Funded By

MEDECINS SANS FRONTIERES

OPERATING CENTER GENEVA
CENTERE OPÉRATIONNEL De GENEVE

PROJECT TITLE: ICU Rehabilitation Project in Al-Qaedah Hospital

PROJECT LOCATION: Dhi As-Sufal District, Ibb Governorate, Yemen

Date:

AUGUST, 2026

MEDECINS SANS FRONTIERES – C:\Users\YE120ConstrMgr\appdata\local\temp\AcPublish_23412\YE120_KILO_ICU_Construction Pack.dwg, Title . 10 08 2026 – 11:38, CHLAGER414, YE120ConstrMgr

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MEDECINS SANS FRONTIERES

N°Issue / N°Publication Date

Sheet N° / Feuille N°: Title

Date : 10 / 08 / 2026

Project Title / Titre du Projet :
KILO HOSPITAL
AL QAEDA
YEMEN

Building Name / Nom du Bâtiment :
ICU REHABILITATION

ID Project / Code Projet : YE120_C018

Drawing Title / Titre du Dessin :

Drawn by / Dessiné par :

Verified by / Vérifié par :

Construction Phase :
TECHNICAL DESIGN

File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg

MEDECINS SANS FRONTIERES – C:\Users\YE120ConstrMgr\appdata\local\temp\AcPublish_23412\YE120_KILO_ICU_Construction Pack.dwg, Arch_000 , 10 08 2026 – 11:38, CHLAGER414, YE120ConstrMgr



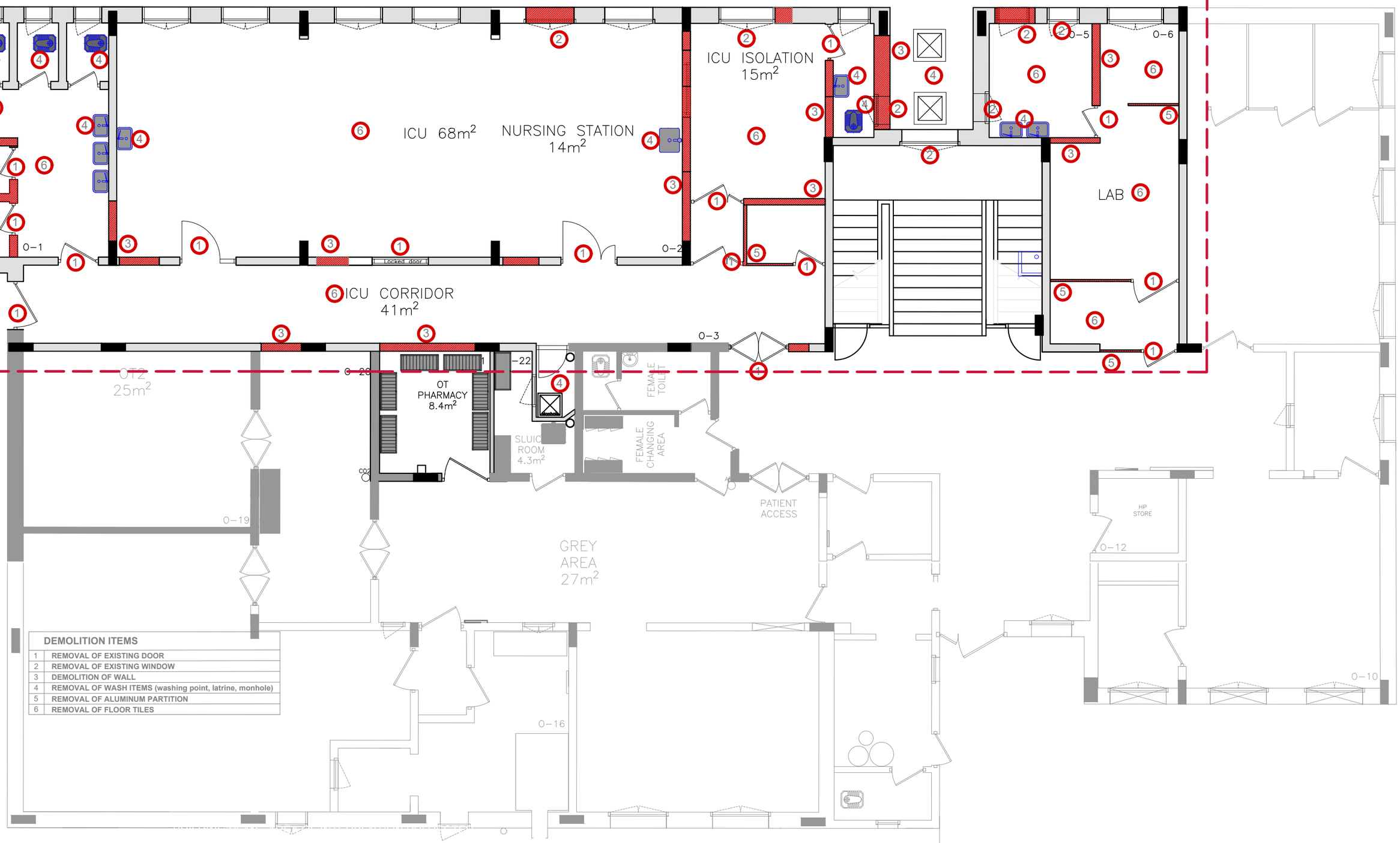
BUILDING PLAN - AREA OF INTERVENTION

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		Date : 10 / 08 / 2026			Drawing Title / Titre du Dessin : BUILDING PLAN Intervention
					File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg

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Construction Phase : TECHNICAL DESIGN



DEMOLITION ITEMS	
1	REMOVAL OF EXISTING DOOR
2	REMOVAL OF EXISTING WINDOW
3	DEMOLITION OF WALL
4	REMOVAL OF WASH ITEMS (washing point, latrine, monhole)
5	REMOVAL OF ALUMINUM PARTITION
6	REMOVAL OF FLOOR TILES

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AL QAEDA
YEMEN

Building Name / Nom du Bâtiment :

ICU REHABILITATION

ID Project / Code Projet : YE120_C018

Drawing Title / Titre du Dessin :

Demolition Plan

Drawn by / Dessiné par :

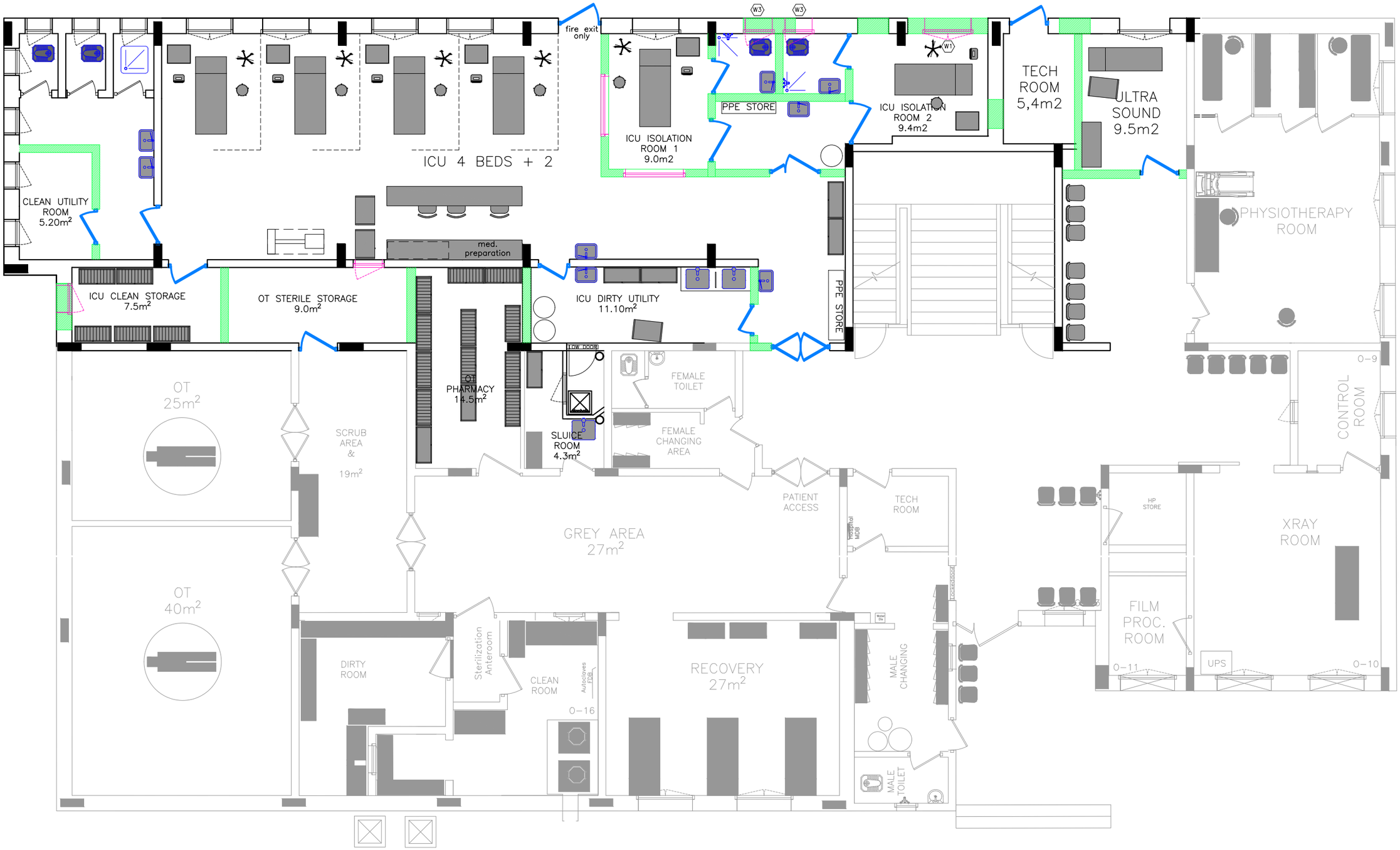
Verified by / Vérifié par :

Construction Phase :

TECHNICAL DESIGN

File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg

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Project Title / Titre du Projet :

KILO HOSPITAL

AL QAEDA
YEMEN

Building Name / Nom du Bâtiment :

ICU REHABILITATION

ID Project / Code Projet : YE120_C018

Drawing Title / Titre du Dessin :

New Proposed Plan

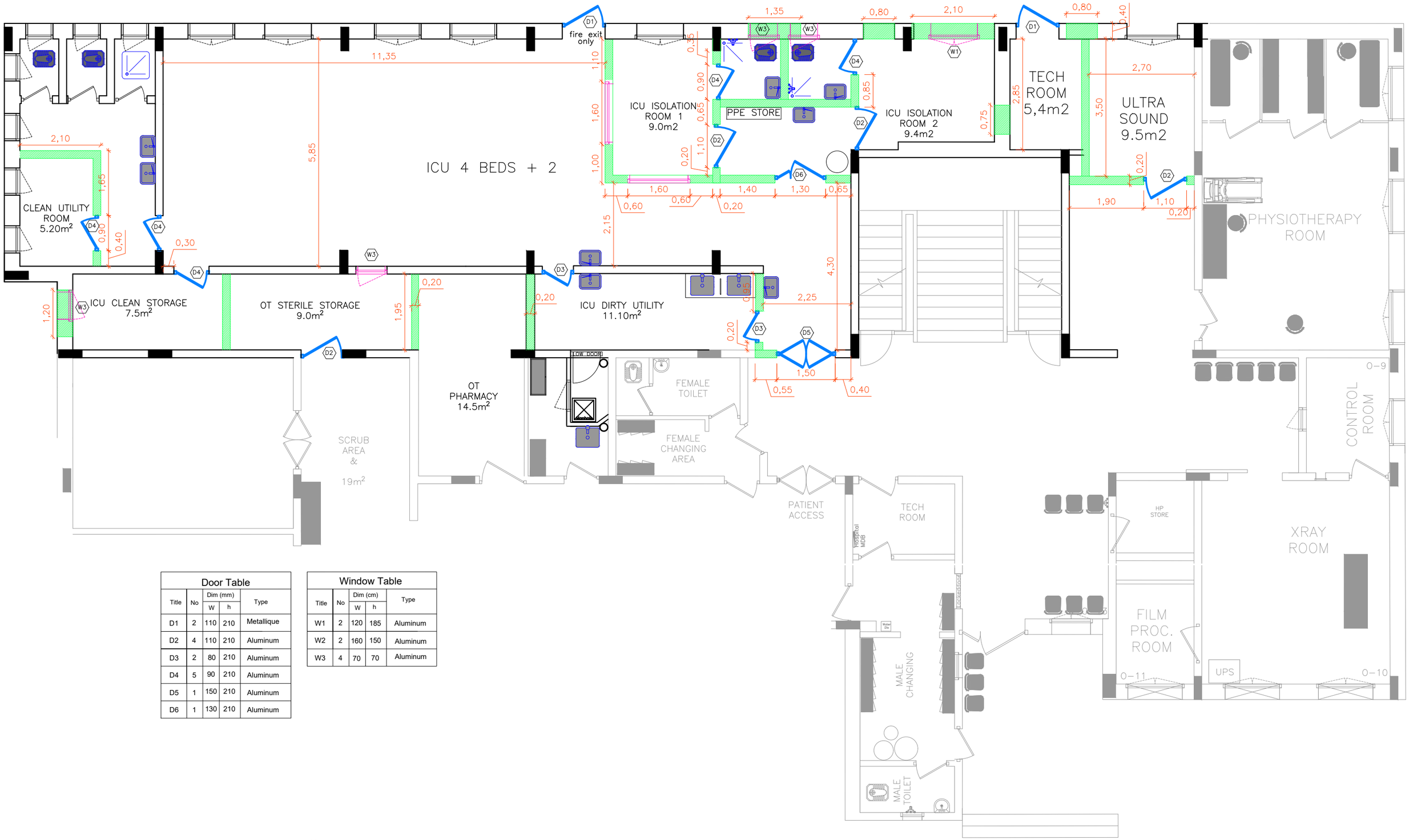
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Construction Phase :

TECHNICAL DESIGN

File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg



Door Table

Title	No	Dim (mm) W	Dim (mm) h	Type
D1	2	110	210	Metallique
D2	4	110	210	Aluminum
D3	2	80	210	Aluminum
D4	5	90	210	Aluminum
D5	1	150	210	Aluminum
D6	1	130	210	Aluminum

Window Table

Title	No	Dim (cm) W	Dim (cm) h	Type
W1	2	120	185	Aluminum
W2	2	160	150	Aluminum
W3	4	70	70	Aluminum

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KILO HOSPITAL

AL QAEDA
YEMEN

Building Name / Nom du Bâtiment :

ICU REHABILITATION

ID Project / Code Projet : YE120_C018

Drawing Title / Titre du Dessin :

REHABILITATION PLAN

Drawn by / Dessiné par :

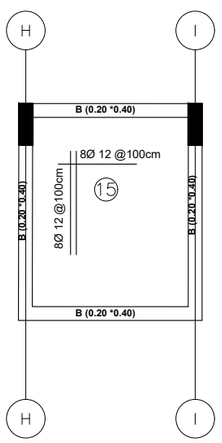
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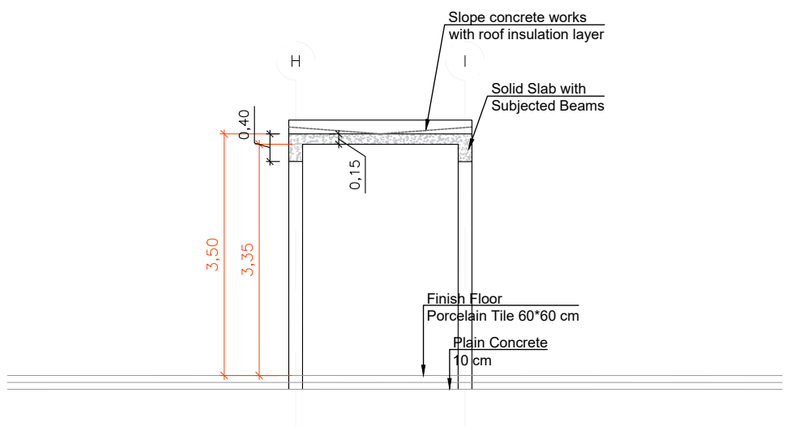
Construction Phase :

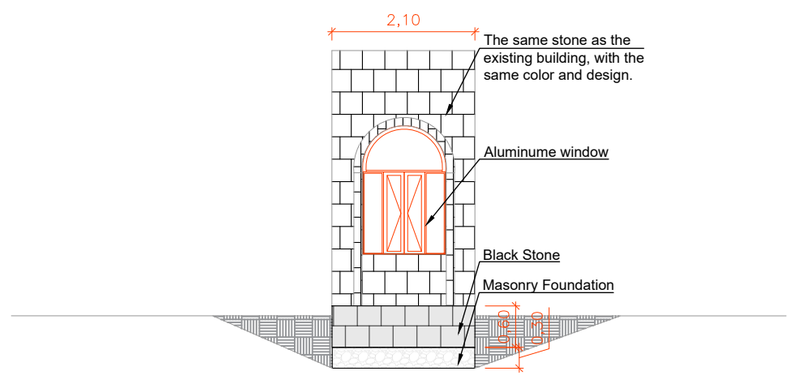
TECHNICAL DESIGN

File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg

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RCC SLAP				
Item	Depth (m)	Reinforcement		
		Upper bar	**Bottom bar**	**Stirrups**
B	0.40	3Ø14	3Ø14	8Ø8/m
S	0.15	8Ø 12 /m	8Ø 12 /m	

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AL QAEDA
YEMEN

Building Name / Nom du Bâtiment :

ICU REHABILITATION

ID Project / Code Projet : YE120_C018

Drawing Title / Titre du Dessin :

STRUCTURE PLAN

Drawn by / Dessiné par :

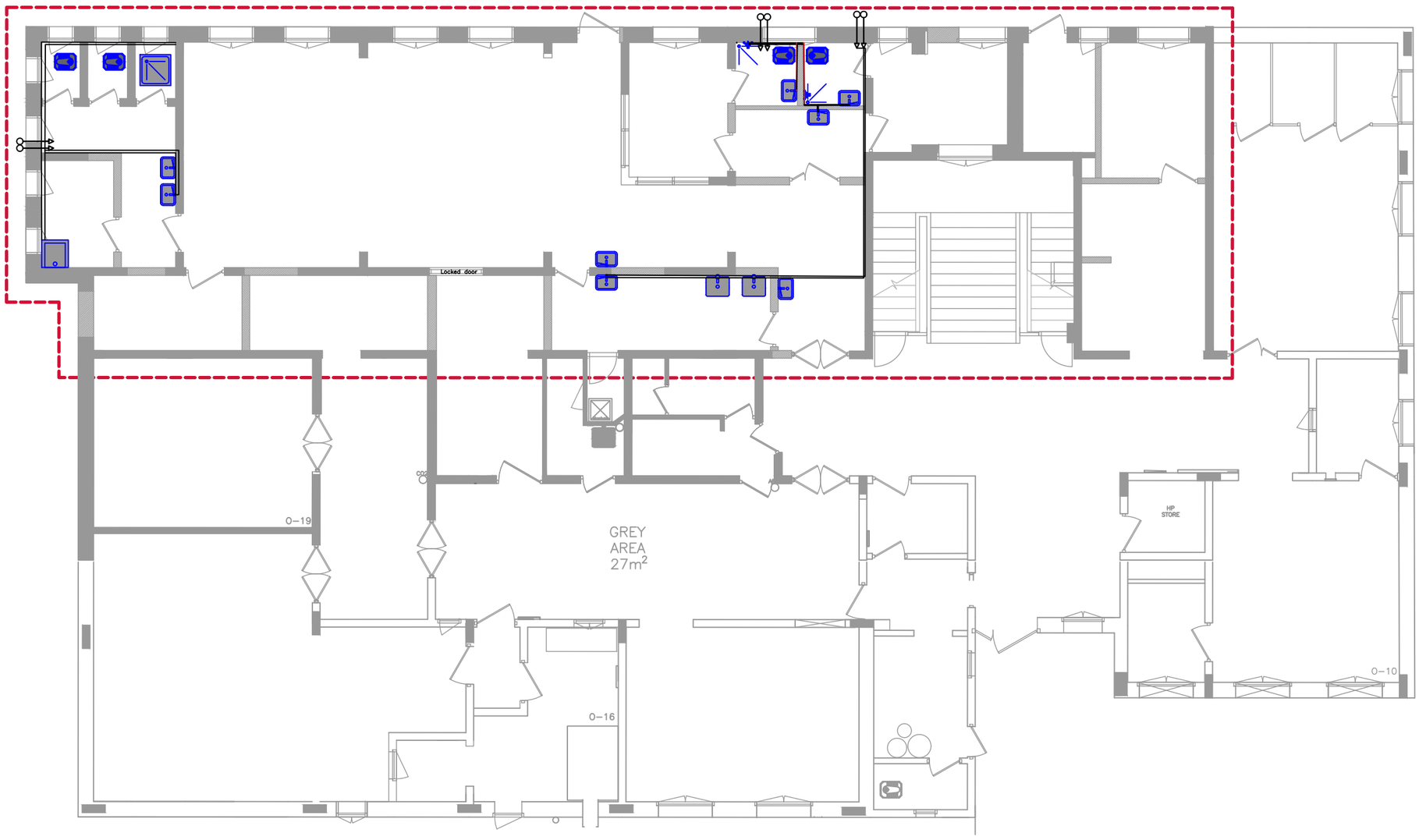
Verified by / Vérifié par :

Construction Phase :

TECHNICAL DESIGN

File name / Nom du Dossier : YE120_KILO_ICU_Construction Pack.dwg

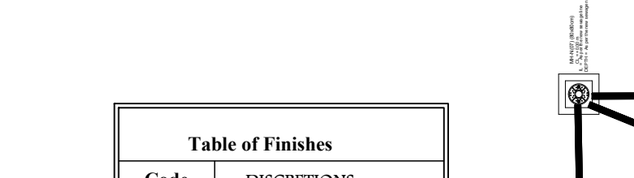
MEDECINS SANS FRONTIERES - C:\Users\YE120ConstrMgr\appdata\local\temp\AcPublish_23412\YE120_KILO_ICU_Construction Pack.dwg, Arch_004 , 10 08 2026 - 11:39, CHLAGER414, YE120ConstrMgr



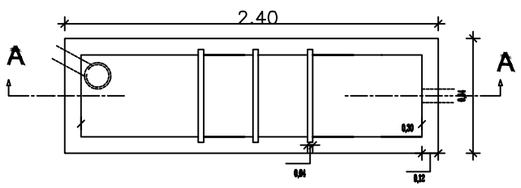
MEDECINS SANS FRONTIERES	PROJECT TITLE : **YE120_KILO Project Yemen Mission**	BUILDING NAME : **Al-Qaidaih General Hospital**	DRAWING TITLE : **Al-Qaidaih General Hospital ICU Rehabilitation Water Supply**	HQ stamp :	Designed By : WatSan Man Mohammed HAMEED	Sheet N° : D-02
			File name : 02072026_YE120_KILO_ICU_Wash Pack .dwg.Mohammed HAMEED.WatSan Manager.dwg		Reviewed By : WatSan Man Mohammed HAMEED	scale : **NTS**
					Validated By : WatSan RTS Alemyibra Yallew	Date : 02 / 07 / 2026

Table of Finishes

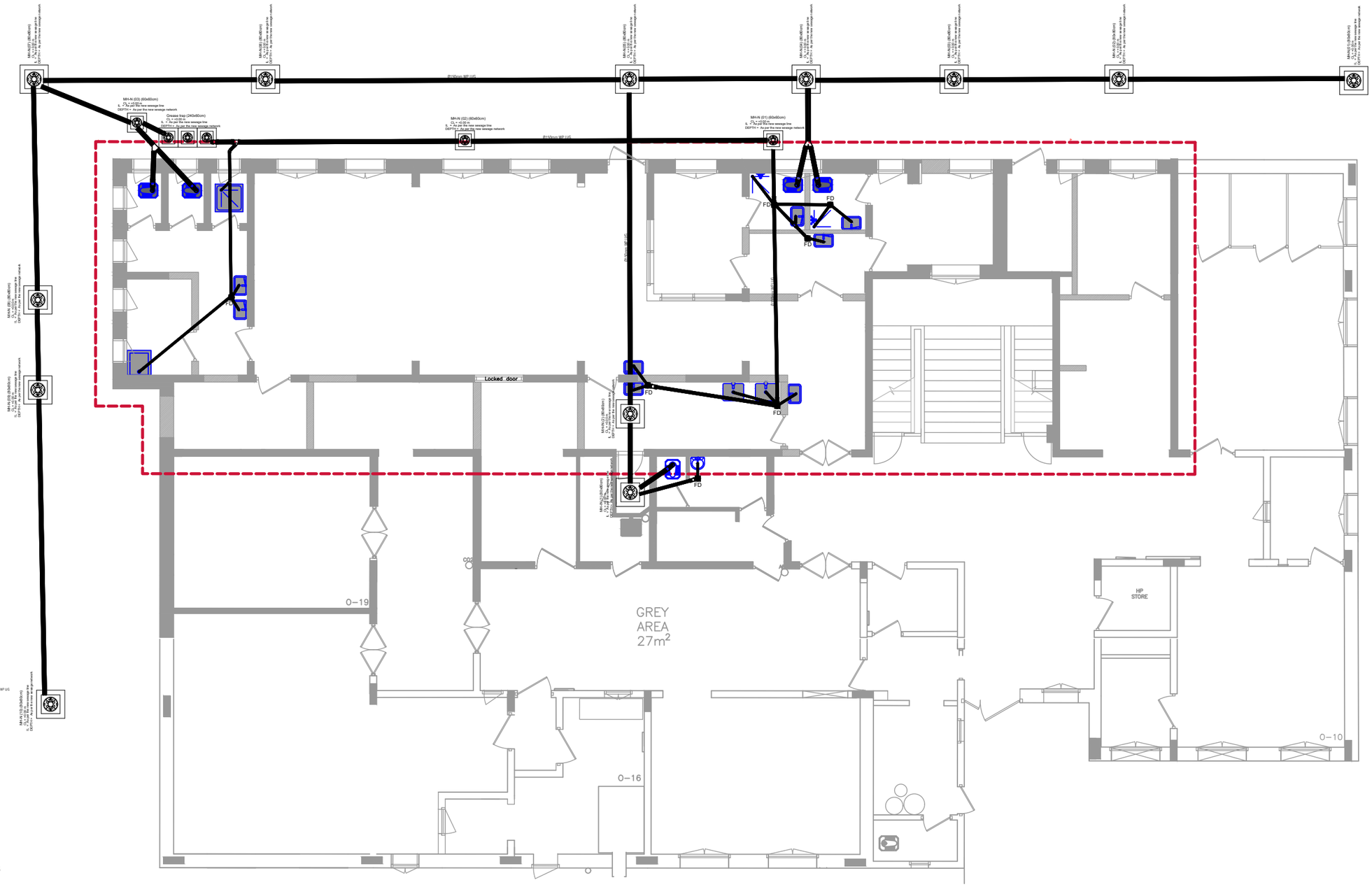
Code	DISCRETIONS
	Eastern water closet (porcelain)
	Shower foot basin 90cm*90cm
	Porcelain wash basin
	INOX SINK Stainless Steel 316
	Floor drain
	Elbow 90 degree PVC, 6 in
	Elbow single Y PVC, 6 in
	Elbow single T PVC, 6 in
	Elbow hobby PVC, 2 in
	Elbow hobby PVC, 4 in
	Elbow hobby PVC, 6 in
	P.V.C. 6''
	P.V.C. 4''
	P.V.C. 2''
	Manholes for gray water MH-(60x60cm)
	Manholes for Black water MH-(80x80cm)
	Grease Trap



Section (A-A)



Grease Trap Details



MEDECINS SANS FRONTIERES	PROJECT TITLE : YE120_KILO Project Yemen Mission	BUILDING NAME : Al-Qaidaih General Hospital	DRAWING TITLE : Al-Qaidaih General Hospital ICU Rehabilitation sewage system File name : 02072026_YE120_KILO_ICU_Wash Pack .dwg.Mohammed HAMEED.WatSan Manager.dwg	HQ stamp :	Designed By : WatSan Man Mohammed HAMEED Reviewed By : WatSan Man Mohammed HAMEED Validated By : WatSan RTS Alemyibra Yallew	Sheet N° : D-01 scale : NTS Date : 02 / 07 / 2026

ELECTRICAL LAYOUT

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ID Project / Code Projet : YE120

Drawing Title / Titre du Dessin :

Drawn by / Dessiné par : RR

Verified by / Vérifié par : Firstname Name

Construction Phase :

File name / Nom du Dossier :

P.No.	SHEET NO.	TITLE
1	E0	COVER
2	E-01	ELECTRICAL LIST OF DRAWINGS
3	E-02	ELECTRICAL GENERAL NOTES
4	E-03	ELECTRICAL GENERAL NOTES
5	E-04	ELECTRICAL GENERAL NOTES
6	E-05	ELECTRICAL LEGEND
7	E-06	ELECTRICAL DETAILS
8	E-07	ELECTRICAL DETAILS
9	E-08	ELECTRICAL DETAILS
10	E-09	ELECTRICAL DETAILS
11	E-10	ELECTRICAL DETAILS
12	E-11	ELECTRICAL DETAILS
13	E-12	LIGHTING SYSTEM
14	E-13	LIGHTING SYSTEM EMERGNCEY
15	E-14	USP POWER SYSTEM
16	E-15	NORMAL POWER SYSTEM

P.No.	SHEET NO.	TITLE
17	E-16	HVAC (AC) POWER SYSTEM AND VENTILATION
18	E-17	SMOKE DETECTORS
19	E-18	EARTHING SYSTEM
20	E-19	MAIN CABLE ROUTING
21	E-20	SING LINE DIAGRAM- ICU-DB SLD
22	E-21	SING LINE DIAGRAM - ICU-UPS-DB SLD

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ID Project / Code Projet : YE120

Drawing Title / Titre du Dessin :

LIST OF DRAWING

Drawn by / Dessiné par : RR

Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :

NOTES:

1. Very important notes ,they must be read completely before starting work
2. The implementation of electrical works must be strictly adhered to according to the plans and specifications prepared by the electrical engineer and the instructions of the supervising engineer.
3. Pipes and tubes must be fixed with special fasteners and cement mortar must be added to them to cover them after installation.
4. The extensions and pipes of the different panels and systems must be independent of each other and in different colors to distinguish between them ,and the neutral line should not be included between the systems.
5. Power socket extensions must be independent of lighting extensions.
6. Pipe extensions must not conflict with any other extensions ,and the necessary precautions must be taken to protect them from moisture or water leakage.
7. The height of the centers of the key boxes above the level of the tiles must be 110 to 130cm , their horizontal distance from the edges of the doors must be 15–20cm , and the height of the sockets for offices must be 40 to 60cm and in residential apartments 80–90cm ,and for kitchens and bathrooms not less be 15–20cm ,and the height of the sockets for offices must be 40to 60cm and in residential apartments 80–90cm , and for kitchens and bathrooms not less than 140 – 120cm.
8. Care must be taken when extending wires and cables and pulling lines so that they are not exposed to any damage ,injury ,or damage to the insulators ,and that pulling should be done after completing the plastering work , and that they should not be strongly tightened ,and that numbering should be done immediately after pulling.
9. The technician must take measurements for the roof foundation work from the edge of the walls ,not the columns ,if the columns are prominent.
10. Cable and wire sections must be approved from the load tables for electrical panels ,each circuit according to what is registered for it.
11. All sockets ,panels ,cable trays and junction boxes must be grounded and connected to the grounding pins in electrical panels.
12. The ends of the pipes must be tightly closed so that the mortar or concrete does not leak into them and hinder pulling the wires later.
13. Pipes must be fixed with tie wires so that they do not bend during casting or rise above the level of the casting on the ceilings.
14. It prevents the orange pipe from breaking at a vertical angle ,and if there is a need to do so ,it is necessary to use a plastic pull box to change the direction.
15. The distance of pulling wires must not exceed 9meters without a pulling section ,box ,or distribution or pulling box.
16. Take care to insert the pipes into the wall for a distance of 2cm so that they can be easily covered with mortar.
17. It is necessary to cover the cans with paper or something so that they are not exposed to the cement mortar when plastering later.
18. The design of electrical circuits should be taken into account in accordance with engineering standards ,such that a maximum of 8to 12points are connected to each circuit , so that the circuit load does not exceed the limit required according to the standard specifications.
19. Telephone ,satellite ,network ,electricity ,lighting ,fire ,and camera pipes are pulled out individually ,using a separate pipe network ,and as far away from the electricity pipes as possible.
20. It is preferable to use white pipes with colored ends for light current wires ,and sockets and lighting should be drawn with black pipes.
21. The end of each wire or end of any circuit must either end in a box ,box ,or partition .It is prohibited to leave the end of the wires and pipes protruding on the walls ,especially at points of external or wall lighting or lighting of mirrors.
22. All electrical sockets ,electrical panels ,ducts ,cable trays ,and any metal parts or electrical devices in the project must be grounded.
23. Leave a suitable length of electrical wires (about 20cm)in the box and another suitable length in the drum.
24. When you want to connect two or more copper wires ,it is necessary to use the plastic suits and prevent the connection to the dishes.
25. It is necessary to pull the wires in an organized and consistent manner according to the colors and distribute them in the panel in the same way with numbering for all electrical circuits and wires.
26. Installation of covers ,switches and lighting shall be done after painting work.
27. Do not use plastic wires to hang devices and lamps ,but rather use iron chains or ties.
28. It is necessary to conduct a full load test and operate the air conditioners ,lighting ,and every electrical device upon completion of the installation.

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NOTES

Drawn by / Dessiné par : RR

Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :

GENERAL NOTES:

01- THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL, STRUCTURAL, MECHANICAL AND INTERIOR DESIGN DRAWINGS AND SPECIFICATIONS.
02- DO NOT SCALE FROM THE ELECTRICAL DRAWING LAYOUTS, WORK ACCORDING TO ARCHITECTURAL AND ELECTRICAL DETAILS.
03- CONDUIT SIZES SHALL BE SELECTED IN ACCORDANCE WITH THE RELEVANT B.S REGULATIONS AND LOCAL REGULATIONS.
04- MINIMUM CONDUIT SIZE TO BEØ20MM.
05- ALL OUTLETS, SWITCHES, BOXES, ISOLATING SWITCHES AND FITTINGS IN PLANT ROOMS AND/OR EXPOSED TO EXTERNAL ENVIRONMENT SHALL BE WEATHER PROOF.
06- ALL SOCKET OUTLETS SHALL BE 3-PIN SWITCHED COMBINED TYPE WITH INDICATION LAMP UNLESS OTHERWISE INDICATED.
07- ALL SOCKET OUTLETS SHALL BE MINIMUM OF 13 AMPERE RATED UNLESS OTHERWISE INDICATED.
08- ALL CONCEALED RISING CONDUITS SHALL RUN IN THE WALLS OR COLUMNS, CONDUITS SHALL NOT RUN IN PLASTER, ALL RECESSED CONDUITS SHALL BE PVC TYPE ALL SURFACE/ EXPOSED CONDUITS SHALL BE GI TYPE.
09- EXACT LOCATION OF ALL MECHANICAL / HVAC EQUIPMENT AND ASSOCIATED DISCONNECTING SWITCHES AND OUTLETS SHALL BE COORDINATED WITH THE MECHANICAL DRAWINGS.
10- CONTRACTOR SHALL ESTABLISH EXACT LOCATION OF LIGHTING FIXTURES, SMOKE DETECTORS, CABLE TRAYS, CABLE ROUTES, CONDUIT ROUTES ...ETC. IN FULL COORDINATION WITH OTHER SERVICES AND TO THE ENGINEER APPROVAL.
11- LOCATION OF EARTH ELECTRODES AND DOWN CONDUCTORS SHALL BE COORDINATED WITH MANHOLES & SERVICES FOR OTHER TRADES.
12- ALL LIGHT FIXTURES SHALL BE SUPPLIED COMPLETE WITH CONTROL GEAR INCLUDING POWER FACTOR CAPACITORS WHERE NECESSARY AND LAMP WHETHER EXPLICITLY MENTIONED OR NOT.
13- LIGHTING FIXTURE IN MECHANICAL ROOMS, SUBSTATION, GENERATOR ROOM ... ETC. THE MINIMUM SIZE ALLOWED BY THE CODES AND MAY BE PURPOSELY OVERSIZED TO CONDUIT ...ETC. AND BE SUSPENDED WHERE REQUIRED.
14- CONDUIT SIZES CALLED OUT ON THE DRAWINGS ARE NOT NECESSARILY BASED ON THE MINIMUM SIZE ALLOWED BY THE CODES AND MAY BE PURPOSELY OVERSIZED TO AVOID EXCESS CONDUIT HEATING AND VOLTAGE DROP.
15- ALL CIRCUITS SHALL INCLUDE AN INSULATED GREEN GROUNDING CONDUCTOR. THIS CONDUCTOR SHALL BE CARRIED IN ALL RACEWAYS INCLUDING THOSE INSTALLED FOR SWITCH LUGS AND SHALL BE CONNECTED TO THE DEVICE, LUMINARIES, SOCKET OUTLET OR EQUIPMENT HOUSING USING A SUITABLE GROUNDING LUG.
16- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL JUNCTION BOXES REQUIRED FOR EQUIPMENT, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS.
17- ALL FLUSH MOUNTED PANELS IN THE PROJECT SHALL HAVE THE REQUIRED NUMBER OF Ø 25MM CONDUITS EXTENDED TO ABOVE AN ACCESSIBLE CEILING FOR FUTURE USE.
18- LIGHT FITTINGS SHALL NOT ACCOMMODATE THE LAMPS MORE THAN THE WATTAGE SHOWN ON THE DRAWINGS OR SCHEDULES.
19- THE CONTRACTOR SHALL CONFIRM EXACT COUNTER HEIGHTS, EQUIPMENT LOCATIONS FOR POWER AND COMMUNICATION DEVICES.
20- ALL PANELS SHALL HAVE TYPED UP CIRCUIT DIRECTORIES REFLECTING THE CIRCUIT ARRANGEMENT AS IT IS ACTUALLY INSTALLED.
21- ALL RECESSED SPEAKERS LUMINARIES IN FIRE RATED CEILING SHALL BE INSTALLED SO AS TO MAINTAIN THE INTEGRITY OF THE FIRE RATING.
22- THE CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER BEFORE MAKING ANY PENETRATIONS THROUGH STRUCTURAL MEMBERS OR FIRE RATED WALL AND SLABS.
23- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND TECHNICAL BROCHURES FOR ALL LUMINARIES, EQUIPMENT AND DEVICES COVERED BY THIS CONTRACT FOR APPROVAL PRIOR TO ORDERING. SHOP DRAWINGS SHALL BEAR THE CONTRACTOR STAMP AND SIGNATURE INDICATING THAT THEY HAVE BEEN CHECKED AND ARE TO THE BEST OF THEIR KNOWLEDGE , IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
24- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR CHEQUERED PLATES AND CABLES AS REQUIRED TO PERFORM THE INSTALLATION AT THE SPECIFIED STANDARDS.
25- ACBS SHALL HAVE A MINIMUM SYMMETRICAL INTERRUPTING CAPACITY OF 44KA FOR 3 SECOND. MCCBS SHALL HAVE THE REQUIRED MINIMUM INTERRUPTING CAPACITY FROM WHICH PANEL IT WAS USE/INSTALL.
26- EARTHING OF ALL EQUIPMENT SHALL BE IN ACCORDANCE WITH THE RELEVANT B.S REQUIREMENTS.
27- CABLE TRAYS SHALL HAVE EARTH CONTINUITY BY 6MM2 COPPER WIRE.
28- ALL EQUIPMENT, WATER COOLERS, CONTROL PANELS AND ISOLATORS SHALL BE CONNECTED TO THE RING EARTH SYSTEM.
29- ALL DUTY AND STANDBY PUMPS SHALL BE INTERLOCKED BETWEEN STARTERS.
30- ALL MINIATURE CIRCUIT BREAKERS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 10KA IN 3 SECONDS.
31- ALL ELCBS SHALL HAVE A MINIMUM INTERRUPTING CAPACITY OF 10KA IN 3 SECONDS.
32- THE SIZE OF ALL THE CABLE TRAYS/TRUNKS TO BE CALCULATED AND COORDINATED WITH ALL THE OTHER TRADES AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ERECTION. THE RESERVE SPARE CAPACITY SHALL NOT BE LESS THAN 25%.
33- THE DISTANCE BETWEEN CABLES SHALL BE 2D,WHERE D IS OVERALL DIAMETER OF LARGER CABLE.
34- ALL ELECTRICAL WORKS AND MATERIALS SHALL BE COMPLYING WITH ELECTRICAL AUTHORITY WIRING REGULATIONS AND LOCAL CODES, CONSTRUCTION SPECIFICATION AND TENDER DOCUMENTS SPECIFICATIONS.
35- ALL PENETRATIONS / OPENING THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED WITH APPROVED FIRE SEALENT MATERIAL.
36- ALL ELECTRICAL INSTALLATIONS IN MECHANICAL & ELECTRICAL PLANT ROOMS SHALL BE CARRIED- OUT USING G.I CONDUITS / SURFACE EXPOSED MOUNTED.
37- THE MOUNTING HEIGHTS OF ALL SWITCHES WILL BE AT 1250MM, SOCKETS WILL BE AT 450MM, AND THE TOP OF DISTRIBUTION PANEL BOARDS WILL BE AT 1800MM.
38- ALL ELECTRICAL WIRING INSTALLATIONS SHALL BE CARRIED-OUT AS PER APPROVED WORK SHOP DRAWINGS AND GENERALLY IN ACCORDANCE TO THE FOLLOWING GUIDELINES; IN AREAS COVERED WITH FALSE CEILING: EXPOSED CONDUITS ABOVE FALSE CEILING CONNECTED TO THE NEAREST TRUNKING OR CABLE TRAYS.
39- IN AREAS NOT COVERED WITH FALSE CEILING: ALL CONDUITS SHALL BE RECESSED IN CONCRETE SLABS. IN TECHNICAL PLANTS: ALL EXPOSED CONDUITS GALVANIZED STEEL. FOR WALL MOUNTED INSTALLATIONS : ALL CONDUITS IN WALLS SHALL BE RECESSED FOR FLOOR BOXES. RECESSED IN GROUND INSTALLATIONS : ALL CONDUITS SHALL BE RECESSED UNDER TILES.

FOR NURSE CALL SYSTEM LAYOUTS

01- USE GI TRUNKING OR PVC / GI 25MM Ø CONDUITS WIRING FROM JUNCTION BOX TO OUTLET POINT.
02- CONTRACTOR TO SHOW ALL CABLE TRAY/TRUNKING ROUTES IN COORDINATION WITH OTHER SERVICES.
03- SPACE 25%CAPACITY SHALL BE CONSIDERED WHILE SIZING THE CABLE TRAY TRUNKING FOR FUTURE USE.
04- COORDINATE WITH MEDICAL CONSULTANT LOADED DRAWINGS FOR EXACT LOCATIONS & HEIGHTS OF ALL SYSTEM'S DEVICES.
05- NURSE CALL SYSTEM CABLES TYPE AND SIZES SHALL BE PROVIDED AS PER THE SYSTEM'S MANUFACTURER RECOMMENDATIONS AND SHALL ACHIEVE THE SPECIFIED SYSTEM TECHNICAL PERFORMANCE.
06- TV SYSTEM SHALL BE CARRIED OUT BY A SPECIALIST SUPPLIER APPROVED BY THE ENGINEER.

FOR POWER SYSTEM LAYOUTS

01- EXACT LOCATION OF OUTLETS, ISOLATORS , DOUBLE POLE SWITCHES, ETC SHALL BE FULLY COORDINATED WITH OTHER SERVICES, MEDICAL CONSULTANT LOADED DRAWINGS & MECHANICAL SERVICES DRAWINGS.
02- CONTRACTOR TO SHOW ALL CABLE TRAY/TRUNKING ROUTES IN COORDINATION WITH OTHER SERVICES.
03- UNLESS OTHERWISE INDICATED, ALL INSTALLATIONS SHALL BE CARRIED -OUT USING RIGID PVC CONDUITS RECESSED IN SLABS AND WALLS.
04- USE GI TRUNKING/ Ø 25MM, PVC / GI CONDUITS WIRING FROM JUNCTION BOX TO OUTLET POINT.
05- 25% SPACE CAPACITY SHALL BE CONSIDERED WHILE SIZING THE CABLE TRAY & TRUNKING FOR FUTURE USE.
06- COORDINATE WITH MEDICAL COSULTANT LOADED DRAWINGS FOR EXACT LOCATIONS & HEIGHTS OF ALL SYSTEM'S DEVICES.
07- ALL SURFACE MOUNTED ELECTRICAL INSTALLATIONS INSIDE THE ELECTRICAL AND MECHANICAL PLANT ROOMS SHALL BE CARRIED OUT USING G.I. CONDUITS.

FIRE ALARM SYSTEM NOTES

01- ALL FIRE DETECTION AND ALARM SYSTEMS INSTALLATIONS SHALL BE CARRIED OUT USING FIRE RATED CABLES.
02- ALL INSTALLATIONS DETAILS SHALL BE IN ACCORDANCE TO THE ELECTRICAL TYPICAL DETAILS.
03- EXACT LOCATIONS OF THE DUCT MOUNTED SMOKE DETECTORS, CONTROL AND INTERFACE MODULES OF THE MECHANICAL EQUIPMENTS SHALL BE COORDINATED WITH THE MECHANICAL DRAWINGS.
04- FIXATION HEIGHT SHALL BE AS FOLLOWS: -
a. FIRE ALARM MANUAL CALL POINTS SHALL BE INSTALLED AT 1250MM F.F.L.
b. INDOOR SIREN SHALL BE INSTALLED AT 2200MM F.F.L.
c. OUTDOOR SIREN SHALL BE INSTALLED AT 3000MM F.F.L.
05- INTERFACE MODULES, FAULT, AND LINE ISOLATORS REQUIRED FOR DETECTION DEVICES ZONES/ LOOPS, AND INDOOR / OUTDOOR SIRENS SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH THE SYSTEM'S MANUFACTURER REQUIREMENTS AT NO EXTRA COST. FAULT ISOLATOR SHALL BE PROVIDED EVERY 20 DEVICES, START AND END OF THE DETECTION LOOP AS PER NFPA & LOCAL CIVIL DEFENSE DEPARTMENT REQUIREMENTS
06- FIRE DETECTION AND ALARM SYSTEMS CABLES SIZE SHALL BE PROVIDED IN ACCORDANCE WITH NFPA72,THE SYSTEM'S MANUFACTURER, AND VOLTAGE DROP CALCULATIONS.
07- IN CASE OF FIRE ACKNOWLEDGE MASSAGE BY THE SPACE / ZONE OR RETURN DUCT MOUNTED DETECTORS, THE INTERFACE MODULE SHALL SHUT DOWN THE AHU SUPPLY FAN.
08- EXACT LOCATIONS OF THE FIRE DETECTION AND ALARM SYSTEM DEVICES SHALL BE COORDINATED WITH THE INTERIOR DESIGN DRAWINGS & REFLECTED CEILING PLANS.
09- CEILING VOIDS SMOKE DETECTORS (ABOVE FALSE CEILING) WITH REMOTE LED INDICATORS (UNDER FALSE CEILING) SHALL BE PROVIDED IN ALL SPACES/CORRIDORS WHERE CEILING VOID HEIGHT EXCEEDS 800MM. FINAL LOCATIONS AND NUMBERS SHALL BE AGREED WITH ENGINEER.
10- FIRE DETECTION & ALARM SYSTEM , SHALL BE CARRIED OUT INACCORDANCE A WITH NFPA & LOCAL CIVIL DEFENSE DEPARTMENT REQUIREMENTS.

FOR POWER DISTRIBUTION BOARDS AND RISER

01- POWER SUPPLY FEEDER CABLE/S SIZES SHOWN IN THE DRAWINGS MAY BE HIGHER IN SIZE THAN THEIR SUPPLY SIDE/ LOAD SIDE MSB/S, SMB/S, DB/S, MCCB/ISOLATOR TERMINAL CAPACITY. STRANDS OF WIRES SHALL NOT BE CUT IN ANY CASE TO ACCOMODATE CABLES TO ANY TERMINALS AT THE TIME OF TERMINATION. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THE FOLLOWING TO FECILITATE TERMINATION OF HIGHER SIZE CABLES.
a. SPREADER LINKS OF APPROVED SIZE OF ADEQUATE, APPROPRIATE AND APPLICABLE SIZE SHALL BE USED, AND THE ENCLOSURE SHALL BE SIZED ACCORDINGLY.
b. ALTERNATIVELY USE OF REDUCTION BOXE/S, BUSBAR JUNCTION BOXE/S OF APPROVED SIZE TO BE CONSIDERED FOR TERMINATING HIGHER SIZE CABLES.IN ANY CASE THE DERATED AMPERE RATING OF REDUCED SIZES OF CABLE/S BETWEEN SUCH REDUCTION/BUS BAR BOXES AND LOAD SIDE SMB/S, DB/S,ISOLATOR OR EQUIPMENT SHALL NOT BE LESS THAN THE AMPERE RATING OF THE RESPECTIVE SUPPLY SIDE MCCB.
02- TIME/CURRENT CHARACTERISTICS OF MCCB, IN SUPPLY SIDE/LOAD SIDE PANELS TO BE WELL CO-ORDINATED FOR TRIPPING CHARACTERISTICS/DESCRIMINATION.
03- ALL SUB-MAIN SWITCH BOARDS (SMB/S), MOTOR CONTROL, CENTRE/S (MCCBS) SHALL BE OF 'FORM 2B' SEPARATION.
04- EXACT LOCATION OF ALL EQUIPMENT / PANELS AND THEIR RESPECTIVE ISOLATORS NEED TO BE CO ORDINATED WITH ALL OTHER SERVICES AND TO ENGINEER'S APPROVAL.
05- ALL OUTGOING FEEDERS SIZES FOR MECHANICAL EQUIPMENTS TO BE AS PER SPECIFICATION /DRAWINGS AND AS PER FINAL SELECTION OF ALL APPLICABLE EQUIPMENT AND FINAL LOCATION.
06- ALLOW FOR CASCADING ALL MOTOR STARTER FEEDERS WITH 15-30 SEC TIME LAG.
07- ALLOW FOR BMS POINTS IN MECHANICAL EQUIPMENT / LIFTS / TRAVELLATORS, AS APPLICABLE.
08- MCCBS TO HAVE ADJUSTABLE TRIP SETTINGS AND THESE TRIP SETTINGS TO BE ADJUSTED AND SET AT SITE TO ENGINEERS APPROVAL.
09- ALLOW FOR 30MA ELCB FOR APPLICABLE CONTROL PANELS FOR ALL WET EQUIPMENT.
10- THE EXACT ROUTING, SPACE CONSTRAINTS, SPACE REQUIREMENT, AND REQUIRED CLEARENCES SHALL BE WELL CONSIDERED AND CO-ORDINATED WITH RESPECT TO OTHER ADJACENT PANELS AND ALL OTHER SERVICES. OBTAIN DUE APPROVAL FROM THE ENGINEER IN THIS REGARD PRIOR TO COMMENCEMENT OF MANUFACTURE OF THE BUS DUCT.
11- ALLOW FOR REDUCED VOLTAGE STARTERS FOR MOTORS AS PER SPECIFICATION.

FOR GROUNDING SYSTEM LAYOUTS

01- WHETHER IT IS SHOWN ON THE DRAWINGS OR NOT ALL EXTERNS METALLIC PARTS SHALL BE CONNECTED TO EQUIPMENT THE NEAREST BONDING EQUIPOTENTIAL CONDUCTOR USING A MINIMUM OF Ø 6MM2 COPPER CONDUCTOR.-EARTHING & BONDING SYSTEMS
02 SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PROJECTS DOCUMENTS AND BS STANDARS
03 SOIL CONDITIONS SHALL BE CHECKED TO ENSURE PROPER EARTHING EARTH RESISTANT SHALL NOT EXCEED 1 OHM.

FOR LIGHTING SYSTEM LAYOUTS

01- UNLESS OTHERWISE INDICATED, ALL INSTALLATIONS SHALL BE CARRIED -OUT USING RIGID PVC CONDUITS RECESSED IN SLABS AND WALLS.
02- FOR DETAILS OF LIGHTING FIXTURES, REFER TO FIXTURE LEGEND.
03- EXACT LOCATION OF LIGHTING FIXTURES SHALL BE COORDINATED WITH THE REFLECTED CEILING LAYOUTS,INTERIOR DESIGN DRAWINGS, AND MEDICAL CONSULTANT LOADED DRAWINGS.
04- EXACT LOCATION OF THE LIGHTING SWITCHES AND WALL MOUNTED FIXTURES SHALL BE COORDINATED WITH THE INTERIOR DESIGN DRAWINGS, AND MEDICAL CONSULTANT LOADED DRAWINGS.
05- ALL SURFACE MOUNTED ELECTRICAL INSTALLATIONS INSIDE THE ELECTRICAL AND MECHANICAL PLANT ROOMS SHALL BE CARRIED OUT USING G.I. CONDUITS.
06- TYPICAL SWITCHING CONTROL FOR ALL PATIENTS' ROOMS.

FOR LOW CURRENT SYSTEMS LAYOUTS

01- USE GI TRUNKING OR PVC / GI 25MM Ø CONDUITS FOR TELEPHONE & DATA SYSTEM WIRING.
02- CONTRACTOR TO SHOW ALL CABLE TRAY/TRUNKING ROUTES IN COORDINATION WITH OTHER SERVICES.
03- 25% SPACE CAPACITY SHALL BE CONSIDERED WHILE SIZING THE CABLE TRAY & TRUNKING FOR FUTURE USE.
04- 4 PAIR CAT.6 CABLE SHALL BE LAID FROM IDF TO EACH OUTLET POINTS.
05- COORDINATE WITH MEDICAL COSULTANT LOADED DRAWINGS FOR EXACT LOCATIONS & HEIGHTS OF TELEPHONE & DATA OUTLETS.
06- CONTRACTOR SHALL SUBMIT COMPLETE SCHEMATIC WIRING DIAGRAM, EQUIPMENT DETAILS ... ETC. FOR ALL SYSTEMS TO ENGINEERS APPROVAL.
07- ALL SURFACE MOUNTED ELECTRICAL INSTALLATIONS INSIDE THE ELECTRICAL AND MECHANICAL PLANT ROOMS SHALL BE CARRIED OUT USING G.I. CONDUITS.
08- FOR CARD ACCESS CONTROL AND MAGNETIC CONTACT EXACT LOCATIONS COORDINATE WITH ARCHITECTURAL DOORS DETAILS.
09- SPEAKERS RATINGS AND LOCATIONS SHALL BE CHECKED AND VERIFIED BY THE SOUND SYSTEM SUPPLIER TO ENSURE PROPER AND OPTIMUM SOUND PRESSURE LEVELS AND DISTRIBUTION ARE ACHIEVED.
10- COORDINATE WITH A/V SYSTEM SUPPLIER FOR THE DETAIL OF THE INSTALLATIONS REQUIREMENTS.
11- COORDINATE THE A/V SYSTEM DEVICES WITH THE INTERIOR DESIGN.

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GENERAL NOTES

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MOUNTING HEIGHT OF DEVICES AND EQUIPMENT

unless otherwise indicated, devices and equipment shall be installed at the following heights, measured in cms. from f.f.l., to the center line of device or equipment.
items marked thus (*) shall be refered to general notes 2.1 to 2.12 & 3.1–3.5 for additional remarks: IEC 60364

lighting point above mirror in toilb01–et–mu	RAL 180 cms. or as peR I.D. requirement
LIGHTING SWITCHES	125 cms.
FANS SWITCHES	125 cms.
13 AMPERE SOCKET OUTLET	45 cms.
F.C.U SOCKET OUTLET	Ceiling
20 AMPERE DP SWITCH FOR AC UNIT	Adjacent to A/C
20 AMPERE DP SWITCH FOR WATER HEATER	125 cms.
13 AMPERE SO IN KITCHEN ABOVE WORK TOP	25cm above worktop
ROOM THERMOSTATS	160 cms.
FIRE ALARM BREAKE GLASS	125 cms.
FIRE ALARM BELL	220 cms.
TELEPHONE/TV CONNECTION BOX	100 cms.
DATA/SOUND CONNECTION BOX	100 cms.
TELEPHONE SOCKET OUTLETS	45 cms.
DATA SOCKET OUTLETS	45 cms.
TV SOCKET OUTLETS	120 cms.
POWER SOCKET OUTLETS FOR TV	120 cms.
TOP OF DISTRIBUTION BOARD	180 cms.
TOP OF addressable fire alarm control panel	180 cms.
CONTACTOR CONTROL PUSHBUTTON	140 cms.
FLEX OUTLET	45 cms.
OUTLET BOX FOR CONTROL DEVICE	140 cms.

minimum requirement of conduit sizes shall be as tabulated below:

cable size	conduit size			
conductor size	20mm	25mm	32mm	no. & diameter of wires
	MAX No. of cables			
1.5 mm2	11	18	30	1/1.13
2.5 mm2	8	14	23	1/1.78
2.5 mm2	7	12	20	7/0.67
4.0 mm2	5	9	15	7/0.85
6.0 mm2	4	7	12	7/1.04
10.0 mm2	3	4	7	7/1.35
16.0 mm2	2	3	5	7/1.70
25.0 mm2	–	2	4	7/2.14
35.0 mm2	–	–	2	19/1.53
50.0 mm2	–	–	2	19/1.78

mini coross sectional area of protective conductor

cross sectional area of phase conductor (s) mm2	mini coross sectional area of the corresponding protective conductor ECC or (SP) mm2
$S \leq 16$	S
$16 < S \leq 35$	16
$S > 35$	S/2

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Electrical equipment Autocad Block

SYMBOL	DESCRIPTION
	Electrical boiler
	Fan In The Ceiling
10 KVA	UPS 10 KVA
	Dryer
	Exhaust Fan
	Call
	Buzzer
	Siren
AA	Horn
	Watch
	Mother clock
AA	Electric door lock
	Heater
	Heater with accumulation
	Cooker
	Microwave oven
	Electrical oven
	Washing machine
	Drying cupboard
	Dishwasher mashine
	Refrigerator
	Freezer
	Motor
	water solar panel

Electrical outlets Autocad Block

SYMBOL	DESCRIPTION
	Double socket + grounding IP55 (different heights)
	UPS Double socket with grounding IP55 (different heights)
	Single socket with grounding IP55 with child protection
	UPS Single socket with grounding IP55 with child protection
	Outlet CEE 5P6H 3P+N+T 16A IP67
	Outlet CEE 3P6H 1P+N+T 32A IP67
	Power outlet with two-pole switch
	Power outlet (general symbol)

IT Autocad Block

SYMBOL	DESCRIPTION
	WIFI router
	IT cabinet
	Single data outlet RJ45
	Double data outlet RJ45

Electrical box & Protections Autocad Blocks

SYMBOL	DESCRIPTION
	Distribution Board
	Earth Pin
	Electrical box ground Bar
	Differential RCD xA xmA
	Breaker MCB xP xA curve B
	Lightning Arrester
	Fuse
	Sectionneur interrupteur
	Changeover switch
Name	Distribution box name
	Stabilizer

LEGEND LIGHTING DEVICE SYSTEM

SYMBOL	DISCRIPTION
	SURFACE MOUNTED IN CEILING LED LIGHTING FIXTURE, ALUMINUM HOUSING, POLYSTYRENE OPTICAL COVER ,OPAL LENS FINISH , WITH 2700LM, 30W, IP-22, CRI>80, 4000K.(L1)
	SURFACE MOUNTED IN CEILING LED DOWN LIGHT LIGHTING FIXTURE, WITH DIE CASTALUMINUM HOUSING & POLYCARBONATE REFLECTOR, SYSTEM FLUX 1530lm, 18W, 840 NUETRAL WHITE, IP-40.(L2)
	WALL- MOUNTED LED LIGHTING LUMINARIES, WALL MOUNTED OUTDOOR , 220V, 50Hz,20 WATT, 1600 LM, IP65.(L3)
EXIT	CEILING MOUNTED EXIT SIGN LUMINARIES WITH 1X8W, LED LAMP AND WITH DOUBLE SIDED PICTOGRAM IP44, DIRECTION AS SHOWN IN DRAWING (L5)
	ANTI-MOSQUITOES DEVICE, 20W.
	5W LED WELL MOUNTED LIGHTING LUMINAIRE USED FOR MIRROR, OPAL DIFFUSER, 90LM/W, IP56, CRI>80, 6500K.
EM	6W LED WELL MOUNTED LIGHTING LUMINAIRE, WITH BUILT IN BATTERY USED FOR EMERGNCEY.
	WALL MOUNTED DECORATIVE LIGHTING UNIT WITH 100 W. LINEAR HALOGEN LAMP (IP-65)(L4).
	PHOTOCELL SENSOR,IP65.
	LIGHTING SWITCH, ONE WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, ONE WAY, TWO GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, TWO GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, THREE GANGE, 240V.
	BACK BOX.
	MAIN DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.

LEGEND HVAC POWER SYSTEM

SYMBOL	DISCRIPTION
	A.C SPLIT INTERNAL UNIT.
AA 16A	16A-220V,WALL MOUNTED SWITCHED WITHE RED INDECATOR 1.300MM A.F.F.L WITH GALVANIZED STEEL SQUARE BOX.
	16A EARTHED ,SHUTTERED AND SWITCHED SINGLE POWER SOCKET OUTLET.
	DISTRIBUTION BOARD FOR AC .

LEGEND VENTILATION / FAN SYSTEM

SYMBOL	DISCRIPTION
	CEILING FRESH AIR FAN OUTLET.
	FAN SWITCH.
	WALL MOUNTED FRESH AIR FAN OUTLET.
	SINGLE GANG ONE-WAY FAN SWITCH.
	BACK BOX.
	AXIAL WALL/ GLASS MOUNTED EXHAUST FANS FRESH AIR FAN OUTLET.
	INLINE FAN (DUCTED).
	SINGLE PHASE DISCONNECT SWITCH, 220V, 50HZ
	MAIN DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.

LEGEND POWER SYSTEM

SYMBOL	DISCRIPTION
	13A EARTHED , SHUTTERED, SWITCHED ONE GANG UPS SOCKET OUTLET- UK Type.
	16A EARTHED , SHUTTERED, UPS SOCKET OUTLET- EU Type.
	13A EARTHED , SHUTTERED, SWITCHED ONE GANG NORMAL SOCKET OUTLET- UK Type.
	63A 3-PHASE INDUSTRIAL TYPE SOCKET OUTLET, 5PIN, SWITCHED, COMPLETE WITH PLUG, IP-55(380V,50HZ,5PIN).
AA 20A	20A-220V,WALL MOUNTED SWITCHED WITHE RED INDECATOR 1.300MM A.F.F.L WITH GALVANIZED STEEL SQUARE BOX.
IP65	16A EARTHED , SHUTTERED, SWITCHED ONE GANG NORMAL SOCKET OUTLET.
	20A EARTHED , SHUTTERED AND SWITCHED SINGLE POWER SOCKET OUTLET.
	BACK BOX.
	DISTRIBUTION BOARD FOR UPS ELEC.POWER SYSTEM.
	DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.
	DISTRIBUTION BOARD FOR X-RAY_UPS.
	MAIN DISTRIBUTION BOARD MDB.

W.P =weather proof
X =Number of sockets

LEGEND LOW CURRENT SYSTEM

SYMBOL	DISCRIPTION
	DATA OUTLET, WALL MOUNTED.
	TEL OUTLET, WALL MOUNTED.
	SATELLITE SOCKET.
	ACCESS POINT WIFI.
DPB	DATA PULL BOX.
	IT CABINET
TJB	TEL JUNCTIONS BOX.
	NETWORK SWITCH.
	NETWORK SWITCH POE.
	FINGERPRINT DEVICE FOR ATTENDANCE.

LEGEND FIRE ALARM

SYMBOL	DISCRIPTION
S	SMOKE DETECTOR.
H	HEAT DETECTOR.
B	MANUAL CALL POINT / BREAK GLASS
	BELL / SOUNDER WITH STROBE
FACP	CONVENTIONAL FIRE ALARM CONTROL PANEL

LEGEND FIRE EXTINGUISHER

SYMBOL	DISCRIPTION
	DRY POWDER FIRE EXTINGUISHER 6KG CAPACITY.
	CO2 FIRE EXTINGUISHER 6KG CAPACITY.

LEGEND EARTHING SYSTEM

SYMBOL	DISCRIPTION
E	EARTHING POINT GROUNDING SYSTEM EARTHING ROD 2.4M (L) 16MM(DIA) COMPLETE WITH CONCRETE EARTH PIT.
	(1X16)mm2 BARE CU.CABLE FOR EARTHING.
	EARTH BAR.

LEGEND DISTRIBUTION PANEL

SYMBOL	DISCRIPTION
UPS	UPS
	DISTRIBUTION BOARD FOR UPS ELEC.POWER SYSTEM.
	DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.
	DISTRIBUTION BOARD FOR AC .
	DISTRIBUTION BOARD FOR X-RAY_UPS.
	MAIN DISTRIBUTION BOARD MDB.
A.T.S	AUTOMATIC TRANSFER SWITSH
	UNDERGROUND.
	MANHOLE.

LEGEND BLOOD REF ALARM CIRCUIT

SYMBOL	DISCRIPTION
	UPS , 350 W
NC	NORMALLY CLOSE Point are already in the refrigerator
	Lighting and sound horn alarm device

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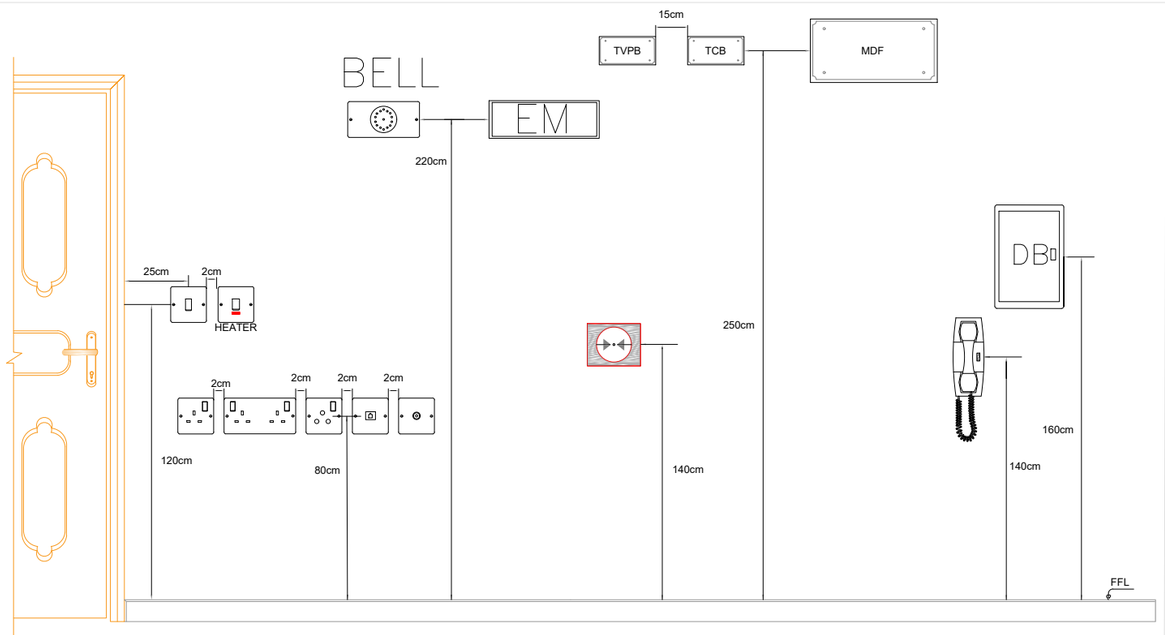
LEGENDS

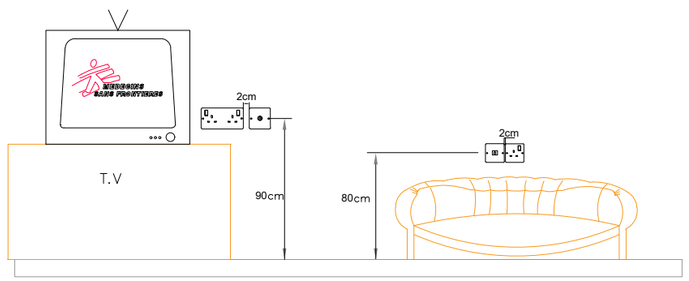
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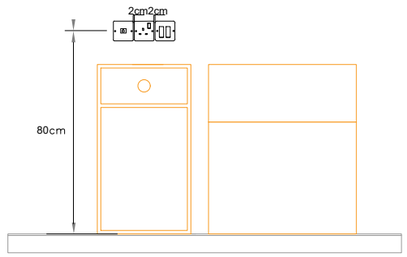
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hall



ROOM

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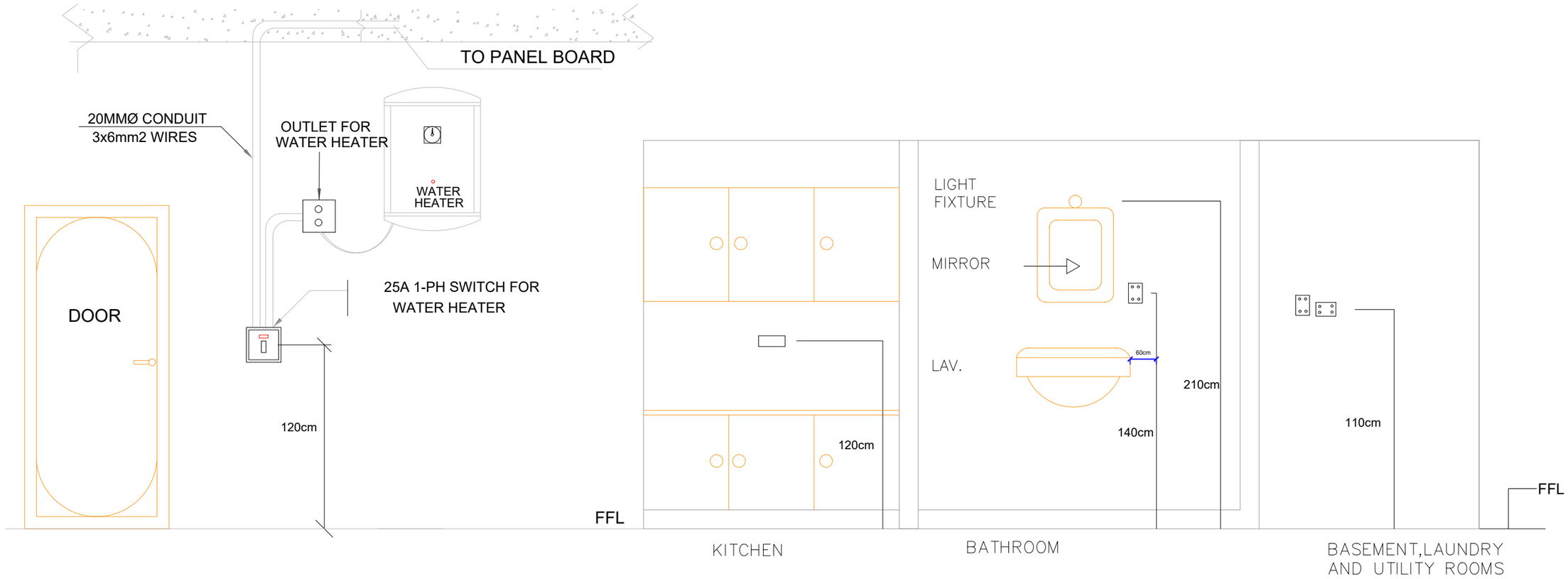
ELECTRICAL DETAILS

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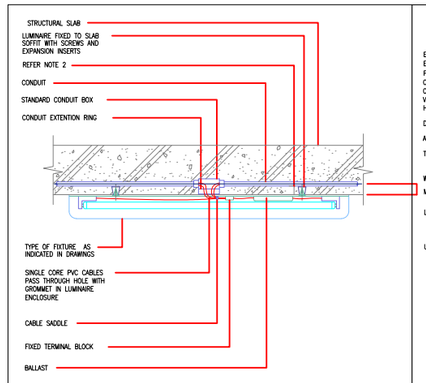
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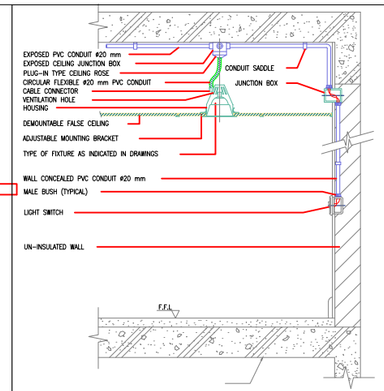
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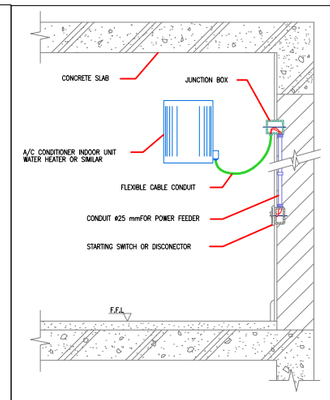
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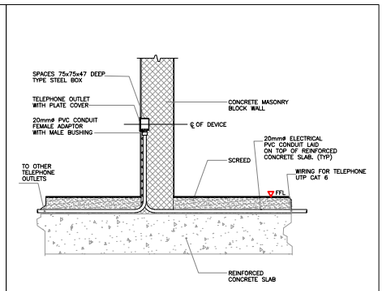
SURFACE MOUNTED FLUORESCENT FIXTURE



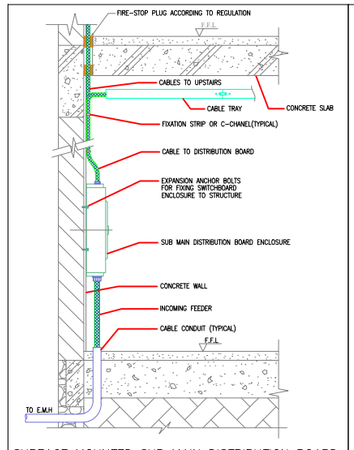
RECESSED MOUNTED DOWN LIGHT FIXTURE



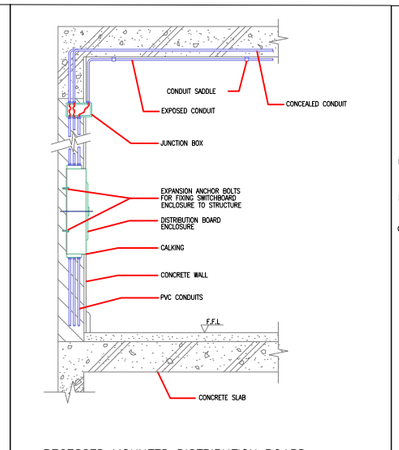
OVER HEAD MOUNTED EQUIPMENT WIRING CONNECTION



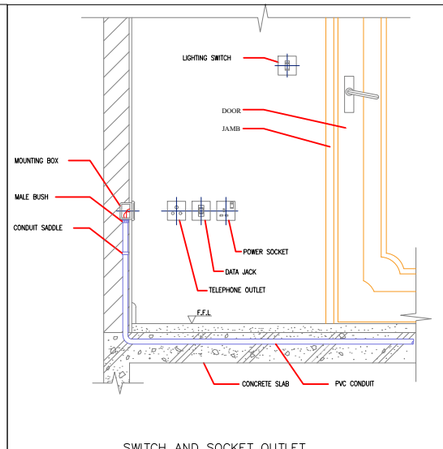
TYPICAL TELEPHONE OUTLET INSTALLATION DETAILS



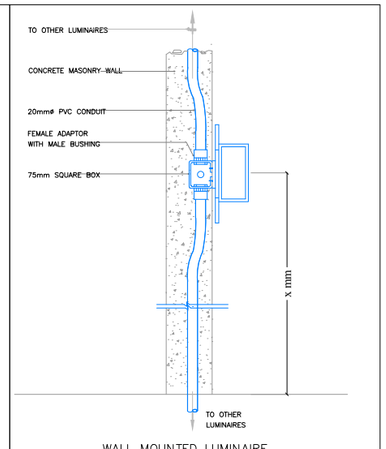
SURFACE MOUNTED SUB MAIN DISTRIBUTION BOARD



RECESSED MOUNTED DISTRIBUTION BOARD



SWITCH AND SOCKET OUTLET



WALL MOUNTED LUMINAIRE

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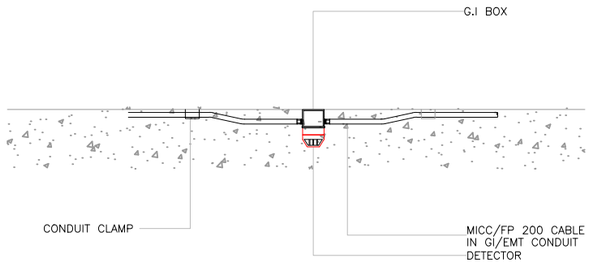
ELECTRICAL DETAILS

Drawn by / Dessiné par : RR

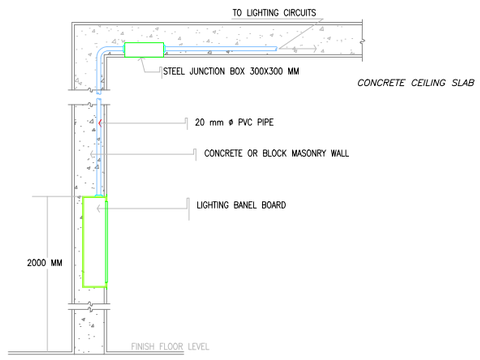
Verified by / Vérifié par :

Construction Phase :

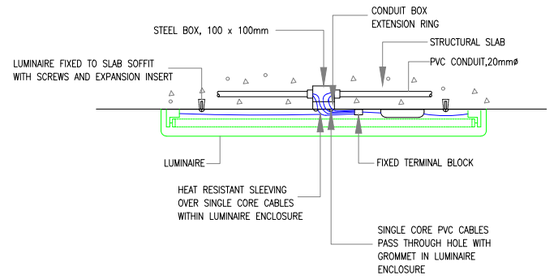
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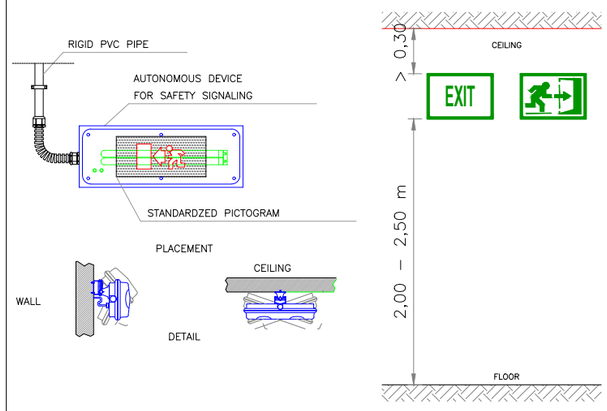
FIRE DETECTOR INSTALLATION IN CEILING SLAB



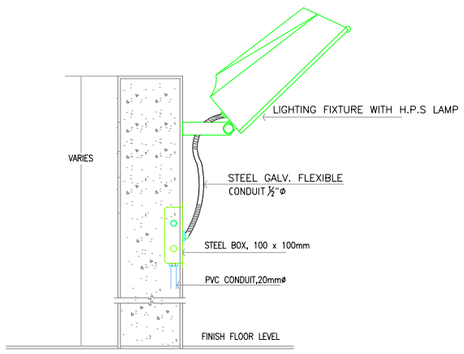
LIGHTIG CIRCUITS HOME RUN DETAILS



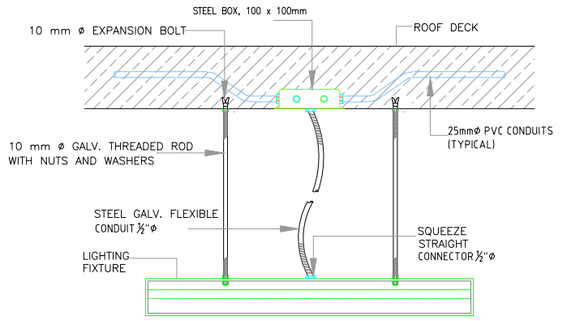
SURFACE MOUNTED LUMINAIRE



EMERGENCY LIGHTS



WALL MOUNTED LUMINAIRE



PENDANT TYPE LUMINAIRE

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ELEC DETAILS

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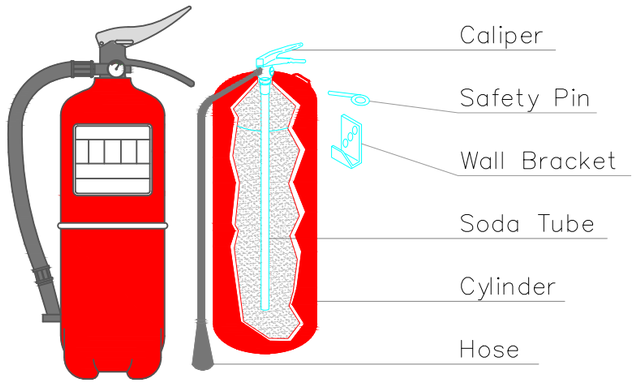
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MANUAL FIRE EXTINGUISHER PLACEMENT DETAIL

How to use Fire Extinguisher

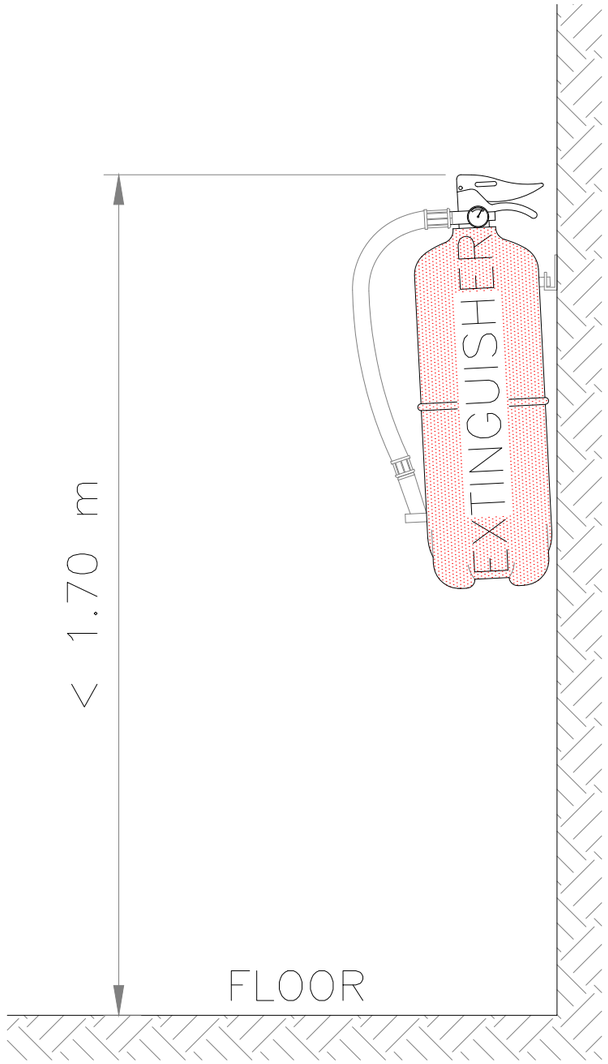
- **P** — PULL THE PIN
- **A** — AIM LOW AT THE BASE OF FLAME
- **S** — SQUEEZE THE HANDLE
- **S** — SWEEP SIDE TO SIDE

MANUAL EXTINGUISHER



Manual fire extinguisher manufactured according to technical standards, with sheet steel, built-in pressure, painted and silk-screened with instructions for use, type, load capacity, useful life and discharge time.

Provided with fixing hardware, check pressure gauge, safety pin, discharge lever and diffuser hose to direct the jet.



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Drawing Title / Titre du Dessin : **ELEC Details**

Drawn by / Dessiné par : RR

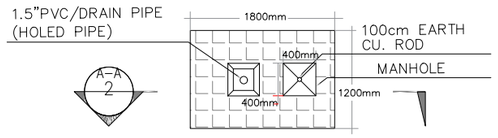
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Construction Phase :

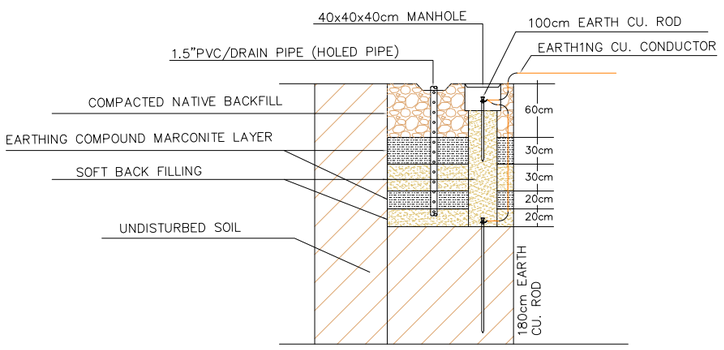
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TYPE E1

This Type Used for Panels

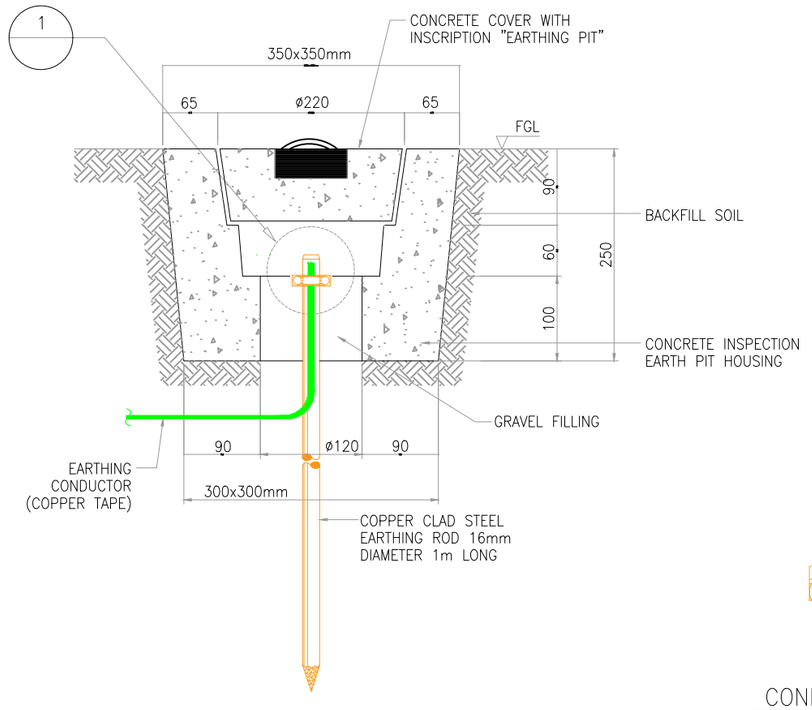


1 TYPICAL PLANE DETAILS FOR EARTHING PIT (TYPE E1)

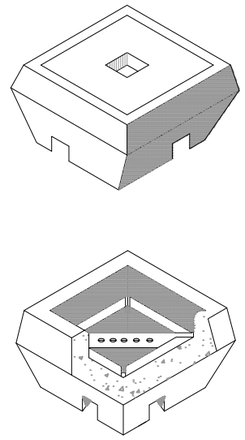


2 SECTION A–A
SCALE

TYPICAL DETAIL



INSPECTION PIT DETAIL



CONNECTION OF ROD
TO CONDUCTOR 1

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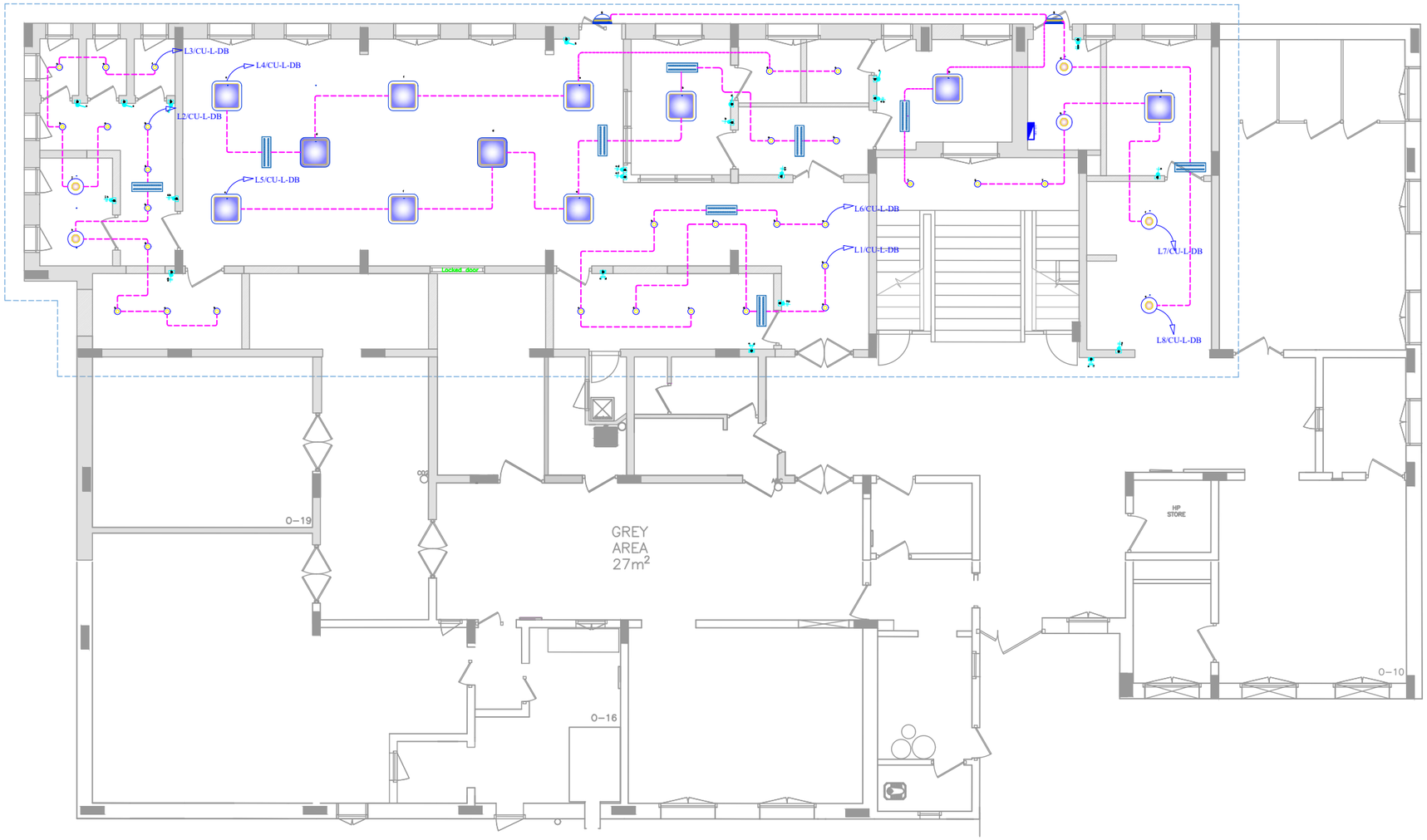
ELEC DETAILS

Drawn by / Dessiné par : RR

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Construction Phase :

File name / Nom du Dossier :



LEGEND LIGHTING DEVICE SYSTEM

SYMBOL	DISCRIPTION
	SURFACE MOUNTED IN CEILING LED LIGHTING FIXTURE, ALUMINUM HOUSING, POLYSTYRENE OPTICAL COVER ,OPAL LENS FINISH , WITH 2700LM, 30–36W, IP–44, CRI>90, 4000K.(L1)
	SURFACE MOUNTED IN CEILING LED DOWN LIGHT LIGHTING FIXTURE, WITH DIE CASTALUMINUM HOUSING & POLYCARBONATE REFLECTOR, SYSTEM FLUX 1530lm, 24W, 840 NUETRAL WHITE, IP–40.(L2)
	WALL– MOUNTED LED LIGHTING LUMINARIES, WALL MOUNTED OUTDOOR , 220V, 50Hz,20 WATT, 1600 LM, IP65.(L3)
EXIT	CEILING MOUNTED EXIT SIGN LUMINARIES WITH 1X8W, LED LAMP AND WITH DOUBLE SIDED PICTOGRAM IP44, DIRECTION AS SHOWN IN DRAWING (L5)
	ANTI–MOSQUITOES DEVICE, 20W.
	SURFACE MOUNTED IN CEILING LED DOWN LIGHT LIGHTING FIXTURE, WITH DIE CASTALUMINUM HOUSING & POLYCARBONATE REFLECTOR, SYSTEM FLUX 1530lm, 18W, 840 NUETRAL WHITE, IP–40.(L2)
EM	6W LED WELL MOUNTED LIGHTING LUMINAIRE, WITH BUILT IN BATTERY USED FOR EMERGNCEY.
	LIGHTING SWITCH, ONE WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, ONE WAY, TWO GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, ONE WAY, Three GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, THREE GANGE, 240V.
	BACK BOX.
	MAIN DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.

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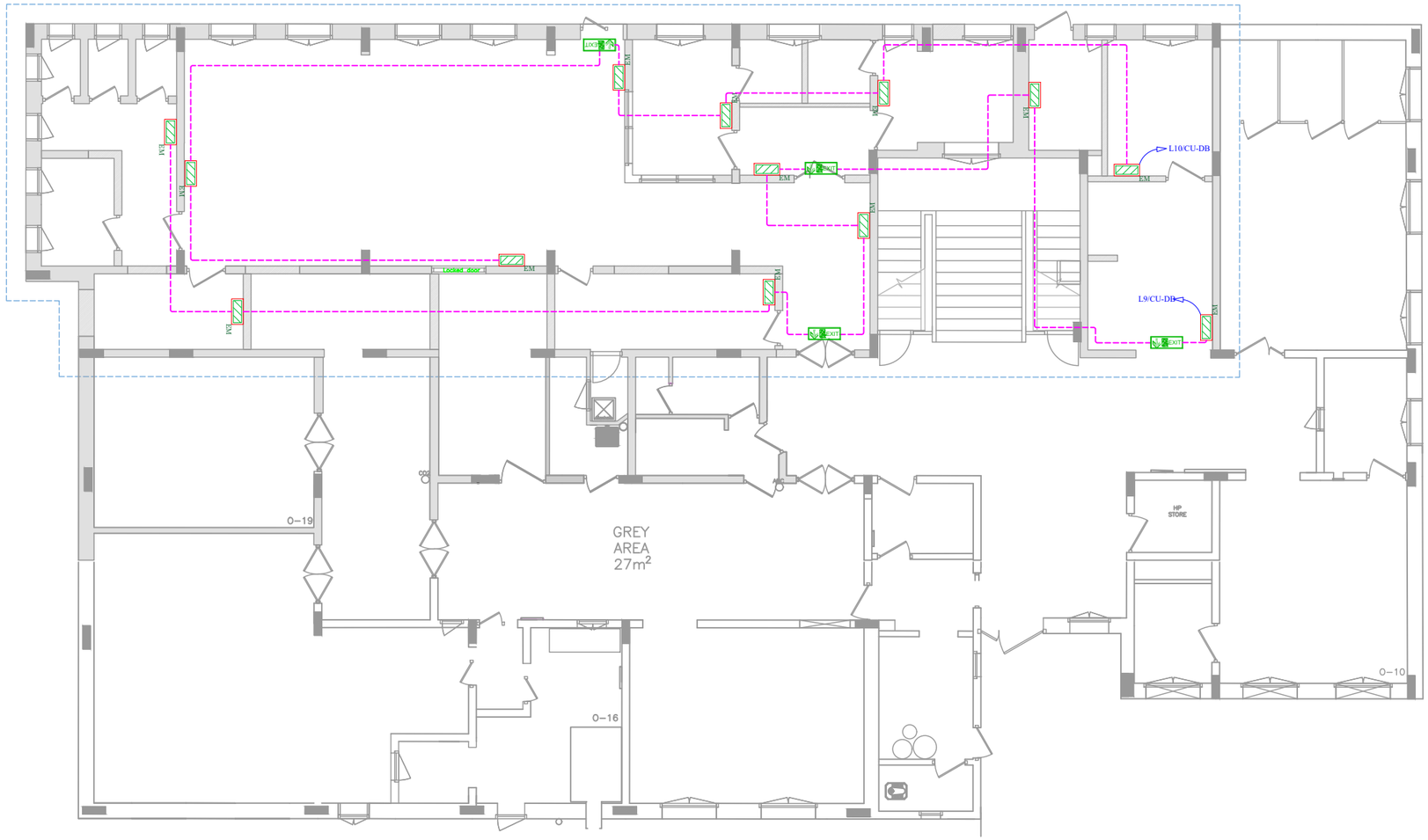
LIGHTING SYSTEM

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LEGEND LIGHTING DEVICE SYSTEM

SYMBOL	DISCRIPTION
	SURFACE MOUNTED IN CEILING LED LIGHTING FIXTURE, ALUMINUM HOUSING, POLYSTYRENE OPTICAL COVER ,OPAL LENS FINISH , WITH 2700LM, 30W, IP–22, CRI>80, 4000K.(L1)
	SURFACE MOUNTED IN CEILING LED DOWN LIGHT LIGHTING FIXTURE, WITH DIE CASTALUMINUM HOUSING & POLYCARBONATE REFLECTOR, SYSTEM FLUX 1530lm, 18W, 840 NUETRAL WHITE, IP–40.(L2)
	WALL– MOUNTED LED LIGHTING LUMINARIES, WALL MOUNTED OUTDOOR , 220V, 50Hz,20 WATT, 1600 LM, IP65.(L3)
EXIT	CEILING MOUNTED EXIT SIGN LUMINARIES WITH 1X8W, LED LAMP AND WITH DOUBLE SIDED PICTOGRAM IP44, DIRECTION AS SHOWN IN DRAWING (L5)
	ANTI–MOSQUITOES DEVICE, 20W.
	5W LED WELL MOUNTED LIGHTING LUMINAIRE USED FOR MIRROR, OPAL DIFFUSER, 90LM/W, IP56, CRI>80, 6500K.
EM	6W LED WELL MOUNTED LIGHTING LUMINAIRE, WITH BUILT IN BATTERY USED FOR EMERGNCEY.
	WALL MOUNTED DECORATIVE LIGHTING UNIT WITH 100 W. LINEAR HALOGEN LAMP (IP–65)(L4).
	PHOTOCELL SENSOR,IP65.
	LIGHTING SWITCH, ONE WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, ONE WAY, TWO GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, ONE GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, TWO GANGE, 240V.
	LIGHTING SWITCH, TWO WAY, THREE GANGE, 240V.
	BACK BOX.
	MAIN DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.

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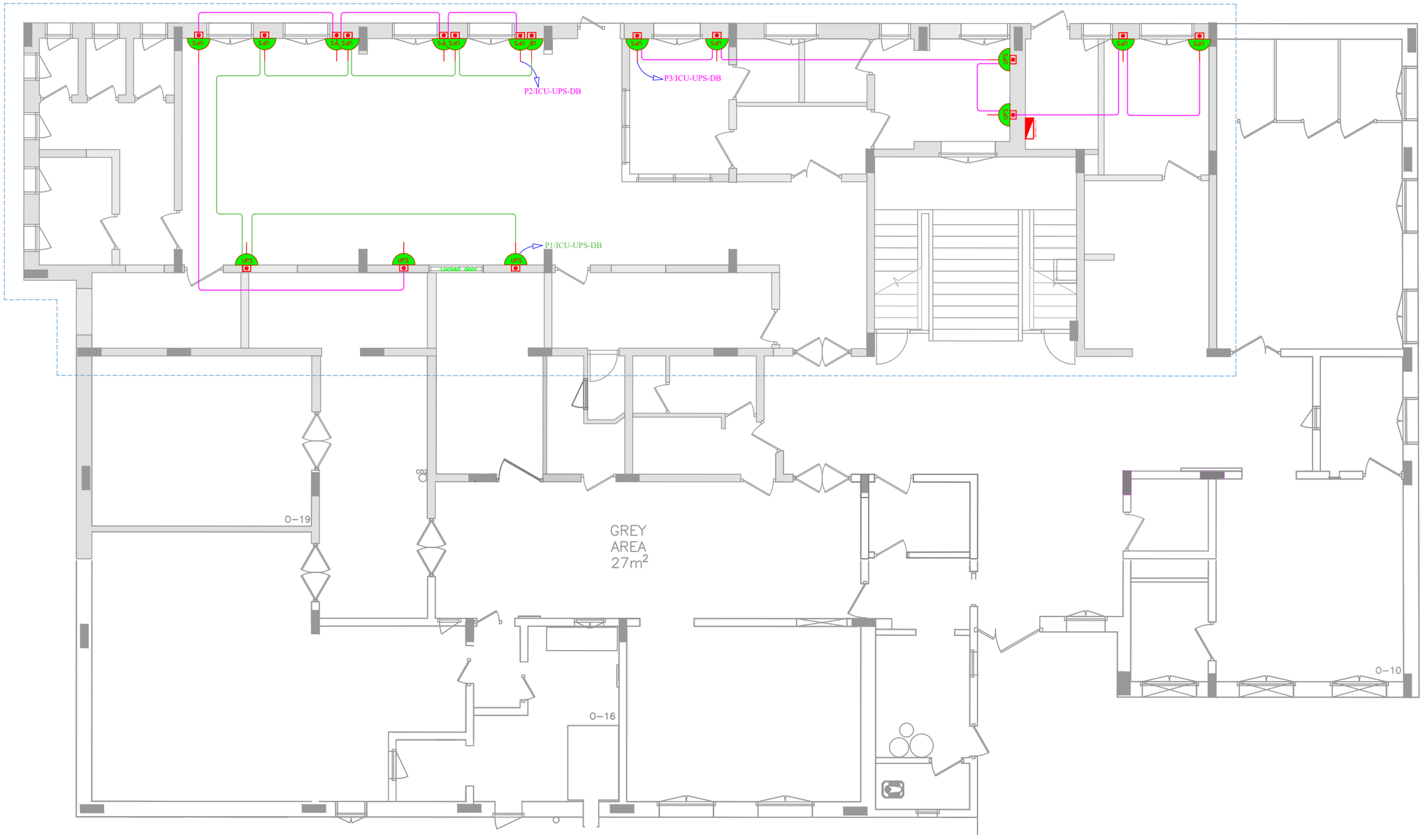
LIGHTING EMERGENCY

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Electrical outlet	
SYMBOL	DE
	13A EARTHED , SHU
	UPS DISTRIBUTIO

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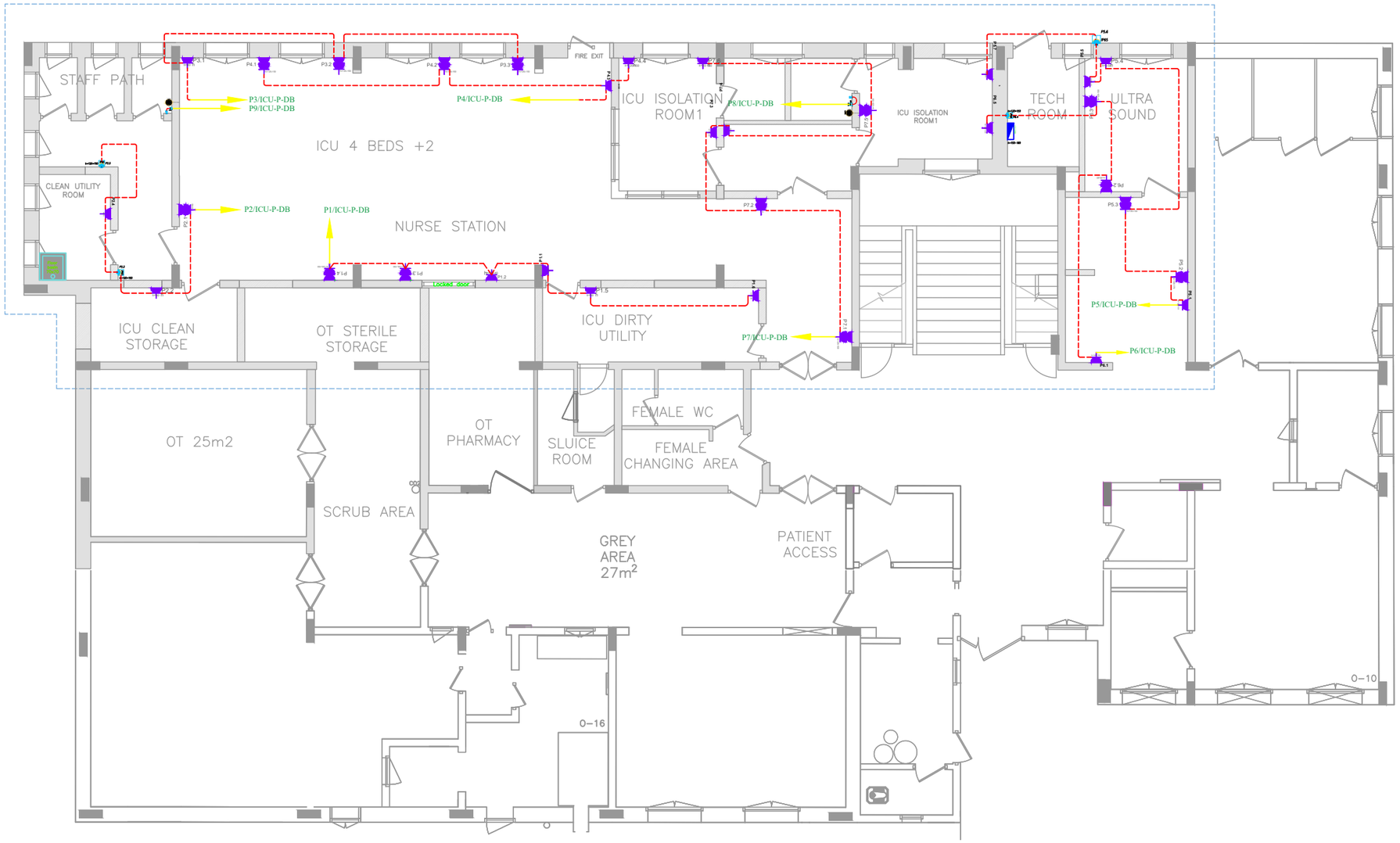
UPS POWER SYS

Drawn by / Dessiné par : RR

Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :



Electrical outlets Autocad Block	
SYMBOL	DESCRIPTION
	Double socket + grounding IP55 (different heights)
	UPS Double socket with grounding IP55 (different heights)
	Single socket with grounding IP55 with child protection
	UPS Single socket with grounding IP55 with child protection
	Outlet CEE 5P6H 3P+N+T 16A IP67
	Outlet CEE 3P6H 1P+N+T 32A IP67
	Power outlet with two-pole switch
	Power outlet (general symbol)

IT Autocad Block	
SYMBOL	DESCRIPTION
	WIFI router
	IT cabinet
	Single data outlet RJ45
	Double data outlet RJ45

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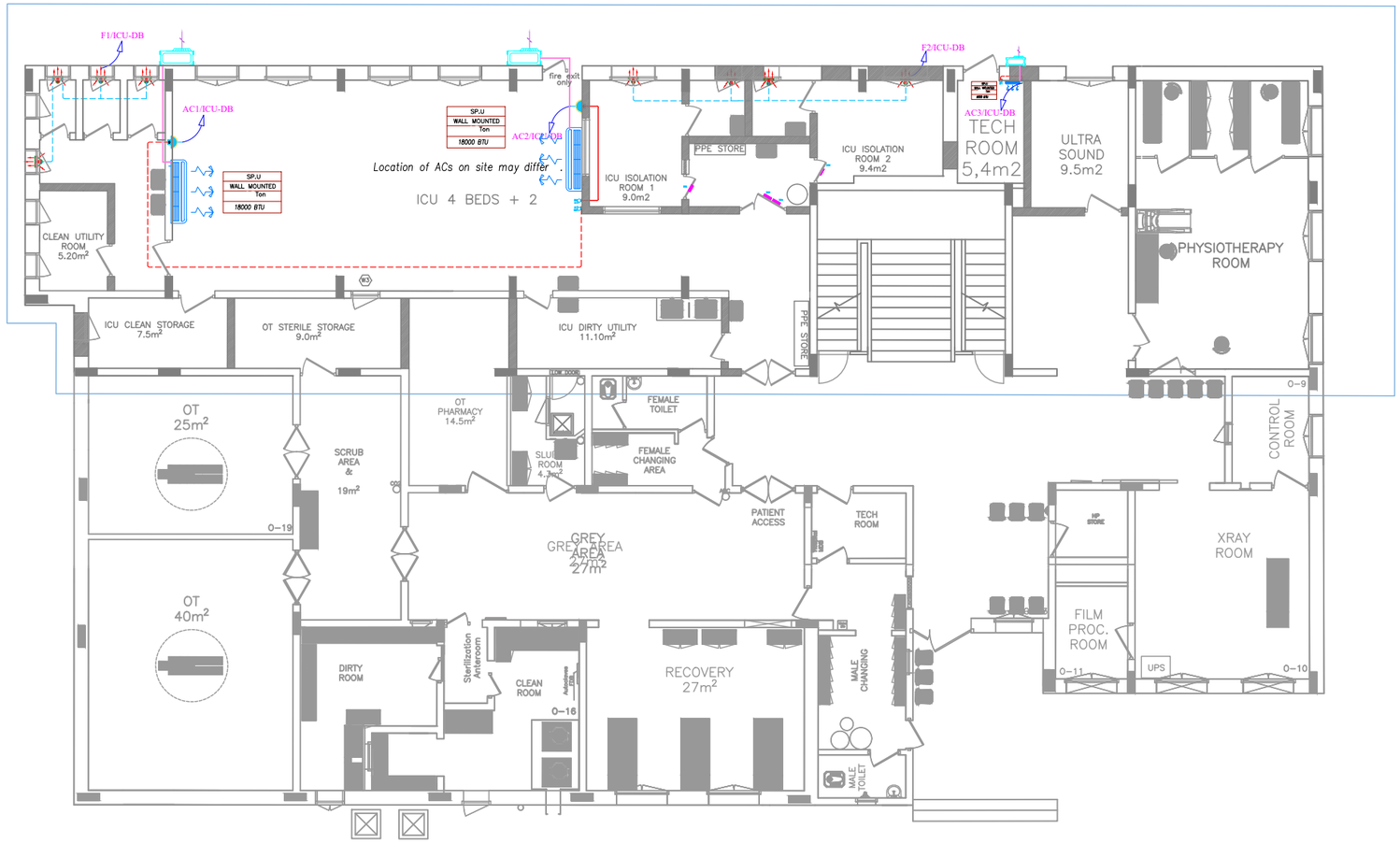
UPS POWER SYS

Drawn by / Dessiné par : RR

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Construction Phase :

File name / Nom du Dossier :



LEGEND HVAC POWER SYSTEM

SYMBOL	DISCRIPTION
	A.C SPLIT INTERNAL UNIT 24000BTU/h,220?240 V, 1Ø, 50 Hz,Inverter compressor.
A/C 16A	16A–220V,WALL MOUNTED SWITCHED WITHE RED INDECATOR 1300MM A.F.F.L.WITH GALVANIZED STEEL SQUARE BOX.
	16A EARTHED ,SHUTTERED AND SWITCHED SINGLE POWER SOCKET OUTLET.
	DISTRIBUTION BOARD FOR AC .
	DG Negative Pressure Room Door Transfer Grille,300(W) x 350(H) mm
	AXIAL WALL/ GLASS MOUNTED EXHAUST FANS FRESH AIR FAN OUTLET. Type: Window-mounted axial exhaust fan/ Airflow Capacity: 300 m³/h/ Power Supply: 220–240 V AC, 1 Phase, 50 Hz/ Protection: IP44/ Motor: Direct drive, continuous duty Noise Level: ≤ 45 dB(A)/Frame: ABS plastic or powder-coated steel/ Shutter: Automatic gravity shutter (backdraft shutter)/ Installation: Glass/window mounted

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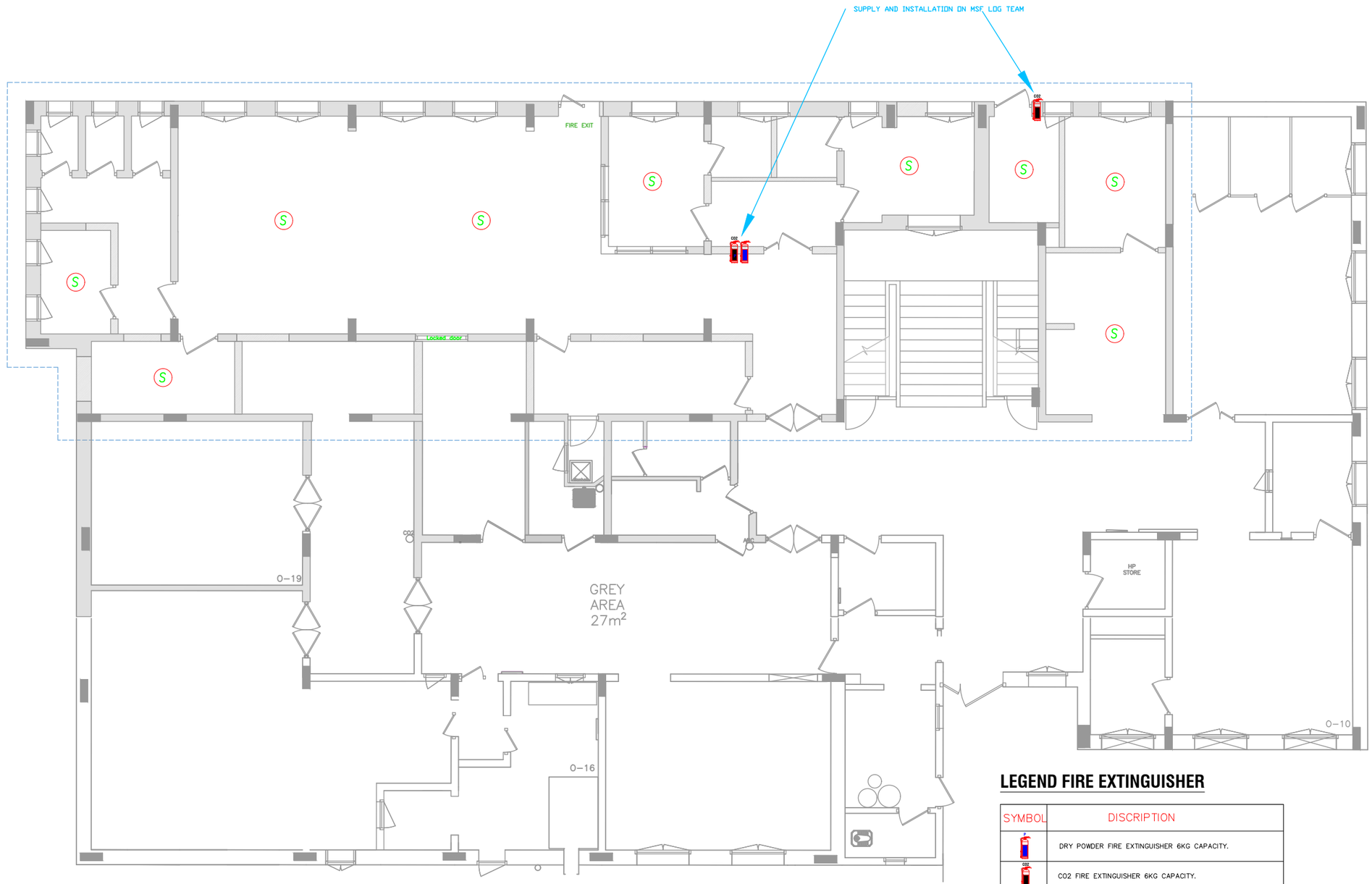
AC POWER AND VENTILATION

Drawn by / Dessiné par : RR

Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :



LEGEND FIRE EXTINGUISHER

SYMBOL	DISCRIPTION
	DRY POWDER FIRE EXTINGUISHER 6KG CAPACITY.
	CO2 FIRE EXTINGUISHER 6KG CAPACITY.
S	SMOKE DETECTORS

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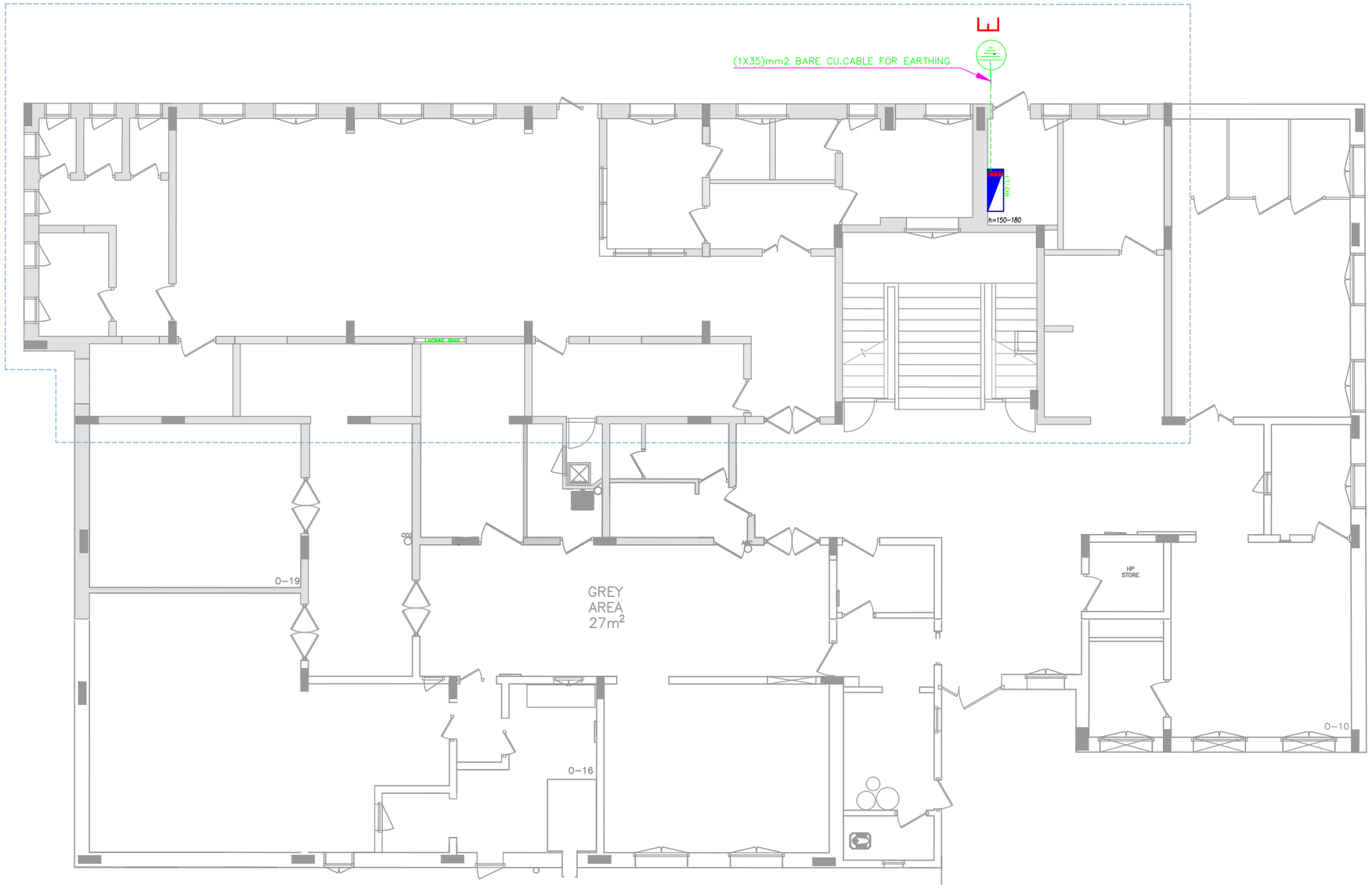
SMOKE DETECTORS

Drawn by / Dessiné par : RR

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LEGEND EARTHING SYSTEM

SYMBOL	DISCRIPTION
E	EARTHING POINT GROUNDING SYSTEM EARTHING ROD 2.4M (L) 16MM(DIA) COMPLETE WITH CONCRETE EARTH PIT.
	(1X35)mm2 BARE CU.CABLE FOR EARTHING.
	EARTH BAR.

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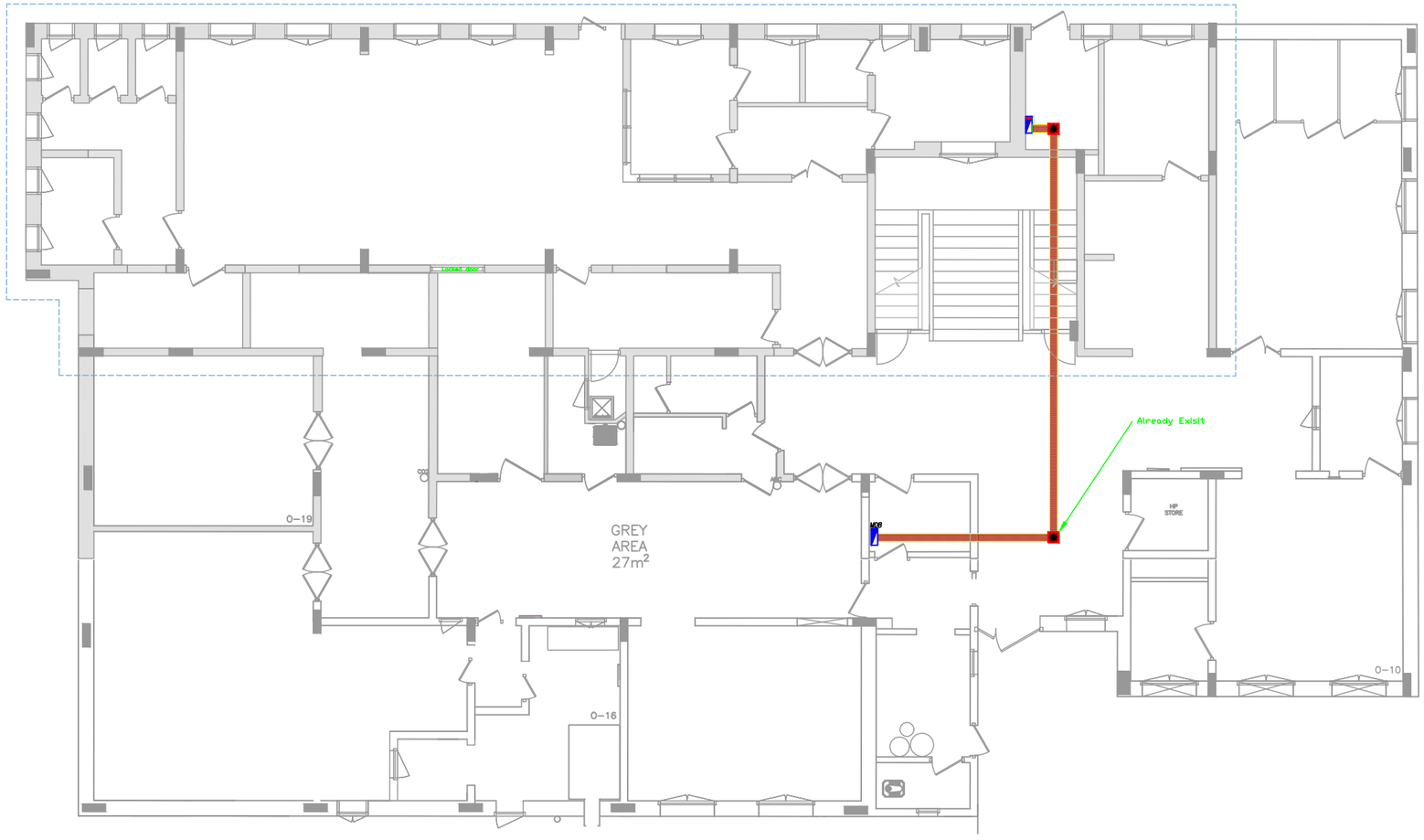
EARTHING SYSTEM

Drawn by / Dessiné par : RR

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Construction Phase :

File name / Nom du Dossier :



LEGEND LIGHTING DEVICE SYSTEM

SYMBOL	DISCRIPTION
	Main cable root
	MAIN DISTRIBUTION BOARD FOR NORMAL ELEC.POWER SYSTEM.
	Electrical MANHOLE. 70x70 cm

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Drawing Title / Titre du Dessin :

MAIN CABLE ROOT

Drawn by / Dessiné par : RR

Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :

INCOMING CABLE (H) [4cx10mm^2,600V]

SINGLE LINE DIAGRAM FOR [ICU-DB-KILO]
400/230V,TP+N+E,50Hz,
CU-BUSBAR-100A

GROUNDING BAR
SURGE ARRESTER II

4P C40A CB

TO UPS DB

PHASE A

2P 40A 30mA RCD

2P CB B10A 3x1.5 mm^2 [CU-L2-DB] CRT-L2
2P CB B10A 3x1.5 mm^2 [CU-L4-DB] CRT-L4
2P CB B10A 3x1.5 mm^2 [CU-L7-DB] CRT-L7
2P CB B10A 3x1.5 mm^2 [CU-L10-DB] CRT-L10
2P CB C16A 3x2.5 mm^2 [P1/ICU-P-DB] CRT-P1
2P CB C16A 3x2.5 mm^2 [P2/ICU-P-DB] CRT-P2
2P CB C16A 3x2.5 mm^2 [P7/ICU-P-DB] CRT-P7
2P CB C16A 3x2.5 mm^2 [P7/ICU-P-DB] CRT-P8
2P CB C16A 3x2.5 mm^2 [AC1/ICU-DB CRT-AC3

PHASE B

2P 40A 30mA RCD

2P CB B10A 3x1.5 mm^2 [CU-L1-DB] CRT-L1
2P CB B10A 3x1.5 mm^2 [CU-L5-DB] CRT-L5
2P CB B10A 3x1.5 mm^2 [CU-L9-DB] CRT-L9
2P CB C16A 3x2.5 mm^2 [P4/ICU-P-DB] CRT-P4
2P CB C20A 3x4 mm^2 [AC1/ICU-DB CRT-AC1
2P CB C16A 3x2.5 mm^2 [F2/ICU-DB] CRT-F2
2P CB C16A 3x2.5 mm^2 [P7/ICU-P-DB] CRT-P9
2P CB C16A SPARE

PHASE C

2P 40A 30mA RCD

2P CB B10A 3x2.5 mm^2 [CU-L3-DB] CRT-L3
2P CB B10A 3x2.5 mm^2 [CU-L6-DB] CRT-L6
2P CB B10A 3x2.5 mm^2 [CU-L8-DB] CRT-L8
2P CB C16A 3x2.5 mm^2 [P3/ICU-P-DB] CRT-P3
2P CB C16A 3x2.5 mm^2 [P5/ICU-P-DB] CRT-P5
2P CB C16A 3x2.5 mm^2 [P6/ICU-P-DB] CRT-P6
2P CB C16A 3x1.5 mm^2 F1/ICU-DB
2P CB C16A 3x1.5 mm^2 [AC2/ICU-DB CRT-AC2
2P CB C16A SPARE

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CENTRE OPÉRATIONNEL DE GENÈVE

HQ stamp / Tampon du Siège :

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Scale / Échelle :

Date :

Project Title / Titre du Projet :

Building Name / Nom du Bâtiment :

ID Project / Code Projet : YE120

Drawing Title / Titre du Dessin :

ICU DB SLD

Drawn by / Dessiné par : RR

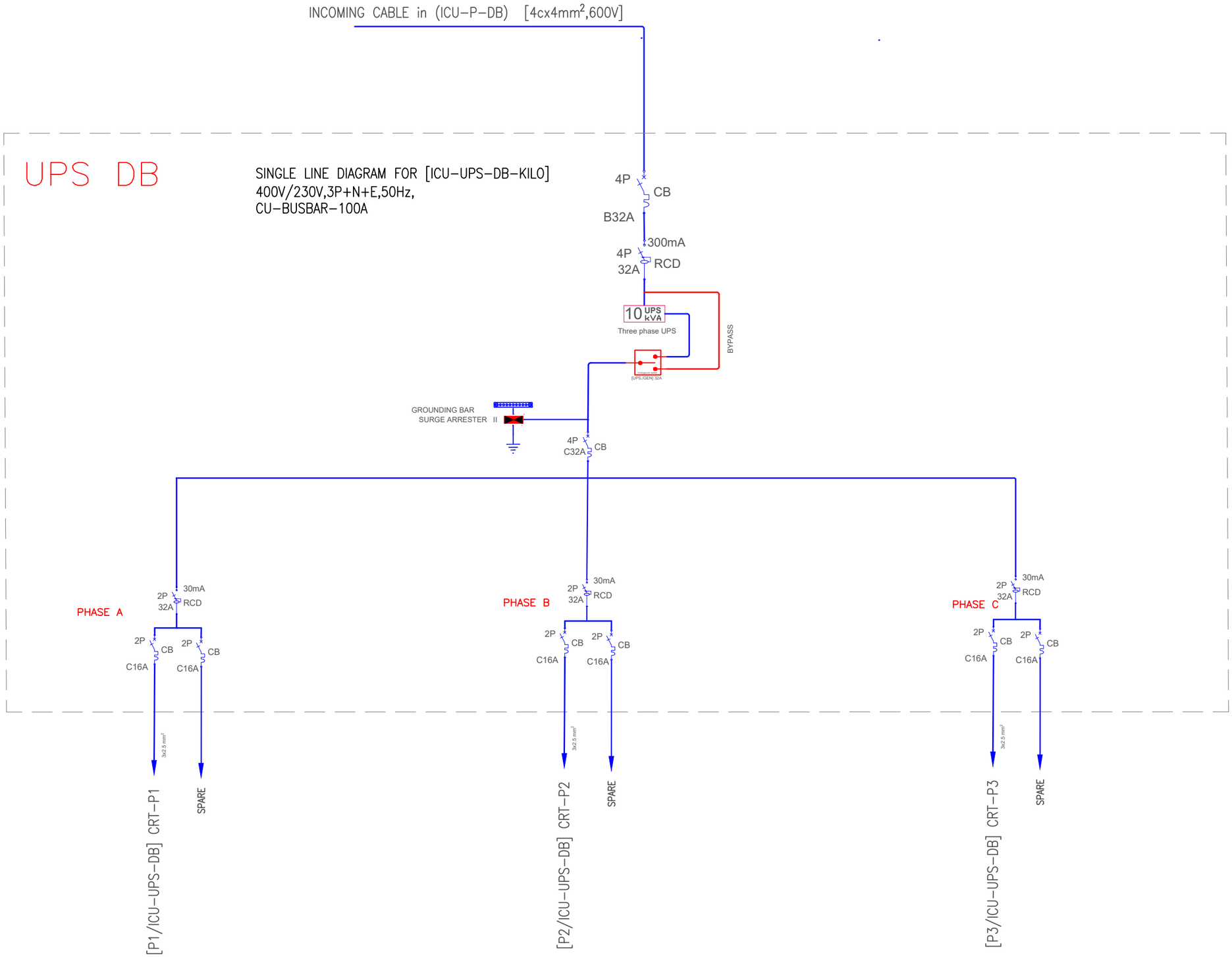
Verified by / Vérifié par :

Construction Phase :

File name / Nom du Dossier :

UPS DB

SINGLE LINE DIAGRAM FOR [ICU-UPS-DB-KILO]
400V/230V,3P+N+E,50Hz,
CU-BUSBAR-100A



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