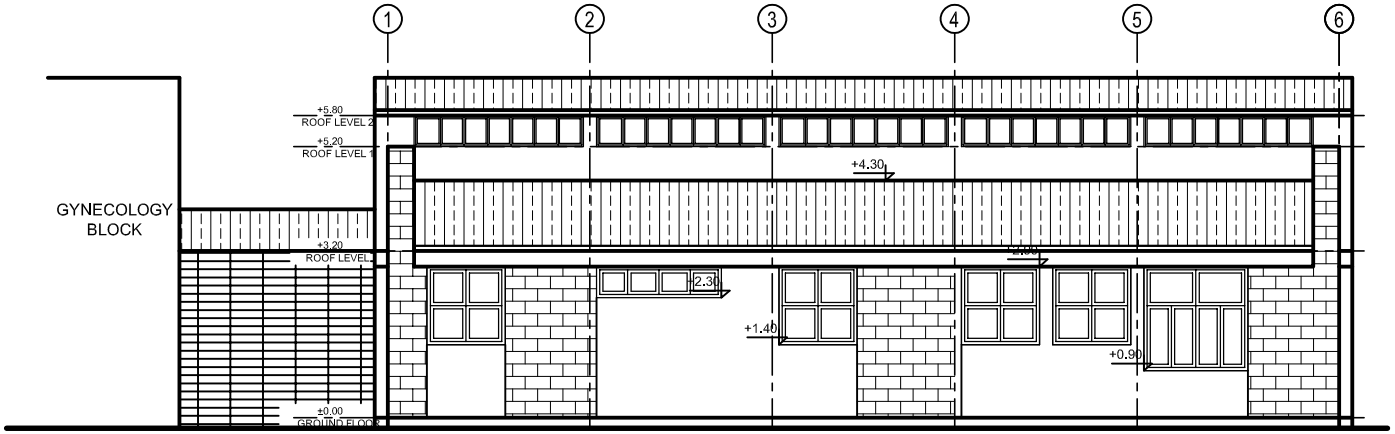
Drawing No.
AR 01/03

Project No.

Paper Size
ISO A1



LEFT SIDE ELEVATION Scale 1:50



FRONT ELEVATION Scale 1:50

GENERAL NOTES

No.	REVISION / ISSUE	DATE

ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL NICU REHABILITATION

Project Address
Location:
Sub city: *Kebele / Wereda:*
Parcel No: - *House No.:* -
Title Deed no.:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Elevations

Project Status
☐ New ☐ Modification ☐ As Built

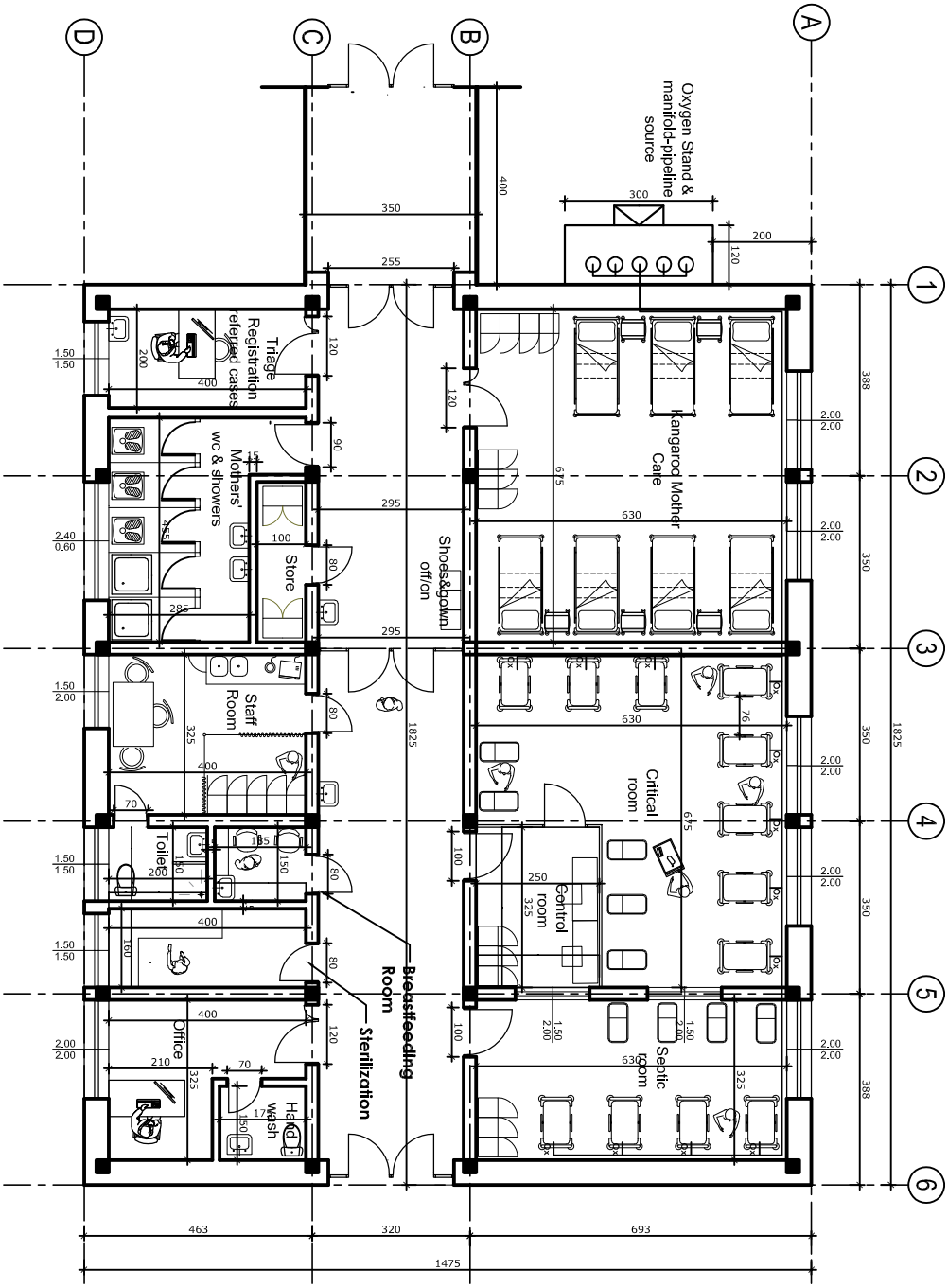
Designed By
Solomon Tesfay

Drawn By
Staff

Checked By

Scale **1:50**
Date **Dec-2024**
Drawing No. **AR 01/03**
Project No.
Paper Size ISO A1

Gynecology Block



GENERAL NOTES

No.	REVISION / ISSUE	DATE

ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL
NICU REHABILITATION

Project Address
Location:
Sub city: Kebele / Wereda:
Parcel No: - House No: -
Title Deed no:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Floor Plans

Project Status
☐ New ☐ Modification ☐ As Built

Designed By
Solomon Tesfay

Drawn By
Staff

Checked By

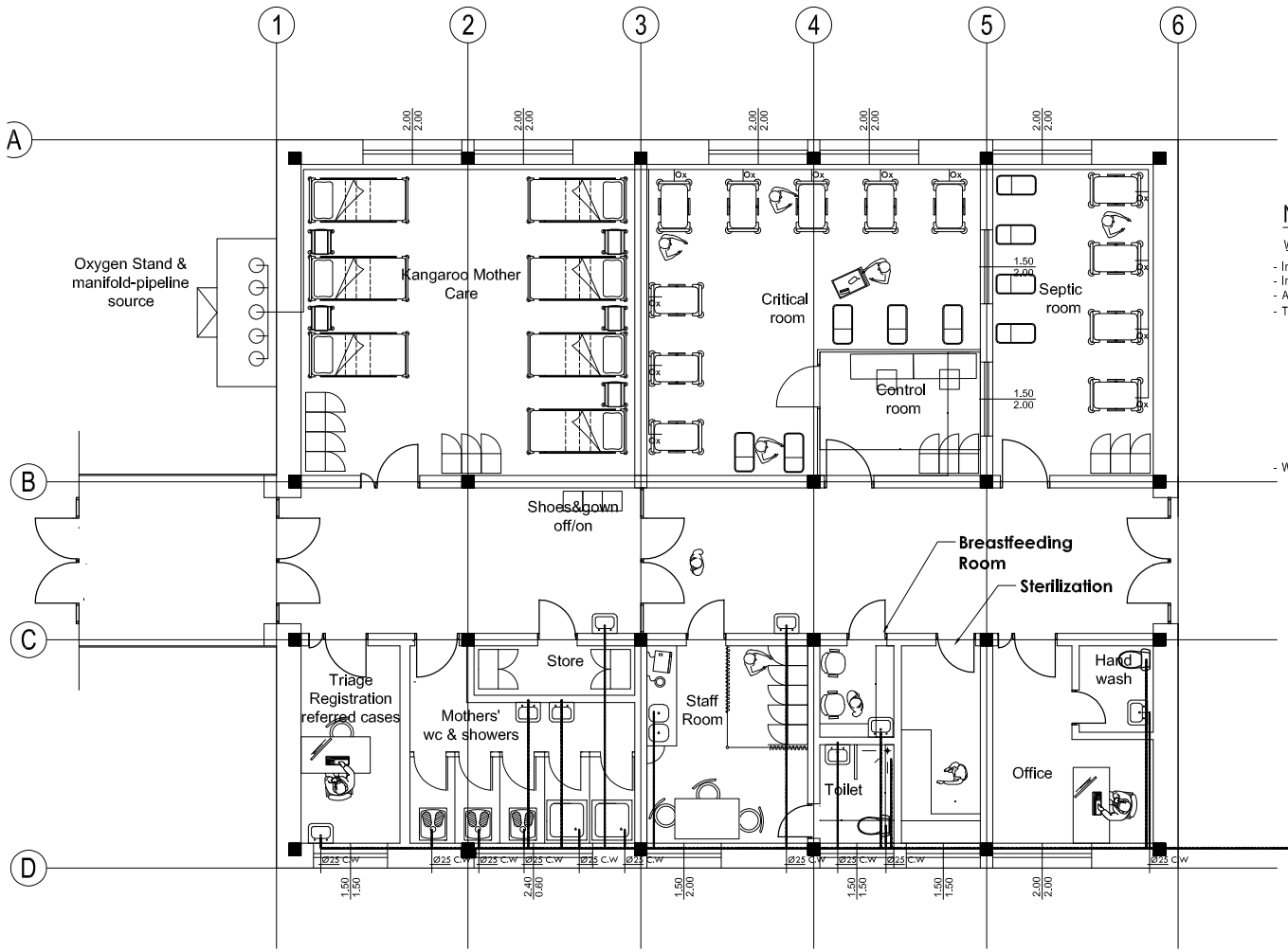
Scale
1:50

Date
Dec-2024

Drawing No.
AR 01/03

Project No.

Paper Size
ISO A1



NOTE

WATER SUPPLY LINES

- Internal water supply pipes should be PPR PN 20 pipes.
- Internal water supply pipes should be PPR PN 20 pipes.
- All PPR pipe diameters used in this drawing are EXTERNAL diameter of the pipe
- The minimum internal diameter of the PPR pipes are given below

PPR PN CONVERSION	
External dimension	Internal diameter (mm)
Ø20	13.2
Ø25	16.6
Ø32	21.2
Ø40	26.6
Ø50	33.4
Ø63	42

- Water supply take off point for fixtures are provided below:-

Fixture take off point	
FIxtures	take off point mini. (m)
HWB/WC	+ 0.5
JS/KS	+ 1.20
UR	+ 1.20-1.60
SH	+ 2.00
IH	+ 1.80-2.0

back-up water tower dedicated to NICU- with direct connection to main reservoir

Water Supply Line Sc.1:50

GENERAL NOTES

No.	REVISION / ISSUE	DATE

ARCHITECTURAL DESIGN

Project Name
SUHUL SHIRE HOSPITAL NICU REHABILITATION

Project Address
Location:
Sub city: Kebele / Wereda:
Parcel No: - House No.: -
Title Deed no.:

Project Owner
DOCTORS WITH AFRICA - CUAMM

Drawing Title
Water Supply Line

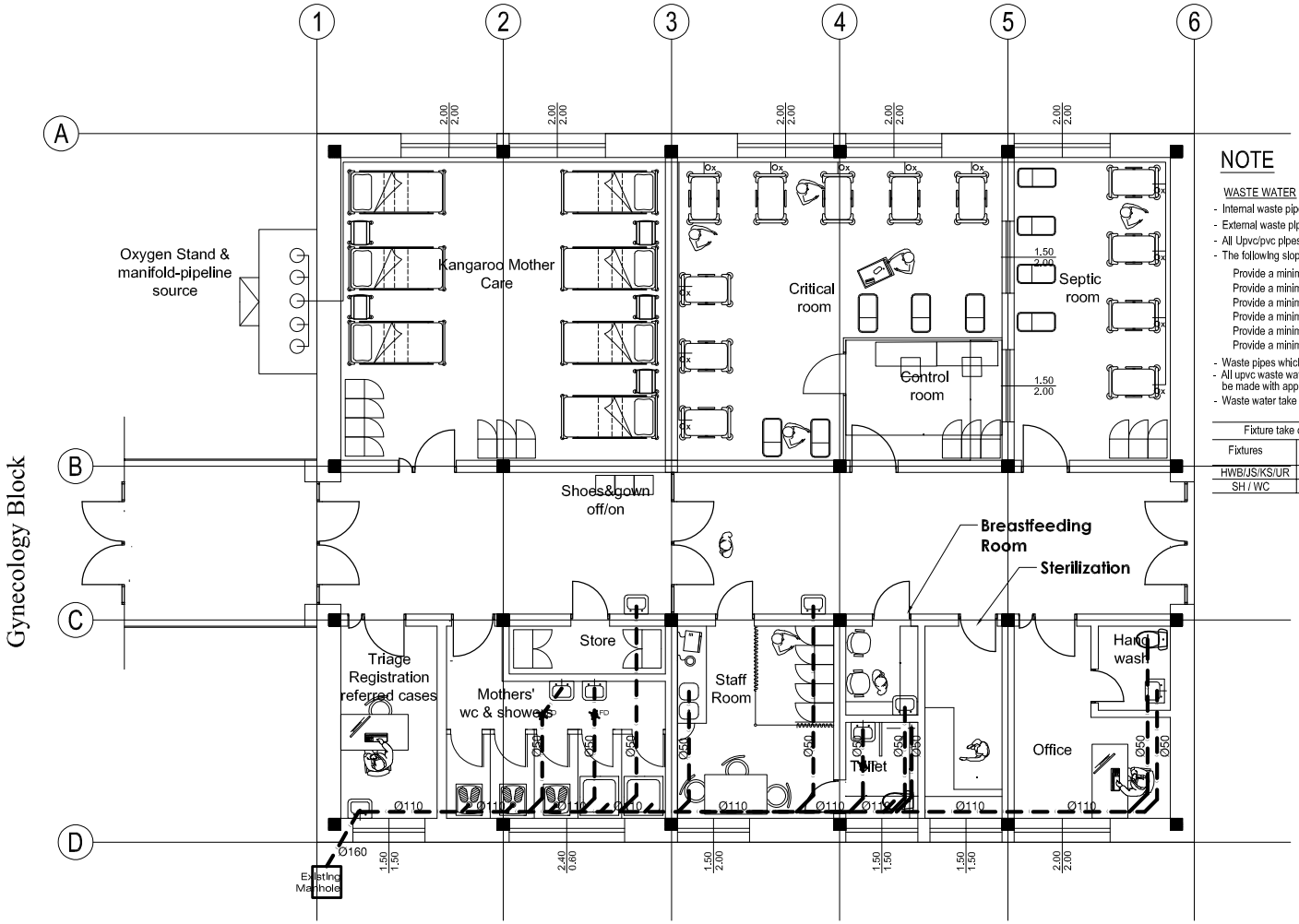
Project Status
☐ New ☐ Modification ☐ As Built

Designed By
Solomon Tesfay

Drawn By
Staff

Checked By

Scale **1:50**
Date **Dec-2024**
Drawing No. **EL 02/02**
Project No.
Paper Size ISO A1



Waste Water Drainage Line Sc.1:50

NOTE

WASTE WATER

- Internal waste pipes should be PVC PN6 and connected with each other with the neccessary fittings.
- External waste pipes should be UPVC PN6 and connected with each other with the neccessary fittings.
- All Upvc/pvc pipes must be connected under the slab and covered by suspended silling.
- The following slope must be met a minimum requirment for UPVC /PVC pipes,

  Provide a minimum of 2.50% slope for Ø50 horizontal drainage pipes.
  Provide a minimum of 1.25% slope for Ø75 horizontal drainage pipes.
  Provide a minimum of 1.25% slope for Ø110 horizontal drainage pipes.
  Provide a minimum of 1.00% slope for Ø125 horizontal drainage pipes.
  Provide a minimum of 0.65% slope for Ø160 horizontal drainage pipes.
  Provide a minimum of 0.65% slope for Ø200 horizontal drainage pipes.
- Waste pipes which is used to connect Manhole to Manholes should be UPVC PN6 type.
- All upvc waste water pipes must not be heated for connection. All piping connection should be made with approved fitting.
- Waste water take off point for fixtures are provided below:-

Fixture take off point	
Fixtures	take off point mini (m)
HWB/JS/KS/UR	+ 0.5
SH / WC	+ 0.00

GENERAL NOTES

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Project Owner
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Drawing Title
Waste Water Drainage Line

Project Status
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Drawn By
Staff

Checked By

Scale 1:50
Date Dec-2024
Drawing No. EL 01/02
Project No.
Paper Size ISO A1