R.INGURAIDOO HEALTH CENTER

SERVICES *DRAWINGS*

Client: Ministry of Health

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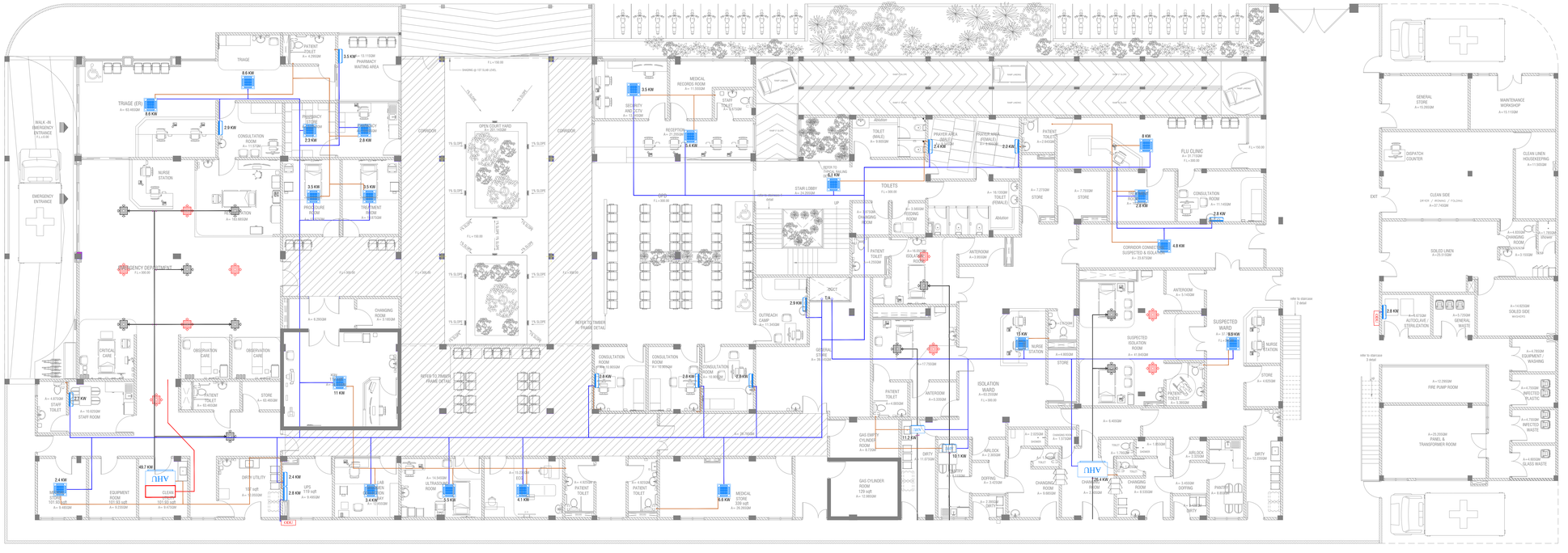

GROUND FLOOR AC LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	CASSETTE UNIT
	OUTDOOR UNIT [TOP DISCHARGE]
ODU	OUTDOOR UNIT [SIDE DISCHARGE]
	CEILING MOUNTED EXHAUST FAN
	FRESH AIR/EXHAUST AIR FAN [DUCT IN LINE]
	WALL MOUNTED FAN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	SUPPLY AIR DUCT WITH THERMAL INSULATION
	RETURN AIR DUCT WITH THERMAL INSULATION
	EXHAUST AIR DUCT
	FRESH AIR DUCT
	VOLUME CONTROL DAMPER
	SUPPLY AIR DIFFUSER WITH DAMPER
	RETURN AIR DIFFUSER WITH DAMPER
	EXHAUST AIR GRILL
	150MM WIDTH SUPPLY AND RETURN AIR GRILL
T/B	TO BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
F/B	FROM BELOW
AHU	AIR HANDLING UNIT
TFA	TREATED FRESH AIR HANDLING UNIT
ODU	OUT DOOR UNIT

SPECIFICATION FOR VRF/VRV

Outdoor Unit
Air cooled VRF / VRV system working in R410A / R -407C or equivalent refrigerant. The system shall be suitable to operate on 3 phase, 380-415 V, 50Hz AC power supply & shall comprises with multiple no's of inverter, digital scroll/screw compressors, air cooled condenser fan with motor, microprocessor control panel, starter controls for all scroll compressors and condenser fan motors along with internal control and power wiring, cooling coil with internally interconnected refrigerant pipes, charging port and all other required accessories, & hardware's. The entire unit shall be with weather resistant powder coating paint for withstanding all ambient conditions for continuous outdoor operation

Indoor unit
Air Conditioning Units suitable for mounting inside false ceiling/wall hang, each comprising of cooling coil, blower with motor, electronic expansion valve,, filter, insulated connection of refrigerant circuit, provision for fresh air intake, condensate water drain pump with electronic level sensor, including wireless remote controller etc

Air Handling Unit (DX type)
AHU having Gi double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.mt) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, pre filter (MERV 7-8) and fine filters (MERV 13).

Air Handling Unit (DX type) for OT,NICU, Labour room,Sterile Areas and Accidents and Emergencies-
AHU having Gi double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.mt) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, ss drain pan,pre filter (MERV 7-8) , fine filters (MERV 13) and HEPA filter[R/H]

NOTE

-The AC unit shall be suitable for operation under tropical condition with ambient temperature and relative humidity .
-Proper access for easy maintenance to be provided as recommended by the manufacturer of AC equipment above false ceiling
-All ceiling suspended unit to be provided with anti vibration hangers spring type
-GI Ducting/Pre insulated duct for common areas and AL Ducting for OTs ,CSSD and sterile areas.
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-Canvas connection to be provided between indoor unit and duct
-Aluminium cladding to be provided over the insulation for the exposed duct and pipe works
-Air outlet shall be completely factory aluminium extruded with powder coated and the colour shall be the approval of the interior design
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-Louver with bird screen to be provided for all the fresh air and exhaust air duct
-Kitchen hood exhaust should be provided in the kitchen areas
-Contractor shall be responsible to provide electrical power requirements to electrical contractor
-Contractor shall be responsible for coordination of all other services
-Contractor shall be responsible to calculating the static pressure for AHU/Exhaust air fan
-Contractor shall be responsible to modify,change,reroute,re locate as per the site condition and submit shop drawing for approval
-Contractor to be provided detailed shop drawings before starting works
-The minimum Energy efficient value for AC [ER] Should be 3.5 [KW/KW]
-All the ACV equipment should be Anti corrosive

Ringaradhoo Health Center
Gaafu Alifu, Ministry of Health

Architect: Yoon Lim Lamia Shareef
Engineer:
Drawn By: Mariyam Inaisha Shareef
Checked By:

No	By	Date
1		21.10.2022

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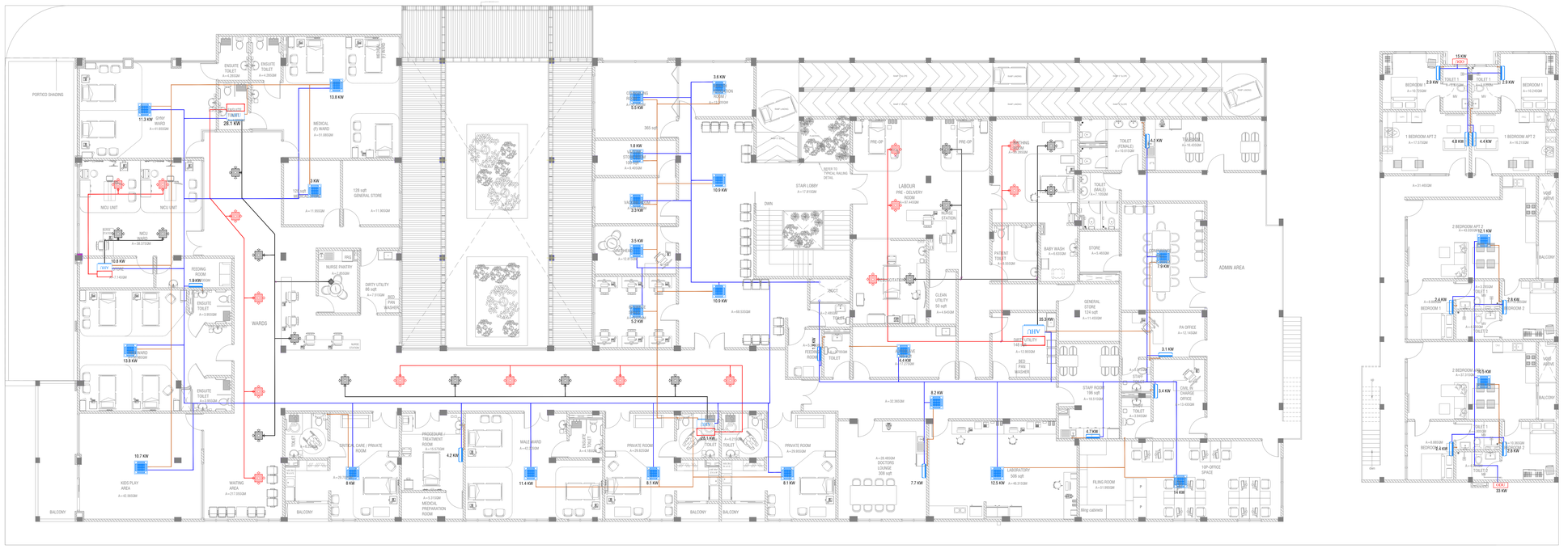
Title: AC LAYOUT
GROUND FLOOR PLAN

Page: AC-01/03



FIRST FLOOR AC LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	CASSETTE UNIT
	OUTDOOR UNIT [TOP DISCHARGE]
CODU	OUTDOOR UNIT [SIDE DISCHARGE]
	CEILING MOUNTED EXHAUST FAN
	FRESH AIR/EXHAUST AIR FAN [DUCT IN LINE]
	WALL MOUNTED FAN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
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	RETURN AIR DUCT WITH THERMAL INSULATION
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	150MM WIDTH SUPPLY AND RETURN AIR GRILL
T/B	TO BELOW
T/A	TO ABOVE
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-Contractor to be provided detailed shop drawings before starting works
-The minimum Energy efficient value for AC [EER] Should be 3.5 [KW/KW]

-All the ACV equipment should be Anti corrosive

Rajarajeshwari Health Center
Govt. Ministry of Health

Architect: Vidyarani Varma (Incharge)
Structure By: Vidyarani Varma (Incharge)
Drawn By: Vidyarani Varma (Incharge)

Rev No	By	Date
1		21.11.2022

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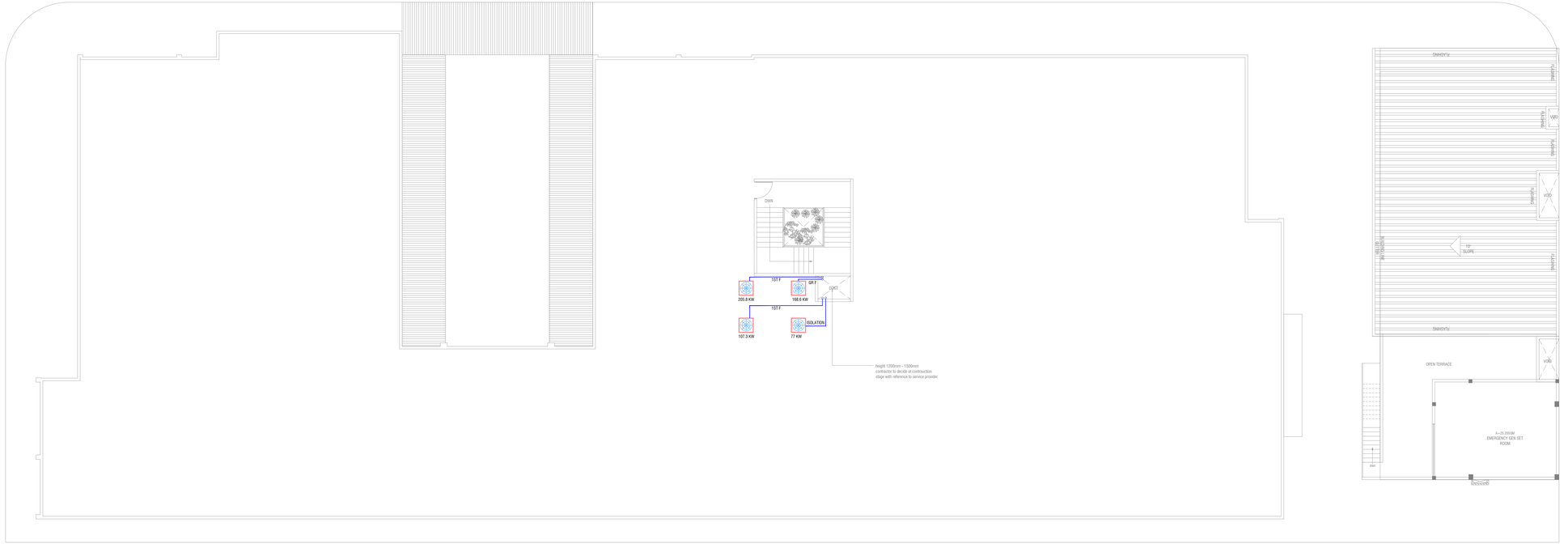
Title: AC LAYOUT
FIRST FLOOR PLAN

Page: AC-02 /03

TERRACE FLOOR AC LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5



ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	4 WAY CASSETTE UNIT
	OUTDOOR UNIT [TOP DISCHARGE]
ODU	OUTDOOR UNIT [SIDE DISCHARGE]
	CEILING MOUNTED EXHAUST FAN
	FRESH AIR/EXHAUST AIR FAN [DUCT IN LINE]
	WALL MOUNTED FAN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	SUPPLY AIR DUCT WITH THERMAL INSULATION
	RETURN AIR DUCT WITH THERMAL INSULATION
	EXHAUST AIR DUCT
	FRESH AIR DUCT
	VOLUME CONTROL DAMPER
	SUPPLY AIR DIFFUSER WITH DAMPER
	RETURN AIR DIFFUSER WITH DAMPER
	EXHAUST AIR GRILL
	150MM WIDTH SUPPLY AND RETURN AIR GRILL
T/B	TO BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
F/B	FROM BELOW
AHU	AIR HANDLING UNIT
TFA	TREATED FRESH AIR HANDLING UNIT
ODU	OUT DOOR UNIT

SPECIFICATION FOR VRF/VRV

Outdoor Unit
Air cooled VRF / VRV system working in R410A / R-407C or equivalent refrigerant. The system shall be suitable to operate on 3 phase, 380-415 V, 50Hz AC power supply & shall comprises with multiple no's of inverter, digital scroll/scrome compressors, air cooled condenser fan with motor, microprocessor control panel, starter controls for all scroll compressors and condenser fan motors along with internal control and power wiring, cooling coil with internally interconnected refrigerant pipes, charging port and all other required accessories, & hardware's. The entire unit shall be with weather resistant powder coating paint for withstanding all ambient conditions for continuous outdoor operation

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Air Handling Unit (DX type)
AHU having SI double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.mt) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, pre filter (MERV 7.8) and fine filters (MERV 13).

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NOTE

-The AC unit shall be suitable for operation under tropical condition with ambient temperature and relative humidity

-Proper access for easy maintenance to be provided as recommended by the manufacturer of AC equipment above false ceiling

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-Canvas connection to be provided between indoor unit and duct

-Aluminium cladding to be provided over the insulation for the exposed duct and pipe works

-Air outlet shall be completely factory aluminium extruded with powder coated and the colour shall be the approval of the interior design

-Air outlet location and size shall be adjusted to suit reflected ceiling drawing,or site condition

-Louver with bird screen to be provided for all the fresh air,and exhaust air duct

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-The minimum Energy efficient value for AC [EER] Should be 3.5 [KW/KW]

-All the ACV equipment should be Anti corrosive

Rajarajeshwari Health Center
Govt. Ltd., Ministry of Health
Cuttack, Odisha

Architect: Manojam Varma [Varma]
Structural Engineer:
Client: Manojam Varma [Varma]
Drawn By: Manojam Varma [Varma]
Scale: 1:100

No	By	Date
1	.....	21.10.2021
2	.....	.....
3	.....	.....
4	.....	.....

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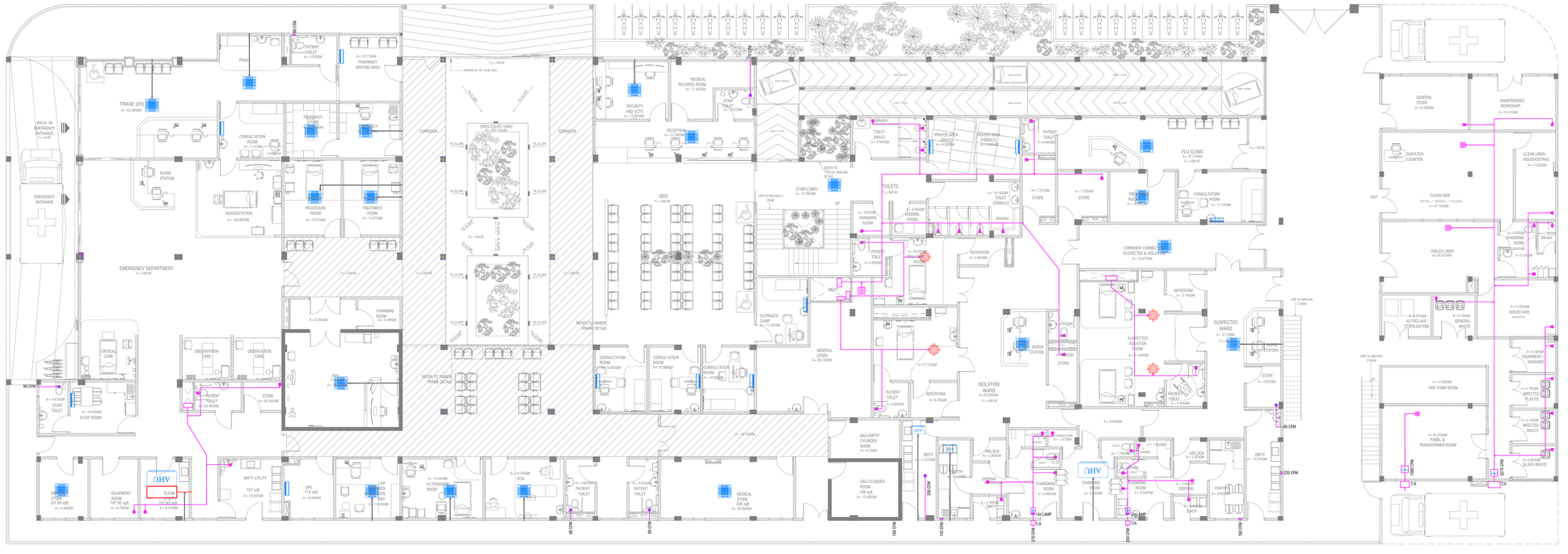
Title: AC LAYOUT
TERRACE FLOOR PLAN

Page: AC-03 /03



GROUND FLOOR VENTILATION LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	CASSETTE UNIT
	OUTDOOR UNIT (TOP DISCHARGE)
CDU	OUTDOOR UNIT (SIDE DISCHARGE)
	CEILING MOUNTED EXHAUST FAN
FAU	FRESH AIR/EXHAUST AIR FAN [DUCT IN LINE]
	WALL MOUNTED FAN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	SUPPLY AIR DUCT WITH THERMAL INSULATION
	RETURN AIR DUCT WITH THERMAL INSULATION
	EXHAUST AIR DUCT
	FRESH AIR DUCT
	VOLUME CONTROL DAMPER
	SUPPLY AIR DIFFUSER WITH DAMPER
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	EXHAUST AIR GRILL
	150MM WIDTH SUPPLY AND RETURN AIR GRILL
T/B	TO BELOW
T/A	TO ABOVE
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F/B	FROM BELOW
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AHU having GI double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.m) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, pre filter (MERV 7/8) and fine filters (MERV 13).

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Rinpungthang Health Center
Paro, Ministry of Health

Architect: Yeshi Lam / Lacha Dorjee
Engineer:
Drawn By: Yeshi Lam / Lacha Dorjee
Checked By:

No	By	Date
1		21.11.2022
2		
3		
4		

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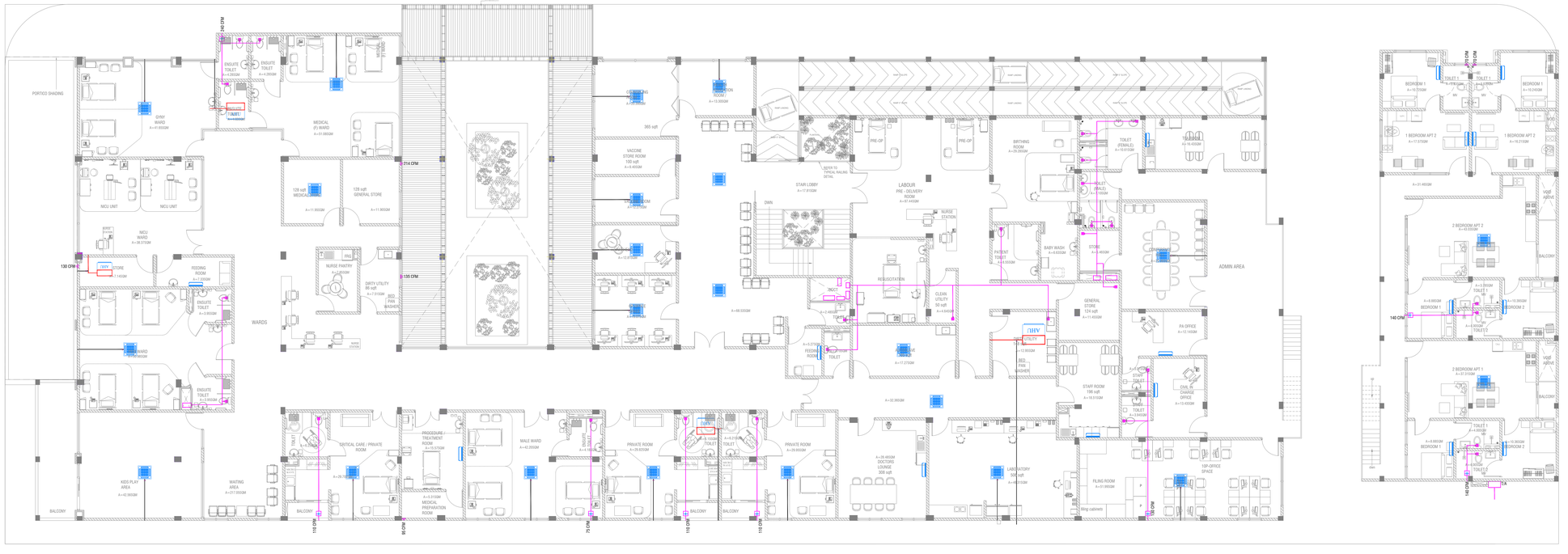
Title: VENTILATION LAYOUT GROUND FLOOR PLAN

Page: V-01 /03



FIRST FLOOR VENTILATION LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	CASSETTE UNIT
	OUTDOOR UNIT [TOP DISCHARGE]
CODU	OUTDOOR UNIT [SIDE DISCHARGE]
	CEILING MOUNTED EXHAUST FAN
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Rajarajeshwari Health Center
Govt. Ltd., Ministry of Health

Architect: Vidyaram Sankaranarayanan
Drawn By: Vidyaram Sankaranarayanan
Checked By: Vidyaram Sankaranarayanan

No	By	Date
1		21.11.2022

RIYAN PRIVATE LIMITED

Title: VENTILATION LAYOUT FIRST FLOOR PLAN

Page: V-02 /03

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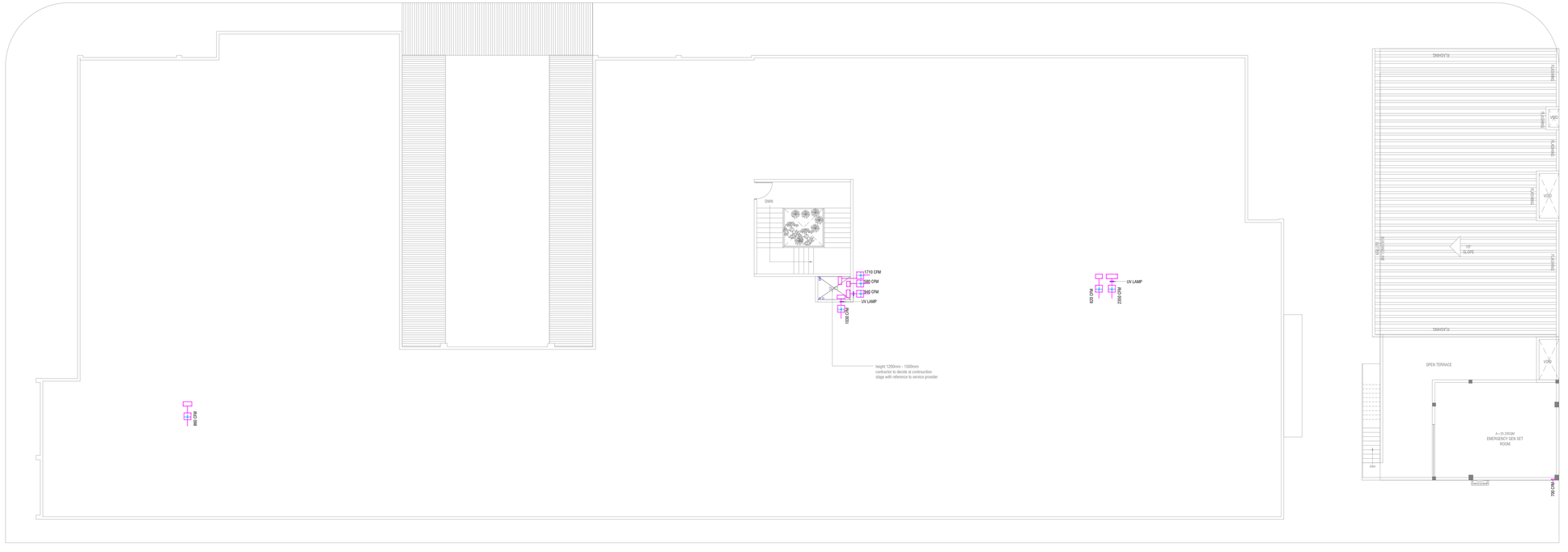

TERRACE FLOOR VENTILATION LAYOUT

SCALE 1:100

1 0.5 1 2 3 4 5

ACV LEGEND & ABBREVIATION

AHU	AIR HANDLING UNIT
	WALL MOUNTED UNIT
	4 WAY CASSETTE UNIT
	OUTDOOR UNIT [TOP DISCHARGE]
ODU	OUTDOOR UNIT [SIDE DISCHARGE]
	CEILING MOUNTED EXHAUST FAN
	FRESH AIR/EXHAUST AIR FAN [DUCT IN LINE]
	WALL MOUNTED FAN
	REFRIGERANT PIPES WITH INSULATION
	AC DRAIN PIPES WITH INSULATION
	SUPPLY AIR DUCT WITH THERMAL INSULATION
	RETURN AIR DUCT WITH THERMAL INSULATION
	EXHAUST AIR DUCT
	FRESH AIR DUCT
	VOLUME CONTROL DAMPER
	SUPPLY AIR DIFFUSER WITH DAMPER
	RETURN AIR DIFFUSER WITH DAMPER
	EXHAUST AIR GRILL
	150MM WIDTH SUPPLY AND RETURN AIR GRILL
T/B	TO BELOW
T/A	TO ABOVE
F/A	FROM ABOVE
F/B	FROM BELOW
AHU	AIR HANDLING UNIT
TFA	TREATED FRESH AIR HANDLING UNIT
ODU	OUT DOOR UNIT

SPECIFICATION FOR VRV/VRV

Outdoor Unit
Air cooled VRF / VRV system working in R410A / R -407C or equivalent refrigerant. The system shall be suitable to operate on 3 phase, 380-415 V, 50Hz AC power supply & shall comprises with multiple no's of inverter, digital scroll/scrome compressors, air cooled condenser fan with motor, microprocessor control panel, starter controls for all scroll compressors and condenser fan motors along with internal control and power wiring, cooling coil with internally interconnected refrigerant pipes, charging port and all other required accessories, & hardware's. The entire unit shall be with weather resistant powder coating paint for withstanding all ambient conditions for continuous outdoor operation

Indoor unit
Air Conditioning Units suitable for mounting inside false ceiling/wall hang, each comprising of cooling coil, blower with motor, electronic expansion valve,, filter, insulated connection of refrigerant circuit, provision for fresh air intake ducting, condensate water drain pump with electronic level sensor, including wireless remote controller etc

Air Handling Unit (DX type)
AHU having GI double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.mt) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, pre filter (MERV 7-8) and fine filters (MERV 13).

Air Handling Unit (DX type) for OT,NICU, Labour room,Sterile Areas and Accidents and Emergencies-
AHU having GI double skin (0.6/0.8 mm thick) sandwich panel (PU injected foam with 45 mm thick, minimum density 40-50 kg/cu.mt) with thermal break aluminium profile and heavy duty unit base. Air Handling Units complete with, dx coil (copper), motor, SIDW/DIDW fan, ss drain pan,pre filter (MERV 7-8) , fine filters (MERV 13) and HEPA Filter[H14]

NOTE

-The AC unit shall be suitable for operation under tropical condition with ambient temperature and relative humidity

-Proper access for easy maintenance to be provided as recommended by the manufacturer of AC equipment above false ceiling

-All ceiling suspended unit to be provided with anti vibration hangers spring type

-GI Ducting/Pre insulated duct for common areas and AL Ducting for OTs ,CSSD and sterile areas

-Acoustic insulation to be provided for duct with minimum 35qm from each AHU unit except OT and CSSD areas AHUs

-Canvas connection to be provided between indoor unit and duct

-Aluminium cladding to be provided over the insulation for the exposed duct and pipe works

-Air outlet shall be completely factory aluminium extruded with powder coated and the colour shall be the approval of the interior design

-Air outlet location and size shall be adjusted to suit reflected ceiling drawing,or site condition

-Louver with bird screen to be provided for all the fresh air and exhaust air duct

-Kitchen hood exhaust should be provided in the kitchen areas

-Contractor shall be responsible to provide electrical power requirements to electrical contractor

-Contractor shall be responsible for coordination of all other services.

-Contractor shall be responsible to calculating the static pressure for AHU/Exhaust air fan

-Contractor shall be responsible to modify,change,reroute,re locate as per the site condition and submit shop drawing for approval

-Contractor to be provided detailed shop drawings before starting works

-The minimum Energy efficient value for AC [EER] Should be 3.5 [KW/KW]

-All the ACV equipment should be Anti corrosive

Rajarajeshwari Health Center
Govt. Hospital, Ministry of Health
Cantonment, Bengaluru

Architect: Manojam Varma Sharief
Structural Engineer:
Client: Dy. Manjunath Varma Sharief
Drawing Title:

Rev No	By	Date
1	.....	21.10.2021
2	.....	.....
3	.....	.....
4	.....	.....
5	.....	.....

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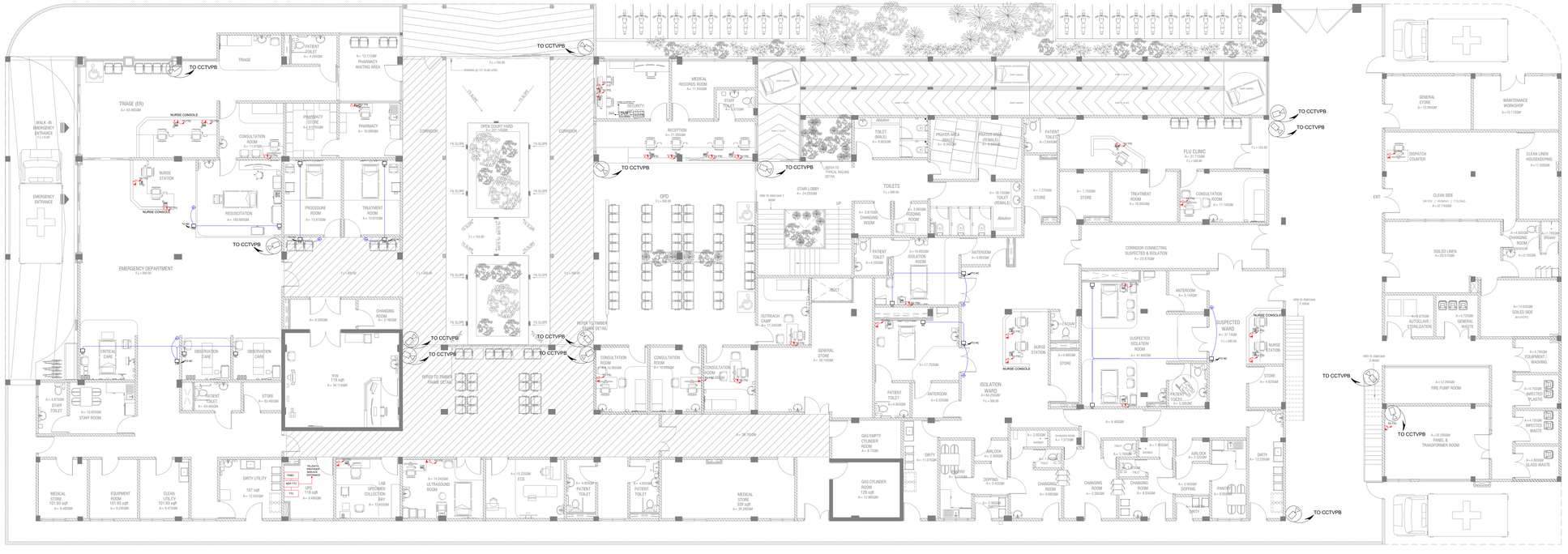
SYSTEM DESIGNERS & CONSULTANTS

Title: VENTILATION LAYOUT
TERRACE FLOOR PLAN

Page: V-03 /03



LEGEND : AUXILIARY SYSTEM

1	CLOSE-CIRCUIT TELEVISION	
2	CLOSE-CIRCUIT TELEVISION PULLBOX	CCTVPB
3	CENTRALIZATION MODULE	CM
4	NURSE CALL	NC
5	PILOT LIGHT	
6	TEL/DATA TERMINAL CABINET	TTC
7	MAIN DISTRIBUTION FRAME - TTC	MDF-TTC
8	TEL/DATA OUTLET	
9	TEL/DATA CIRCUIT RUN	t
10	PRIVATE AUTOMATED BRANCH EXCHANGE	PABX

GROUND FLOOR ICT LAYOUT

SCALE 1:150

0 0.5 1 2 3 4 5

Ringurudhoo Health Center
Gaafaru Ministry of Health

Architect: Yoosuf Ismail Saneef
Checked By: Mariyam Ishaha Shareef
Drawn By: Mariyam Ishaha Shareef
Scale: 1:150

No	By	Date
1		21.11.2022

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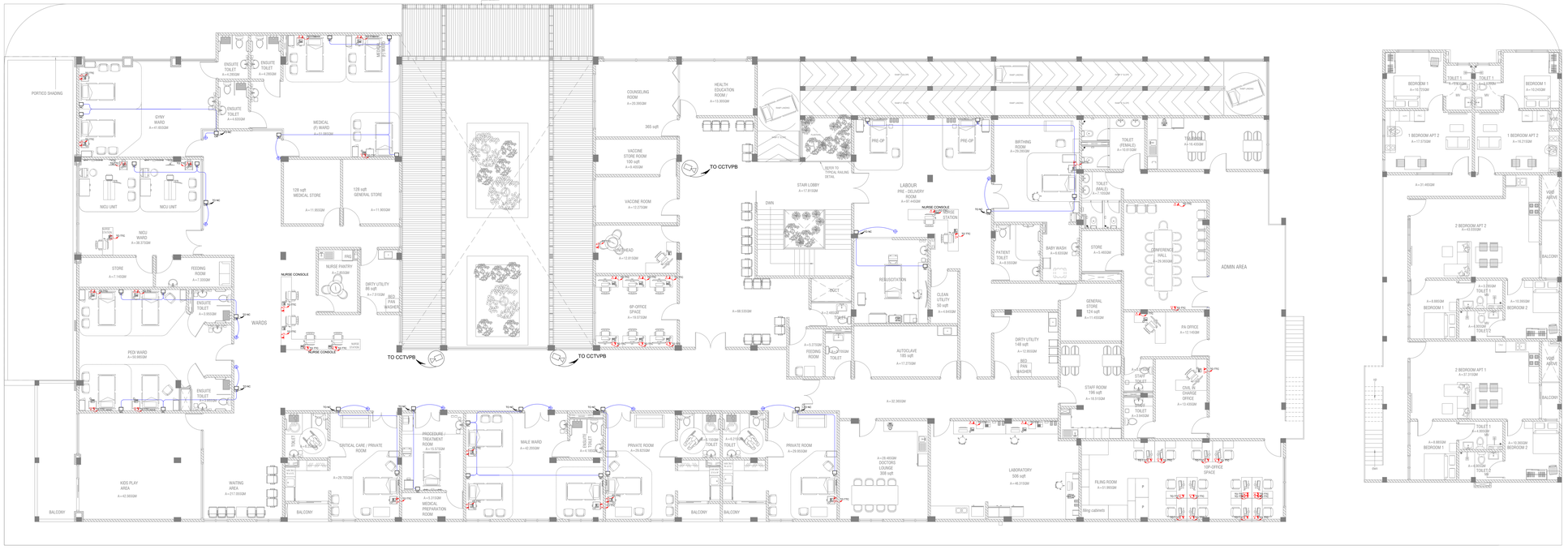
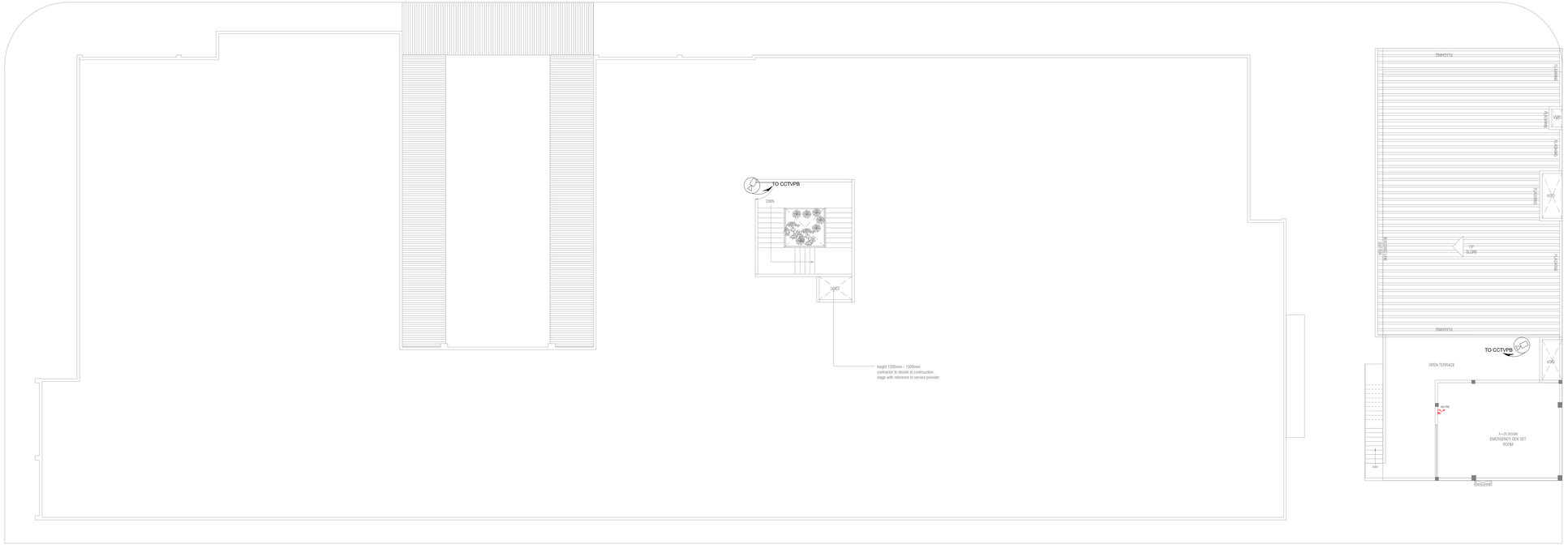
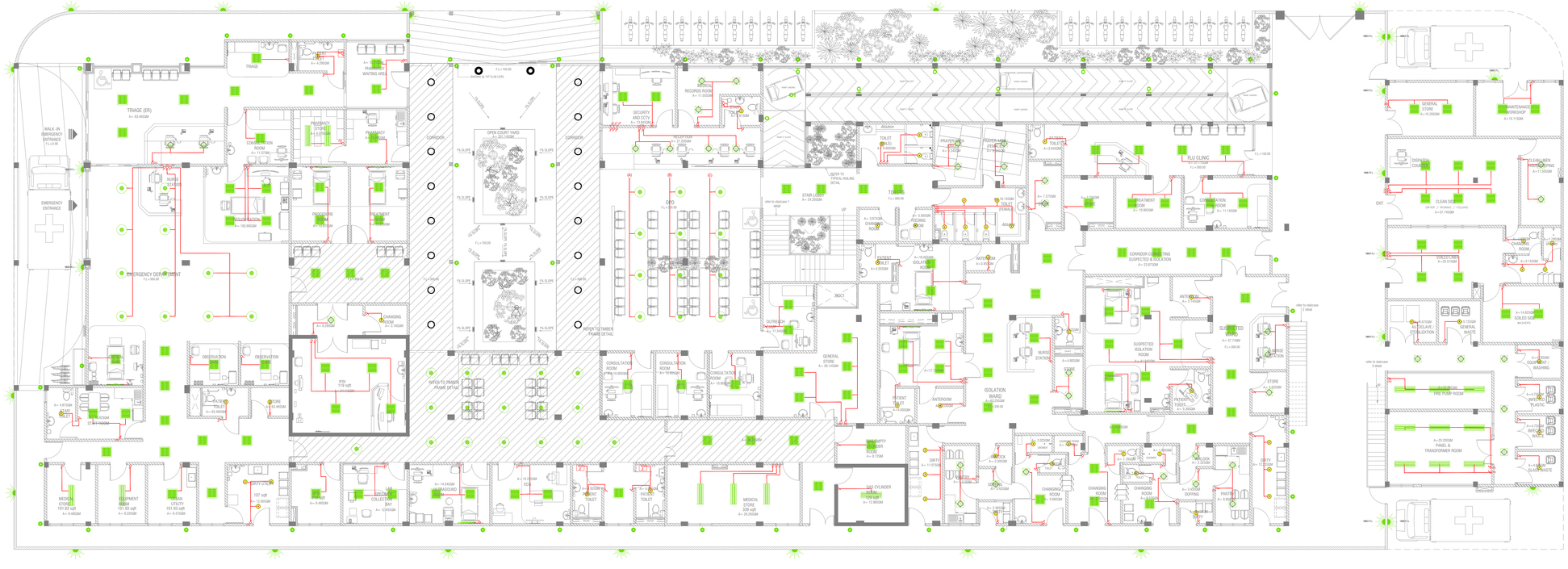
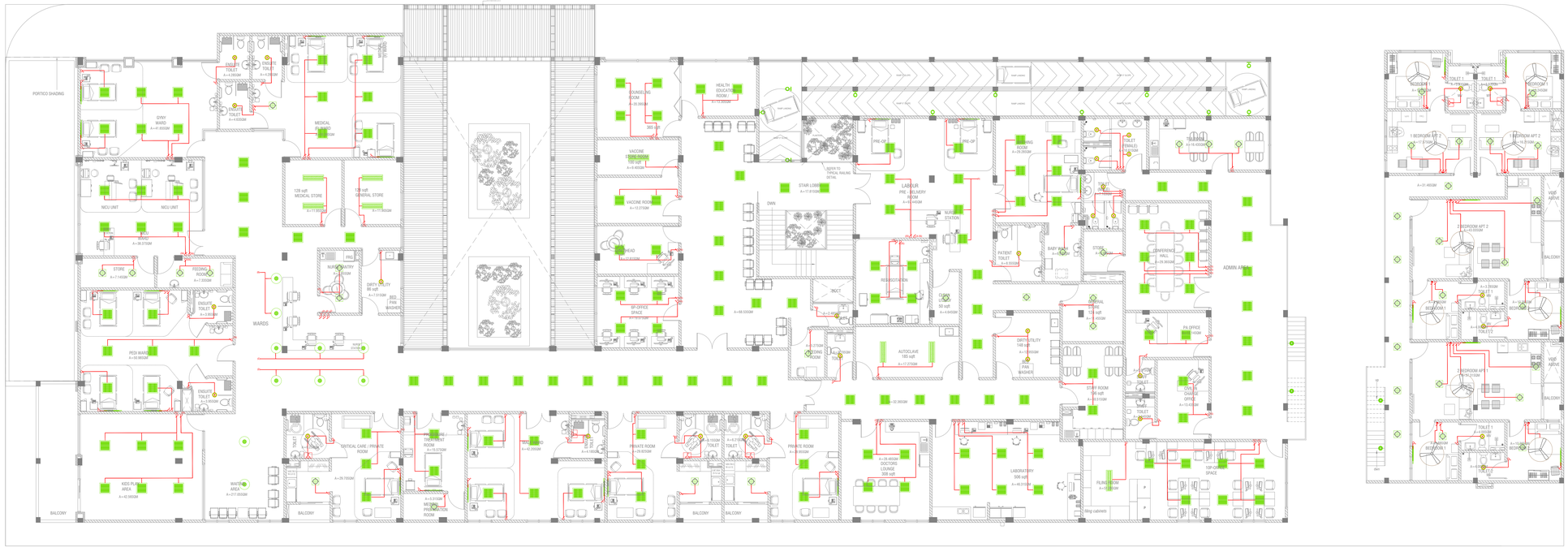
Title: ICT LAYOUT
GROUND FLOOR PLAN

Page: ICT-01


PORTICO SHADING
GYNY WARD A=411.650SM
ENSUITE TOILET A=4.200SM
ENSUITE TOILET A=4.650SM
ENSUITE TOILET A=4.650SM
MEDICAL (F) WARD A=11.950SM
128 sqft MEDICAL STORE A=11.900SM
128 sqft GENERAL STORE A=11.900SM
NICU UNIT
NICU UNIT
NICU WARD A=38.375SM
STORE A=7.140SM
FEEDING ROOM A=7.000SM
ENSUITE TOILET A=3.900SM
WARDS
PEDI WARD A=59.985SM
ENSUITE TOILET A=3.900SM
KIDS PLAY AREA A=42.360SM
WAITING AREA A=217.800SM
BALCONY
NURSE CONSOLE
NURSE PANTRY A=7.800SM
DIRTY UTILITY 96 sqft A=9.000SM
BED PAN WASHER
NURSE CONSOLE
TO CCTVPB
TO CCTVPB
TO CCTVPB
COUNSELING ROOM A=20.390SM
365 sqft
VACCINE STORE ROOM 100 sqft A=9.400SM
VACCINE ROOM A=12.210SM
NURSE HEAD A=12.810SM
SP.OFFICE SPACE A=16.815SM
A=88.530SM
HEALTH EDUCATION ROOM / A=13.300SM
TO CCTVPB
STAIR LOBBY A=17.810SM
REFER TO TYPICAL RAILING DETAIL
DWN
LABOUR PRE - DELIVERY ROOM A=47.440SM
PRE-OP
PRE-OP
NURSE CONSOLE
NURSE STORAGE STATION
RESUSCITATION
INJECT A=2.480SM
CLEAN UTILITY 55 sqft A=4.640SM
A=5.070SM FEEDING ROOM
TOILET A=4.050SM
AUTOCLAVE 185 sqft A=17.270SM
A=32.360SM
BIRTHING ROOM A=29.280SM
TOILET (FEMALE) A=10.810SM
TOILET (MALE) A=7.100SM
PATIENT TOILET A=3.555SM
BABY WASH A=6.820SM
STORE A=5.460SM
CONFERENCE HALL A=29.365SM
ADMIN AREA
GENERAL STORE 124 sqft A=11.430SM
DIRTY UTILITY 148 sqft A=13.900SM
BED PAN WASHER
STAFF ROOM 196 sqft A=18.510SM
PA OFFICE A=12.140SM
STAFF TOILET A=3.640SM
CIVIL IN CHARGE OFFICE A=13.630SM
SHWR
TOILET
TOILET
TOILET


TO CCTVPB
DWN
OPEN
height 1200mm - 1500mm
contractor to decide at contruction
stage with reference to service provider
DWN(+)1
VOID
VOID
VOID


TRIAGE (ER)
A= 82.4952M
TRIAGE
A= 4.2950M
PHARMACY WAITING AREA
A= 19.0000M
PHARMACY COUNTER
A= 11.5720M
PHARMACY STORE
A= 11.5720M
WALK -IN EMERGENCY ENTRANCE
EMERGENCY ENTRANCE
EMERGENCY DEPARTMENT
A= 1,369.00
NURSES STATION
A= 19.0000M
RESUSCITATION
A= 150.6053M
PROCEDURE
A= 21.0000M
TREATMENT
A= 21.0000M
CORRIDOR
OPEN COURT YARD
A= 251.1400M
1% SLOPE
REFER TO TIMBER FRAME DETAIL
OBSERVATION
A= 19.0000M
TOILET
A= 10.4600M
STORE
A= 10.4600M
STAFF ROOM
A= 8.4700M
MEDICAL STORE
101.93 sqft
A= 9.4650M
EQUIPMENT ROOM
101.93 sqft
A= 9.2550M
UTILITY
101.93 sqft
A= 9.4750M
DIRTY UTILITY
107 sqft
A= 9.9550M
LAB
A= 9.4950M
CAST ROOM
A= 14.5450M
PLASTER
A= 14.5450M
X-RAY COLLECTION BAY
A= 12.6000M
X-RAY
119 sqft
A= 11.0550M
CHANGING ROOM
A= 9.9550M
SECURITY AND CCTV MONITORING
A= 11.5550M
MEDICAL RECORDS ROOM
A= 11.5550M
RECEPTION
A= 21.0000M
STORE
A= 11.5550M
OPD
A= 1,350.00
OUTPATIENT
A= 11.5400M
STAIR LOBBY
A= 24.2000M
refer to staircase 1 detail
UP
TOILET
A= 3.9450M
CHANGING ROOM
A= 3.9450M
TOILET
A= 3.9450M
TOILET
A= 3.9450M
PRAYER AREA
A= 9.4950M
REFRESHMENT AREA
A= 9.9550M
TOILET
A= 3.9450M
TOILET
A= 3.9450M
TOILET
A= 3.9450



FIRST FLOOR LIGHTING LAYOUT

SCALE 1:100

0 1/2 1 2 3 4 5

LIGHTING LEGEND

- LED RECESSED LIGHT TYPE 1 (18W)
- LED STRIP COVER LIGHT IP65 (15W)
- LED RECESSED LIGHT TYPE 2 (20W)
- 600 X 600 LED SQUARE DIFFUSER WITH T5 FITTINGS (30W)
- LED RECESSED LIGHT TYPE 3 (12W)
- LED DOWN LIGHT (20W) - WEATHER PROOF
- FLEX. POWER OUTLET W/ COVER PLATE (EXHAUST FAN)
- CEILING FAN (52" - 54")
- LED OUTDOOR WALL LIGHT UP/DWN (8W) - WEATHER PROOF
- LED SPKE LIGHT (3W)
- OUTDOOR WALL LIGHT 12W - WEATHER PROOF
- LIGHTING SWITCH
- FAN SWITCH
- LIGHTING CABLE
- TROFFER DIFFUSER WITH T5 FITTING (28W)
- LED INDOOR WALL LIGHT UP/DWN (20W)
- OUTDOOR FLOOD LIGHT 60W - WEATHER PROOF

GENERAL NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. TV/IT/MAINTENANCE(HOUSE KEEPING) / COMPUTER POWER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC, WATER HEATER, POE = 2500MM - 2700MM FROM FLOOR FIN. LEVEL
6. EMERGENCY LIGHTS, CASSETTE TYPE AC & AHU EQUIPMENTS POWER SOCKETS ARE PROVIDED IN ABOVE FALSE CEILING.
7. CONTRACTOR SHALL CONSIDER 10% OF EMERGENCY LIGHTS & POWER FROM NORMAL LIGHTS , POWER THROUGH UPS SUPPLY.
8. CONTRACTOR SHALL PROVIDE THE 3PHASE POWER SUPPLY FOR HVAC OUTDOOR UNITS THROUGH PANELS WITH LOCAL ISOLATOR PROVIDE NEAR EQUIPMENTS.
9. OPERATION THEATRE & SPECIAL TREATMENT ROOM LIKE (ECG/EEG, SCAN, RADIOLOGY) LIGHT & POWER CONSUMPTION, EQUIPMENT POWER CONSUMPTION SHALL BE COORDINATED WITH AN SPECIALIST & EQUIPMENT MANUFACTURER & ALL THESE ARE CONNECTED THROUGH UPS SYSTEM TO AVOID POWER FAILURE @ EMERGENCY CASE.
10. CONTRACTOR SHALL CO-ORDINATE WITH OTHER SERVICES AND PROVIDE AS PER SITE REQUIREMENT.
11. CONTRACTOR SHALL PROVIDE IP65 - COVER PLATES FOR OUTDOOR POWER SOCKETS
12. CONTRACTOR SHALL TAKE CARE OF SWITCH & SOCKETS LOCATIONS AS PER SITE REQUIREMENT.
13. ALL THE ELECTRICAL INSTALLATION SHALL BE DONE AS PER CURRENT LOCAL GUIDELINE & REGULATIONS.
14. PROVIDE TWO BODY & NEUTRAL EARTH PITS FOR METERING, HT PANELS TRANSFORMER, D.G SET, PANELS & ANY SPECIALIZED EQUIPMENTS.

NOTE
-All electrical component connected to their respective DB
-All Corridor Lights Shall be Operate Through Timer Control
-Polycarbonate enclosure to all switch and socket which are located at outdoor
-Contractor shall be responsible to coordinate with ACV contractor for power requirements
-Contractor shall be responsible for coordination of all other services
-Contractor shall be responsible to modify,change,reroute,re locate as per the site condition and submit shop drawing for approval
-Contractor to be provided detailed shop drawings before starting works

LIGHTING NOTES

-ALL LIGHTS TO BE CONNECTED TO THEIR RESPECTIVE DB
-ALL CORRIDOR LIGHTS AND OUTDOOR LIGHTS ARE TIMMERD
-CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT AND/OR PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUITING AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION

Ringaradhoo Health Center
Gaafaru Ministry of Health

Architect: Yoosuf Saeed
Drawn By: Mariyam Isnaha Shareef
Checked By:

No	By	Date
01		21.10.2022

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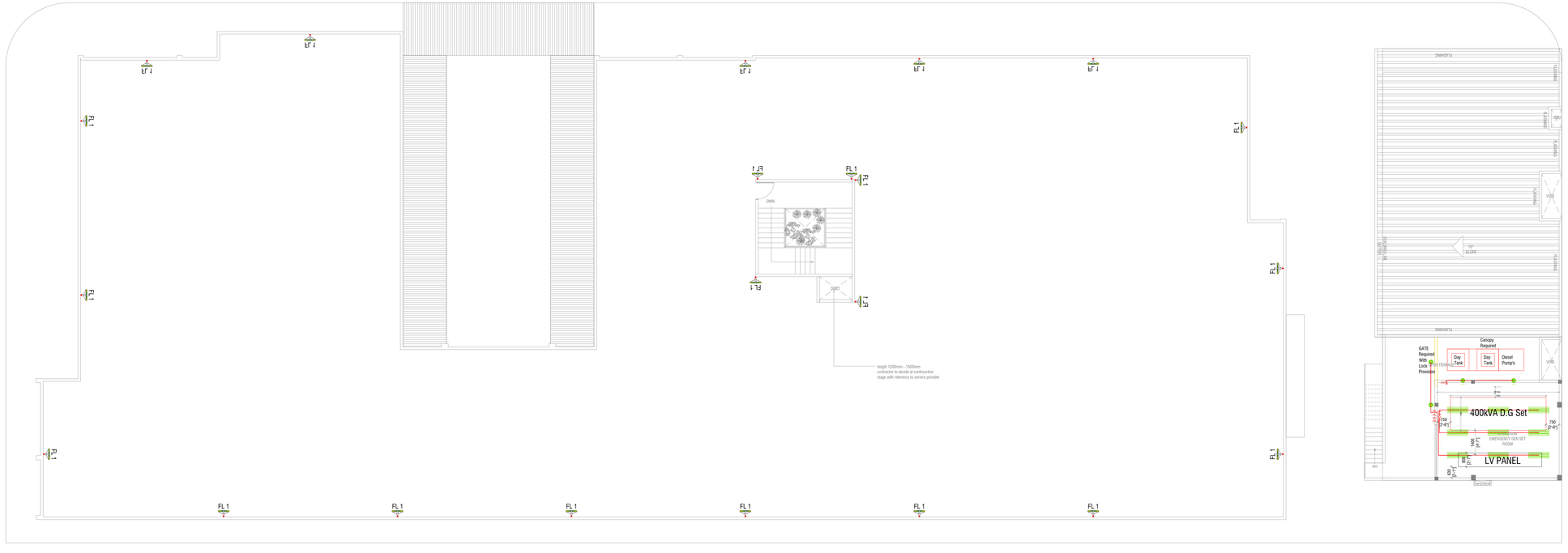
Title: LIGHTING LAYOUT
FIRST FLOOR PLAN

Page: EL-02 /03



LIGHTING LEGEND

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- LED INDOOR WALL LIGHT UP/DWN (20W)
- OUTDOOR FLOOD LIGHT 60W - WEATHER PROOF

GENERAL NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. TV/IT/MAINTENANCE[HOUSE KEEPING]/ COMPUTER POWER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
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6. EMERGENCY LIGHTS, CASSETTE TYPE AC & AHU EQUIPMENTS POWER SOCKETS ARE PROVIDED IN ABOVE FALSE CEILING.
7. CONTRACTOR SHALL CONSIDER 10% OF EMERGENCY LIGHTS & POWER FROM NORMAL LIGHTS , POWER THROUGH UPS SUPPLY.
8. CONTRACTOR SHALL PROVIDE THE 3PHASE POWER SUPPLY FOR HVAC OUTDOOR UNITS THROUGH PANELS WITH LOCAL ISOLATOR PROVIDE NEAR EQUIPMENTS .
9. OPERATION THEATRE & SPECIAL TREATMENT ROOM LIKE [ECG/EEG, SCAN, RADIOLOGY], LIGHT & POWER CONSUMPTION, EQUIPMENT POWER CONSUMPTION SHALL BE COORDINATED WITH A/V SPECIALIST & EQUIPMENT MANUFACTURER & ALL THESE ARE CONNECTED THROUGH UPS SYSTEM TO AVOID POWER FAILURE @ EMERGENCY CASE.
10. CONTRACTOR SHALL CO-ORDINATE WITH OTHER SERVICES AND PROVIDE AS PER SITE REQUIREMENT.
11. CONTRACTOR SHALL PROVIDE IP65 - COVER PLATES FOR OUTDOOR POWER SOCKETS
12. CONTRACTOR SHALL TAKE CARE OF SWITCH & SOCKETS LOCATIONS AS PER SITE REQUIREMENT.
13. ALL THE ELECTRICAL INSTALLATION SHALL BE DONE AS PER CURRENT LOCAL GUIDELINE & REGULATIONS.
14. PROVIDE TWO BODY & NEUTRAL EARTH PITS FOR METERING, HT PANELS TRANSFORMER, D/G SET, PANELS & ANY SPECIALIZED EQUIPMENTS.

NOTE
-All electrical component connected to their respective DB
-All Corridor Lights Shall be Operate Through Timer Control
-Polycarbonate enclosure to all switch and socket which are located at outdoor
-Contractor shall be responsible to coordinate with ACV contractor for power requirements
-Contractor shall be responsible for coordination of all other services
-Contractor shall be responsible to modify,change,reroute,re locate as per the site condition and submit shop drawing for approval
-Contractor to be provided detailed shop drawings before starting works

LIGHTING NOTES

-ALL LIGHTS TO BE CONNECTED TO THEIR RESPECTIVE DB
-ALL CORRIDOR LIGHTS AND OUTDOOR LIGHTS ARE TIMMERD
-CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT AND/OR PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUITING AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION

TERRACE FLOOR LIGHTING LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

Ringaradhoo Health Center
Facility, Ministry of Health
Gaafaru, Maldives

Architect: Yoosuf Saeed
Author: Yoosuf Saeed
Drawn By: Mariyam Isnara Shareef
Checked By:

No	By	Date
1		21.12.2021

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RIYAN PRIVATE LIMITED, 2021

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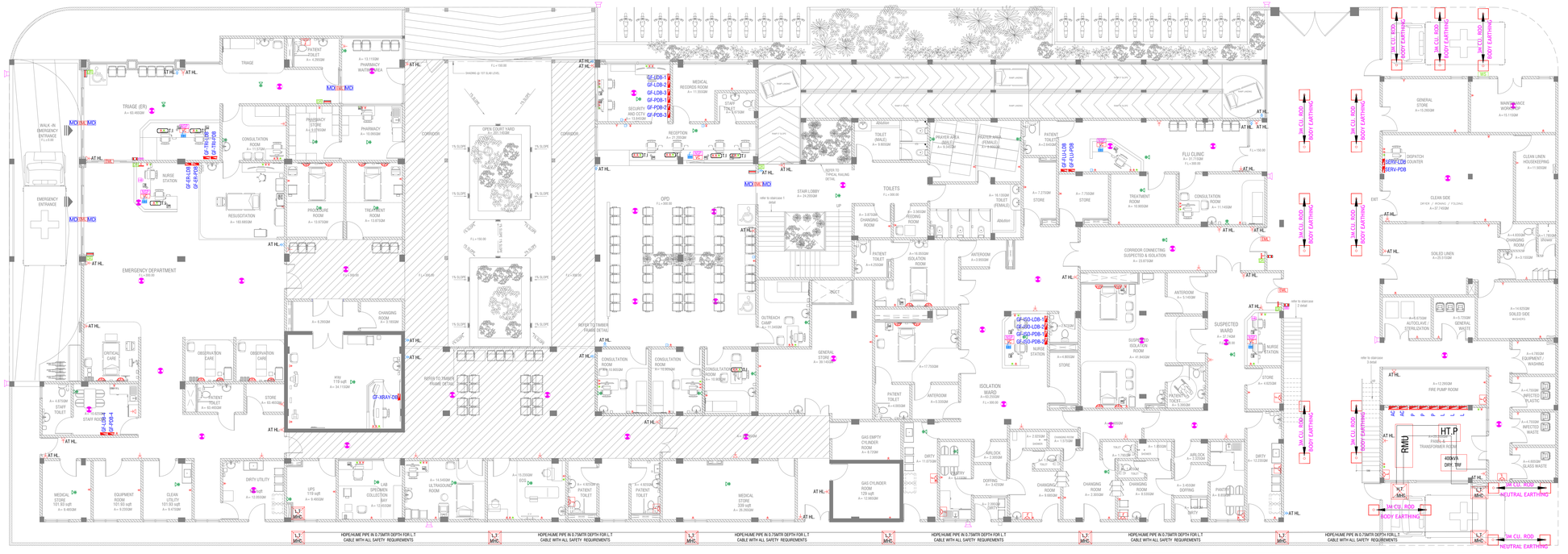
Title: LIGHTING LAYOUT
TERRACE FLOOR PLAN

Page: EL-03 /03



GROUND FLOOR POWER LAYOUT

SCALE 1:100

0 1 2 3 4 5

LIGHTING LEGEND

- TWO GANG TV SOCKET OUTLET
- 13A POWER OUTLET (300MM FROM F.F.L) (ABOVE FALSE CEILING FOR TOKEN MONITORS)
- 13A TWIN SOCKET OUTLET (300MM FROM F.F.L)
- 13A UPS SOCKET OUTLET (300MM FROM F.F.L)
- POWER OVER ETHERNET OUTLET
- 15A POWER OUTLET
- VGA CABLE FOR PROJECTOR
- PROXIMITY CARD READER
- MD AUTOMATIC DOOR MOTION DETECTOR SENSOR
- ACCESS CONTROLLER
- EXIT SWITCH
- DISTRIBUTION BOX
- 13A SOCKETS FOR TOILETS (1500 F.F.L)
- WEATHER PROOF POLYCARBONATE ENCLOSURE
- PAGING MIC
- VC VOLUME CONTROLLER
- WS WALL SPEAKERS AT CEILING LEVEL
- DR EMERGENCY DOOR RELEASE
- NSP NURSE STATION PANEL ROOM INDICATOR
- EML ELECTROMAGNETIC LOCK
- DBB DOOR BELL BUTTON
- DBR DOOR BELL RECEIVER
- HONE SPEAKER
- CEILING SPEAKER
- 8 POWER POINTS ON ENVIROM VERTICAL HEADWALLS CALL POINT TO NURSES STATION: INTEGRATED IN ENVIROM BEDHEAD TRUNK
- T.I TABLE INTEGRATED OR F.F.L OUTLETS
- C.L CEILING LEVEL OUTLETS
- H.L HIGH LEVEL OUTLETS ON WALL

POWER NOTES

- ALL POWER POINTS CONNECTED TO THE RESPECTIVE DB
- CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUITING AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL BE RESPONSIBLE TO MODIFY, CHANGE, REROUTE, RELOCATE THE LIGHTING AND POWER POINTS AS PER THE SITE CONDITIONS AND SUBMIT SHOP DRAWING FOR APPROVAL PRIOR TO CONSTRUCTION
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ELECTRICAL POWER REQUIREMENTS AND POWER POINTS FOR MECHANICAL VENTILATION DEVICES TO ELECTRICAL CONTRACTOR
- RADIOLOGY, ECG AND SCAN ROOMS' POWER CONSUMPTION IS IN GENERAL. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH RELEVANT EQUIPMENT MANUFACTURERS REGARDING EQUIPMENT POWER CONSUMPTION.

GENERAL NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. TV/ITMAINTENANCE(HOUSE KEEPING)/COMPUTER POWER SOCKETS – 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1106MM - 1206MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC, WATER HEATER, POE = 2500MM - 2700MM FROM FLOOR FIN. LEVEL
6. EMERGENCY LIGHTS, CASSETTE TYPE AC & AHU EQUIPMENTS POWER SOCKETS ARE PROVIDED IN ABOVE FALSE CEILING.
7. CONTRACTOR SHALL CONSIDER 10% OF EMERGENCY LIGHTS & POWER FROM NORMAL LIGHTS , POWER THROUGH UPS SUPPLY.
8. CONTRACTOR SHALL PROVIDE THE 3PHASE POWER SUPPLY FOR HVAC OUTDOOR UNITS THROUGH PANELS WITH LOCAL ISOLATOR PROVIDE NEAR EQUIPMENTS.
9. OPERATION THEATRE & SPECIAL TREATMENT ROOM LIKE [ECG/EEG, SCAN, RADIOLOGY] LIGHT & POWER CONSUMPTION, EQUIPMENT POWER CONSUMPTION SHALL BE COORDINATED WITH AN SPECIALIST & EQUIPMENT MANUFACTURER & ALL THESE ARE CONNECTED THROUGH UPS SYSTEM TO AVOID POWER FAILURE @ EMERGENCY CASE.
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12. CONTRACTOR SHALL TAKE CARE OF SWITCH & SOCKETS LOCATIONS AS PER SITE REQUIREMENT.
13. ALL THE ELECTRICAL INSTALLATION SHALL BE DONE AS PER CURRENT LOCAL GUIDELINE & REGULATIONS.
14. PROVIDE TWO BODY & NEUTRAL EARTH PITS FOR METERING, HT PANELS TRANSFORMER, D.G SET, PANELS & ANY SPECIALIZED EQUIPMENTS.

NOTE

-All electrical component connected to their respective DB

-All Corridor Lights Shall be Operate Through Timer Control

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-Contractor to be provided detailed shop drawings before starting works

Rungwathobo Health Center
Central, Ministry of Health

No	By	Date
01		21.10.2022

Architect: Maryam Lamia Shareef
Architect: Maryam Lamia Shareef
Drawn By: Maryam Hamza Shareef
Checked By:

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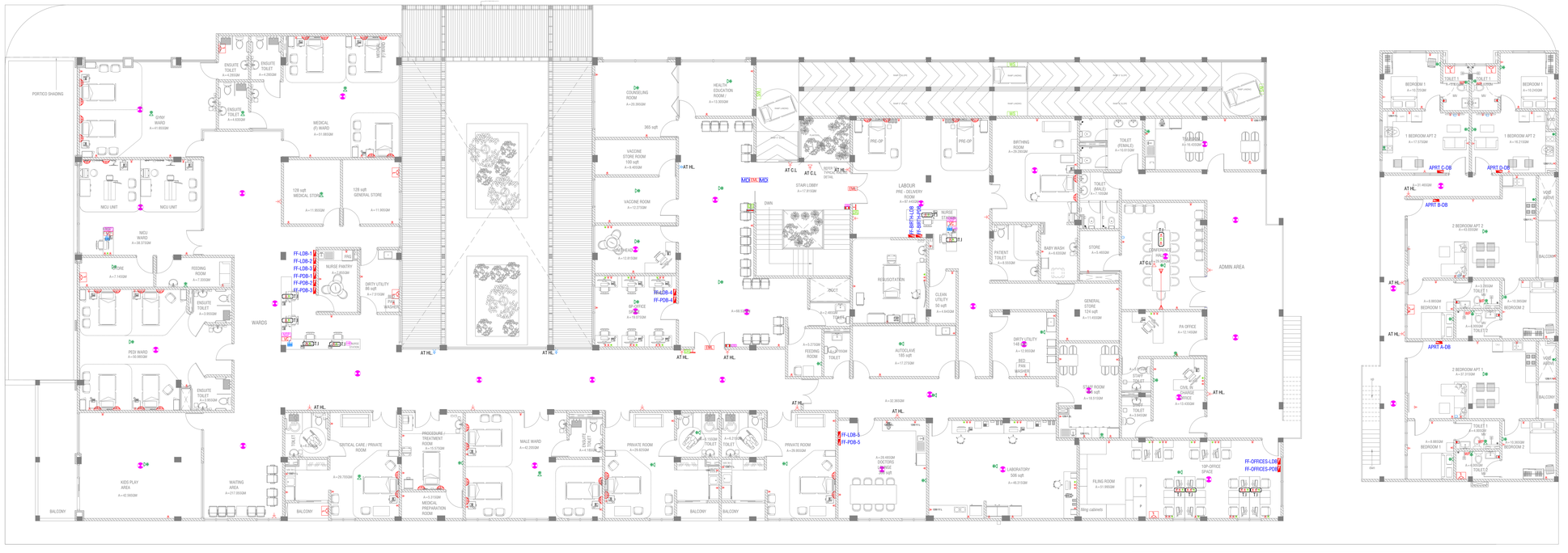
RYAN PRIVATE LIMITED

Title: POWER LAYOUT GROUND FLOOR PLAN

Page: EP-01/03



FIRST FLOOR POWER LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

GENERAL NOTE:

1. ALL WIRING TO BE OF APPROVED STANDARDS
2. TV/IT/MAINTENANCE/[HOUSE KEEPING] / COMPUTER POWER SOCKETS = 300MM - 450MM FROM FLOOR FIN. LEVEL
3. SWITCH CONTROL / SOCKET = 1100MM - 1200MM FROM FLOOR FIN. LEVEL
4. KITCHEN SOCKETS / PANTRY SOCKETS = 1150MM - 1250MM FROM FLOOR FIN. LEVEL
5. AC, WATER HEATER, POE = 2500MM - 2700MM FROM FLOOR FIN. LEVEL
6. EMERGENCY LIGHTS, CASSETTE TYPE AC & AHU EQUIPMENTS POWER SOCKETS ARE PROVIDED IN ABOVE FALSE CEILING.
7. CONTRACTOR SHALL CONSIDER 10% OF EMERGENCY LIGHTS & POWER FROM NORMAL LIGHTS , POWER THROUGH UPS SUPPLY.
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LIGHTING LEGEND

- TWO GANG TV SOCKET OUTLET
- 13A POWER OUTLET (300MM FROM F.F.L) (ABOVE FALSE CEILING FOR TOKEN MONITORS)
- 13A TWIN SOCKET OUTLET (300MM FROM F.F.L)
- 13A UPS SOCKET OUTLET (300MM FROM F.F.L)
- POWER OVER ETHERNET OUTLET
- 15A POWER OUTLET
- VGA CABLE FOR PROJECTOR
- PROXIMITY CARD READER
- EXIT SWITCH
- DISTRIBUTION BOX
- 13A SOCKETS FOR TOILETS (1500 F.F.L)
- WEATHER PROOF POLYCARBONATE ENCLOSURE
- FLEX. POWER OUTLET W/ COVER PLATE (EXHAUST FAN)
- SINGLE PHASE INDUSTRIAL SOCKET - IP-66
- THREE PHASE INDUSTRIAL SOCKET - IP -66
- PAGING MIC
- VC VOLUME CONTROLLER
- WS WALL SPEAKERS AT CEILING LEVEL
- DR EMERGENCY DOOR RELEASE
- NSP NURSE STATION PANEL ROOM INDICATOR
- EML ELECTROMAGNETIC LOCK
- DBB DOOR BELL BUTTON
- DBR DOOR BELL RECEIVER
- HONE SPEAKER
- CEILING SPEAKER
- 8 POWER POINTS ON ENVIROM VERTICAL HEADWALLS CALL POINT TO NURSES STATION: INTEGRATED IN ENVIROM BEDHEAD TRUNK
- TCP THEATER CONTROL PANEL (INCLUDES TELEPHONE UNIT,FIRE ALARM STROBE,MEDICAL GAS INDICATOR UNIT)
- T.I TABLE INTEGRATED OR F.F.L OUTLETS
- C.L CEILING LEVEL OUTLETS
- H.L HIGH LEVEL OUTLETS ON WALL

POWER NOTES

- ALL POWER POINTS CONNECTED TO THE RESPECTIVE DB
- CONTRACTOR TO PREPARE SHOP DRAWINGS AND GET APPROVAL FROM CONSULTANT/PROJECT MANAGER FOR ALL LIGHTS, SWITCHES, DB, PANEL BOARD, EAC, REQUIRED ISOLATORS, ACV SERVICES AND OTHER RELEVANT LIGHTING AND POWER POINT LOCATIONS INCLUDING CONDUITING AND WIRING AND TO BE VERIFIED AT SITE PRIOR TO CONSTRUCTION
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Ringarathoo Health Center
Centre, Ministry of Health

No	By	Date
1		21.10.2022

Architect: Yasmeen Ismail Shareef
Engineer:
Drawn By: Mariyam Inaisha Shareef
Checked By:

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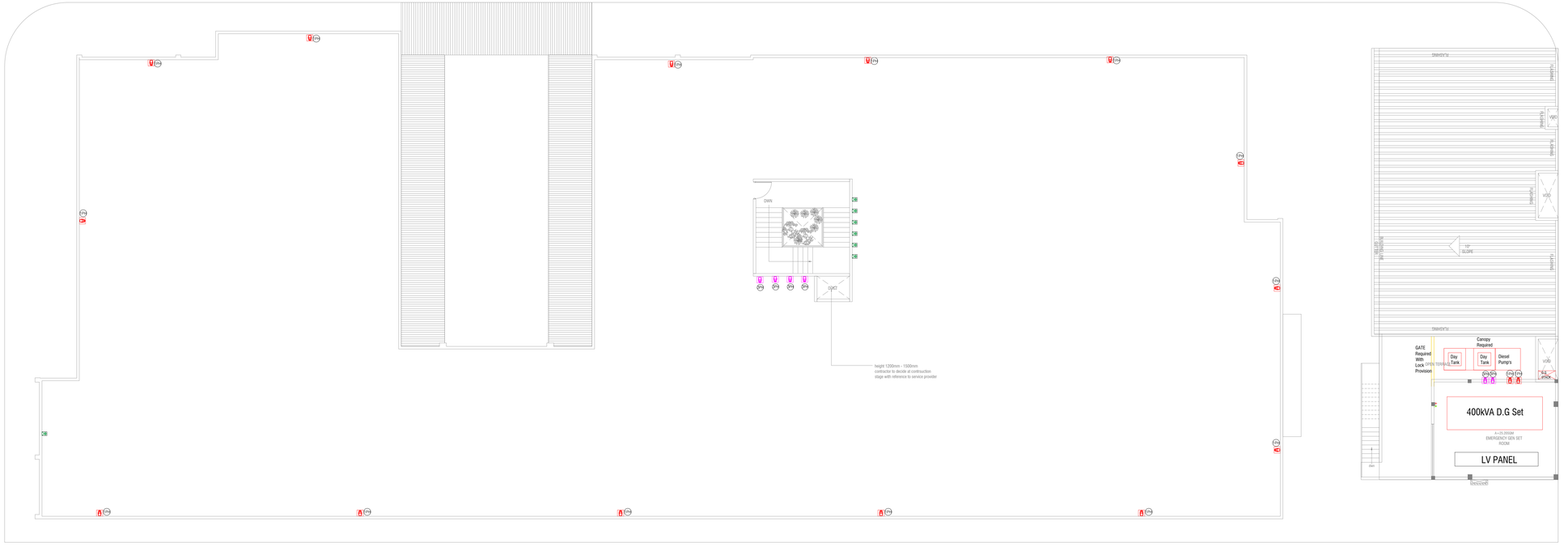

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TERRACE FLOOR POWER LAYOUT
SCALE 1:100
0 0.5 1 2 3 4 5

Rt. Hon. Dr. Ruhakana Rugunda
Chancellor, Ministry of Health

No	By	Date
1		21.10.2022
2		
3		
4		
5		

Architect: Yoon Lee & Partners (Kampala)
Structural Engineer: Yoon Lee & Partners (Kampala)
Mechanical & Electrical Engineer: Yoon Lee & Partners (Kampala)

RIYAN PRIVATE LIMITED
A : PLOT 1 - 3 KAMPALA ROAD, P.O. BOX 7212, KAMPALA, UGANDA
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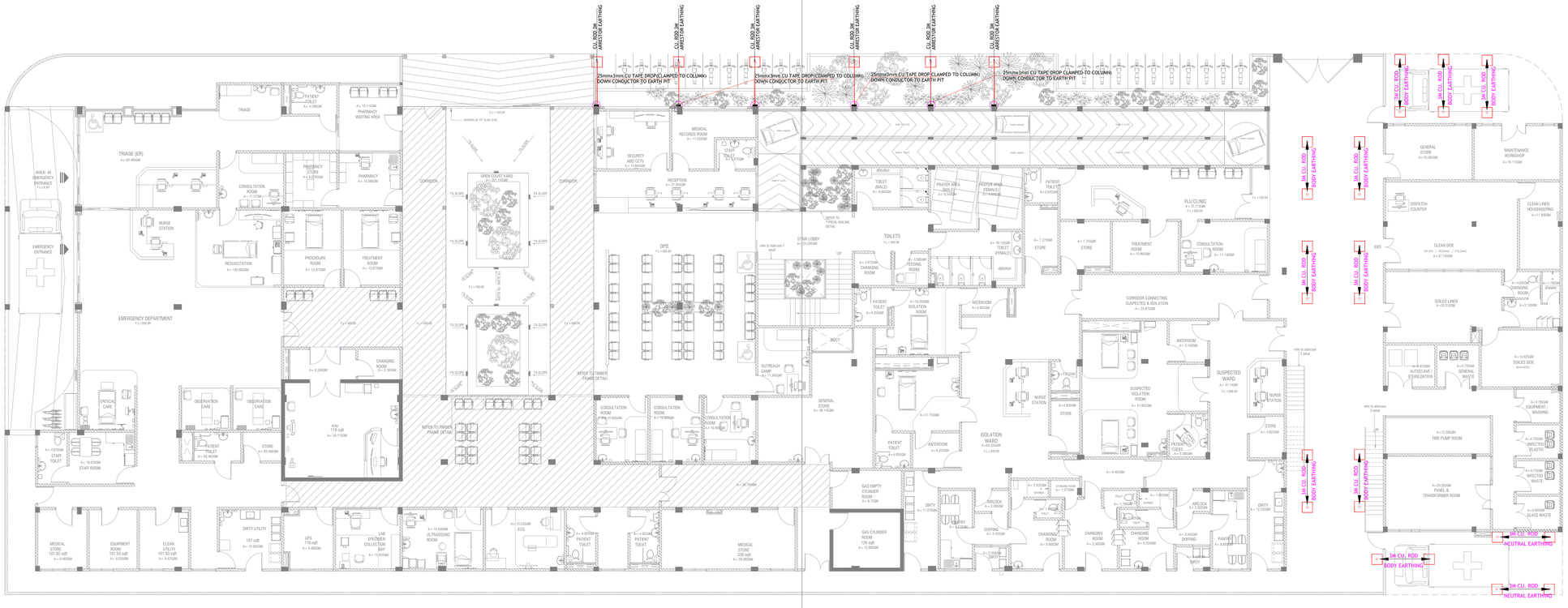
Title: POWER LAYOUT
TERRACE FLOOR PLAN

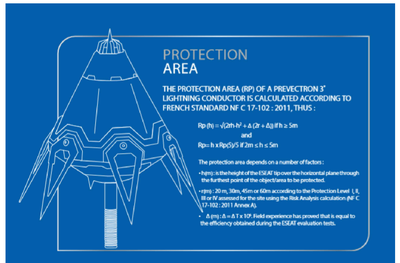
Page: EP-03 /03



GROUND FLOOR LIGHTNING PROTECTION SYSTEM LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5



PROTECTION AREA

THE PROTECTION AREA (RP) OF A PREVECTRON 3' LIGHTNING CONDUCTOR IS CALCULATED ACCORDING TO FRENCH STANDARD NF C 17-102 : 2011, THUS :

$Rp(h) = \sqrt{(2rh - h^2 + \Delta(2r + \Delta))}$ if $h \geq 5m$

and

$Rp = h \times Rp(5)/5$ if $2m \leq h \leq 5m$

The protection area depends on a number of factors :

- h(m) : is the height of the ESEAT tip over the horizontal plane through the furthest point of the object/area to be protected.
- r(m) : 20 m, 30m, 45m or 60m according to the Protection Level I, II, III or IV assessed for the site using the Risk Analysis calculation (NF C 17-102 : 2011 Annex A).
- Δ (m) : $\Delta = \Delta T \times 10^6$. Field experience has proved that it is equal to the efficiency obtained during the ESEAT evaluation tests.

PROTECTION RADIUS

PROTECTION LEVEL I : r = 20M

H (M)	2	3	4	5	10
S 60	31	47	63	79	79
S 50	27	41	55	68	69
S 40	23	35	46	58	59
TS 25	17	24	34	42	44
TS 10	10	15	21	26	28

PROTECTION LEVEL II : r = 30 M

H (M)	2	3	4	5	10
S 60	34	52	68	86	88
S 50	30	45	60	76	77
S 40	26	39	52	65	67
TS 25	19	29	39	49	51
TS 10	12	19	25	31	34

PROTECTION LEVEL III : r = 45 M

H (M)	2	3	4	5	10
S 60	39	58	78	97	99
S 50	34	52	69	86	88
S 40	30	45	60	75	77
TS 25	23	34	46	57	61
TS 10	15	22	30	38	42

PROTECTION LEVEL IV : r = 60 M

H (M)	2	3	4	5	10
S 60	43	64	85	107	109
S 50	38	57	76	95	98
S 40	33	50	67	84	87
TS 25	26	39	52	65	69
TS 10	17	26	34	43	49

ADVANCED TRIGGERING		S range	TS range
	▶ ΔT	60µs 50µs 40µs	25µs 10µs
DIMENSIONS	▶ Height	365 mm	320 mm
	▶ Diameter (body)	200 mm	140 mm
	▶ Diameter (Maxi)	317 mm	261 mm
	▶ Diameter (rod)	20 mm	20 mm
WEIGHT	▶ Kg	3,0kg 3,2kg 3,0kg	2,0kg 1,8kg

CONNECTION : M20

LPS - LEGEND

- AIR - TERMINAL
- EARTH PIT
- TEST LINK WITH COUNTER
- COPPER CONDUCTOR
- AIR TERMINALS MOUNTING STAND

61, chemin des Ponchis - 74300 Thyez - France
Tel : (33) 27 944 052 - Fax : (33) 27 944 053 - e-mail : contact@indelec.com

Rungurdhoo Health Center
Gaibandha, Ministry of Health

Architect: Mahbubur Rahman Shamol
Engineer: Mahbubur Rahman Shamol
Drawn By: Mahbubur Rahman Shamol
Date: 21.11.2022

No	By	Date
1		
2		
3		

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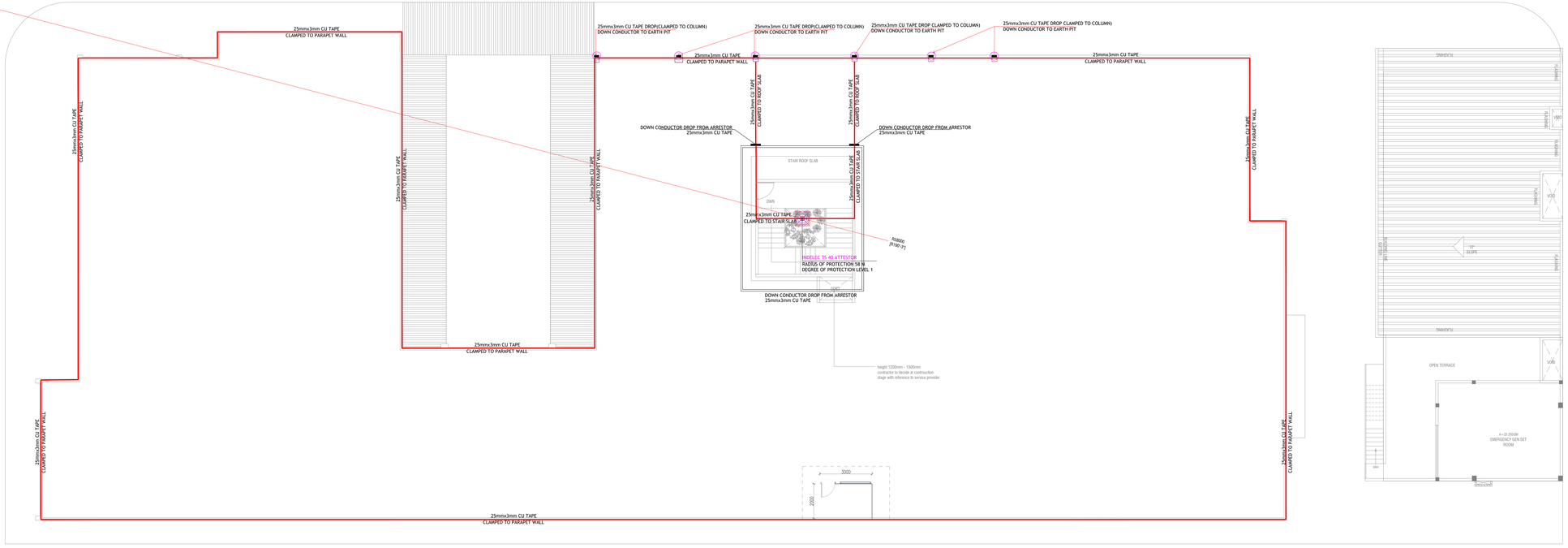
RYAN PRIVATE LIMITED

Title: LP LAYOUT

Page: LP-01 /02



TERRACE FLOOR LIGHTNING PROTECTION SYSTEM LAYOUT

SCALE 1:100

0 0.5 1 2 3 4 5

R.Ingurazhoo Health Center
Client: Ministry of Health

Drawn by: Engineer Yuvraj Prasad
Designed by: Engineer Yuvraj Prasad
Checked by:
Approved by:

Rev no	By	Date
02		21.11.2022
01		

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Title: LP LAYOUT

Page: LP -02 /02

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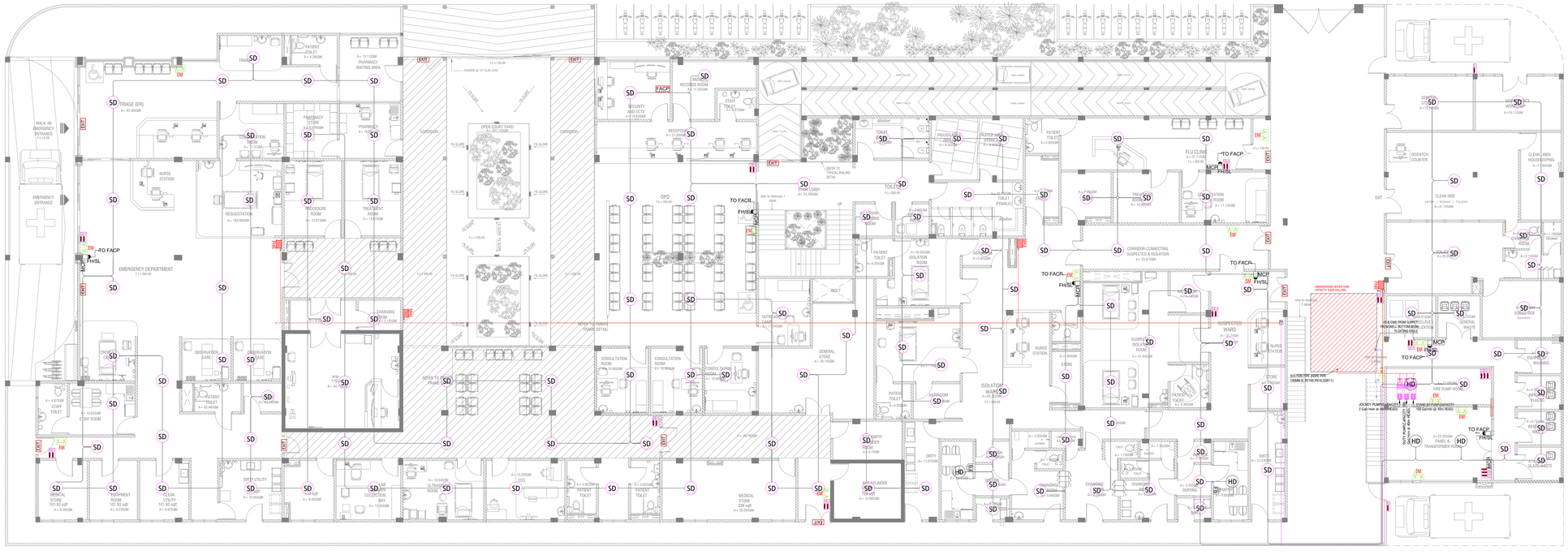

GROUND FLOOR FDP LAYOUT

SCALE 1:150

1 0.5 0 1 2 3 4 5

LEGEND : FDP SYSTEM		
1	SMOKE DETECTOR - ADDRESSABLE/ANALOG	SD
2	HEAT DETECTOR - ADRRESSABLE/ANALOG	HD
3	FIRE ALARM CONTROL PANEL	FACP
4	FIRE MANUAL CALL POINT	MCP
5	FIRE ALARM SOUNDER WITH STROBE LIGHT 95DB	FHSL
6	FIRE RESISTANT CABLE 1.5MM² X 2 CORE	
7	FIRE BLANKET	FB
8	FIRE EXTINGUISHERS - 9 LTRS H2O & 2KG Co2 FIRE EXTINGUISHERS - 50KG TROLLEY DCP & 2KG DCP	
9	FIRE HOSE REEL W/ 25mmø HOSE & 30 METERS	FHR
10	EMERGENCY LIGHT	EM
11	EXIT SIGNS LIGHT W/ BACK UP BATTERIES	EXIT
12	MWSC WATER METER	M
13	25 MMø AIR RELEASE VALVE	
14	PVC PIPE - 40MMø CONNECTION TO FILL FIRE TANK	
15	PIPE RISER - GI PIPE 100MMø, SCHEDULE 40	
16	PIPE RISER - GI PIPE 25MMø, SCHEDULE 40	
17	PIPE RISER - GI PIPE 50MMø, SCHEDULE 40	
18	PIPE RISER - GI PIPE 25MMø, SCHEDULE 40	
19	PIPE HDPE 100MMø, PE100, PN16,SDR11	
20	FIRE PUMP SYSTEM CONSIST OF ELECTRICAL DUTY PUMP & DIESEL STAND BY PUMP - PUMPS CAPACITY IS 100 GPM @ 40M HEAD - JOCKEY PUMPS IS 3 GPM @ 40m HEAD	
21	FIRE RATED DOOR - 90 MINS.	

Ringaradhoo Health Center
Gaafu Alifu, Ministry of Health

Architect: Mariyam Leeza Shareef
Drawn By: Mariyam Leeza Shareef
Checked By:

No. | By | Date
01 | | 21.10.2021

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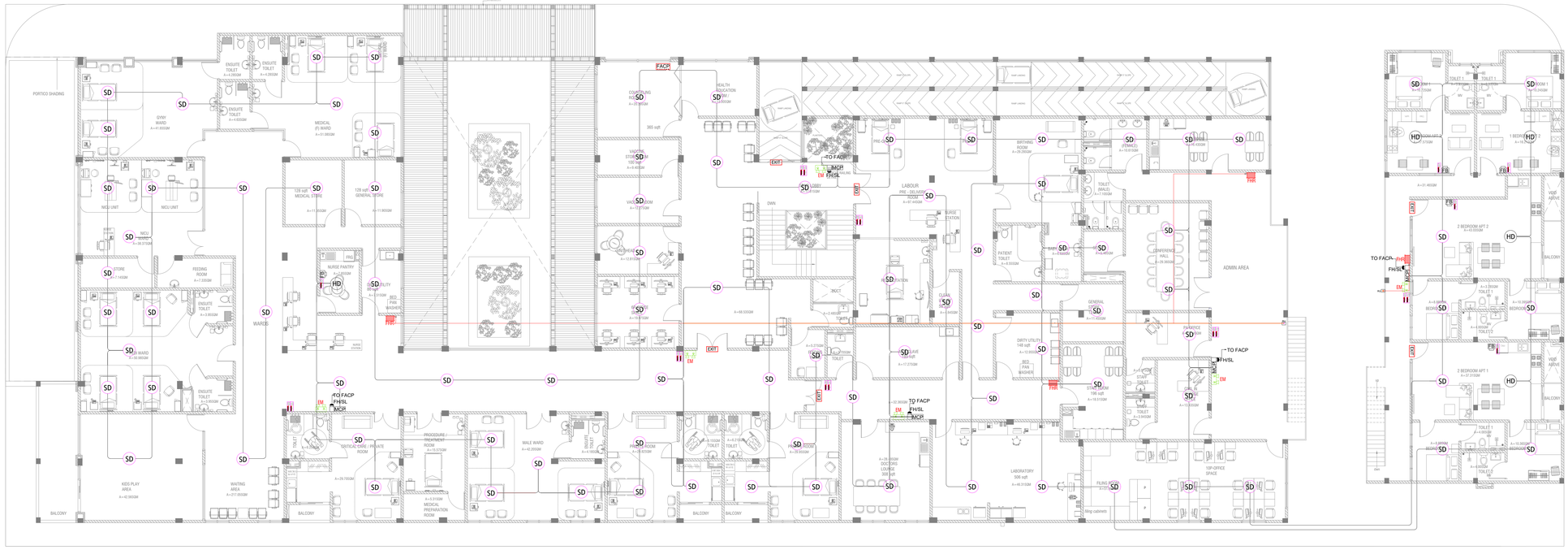
Title: FDP LAYOUT
GROUND FLOOR PLAN

Page: FDP-01 /03


PORTICO SHADING
GYNY WARD
MEDICAL (F) WARD
ENSUITE TOILET
NICU UNIT
MCU UNIT
128 sqft MEDICAL STORE
128 sqft GENERAL STORE
NURSE PANTRY
UTILITY
BED PAN WASHER
STORE
FEEDING ROOM
WARDS
MALE WARD
KIDS PLAY AREA
WAITING AREA
BALCONY
VERTICAL CARE / PRIVATE ROOM
PROCEDURE / TREATMENT ROOM
MEDICAL PREPARATION ROOM
MALE WARD
TOILET
PRIVATE ROOM
COUNSELLING ROOM
HEALTH EDUCATION
WAITING STORE
MASS ROOM
HEAD
CLEANING STORE
LOBBY
DWN
NURSE STATION
LABOUR PRE - DELIVERY ROOM
DNCC
CLEAN UTILITY
SLAVE
DOCTORS LOUNGE
TOILET (MALE)
BIRTHING ROOM
TOILET (FEMALE)
PATIENT TOILET
CONFERENCE HALL
ADMIN AREA
GENERAL STORE
DIRTY UTILITY
BED PAN WASHER
STAFF TOILET
STAFF ROOM
LABORATORY
TOP OFFICE SPACE
FILING ROOM
Wrap cabinets
TO FACP
FH/SL
MCP
EM
EXIT
LIFT
LIFT LOBBY
FHR
FIRE
LIFT 1
LIFT 2
LIFT 3
LIFT 4
LIFT 5
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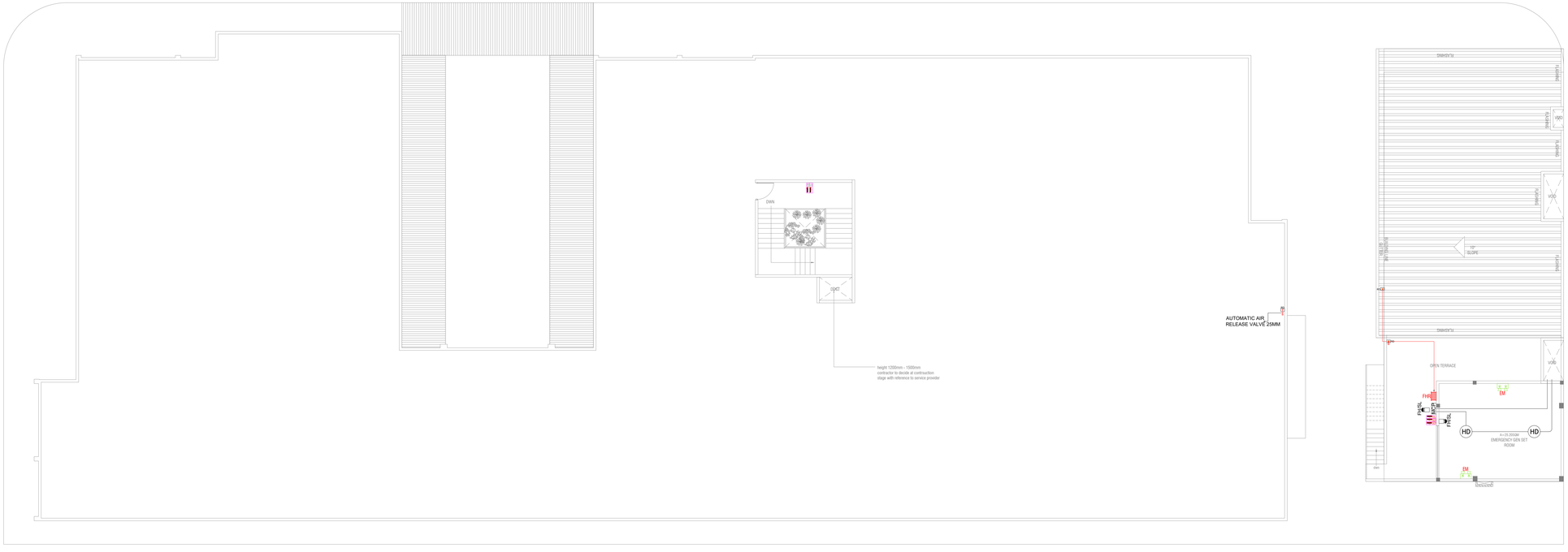

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21	FIRE RATED DOOR - 90 MINS.	

TERRACE FLOOR FDP LAYOUT

SCALE 1:100

1 0.5 1 2 3 4 5

Ringarathoo Health Center
For: Ministry of Health

Architect: Yasmin Lamu Sayed
Drawn By: Yasmin Hamis Sayed
Date: 21.10.2022

No	By	Date
1		
2		
3		

RIYAN PRIVATE LIMITED

Title: FDP LAYOUT
TERRACE FLOOR PLAN

Page: FDP-03 /03

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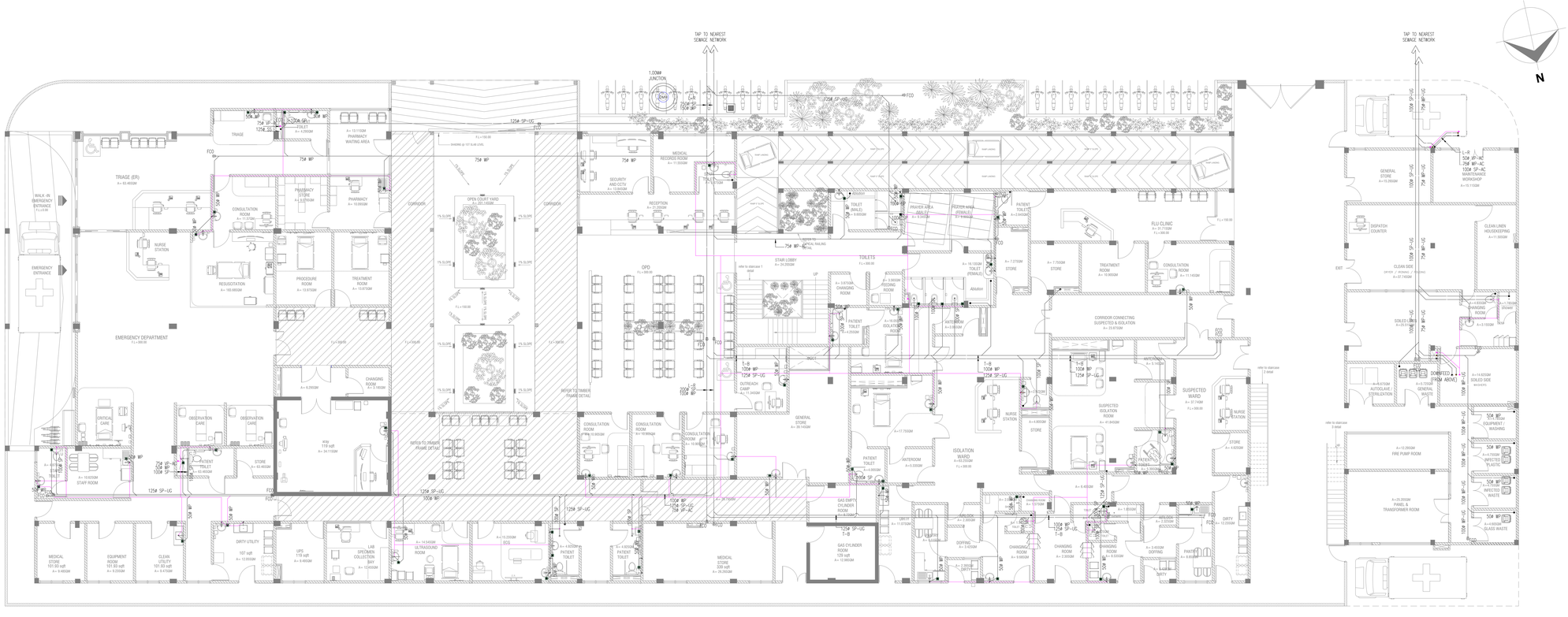

GROUND FLOOR DR PLAN

SCALE 1:100

0 0.5 1 2 3 4 5

LEGEND:

WATER DISTRIBUTION SYSTEM

	CWL	COLD WATER LINE
	HWL	HOT WATER LINE
	CWR/CWDF	COLD WATER RISER/DOWNFEED
	GV/DV	GATE VALVE / DRAIN VALVE / ISOLATION VALVE
	CV	CHECK VALVE
	HB	HOSE BIBB
	WM	WATER METER

WASTE, DRAINAGE, SEWER & VENT SYSTEM

	SP	SEWER PIPE
	WP	WASTE PIPE
	VP	VENT PIPE
	RWP	RAINWATER PIPE
	SS/VS/WS	SOIL/VENT /WASTE STACK
C+D	VSTR	VENT STACK THRU ROOF
	FCO/GCO	FLOOR/GROUND CLEANOUT
FCO WCO	CCO/WCO	CEILING/WALL CLEANOUT
	FD	FLOOR DRAIN GULLY TRAP
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	SD 90°	SCUPPER DRAIN 90 DEGREE OUTLET
	AD	AREA DRAIN (MIN. 300x300MM)
	L-R	LEFT TO RIGHT
	T-B	TOP TO BOTTOM
	UG/S	UNDERGROUND / UNDERSLAB
	AC	ABOVE CEILING
	RWCP	RAINWATER COLLECTOR PIPE
	OFP / OF	OVERFLOW PIPE / OVERFLOW

GENERAL NOTES:

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Rinigrandhoo Health Center
Gaafaru Atoll, Ministry of Health

Architect: Nasrulla Saeed
Engineer: Ibrahim Saeed
Drawn By: Mariyam Inaisha Shareef
Checked By:

No	By	Date
01		21.11.2022

RIYAN PRIVATE LIMITED

H. HIBISCUS, 7 - HEGHTS
Tel: (960) 3345678, 3345679
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Website: www.riyan.com.mv

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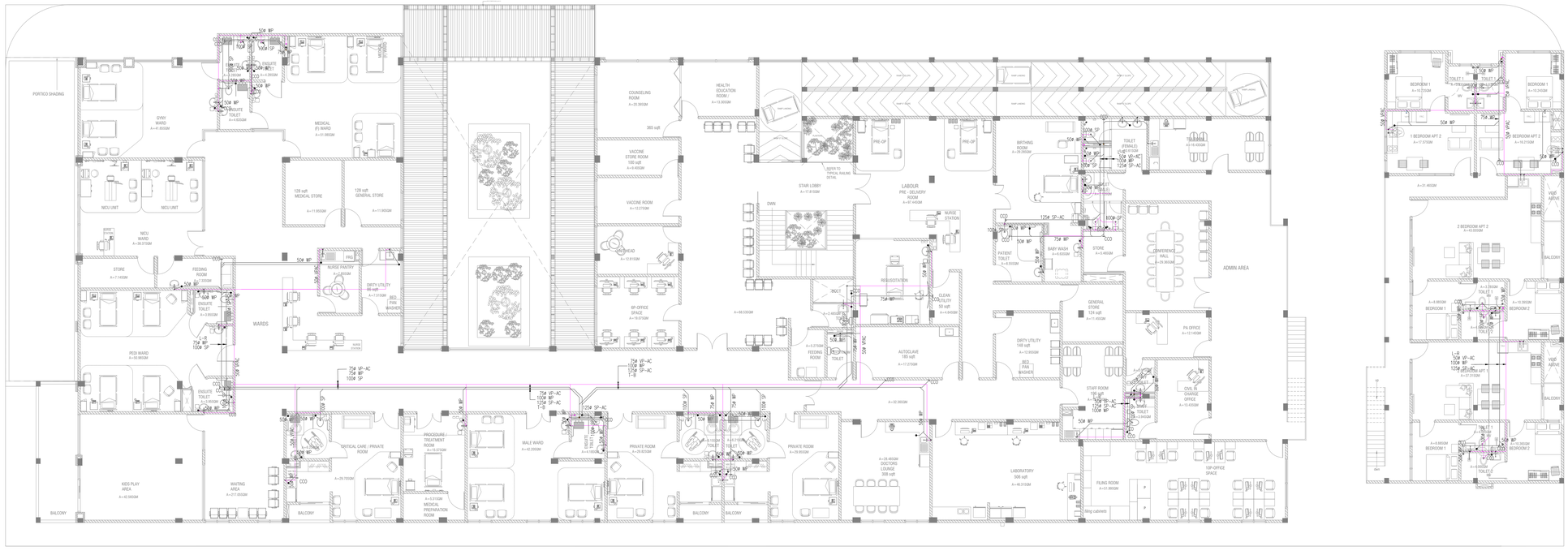
Title: DR LAYOUT
GROUND FLOOR PLAN

Page: DR-01.02



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FIRST FLOOR DR PLAN

SCALE 1:100

0 .5 1 2 3 4 5

Rinigraidhoo Health Center
Gaafaru, Ministry of Health

Architect: Yoosuf Ismail Saeed
Engineer:
Drawn By: Mariyam Inasha Shareef
Checked By:

No	By	Date
01		21.10.2022

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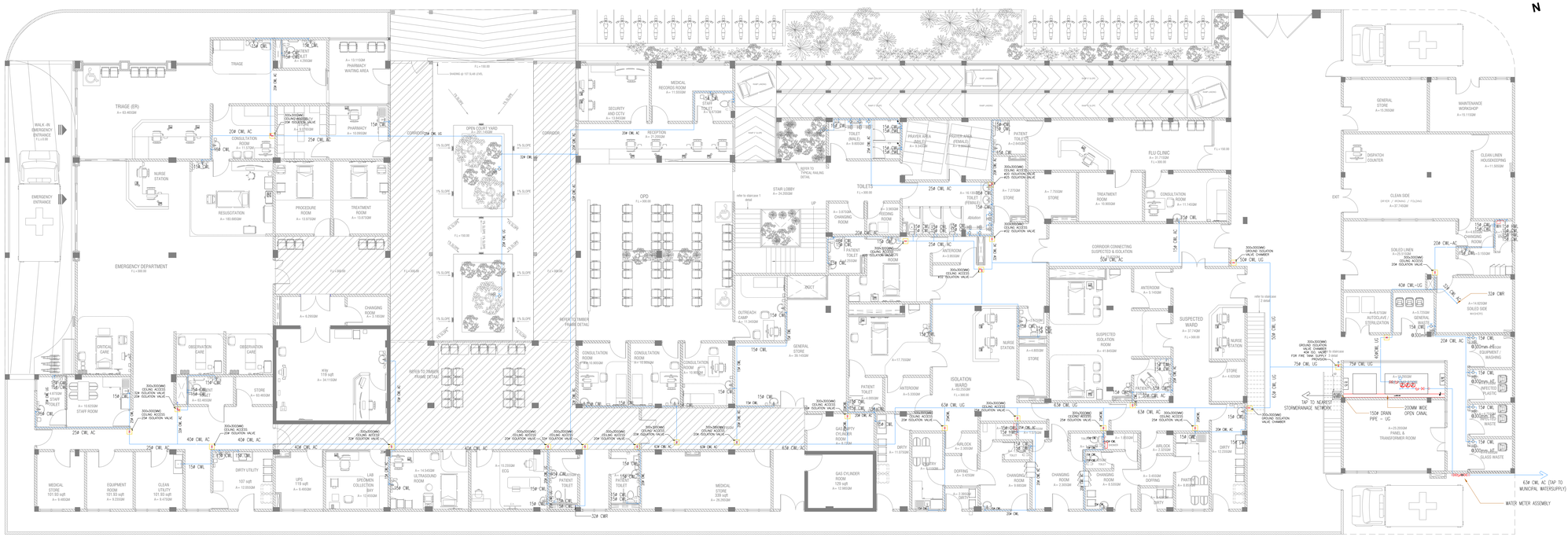
Title: DR LAYOUT
FIRST FLOOR PLAN

Page: DR-02 /02



GROUND FLOOR PL PLAN

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Rinigaadhoo Health Center
Gaafu Alifu, Ministry of Health

Architect: Mariyam Lamya Shareef
Engineer: Ahmed Shareef
Drawn By: Mariyam Hamna Shareef

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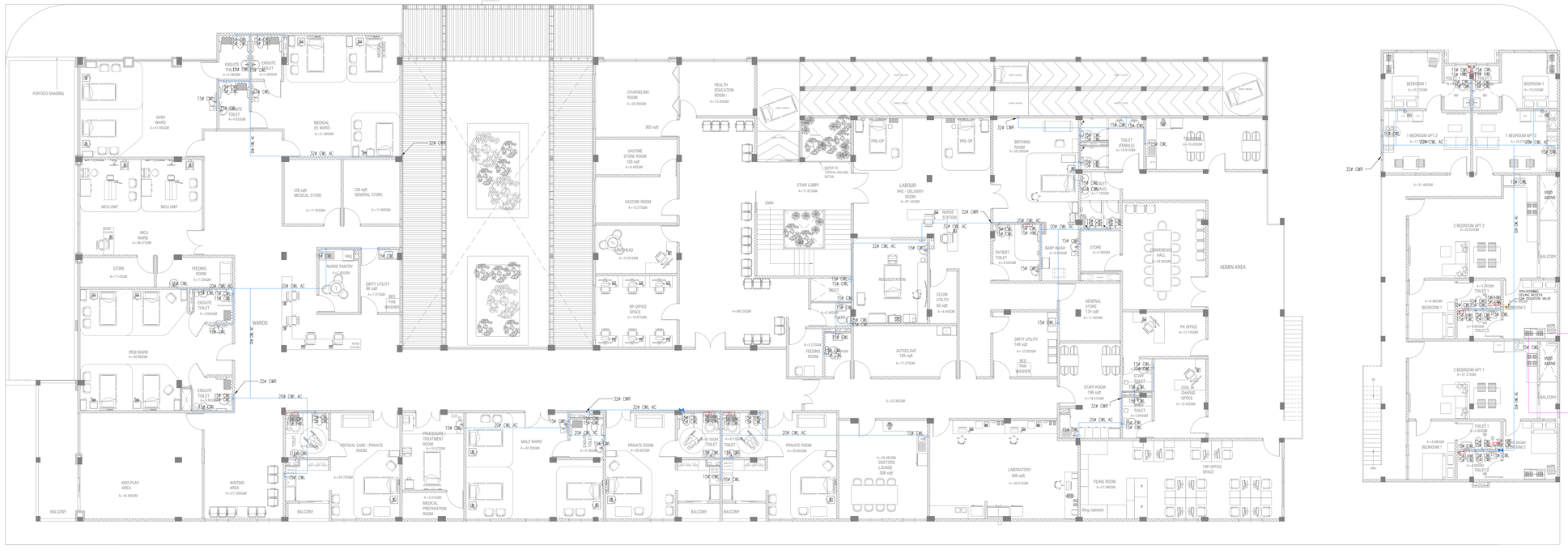
Title: PL LAYOUT
GROUND FLOOR PLAN

Page: PL-01 /02


PORTICO SHADING
GYNY WARD A=41.850SM
ENSUITE TOILET A=4.050SM
MEDICAL (F) WARD A=31.080SM
NICU UNIT
NICU UNIT
NICU WARD A=38.970SM
128 sqft MEDICAL STORE A=11.900SM
128 sqft GENERAL STORE A=11.900SM
STORE A=7.140SM
FEEDING ROOM A=7.000SM
ENSUITE TOILET A=4.050SM
NURSE PANTRY A=2.800SM
DIRTY UTILITY 95 sqft A=3.910SM
BED PAN WASHER
WARDS
PEDI WARD A=30.960SM
ENSUITE TOILET A=4.050SM
KIDS PLAY AREA A=42.560SM
WAITING AREA A=77.850SM
BALCONY
32# CWR
20# CWL AC
15# CWL
15# CWL AC
COUNSELING ROOM 100 sqft A=29.995SM
VACCINE STORE ROOM 100 sqft A=9.400SM
VACCINE ROOM A=13.070SM
MO HEAD A=12.810SM
6P-OFFICE SPACE A=19.870SM
HEALTH EDUCATION ROOM I A=13.305SM
REFER TO STRUCTURAL RAILING DETAIL
STAIR LOBBY A=17.810SM
DWN
A=68.330SM
LABOUR PRE - DELIVERY ROOM A=97.440SM
NURSE STATION
RESUSCITATION
CLEAN UTILITY 50 sqft A=4.640SM
FEEDING ROOM
AUTOCLAVE 185 sqft A=17.270SM
A=32.360SM
PRE-OP
PRE-OP
BIRTHING ROOM A=29.050SM
TOILET (FEMALE) A=9.810SM
A=16.450SM
PATIENT TOILET A=4.650SM
BABY WASH A=4.650SM
STORE A=5.460SM
CONFERENCE HALL A=29.360SM
ADMIN AREA
GENERAL STORE 124 sqft A=11.400SM
DIRTY UTILITY 148 sqft A=12.950SM
BED PAN WASHER
PA OFFICE A=12.140SM
CIVIL SURGEON OFFICE A=13.400SM
STAFF ROOM 156 sqft A=19.510SM
TOILET A=3.640SM
TOILET A=3.640SM
10P-OFFICE SPACE
LABORATORY 506 sqft A=46.810SM
FILING ROOM A=31.960SM
filing cabinets
MALE WARD A=42.260SM
PROCEDURE TREATMENT ROOM A=15.070SM
MEDICAL PREPARATION ROOM A=5.510SM
CRITICAL CARE / PRIVATE ROOM A=29.700SM
PRIVATE ROOM A=29.820SM
PRIVATE ROOM A=29.950SM
A=28.480SM DOCTORS LOUNGE 308 sqft
BALCONY
BALCONY
BALCONY
BEDROOM 1 A=10.725SM
BEDROOM 1 A=10.240SM
1 BEDROOM APT 2 A=31.460SM
1 BEDROOM APT 2 A=33.600SM
2 BEDROOM APT 2 A=45.600SM
2 BEDROOM APT 1 A=57.315SM
BEDROOM 1
BEDROOM 2
TOILET 1
TOILET 2
VOID ABOVE
BALCONY
32# CWR
15# CWL
15# CWL AC
20# CWL AC
15# CWL HW
15# CWL WM
15# CWL WC
15# CWL SHU
15# CWL SHU AC
15# CWL WM AC
15# CWL WC AC
15# CWL HW AC
32# CWR AC
20# CWR AC
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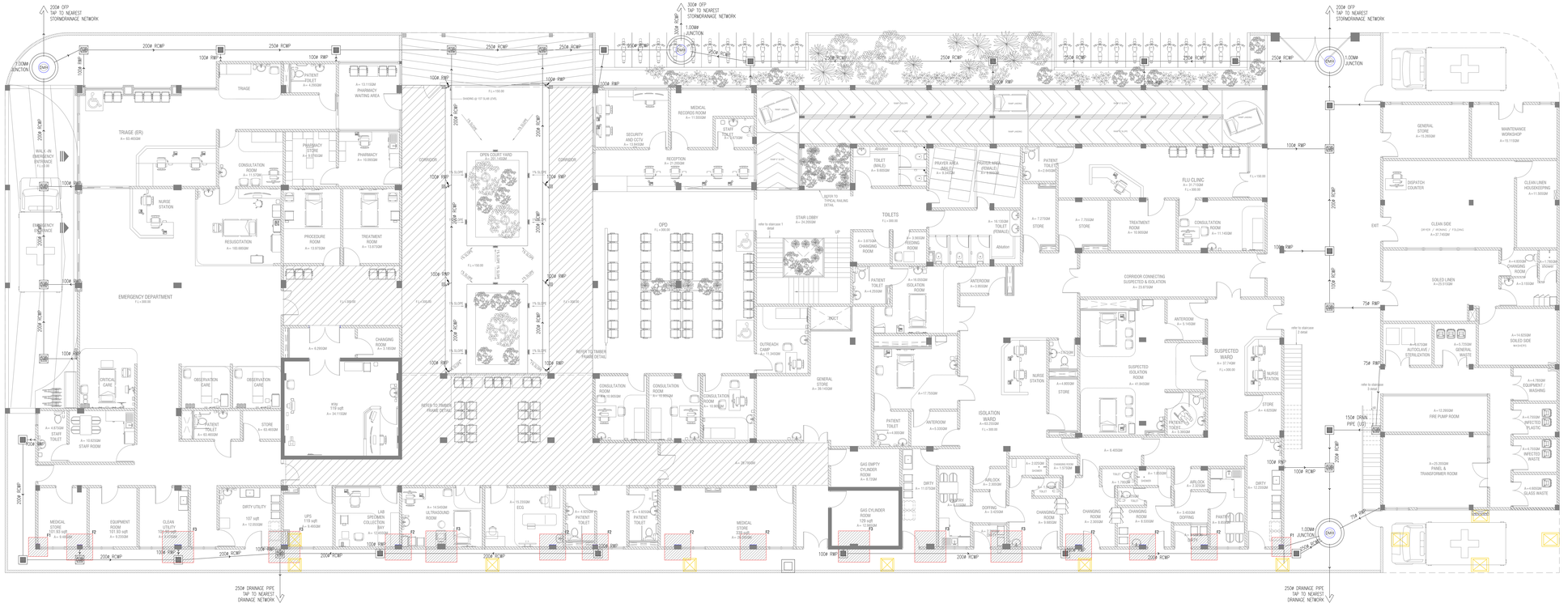

GROUND FLOOR ST PLAN

SCALE 1:100

0 1/2 1 2 3 4 5

LEGEND:

WATER DISTRIBUTION SYSTEM

CWL	COLD WATER LINE
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Rinigurdhoo Health Center
Gaafaru, Ministry of Health

Architect: Nasrulla Saeed
Structural Engineer: Ahmed Shareef
Client: Ministry of Health
Drawing Title: GROUND FLOOR PLAN

No. | By | Date
1 | | 21.10.2022

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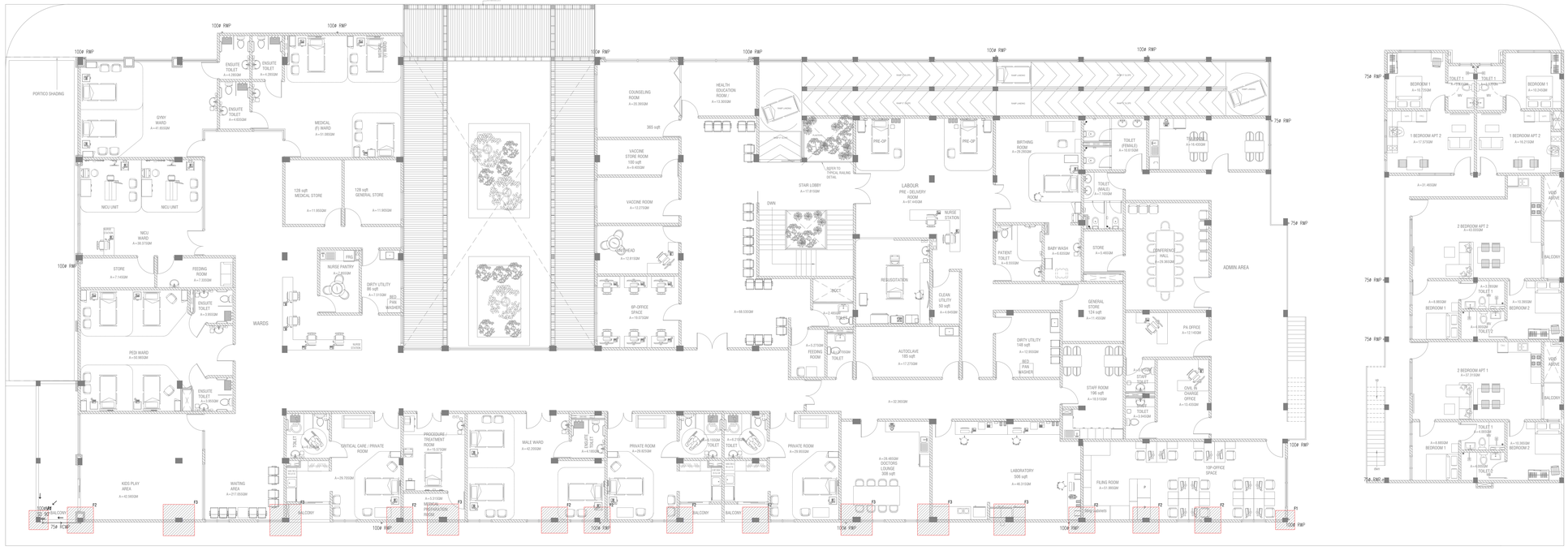
Title: ST LAYOUT
GROUND FLOOR PLAN

Page: 01 /03



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Architect: Mariyam Liyana Shareef
Drawn By: Mariyam Inshira Shareef
Checked By:

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FIRST FLOOR PLAN

Page: ST-02 /03

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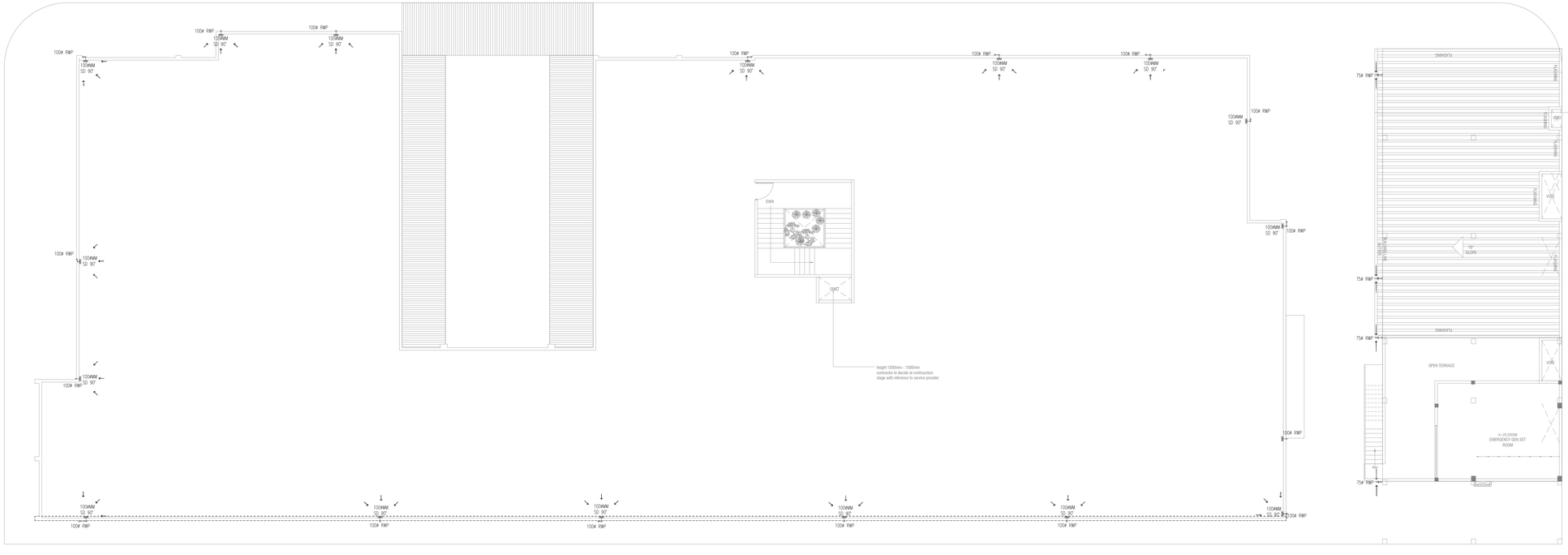
RWCP	RAINWATER COLLECTOR PIPE
OFP / OF	OVERFLOW PIPE / OVERFLOW


100Ø RWP
100MM SD 90°
DWN
CDCT
height 1200mm - 1500mm
contractor to decide at contruction
stage with reference to service provider
75Ø RWP
VSTR
VSTR
VSTR