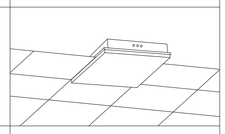
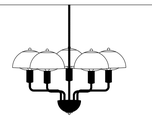
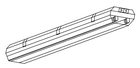
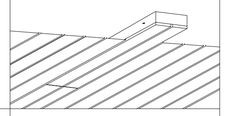
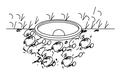
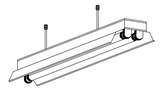
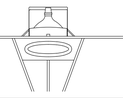
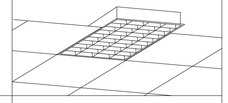
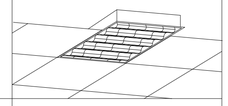
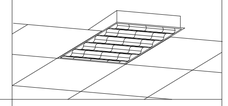
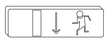
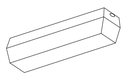
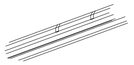
TYPE	DESCRIPTION	ISOMETRIC VIEW
B1	RECESSED LIGHTING FIXTURE WITH 40W LED LAMPS MOUNTED ON FAISE CEILING HAVING EXPOSED GRID. FIXTURE IS TO BE SUPPLY WITH POWER FACTOR CORRECTION. (IP 20). CONSTRUCTION : OPAL DIFFUSER TYPE IS MOULDED FROM ONE. TRANSLUCENT METACRYLATE OPAL SHEET WITH SHARPLY DEFINED RIGID EDAGES AND CORNERS. MANUFACTURER : "DEBRAS" OR EQUIVOLENT	
C	CEILING LIGHTING FITTING WITH 24W LED LAMP . CONSTRUCTION : FRAME AND FITTING MADE OF METAL WITH SILK-SCREEN PRINTED OPAL GLASS AND E27 CERAMIC LAMP-HOLDER . MANUFACTURER : "DOM" OR EQUIVALENT	
CH5	CHANDELIER HAVING 5X10W. LED LAMPS. CONSTRUCTION: MOUNTING IS MADE OF COPPER, SHADE IN ACIDIZED GLASS OR WHITE "SCAVO" GLASS POLYCARBONATE AND WITH REFLECTING PARABOLA . MANUFACTURER:	
E1	EMERGENCY EXIT LIGHT WITH 1X5W LED LAMP. (IP 40) WITHOUT BATTERY AND CHARGER. THE ARROW SHALL BE DETERMINED ACCORDING TO THE LOCATION. CONSTRUCTION : GALLERY MADE OF SELF - EXTINGUISHING POLYCARBONATE. FLAME RATING 850° C. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : "PRISMA" (FRENCH VERSION) OR EQUIVALENT	
E2	EMERGENCY EXIT LIGHTING FIXTURE WITH 8W LED LAMP WITHOUT BATTERY AND CHARGER. CONSTRUCTION : BODY MADE OF GALVANIZED SHEET STEEL COUTED WITH WHITE POUDER. DIFFUSER MADE OF OPAL PLASTIC WITH RED LETTERS. MANUFACTURER : "SAFT" OR EQUIVALENT	
G2	WATER PROTECTED SURFACE MOUNTED LIGHTING FIXTURE WITH 2X20W LED LAMPS. (IP 55) CONSTRUCTION : BODY MADE OF POLYESTER MOULDED IN GLASS FIBRE REINFORCED RESIN. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : "DIETAL" OR EQUIVALENT	
H1	WALL OR CEILING MOUNTED LIGHTING FITURE WITH 10W. LED LAMP. (IP 54) CONSTRUCTION: DIFFUSER MADE OF GLASS, INTERNALLY MAT, HAVING GALLERY, RING AND OR PROTECTIVE CASING MADE OF POLYCARBONATE AND WITH REFLECTING PARABOLA MADE OF ALUMINUM COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER: "PRISMA" OR EQUIVALENT	
H2	WALL BRACKET LIGHTING FIXTURE WITH 1X20W. LED LAMP LAMP. CONSTRUCTION: ALL METAL PARTS ARE MADE OF PRESSURE DIE-CAST ALUMINUM , FURANCE. BACKED. VERNISH BLACK HOUSING. (IP 43) MANUFACTURER:	
K1	SUSPENDED TYPE LIGHTING FIXTURE EQUIVALENT TO (1X150W. INCANDESCENT LAMP) BUT LED LAMP. CONSTRUCTION: LANTERN BODY IS MADE OF BRONZE HAVING (OPAL) GLASS. MANUFACTURER: FDP 100973	
L2	ANTI-CORROSIVE RECESSED MOUNTED LIGHTING FIXTURE (IP 44) WITH 2X20WLED LAMPS. CONSTRUCTION : BODY MADE OF ALUMINIUM SHEET. WITH ANTI-CORROSIVE AND WHITE POWDER PAINT AND HAVING OPAL DIFFUSERS. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : DEBRAS OR EQUIVALENT	
P1	FLOODLIGHT FOR ASYMMETRICAL LIGHT DISTRIBUTION (T: 20°×35°, L: 2X50°) WITH A LED LAMP EQUIVALENT TO (1000W,HPS LAMP) (IP 65). CONSTRUCTION: BODY MADE OF DIE CAST ALUMINUM ALLOY HOUSING THE ANODIZED PURE ALUMINUM REFLECTOR AND HAVING A SAFETY GLASS COMPLETE INCLUDING SWITCHGEAR AND ALL ACCESSORIES. MANUFACTURER: SIMILAR TO "SCHREDER" CAT. RD4 OR EQUIVALENT	
P2	FLOODLIGHT FOR NARROW BEAM ROUND ASYMMETRICAL LIGHT DISTRIBUTION (T°) WITH A LED LAMP EQUIVALENT TO (1000W, METAL HALIDE LAMP) (IP 65). CONSTRUCTION: SIMILAR TO "P1" MANUFACTURER: SIMILAR TO "SCHREDER" CAT. RD4	
P3	FLOODLIGHT FOR ASYMMETRICAL LIGHT DISTRIBUTION (T: 17°×23°, L: 2X45°) WITH A LED LAMP EQUIVALENT TO (400W, HPS LAMP) (IP 65). CONSTRUCTION: SIMILAR TO "P1" MANUFACTURER: SIMILAR TO "SCHREDER" CAT. RD3 OR EQUIVALENT	

TYPE	DESCRIPTION	ISOMETRIC VIEW
P4	SIMILAR TO "P3" BUT LED LAMP EQUIVALENT TO (250W, HPS LAMP) (IP 65).	
P5	FLOODLIGHT FOR NARROW (L: 2X8°) AND WIDE (T: 2X38°) BEAM AND SIMILAR TO (400W, METAL HALIDE LAMP) BUT LED LAMP. (IP 65) CONSTRUCTION: BODY MADE OF BLACK PAINTED DIE CAST ALUMINUM AND STAINLESS STEEL, HOUSING AN ANODIZED PURE ALUMINUM REFLECTOR AND A SAFETY GLASS WITH OPTICAL TEXTURE. COMPLETE INCLUDING SWITCHGEAR AND ALL ACCESSORIES. MANUFACTURER: "BEGA" OR EQUIVALENT	
P6	COMPACT, STRAIGHT FLOODLIGHT EQUIVALENT TO (70W, WHITE HPS LAMP) BUT LED (IP 55) CONSTRUCTION: BODY MADE OF CAST ALUMINUM ALLOY HOUSING HIGH-GRADE ALUMINUM REFLECTOR. BODY SHALL BE PAINTED WITH SAME COLOR AS ROOF TILES. MANUFACTURER: FAEL -JET 4 OR EQUIVALENT	
P7	FLOODLIGHT FOR ASYMMETRICAL LIGHT DISTRIBUTION EQUIVALENT TO (500W, HALOGEN LAMP) BUT LED (IP 55) CONSTRUCTION: BODY MADE OF INJECTION - MOULDED ALUMINIUM OF SAME COLOR AS ADJACENT FINISHES HOUSING DIMPLED ALUMINUM REFLECTOR AND THE LAMP WITH SAFETY GLASS AND ANTI-GLARE LOUVERS. COMPLETE INCLUDING ALL ACCESSORIES. MANUFACTURER: SIMILAR TO "MAZDA" CAT. SERIES CORMORAN OR EQUIVALENT	
P8	IN GROUND FLOODLIGHT WITH ASYMMETRICAL LIGHT DISTRIBUTION EQUIVALENT TO (125W MBF LAMP) BUT LED. (IP 65) CONSTRUCTION: BODY MADE OF STAINLESS STEEL HOUSING AN ANODIZED PURE ALUMINUM REFLECTOR AND HAVING A SAFETY GLASS FOR LOADS UP TO 1000KG, COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER: SIMILAR TO "BEGA" CAT. NO. 8021. OR EQUIVALENT	
P9	TWO UNDERWATER FLOODLIGHTS (IP 58, 0.5 BAR) WITH TWO 12V 25W PAR 36 LAMP, INHERENT LOW WATER CUT OFF AND 220/12V TRANSFORMER (IP 66, SAFETY CLASS II). CONSTRUCTION: BODY MADE OF STAINLESS STEEL, ELECTRO - POLISHED. 5M WATERPROOF CONNECTING CABLE 2X1.5MF BETWEEN THE LUMINAIRE AND TRANSFORMER. COMPLETE INCLUDING ALL ACCESSORIES. MANUFACTURER: "BEGA" CAT. NO. 9509	
R	LIGHTING FIXTURE WITH 2X20W LED LAMPS HAVING A REFLECTOR AND SUSPENDED FROM THE CEILING. CONSTRUCTION : BODY MADE OF QUALITY SHEET STEEL WITH WHITE STOVED ENAMEL FINISH. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : "DEBRAS" CAT. NO. 2402/36 OR EQUIVALENT	
S1	POLE MOUNTED LIGHTING FIXTURE WITH DOUBLE ARM EACH HAVING LED LAMP EQUIVALENT TO: (1X100W. HIGH PRESSURE SODIUM LAMP). POLE HEIGHT = 5.11 M. CONSTRUCTION: LANTERN BODY IS MADE OF BRONZE HAVING (OPAL) GLASS. MANUFACTURER: FDP 100850 FDP 100974 FDP 100974 OR EQUIVALENT	
S2	MANUFACTURER: FDP 100851 FDP 100974/2 OR EQUIVALENT	
S3	POLE MOUNTED LIGHTING FIXTURE WITH DOUBLE ARM EACH HAVING LED LAMP EQUIVALENT TO: (1X100W. HIGH PRESSURE SODIUM LAMP). POLE HEIGHT = 5.11 M. CONSTRUCTION: LANTERN BODY IS MADE OF BRONZE HAVING OPAL GLASS. MANUFACTURER: FDP 100848 FDP 100972 OR EQUIVALENT	
S4	POLE MOUNTED LIGHTING FIXTURE WITH DOUBLE ARM EACH HAVING LED LAMP EQUIVALENT TO: (1X75W. HIGH PRESSURE SODIUM LAMP). POLE HEIGHT = 4.11 M. CONSTRUCTION: LANTERN BODY IS MADE OF BRONZE HAVING OPAL GLASS. MANUFACTURER: FDP 100847 FDP 100972/2 OR EQUIVALENT	
U1	RECESSED DOWNLIGHT EQUIVALENT TO (HALOGEN A 150W HALOGEN) LAMP BUT LED LAMP CONSTRUCTION: BODY MADE OF STEEL WITH ALUMINIUM REFLECTOR. MANUFACTURER: "REGGIANI" CAT. NO. 6306 OR EQUIVALENT	
U2	ANTI-CORROSIVE RECESSED DOWNLIGHT EQUIVALENT TO (1X100W INCANDESCENT LAMP) BUT LED LAMP. CONSTRUCTION: BODY MADE OF ALUMINIUM SHEET WITH ANTI-CORROSIVE AND WHITE POWDER PAINT AND HAVING MICROGROOVE BLACK BAFFLES. MANUFACTURER: "REGGIANI" CAT. NO. 3423 OR EQUIVALENT	

TYPE	DESCRIPTION	ISOMETRIC VIEW
U3	RECESSED DOWNLIGHT EQUIVALENT TO (125W COMFORT MERCURY LAMP) BUT LED LAMP. CONSTRUCTION: BODY MADE OF STEEL WITH GOLD ALUMINIUM REFLECTOR. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER: "REGGIANI" CAT. NO. 3429 OR EQUIVALENT	
U4	DECORATIVE RECESSED OD DOWNLIGHT EQUIVALENT TO (85W OL (IP 64)) BUT LED LAMP CONSTRUCTION: LAQUERED ALUMINIUM HOUSING. CLEAR ACRYLIC COVER SEPARATE DIE-CAST ALUMINIUM GEAR BOX. WITH SYMMETRICAL ALUMINIUM REFLECTOR. MANUFACTURER: SIMILAR TO "PHILIPS" CAT. NO. KBS 100/085 OL OR APPROVED EQUAL.	
V1	RECESSED LIGHTING FIXTURE WITH 40W LED LAMPS MOUNTED ON FALSE CEILING HAVING EXPOSED GRID. FIXTURE IS TO BE SUPPLY WITH POWER FACTOR CORRECTION. (IP 20). CONSTRUCTION : BODY MADE OF SHEET STEEL, WITH WHITE STOVE ENAMEL FINISH HAVING ALUMINUM LOUVERS DIFFUSERS. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : "DEBRAS" CAT. NO. 8894/18 OR EQUIVALENT	
V2 = V3	RECESSED DOUBLE PARABOLA LIGHTING FIXTURE WITH 40W LED LAMPS MOUNTED ON FALSE CEILING HAVING EXPOSED GRID. FIXTURES IS TO BE SUPPLY WITH POWER FACTOR CORRECTION. (IP 20). CONSTRUCTION : BODY MADE OF QUALITY SHEET STEEL, OF TIGHT CONSTRUCTION TO PREVENT LIGHT LEAKAGE. HAVING DOUBLE PARABOLA DIFFUSER WHITE STOVE ENAMEL FINISH COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : "DEBRAS" CAT. NO. 8854/18 OR EQUIVALENT	
V3 = V2	SIMILAR TO "V2" BUT USED IN FALSE CEILING HAVING CONCEALED GRID.	
C1	CEILING MOUNTED LIGHTING FIXTURE EQUIVALENT TO (1X100W INCANDESCENT LAMP) BUT LED LAMP . (IP 44) CONSTRUCTION : BODY MADE OF PLASTIC METERIAL AND GLASS IN OPAL . MANUFACTURER : SIMILAR TO "RZB" CAT. NO. 20171.002 OR APPROVED EQUAL .	
E3	EMERGENCY EXIT LIGHTING FIXTURE, NON-MAINTAINED, 3HRS DURATION WITH 8W LED LAMP WITH BUILT-IN BATTERY AND CHARGER. (IP 55 MINIMUM) CONSTRUCTION : LUMINAIRE CONSISTS OF RIGID WHITE POLYESTER OR EPOXY COATED ZINTEC SHEET STEEL BOX, WITH A FIRE RESISTANT OPAL DOWNLIGHTER PANEL. MANUFACTURER : SIMILAR TO "MENVIER" CAT. NO. EXIT NM/3 MODIFIED TO MATCH THE DEGREE OF PROTECTION OR APPROVED EQUAL. TO BE SUPPLIED WITH EXIT SIGN.	
E4	EMERGENCY LIGHTING FIXTURE, NON-MAINTAINED, 3HRS DURATION WITH 8W LED LAMP WITH BUILT-IN BATTERY AND CHARGER. (IP 65) CONSTRUCTION : BODY & DIFFUSER ARE MOULDED FROM TOUGH AND SELF EXINGUISHING VANDAL RESISTANT POLYCARBONATE. MANUFACTURER : SIMILAR TO "MENVIER" CAT. NO. EXIT WINM/3 OR APPROVED EQUAL.	
G2	WATER PROTECTED SURFACE MOUNTED LIGHTING FIXTURE WITH 2X20W LED LAMPS. (IP 55) CONSTRUCTION : BODY MADE OF POLYESTER MOULDED IN GLASS FIBRE REINFORCED RESIN. COMPLETE INCLUDING CONTROL GEAR. MANUFACTURER : SIMILAR TO "DEBRAS" CAT. NO. 2862/36 OR APPROVED EQUAL.	

SYMBOLS	DESCRIPTION
MISCELLANEOUS SCHEMATIC SYMBOLS	
	POWER TRANSFORMER
G	GENERATOR
	WITHDRAWABLE CIRCUIT BREAKER E=ELECTRICALLY OPERATED
E	FIXED CIRCUIT BREAKER E=ELECTRICALLY OPERATED
M	FIXED CIRCUIT BREAKER M=MAGNETIC ONLY
	LOAD BREAK SWITCH
E M	TWO CONTACTORS ELECTRICALLY & MECHANICALLY INTERLOCKED
M	MECHANICAL INTERLOCK
C	CONTACTOR
	BATTERIES
	EARTH PIT
MAIN & SUB-DISTRIBUTION BOARD	
MDB/N	MAIN DISTRIBUTION BOARD (FREE STANDING TYPE) (N=REFERENCE)
SDP/N	SUB-DISTRIBUTION PANEL (FREE STANDING TYPE) (N=REFERENCE)
LDP/N	LIGHTING SUB-DISTRIBUTION PANEL (FREE STANDING TYPE) (N=REFERENCE)
PDP/N	POWER SUB-DISTRIBUTION PANEL (FREE STANDING TYPE) (N=REFERENCE)
SUP/N	SUB-DISTRIBUTION PANEL FED FROM UPS SUPPLY (FREE STANDING TYPE) (N=REFERENCE)
LIGHTING & POWER PANELBOARD	
REF. NO.	SURFACE MOUNTED
REF. NO.	RECESSED MOUNTED
MOTOR CONTROL CENTERS	
MCP/REF.	MOTOR CONTROL PANEL
MCC/REF.	MOTOR CONTROL CENTER
RACEWAYS,CABLE SUPPORTS AND RELATED ACCESSORIES	
	CABLE LADDER
	CABLE TRAY , PERFORATED TYPE
	HANDHOLE / MANHOLE
MISCELLANEOUS LIGHTING	
X NO. A	CEILING MOUNTED (X=FIXTURE TYPE , NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO. A	WALL MOUNTED (X=FIXTURE TYPE , NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO. A	FED FROM UPS SUPPLY (X=FIXTURE TYPE, NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO. A	FED FROM UPS SUPPLY (X=FIXTURE TYPE, NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
CH1	OUTLET FOR CHANDELIER RATED 1500 WATTS MAX.
CH2	OUTLET FOR CHANDELIER RATED 1000 WATTS MAX.
CH3	OUTLET FOR CHANDELIER RATED 500 WATTS MAX.
CH4	OUTLET FOR CHANDELIER RATED 2500 WATTS MAX.
CH5	OUTLET FOR CHANDELIER RATED 2500 WATTS MAX.
FLUORESCENT LIGHTING	
X NO. A	CEILING MOUNTED OR SUSPENDED (X=FIXTURE TYPE , NO. =CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO. A	FED FROM UPS SUPPLY (X=FIXTURE TYPE, NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO.	CEILING MOUNTED (X=FIXTURE TYPE , NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
X NO.	FED FROM UPS SUPPLY (X=FIXTURE TYPE, NO.=CIRCUIT NUMBER , A=RESPECTIVE CONTROLLING SWITCH)
CL	CLOSET LIGHTING
REF. NO.	SURFACE MOUNTED
REF. NO.	RECESSED MOUNTED
OUTDOOR LIGHTING	
	LUMINAIRE ON TOP OF A POLE WITH SINGLE ARM
	LUMINAIRE ON TOP OF A POLE WITH DOUBLE ARMS
	FLOODLIGHT
	IN-GROUND OR UNDERWATER LIGHTING FIXTURE
SWITCHES	
W.P E.P	ONE-WAY (W.P=WEATHER PROOF) (E.P=EXPLOSION PROOF)
A.B	ONE-WAY , TWO GANG (A,B=CONTROLS FIXTURES DENOTED A OR B)
	ONE-WAY , THREE GANG
	TWO-WAY , ONE GANG
	TWO-WAY , TWO GANG
	THREE-WAY (INTERMEDIATE) , ONE GANG
	THREE-WAY (INTERMEDIATE) , TWO GANG
	SET OF ON-OFF PUSH-BUTTON
XA NP=N	SWITCH DISCONNECTOR (SAFETY SWITCH) (X=AMP.RATING,NP=NUMBER OF POLES,NEUTRAL LINK)

SYMBOLS	DESCRIPTION
SOCKET OUTLET	
W.P H	SINGLE (W.P=WEATHER PROOF) (H=SEE ABBREVIATIONS)
	DUPLEX
	CONTROLLABLE SOCKET OUTLET
	FLOOR MOUNTED SOCKET OUTLET
XA	POWER (X=AMPERE RATING)
	FED FROM UPS
	THREE PHASE
BRANCH CIRCUITS IN CONDUITS/WIREWAYS	
	CABLE TRENCH
	EXPOSED CONDUCTOR/CONDUIT
ELECTRICAL OUTLET	
FC	CORD GRIP OUTLET AND SWITCH FOR FAN COIL UNIT
DO	SWITCHED ELECTRIC OUTLET
DO	ELECTRIC OUTLET
	FLOOR OUTLET (WATER TIGHT)
J	JUNCTION BOX

GENERAL NOTES

1- THE LAYOUT DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT OR SPECIALIST DRAWINGS OF OTHER TRADES.

2- CONDUCTORS FOR LIGHTING CIRCUITS SHALL BE 2.5MM & PROTECTED BY 15 AMP. CIRCUIT BREAKERS UNLESS OTHERWISE INDICATED .

3- CONDUCTORS FOR SINGLE PHASE SOCKET OUTLETS CIRCUITS SHALL BE 4MM & PROTECTED BY 20 AMP. CIRCUIT BREAKERS UNLESS OTHERWISE INDICATED .

4- UNLESS OTHERWISE SPECIFIED BY THE DECORATOR ALL LIGHTING SWITCHES AND SOCKET OUTLETS SHALL BE INSTALLED AT 130CM & 30CM ABOVE F.F.L. RESPECTIVELY. LIGHTING SWITCHES SHALL BE MOUNTED INSIDE THE ROOM ON THE SIDE OF THE DOOR HANDLE WITHIN 15 TO 20CM FROM DOOR FRAME UNLESS OTHEREWISE INDICATED .

5- ALL SWITCHES , SOCKET OUTLETS ,ETC.... SHALL BE INSTALLED WITH THEIR REQUIRED PLATES , REFER TO SPECIFICATIONS FOR DESCRIPTON & TYPE OF PLATES FOR EACH PARTICULAR APPLICATION .

6- ALL LIGHTING PANELBOARDS SHALL BE INSTALLED WITH TOP ENDS AT 180CM ADOVE F.F.L. UNLESS OTHERWISE INDICATED.

7- EARTH CONTINUITY CONDUCTORS ARE NOT INDICATED ON THE DRAWINGS , BUT SHALL BE RUN WITH ALL CIRCUITS IN ACCORDANCE WITH THE IEE REGULATIONS .

8- ALL DISCHARGE LAMPS LIGHTING FIXTURES SHALL BE PROVIDED WITH POWER FACTOR CORRECTION DEVICE.

9- DO NOT SCALE FROM THE LAYOUT DRAWINGS , WORK ACCORDING TO ARCHITECTURAL OR ELECTRICAL DETAILS UNLESS OTHERWISE INDICATED .

10- THE SIZE OF CONDUITS IS IN GENERAL NOT SHOWN ON THE DRAWINGS .THE SIZE OF ALL CONDUITS SHALL BE SELECTED IN ACCORDANCE WITH THE "REGULATIONS" AND AS A FUNCTION OF THE NUMBER & SIZE OF THE INDICATED CONDUCTORS , ALL CONDUITS SHALL BE AS SPECIFIED WITH A MINIMUM SIZE OF Ø 16MM UNLESS OTHERWISE INDICATED.

11- CONDUCTORS FOR SINGLE PHASE SOCKET OUTLETS CIRCUITS SHALL BE 4MM & PROTECTED BY 20 AMP. CIRCUIT BREAKERS UNLESS OTHERWISE INDICATED .

12- REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS LIST.

13- THE LAYOUT DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT OR SPECIALIST DRAWINGS OF OTHER TRADES.

14- ALL CONDUITS SHALL BE AS SPECIFIED WITH A MINIMUM SIZE OF Ø 16MM UNLESS OTHERWISE INDICATED .

15- ALL TELEPHONE OUTLETS SHALL BE INSTALLED AT 30CM ABOVE F.F.L. UNLESS OTHERWISE INDICATED. WALL TELEPHONE OUTLETS SHALL BE INSTALLED AT 150CM FROM F.F.L.

16- ALL TELEPHONE OUTLETS ,ETC.... SHALL BE INSTALLED WITH THEIR REQUIRED PLATES , REFER TO SPECIFICATIONS FOR DESCRIPTON & TYPE OF PLATES FOR EACH PARTICULAR APPLICATION .

ABBREVIATIONS :

MDB/	MAIN DISTRIBUTION BOARD
DP/	DISTRIBUTION PANEL
LP/	LIGHTING PANELBOARD
PP/	POWER PANELBOARD
MCC/	MOTOR CONTROL CENTER
MCP/	MOTOR CONTROL PANEL
LCP/	LIGHTING CONTROL PANEL
#	CIRCUIT NO.
F.F.L.	FINISHED FLOOR LEVEL
TC/	TELEPHONE TERMINAL CABINET
FC	FIRE CABINET
UPS	UNITERRUPTIBLE POWER SUPPLY
ATS	AUTOMATIC TRANSFER SWITCH.
ACS	AUTOMATIC CHANGE - OVER SWITCH.
W.P	WEATHER PROOF
H2	120CM ABOVE F.F.L.
SC	SHORT CIRCUIT
IC	INTERRUPTING CAPACITY

REMARKS :

ALL SELECTED LED TYPE FIXTURES SHALL MAINTAIN THE SAME LUX AS THE FIXTURES ALREADY INSTALLED.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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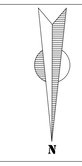
PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



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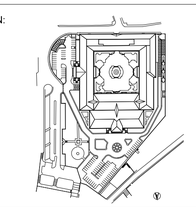

SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Electrical Legends-1 & General Notes Layout

SHEET NO.
L1202-CD-E-001-A1

Revision NO.
00

SYMBOLS	DESCRIPTION
MISCELLANEOUS SCHEMATIC SYMBOLS	
	BATTERIES
RACEWAYS,CABLE SUPPORTS AND RELATED ACCESSORIES	
	CABLE TRAY , PERFORATED TYPE
	HANDHOLE / MANHOLE
SOUND SYSTEM	
	SOUND RACK
	CEILING MOUNTED SPEAKER
	WALL MOUNTED SPEAKER
P	SOUND PROJECTOR
H	HORN LOUDSPEAKER
	SOUND COLUMN
J	JUNCTION BOX
JK	JACK
JK M	JACK USED FOR MICROPHONE
JK S	JACK USED FOR SPEAKER
TELEPHONE SYSTEM	
EPABX	ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE
MTC	MAIN TERMINAL CABINET
REF. NO.	TERMINAL CABINET
	OUTLET FOR DESK TYPE TELEPHONE SET
W	OUTLET FOR WALL TYPE TELEPHONE SET
S M	MANAGERIAL / SECRETARIAL OUTLET FOR DESK TYPE TELEPHONE SET
F	OUTLET FOR FAX
	FLOOR TELEPHONE OUTLET FOR DESK TYPE TELEPHONE SET
F	FLOOR FAX OUTLET

SYMBOLS	DESCRIPTION
FIRE ALARM SYSTEM	
F	MANUAL STATION
S	IONIZATION-TYPE SMOKE DETECTOR
O	OPTICAL-TYPE SMOKE DETECTOR
R	RATE OF RISE / FIXED TEMPERATURE HEAT DETECTOR
F	FLAME DETECTOR
F ,	FIRE ALARM BELL , HORN
	REMOTE INDICATOR
	END OF LINE RESISTOR
MFAC	FIRE ALARM CONTROL PANEL AND ANNUNCIATOR
M	ADDRESSABLE MONITOR MODULE
C	ADDRESSABLE CONTROL MODULE
FI	ADDRESSABLE FAULT ISOLATOR
COMPUTER SYSTEM	
CTC/N	COMPUTER DATA CABINET / N = SERIAL NUMBER
	COMPUTER DATA OUTLET
	FLOOR COMPUTER DATA OUTLET
MATV SYSTEM	
	TV ANTENNA OUTLET
Y3	3-WAY SPLITTER
Y2	2-WAY SPLITTER
	END-OF-LINE RESISTOR
	4-WAY TAP-OFF BOX
	3-WAY TAP-OFF BOX
	2-WAY TAP-OFF BOX
	AMPLIFIER
CCTV SYSTEM	
RN M	CAMERA , FIXED TYPE (M = TYPE OF LENS , RN = REFERENCE NUMBER)
	OUTDOOR CAMERA WITH SUNSHEILD
	INDOOR CAMERA WITH PAN & TILT
	OUTDOOR CAMERA WITH PAN & TILT & SUNSHEILD

GENERAL NOTES :

1- THE LAYOUT DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL RELEVANT OR SPECIALIST DRAWINGS OF OTHER TRADES.

2- ALL TELEPHONE OUTLETS SHALL BE INSTALLED AT 30CM ABOVE F.F.L. UNLESS OTHERWISE INDICATED. WALL TELEPHONE OUTLETS SHALL BE INSTALLED AT 150CM FROM F.F.L.

3- ALL TELEPHONE OUTLETS ,ETC.... SHALL BE INSTALLED WITH THEIR REQUIRED PLATES , REFER TO SPECIFICATIONS FOR DESCRIPTON & TYPE OF PLATES FOR EACH PARTICULAR APPLICATION .

OWNER NAME:

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Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

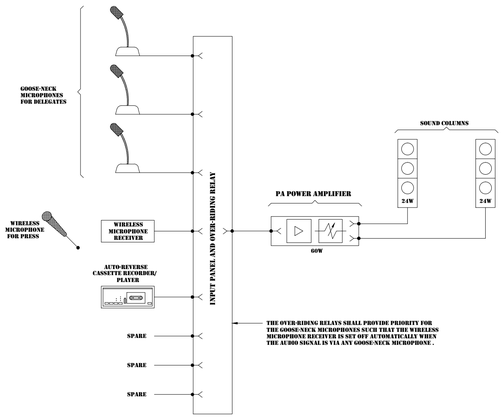
SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

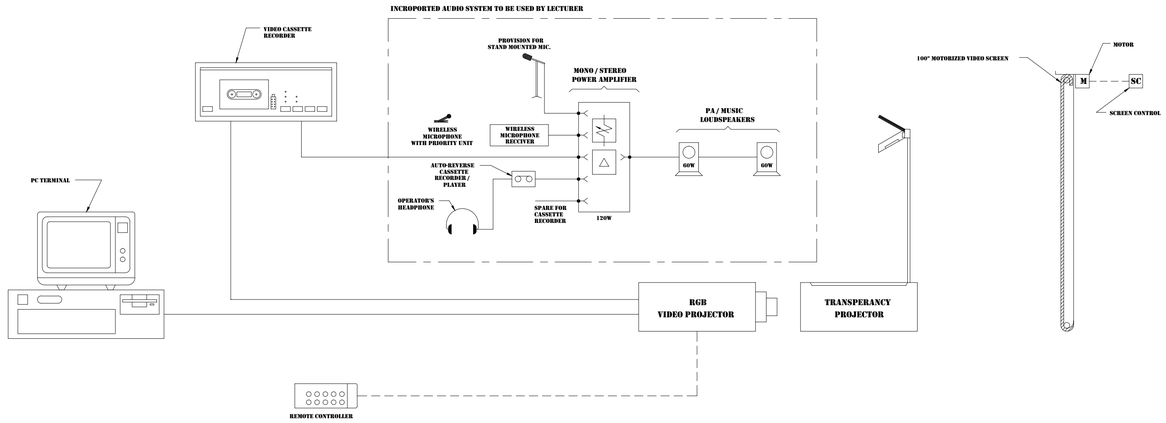
SHEET TITLE
Electrical Legends-2 & General Notes Layout

SHEET NO.
L1202-CD-E-002-A1

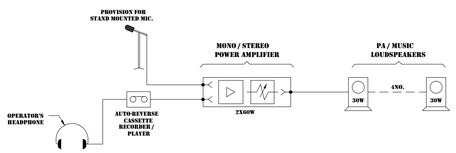
Revision NO.
00



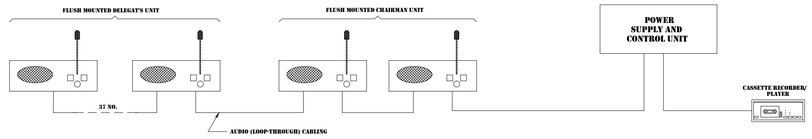
SOUND SYSTEM SCHEMATIC DIAGRAM AT PRESS ROOM



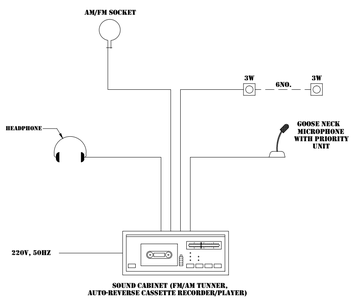
OVERHEAD PROJECTION SYSTEM SCHEMATIC DIAGRAM AT CONFERENCE ROOM



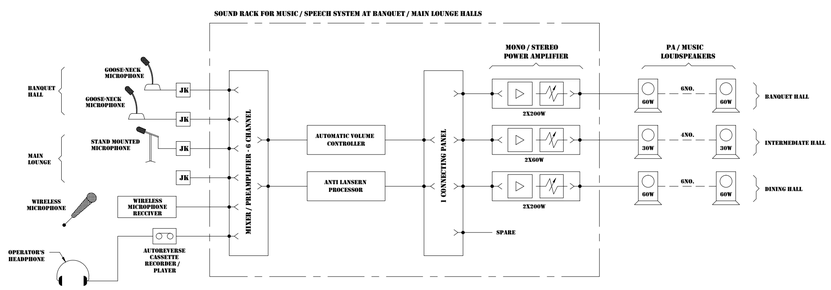
RECEPTION HALL



CONFERENCE SYSTEM SCHEMATIC DIAGRAM



SOUND SYSTEM SCHEMATIC DIAGRAM AT CAFETERIA



BANQUET / DINING HALLS SOUND SYSTEM SCHEMATIC DIAGRAM

OWNER NAME:

CLIENT:

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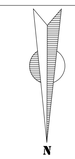
PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:



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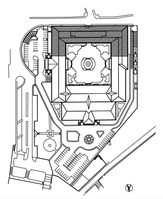


SCALE:
N.T.S.

DATE: May 2022

DRAWN BY:NAJ - MAK

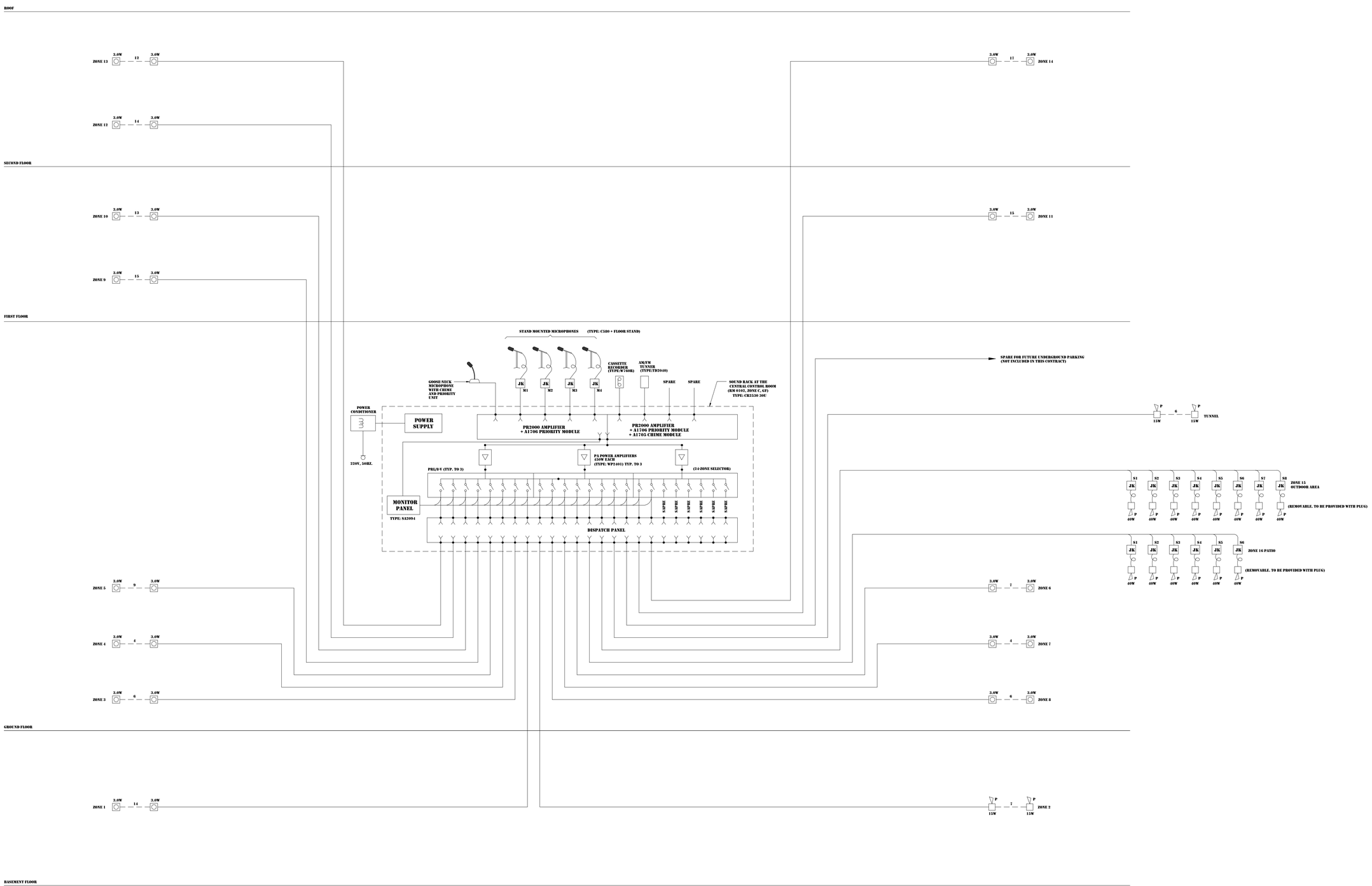
DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Low current sound system Diagram

SHEET NO.	Revision NO.
L1202-CD-E-003-A1	00



PUBLIC ADDRESS SCHEMATIC DIAGRAM

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

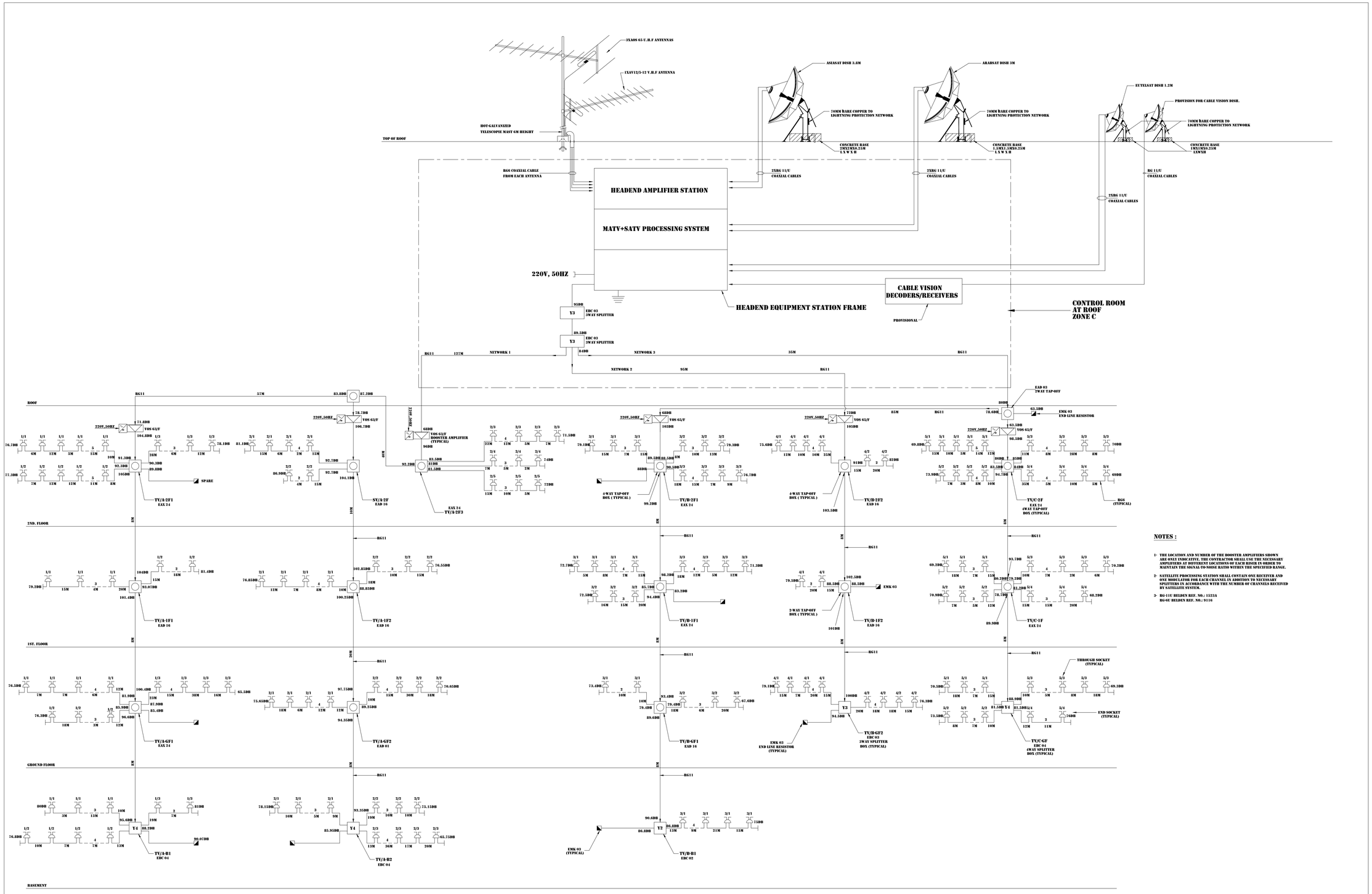
KEY PLAN:

SCALE:
N.T.S.

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Low current
Public Addres Diagram

SHEET NO.	Revision NO.
L1202-CD-E-004-A1	00



NOTES :

1- THE LOCATION AND NUMBER OF THE BOOSTER AMPLIFIERS SHOWN ARE ONLY INDICATIVE. THE CONTRACTOR SHALL USE THE NECESSARY AMPLIFIERS AT DIFFERENT LOCATIONS OF EACH RISER IN ORDER TO MAINTAIN THE SIGNAL-TO-NOISE RATIO WITHIN THE SPECIFIED RANGE.

2- SATELLITE PROCESSING STATION SHALL CONTAIN ONE RECEIVER AND ONE MODULATOR FOR EACH CHANNEL IN ADDITION TO NECESSARY SPLITTERS IN ACCORDANCE WITH THE NUMBER OF CHANNELS RECEIVED BY SATELLITE SYSTEM.

3- RG-11U BELDEN REF. NO.: 1523A
RG-6U BELDEN REF. NO.: 9116

OWNER NAME:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE: N.T.S.

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

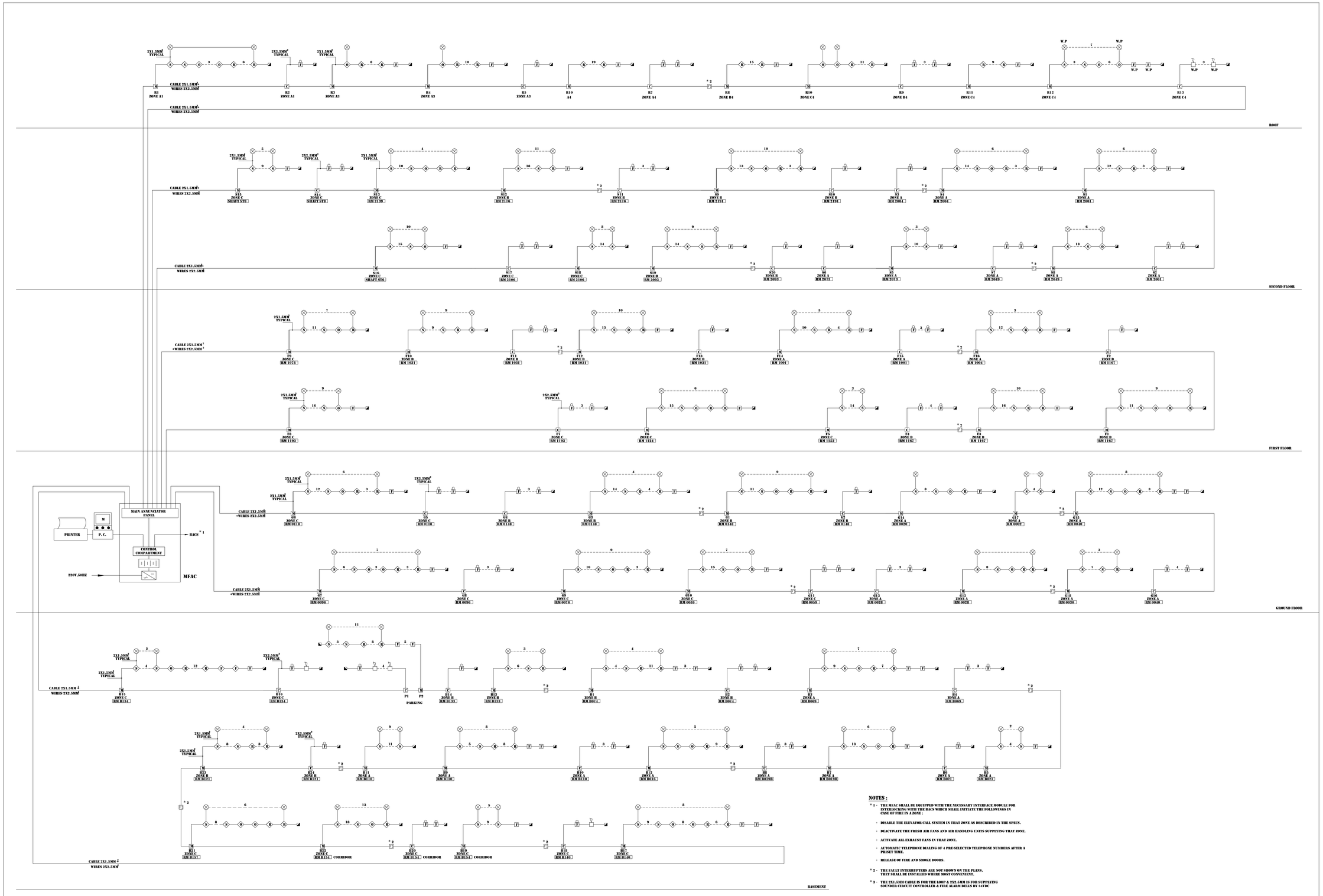
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Low current
MATV & SMATV Riser Diagram

SHEET NO. L1202-CD-E005-A1

Revision NO. 00



NOTES :

* 1 - THE MFAC SHALL BE EQUIPPED WITH THE NECESSARY INTERFACE MODULE FOR INTERLOCKING WITH THE RACS WHICH SHALL INITIATE THE FOLLOWINGS IN CASE OF FIRE IN A ZONE :
  - DISABLE THE ELEVATOR CALL SYSTEM IN THAT ZONE AS DESCRIBED IN THE SPECS.
  - DEACTIVATE THE FRESH AIR FANS AND AIR HANDLING UNITS SUPPLYING THAT ZONE.
  - ACTIVATE ALL EXHAUST FANS IN THAT ZONE.
  - AUTOMATIC TELEPHONE DIALING OF 4 PRE-SELECTED TELEPHONE NUMBERS AFTER A PRESET TIME.
  - RELEASE OF FIRE AND SMOKE DOORS.

* 2 - THE FAULT INTERRUPTERS ARE NOT SHOWN ON THE PLANS. THEY SHALL BE INSTALLED WHERE MOST CONVENIENT.

* 3 - THE 2X1.5MM CABLE IS FOR THE LOOP & 2X2.5MM IS FOR SUPPLYING SOUNDER CIRCUIT CONTROLLER & FIRE ALARM BELLS BY 24VDC

OWNER NAME:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE: N.T.S.

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

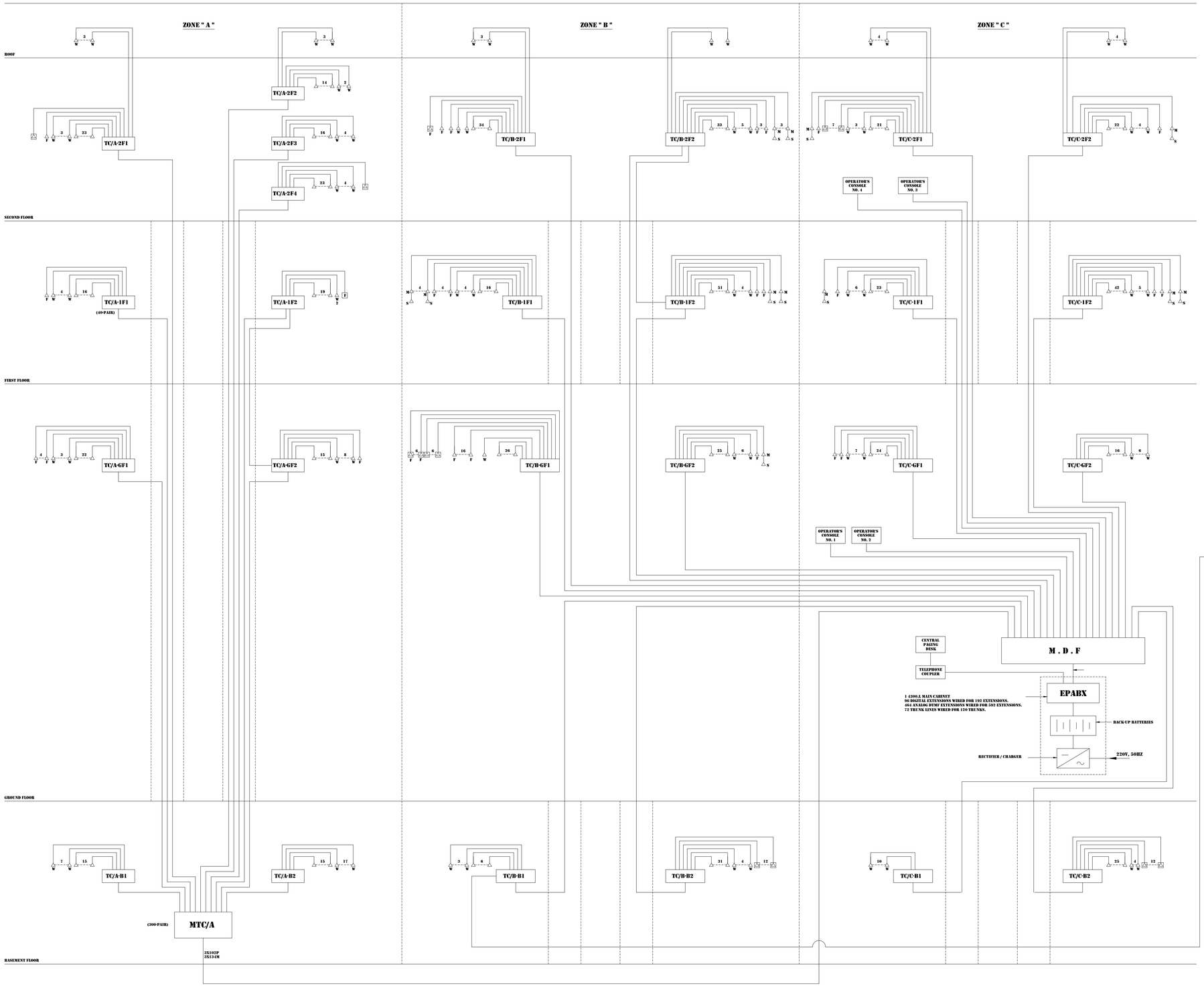
APPROVED BY :AC

SHEET TITLE

Low current
Fire alarm Riser Diagram

SHEET NO. L1202-CD-E006-A1

Revision NO. 00



TELEPHONE SCHEMATIC DIAGRAM

NOTES

1- THE EPABX SHALL BE PROGRAMMED SUCH THAT OPERATORS (1) & (2) ARE TO SERVE ZONES (B) & (C) WHEREAS OPERATOR (3) IS TO SERVE PRIME MINISTER'S EXTENSIONS / TRUNKS IN THE BUILDING AND OPERATOR (4) IS TO SERVE OTHER AREAS OF ZONE (A).

REMARK

1-THE TELEPONE SYSTEM IS UPGRADED TO A FULLY FUNCTIONAL AND OPERATIONAL IP TELEPHONE SYSTEM , CAT6A CABLES, THE TELEPHONE SCHEMATIC DIAGRAM REPRESENTS THE DISTRIBUTION OF OUTLETS IN ZONES AND FLOORS ONLY.

2- THE TELEPHONE SCHEMATIC DIAGRAM SHALL BE UPDATED DEPENDING ON THE UPGRADED SYSTEM AS PER SUPPLIER.

OWNER NAME:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

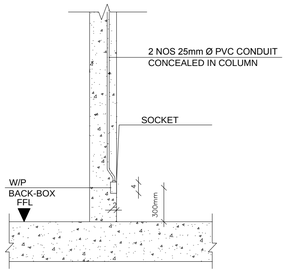
SCALE:
N.T.S.

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

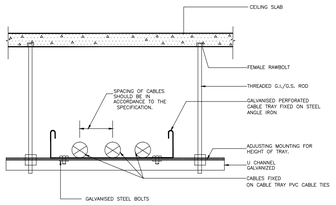
SHEET TITLE
Low current
Telephone Riser Diagram

SHEET NO.
L1202-CD-E007-A1

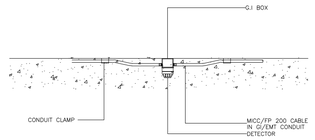
Revision NO.
00



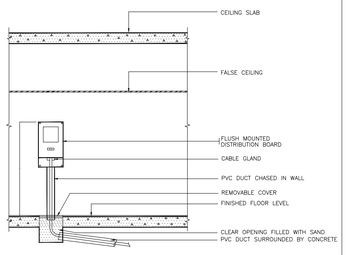
TYPICAL MOUNTING DETAIL SOCKET FULLY RECESSED



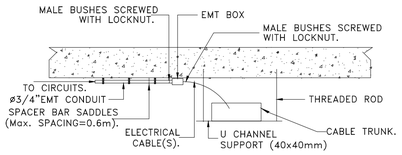
MOUNTING ARRANGEMENT OF CABLE TRAY SUSPENDED FROM CEILING SLAB.



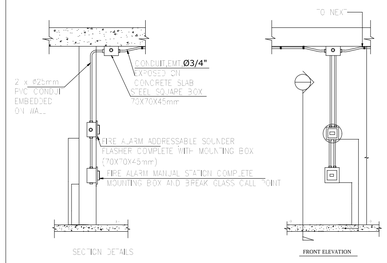
FIRE DETECTOR INSTALLATION IN CEILING SLAB



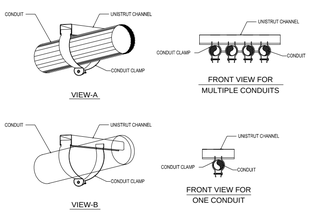
CONNECTION OF CABLE ON FLUSH DISTRIBUTION BOARD (BOTTOM ENTRY)



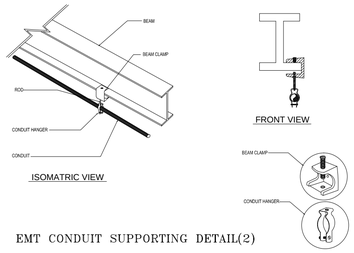
CONNECTION OF CIRCUITS TO CABLE TRAY INSTALLATION DETAILS



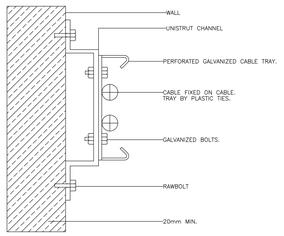
FIRE ALARM SOUNDER & MANUAL CALL STATION INSTALLATION DETAILS



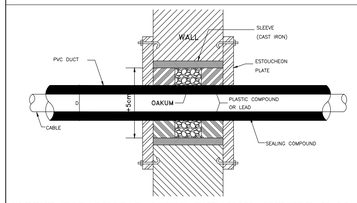
EMT CONDUIT SUPPORTING DETAIL(1)



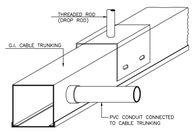
EMT CONDUIT SUPPORTING DETAIL(2)



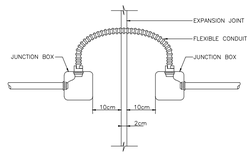
GALVANIZED CABLE TRAY FIXED FLAT ON VERTICAL WALL.



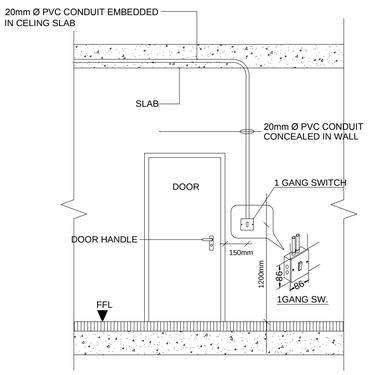
SLEEVE FOR DUCT PASSING THROUGH OUTSIDE WALL



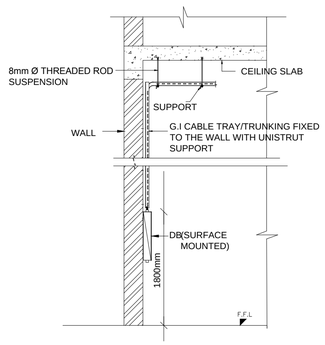
CABLE TRUNKING DETAILS



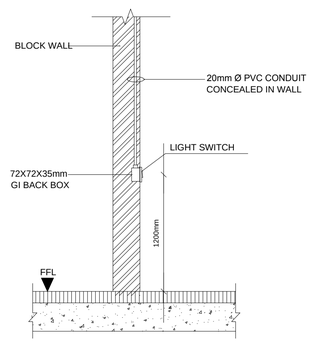
EXPOSED CONDUIT EXPANSION CONNECTION



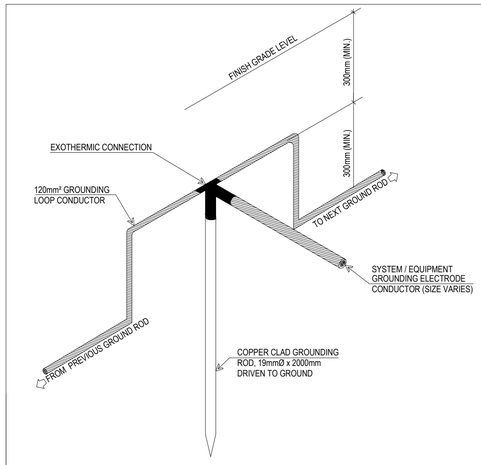
TYPICAL MOUNTING DETAIL OF LIGHT SWITCH



TYPICAL DB INSTALLATION AND CABLE ENTRY FROM TOP/BOTTOM TO SURFACE MOUNTED DB

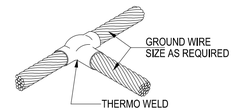


WALL SECTION



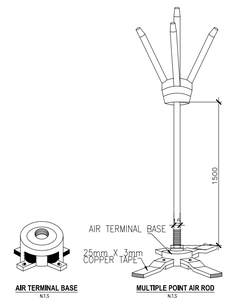
GROUND ROD WITH STRAIGHT THROUGH CABLES (W/O INSPECTION PIT)
SCALE : NTS

DETAIL 1

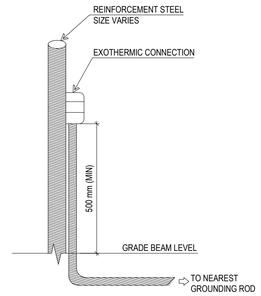


GROUND TEE CABLE

DETAIL 5

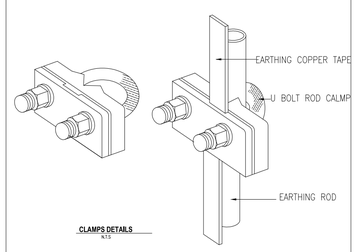


DETAIL 2

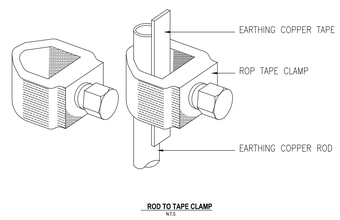


GROUNDING CONNECTION TO STEEL REBARS
NTS

DETAIL 3



DETAIL 6



DETAIL 7

OWNER NAME:

CLIENT:

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A.CHEHAB architects & engineers
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Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

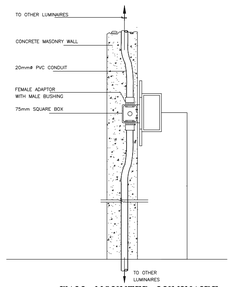
SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

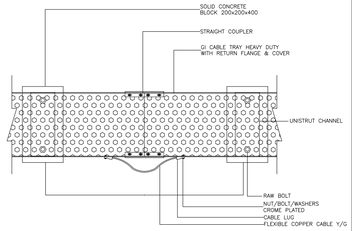
SHEET TITLE
Electrical Details-1

SHEET NO. L1202-CD-E-008-A1

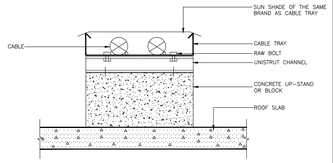
Revision NO. 00



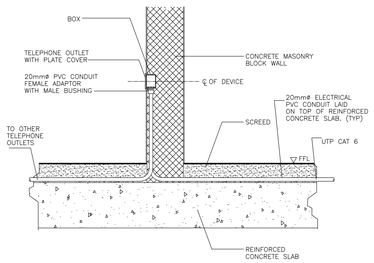
WALL MOUNTED LUMINAIRE



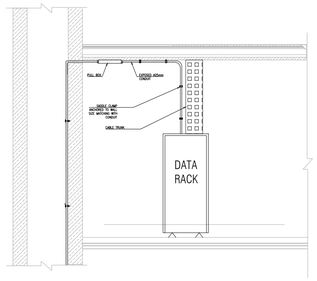
TYPICAL DETAIL OF CABLE TRAY JOINT.

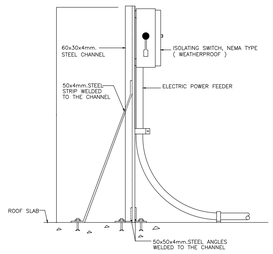


MOUNTING ARRANGEMENT OF CABLE TRAY ON ROOF.

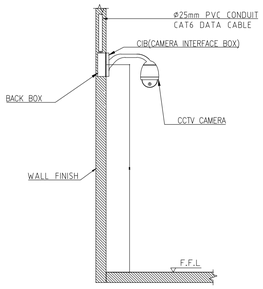


TYPICAL TELEPHONE OUTLET INSTALLATION DETAILS

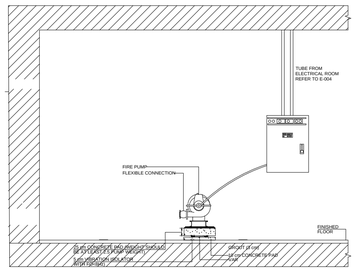




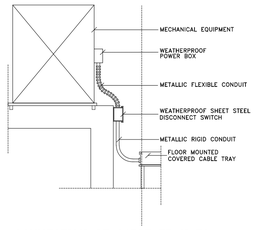
PEDESTAL MOUNTED ISOLATING SWITCH INSTALLATION DETAIL



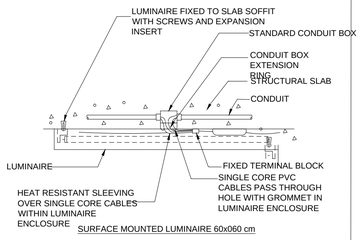
CCTV OUTDOOR CAMERA



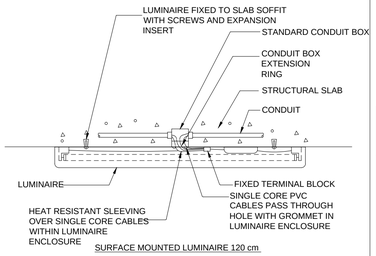
PUMP ELECTRICAL CONNECTION



CONNECTION OF CABLE TRAY TO MECHANICAL EQUIPMENT ON ROOF



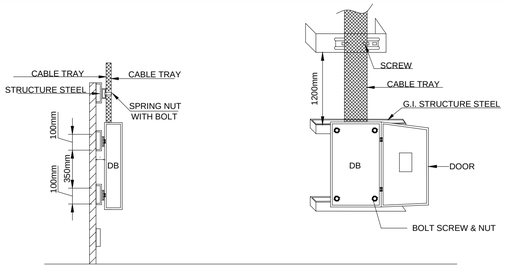
SURFACE MOUNTED LUMINAIRE 60x060 cm



SURFACE MOUNTED LUMINAIRE 120 cm

CONDUIT SIZES SHALL BE TABULATED BELOW AS MINIMUM REQUIREMENT

WIRE SIZE	CONDUIT SIZE				
	ø 20mm	ø 25mm	ø 32mm	ø 38mm	ø 50mm
	MAXIMUM NUMBER OF WIRES (OTHER THAN GROUNDING)				
2.5mm ^{2}	5	–	–	–	–
4mm ^{2}	4	5	–	–	–
6mm ^{2}	3	5	–	–	–
10mm ^{2}	2	3	5	–	–
16mm ^{2}	–	2	4	5	–
25mm ^{2}	–	–	3	4	–
35mm ^{2}	–	–	2	3	5
50mm ^{2}	–	–	–	–	4



SMDB'S & DB'S & ISOLATOR INSTALLATION

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

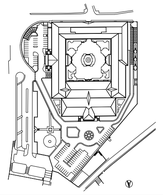
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



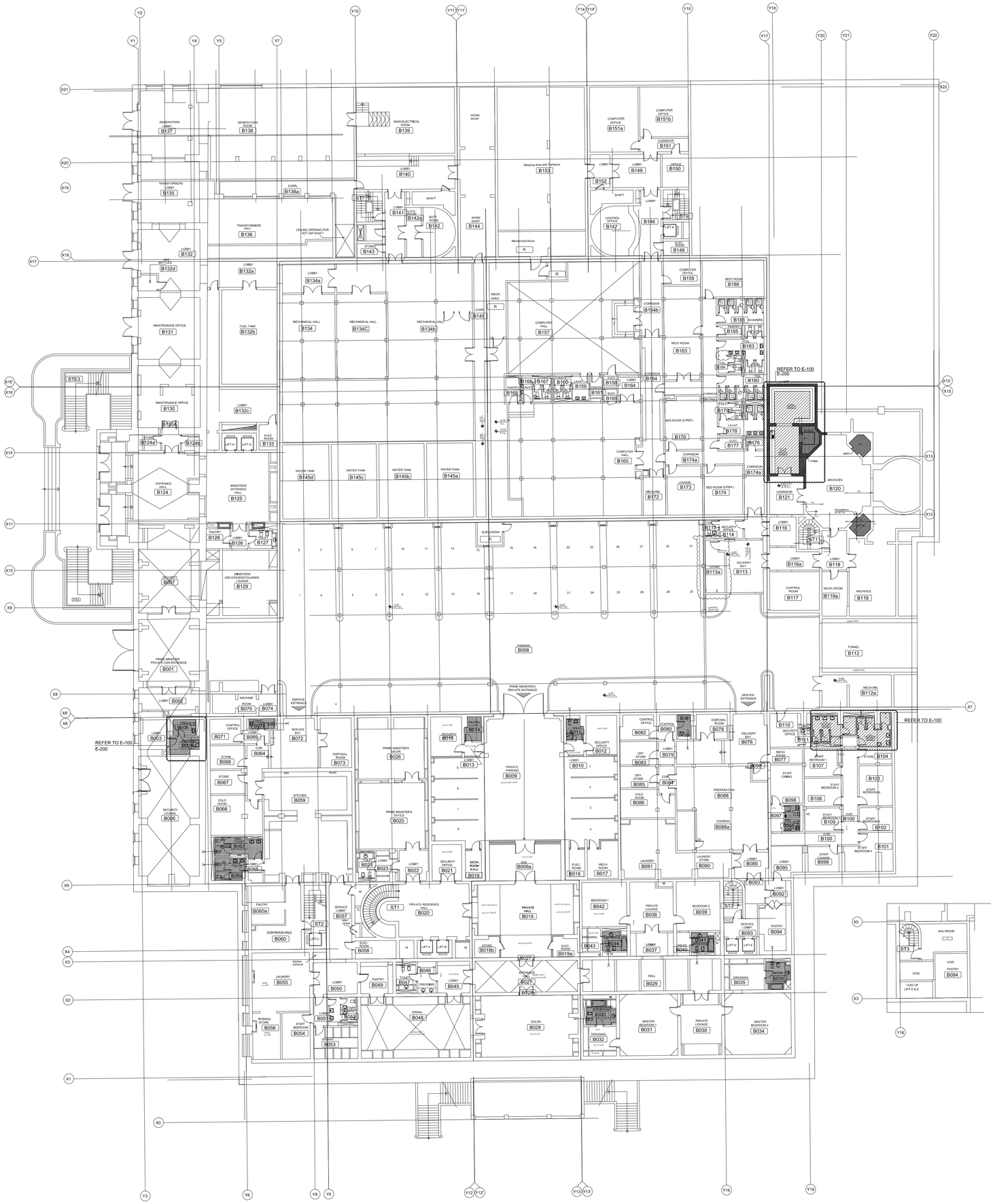
SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Electrical Details-2

SHEET NO.
L1202-CD-E-009-A1

Revision NO.
00



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Email: info@LDRS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

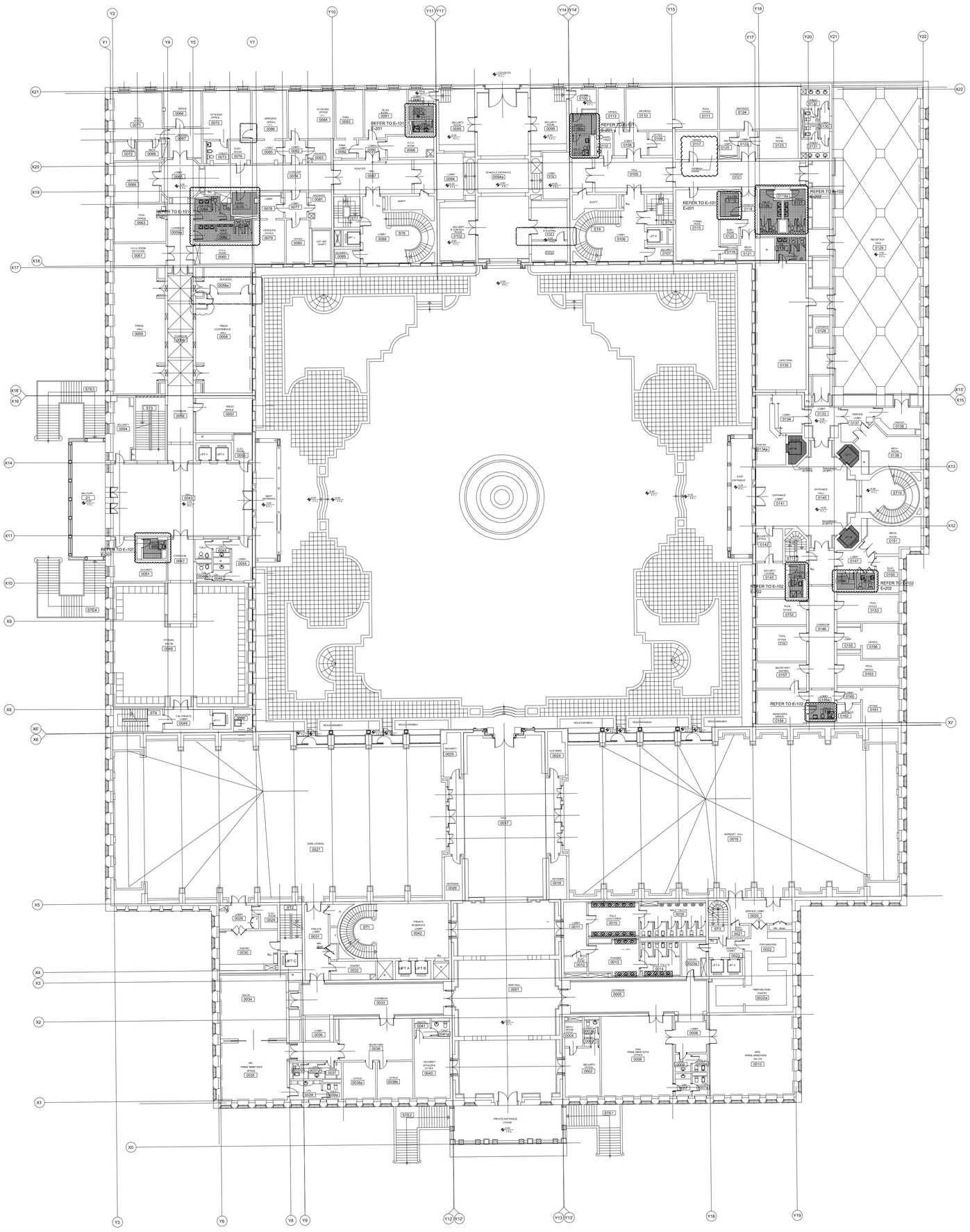
KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Key Plan

SHEET NO.	Revision NO.
L1202-CD-E-020-A1	00



OWNER NAME:

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Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

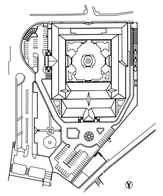
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



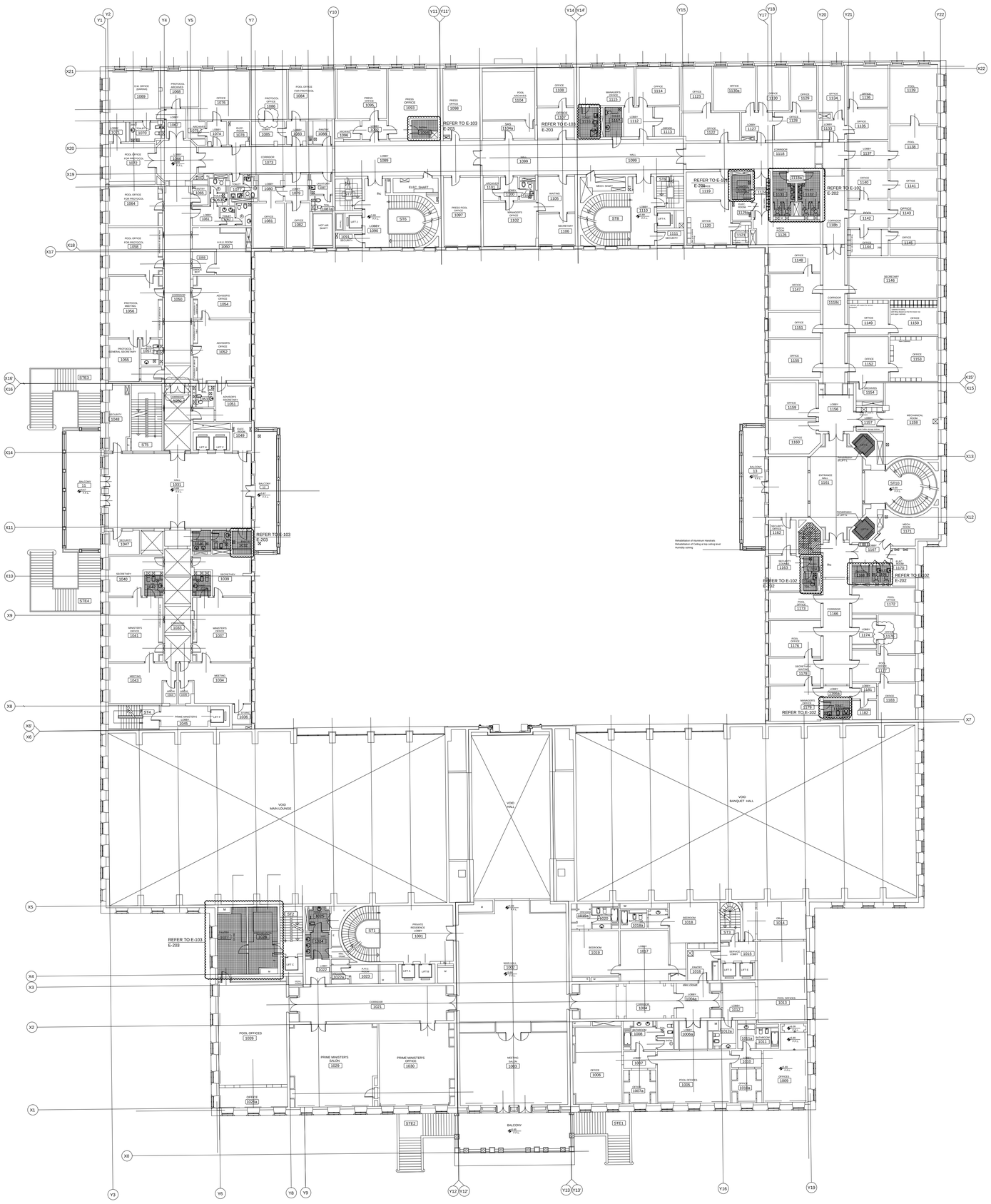
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Key Plan

SHEET NO.
L1202-CD-E-021-A1

Revision NO.
00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

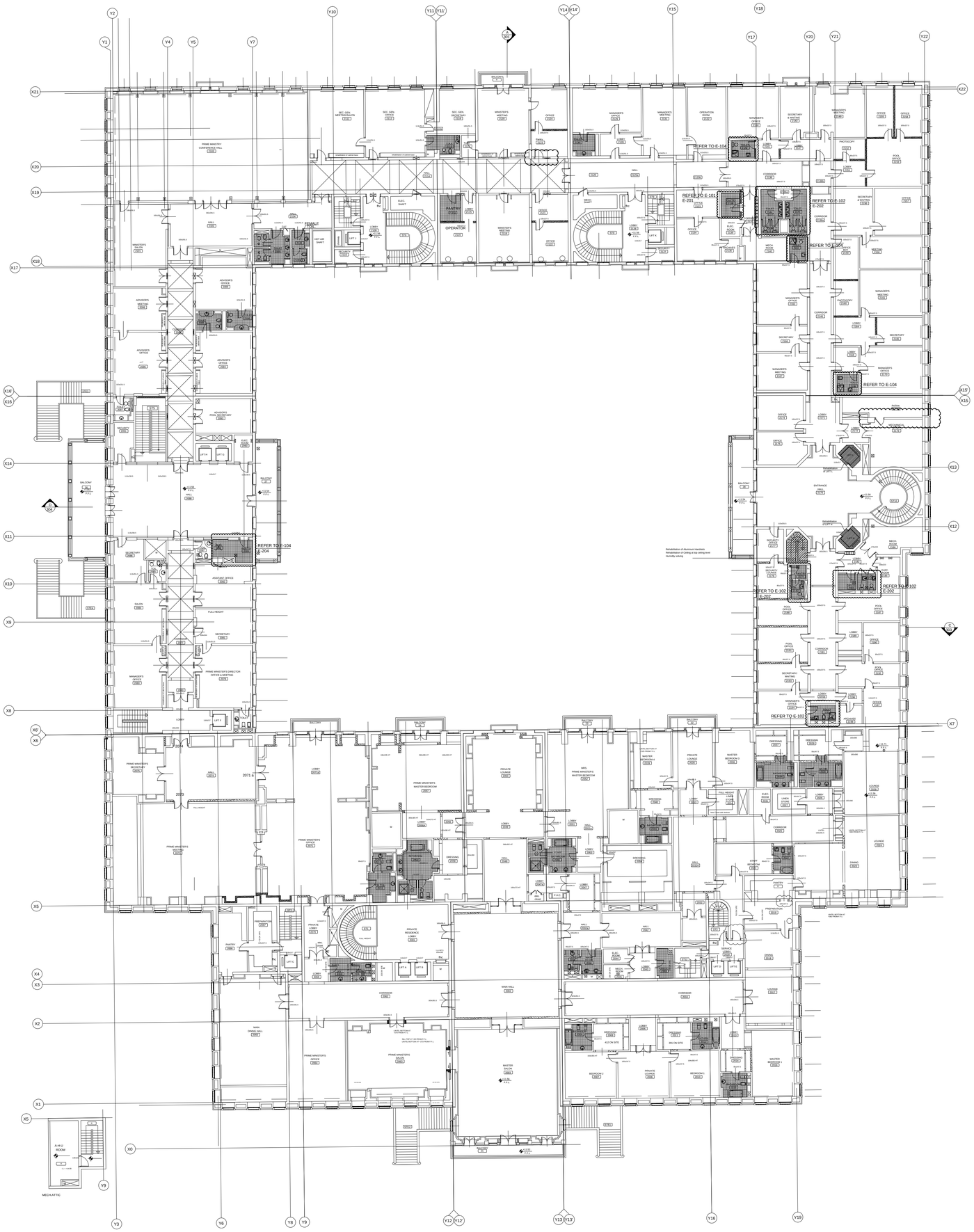
APPROVED BY :AC

SHEET TITLE

First Floor Key Plan

SHEET NO. L1202-CD-E-022-A1

Revision NO. 00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
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PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Second Floor Key Plan

SHEET NO. L1202-CD-E-023-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

MOTOR CONTROL CENTER			FEEDER REF.NO.	MOTOR								MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B.T/F		REF. No.	DESIGNATION	DATA No.OF PHASES	DATA POWER kW	DATA AMP.	BRANCH CIRCUIT TYPE	BRANCH CIRCUIT SIZE mm²	BRANCH CIRCUIT LENGTH m.	AMP/kVA	LOCATION	BRANCH CIRCUIT PROTECTION TYPE	BRANCH CIRCUIT PROTECTION TRIP AMP.	BRANCH CIRCUIT PROTECTION FRAME AMP.	LOCATION	CONTROL GEAR TYPE	CONTROL GEAR MANUAL CONTROL M.C.C.	CONTROL GEAR MANUAL CONTROL REMOTE	CONTROL GEAR INDICATING LAMP M.C.C.	CONTROL GEAR INTERLOCK & AUTOMATIC CONTROL	
EMCC / A - R1																							
EMCC/ A-R1	ROOF	400/400										234/154											
				AHU-F5	AIR HANDLING UNIT	3	7.5	15.5	PVC/PVC/CU	3C,10 + 1C,10 E			MCC/A-R1	M.C.C.B.	40	100	MCC/A-R1	D.O.L.	++ *	EMCC/ A-GF1	**	-	
				AHU-S10	AIR HANDLING UNIT	3	12.6	24	PVC/PVC/CU	3C,10 + 1C,10E			MCC/A-R1	M.C.C.B.	40	100	MCC/A-R1	⅄/△	++ *	EMCC/ A-GF1	**	-	
				AHU-S11	AIR HANDLING UNIT	3	15	30	PVC/PVC/CU	3C,16 + 1C,16 E			MCC/A-R1	M.C.C.B.	60	100	MCC/A-R1	⅄/△	++ *	EMCC/ A-GF1	**	-	
				AHU-S13	AIR HANDLING UNIT	3	22	43	PVC/PVC/CU	3C,16 + 1C,16 E			MCC/A-R1	M.C.C.B.	60	100	MCC/A-R1	⅄/△	++ o	EMCC/ A-GF1	**	-	
				EF-1	EXHAUST FAN	3	3.85	8.85	PVC/PVC/CU	3C,4 + 1C,4E			MCC/A-R1	M.C.C.B.	20	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FAF-9
				EF-2	EXHAUST FAN	3	3.85	8.85	PVC/PVC/CU	3C,4 + 1C,4E			MCC/A-R1	M.C.C.B.	20	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FAF-10
				EF-3	EXHAUST FAN	3	1.54	3.6	PVC/PVC/CU	3C,2.5 + 1C,2.5E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-4	EXHAUST FAN	3	077	2	PVC/PVC/CU	3C,2.5 + 1C,2.5E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-5	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FAF-5
				EF-6	EXHAUST FAN	1	0.25	2	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-7	EXHAUST FAN	1	0.2	2	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-8	EXHAUST FAN	1	0.38	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-9	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-10	EXHAUST FAN	3	1.15	2.7	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-11	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FAF-3
				EF-12	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-13	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-14	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				EF-17	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-G5
				EF-18	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,6 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-G4
				EF-19	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-S13
				EF-20	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-S11
				EF-21	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-F2
				FA-AHU-1	FRESH AIR - AIR HANDLING UNIT	1	0.5	2.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				FA-AHU-2	FRESH AIR - AIR HANDLING UNIT	1	0.75	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				FAF-3	FRESH AIR FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH EF-11
				FA-AHU-3	FRESH AIR - AIR HANDLING UNIT	3	0.75	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				FAF-5	FRESH AIR FAN	3	1.15	2.7	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH EF-5
				FA-AHU-4	FRESH AIR - AIR HANDLING UNIT	1	0.75	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				FA-AHU-5	FRESH AIR - AIR HANDLING UNIT	3	1.1	2.6	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				FA-AHU-6	FRESH AIR - AIR HANDLING UNIT	3	1.1	2.6	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-			MCC/A-R1	M.C.C.B.	15	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-			MCC/A-R1	M.C.C.B.	25	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-			MCC/A-R1	M.C.C.B.	40	100	MCC/A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
				EF-65	SMOKE EXHAUST FAN	3	15.4	31	PVC/PVC/CU	3C,10 + 1C,10E			MCC/A-R1	M.C.C.B.	40	100	MCC/A-R1	⅄/△	++ o o	EMCC/ A-GF1	**	-	
EMCC / A - R2																							
EMCC/ A-R2	ROOF	200/250										163/107											
				AHU-G4	AIR HANDLING UNIT	3	33	60	PVC/PVC/CU	3C,35 + 1C,16 E			EMCC/ A-R2	M.C.C.B.	100	100	EMCC/ A-R2	⅄/△	++ *	EMCC/ A-GF1	**	-	
				AHU-G5	AIR HANDLING UNIT	3	33	60	PVC/PVC/CU	3C,35 + 1C,16 E			EMCC/ A-R2	M.C.C.B.	100	100	EMCC/ A-R2	⅄/△	++ *	EMCC/ A-GF1	**	-	
				AHU-G6	AIR HANDLING UNIT	3	5.5	11.5	PVC/PVC/CU	3C,6 + 1C,6 E			EMCC/ A-R2	M.C.C.B.	25	100	EMCC/ A-R2	D.O.L.	++ *	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ A-R2	M.C.C.B.	100	100	EMCC/ A-R2	D.O.L.	++ *	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ A-R2	M.C.C.B.	25	100	EMCC/ A-R2	D.O.L.	++ *	EMCC/ A-GF1	**	-	
				EF-66	SMOKE EXHAUST FAN	3	15.4	31	PVC/PVC/CU	3C,10 + 1C,10E			EMCC/ A-R2	M.C.C.B.	40	100	EMCC/ A-R2	⅄/△	++ *	EMCC/ A-GF1	**	-	
EMCC / B - R1																							
EMCC/ B-R1	ROOF	60/100										24/16											
				FA-AHU-8	FRESH AIR - AIR HANDLING UNIT	3	1.5	3.5	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				FA-AHU-9	FRESH AIR - AIR HANDLING UNIT	3	3.7	8.5	PVC/PVC/CU	3C,6 + 1C,6 E			EMCC/ B-R1	M.C.C.B.	25	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-28	EXHAUST FAN	1	0.20	2.2	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-29	EXHAUST FAN	1	0.20	2.2	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-30	EXHAUST FAN	1	0.25	2.2	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-31	EXHAUST FAN	1	0.38	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-32	EXHAUST FAN	3	0.58	2.2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				EF-33	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o	MCC/ B-GF1	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ B-R1	M.C.C.B.	15	100	EMCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ B-R1	M.C.C.B.	25	100	EMCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	-	

NOTES

1- SIZING OF PROTECTIVE EARTH CONDUCTORS IS TO BE AS PER IEE REGULATIONS .

2- A DISCONNECTING MEAN SHALL BE INSTALLED IN SIGHT OF THE MOTOR LOCATION IF THE MCC IS NOT .

3- ALL MCCB'S USED IN MOTOR CIRCUITS ARE USED FOR SHORT CIRCUIT AND GROUND FAULT PROTECTION ONLY. THE OVERLOAD PROTECTION IN EACH OF THE MOTOR CIRCUITS SHALL BE PROVIDED AS PER THE IEE REGULATIONS.

LEGEND

* : INDICATES A SET OF ON-OFF PUSH BUTTONS AS PER SPECIFICATION.

** : INDICATES A SET OF RED-GREEN-AMBER (ON-OFF-OVERLOAD) PILOT LIGHTS.

*** : SEE REMARKS.

o : INDICATES ON-OFF SWITCH.

o o : INDICATES A SELECTOR SWITCH AUTO/OFF/MAN.

o o o : IN CONTROL PANEL NEAR EQUIPMENT .

\+ : REMOTE CONTROL FROM SPACE

++ : INDICATES A SELECTOR SWITCH LOCAL/REMOTE

+++ : 2 PILOT LIGHTS INDICATING THE STATUS OF LOCAL/REMOTE SWITCH IN THE REMOTE CONTROL PANEL

XLPE/PVC/CU : XLPE INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

PVC/PVC/CU : PVC INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

M.C.C.B :MOULDED CASE CIRCUIT BREAKER.

D.O.L. :DIRECT ON-LINE STARTER.

⅄/△ :STAR-DELTA STARTER.

T/F :TRIP/FRAME

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

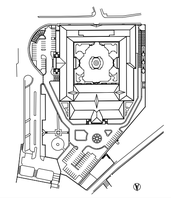
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
MCC Panel Schedule 1/7

SHEET NO. L1202-CD-E-030-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

MOTOR CONTROL CENTER			FEEDER REF.NO.	MOTOR									MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B. T/F		REF. No.	DESIGNATION	DATA: No.OF PHASES	DATA: POWER kW	DATA: AMP.	BRANCH CIRCUIT: TYPE	BRANCH CIRCUIT: SIZE mm^2	BRANCH CIRCUIT: LENGTH m.		AMP/kVA	LOCATION	BRANCH CIRCUIT PROTECTION: TYPE	BRANCH CIRCUIT PROTECTION: TRIP AMP.	BRANCH CIRCUIT PROTECTION: FRAME AMP.	LOCATION	TYPE	CONTROL GEAR: MANUAL CONTROL M.C.C.	CONTROL GEAR: MANUAL CONTROL REMOTE	CONTROL GEAR: INDICATING LAMP M.C.C.	CONTROL GEAR: INTERLOCK & AUTOMATIC CONTROL	
EMCC / C - R3																								
EMCC/ C-R3	ROOF	200/250											113/75											
				CHWP-1	PRIMARY CHILLED WATER PUMP	3	11	22.5	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
				CHWP-2	PRIMARY CHILLED WATER PUMP	3	11	22.5	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
				CHWP-3	PRIMARY CHILLED WATER PUMP	3	11	22.5	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	3 PUMPS ONLY WILL OPERATE ON EMERGENCY
				CHWP-4	PRIMARY CHILLED WATER PUMP	3	11	22.5	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
				CHWP-5	PRIMARY CHILLED WATER PUMP	3	11	22.5	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
				-	SPARE	-	-	-	-	-	-			EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
				-	SPARE	-	-	-	-	-	-			EMCC/ C-R3	M.C.C.B.	60	100	EMCC/ C-R3	⅄/△	++ o o	-	**	***	
MCC / A - R1																								WINTER OPERATION ONLY
MCC/ A-R1	ROOF	400/400											422/279											
				H-1	HUMIDIFIER	3	9	20	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	40	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-1
				H-2	HUMIDIFIER	3	6	12.5	PVC/PVC/CU	3C,6 + 1C,6E				MCC/A-R1	M.C.C.B.	25	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-2
				H-4	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	50	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-3
				H-6	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	50	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-4
				H-7	HUMIDIFIER	3	16	32	PVC/PVC/CU	3C,16 + 1C,16E				MCC/A-R1	M.C.C.B.	60	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-5
				H-8	HUMIDIFIER	3	16	32	PVC/PVC/CU	3C,16 + 1C,16E				MCC/A-R1	M.C.C.B.	60	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-6
				H-22	HUMIDIFIER	3	4	9	PVC/PVC/CU	3C,4 + 1C,4E				MCC/A-R1	M.C.C.B.	20	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-S10
				H-23	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	50	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-S11
				H-24	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	50	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-S13
				H-27	HUMIDIFIER	3	3	6.6	PVC/PVC/CU	3C,2.5 + 1C,2.5E				MCC/A-R1	M.C.C.B.	15	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-F5
				H-28	HUMIDIFIER	3	50	95	PVC/PVC/CU	3C,50 + 1C,25E				MCC/A-R1	M.C.C.B.	100	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-G4
				H-29	HUMIDIFIER	3	50	95	PVC/PVC/CU	3C,50 + 1C,25E				MCC/A-R1	M.C.C.B.	100	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-G5
				H-30	HUMIDIFIER	3	9	20	PVC/PVC/CU	3C,10 + 1C,10E				MCC/A-R1	M.C.C.B.	40	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	***	TO BE INTERLOCKED WITH AHU-G6
				-	SPARE	-	-	-	-	-				MCC/A-R1	M.C.C.B.	15	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-				MCC/A-R1	M.C.C.B.	25	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
				-	SPARE	-	-	-	-	-				MCC/A-R1	M.C.C.B.	80	100	MCC/ A-R1	D.O.L.	++ o o	EMCC/ A-GF1	**	-	
MCC / B - R1																								WINTER OPERATION ONLY
EMCC/ B-R1	ROOF	250/250											142/94											
				H-10	HUMIDIFIER	3	24	47	PVC/PVC/CU	3C,16 + 1C,16E				MCC/B-R1	M.C.C.B.	60	100	MCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-8
				H-11	HUMIDIFIER	3	50	95	PVC/PVC/CU	3C,50 + 1C,25E				MCC/B-R1	M.C.C.B.	100	100	MCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-9
				-	SPARE	-	-	-	-	-				MCC/B-R1	M.C.C.B.	60	100	MCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	-	
				-	SPARE	-	-	-	-	-				MCC/B-R1	M.C.C.B.	40	100	MCC/ B-R1	D.O.L.	++ o o	MCC/ B-GF1	**	-	
MCC / C - R1																								WINTER OPERATION ONLY
MCC/C-R1	ROOF	400/400											374/247											
				H-12	HUMIDIFIER	3	48	89	PVC/PVC/CU	3C,35 + 1C,16E				MCC/C-R1	M.C.C.B.	100	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-10
				H-13	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/C-R1	M.C.C.B.	40	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-11
				H-14	HUMIDIFIER	3	75	142	PVC/PVC/CU	3C,95 + 1C,50E				MCC/C-R1	M.C.C.B.	160	160	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-12
				H-15	HUMIDIFIER	3	3	6.6	PVC/PVC/CU	3C,2.5 + 1C,2.5E				MCC/C-R1	M.C.C.B.	15	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH FA-AHU-13
				H-25	HUMIDIFIER	3	32	61	PVC/PVC/CU	3C,35 + 1C,25E				MCC/C-R1	M.C.C.B.	80	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH AHU-S17
				H-26	HUMIDIFIER	3	6	12.5	PVC/PVC/CU	3C,6 + 1C,6E				MCC/C-R1	M.C.C.B.	25	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	***	TO BE INTERLOCKED WITH AHU-S18
				-	SPARE	-	-	-	-	-				MCC/C-R1	M.C.C.B.	15	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	-	
				-	SPARE	-	-	-	-	-				MCC/C-R1	M.C.C.B.	40	100	MCC/ C-R1	D.O.L.	++ o o	MCC/ C-GF1	**	-	
				H-31	HUMIDIFIER	3	12	25	PVC/PVC/CU	3C,10 + 1C,10E				MCC/C-R1	M.C.C.B.	40	100	MCC/ C-R1	D.O.L.	++ o o			***	
				H-32	HUMIDIFIER	3	6	12.5	PVC/PVC/CU	3C,6 + 1C,6E				MCC/C-R1	M.C.C.B.	25	100	MCC/ C-R1	D.O.L.	++ o o			***	

NOTES

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LEGEND

* : INDICATES A SET OF ON-OFF PUSH BUTTONS AS PER SPECIFICATION.

** : INDICATES A SET OF RED-GREEN-AMBER (ON-OFF-OVERLOAD) PILOT LIGHTS.

*** : SEE REMARKS.

o : INDICATES ON-OFF SWITCH.

o o : INDICATES A SELECTOR SWITCH AUTO/OFF/MAN.

o o o : IN CONTROL PANEL NEAR EQUIPMENT .

\+ : REMOTE CONTROL FROM SPACE

++ : INDICATES A SELECTOR SWITCH LOCAL/REMOTE

+++ : 2 PILOT LIGHTS INDICATING THE STATUS OF LOCAL/REMOTE SWITCH IN THE REMOTE CONTROL PANEL

XLPE/PVC/CU : XLPE INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

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D.O.L. : DIRECT ON-LINE STARTER.

⅄/△ : STAR-DELTA STARTER.

T/F : TRIP/FRAME

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

ACHEHABarchitects & engineers

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PROJECT NAME: REHABILITATION OF GRAND SERAIL

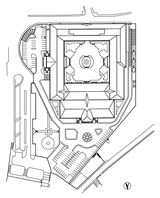
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE

NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

MCC Panel Schedule 2/7

SHEET NO. L1202-CD-E-031-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

MOTOR CONTROL CENTER			FEEDER REF.NO.	MOTOR										MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B, T/F		REF. No.	DESIGNATION	DATA: No.OF PHASES	DATA: POWER kW	DATA: AMP.	BRANCH CIRCUIT: TYPE	BRANCH CIRCUIT: SIZE mm²	BRANCH CIRCUIT: LENGTH m.		AMP/kVA	LOCATION	BRANCH CIRCUIT PROTECTION: TYPE	BRANCH CIRCUIT PROTECTION: TRIP AMP.	BRANCH CIRCUIT PROTECTION: FRAME AMP.	LOCATION	CONTROL GEAR: TYPE	CONTROL GEAR: MANUAL CONTROL M.C.C.	CONTROL GEAR: MANUAL CONTROL REMOTE	CONTROL GEAR: INDICATING LAMP M.C.C.	CONTROL GEAR: INTERLOCK & AUTOMATIC CONTROL	
EMCC / A - GF1																									
EMCC/ A-GF1	G.F	160/160											76/50												
				AHU-G1	AIR HANDLING UNIT (G. F)	3	11	22.5	PVC/PVC/CU	3C,10 + 1C,10E				EMCC/ A-GF1	M.C.C.B.	40	100	EMCC/ A-GF1	⊥/△	*	-	**	-	
				AHU-F1	AIR HANDLING UNIT (1ST. F)	3	5.5	11.5	PVC/PVC/CU	3C,6 + 1C,6E				EMCC/ A-GF1	M.C.C.B.	25	100	EMCC/ A-GF1	D.O.L.	*	-	**	-	
				AHU-F2	AIR HANDLING UNIT (1ST. F)	3	15	30	PVC/PVC/CU	3C,16 + 1C,16E				EMCC/ A-GF1	M.C.C.B.	60	100	EMCC/ A-GF1	⊥/△	*	-	**	-	
				AHU-S12	AIR HANDLING UNIT (2ND. F)	3	5.5	11.5	PVC/PVC/CU	3C,6 + 1C,6E				EMCC/ A-GF1	M.C.C.B.	25	100	EMCC/ A-GF1	D.O.L.	*	-	**	-	
				-	SPARE	-	-	-	-	-	-			EMCC/ A-GF1	M.C.C.B.	60	100	EMCC/ A-GF1	D.O.L.	*	-	**	-	
				-	SPARE	-	-	-	-	-	-			EMCC/ A-GF1	M.C.C.B.	25	100	EMCC/ A-GF1	D.O.L.	*	-	**	-	
				-	AHU-G4 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R2	+++ **	-	
				-	AHU-G5 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R2	+++ **	-	
				-	AHU-G6 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R2	+++ **	-	
				-	AHU-F5 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R1	+++ **	-	
				-	AHU-S10 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R1	+++ **	-	
				-	AHU-S11 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	*	EMCC/ A-R1	+++ **	-	
				-	AHU-S13 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-1 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-2 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-3 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-4 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-5 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-6 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-7 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-8 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-9 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-10 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-11 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-12 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-13 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-14 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-65 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	EF-66 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R2	+++ **	-	
				-	EF-17 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-18 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-19 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-20 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	EF-21 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-1 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-2 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	FAF-3 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-3 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	FAF-5 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-4 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-5 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	FA-AHU-6 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o	EMCC/ A-R1	+++ **	-	
				-	H-1 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	MCC/ A-R1	+++ **	-	
				-	H-2 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	MCC/ A-R1	+++ **	-	
				-	H-4 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	MCC/ A-R1	+++ **	-	
				-	H-6 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	MCC/ A-R1	+++ **	-	
				-	H-7 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-8 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-22 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-23 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-24 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-27 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-28 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-29 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	H-30 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	o o	EMCC/ A-R1	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	
				-	SPARE	-	-	-	-	-	-			-	-	-	-	-	-	o o	-	+++ **	-	

NOTES

1- SIZING OF PROTECTIVE EARTH CONDUCTORS IS TO BE AS PER IEE REGULATIONS .

2- A DISCONNECTING MEAN SHALL BE INSTALLED IN SIGHT OF THE MOTOR LOCATION IF THE MCC IS NOT .

3- ALL MCCB'S USED IN MOTOR CIRCUITS ARE USED FOR SHORT CIRCUIT AND GROUND FAULT PROTECTION ONLY. THE OVERLOAD PROTECTION IN EACH OF THE MOTOR CIRCUITS SHALL BE PROVIDED AS PER THE IEE REGULATIONS.

LEGEND

* : INDICATES A SET OF ON-OFF PUSH BUTTONS AS PER SPECIFICATION.

** : INDICATES A SET OF RED-GREEN-AMBER (ON-OFF-OVERLOAD) PILOT LIGHTS.

*** : SEE REMARKS.

o : INDICATES ON-OFF SWITCH.

o o : INDICATES A SELECTOR SWITCH AUTO/OFF/MAN.

o o o : IN CONTROL PANEL NEAR EQUIPMENT .

\+ : REMOTE CONTROL FROM SPACE

++ : INDICATES A SELECTOR SWITCH LOCAL/REMOTE

+++ : 2 PILOT LIGHTS INDICATING THE STATUS OF LOCAL/REMOTE SWITCH IN THE REMOTE CONTROL PANEL

XLPE/PVC/CU : XLPE INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

PVC/PVC/CU : PVC INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

M.C.C.B : MOULDED CASE CIRCUIT BREAKER.

D.O.L. : DIRECT ON-LINE STARTER.

⊥/△ : STAR-DELTA STARTER.

T/F : TRIP/FRAME

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
ACHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
Email: info@LBRS-CD.com

PROJECT NAME: REHABILITATION OF GRAND SERAIL

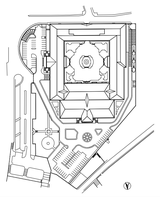
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
MCC Panel Schedule 3/7

SHEET NO. L1202-CD-E-032-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

MOTOR CONTROL CENTER			FEEDER	MOTOR									MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B. T/F	REF.NO.	REF. No.	DESIGNATION	DATA: No.OF PHASES	DATA: POWER kW	DATA: AMP.	BRANCH CIRCUIT: TYPE	BRANCH CIRCUIT: SIZE mm^2	BRANCH CIRCUIT: LENGTH m.		AMP/kVA	LOCATION	BRANCH CIRCUIT PROTECTION: TYPE	BRANCH CIRCUIT PROTECTION: TRIP AMP.	BRANCH CIRCUIT PROTECTION: FRAME AMP.	LOCATION	CONTROL GEAR: TYPE	CONTROL GEAR: MANUAL CONTROL M.C.C.	CONTROL GEAR: MANUAL CONTROL REMOTE	CONTROL GEAR: INDICATING LAMP M.C.C.	CONTROL GEAR: INTERLOCK & AUTOMATIC CONTROL	
MCC / B - GF1																								
MCC/ B-GF1	G.F	200/250											170/118											
				AHU-G7	AIR HANDLING UNIT (G. F)	3	7.5	15.5	PVC/PVC/CU	3C,6 + 1C,6E				MCC/ B-GF1	M.C.C.B.	30	100	MCC/ B-GF1	D.O.L.	*	-	**	-	
				AHU-G14	AIR HANDLING UNIT (G. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E				MCC/ B-GF1	M.C.C.B.	40	100	MCC/ B-GF1	⅄/△	*	-	**	-	
				AHU-F6	AIR HANDLING UNIT (1ST. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E				MCC/ B-GF1	M.C.C.B.	40	100	MCC/ B-GF1	⅄/△	*	-	**	-	
				AHU-F7	AIR HANDLING UNIT (1ST. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E				MCC/ B-GF1	M.C.C.B.	40	100	MCC/ B-GF1	⅄/△	*	-	**	-	
				AHU-S14	AIR HANDLING UNIT (2ND. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E				MCC/ B-GF1	M.C.C.B.	40	100	MCC/ B-GF1	⅄/△	*	-	**	-	
				AHU-S15	AIR HANDLING UNIT (2ND. F)	3	23	43	PVC/PVC/CU	3C,16 + 1C,16 E				MCC/ B-GF1	M.C.C.B.	60	100	MCC/ B-GF1	⅄/△	*	-	**	-	
				-	SPARE	-	-	-	-	-	-			MCC/ B-GF1	M.C.C.B.	60	100	MCC/ B-GF1	D.O.L.	*	-	**	-	
				-	SPARE	-	-	-	-	-	-			MCC/ B-GF1	M.C.C.B.	40	100	MCC/ B-GF1	D.O.L.	*	-	**	-	
				-	FA-AHU-8 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	FA-AHU-9 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-28 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-29 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-30 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-31 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-32 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	EF-33 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0	EMCC/ B-R1	+++ **	-	
				-	H-10 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0 0	MCC/ B-R1	+++ **	-	
				-	H-11 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5				-	-	-	-	-	-	0 0	MCC/ B-R1	+++ **	-	
				-	SPARE	-	-	-	-	-				-	-	-	-	-	-	0 0	-	+++ **	-	
				-	SPARE	-	-	-	-	-				-	-	-	-	-	-	0 0	-	+++ **	-	
				-	SPARE	-	-	-	-	-				-	-	-	-	-	-	0 0	-	+++ **	-	
				-	SPARE	-	-	-	-	-				-	-	-	-	-	-	0 0	-	+++ **	-	
EMCC / C - R1																								
EMCC/ C-R1	ROOF	160/160											133/88											
				AHU-S17	AIR HANDLING UNIT	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E				EMCC/ C-R1	M.C.C.B.	40	100	EMCC/ C-R1	⅄/△	++ *	EMCC/ C-GF1	**	-	
				AHU-S18	AIR HANDLING UNIT	3	19	38	PVC/PVC/CU	3C,16 + 1C,16 E				EMCC/ C-R1	M.C.C.B.	60	100	EMCC/ C-R1	⅄/△	++ *	EMCC/ C-GF1	**	-	
				FA-AHU-11	FRESH AIR - AIR HANDLING UNIT	1	0.75	6	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				FA-AHU-12	FRESH AIR - AIR HANDLING UNIT	3	3.7	8.5	PVC/PVC/CU	3C,4 + 1C,4E				EMCC/ C-R1	M.C.C.B.	20	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				FA-AHU-13	FRESH AIR - AIR HANDLING UNIT	1	0.37	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-36	EXHAUST FAN	1	0.38	3.5	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-37	EXHAUST FAN	3	0.58	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-41	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-42	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-50	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0 0	EMCC/ C-GF1	**	***	TO BE INTERLOCKED WITH AHU-S17
				EF-61	EXHAUST FAN	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-62	EXHAUST FAN	1	0.25	1	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				AHU-S20	AIR HANDLING UNIT	3	15	30	PVC/PVC/CU	3C,16 + 1C,16 E				EMCC/ C-R1	M.C.C.B.	60	100	EMCC/ C-R1	⅄/△	++ *	EMCC/ C-GF1	**	-	
				EF-46	EXHAUST FAN	3	0.58	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				-	SPARE	-	-	-	-	-				EMCC/ C-R1	M.C.C.B.	20	100	EMCC/ C-R1	D.O.L.	++ 0 0	EMCC/ C-GF1	**	-	
				-	SPARE	-	-	-	-	-				EMCC/ C-R1	M.C.C.B.	60	100	EMCC/ C-R1	D.O.L.	++ *	EMCC/ C-GF1	**	-	
				EF-47	EXHAUST FAN	1	0.25	1	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ *	EMCC/ C-GF1	**		
				EF-48	EXHAUST FAN	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R1	M.C.C.B.	15	100	EMCC/ C-R1	D.O.L.	++ *	EMCC/ C-GF1	**		
EMCC / C - R2																								
EMCC/ C-R2	ROOF	100/100											43/28											
				FA-AHU-10	FRESH AIR - AIR HANDLING UNIT	3	3.7	8.5	PVC/PVC/CU	3C,4 + 1C,4E				EMCC/ C-R2	M.C.C.B.	20	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-34	EXHAUST FAN	3	0.77	2.6	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-35	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-38	EXHAUST FAN	3	0.58	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0 0	EMCC/ C-GF1	**	***	TO BE INTERLOCKED WITH AHU-G8
				EF-39	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				EF-40	EXHAUST FAN	3	0.77	2	PVC/PVC/CU	3C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				AHU-S19	AIR HANDLING UNIT	3	11	22.5	PVC/PVC/CU	3C,10 + 1C,10E				EMCC/ C-R2	M.C.C.B.	40	100	EMCC/ C-R2	D.O.L.	++ *	EMCC/ C-GF1	**	-	
				EF-49	EXHAUST FAN	1	0.38	1.7	PVC/PVC/CU	2C,2.5 + 1C,2.5 E				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				-	SPARE	-	-	-	-	-				EMCC/ C-R2	M.C.C.B.	15	100	EMCC/ C-R2	D.O.L.	++ 0	EMCC/ C-GF1	**	-	
				-	SPARE	-	-	-	-	-				EMCC/ C-R2	M.C.C.B.	60	100	EMCC/ C-R2	D.O.L.	++ *	EMCC/ C-GF1	**	-	

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LEGEND

* : INDICATES A SET OF ON-OFF PUSH BUTTONS AS PER SPECIFICATION.

** : INDICATES A SET OF RED-GREEN-AMBER (ON-OFF-OVERLOAD) PILOT LIGHTS.

*** : SEE REMARKS.

o : INDICATES ON-OFF SWITCH.

o o o : INDICATES A SELECTOR SWITCH AUTO/OFF/MAN.

o o o : IN CONTROL PANEL NEAR EQUIPMENT .

\+ : REMOTE CONTROL FROM SPACE

++ : INDICATES A SELECTOR SWITCH LOCAL/REMOTE

+++ : 2 PILOT LIGHTS INDICATING THE STATUS OF LOCAL/REMOTE SWITCH IN THE REMOTE CONTROL PANEL

XLPE/PVC/CU : XLPE INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

PVC/PVC/CU : PVC INSULATED,PVC SHEATHED,COPPER CONDUCTORS.

M.C.C.B : MOULDED CASE CIRCUIT BREAKER.

D.O.L. : DIRECT ON-LINE STARTER.

⅄/△ : STAR-DELTA STARTER.

T/F : TRIP/FRAME

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHA Barchitects & engineers

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Email: info@LDRS-CD.com

PROJECT NAME: REHABILITATION OF GRAND SERAIL

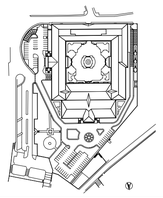
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE: NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE: MCC Panel Schedule 4/7

SHEET NO. L1202-CD-E-033-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

EMCC / C - GF1

MOTOR CONTROL CENTER REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B. T/F	FEEDER REF.NO.	MOTOR REF. No.	DESIGNATION	DATA No.OF PHASES	DATA POWER kW	DATA AMP.	BRANCH CIRCUIT TYPE	BRANCH CIRCUIT SIZE mm^2	BRANCH CIRCUIT LENGTH m.	MCC TOTAL LOAD AMP/kVA	PROTECTION LOCATION	PROTECTION BRANCH CIRCUIT TYPE	PROTECTION BRANCH CIRCUIT TRIP AMP.	PROTECTION BRANCH CIRCUIT FRAME AMP.	CONTROL GEAR LOCATION	CONTROL GEAR TYPE	CONTROL GEAR MANUAL CONTROL M.C.C.	CONTROL GEAR MANUAL CONTROL REMOTE	CONTROL GEAR INDICATING LAMP M.C.C.	CONTROL GEAR INTERLOCK & AUTOMATIC CONTROL	REMARKS
EMCC/ C-GF1	G.F	200/250										127/84											
				AHU-G11	AIR HANDLING UNIT (G. F)	3	11	22.5	PVC/PVC/CU	3C,10 + 1C,10E			EMCC/ C-GF1	M.C.C.B.	40	100	EMCC/ C-GF1	D.O.L.	*	-	**	-	
				AHU-G12	AIR HANDLING UNIT (G. F)	3	7.5	15.5	PVC/PVC/CU	3C,6 + 1C,6E			EMCC/ C-GF1	M.C.C.B.	30	100	EMCC/ C-GF1	D.O.L.	*	-	**	-	
				AHU-G13	AIR HANDLING UNIT (G. F)	3	7.5	15.5	PVC/PVC/CU	3C,10 + 1C,10E			EMCC/ C-GF1	M.C.C.B.	30	100	EMCC/ C-GF1	D.O.L.	*	-	**	-	
				AHU-F9	AIR HANDLING UNIT (1ST. F)	3	15	30	PVC/PVC/CU	3C,16 + 1C,16E			EMCC/ C-GF1	M.C.C.B.	40	100	EMCC/ C-GF1	⅄/△	*	-	**	-	
				AHU-F10	AIR HANDLING UNIT (1ST. F)	3	23	43	PVC/PVC/CU	3C,16 + 1C,16E			EMCC/ C-GF1	M.C.C.B.	60	100	EMCC/ C-GF1	⅄/△	*	-	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ C-GF1	M.C.C.B.	60	100	EMCC/ C-GF1	D.O.L.	*	-	**	-	
				-	SPARE	-	-	-	-	-			EMCC/ C-GF1	M.C.C.B.	40	100	EMCC/ C-GF1	D.O.L.	*	-	**	-	
				-	AHU-S17 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	*	EMCC/ C-R1	+++ **	-	
				-	AHU-S18 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	*	EMCC/ C-R1	+++ **	-	
				-	AHU-S20 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	FA-AHU-11 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	FA-AHU-12 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	FA-AHU-13 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	EF-41 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	EF-42 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R1	+++ **	-	
				-	H-13 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	H-14 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	H-15 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	H-25 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	H-26 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	EF-36 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **	-	
				-	EF-37 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **	-	
				-	EF-50 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **	-	
				-	EF-61 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **	-	
					EF-62 REMOTE CONTROL				PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **		
					EF-46 REMOTE CONTROL				PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **		
					EF-47 REMOTE CONTROL				PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **		
					EF-48 REMOTE CONTROL				PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	EMCC/ C-R1	+++ **		
					SPARE														o o	-	+++ **		
					SPARE														o o	-	+++ **		
					SPARE														o o	-	+++ **		
					SPARE														o o	-	+++ **		
					SPARE														o o	-	+++ **		

MCC / C - GF2

MCC/ C-GF2	G.F	160/160										81/53											
				AHU-G9	AIR HANDLING UNIT (G. F)	3	3.7	8.5	PVC/PVC/CU	3C,4 + 1C,4E			MCC/ C-GF2	M.C.C.B.	20	100	MCC/ C-GF2	D.O.L.	*	-	**	-	
				AHU-G10	AIR HANDLING UNIT (G. F)	3	5.7	12	PVC/PVC/CU	3C,6 + 1C,6E			MCC/ C-GF2	M.C.C.B.	25	100	MCC/ C-GF2	D.O.L.	*	-	**	-	
				AHU-F8	AIR HANDLING UNIT (1ST. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E			MCC/ C-GF2	M.C.C.B.	40	100	EMCC/ C-GF2	⅄/△	*	-	**	-	
				AHU-S16	AIR HANDLING UNIT (2ND. F)	3	15	30	PVC/PVC/CU	3C,10 + 1C,10E			MCC/ C-GF2	M.C.C.B.	40	100	MCC/ C-GF2	⅄/△	*	-	**	-	
				-	SPARE	-	-	-	-	-			MCC/ C-GF2	M.C.C.B.	60	100	MCC/ C-GF2	D.O.L.	*	-	**	-	
				-	SPARE	-	-	-	-	-			MCC/ C-GF2	M.C.C.B.	40	100	MCC/ C-GF2	D.O.L.	*	-	**	-	
				-	FA-AHU-10 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-34 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-35 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-49 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	AHU-S19 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-38 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-39 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	EF-40 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o	EMCC/ C-R2	+++ **	-	
				-	H-12 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5			-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	H-31 REMOTE CONTROL	-	-	-	PVC/PVC/CU	7C,2.5	-		-	-	-	-	-	-	o o	MCC/ C-R1	+++ **	-	
				-	SPARE	-	-	-	-	-	-		-	-	-	-	-	-	o o	-	+++ **	-	
					SPARE	-	-	-	-	-	-		-	-	-	-	-	-	o o	-	+++ **	-	

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OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
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Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

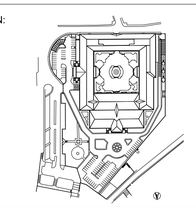
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
MCC Panel Schedule 5/7

SHEET NO. L1202-CD-E-034-A1

Revision NO. 00

M O T O R C O N T R O L C E N T E R / P A N E L S C H E D U L E S

MOTOR CONTROL CENTER			FEEDER	MOTOR								MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCA-TION ROOM	MAIN INCOMING PRO-TECTION M.C.C.B. T/F	REF.No.	REF. No.	D E S I G N A T I O N	DATA			BRANCH CIRCUIT				LOCA-TION	BRANCH CIRCUIT PROTECTION			LOCA-TION	CONTROL GEAR					
						No.OF PHASES	POWER kW	AMP.	TYPE	SIZE mm^2	LENGTH m.	AMP/kVA		TYPE	TRIP AMP.	FRAME AMP.		TYPE	MANUAL CONTROL M.C.C.	MANUAL CONTROL REMOTE	INDICATING LAMP M.C.C.	INTERLOCK & AUTOMATIC CONTROL	
EMCC / B – B1																							
EMCC/ B-B1	MECH. HALL	250/250										230/152											
				EF-23	EXHAUST FAN	3	15.4	31	PVC/PVC/CU	3C,10 + 1C,E10	95		EMCC/ B-B1	M.C.C.B.	40	100	EMCC/ B-B1	⅄/△	O O	–	**	***	TO BE INTERLOCKED WITH FAF-19
				EF-24	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	15		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH FAF-20
				EF-25o	EXHAUST FAN	3	5.77	12	PVC/PVC/CU	3C,6 + 1C,6E	40		EMCC/ B-B1	M.C.C.B.	25	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				EF-26	EXHAUST FAN	3	0.77	12	PVC/PVC/CU	3C,2.5 + 1C,2.5E	40		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				EF-27	EXHAUST FAN	3	2.3	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	55		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH FAF-23
				EF-43	EXHAUST FAN	3	0.58	1.7	PVC/PVC/CU	3C,2.5 + 1C,2.5E	95		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				EF-63	EXHAUST FAN	3	0.58	1.7	PVC/PVC/CU	3C,2.5 + 1C,2.5E	95		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				FOP-1/2	FUEL OIL PUMP	3	3.1	7.5	PVC/PVC/CU	3C,4 + 1C,4E			EMCC/ B-B1	M.C.C.B.	20	100	–	–	O O O	–	**	–	
				FAF-9	FRESH AIR FAN	3	7.7	15.5	PVC/PVC/CU	3C,6 + 1C,6E	100		EMCC/ B-B1	M.C.C.B.	30	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH EF-1 LOCATED IN EMCC/A-R1
				FAF-10	FRESH AIR FAN	3	3.85	8.85	PVC/PVC/CU	3C,4 + 1C,4E	110		EMCC/ B-B1	M.C.C.B.	20	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH EF-2 LOCATED IN EMCC/A-R1
				FA-AHU-7	FRESH AIR – AIR HANDLING UNIT	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	90		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				FA-AHU-14	FRESH AIR – AIR HANDLING UNIT	3	1.1	2.6	PVC/PVC/CU	3C,2.5 + 1C,2.5E	100		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				FAF-19	FRESH AIR FAN	3	5.77	12	PVC/PVC/CU	3C,6 + 1C,6E	100		EMCC/ B-B1	M.C.C.B.	25	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH EF-23
				FAF-20	FRESH AIR FAN	3	3.85	8.5	PVC/PVC/CU	3C,4 + 1C,4E	40		EMCC/ B-B1	M.C.C.B.	20	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH EF-24
				FAF-23	FRESH AIR FAN	3	2.3	5.0	PVC/PVC/CU	3C,2.5 + 1C,2.5E	30		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	TO BE INTERLOCKED WITH EF-27
				FAF-24	FRESH AIR FAN	1	0.38	1.6	PVC/PVC/CU	3C,2.5 + 1C,2.5E	100		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				–	SPARE	–	–	–	–	–	–		EMCC/ B-B1	M.C.C.B.	25	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				–	SPARE	–	–	–	–	–	–		EMCC/ B-B1	M.C.C.B.	40	100	EMCC/ B-B1	D.O.L.	O O	–	**	–	
				H- 9	HUMIDIFIER	3	24	47	PVC/PVC/CU	3C,16 + 1C,16E	100		EMCC/ B-B1	M.C.C.B.	60	100	EMCC/ B-B1	D.O.L.	O	–	**	***	FA-AHU-7
				H- 16	HUMIDIFIER	3	24	47	PVC/PVC/CU	3C,16 + 1C,16E	100		EMCC/ B-B1	M.C.C.B.	60	100	EMCC/ B-B1	D.O.L.	O	–	**	***	FA-AHU-14
				EF-64	S. EXHAUST FAN	3	1.54	3.5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	100		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	
				FAF-25	FRESH AIR FAN	3	1.54	3.5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	100		EMCC/ B-B1	M.C.C.B.	15	100	EMCC/ B-B1	D.O.L.	O O	–	**	***	

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M.C.C.B : MOULDED CASE CIRCUIT BREAKER.

D.O.L. : DIRECT ON-LINE STARTER.

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T/F : TRIP/FRAME

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@A.DRS-CO.com

PROJECT NAME: REHABILITATION OF GRAND SERAIL

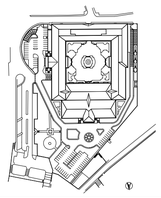
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
MCC Panel Schedule 6/7

SHEET NO. L1202-CD-E-035-A1

Revision NO. 00

MOTOR CONTROL CENTER / PANEL SCHEDULES

MOTOR CONTROL CENTER			FEEDER	MOTOR								MCC TOTAL LOAD	PROTECTION				CONTROL GEAR						REMARKS
REF. No.	LOCATION ROOM	MAIN INCOMING PROTECTION M.C.C.B. T/F	REF.NO.	REF. No.	DESIGNATION	DATA No.OF PHASES	DATA POWER kW	DATA AMP.	BRANCH CIRCUIT TYPE	BRANCH CIRCUIT SIZE mm^2	BRANCH CIRCUIT LENGTH m.	AMP/kVA	LOCATION	BRANCH CIRCUIT PROTECTION TYPE	BRANCH CIRCUIT PROTECTION TRIP AMP.	BRANCH CIRCUIT PROTECTION FRAME AMP.	LOCATION	CONTROL GEAR TYPE	CONTROL GEAR MANUAL CONTROL M.C.C.	CONTROL GEAR MANUAL CONTROL REMOTE	CONTROL GEAR INDICATING LAMP M.C.C.	CONTROL GEAR INTERLOCK & AUTOMATIC CONTROL	
EMCC / B - B2																							
EMCC/ B-B2	MECH. HALL	400/400										283/188											
				DHWH-1	WATER HEATER (A)	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	O O O		O O			* * *	ONE HEATER IS STAND - BY
				DHWH-2	WATER HEATER (A)	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	O O O		O O			* * *	
				DHWH-3	WATER HEATER (B - C)	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	O O O		O O			* * *	
				B-1	BOILER	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	O O O	-	O O	+	* *	* * *	
				B-2	BOILER	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	O O O	-	O O	+	* *	* * *	ONE BOILER IS STAND - BY
				B-3	BOILER	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	O O O	-	O O	+	* *	* * *	
				HWP-1	PRIMARY HEATING PUMP	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				HWP-2	PRIMARY HEATING PUMP	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				HWP-3	PRIMARY HEATING PUMP	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				HWP-4A	SECONDARY HEATING PUMP (A)	3	5.5	11.5	PVC/PVC/CU	3C,10 + 1C,10E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				HWP-4B	SECONDARY HEATING PUMP (A)	3	5.5	11.5	PVC/PVC/CU	3C,10 + 1C,10E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				HWP-4C	SECONDARY HEATING PUMP (A)	3	5.5	11.5	PVC/PVC/CU	3C,10 + 1C,10E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				HWP-6	SECONDARY HEATING PUMP ("B - C" - VIP)	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				HWP-7	SECONDARY HEATING PUMP ("B - C" - VIP)	3	3.8	8.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				DHWP-1	DOMESTIC SECONDARY HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				DHWP-2	DOMESTIC SECONDARY HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				DHWP-3	DOMESTIC HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	BOTH PUMPS ARE STAND - BY
				DHWP-4	DOMESTIC HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				DHWP-5	DOMESTIC HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				DHWP-6	DOMESTIC HOT WATER CIRCULATING PUMP	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				CHWP-6A	SECONDARY CHILLED WATER PUMP (A)	3	22	43	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				CHWP-6B	SECONDARY CHILLED WATER PUMP (A)	3	22	43	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	
				CHWP-6C	SECONDARY CHILLED WATER PUMP (A)	3	22	43	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	
				CHWP-8	SECONDARY CHILLED WATER PUMP ("B - C" - VIP)	3	22	43	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				CHWP-9	SECONDARY CHILLED WATER PUMP ("B - C" - VIP)	3	22	43	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	
				CWP-1	BOOSTER PUMP (A)	3	17	35	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	-	-	-	* *	* * *	
				CWP-2	BOOSTER PUMP (A)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	ONE PUMP IS STAND - BY
				CWP-3	BOOSTER PUMP (A)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-4	BOOSTER PUMP (B - C)	3	17	35	PVC/PVC/CU	3C,10 + 1C,10E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	-	-	-	* *	* * *	
				CWP-5	BOOSTER PUMP (B - C)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	ONE PUMP IS STAND - BY
				CWP-6	BOOSTER PUMP (B - C)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-7	BOOSTER PUMPS (IRRIGATION)	3	8	18	PVC/PVC/CU	3C,10 + 1C,10E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	-	-	-	* *	* * *	ONE PUMP IS STAND - BY
				CWP-8	BOOSTER PUMP (IRRIGATION)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-9	BOOSTER PUMP (HWS)	3	2.2	5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	30	100	EMCC/ B-B2	-	-	-	* *	* * *	ONE PUMP IS STAND - BY
				CWP-10	BOOSTER PUMP (HWS)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-11	BOOSTER PUMP (CHWS)	3	4.4	10	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	30	100	EMCC/ B-B2	-	-	-	* *	* * *	ONE PUMP IS STAND - BY
				CWP-12	BOOSTER PUMP (CHWS)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-15	BOOSTER PUMP (FOUNTAIN-PATIO)(JET PUMP)	3	2	4	PVC/PVC/CU	3C,4 + 1C,4E	50		EMCC/ B-B2	M.C.C.B.	20	100	EMCC/ B-B2	-	-	-	* *	* * *	
				CWP-16	BOOSTER PUMP (FOUNTAIN-PATIO) (FILTER)	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
				CWP-17	BOOSTER PUMP (POTABLE WATER)	3	4.4	10	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	30	100	EMCC/ B-B2	-	-	-	* *	* * *	ONE PUMP IS STAND - BY
				CWP-18	BOOSTER PUMP (POTABLE WATER)																		
				HWP-8	SEC. HEATING PUMPS (B - C)	3	3.8	11.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				HWP-9	SEC. HEATING PUMPS (B - C)	3	3.8	11.5	PVC/PVC/CU	3C,6 + 1C,6E	50		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				HWP-10	SEC. HEATING PUMPS (BANQUET & LOUNGE)	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				HWP-11	SEC. HEATING PUMPS (BANQUET & LOUNGE)	3	2.2	5	PVC/PVC/CU	3C,2.5 + 1C,2.5E	50		EMCC/ B-B2	M.C.C.B.	15	100	EMCC/ B-B2	D.O.L.	O O	-	* *	* * *	
				CHWP-10	SEC. CHW PUMPS (B - C)	3	18.6	5	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				CHWP-11	SEC. CHW PUMPS (B - C)	3	18.6	38	PVC/PVC/CU	3C,25 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	80	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	
				CHWP-12	SEC. CHW PUMPS (BANQUET & LOUNGE)	3	15	30	PVC/PVC/CU	3C,16 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	ONE PUMP IS STAND - BY
				CHWP-13	SEC. CHW PUMPS (BANQUET & LOUNGE)	3	15	30	PVC/PVC/CU	3C,16 + 1C,16E	50		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	⅄/△	O O	-	* *	* * *	
				U.V.	U.V STERILIZER	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E			EMCC/ B-B2	M.C.C.B.	15	100	000	-	O O	-	* *	-	
				SFNR 01	WATER SOFTENER	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E			EMCC/ B-B2	M.C.C.B.	15	100	000	-	O O	-	* *	-	
				SFNR 02	WATER SOFTENER	1	0.2	1	PVC/PVC/CU	2C,2.5 + 1C,2.5E			EMCC/ B-B2	M.C.C.B.	15	100	000	-	O O	-	* *	-	
				-	SPARE	-	-	-	-	-	-		EMCC/ B-B2	M.C.C.B.	25	100	EMCC/ B-B2	D.O.L	O O	-	* *	-	
				-	SPARE	-	-	-	-	-	-		EMCC/ B-B2	M.C.C.B.	40	100	EMCC/ B-B2	D.O.L	O O	-	* *	-	
				-	SPARE	-	-	-	-	-	-		EMCC/ B-B2	M.C.C.B.	60	100	EMCC/ B-B2	⅄/△	O O	-	* *	-	

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CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@A.DRS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

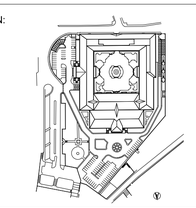
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE

NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

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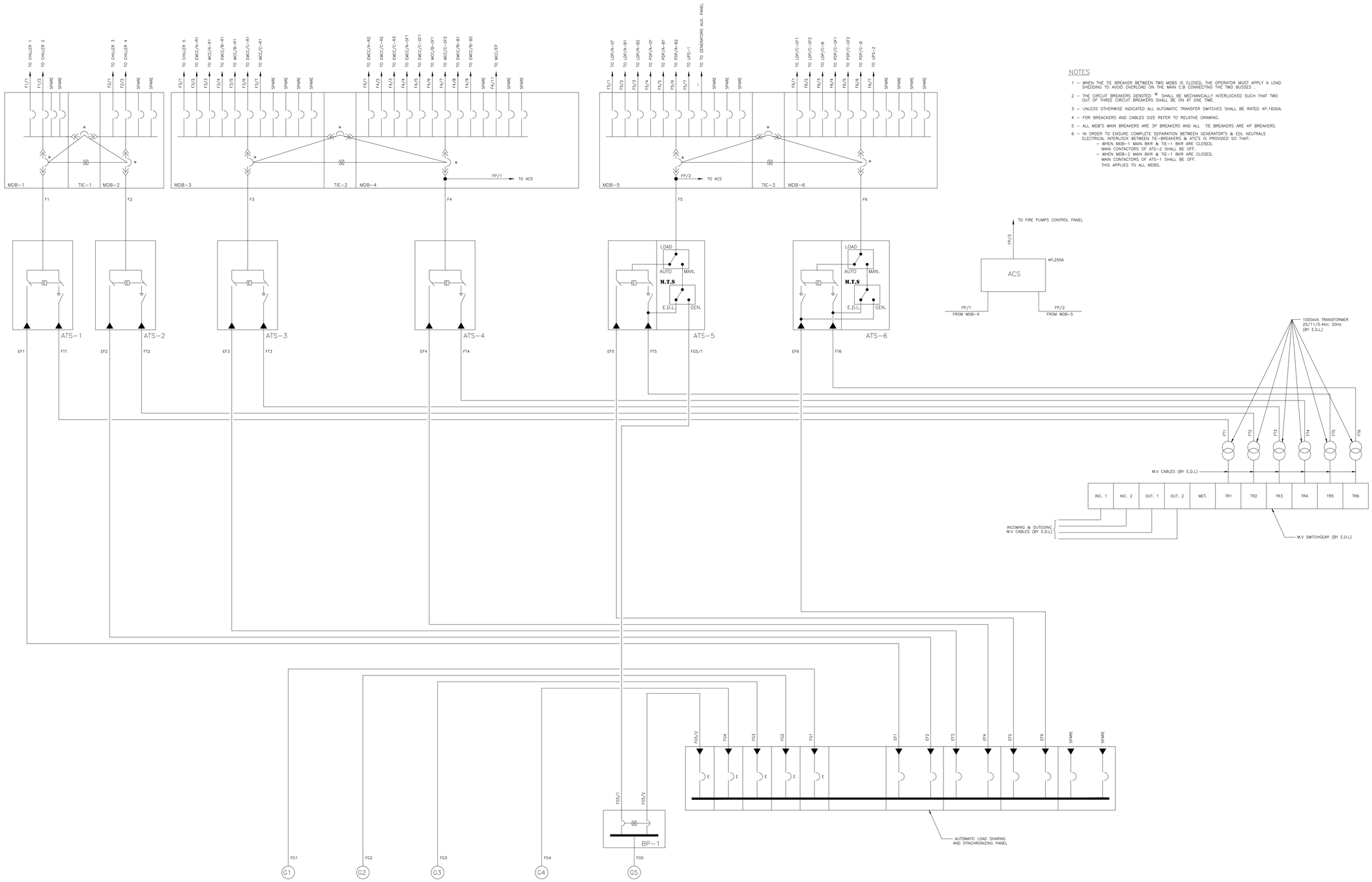
SHEET TITLE

MCC Panel Schedule 7/7

SHEET NO. L1202-CD-E-036-A1

Revision NO. 00



NOTES

1 – WHEN THE TIE BREAKER BETWEEN TWO MDBS IS CLOSED, THE OPERATOR MUST APPLY A LOAD SHEDDING TO AVOID OVERLOAD ON THE MAIN C.B CONNECTING THE TWO BUSSES .

2 – THE CIRCUIT BREAKERS DENOTED * SHALL BE MECHANICALLY INTERLOCKED SUCH THAT TWO OUT OF THREE CIRCUIT BREAKERS SHALL BE ON AT ONE TIME.

3 – UNLESS OTHERWISE INDICATED ALL AUTOMATIC TRANSFER SWITCHES SHALL BE RATED 4P,1600A.

4 – FOR BREACKERS AND CABLES SIZE REFER TO RELATIVE DRAWING.

5 – ALL MDB'S MAIN BREAKERS ARE 3P BREAKERS AND ALL TIE BREAKERS ARE 4P BREAKERS.

6 – IN ORDER TO ENSURE COMPLETE SEPARATION BETWEEN GENERATOR'S & EDL NEUTRALS ELECTRICAL INTERLOCK BETWEEN TIE-BREAKERS & ATS'S IS PROVIDED SO THAT:
- WHEN MDB-1 MAIN BKR & TIE-1 BKR ARE CLOSED, MAIN CONTACTORS OF ATS-2 SHALL BE OFF.
- WHEN MDB-2 MAIN BKR & TIE-1 BKR ARE CLOSED, MAIN CONTACTORS OF ATS-1 SHALL BE OFF.

THIS APPLIES TO ALL MDBS.

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

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SHEET TITLE
Panel Distribution Schedule Diagram 1/2

SHEET NO.
L1202-CD-E-037-A1

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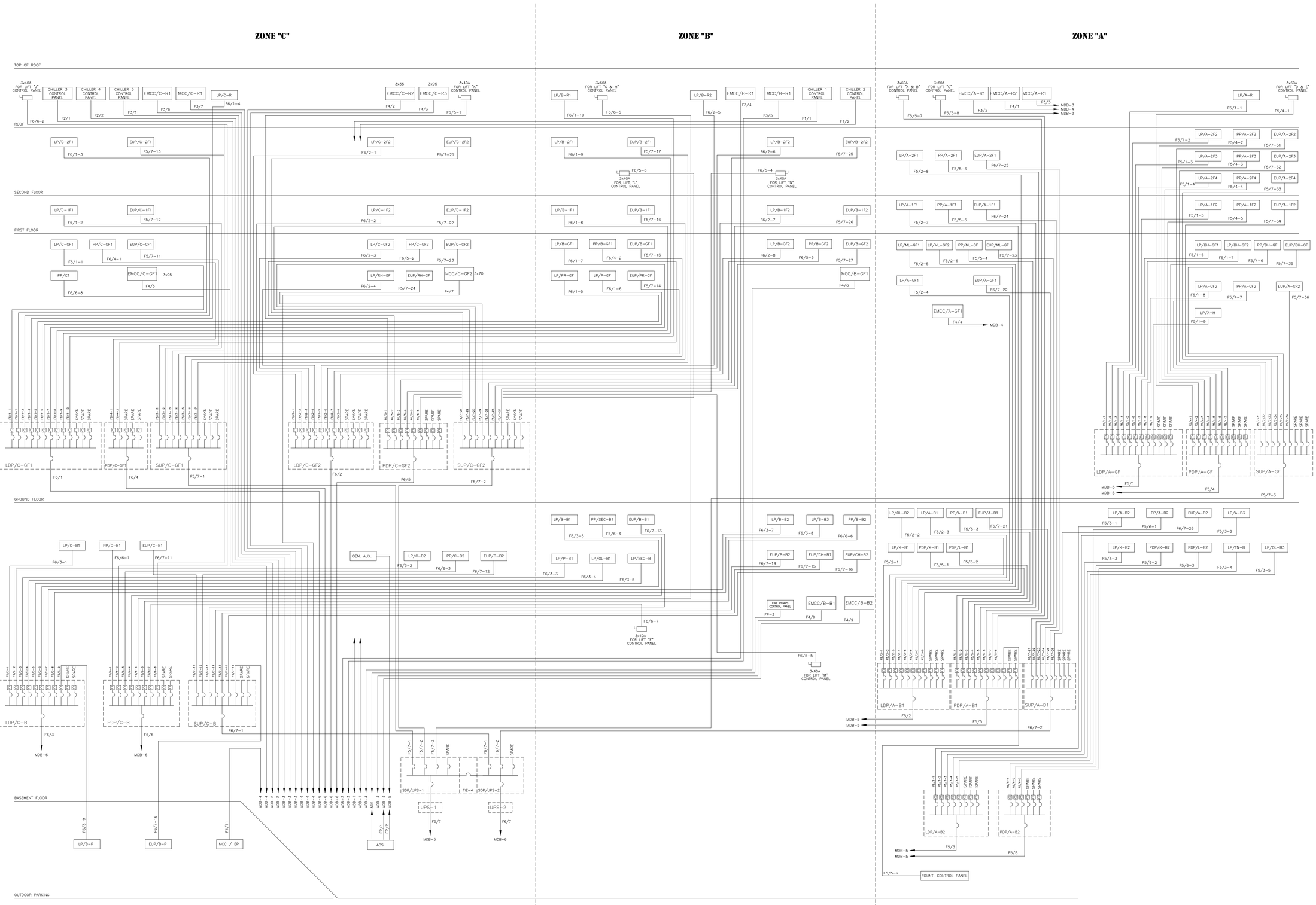

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PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE

NTS

DATE: May 2022

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SHEET TITLE

Panel Distribution Schedule Diagram 2/2

SHEET NO.	Revision NO.
L1202-CD-E-038-A1	00

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
MDB-1																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-1	F1	380	A.C.B	1600	1600	PVC/PVC/CU	14(SC,240)	22	900	1350/900	0.5	–			40	
OUTGOING FEEDER TO CHILLER 1	F1/1	380	M.C.C.B.	1250	800	PVC/PVC/CU	2(3½C,240) + 1C,240 E	91	450	675/450	2.5	35				
OUTGOING FEEDER TO CHILLER 2	F1/2	380	M.C.C.B.	1250	800	PVC/PVC/CU	2(3½C,240) + 1C,240 E	76	450	675/450	2	35				
SPARE	–	380	M.C.C.B.	225	63	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B. HPWF	225	63	–	–	–	–	–	–	–				
TIE-1	–	380	A.C.B	1600	1600	–	–	–	–	–	–	–				
MDB-2																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-2	F2	380	A.C.B	1600	1600	PVC/PVC/CU	14(SC,240)	22	900	1350/900	0.5	–			40	
OUTGOING FEEDER TO CHILLER 3	F2/1	380	M.C.C.B.	1250	800	PVC/PVC/CU	2(3½C,240) + 1C,240 E	89	450	675/450	1.5	36				
OUTGOING FEEDER TO CHILLER 4	F2/2	380	M.C.C.B.	1000	800	PVC/PVC/CU	2(3½C,240) + 1C,240 E	139	450	675/450	1	37				
SPARE	–	380	M.C.C.B.	225	63	–	–	–	–	–	–	–				
SPARE	–	–	SPARE	225	63	–	–	–	–	–	–					
MDB-3																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-3	F3	380	A.C.B	1600	1600	PVC/PVC/CU	14(SC,240)	15	708	1068/708	0.5	–	0.9	638	40	
OUTGOING FEEDER TO CHILLER 5	F3/1	380	M.C.B.	1250	800	PVC/PVC/CU	2(3½C,240) + 1C,240 E	156	450	675/450	1	40				
OUTGOING FEEDER TO EMCC/A-R1	F3/2	380	M.C.B.	400 (H)	400	PVC/PVC/CU	2(3½C,185) + 1C,185 E	180	181	234/154	2	25				
OUTGOING FEEDER TO MCC/A-R1	F3/3	380	M.C.B.	400 (H)	400	PVC/PVC/CU	2(3½C,185) + 1C,185 E	180	183	422/279	2	25				WINTER OPERATION ONLY
OUTGOING FEEDER TO EMCC/B-R1	F3/4	380	M.C.B.	200 (H)	63	PVC/PVC/CU	3½C,25 + 1C,16 E	165	13.5	24/16	2	10				
OUTGOING FEEDER TO MCC/B-R1	F3/5	380	M.C.B.	100 (H)	80	PVC/PVC/CU	3½C,35 + 1C,16 E	160	39	142/94	2.5	10				WINTER OPERATION ONLY
OUTGOING FEEDER TO EMCC/C-R1	F3/6	380	M.C.B.	200 (H)	160	PVC/PVC/CU	3½C,70 + 1C,35 E	80	63	133/88	1	25				
OUTGOING FEEDER TO MCC/C-R1	F3/7	380	M.C.B.	400 (H)	400	PVC/PVC/CU	2(3½ C,95) + 1C,50 E	75	90	374/247	1	24				WINTER OPERATION ONLY
SPARE	–	380	M.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.B.	250 (H)	100	–	–	–	–	–	–	–				
TIE-2	–	380	A.C.B	1600	1600	–	–	–	–	–	–	–				
MDB-4																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-4	F4	380	A.C.B	–	1600	PVC/PVC/CU	14(SC,240)	12	766	1221/777	0.5	–	0.9	656	40	
OUTGOING FEEDER TO EMCC/A-R2	F4/1	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,120 + 1C,70 E	180	86.5	163/107	2.5	11				
OUTGOING FEEDER TO EMCC/C-R2	F4/2	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	97	33	43/28	1.5	9				
OUTGOING FEEDER TO EMCC/C-R3	F4/3	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,95 + 1C,50 E	98	99	113/75	1.5	16				
OUTGOING FEEDER TO EMCC/A-GF1	F4/4	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	3½C,70 + 1C,35 E	156	52	78/52	2	9				
OUTGOING FEEDER TO EMCC/C-GF1	F4/5	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,95 + 1C,50 E	76	88.5	127/84	1	25				
OUTGOING FEEDER TO MCC/B-GF1	F4/6	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,95 + 1C,50 E	144	94	179/118	1.5	16				WILL NOT OPERATE ON EMERGENCY SUPPLY
OUTGOING FEEDER TO MCC/C-GF2	F4/7	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	3½C,70 + 1C,35 E	105	46	81/53	1	15				WILL NOT OPERATE ON EMERGENCY SUPPLY
OUTGOING FEEDER TO EMCC/B-B1	F4/8	380	M.C.C.B.	250 (H)	250	PVC/PVC/CU	2(3½ C,95) + 1C,50 E	47	74	230/152	0.5	32				
OUTGOING FEEDER TO EMCC/B-B2	F4/9	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	3¼C,240 + 1C,120 E	73	193	232/155	0.5	37				
–	–	–	–	–	–	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	160	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	160	–	–	–	–	–	–	–				
TO MCC/EP	F4/11	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,95 + 1C,50 E	115	–	–	–	–				
MDB-5																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-5	F5	380	A.C.B	–	1600	PVC/PVC/CU	14(SC,240)	10	1380	1648/1097	0.5	–	0.9	882	40	
OUTGOING FEEDER TO LDP/A-GF	F5/1	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	2(3½C,150) + 1C,150 E	147	273	312/208	2	31				
OUTGOING FEEDER TO LDP/A-B1	F5/2	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	2(3½C,150) + 1C,150 E	147	244	269/179	2	31				
OUTGOING FEEDER TO LDP/A-B2	F5/3	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	3½C,50 + 1C,25 E	130	88	95/62	2	9				
OUTGOING FEEDER TO PDP/A-GF	F5/4	380	M.C.C.B.	250 (H)	250	PVC/PVC/CU	3½C,185 + 1C,95 E	141	209	258/172	2	20				
OUTGOING FEEDER TO PDP/A-B1	F5/5	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	2(3½C,150) + 1C,150 E	146	250	318/212	1.5	31				
OUTGOING FEEDER TO PDP/A-B2	F5/6	380	M.C.C.B.	250 (H)	250	PVC/PVC/CU	3½C,185 + 1C,95 E	128	196	246/164	2	20				
OUTGOING FEEDER TO UPS-1	F5/7	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	4C,95 + 1C,50 E	20	120	150/100	1	35				
OUTGOING FEEDER TO GENERATORS PANEL	F5/8	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	4C,35 + 1C,16 E	25	6	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
TIE-3	–	380	A.C.B	–	1600	–	–	–	–	–	–					
MDB-6																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER FROM ATS-6	F6	380	A.C.B	–	1600	PVC/PVC/CU	14(SC,240)	8	941	1008/675	0.5	–	0.9	846	40	
OUTGOING FEEDER TO LDP/C-GF1	F6/1	380	M.C.C.B.	800	630	PVC/PVC/CU	2(3½C,185) + 1C,185 E	57	310	320/213	1	36				
OUTGOING FEEDER TO LDP/C-GF2	F6/2	380	M.C.C.B.	800	630	PVC/PVC/CU	2(3½C,185) + 1C,185 E	75	262	254/169	1	34				
OUTGOING FEEDER TO LDP/C-B	F6/3	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	3¼C,240 + 1C,120 E	24	138	144/100	0.5	39				
OUTGOING FEEDER TO PDP/C-GF1	F6/4	380	M.C.C.B.	200 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	56	17	23/15	0.5	16				
OUTGOING FEEDER TO PDP/C-GF2	F6/5	380	M.C.C.B.	200 (H)	125	PVC/PVC/CU	3½C,50 + 1C,25 E	75	68	99/66	1	15				
OUTGOING FEEDER TO PDP/C-B	F6/6	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	3½C,95 + 1C,50 E	23	146	168/112	0.5	36				

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE ICU (kA)	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
MDB-6 (CONT'D)																
OUTGOING FEEDER TO UPS-2	F6/7	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	4C,95 + 1C,50 E	20	120	150/100	1	35				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SDP/UPS-1																MINIMUM SHORT CIRCUIT RATING = 35kA
MAIN INCOMING FEEDER FROM UPS-1	F5/7	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	4C,95 + 1C,50 E	20	266	240/160	0.5	33	0.7	100	35	
OUTGOING FEEDER TO SUP/C-GF1	F5/7-1	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	4C,70 + 1C,35 E	54	106	96/64	1	18				
OUTGOING FEEDER TO SUP/C-GF2	F5/7-2	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	4C,70 + 1C,35 E	75	114	90/60	1	14				
OUTGOING FEEDER TO SUP/A-GF	F5/7-3	380	M.C.C.B.	200 (H)	80	PVC/PVC/CU	4C,35 + 1C,16 E	140	46	54/36	2	8				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
TIE-4		380	M.C.C.B.	250 (H)	200	–	–	–	–	–	–	–				
SDP/UPS-2																MINIMUM SHORT CIRCUIT RATING = 35kA
MAIN INCOMING FEEDER FROM UPS-2	F6/7	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	4C,95 + 1C,50 E	20	90	98/65	0.5	33	0.7	73	35	
OUTGOING FEEDER TO SUP/C-B	F6/7-1	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	4C,70 + 1C,35 E	22	42	44/29	1	29				
OUTGOING FEEDER TO SUP/A-B1	F6/7-2	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	4C,35 + 1C,16 E	146	48	54/36	2	9				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SYNCHRONIZING PANEL																MINIMUM SHORT CIRCUIT RATING = 50kA
INCOMING FEEDER FROM G1	FG1	380	–	–	–	PVC/PVC/CU	11(SC,240)	21	–	–	0.5	–			44	
INCOMING FEEDER FROM G2	FG2	380	–	–	–	PVC/PVC/CU	11(SC,240)	19	–	–	0.5	–				
INCOMING FEEDER FROM G3	FG3	380	–	–	–	PVC/PVC/CU	11(SC,240)	17	–	–	0.5	–				
INCOMING FEEDER FROM G4	FG4	380	–	–	–	PVC/PVC/CU	11(SC,240)	16	–	–	0.5	–				
INCOMING FEEDER FROM BP-1	FG5/2	380	–	–	–	PVC/PVC/CU	11(SC,240)	18	–	–	0.5	–				
OUTGOING FEEDER TO ATS-1	EF1	380	M.C.C.B.	1600	1600	–	14(SC,240)	–	–	–	–	–				
OUTGOING FEEDER TO ATS-2	EF2	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
OUTGOING FEEDER TO ATS-3	EF3	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
OUTGOING FEEDER TO ATS-4	EF4	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
OUTGOING FEEDER TO ATS-5	EF5	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
OUTGOING FEEDER TO ATS-6	EF6	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	1600	1600	–	–	–	–	–	–	–				
BP-1																MINIMUM SHORT CIRCUIT RATING = 50kA
INCOMING FEEDER FROM G5	FG5	380	–	–	–	PVC/PVC/CU	11(SC,240)	13	–	–	0.5	–				
OUTGOING FEEDER TO ATS-5	FG5/1	380	M.C.C.B.	1250	1000	–	14(SC,240)	–	–	–	–	–				
OUTGOING FEEDER TO SYNCHRONIZING PANEL	FG5/2	380	M.C.C.B.	1250	1000	–	14(SC,240)	–	–	–	–	–				
ATS-1																MINIMUM SHORT CIRCUIT RATING = 50kA
INCOMING FEEDER FROM TR-1	FT1	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONISING PANEL	EF1	380	–	–	–	PVC/PVC/CU	14(SC,240)	22	–	–	0.5					
OUTGOING FEEDER TO MDB-1	F1	380	–	–	–	–	14(SC,240)	–	–	–	–					

ACS												
INCOMING FEEDER FROM MDB-4	FP-1	380	MCCB/HJW	250	200	PVC/PVC/CU	3½C,95 + 1C,50 E	16	75	110/75	–	
INCOMING FEEDER FROM MDB-5	FP-2	380	MCCB/HJW	250	200	PVC/PVC/CU	3½C,95 + 1C,50 E	16	–	–	–	
OUTGOING FEEDER TO FIRE PB PANEL	FP-3	380	MCCB/HJW	250	200	PVC/PVC/CU	3½C,95 + 1C,50 E	80	–	–	–	

NOTES

1 – IN CASE OF EMERGENCY SUPPLY, ANY 3 CHILLERS OUT OF 5 WILL OPERATE. ONE PRE-SELECTED COMBINATION OF A GROUP OF 3 CHILLERS WILL BE CHOSEN BY MEANS OF A SELECTOR SWITCH OR FROM BACS. THIS WILL BE INCLUDED UNDER MECHANICAL CONTRACT .

OWNER NAME:

CLIENT:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

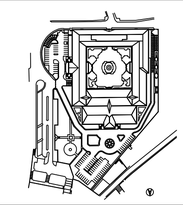
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Panel Boards & Feeder Data 1/4

SHEET NO. L1202-CD-E-039-A1

Revision NO. 00

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
ATS-2												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
INCOMING FEEDER FROM TR-2	FT2	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONIZING PANEL	EF2	380	–	–	–	PVC/PVC/CU	14(SC,240)	23	–	–	0.5					
OUTGOING FEEDER TO MDB-2	F2	380	–	–	–	–	–	–	–	–	–					
ATS-3												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
INCOMING FEEDER FROM TR-3	FT3	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONIZING PANEL	EF3	380	–	–	–	PVC/PVC/CU	14(SC,240)	26	–	–	0.5					
OUTGOING FEEDER TO MDB-3	F3	380	–	–	–	–	–	–	–	–	–					
ATS-4												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
INCOMING FEEDER FROM TR-4	FT4	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONIZING PANEL	EF4	380	–	–	–	PVC/PVC/CU	14(SC,240)	23	–	–	0.5					
OUTGOING FEEDER TO MDB-4	F4	380	–	–	–	–	–	–	–	–	–					
ATS-5												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
INCOMING FEEDER FROM TR-5	FT5	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONIZING PANEL	EF5	380	–	–	–	PVC/PVC/CU	14(SC,240)	28	–	–	0.5					
OUTGOING FEEDER TO MDB-5	F5	380	–	–	–	–	–	–	–	–	–					
ATS-6												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
INCOMING FEEDER FROM TR-6	FT6	380	–	–	–	PVC/PVC/CU	14(SC,240)	60	–	–	0.5					
INCOMING FEEDER FROM SYNCHRONIZING PANEL	EF6	380	–	–	–	PVC/PVC/CU	14(SC,240)	30	–	–	0.5					
OUTGOING FEEDER TO MDB-6	F6	380	–	–	–	–	–	–	–	–	–					
LDP/A-GF												**MINIMUM SHORT CIRCUIT RATING = 35KA**				
MAIN INCOMING FEEDER	F5/1	380	M.C.C.B.	400	400	–	–	–	273	312/208	–	–	0.9	200	31	
OUTGOING FEEDER TO LP/A-R	F5/1-1	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	29	13	13/9	1	5				
OUTGOING FEEDER TO LP/A-2F2	F5/1-2	380	M.C.C.B.		60	PVC/PVC/CU	4C,16 + 1C,16 E	35	27	27/18	0.5	10				
OUTGOING FEEDER TO LP/A-2F3	F5/1-3	380	M.C.C.B.		60	PVC/PVC/CU	4C,16 + 1C,16 E	73	31	30/20	1.5	5				
OUTGOING FEEDER TO LP/A-2F4	F5/1-4	380	M.C.C.B.		80	PVC/PVC/CU	3½C,25 + 1C,16 E	42	38	39/26	1	9				
OUTGOING FEEDER TO LP/A-1F2	F5/1-5	380	M.C.C.B.		60	PVC/PVC/CU	4C,16 + 1C,16 E	39	29	30/19	0.5	10.5				
OUTGOING FEEDER TO LP/BH-GF1	F5/1-6	380	M.C.C.B.		80	PVC/PVC/CU	3½C,25 + 1C,16 E	38	31	41/27	1	9				
OUTGOING FEEDER TO LP/BH-GF2	F5/1-7	380	M.C.C.B.		80	PVC/PVC/CU	3½C,25 + 1C,16 E	39	31	47/31	1	9				
OUTGOING FEEDER TO LP/A-GF2	F5/1-8	380	M.C.C.B.		80	PVC/PVC/CU	3½C,25 + 1C,16 E	11	35	45/30	0.5	20				
OUTGOING FEEDER TO LP/A-H	F5/1-9	380	M.C.C.B.		80	PVC/PVC/CU	3 C,25 + 1C,16 E	12	38	42/28	0.5	20				
SPARE	–	380	M.C.C.B.		40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.		60	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.		80	–	–	–	–	–	–	–				
LDP/C-GF1												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
MAIN INCOMING FEEDER	F6/1	380	M.C.C.B.	630	630	PVC/PVC/CU	–	–	310	320/213	–	–	0.9	262	36	
OUTGOING FEEDER TO LP/C-GF1	F6/1-1	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	11	31	29/19	0.5	33				
OUTGOING FEEDER TO LP/C-1F1	F6/1-2	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	13	45	45/30	0.5	26				
OUTGOING FEEDER TO LP/C-2F1	F6/1-3	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	49	48	50/33	0.5	16				
OUTGOING FEEDER TO LP/C-R	F6/1-4	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	55	9	9/6	1	3				
OUTGOING FEEDER TO LP/PR-GF	F6/1-5	380	M.C.C.B.	225 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	49	20	20/13	1.5	8				
OUTGOING FEEDER TO LP/P-GF	F6/1-6	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	50	6	8/5	1.5	5				
OUTGOING FEEDER TO LP/B-GF1	F6/1-7	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	52	33	35/23	1.5	10				
OUTGOING FEEDER TO LP/B-1F1	F6/1-8	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	53	59	63/42	1.5	11				
OUTGOING FEEDER TO LP/B-2F1	F6/1-9	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	58	55	59/39	1.5	10				
OUTGOING FEEDER TO LP/B-R1	F6/1-10	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	75	4	5/3	1.5	2				
SPARE	–	380	M.C.C.B.	225 (H)	80	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	225 (H)	80	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	225 (H)	80	–	–	–	–	–	–	–				
LDP/C-GF2												**MINIMUM SHORT CIRCUIT RATING = 35KA**				
MAIN INCOMING FEEDER	F6/2	380	M.C.C.B.	630	630	PVC/PVC/CU	–	–	262	254/169	–	–	0.9	260	34	
OUTGOING FEEDER TO LP/C-2F2	F6/2-1	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	21	33	35/23	1	16				
OUTGOING FEEDER TO LP/C-1F2	F6/2-2	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	11	39	38/25	0.5	16				
OUTGOING FEEDER TO LP/C-GF2	F6/2-3	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	11	35	32/21	0.5	21				
OUTGOING FEEDER TO LP/RH-GF	F6/2-4	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	12	16	18/12	0.5	21				
OUTGOING FEEDER TO LP/B-R2	F6/2-5	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	96	3	4/2	1.5	2				
OUTGOING FEEDER TO LP/B-2F2	F6/2-6	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	92	52	51/34	1.5	10				
OUTGOING FEEDER TO LP/B-1F2	F6/2-7	380	M.C.C.B.	225 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	85	56	53/35	1.5	10				
OUTGOING FEEDER TO LP/B-GF2	F6/2-8	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	78	28	26/17	1.5	10				
SPARE	F6/2-9	380	M.C.C.B.	225 (H)	100											
SPARE	–	380	M.C.C.B.	225 (H)	60	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	225 (H)	60	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	225 (H)	60	–	–	–	–	–	–	–				

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
LDP/C-B												**MINIMUM SHORT CIRCUIT RATING = 50KA**				
MAIN INCOMING FEEDER	F6/3	380	M.C.C.B.	400 (H)	400	PVC/PVC/CU	–	–	138	144/100	–	–	0.9	171	39	
OUTGOING FEEDER TO LP/C-B1	F6/3-1	380	M.C.C.B.	225 (H)	60	PVC/PVC/CU	3½C,25 + 1C,16 E	20	12	11/7	0.5	21				
OUTGOING FEEDER TO LP/C-B2	F6/3-2	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	54	6	6/4	1	3				
OUTGOING FEEDER TO LP/P-B1	F6/3-3	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,35 + 1C,16 E	61	8	11/7	1.5	7				
OUTGOING FEEDER TO LP/OL-B1	F6/3-4	380	M.C.C.B.	225 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	66	23	35/23	2	3				
OUTGOING FEEDER TO LP/SEC-B	F6/3-5	380	M.C.C.B.	225 (H)	60	PVC/PVC/CU	3½C,25 + 1C,16 E	65	17	18/12	1.5	3				
OUTGOING FEEDER TO LP/B-B1	F6/3-6	380	M.C.C.B.	225 (H)	60	PVC/PVC/CU	3½C,25 + 1C,16 E	61	20	15/10	2	5				
OUTGOING FEEDER TO LP/B-B2	F6/3-7	380	M.C.C.B.	225 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	84	31	27/18	2	5				
OUTGOING FEEDER TO LP/B-B3	F6/3-8	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	102	9	11/7	1.5	1				
OUTGOING FEEDER TO LP/B-P	F6/3-9	380	M.C.C.B.	225 (H)	40	PVC/PVC/CU	4C,16 + 1C,16 E	115	12	18/12	–	–				
SPARE	–	380	M.C.C.B.	225 (H)	80	–	–	–	–							
SPARE	–	380	M.C.C.B.	225 (H)	100	–	–	–	–							
LDP/A-B1												**MINIMUM SHORT CIRCUIT RATING = 35KA**				
MAIN INCOMING FEEDER	F5/2	380	M.C.C.B.	400	400	PVC/PVC/CU	–	–	244	269/179	–	–	0.9	212	31	
OUTGOING FEEDER TO LP/K-B1	F5/2-1	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	56	12	12/8	1.5	6				
OUTGOING FEEDER TO LP/OL-B2	F5/2-2	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	14	20	24/16	0.5	10				
OUTGOING FEEDER TO LP/A-B1	F5/2-3	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	10	28	29/19	0.5	10				
OUTGOING FEEDER TO LP/A-GF1	F5/2-4	380	M.C.C.B.	200 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	18	38	36/24	0.5	15				
OUTGOING FEEDER TO LP/ML-GF1	F5/2-5	380	M.C.C.B.	200 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	38	30	39/26	1	8				
OUTGOING FEEDER TO LP/ML-GF2	F5/2-6	380	M.C.C.B.	200 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	39	31	47/31	1	8				
OUTGOING FEEDER TO LP/A-1F1	F5/2-7	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	27	38	38/25	0.5	15				
OUTGOING FEEDER TO LP/A-2F1	F5/2-8	380	M.C.C.B.	200 (H)	100	PVC/PVC/CU	3½C,35 + 1C,16 E	34	47	45/30	1	12				
SPARE	–	380	M.C.C.B.	200 (H)	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	100	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	80	–	–	–	–	–	–	–				
LDP/A-B2												**MINIMUM SHORT CIRCUIT RATING = 25KA**				
MAIN INCOMING FEEDER	F5/3	380	M.C.C.B.	100	100	PVC/PVC/CU	–	–	88	95/62	–	–	0.9	40	9	
OUTGOING FEEDER TO LP/A-B2	F5/3-1	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	55	31	32/21	0.5	6				
OUTGOING FEEDER TO LP/A-B3	F5/3-2	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	41	14	17/11	1	3				
OUTGOING FEEDER TO LP/K-B2	F5/3-3	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	33	16	14/9	1	3				
OUTGOING FEEDER TO LP/TN-B	F5/3-4	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	7	8/5	0.5	3				
OUTGOING FEEDER TO LP/OL-B3	F5/3-5	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	20	24/16	0.5	3				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

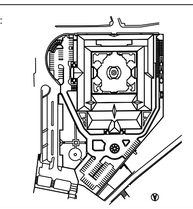
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Panel Boards & Feeder Data 2/4

SHEET NO.
L1202-CD-E-040-A1

Revision NO.
00

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
PDP/A-GF																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F5/4	380	M.C.C.B.	250	250	PVC/PVC/CU	–	–	209	282/188	–	–	0.9	120	20	
OUTGOING FEEDER TO LIFTS "D & E" CONTROL PANEL	F5/4-1	380	M.C.C.B.	100	60	PVC/PVC/CU	4C,16 + 1C,16 E	48	20	24/16	1	4				
OUTGOING FEEDER TO PP/A-2F2	F5/4-2	380	M.C.C.B.	100	80	PVC/PVC/CU	3½C,25 + 1C,16 E	33	33	47/31	1	8				
OUTGOING FEEDER TO PP/A-2F3	F5/4-3	380	M.C.C.B.	100	80	PVC/PVC/CU	3½C,25 + 1C,16 E	71	45	68/45	1	7				
OUTGOING FEEDER TO PP/A-2F4	F5/4-4	380	M.C.C.B.	100	80	PVC/PVC/CU	3½C,25 + 1C,16 E	40	32	48/32	1	7				
OUTGOING FEEDER TO PP/A-1F2	F5/4-5	380	M.C.C.B.	100	63	PVC/PVC/CU	4C,16 + 1C,16 E	37	23	30/20	0.5	6				
OUTGOING FEEDER TO PP/BH-GF	F5/4-6	380	M.C.C.B.	100	80	PVC/PVC/CU	3½C,25 + 1C,16 E	40	42	48/32	1	4				
OUTGOING FEEDER TO PP/A-GF2	F5/4-7	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	12	14	18/12	0.5	10				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	63	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	80	–	–	–	–	–	–	–				
PDP/C-GF1																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F6/4	380	M.C.C.B.	100	80	PVC/PVC/CU	–	–	17	23/15	–	–	0.9	14	16	
OUTGOING FEEDER TO PP/C-GF1	F6/4-1	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	11	11	14/9	0.5	7				
OUTGOING FEEDER TO PP/B-GF1	F6/4-2	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	50	6	9/6	1	4				
OUTGOING FEEDER TO PABX	F6/4-3	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,16 + 1C,16 E	30	15	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
PDP/C-GF2																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F6/5	380	M.C.C.B.	225	125	PVC/PVC/CU	–	–	68	109/73	–	–	0.9	50	15	
OUTGOING FEEDER TO LIFT "K" CONTROL PANEL	F6/5-1	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	36	10	15/10	1.5	4				
OUTGOING FEEDER TO PP/C-GF2	F6/5-2	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	12	11	14/9	0.5	10				
OUTGOING FEEDER TO PP/B-GF2	F6/5-3	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	78	17	25/17	1	4				
OUTGOING FEEDER TO LIFT "N" CONTROL PANEL	F6/5-4	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	97	10	15/10	1.5	4				
OUTGOING FEEDER TO LIFT "M" CONTROL PANEL	F6/5-5	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	85	10	15/10	1.5	4				
OUTGOING FEEDER TO LIFT "L" CONTROL PANEL	F6/5-6	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	90	10	15/10	1.5	4				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
PDP/C-B																MINIMUM SHORT CIRCUIT RATING = 50kA
MAIN INCOMING FEEDER	F6/6	380	M.C.C.B.	250 (H)	200	PVC/PVC/CU	–	–	146	168/112	–	–	0.9	83	36	
OUTGOING FEEDER TO PP/C-B1	F6/6-1	380	M.C.C.B.	100 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	18	37	26/17	0.5	20				
OUTGOING FEEDER TO LIFT "J" CONTROL PANEL	F6/6-2	380	M.C.C.B.	100 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	49	10	15/10	1	5				
OUTGOING FEEDER TO PP/C-B2	F6/6-3	380	M.C.C.B.	100 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	52	7	11/7	0.5	8				
OUTGOING FEEDER TO PP/SEC-B.	F6/6-4	380	M.C.C.B.	100 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	64	18	26/17	1	4				
OUTGOING FEEDER TO LIFTS "G & H" CONTROL PANEL	F6/6-5	380	M.C.C.B.	100 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	97	20	24/16	1.5	4				
OUTGOING FEEDER TO PP/B-B2	F6/6-6	380	M.C.C.B.	100 (H)	80	PVC/PVC/CU	3½C,25 + 1C,16 E	82	44	55/35	2	4				
OUTGOING FEEDER TO LIFT "I" CONTROL PANEL	F6/6-7	380	M.C.C.B.	100 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	110	10	15/10	1.5	4				
SPARE	–	380	M.C.C.B.	100 (H)	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100 (H)	60	–	–	–	–	–	–	–				
OUTGOING FEEDER TO CONTROL ROOM IN GF	F6/6-10	380	M.C.C.B.	100 (H)	80	PVC/PVC/CU	3½C,35 + 1C,16 E	30	10	–	–	–				
PDP/A-B1																MINIMUM SHORT CIRCUIT RATING = 35kA
MAIN INCOMING FEEDER	F5/5	380	M.C.C.B.	400	400	PVC/PVC/CU	–	–	250	318/212	–	–	0.9	184	31	
OUTGOING FEEDER TO PDP/K-B1	F5/5-1	380	M.C.C.B.	250	200	PVC/PVC/CU	3½C,95 + 1C,50 E	58	90	108/72	0.5	14				
OUTGOING FEEDER TO PDP/L-B1	F5/5-2	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	3½C,70 + 1C,35 E	20	70	84/56	0.5	14				
OUTGOING FEEDER TO PP/A-B1	F5/5-3	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	16	16	23/15	0.5	10				
OUTGOING FEEDER TO PP/ML-GF	F5/5-4	380	M.C.C.B.	200 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	42	18	26/17	1	8				
OUTGOING FEEDER TO PP/A-1F1	F5/5-5	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	29	13	20/13	1	5				
OUTGOING FEEDER TO PP/A-2F1	F5/5-6	380	M.C.C.B.	200 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	38	13	20/13	1	5				
OUTGOING FEEDER TO LIFTS" "A & B" CONTROL PANEL	F5/5-7	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,16 + 1C,16 E	48	20	24/16	1	5				
OUTGOING FEEDER TO LIFT "C" CONTROL PANEL	F5/5-8	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,16 + 1C,16 E	48	10	15/10	1	5				
OUTGOING FEEDER TO FOUNTAIN	F5/5-9	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,16 + 1C,16 E	100	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	60	–	–	–	–	–	–	–				
PDP/A-B2																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F5/6	380	M.C.C.B.	250	250	PVC/PVC/CU	–	–	196	246/164	–	–	0.9	123	20	
OUTGOING FEEDER TO PP/A-B2	F5/6-1	380	M.C.C.B.	100	80	PVC/PVC/CU	3½C,25 + 1C,16 E	55	37	60/37	0.5	10				
OUTGOING FEEDER TO DP/K-B2	F5/6-2	380	M.C.C.B.	250	200	PVC/PVC/CU	3½C,95 + 1C,50 E	35	87	105/70	0.5	16				
OUTGOING FEEDER TO DP/L-B2	F5/6-3	380	M.C.C.B.	200	160	PVC/PVC/CU	3½C,70 + 1C,35 E	27	72	86/57	0.5	14				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	80	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200	160	–	–	–	–	–	–	–				

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm²	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
SUP/A-GF																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F5/7-3	380	M.C.C.B.	100	80	PVC/PVC/CU	–	–	46	54/36	–	–	0.7	25	8	
OUTGOING FEEDER TO EUP/A-2F2	F5/7-31	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	33	5	6/4	0.5	4				
OUTGOING FEEDER TO EUP/A-2F3	F5/7-32	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	71	6	8/5	1	4				
OUTGOING FEEDER TO EUP/A-2F4	F5/7-33	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	40	12	14/9	1	4				
OUTGOING FEEDER TO EUP/A-1F2	F5/7-34	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	37	7	8/5	0.5	4				
OUTGOING FEEDER TO EUP/BH-GF	F5/7-35	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	42	4	6/4	1	4				
OUTGOING FEEDER TO EUP/A-GF2	F5/7-36	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	8	12	14/9	0.5	4				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SUP/C-GF1																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F5/7-1	380		200	160	PVC/PVC/CU	–	–	106	96/64	–	–	0.7	58	18	
OUTGOING FEEDER TO EUP/C-GF1	F5/7-11	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	12	11	9/6	0.5	10				
OUTGOING FEEDER TO EUP/C-1F1	F5/7-12	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	17	13	11/7	0.5	7				
OUTGOING FEEDER TO EUP/C-2F1	F5/7-13	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	19	17/11	0.5	7				
OUTGOING FEEDER TO EUP/PR-GF	F5/7-14	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	18	14/9	1	4				
OUTGOING FEEDER TO EUP/B-GF1	F5/7-15	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	6	8/5	1	4				
OUTGOING FEEDER TO EUP/B-1F1	F5/7-16	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	55	20	20/13	1.5	4				
OUTGOING FEEDER TO EUP/B-2F1	F5/7-17	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	57	19	20/13	1.5	4				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SUP/C-GF2																MINIMUM SHORT CIRCUIT RATING = 25kA
MAIN INCOMING FEEDER	F5/7-2	380		200	160	PVC/PVC/CU	–	–	114	90/60	–	–	0.7	62	14	
OUTGOING FEEDER TO EUP/C-2F2	F5/7-21	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	19	12	11/7	1	7				
OUTGOING FEEDER TO EUP/C-1F2	F5/7-22	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	12	23	17/11	0.5	10				
OUTGOING FEEDER TO EUP/C-GF2	F5/7-23	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	14	19	15/10	0.5	10				
OUTGOING FEEDER TO EUP/RH-GF	F5/7-24	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	11	6	8/5	0.5	10				
OUTGOING FEEDER TO EUP/B-2F2	F5/7-25	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	94	20	15/10	2	4				
OUTGOING FEEDER TO EUP/B-1F2	F5/7-26	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	88	23	17/11	2	4				
OUTGOING FEEDER TO EUP/B-GF2	F5/7-27	380		100	40	PVC/PVC/CU	4C,10 + 1C,10 E	78	11	9/6	2	4				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				
SPARE	–	380		100	40	–	–	–	–	–	–	–				

OWNER NAME:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

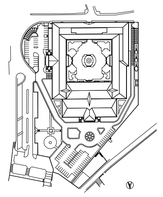
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards & Feeder Data 3/4

SHEET NO.
L1202-CD-E-041-A1

Revision NO.
00

DISTRIBUTION BOARDS & FEEDER DATA SCHEDULES

FEEDER			PROTECTION DATA			FEEDER DATA			FEEDER LOAD				DISTRIBUTION BOARD / PANEL			REMARKS
DESIGNATION	REF. No	VOLTS	TYPE	FRAME SIZE Amp.	TRIP RATING Amp.	TYPE	SIZE mm 2	APPROX. LENGTH m	CONNECTED kVA	DEMAND Amp/kVA	VOLTAGE DROP %	SHORT CT AT FEEDER END (kA)	DIVERSITY FACTOR	MAX EXP DEMAND kVA	SHORT CIRCUIT ICC (kA)	
SUP/A-B1																**MINIMUM SHORT CIRCUIT RATING = 25KA**
MAIN INCOMING FEEDER	F6/7-2	380	M.C.C.B.	100	100	PVC/PVC/CU	–	–	48	54/36	–	–	0.9	36	9	
OUTGOING FEEDER TO EUP/A-B1	F6/7-21	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	22	8	10/7	0.5	4				
OUTGOING FEEDER TO EUP/A-GF1	F6/7-22	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	11	9	9/6	0.5	4				
OUTGOING FEEDER TO EUP/ML-GF	F6/7-23	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	40	4	6/4	2	4				
OUTGOING FEEDER TO EUP/A-1F1	F6/7-24	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	28	6	8/5	0.5	4				
OUTGOING FEEDER TO EUP/A-2F1	F6/7-25	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	35	11	12/8	1.2	4				
OUTGOING FEEDER TO EUP/A-B2	F6/7-26	380	M.C.C.B.	100	40	PVC/PVC/CU	4C,10 + 1C,10 E	42	10	9/6	0.5	4				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	100	40	–	–	–	–	–	–	–				
SUP/C-B																**MINIMUM SHORT CIRCUIT RATING = 35KA**
MAIN INCOMING FEEDER	F6/7-1	380	M.C.C.B.	200 (H)	160	PVC/PVC/CU	–	–	42	44/29	–	–	0.9	68	29	
OUTGOING FEEDER TO EUP/C-B1	F6/7-11	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	23	3	8/3	0.5	11				
OUTGOING FEEDER TO EUP/C-B2	F6/7-12	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	51	3	3/2	0.5	5				
OUTGOING FEEDER TO EUP/B-B1	F6/7-13	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	97	4	5/3	2	4				
OUTGOING FEEDER TO EUP/B-B2	F6/7-14	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,10 + 1C,10 E	81	9	9/6	2	4				
OUTGOING FEEDER TO EUP/CH-B1	F6/7-15	380	M.C.C.B.	200 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	56	5	8/5	1	8				
OUTGOING FEEDER TO EUP/CH-B2	F6/7-16	380	M.C.C.B.	200 (H)	60	PVC/PVC/CU	4C,16 + 1C,16 E	56	12	8/5	1	8				
OUTGOING FEEDER TO EUP/B-P	F6/7-17	380	M.C.C.B.	200 (H)	40	PVC/PVC/CU	4C,16 + 1C,16 E	115	6	8/5	1	8				
SPARE	–	380	M.C.C.B.	200 (H)	40	–	–	–	–	–	–	–				
SPARE	–	380	M.C.C.B.	200 (H)	60	–	–	–	–	–	–	–				

OWNER NAME:

CLIENT:

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PROJECT NAME: REHABILITATION OF GRAND SERAIL

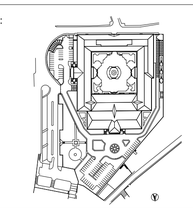
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Panel Boards & Feeder Data 4/4

SHEET NO. L1202-CD-E-042-A1

Revision NO. 00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-B1
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B058.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B028	2.5	7			1 15 / 2 20	–			–	SPARE
LIGHTING B028	2.5		3.5		3 15 / 4 20		7.5		4	SOCKET B028
LIGHTING B048	2.5			7	5 15 / 6 20			6.5	4	SOCKET B048,B045,B046
LIGHTING B048	2.5	7			7 15 / 8 20	–	–	–	–	SPARE
LIGHTING B026	2.5		7		9 15 / 10 20		5.5		4	SOCKET B026
LIGHTING B025	2.5			7	11 15 / 12 20			5.5	4	SOCKET B025,B023
LIGHTING B020	2.5	7			13 15 / 14 20	5			4	SOCKET B020,B021
LIGHTING B045–B046	2.5		4		15 15 / 16 20		6.5		4	SOCKET B055,B056
LIGHTING B055–B056	2.5			4	17 15 / 18 20			3	4	SOCKET B057,B058
LIGHTING B049–B050–B051 B053–B054–B057	2.5	5.5			19 15 / 20 20	8.5			4	SOCKET B053,B054,B050
LIGHTING B026	2.5		5.5		21 15 / 22 20		–		–	SPARE
LIGHTING B025–B021–B022–B023	2.5			8	23 15 / 24 20				–	SPARE
LIGHTING B020	2.5	3.5			25 15 / 26 20	–			–	SPACE
LIGHTING B020	2.5		1		27 15 / 28 20		–		–	SPACE
SPARE	–			–	29 15 / 30 20			–	–	SPACE
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		30	21	26		13.5	19.5	15		
TOTAL AMPS (CONNECTED)		43.5	40.5	41						

F5/2–3
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 28 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	17	–	11	–	28
DEM. FACTOR	0.8	–	0.4	–	
DEMAND kVA	14	–	4.5	–	18.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-B2
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B019a.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B034,B035	4	10			1 15 / 2 20	8.5			4	SOCKET B034,B035,B036
LIGHTING B031–B032	4		9		3 15 / 4 20		5.5		4	SOCKET B031,B032
LIGHTING B042,B043,B039,B040	2.5			7	5 15 / 6 20			9.5	4	SOCKET B042,B043,B039,B040
LIGHTING B037–B038	2.5	5			7 15 / 8 20	5			4	SOCKET B038
LIGHTING B029	2.5		7		9 15 / 10 20		5		4	SOCKET B030
LIGHTING B029	2.5			5	11 15 / 12 20			6	4	SOCKET B012–B015
LIGHTING B027	2.5	7			13 15 / 14 20	4			4	SOCKET B016,B017,B018
LIGHTING B019	2.5		7		15 15 / 16 20		8.5		4	SOCKET B019,B027,B029
LIGHTING B019	2.5			7	17 15 / 18 20			2	4	SOCKET R11 B009
LIGHTING B017–B010–B012 B013–B015	2.5	7			19 15 / 20 20	–			–	SPARE
LIGHTING B030	2.5		5		21 15 / 22 20		–		–	SPARE
LIGHTING B027	2.5			6	23 15 / 24 20			–	–	SPARE
LIGHTING B009	2.5	3			25 15 / 26 20	–			–	SPACE
LIGHTING B012	2.5		3		27 15 / 28 20		–		–	SPACE
LIGHTING B019	2.5			3	29 15 / 30 20			–	–	SPACE
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		29	31	28		17.5	19	17.5		
TOTAL AMPS (CONNECTED)		46.5	50	45.5						

F5/3–1
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 30.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	19	–	11.5	–	30.5
DEM. FACTOR	0.8	–	0.4	–	
DEMAND kVA	15.5	–	5	–	20.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-B3
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B095.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B095,B097,B096,B098	2.5	2.5			1 15 / 2 20	4			4	SOCKET B095,B098,B099
LIGHTING B099,B109,B108,B107	2.5		4		3 15 / 4 20		8.5		4	SOCKET B107,B108,B109
LIGHTING B100,B105,B106	2.5			3	5 15 / 6 20			8.5	4	SOCKET B101,B102,B103,B104
LIGHTING B101,B102,B103,B104	2.5	3			7 15 / 8 20	9			4	
SPARE	–		–		9 15 / 10 20		9		4	AHU–B4 B077
SPARE	–			–	11 15 / 12 20			9	4	
SPACE	–	–			13 15 / 14 20	–			–	SPARE
SPACE	–		–		15 15 / 16 20		–		–	SPARE
SPACE	–			–	17 15 / 18 20			–	–	SPARE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		5.5	4	3		1.5	17.5	17.5		
TOTAL AMPS (CONNECTED)		18.5	21.5	20.5						

F5/3–2
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 14 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3	6	5	–	14
DEM. FACTOR	0.8	1	0.4	–	
DEMAND kVA	2.5	6	2	–	10.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-B1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B058.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B028	2.5	3			1 15 / 2 20	7.5			2.5	LIGHTING ST2
LIGHTING B047,B048	2.5		4		3 15 / 4 20		2		2.5	ENCL. K Rm B058
LIGHTING B024,B025,B026	2.5			6	5 15 / 6 20			5.5	4	SOCKET B021,B025
LIGHTING B020,ST1	2.5	4			7 15 / 8 20	1			2.5	GAS DETECTION PANEL
LIGHTING B052–B070–B062a/b B063a/b	2.5		3		9 15 / 10 20		–		–	SPARE
LIGHTING B058	2.5			1	11 15 / 12 20			–	–	SPARE
					13 / 14					
					15 / 16					
					17 / 18					
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		7	7	7		8.5	2	5.5		
TOTAL AMPS (CONNECTED)		15.5	9	12.5						

F6/7–21
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 8 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	6.5	–	1.5	–	8
DEM. FACTOR	0.8	–	0.4	–	
DEMAND kVA	5.5	–	1	–	6.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-B2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B019a
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B033,B030,B036	2.5	5.5			1 15 / 2 20	5.5			4	SOCKET B031,B034
LIGHTING B041,B038,B044	2.5		3.5		3 15 / 4 20		5.5		2.5	CONTROLLABLE SOCKETS B042,B039
LIGHTING B029	2.5			1.5	5 15 / 6 20			8.5	4	SOCKET B110,B012,B015
LIGHTING B019	2.5	3			7 15 / 8 20	2			2.5	LIGHT Rm B009
LIGH. B016–B081–B096–B111 B011–B014–B097–B105–B106	2.5		5.5		9 15 / 10 20		2		2.5	GAZ DETECTION
LIGHTING ST3	2.5			3	11 15 / 12 20			2	2.5	ENCL.–F Rm B016
SPARE	–	–			13 15 / 14 20	–			–	SPARE
SPARE	–		–		15 15 / 16 20		–		–	SPARE
SPARE	–			–	17 15 / 18 20			–	–	SPARE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		8.5	9	4.5		7.5	7.5	10.5		
TOTAL AMPS (CONNECTED)		16	16	15						

F6/7–26
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 9.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5	–	4.5	–	9.5
DEM. FACTOR	0.8	–	0.4	–	
DEMAND kVA	4	–	2	–	6

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/K-B1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B071.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B071–B069–B068 B073–B067–B064	2.5	5.5			1 15 / 2 20	5			4	SOCKET B071–B067–B068–B073
LIGHTING B059	2.5		10		3 15 / 4 20		7.5		4	SOCKET B059
LIGHTING B060,B061,B062,B063	2.5			4.5	5 15 / 6 20			7.5	4	SOCKET B059
LIGHTING B072	2.5	2.5			7 15 / 8 20	5.5			4	SOCKET B060
SPARE	–		–		9 15 / 10 15		2.5		2.5	FCU–B7 B068
FCU SS11	2.5			2.5	11 15 / 12 20			–	–	SPARE
SPARE	–	–			13 15 / 14	–			–	SPACE
SPARE	–		–		15 20 / 16		–		–	SPACE
SPARE	–			–	17 20 / 18			–	–	SPACE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		8	10	6.5		10.5	10	7.5		
TOTAL AMPS (CONNECTED)		10.5	10	7.5						
		18.5	20	14						

F5/2–1
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 12 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5.5	0.5	6	–	12
DEM. FACTOR	0.8	1	0.4	–	
DEMAND kVA	4.5	0.5	2.5	–	7.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/K-B2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B082.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B082–B085–B080 B077–B083–B079–B076	2.5	5.5			1 15 / 2 20	6.5			4	SOCKET B082,B085,B078 B083–B088–B077
LIGHTING B074	2.5		2		3 15 / 4 20		9.5		4	SOCKET B092,B094
LIGHTING B091,B090,B089	2.5			5	5 15 / 6 20			5	4	SOCKET B091,B090
LIGHTING B092,B093,B094	2.5	4			7 15 / 8 20	5.5			4	SOCKET B088,B094
LIGHTING B088	2.5		8		9 15 / 10 20		5.5		4	SOCKET B088,B094
LIGHTING MEZZANINE	2.5			1	11 15 / 12 20			9.5	4	SOCKET B088,B094
SPARE	–	–			13 15 / 14	2.5			2.5	FCU–B10 B082
SPARE	–		–		15 15 / 16 20		–		–	ELEC. DOOR
SPARE	–			–	17 15 / 18 20			–	–	FCU SS18
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		9.5	10	6		14.5	16	14.5		
TOTAL AMPS (CONNECTED)		14.5	16	14.5						
		24	26	20.5						

F5/3–3
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 15.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5.5	0.5	9.5	–	15.5
DEM. FACTOR	0.8	1	0.4	–	
DEMAND kVA	4.5	0.5	4	–	9

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/DL-B3
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A), Rm B110.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	10	4			1 15 / 2 15	7			10	
EXT. LIGHTING S1+S2+S3 (4pcs + 4pcs + 3pcs)	10		3.5		3 15 / 4		6		10	EXT. LIGHTING P3+P4 (8pcs + 2pcs)
	10			3	5 15 / 6			6	10	
	16	4.5			7 15 / 8 15	7			10	
EXT. LIGHTING P7 (8 PCS)	16		7		9 15 / 10		7		10	EXT. LIGHTING P7 (9 pcs)
	16			7	11 15 / 12			7	10	
SPARE					13 15 / 14					SPACE
SPARE					15 15 / 16					SPACE
SPARE					17 15 / 18					SPACE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		8.5	10.5	10		14	13	13		
TOTAL AMPS (CONNECTED)		14	13	13						
		22.5	23.5	23						

F5/3–5
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 15.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	15.5				15.5
DEM. FACTOR	1				
DEMAND kVA	15.5				15.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-B1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL
LOCATION BASEMENT (ZONE A),Rm B058.
VOLTAGE & FREQ. 380/220V,50Hz.
S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SOCKET B049	4	5.5			1 20 / 2 20	5			2.5	FCU–B1 B051
COOKER TYPE 2 B049	6		14		3 20 / 4		2.5		2.5	FCU–B6 B021
HOOD B049	2.5			2.5	5 15 / 6 20			–	–	SPARE
FRIDGE TYPE 2 B049	2.5	4			7 15 / 8 20	11.5			6	
SPARE	–		–		9 15 / 10		11.5		6	AHU–B1 B018
SPARE	–			–	11 15 / 12			11.5	6	
SPARE	–	–			13 20 / 14	–			–	SPACE
SPARE	–		–		15 20 / 16		–		–	SPACE
SPARE	–			–	17 20 / 18			–	–	SPACE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		9.5	14	2.5		16.5	14	11.5		
TOTAL AMPS (CONNECTED)		16.5	14	11.5						
		26	28	14						

F5/5–3
4x10+1C10
40/100 AMPS TRIP/FRAME

TOTAL CONNECTED LOAD 15.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			1.5	14	15.5
DEM. FACTOR			0.4	1	
DEMAND kVA			1	14	15

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

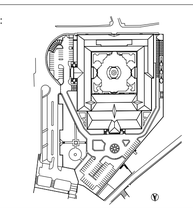
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-1

SHEET NO.
L1202-CD-E-043-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-B2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE A), Rm B019a.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
PANTRY-B014/COOKER TYPE 2	6	14			1 20 / 3 15	15 / 4	4.5		4	FCU-B2/B032
HOOD	2.5		2.5		3 15 / 5 15	15 / 6		2.5	2.5	FCU-B3/B043
FRIDGE TYPE 2 B014	2.5			4	5 15 / 7 30	15 / 8		2.5	2.5	FCU-B4/B040
	6	11.5			7 30 / 9 15	15 / 10	4.5		4	FCU-B5/B035
AHU-B3/MEZZANINE/B092	6		11.5		9 15 / 11 30	15 / 12		1	2.5	FCU-B8/B015
	6			11.5	11 30 / 13 60	15 / 14	–	1	2.5	FCU-B9/B012
	16	31			13 60 / 15 60	15 / 16	–	–	–	SPARE
AHU-B2 Rm B017	16		31		15 60 / 17 60	15 / 18	–	–	–	SPARE
	16			31	17 60 / 19 60	15 / 20	–	–	–	SPARE
SPARE					21 60	15 / 22				SPACE
SPARE					23 60	15 / 24				SPACE
SPARE					25	15 / 26				SPACE

SUBTOTALS (AMPS)	56.5	45	46.5	9	3.5	3.5
TOTAL AMPS (CONNECTED)	65.5	48	49.5			

80/100 AMPS TRIP/FRAME — F5/6-1 — 3 1/2x25+1C16

TOTAL CONNECTED LOAD 37 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				37	37
DEM. FACTOR				1	
DEMAND kVA				37	37

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-B1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B133.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B134	2.5	1			1 15 / 3 15	30 / 2	14		6	SOCKET B132a
LIGHTING B134	2.5		4.5		3 15 / 5 15	20 / 4		5	4	SOCKET B132b,B010,B134
LIGHTING B132,B132a,B132b	2.5			5.5	5 15 / 7 15	20 / 6		5	4	SOCKET B131,B132
SPARE	–	–			7 15 / 9 15	20 / 8	–		–	SPARE
LIGHTING B131,B132c	2.5	4			9 15 / 11 15	20 / 10		2	4	SOCKET B133
FCU-B19 B131	2.5			1.5	11 15 / 13 15	20 / 12			3	4	SOCKET B134
SPARE	–	–			13 15 / 15 15	30 / 14	14		6	
SPARE	–		–		15 15 / 17 15	20 / 16		14	6	SOCKET B132a
SPARE	–			–	17 15 / 19 15	20 / 18			14	6	
					21	20 / 22				

SUBTOTALS (AMPS)	1	8.5	7	28	21	22
TOTAL AMPS (CONNECTED)	29	29.5	29			

60/100 AMPS TRIP/FRAME — F6/3-6 — 3 1/2x25+1C16

TOTAL CONNECTED LOAD 20 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3.5		16	0.5	20
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	3		6.5	0.5	10

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-B2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B177.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B165	2.5	4			1 15 / 3 15	20 / 2	5		4	SOCKET B165
LIGHTING B165	2.5		4.5		3 15 / 5 15	20 / 4		5.5	4	SOCKET B156
LIGHTING B165	2.5			4.5	5 15 / 7 15	20 / 6		–	–	SPARE
LIGHTING B157	2.5	5.5			7 15 / 9 15	20 / 8	–		–	SPARE
LIGHTING B157	2.5		5.5		9 15 / 11 15	20 / 10		5	4	SOCKET B157
LIGHTING B157	2.5			5.5	11 15 / 13 15	20 / 12		5	4	SOCKET B157
SPARE	–	–			13 15 / 15 15	20 / 14	5.5		4	SOCKET B157
LIGHTING B159,160,161,164,166 167,168	2.5		3		15 15 / 17 15	20 / 16		5.5	4	SOCKET B157
LIGHTING B163,170	2.5			4.5	17 15 / 19 15	20 / 18			5.5	4	SOCKET B163
LIGHTING B188,186	2.5	5			19 15 / 21 15	20 / 20	5.5		4	SOCKET B170
LIGHTING B174	2.5		3		21 15 / 23 15	20 / 22		4	4	SOCKET B155
LIGHTING B172,B173	2.5			3	23 15 / 25 15	20 / 24			5	4	SOCKET B188
SPARE	–	–			25 15 / 27 15	20 / 26	6.5		4	SOCKET B174-174a
LIGHTING B154	2.5		7		27 15 / 29 15	20 / 28		5	4	SOCKET B172,B173
LIGHTING B178,179,183,184,185 176,180	2.5			5	29 15 / 31 15	20 / 30			5.5	4	SOCKET B177,B178
SPARE	–	–			31 15 / 33 15	20 / 32	3		4	SOCKET B154-B183
SPARE	–		–		33 15 / 35 20	20 / 34		–	–	SPARE
SPARE	–			–	37	20 / 36		–	–	SPARE

SUBTOTALS (AMPS)	14.5	23	19.5	31	25	26.5
TOTAL AMPS (CONNECTED)	45.5	48	46			

80/100 AMPS TRIP/FRAME — F6/3-7 — 3 1/2x25+1C16

TOTAL CONNECTED LOAD 31 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	12.5		18.5		31
DEM. FACTOR	0.8		0.4		
DEMAND kVA	10		7.5		18

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/SEC-B
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B124	2.5	4.5			1 15 / 3 15	20 / 2	4		4	SOCKET B130,B124a,B124b
LIGHTING B124	2.5		4		3 15 / 5 15	20 / 4		3	4	SOCKET B129
LIGHTING B125	2.5			4.5	5 15 / 7 15	20 / 6			4	4	SOCKET B007
LIGHTING B125	2.5	7			7 15 / 9 15	20 / 8	8		4	SOCKETS B002,B003,B006
LIGHTING B126,B127,B128	2.5		4		9 15 / 11 15	20 / 10		–	–	SPARE
LIGHTING B129	2.5			8.5	11 15 / 13 15	20 / 12		–	–	SPARE
LIGHTING B007	2.5	4			13 15 / 15 15	20 / 14	–		–	SPARE
LIGHTING B001	2.5		4		15 15 / 17 15	15 / 16		–	–	SPARE
LIGHTING B002,B003,B004	2.5			5	17 15 / 19 15	15 / 18		–	–	SPARE
LIGHTING B006	2.5	4			19 15 / 21 15	– / 20	–		–	SPACE
LIGHTING B006	2.5		4		21 15 / 23 15	– / 22		–	–	SPACE
LIGHTING B130,B124a,B124b	2.5			2.5	23 15 / 25	– / 24		–	–	SPACE

SUBTOTALS (AMPS)	19.5	16	20.5	14	3	4
TOTAL AMPS (CONNECTED)	31.5	19	24.5			

60/100 AMPS TRIP/FRAME — F6/3-5 — 3 1/2x25+1C16

TOTAL CONNECTED LOAD 17 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	12.5		4.5		17
DEM. FACTOR	0.8		0.4		
DEMAND kVA	10		2		12

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/OL-B2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE A),Rm B058
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	10	1.5			1 15 / 3 15	15 / 2	7		16	
EXT. LIGHTING P6 (14 pcs.)	10		1.5		3 15 / 5 15	15 / 4		7	16	EXT. LIGHTING P5 (8 pcs.)
	10			1.5	5 15 / 7 15	15 / 6			4.5	16
	10	3			7 15 / 9 15	15 / 8	7		16	
EXT. LIGHTING P8 (11 pcs.)	10		3		9 15 / 11 15	15 / 10		7	16	EXT. LIGHTING P7 (8 pcs.)
	10			2.5	11 15 / 13 20	15 / 12			4.5	16
	16	8			13 20 / 15 20	15 / 14	4.5		10	
EXT. LIGHTING S1+S2+S3+S4	16		9.5		15 20 / 17 20	15 / 16		2.5	10	EXT. LIGHTING P3 (5pcs.)
	16			8.5	17 20 / 19 20	15 / 18			4.5	10
SPARE					19 20 / 21 15	15 / 20				SPACE
SPARE					21 15 / 23 15	15 / 22				SPACE
SPARE					23 15 / 25	15 / 24				SPACE

SUBTOTALS (AMPS)	12.5	14	12.5	18.5	6.5	13.5
TOTAL AMPS (CONNECTED)	18.5	6.5	13.5			
	31	30.5	26			

40/100 AMPS TRIP/FRAME — F5/3-5 — 4x10+1C10

TOTAL CONNECTED LOAD 19.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	19.5				19.5
DEM. FACTOR	1				
DEMAND kVA	19.5				19.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-B3
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B116.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B113,114,117	2.5	4.5			1 15 / 3 15	20 / 2	4		4	SOCKET B117
LIGHTING B116,121,122,123	2.5		3.5		3 15 / 5 15	20 / 4		4	4	SOCKET B122,123
LIGHTING B118,119,120	2.5			4.5	5 15 / 7 15	20 / 6			5	4	SOCKET B114,116,119,120
LIGHTING (STORAGE)	2.5	4.5			7 15 / 9 15	15 / 8	3			2.5	FCU:B12 B114
SPARE	–		–		9 15 / 11 15	15 / 10		3		2.5	FCU:B13 B117
SPARE	–			–	11 20 / 13 20	20 / 12			–	4	MOTORIZED DOOR
SPARE	–	–			13 15 / 15	15 / 14	–			–	SPACE
SPARE	–		–		15 15 / 17 15	15 / 16		–		–	SPACE
SPARE	–			–	17 15 / 19	15 / 18			–	–	SPACE
					21	20 / 20					

SUBTOTALS (AMPS)	9	3.5	4.5	7	7	5
TOTAL AMPS (CONNECTED)	16	10.5	9.5			

40/100 AMPS TRIP/FRAME — F6/3-8 — 4x10+1C10

TOTAL CONNECTED LOAD 8.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4	1.5	3		8.5
DEM. FACTOR	0.8	1	0.4		
DEMAND kVA	3.5	1.5	1.5		6.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/P-B1
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B133.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B009	2.5	5			1 15 / 3 15	20 / 2	4		4	SOCKET B008,B074
LIGHTING B009	2.5		3		3 15 / 5 15	20 / 4		2	4	SOCKET B009
LIGHTING B008	2.5			4	5 15 / 7 15	20 / 6			–	–	SPARE
LIGHTING B008	2.5	4			7 15 / 9 15	20 / 8	–			–	SPARE
LIGHTING B008	2.5		3		9 15 / 11 15	20 / 10		–		–	SPARE
LIGHTING B008	2.5			4	11 15 / 13 15	20 / 12			–	–	SPARE
SPARE	2.5	–			13 15 / 15 15	20 / 14	–			–	SPARE
LIGHTING B008	2.5		4		15 15 / 17 15	20 / 16		–		–	SPARE
LIGHTING B074,B075	2.5			1	17 15 / 19 15	20 / 18			–	–	SPARE
SPARE	–	–			19 15 / 21 15	20 / 20	–			–	SPARE
SPARE	–		–		21 15 / 23 15	20 / 22		–		–	SPARE
SPARE	–			–	23 15 / 25 15	20 / 24			–	–	SPARE
SPARE	–	–			25 15 / 27 15	20 / 26	–			–	SPARE
SPARE	–		–		27 15 / 29 15	20 / 28		–		–	SPARE
SPARE	–			–	29 15 / 31	20 / 30			–	–	SPARE
	–	–			31	20 / 32	–			–	
	–		–		33	20 / 34		–		–	
	–			–	35	20 / 36			–	–	
	–	–			37	20 / 38	–			–	
	–		–		39	20 / 40		–		–	
	–			–	41	20 / 42			–	–	

SUBTOTALS (AMPS)	9	10	9	4	2	–
TOTAL AMPS (CONNECTED)	13	12	9			

80/100 AMPS TRIP/FRAME — F6/3-3 — 3 1/2x35+1C16

TOTAL CONNECTED LOAD 8 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	6.5		1.5		8
DEM. FACTOR	0.8		0.4		
DEMAND kVA	5.5		1		6.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/OL-B1
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B133.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	16	4.5			1 15 / 3	15 / 2	3		16	
EXT. LIGHTING P4 (8 pcs.)	16		4.5		3 15 / 5	20 / 4		3	16	EXT. LIGHTING S1+S2 (8pcs + 3pcs)
	16			3	5 15 / 7	20 / 6			3	16
	10	1.5			7 15 / 9	20 / 8	10.5		16	
EXT. LIGHTING P6 (16 pcs.)	10		1.5		9 15 / 11	20 / 10		11.5	16	EXT. LIGHTING P1+P2+P3 (3pcs + 1pc + 5pcs)
	10			2	11 15 / 13	20 / 12			12.5	16
	10	3			13 15 / 15	15 / 14	4.5		16	
EXT. LIGHTING P8 (12 pcs.)	10		3		15 15 / 17	15 / 16		4.5	16	EXT. LIGHTING P7 (7 pcs.)
	10			3	17 15 / 19	15 / 18			7	16
SPARE					19 15 / 21	15 / 20	7		16	
SPARE					21 15 / 23	15 / 22		7	16	EXT. LIGHTING P7 (8 pcs.)
SPARE					23 15 / 25	15 / 24			4.5	16

SUBTOTALS (AMPS)	9	9	8	25	26	27
TOTAL AMPS (CONNECTED)	34	35	35			

60/100 AMPS TRIP/FRAME — F6/3-4 — 4x10+1C10

TOTAL CONNECTED LOAD 23 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	23				23
DEM. FACTOR	1				
DEMAND kVA	23				23

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/TN-B
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE A), Rm B110.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B110, B111	2.5	2			1 15 / 3 15	20 / 2	2		4	SOCKET B110
LIGHTING ZONE B STORE	2.5		2		3 15 / 5 15	20 / 4		2	4	ZONE B TUNEL
ENTRANCE	2.5				5 15 / 7 20	15 / 6			2	2.5	FCU-B11 / B110
TUNEL	4	2			7 20 / 9 20	20 / 8	3		4	WALL LIGHTS
"	4		2		9 20 / 11 20	20 / 10		–		SPARE
"	4			2	11 20 / 13 20	20 / 12			–	SPARE
"	4	2			13 20 / 15 20	20 / 14	6		4	
"	4		2		15 20 / 17 20	20 / 16		6	4	ELEC.DOOR
"	4			2	17 20 / 19	20 / 18			6	4	
					21	20 / 22				

SUBTOTALS (AMPS)	6	6	6	11	8	8
TOTAL AMPS (CONNECTED)	11	8	8			
	17	14	14			

40/100 AMPS TRIP/FRAME — F5/3-4 — 4x10+1C10

TOTAL CONNECTED LOAD 9 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4	4	1		9
DEM. FACTOR	0.8	1	0.4		
DEMAND kVA	322	5	0.5		8.7

OWNER NAME:

CLIENT:

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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

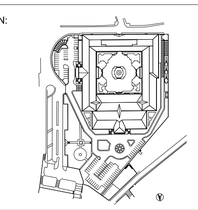
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-2

SHEET NO. L1202-CD-E-044-A1

Revision NO. 00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/Sec-B
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B133.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
PANTRY B128-SOCKETS	4	3			1 20 / 2 15	1.5			4	FCU-B18 B130
PANTRY B004-COOKER-type2	6		14		3 20 / 4 15		4		4	FCU-B20 B124
PANTRY B004-HOOD	2.5			2.5	5 15 / 6 15			4	4	FCU-B20 B124
PANTRY B004-FRIDGE-type2	2.5	4			7 15 / 8 15	–			–	SPARE
PANTRY B004-SOCKETS	4		2		9 20 / 10 20		7		4	FCU-B15 B126
PANTRY B128-COOKER-type2	6			14	11 20 / 12 15			1.5	4	FCU-B21 B007
PANTRY B128-HOOD	2.5	2.5			13 15 / 14 20	4.5			4	FCU B002,B006,B021
PANTRY B128-FRIDGE-type2	2.5		4		15 15 / 16 20		4.5		4	FCU B006,B021
SPARE	–			–	17 15 / 18 20			–	–	SPARE
SPARE	–	–			19 15 / 20 –	–			–	SPACE
SPARE	–		–		21 20 / 22 –		–		–	SPACE
SPARE	–			–	23 20 / 24 –			–	–	SPACE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		9.5	20	16.5		10	15.5	5.5		F6/6-4
TOTAL AMPS (CONNECTED)		19.5	35.5	22	40/100 AMPS TRIP/FRAME					4x10+1C10

TOTAL CONNECTED LOAD 18 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			3	15	18
DEM. FACTOR			0.4	1	
DEMAND kVA			1.5	15	16.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/B-B2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B177.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
PANTRY B168-SOCKET	4	2			1 20 / 2 30	15.5			6	
PANTRY B168-COOKER-type2	6		14		3 20 / 4		15.5		6	AHU-B6 B169
PANTRY B168-HOOD	2.5			2.5	5 15 / 6			15.5	6	
PANTRY B168-FRIDGE-type2	2.5	4			7 15 / 8 30	15.5			6	
PANTRY B161-SOCKET	4		2		9 20 / 10		15.5		6	AHU-B7 B459
PANTRY B161-COOKER-type2	6			14	11 20 / 12			15.5	6	
PANTRY B161-HOOD	2.5	2.5			13 15 / 14 30	11.5			6	
PANTRY B161-FRIDGE-type2	2.5		4		15 15 / 16		11.5		6	AHU-B9 B172
PANTRY B185-SOCKET	4			2	17 20 / 18			11.5	6	
PANTRY B185-COOKER-type2	6	14			19 20 / 20 30	–				
PANTRY B185-HOOD	2.5		2.5		21 15 / 22		–			SPARE
PANTRY B185-FRIDGE-type2	2.5			4	23 15 / 24			–		
SPARE	–	–			25 20 / 26 15	2.5			2.5	FCU-B17 B155
SPARE	–		–		27 20 / 28 30		–			SPARE
SPARE	–			–	29 20 / 30			–		SPARE
SPARE		–			31 20 / 32	–				SPARE
SPARE			–		33 20 / 34 15		–			SPARE
SPARE				–	35 20 / 36 15			–		SPARE
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		22.5	22.5	22.5		45	42.5	42.5		F6/6-6
TOTAL AMPS (CONNECTED)		67.5	65	65	80/100 AMPS TRIP/FRAME					31/2x25+1C16

TOTAL CONNECTED LOAD 44 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			1.5	42.5	44
DEM. FACTOR			0.4	0.8	
DEMAND kVA			1	34	35

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-B1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B007.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B005,B001,B124	2.5	2			1 15 / 2 20	3			4	SOCKETS B007
LIGHTING B008-B009	2.5		5		3 15 / 4 20		–		–	SPARE
LIGHTING B134	2.5			1	5 15 / 6 20			–	–	SPARE
LIGHTING B132b,B133	2.5	1			7 15 / 8 20	–			4	ELECTRIC DOOR
SPARE	–		–		9 15 / 10 20		–		4	
SPARE	–			–	11 15 / 12			–	4	
SPARE	–	–			13 15 / 14 20	–			4	ELECTRIC DOOR
SPARE	–		–		15 15 / 16		–		4	
SPARE	–			–	17 15 / 18			–	4	
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		3	5	1		–	–	3		F6/7-13
TOTAL AMPS (CONNECTED)		3	5	4	40/100 AMPS TRIP/FRAME					4x10+1C10

TOTAL CONNECTED LOAD 3.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	2.5		1		3.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2		0.5		2.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-B2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B177
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B115,116	2.5	1			1 15 / 2 20	3			4	SOCKET B155
LIGHTING B160a+b,164a+b,167a+b	2.5		2.5		3 15 / 4 20		–		–	SPARE
LIGHTING B154	2.5			4	5 15 / 6 20			–	–	SPARE
LIGHTING ST11	2.5	5.5			7 15 / 8 20	–			–	SPARE
SPARE	–		–		9 15 / 10 20		–		–	SPARE
SPARE	–			–	11 15 / 12 20			–	–	SPARE
SPARE	–	–			13 15 / 14 20	–			–	SPARE
LIGHTING B179a+b,184a+b,B177	2.5		2		15 15 / 16 20		–		–	SPARE
SPARE	–			–	17 15 / 18 20			–	–	SPARE
SPARE	–	–			19 15 / 20	–			–	SPACE
SPARE	–		–		21 20 / 22		–		–	SPACE
ENCL "H" Rm B172	2.5			2	23 15 / 24			–	–	SPACE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		6.5	5	4		3	–	–		F6/7-14
TOTAL AMPS (CONNECTED)		9.5	–	–	40/100 AMPS TRIP/FRAME					4x10+1C10

TOTAL CONNECTED LOAD 9 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3.5		5.5		9
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3		2.5		5.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/CH-B1
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B158
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SOCKET B157	4	8			1 20 / 2	8			4	SOCKET B157
SOCKET B157	4		8		3 20 / 4		8		4	SOCKET B157
SOCKET B157	4			8	5 20 / 6			8	4	SOCKET B157
SOCKET B157	4	8			7 20 / 8	–			–	SPARE
SPARE	–		–		9 20 / 10		–		–	SPACE
SPARE	–			–	11 20 / 12			–	–	SPACE
SPARE	–	–			13 20 / 14	–			–	SPACE
SPARE	–		–		15 20 / 16		–		–	SPACE
SPARE	–			–	17 20 / 18			–	–	SPACE
SPARE	–	–			19 20 / 20	–			–	SPACE
SPARE	–		–		21 20 / 22		–		–	SPACE
SPARE	–			–	23 20 / 24			–	–	SPACE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		16	8	8		8	8	8		F6/7-15
TOTAL AMPS (CONNECTED)		24	16	16	60/100 AMPS TRIP/FRAME					4x16+1C16

TOTAL CONNECTED LOAD 5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			12.5		12.5
DEM. FACTOR			0.4		
DEMAND kVA			5		5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/CH-B2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE B), Rm B169.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SPARE	–	–			1 20 / 2 20	–			–	SPARE
SPARE	–		–		3 20 / 4 20		–		–	SPARE
SPARE	–			–	5 20 / 6 20			–	–	SPARE
SPARE	–	–			7 20 / 8 20	–			–	SPARE
SPARE	–		–		9 20 / 10 20		–		–	SPARE
SPARE	–			–	11 20 / 12 20			–	–	SPARE
SPARE	–	–			13 20 / 14 20	–			–	SPARE
SPARE	–		–		15 20 / 16 20		–		–	SPARE
SPARE	–			–	17 20 / 18 20			–	–	SPARE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		11	8	8		8	8	8		F6/7-16
TOTAL AMPS (CONNECTED)		19	16	16	60/100 AMPS TRIP/FRAME					4x16+1C16

TOTAL CONNECTED LOAD 11.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	–		11.5		11.5
DEM. FACTOR	–		0.4		
DEMAND kVA	–		5		5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-B1
PANEL TYPE MCCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B140.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B139,B140	2.5	3			1 15 / 2 20	5.5			4	SOCKETS B139,B140,B136a,SHAFT
LIGHTING B137,B138	2.5		4.5		3 15 / 4 20		5.5		4	SOCKETS B137,B138
LIGHTING B135,B136	2.5			3.5	5 15 / 6 20			4	4	SOCKETS B135,B136
LIGHTING B144,B145	2.5	3.5			7 15 / 8 20	5			4	SOCKETS B144
LIGHTING B141,B142,B143	2.5		2		9 15 / 10 20		4		4	SOCKETS B145
SPARE	–			–	11 15 / 12 20			4	4	SOCKETS B145
SPARE	–	–			13 15 / 14 20	–			–	SPARE
SPARE	–		–		15 15 / 16 20		–		–	SPARE
SPARE	–			–	17 15 / 18 20			5	4	SOCKETS B141,B142,B142a,B143
SPARE	–	–			19 15 / 20	–			–	SPACE
SPARE	–		–		21 15 / 22		–		–	SPACE
SPARE	–			–	23 15 / 24			–	–	SPACE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		6.5	6.5	3.5		10.5	9.5	13		F6/3-1
TOTAL AMPS (CONNECTED)		10.5	9.5	13	60/100 AMPS TRIP/FRAME					31/2x25+1C16
		17	16	16.5						

TOTAL CONNECTED LOAD 11.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4		7.5		11.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3.5		3		6.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-B2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B148.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SPARE	–	–			1 15 / 2 20	4			4	SOCKETS B145b,B153
LIGHTING B149,B150,B152,SHAFT	2.5		3.5		3 15 / 4 20		3		4	SOCKETS B149,B150,SHAFT
LIGHTING B151b+B151	2.5			4	5 15 / 6 20			4	4	SOCKETS B147,B148
LIGHTING B153	2.5	7.5			7 15 / 8 20	5			4	SOCKETS B151, B151b
LIGHTING B151a	2.5		4		9 15 / 10 20		5		4	SOCKETS B151a
LIGHTING B146,B147	2.5			3	11 15 / 12 20			–	–	SPARE
SPARE	–	–			13 15 / 14 20	–			–	SPACE
SPARE	–		–		15 15 / 16		–		–	SPACE
SPARE	–			–	17 15 / 18			–	–	SPACE
SPARE	–	–			19 15 / 20	–			–	SPACE
SPARE	–		–		21 15 / 22		–		–	SPACE
SPARE	–			–	23 15 / 24			–	–	SPACE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		7.5	3.5	7		9	8	4		F6/3-2
TOTAL AMPS (CONNECTED)		9	8	4	40/100 AMPS TRIP/FRAME					4x10+1C10
		16.5	11.5	11						

TOTAL CONNECTED LOAD 6 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3.5		2.5		6
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3		1		4

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/C-B1
PANEL TYPE MCCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B140.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	2.5	3.5			1 15 / 2 30	14			6	
142 -AHU-B8	2.5		3.5		3 / 4		14		6	SOCKETS B138
	2.5			3.5	5 / 6			14	6	
SPARE	–	–			7 30 / 8	14			6	
SPARE	–		–		9 30 / 10		14		6	SOCKETS B135
SPARE	–			–	11 30 / 12			14	6	
SPARE	–	–			13 30 / 14	14			6	SOCKETS B138
SPARE	–		–		15 30 / 16		14		6	SOCKETS B135
SPARE	–			–	17 20 / 30 18			14	6	SOCKETS B144
SPARE	–	–			19 20 / 30 20	14			6	SOCKETS B144
SPARE	–		–		21 20 / 30 22		14		6	SOCKETS B144
SPARE	–			–	23 20 / 30 24			–	–	SPARE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					
SUBTOTALS (AMPS)		3.5	3.5	3.5		56	56	42		F6/6-1
TOTAL AMPS (CONNECTED)		56	56	42	40/100 AMPS TRIP/FRAME					4x10+1C10
		59.5	59.5	45.5						

TOTAL CONNECTED LOAD 36.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			34	2.5	36.5
DEM. FACTOR			0.4	1	
DEMAND kVA			14	2.5	16.5

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

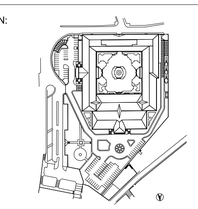
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-3

SHEET NO. L1202-CD-E-045-A1

Revision NO. 00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/C-B2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B148.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	4	8.5			20	15	3.5			2.5	147) FCU – B14
152) AHU – B10	4		8.5								SPARE
	4			8.5							SPARE
SPARE					15	15					SPARE
SPACE											SPACE
SPACE											SPACE
SUBTOTALS (AMPS)		8.5	8.5	8.5			3.5	–	–		
		3.5	–	–							
TOTAL AMPS (CONNECTED)		12	8.5	8.5							

40/100 AMPS TRIP/FRAME — F6/6–3 — 4x10+1C10

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				6.5	6.5
DEM. FACTOR				1	
DEMAND kVA				6.5	6.5

TOTAL CONNECTED LOAD 6.5 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-B1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B140.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SPARE					15	15	2			2.5	EMCC/B–B1
LIGHTING B138 – B139	2.5		3		15	15		3		2.5	EMCC/B–B2
LIGHTING B136 – B142a – B141	2.5			2.5	15	15			2	2.5	ENCL–O + FM200
LIGHTING ST7	2.5	5			15						SPACE
SPARE					15						SPACE
LIGHTING B140 – B144				2.5	15						SPACE
SUBTOTALS (AMPS)		5	3	5			2	3	2		
		2	3	2							
TOTAL AMPS (CONNECTED)		7	6	7							

40/100 AMPS TRIP/FRAME — F6/7–11 — 4x10+1C10

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3				3
DEM. FACTOR	0.8				
DEMAND kVA	2.5				2.5

TOTAL CONNECTED LOAD 3 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-B2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION BASEMENT (ZONE C), Rm B148.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING B146–B151	2.5	1.5			15	20	1			4	SOCKET OUTLET B147.
LIGHTING ST–9	2.5		5		15	20		3		4	B151b
ENCL–J B145b	2.5			2	15	20			3	4	B150–B151a–B153
ENCL–FM200 B147	2.5	4			15	20	3			4	B151a
SPARE	–		–		15			–		–	SPACE
SPARE	–			–	15				–	–	SPACE
SUBTOTALS (AMPS)		1.5	5	–			4	3	3		
		4	3	3							
TOTAL AMPS (CONNECTED)		5.5	8	3							

40/100 AMPS TRIP/FRAME — F6/7–12 — 4x10+1C10

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	1.5		1		2.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	1.5		0.5		2

TOTAL CONNECTED LOAD 2.5 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A–GF1
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0031.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0034	4	7.5			15	20	5.5			4	SOCKET OUTLET 0034
LIGHTING 0035	4		7.5		15	20		6.5		4	SOCKET OUTLET 0035
LIGHTING 0038	2.5			3.5	15	20			5	4	SOCKET OUTLET 0038
LIGHTING 0038a–0038b	2.5	4.5			15	20	5.5			4	SOCKET OUTLET 0038a–0038b
LIGHTING 0040–0041	2.5		3		15	20		4		4	SOCKET OUTLET 0040–0041
LIGHTING 0031–0033–0032	2.5			5	15	20			6.5	4	SOCKET OUTLET 0031–0037 0037a–0033–0042
LIGHTING 0042	2.5	8			15	20	14			6	PANTRY 0041/Cooker–type2
LIGHTING 0036–0037–0037a	2.5		3.5		15	15		2.5		2.5	Hood
LIGHTING 0033 Wall Bracket	2.5			7	15	15			4	2.5	Fridge–type2
SPARE		–			15	20	3			4	PANTRY 032/Socket
SPARE			–		15	15		4.5		4	Cooker–type1
SPARE				–	15	15			2.5	2.5	Hood
SPARE		–			15	15	3.5			2.5	Fridge–type1
SPARE			–		15	20		13.5		6	MicroWaves
SPARE				–	15	15			7	2.5	SOCKET OUTLET 0034–0035 CONTROLABLE 0038
SPACE						15	2			2.5	0040 /FCU – G1
SPACE											SPACE
SPACE											SPACE
SUBTOTALS (AMPS)		20	14	15.5			33.5	31	25		
		33.5	31	25							
TOTAL AMPS (CONNECTED)		53.5	45	40.5							

80/100 AMPS TRIP/FRAME — F5/2–4 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	11		9	11	31
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	9		4	11	24

TOTAL CONNECTED LOAD 31 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A–GF2
PANEL TYPE MCCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0012.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0010	2.5	7			15	20	8			4	SOCKET OUTLET 0010
SPARE					15	15		5.5		2.5	CONTROLLABLE SOCKETS OUTLET 0010
LIGHTING 0006	2.5			8	15	20			9	4	SOCKET OUTLET 006
LIGHTING 0002–0003–0004	2.5	3.5			15	20	4			4	SOCKET OUTLET 002
SPARE					15	20				4	SOCKET Rm 0012
SPARE					15	20					SPARE
SPARE					15	30	15.5			16	–
LIGHTING 0005–0008–0023a	2.5		6.5		15	30		15.5		16	AHU – G2
MEZZANINE	2.5			1	15	30			15.5	16	–
SPARE	2.5				15	30	15.5			16	
LIGHTING 0005 Wall Brocket	2.5		7		15	30		15.5		16	AHU – G3
SPARE					15	30			15.5	16	
SPARE					15	20					SPARE
SPARE					15	20					SPARE
SPARE					15	20					SPARE
SPACE					15	20					SPARE
SPACE					15	20					SPACE
SPACE					15	20					SPACE
SUBTOTALS (AMPS)		10.5	13.5	9			43	36.5	40		
		43	36.5	40							
TOTAL AMPS (CONNECTED)		53.5	49.5	49							

80/100 AMPS TRIP/FRAME — F5/1–8 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	7.5		6	21	34.5
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	6		2.5	21	29.5

TOTAL CONNECTED LOAD 34.5 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/ML–GF1
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0028.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0027 CH5	2.5	6.5			15	20	6.5			4	SOCKET OUTLET 0027
LIGHTING 0027 CH5	2.5		6.5		15	20		7.5		4	SOCKET OUTLET 0027
LIGHTING 0027 CH4	2.5			6	15	20			5.5	4	SOCKET OUTLET 0027
LIGHTING 0027 CH5	2.5	6.5			15	20	5.5			4	SOCKET OUTLET 0027
LIGHTING 0027 CH5	2.5		6.5		15	20		5		4	SOCKET OUTLET 0029–ST2–0028 0030
LIGHTING 0027 CH4	2.5			6	15	20					SPARE
LIGHTING 0027 CH5	2.5	6.5			15	20					SPARE
LIGHTING 0027 CH5	2.5		6.5		15	20					SPARE
LIGHTING 0027 CH4	2.5			6	15	20					SPARE
LIGHTING 0027 CH4	2.5	6			15	20					SPARE
LIGHTING 0027 CH4	2.5		6		15	20					SPARE
LIGHTING 0027 CH4	2.5			6	15	15					SPARE
LIGHTING 0027 CH4	2.5	6			15						SPACE
LIGHTING 0027 CH4	2.5		6		15						SPACE
EO	2.5			5.5	15				5.5	2.5	EO
SPARE					15						SPACE
SPARE					15						SPACE
LIGHTING 0030 Mezzanine	2.5			3.5	15						SPACE
SUBTOTALS (AMPS)		31.5	35.5	33			12	12.5	11		
		12	12.5	11							
TOTAL AMPS (CONNECTED)		43.5	44	44							

80/100 AMPS TRIP/FRAME — F5/2–5 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	22.5		7		29.5
DEM. FACTOR	1		0.4		
DEMAND kVA	22.5		3		25.5

TOTAL CONNECTED LOAD 29.5 kVA

3P, 80A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/ML–GF2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0028.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0027 CH4	2.5	6			15	15	6			2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5		6		15	15		6		2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5			6	15	15			6	2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5	6			15	15	6			2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5		6		15	15		6		2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5			6	15	15			6	2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5	6			15	15	6			2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5		6		15	15		6		2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5			6	15	15			6	2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5	6			15	15	6			2.5	LIGHTING 0027 CH4
LIGHTING 0027 CH4	2.5		6		15	15		6		2.5	LIGHTING 0027 CH4
EO	2.5			5.5	15	15					SPARE
SPARE					15	15					SPARE
SPARE					15	15					SPARE
SPARE					15	15					SPACE
SPARE					15	15					SPACE
SPARE					15	15					SPACE
SUBTOTALS (AMPS)		24	24	23.5			24	24	18		
		24	24	18							
TOTAL AMPS (CONNECTED)		48	48	41.5							

80/100 AMPS TRIP/FRAME — F5/2–6 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	30.5				30.5
DEM. FACTOR	1				
DEMAND kVA	30.5				30.5

TOTAL CONNECTED LOAD 30.5 kVA

3P, 80A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/BH–GF1
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A),Rm 0020.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0019 CH5	2.5	6.5			15	20	6.5			4	SOCKET OUTLET 0019
LIGHTING 0019 CH5	2.5		6.5		15	20		7.5		4	SOCKET OUTLET 0019
LIGHTING 0019 CH5	2.5			6	15	20			5.5	4	SOCKET OUTLET 0019
LIGHTING 0019 CH5	2.5	6.5			15	20	5.5			4	SOCKET OUTLET 0019
LIGHTING 0019 CH5	2.5		6.5		15	20		3		4	SOCKET OUTLET 0020–ST3
LIGHTING 0019 CH4	2.5			6	15	20			2	4	SOCKET OUTLET 0021
LIGHTING 0019 CH5	2.5	6.5			15	20					SPARE
LIGHTING 0019 CH5	2.5		6.5		15	20					SPARE
LIGHTING 0019 CH4	2.5			6	15	20					SPARE
LIGHTING 0019 CH4	2.5	6			15	20					SPARE
LIGHTING 0019 CH4	2.5		6		15	20					SPARE
LIGHTING 0019 CH4	2.5			6	15	20					SPARE
LIGHTING 0019 CH4	2.5	6			15	20					SPACE
LIGHTING 0019 CH4	2.5		6		15	20					SPACE
EO	2.5			5.5	15	15			5.5	2.5	EO
SPARE					15	15					SPACE
SPARE					15	15					SPACE
LIGHTING Pantry 0022	2.5			7	15	15					SPACE
SUBTOTALS (AMPS)		31.5	31.5	36.5			12	10.5	13		
		12	10.5	13							
TOTAL AMPS (CONNECTED)		43.5	42	49.5							

80/100 AMPS TRIP/FRAME — F5/1–6 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	23.5		7		30.5
DEM. FACTOR	1		0.4		
DEMAND kVA	23.5		3		26.5

TOTAL CONNECTED LOAD 30.5 kVA

3P, 80A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/BH–GF2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0020
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0019 CH4	2.5	6			15	15	6			2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5		6		15	15		6		2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5			6	15	15			6	2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5	6			15	15	6			2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5		6		15	15		6		2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5			6	15	15			6	2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5	6			15	15	6			2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5		6		15	15		6		2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5			6	15	15			6	2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5	6			15	15	6			2.5	LIGHTING 0019 CH4
LIGHTING 0019 CH4	2.5		6		15	15		6		2.5	LIGHTING 0019 CH4
EO	2.5			5.5	15	15					SPARE
SPARE					15	15					SPARE
SPARE					15	15					SPACE
SPARE					15	15					SPACE
SPARE					15	15					SPACE
SPACE					15	15					SPACE
SPACE					15	15					SPACE
SUBTOTALS (AMPS)		24	24	23.5			24	24	18		
		24	24	18							
TOTAL AMPS (CONNECTED)		48	48	41.5							

80/100 AMPS TRIP/FRAME — F5/1–7 — 31/2x25+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	30.5				30.5
DEM. FACTOR	1				
DEMAND kVA	30.5				30.5

TOTAL CONNECTED LOAD 30.5 kVA

3P, 80A CONTACTOR

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
Email: infoAR_DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

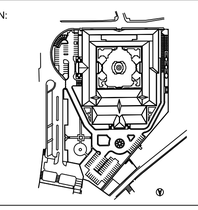
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-4

SHEET NO. L1202-CD-E-046-A1

Revision NO. 00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-H
PANEL TYPE MCCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0012
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0001	2.5	7			15/1, 20/2	7			4	SOCKET 0001
LIGHTING 0001	2.5		7		15/3, 20/4		7		4	SOCKET 0001
LIGHTING 0001	2.5			7	15/5, 20/6			8	4	SOCKET 0017
LIGHTING 0001	2.5	7			15/7, 15/8	3			2.5	FCU – G3
LIGHTING 0001	2.5		7		15/9, 20/10		6		4	SOCKET OUTLET 0011,0012,0013 0005,0016
LIGHTING 0001	2.5			7	15/11, 20/12					SPARE
LIGHTING 0001	2.5	7			15/13, 20/14					SPARE
LIGHTING 0001	2.5		7		15/15, 20/16					SPARE
LIGHTING 0001	2.5			7	15/17, 15/18			6	2.5	LIGHTING 0017
LIGHTING 0001	2.5	5			15/19, 15/20	6			2.5	LIGHTING 0015,0016
LIGHTING 0017 CH5	2.5		6.5		15/21, 15/22		4		2.5	LIGHTING 0013,0014
LIGHTING 0017 CH4	2.5			6	15/23, 15/24			3	2.5	LIGHTING 0011
LIGHTING 0017 CH4	2.5	6			15/25, 15/26					SPARE
LIGHTING 0017 CH5	2.5		5		15/27, 15/28					SPARE
LIGHTING 0017 CH4	2.5			6	15/29, 15/30					SPARE
LIGHTING 0017 CH4	2.5	6			15/31, 15/32					SPACE
CH5 0017	2.5		6.5		15/33, 15/34					SPACE
ENTRANCE	2.5			6.5	15/35, 15/36					SPACE
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		38	39	39.5		16	17	17		
TOTAL AMPS (CONNECTED)		16	17	17	3P 80/100 AMPS TRIP/FRAME					F5/1–9 31/2x25+1C16
		54	56	56.5						

TOTAL CONNECTED LOAD 37.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	30	1	6.5		37.5
DEM. FACTOR	0.8	1	0.4		
DEMAND kVA	24	1	3		28

3P, 80A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/ML-GF
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL — LOCATION GROUD FLOOR (ZONE A), Rm 0028.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
Ice Cuber Rm 0030	6	10			20/1, 20/2	11			6	DISHWASHER Rm 0030
R.I.R Rm 0030	4		2.5		15/3, 20/4		11		6	
Table top REF. Rm 0030	4			2	15/5, 20/6			11	6	
Bottle Cooler Rm 0030	4	1.5			20/7, 20/8	6			4	SOCKET Rm 0030
Mobile Heated Cabinet Rm 0030	4		7		15/9, 20/10				–	SPARE
Mobile Heated Cabinet Rm 0030	4			7	15/11, 20/12				–	SPARE
R.I.R Rm 0030	4	2.5			15/13, 20/14				–	SPARE
WASTE DISPOSER Rm 0030	4		7.5		15/15, 20/16				–	SPARE
SPARE	–				15/17, 20/18				–	SPARE
SPARE	–				15/19, 20/20				–	SPARE
SPARE	–				15/21, 20/22				–	SPARE
SPACE	–				23, 24				–	SPACE
SPACE	–				25, 26				–	SPACE
SPACE	–				27, 28				–	SPACE
SPACE	–				29, 30				–	SPACE
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		14	17	9		17	11	11		
TOTAL AMPS (CONNECTED)		17	11	11	3P 63/100 AMPS TRIP/FRAME					F5/5–4 4x16+1C16
		31	28	20						

TOTAL CONNECTED LOAD 17.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			1.5	16	17.5
DEM. FACTOR			0.4	1	
DEMAND kVA			1	16	17

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/BH-GF
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0020
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
Heated Cabinet Rm 0022, 0022a	2.5	7			15/1, 60/2	37			16	BROILER Rm 0022
Bain Marie Rm 0022,0022a	2.5		7		15/3, 60/4		37		16	
Heated Cabinet Rm 0022,0022a	4			10	20/5, 60/6			37	16	
Heated Cabinet Rm 0022,0022a	4	10			20/7, 20/8	4.5			2.5	WASTE DISPOSER RM 0022a
Bottle CoolerRm 0022,0022a	4		2.5		20/9, 15/10		–			SPARE
R.I. R.E.F Rm 0022,0022a	4			4	15/11, 15/12			–		SPARE
Ice Cube Rm 0022,0022a	4	10			20/13, 20/14	6			4	SOCKET Rm 0022,0022a
Hood Rm 0022,0022a	2.5		5		15/15, 20/16		9		4	SOCKET Rm 0022,0022a
SPARE	–				15/17, 20/18				–	SPARE
SPARE	–				19, 20				–	SPARE
SPARE	–				21, 22				–	SPARE
SPACE					23, 24					SPACE
SPACE					25, 26					SPACE
SPACE					27, 28					SPACE
SPACE					29, 30					SPACE
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		27	14.5	14		47.5	46	37		
TOTAL AMPS (CONNECTED)		47.5	46	37	3P 80/100 AMPS TRIP/FRAME					F5/4–6 31/2x25+1C16
		74.5	60.5	51						

TOTAL CONNECTED LOAD 41.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			3.5	38	41.5
DEM. FACTOR			0.4	0.8	
DEMAND kVA			1.5	30.5	32

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-GF2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0012.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
SOCKET 003	4	6			20/1, 20/2	–				SPARE
Cooker Type2 003	6		14		20/3, 20/4		–			SPARE
FRIDGE 003	2.5			2.5	15/5, 20/6			–		SPARE
HOOD 003	2.5	4			15/7, 15/8	1			2.5	FCU-G2 002
SOCKET 023a	4		6		20/9, 20/10	–				SPARE
Cooker Type1 023a	4			4.5	20/11, 20/12		–			SPARE
Hood 023a	2.5	4			15/13, 30/14	–				SPARE
Fridge Type1 023a	4	3.5			20/15, 15/16		–			SPARE
MicroWave 023a	6		14		20/17, 15/18			–		SPARE
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		14	23.5	21		1	–	–		
TOTAL AMPS (CONNECTED)		1	–	–	3P 40/100 AMPS TRIP/FRAME					F5/4–7 4x10+1C10
		15	23.5	21						

TOTAL CONNECTED LOAD 13.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA			3	10.5	13.5
DEM. FACTOR			0.4	1	
DEMAND kVA			1.5	10.5	12

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-GF1
PANEL TYPE MCCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0031
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0034-0035-0039a	2.5	6			15/1, 20/2	5			4	SOCKET 0035
LIGHTING 0038-0040-0041a	2.5		4		15/3, 15/4		5		4	SOCKET 0038a-0038b
LIGHTING 0031-0033-0036-0037	2.5			6	15/5, 20/6			5	4	SOCKET 0038-0040
LIGHTING 0042	2.5	6			15/7, 20/8					SPARE
SPARE					15/9, 15/10		2		2.5	EMCC / A-GF1
SPARE					20/11, 20/12					SPARE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		12	4	6		5	5	5		
TOTAL AMPS (CONNECTED)		5	5	5	3P 40/100 AMPS TRIP/FRAME					F6/7–22 4x10+1C10
		17	9	11						

TOTAL CONNECTED LOAD 8.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5		3.5		8.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	4		1.5		5.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-GF2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0012
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0006-0010-009-009a 007-007a	2.5	5.5			15/1, 15/2	3			2.5	CONTROLLABLE SOCKETS 0006
LIGHTING 0005-0008-0002 0003a	2.5		5.5		15/3, 20/4		5		4	SOCKET 006-002
LIGHTING 0013-0014-0012	2.5			3	15/5, 20/6				–	SPARE
LIGHTING 0015-0016	2.5	4.5			15/7, 20/8				–	SPARE
LIGHTING 0017	4		5.5		15/9, 20/10		2		2.5	ENCL. E Rm 0012
LIGHTING 0001	2.5			5.5	15/11, 15/12					SPACE
LIGHTING 0001	2.5	5.5			15/13, 15/14					SPACE
SPARE	–				15/15, 15/16					SPACE
LIGHTING 0018-0024-0025-0026	4			9.5	15/17, 15/18					SPACE
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		15.5	11	18		3	7	–		
TOTAL AMPS (CONNECTED)		3	5	–	3P 40/100 AMPS TRIP/FRAME					F5/7–36 4x10+1C10
		18.5	16	18						

TOTAL CONNECTED LOAD 12 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	10		2		12
DEM. FACTOR	0.8		0.4		
DEMAND kVA	8		1		9

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/ML-GF
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0028
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0027	2.5	5.5			15/1, 20/2					SPARE
LIGHTING 0027	2.5		5.5		15/3, 20/4					SPARE
LIGHTING 0027	2.5			5.5	15/5, 20/6					SPARE
LIGHTING 0028-0029	2.5	1			15/7, 15/8					SPACE
SPARE					15/9, 15/10					SPACE
SPARE					15/11, 15/12					SPACE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		6.5	5.5	5.5		–	–	–		
TOTAL AMPS (CONNECTED)		–	–	–	3P 40/100 AMPS TRIP/FRAME					F6/7–23 4x10+1C10
		6.5	5.5	5.5						

TOTAL CONNECTED LOAD 4 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4				4
DEM. FACTOR	1				
DEMAND kVA	4				4

3P, 40A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/BH-GF
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE A), Rm 0020
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0019	2.5	5			15/1, 20/2					SPARE
LIGHTING 0019	2.5		5		15/3, 20/4					SPARE
LIGHTING 0019	2.5			5	15/5, 20/6					SPARE
LIGHTING 0020-0021-0023	2.5	2.5			15/7, 15/8					SPACE
SPARE					15/9, 15/10					SPACE
SPARE					15/11, 15/12					SPACE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		7.5	5	5		–	–	–		
TOTAL AMPS (CONNECTED)		7.5	5	5	3P 40/100 AMPS TRIP/FRAME					F5/7–35 4x10+1C10

TOTAL CONNECTED LOAD 4 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4				4
DEM. FACTOR	1				
DEMAND kVA	4				4

3P, 40A CONTACTOR

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-GF1
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B), RM 0055
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0048	2.5	7			15/1, 20/2	4			4	SOCKETS 0048
LIGHTING 0048	2.5		7		15/3, 20/4		3		4	SOCKETS 0048,ST4
LIGHTING 0048	2.5			7	15/5, 20/6			9	4	CONTROLLABLE SOCKETS 0048
LIGHTING 0043	2.5	9			15/7, 20/8	8			4	SOCKETS 0043,0054,0055,ST5
LIGHTING 0043	2.5		9		15/9, 20/10		10		4	SOCKETS 0043,0044,0045,0046,0047 0051,0057
LIGHTING 0043	2.5			9	15/11, 20/12			4	4	SOCKETS 0057
LIGHTING 0043	2.5	9			15/13, 20/14	4.5			4	CONTROLLABLE SOCKETS 0057
LIGHTING 0048	2.5		4.5		15/15, 20/16					SPARE
LIGHTING 0043	2.5			7.5	15/17, 20/18					SPARE
LIGHTING 0051,0052,0053,0054	2.5	3.5			15/19, 20/20					SPARE
LIGHTING 0043	2.5		7		15/21, 15/22					SPARE
LIGHTING 0044,0045,0045a,0046 0046a,0047	2.5			7.5	15/23, 15/24					SPARE
LIGHTING 0048	2.5	4.5			15/25, 15/26					SPACE
LIGHTING 0049,0050	2.5		3.5		15/27, 15/28					SPACE
LIGHTING ST4	2.5			4.5	15/29, 15/30					SPACE
LIGHTING balcony	2.5	2.5			15/31, 15/32					SPACE
LIGHTING ST5	2.5		4.5		15/33, 15/34					SPACE
SPARE					15/35, 15/36					SPACE
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		35.5	35.5	35.5		16.5	13	13		
TOTAL AMPS (CONNECTED)		16.5	13	13	3P 80/100 AMPS TRIP/FRAME					F6/1–7 31/2x25+1C16
		52	48.5	48.5						

TOTAL CONNECTED LOAD 33 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	23.5		9.5		33
DEM. FACTOR	0.8		0.4		
DEMAND kVA	19		4		23

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

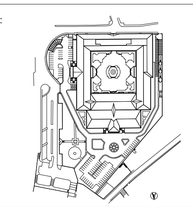
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-5

SHEET NO.
L1202-CD-E-047-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-GF2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B), RM 0150
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0160,0161,0162,0163	2.5	5			1 1P	20 2	6			4	SOCKETS 0161,0162,0163
LIGHTING 0149,0153,0156	2.5		4.5		3 1P	20 4		6		4	SOCKETS 0153,0155,0156
LIGHTING 0154,0157,0158	2.5			7.5	5 1P	20 6			6	4	SOCKETS 0146a,0157,0158
LIGHTING 0146,0146a	2.5	7.5			7 1P	20 8	6			4	SOCKETS 0146,0152,0154
LIGHTING 0134,0134a,0135	2.5		7		9 1P	20 10		7		4	SOCKETS 0142,0143,0144,ST11
LIGHTING 0142,0143,0144,0145 0147,0148,0151	2.5			5.5	11 1P	20 12			6	4	SOCKETS 0133,0134,0134a
LIGHTING 0140	2.5	9			13 1P	20 14	4			4	SOCKETS 0147,0148,0150,0151
LIGHTING 0140,0141	2.5		9		15 1P	20 16		3		4	SOCKETS 0138
LIGHTING ST10	2.5			4.5	17 1P	20 18			5	4	SOCKETS 0139,0140,0141
LIGHTING balcony	2.5	1.5			19 1P	20 20	6			4	SOCKETS 0135
SPARE					21 1P	20 22					SPARE
LIGHTING 0133,0137,0138,0139	2.5			6.5	23 1P	20 24					SPARE
SPARE					25 1P	26					SPACE
SPACE					27 1P	28					SPACE
SPACE					29	30					SPACE
SPACE					31	32					SPACE
SPACE					33	34					SPACE
SPACE					35	36					SPACE
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		23	20.5	24			22	16	17		
TOTAL AMPS (CONNECTED)		22	16	17							
		45	36.5	41							

F6/2-8
80/100 AMPS TRIP/FRAME
31/2x25+1C16

TOTAL CONNECTED LOAD 27.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	15		12.5		27.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	12		5		17

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/PR-GF
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B),Rm.0055
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0056	2.5	7			1 1P	20 2	4			4	SOCKETS Rm 0059
LIGHTING Rm0057	2.5			4.5	3 1P	20 4		4		4	SOCKETS Rm 0059
LIGHTING Rm0058	2.5			9	5 1P	20 6			4	4	SOCKETS Rm 0059
LIGHTING Rm0056	2.5	4.5			7 1P	20 8	3			4	SOCKETS Rm 0059
LIGHTING Rm0058	2.5			6.5	9 1P	20 10			3	4	SOCKETS Rm 0059
LIGHTING Rm0059	2.5			9	11 1P	20 12			3	4	SOCKETS Rm 0058
LIGHTING Rm0056	2.5	4.5			13 1P	20 14	4			4	SOCKETS Rm 0058
LIGHTING Rm0059	2.5			6.5	15 1P	20 16			5	4	SOCKETS Rm 0056
SPARE					17 1P	20 18			5	4	SOCKETS Rm 0058
SPARE					19 1P	20 20					SPARE
SPARE					21 1P	20 22					SPARE
SPARE					23 1P	20 24					SPARE
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		16	17.5	18			11	12	12		
TOTAL AMPS (CONNECTED)		11	12	12							
		27	29.5	30							

F6/1-5
60/100 AMPS TRIP/FRAME
4x16+1C16

TOTAL CONNECTED LOAD 19.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	11.5		8		19.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	9.5		3.5		13

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/B-GF1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER TYPE 2 (Rm 0052)	6	14			1 2P	30 2	–				SPARE
FRIDGE TYPE 2 (Rm 0052)	2.5		4		3 1P	16 4		2		2.5	FCU-G12 (Rm 0052)
HOOD (Rm 0052)	2.5			2.5	5 1P	16 6			2	2.5	FCU-G11 (Rm 0054)
SPARE					7 1P	20 8					SPARE
SPARE					9 1P	20 10					SPARE
SPARE					11 1P	20 12					SPARE
SPARE					13 1P	20 14					SPACE
SPARE					15 1P	20 16					SPACE
SPARE					17 1P	20 18					SPACE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		14	4	2.5			–	2	2		
TOTAL AMPS (CONNECTED)		–	2	2							
		14	6	4.5							

F6/4-2
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 5.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				5.5	5.5
DEM. FACTOR				1	
DEMAND kVA				5.5	5.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/B-GF2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GR. FL. (ZONE B) Rm. 0150
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER TYPE 2 (Rm 0148)	6	14			1 2P	30 2	2.5			2.5	HOOD (Rm 0148)
COOKER TYPE 2 (Rm 0144)	6		14		3 2P	16 4		2.5		2.5	HOOD (Rm 0144)
COOKER TYPE 2 (Rm 0134a)	6			14	5 2P	16 6			2.5	2.5	HOOD (Rm 0134a)
FRIDGE TYPE 2 (Rm 0148)	2.5	4			7 1P	16 8	2.5			2.5	HOOD (Rm 0138)
FRIDGE TYPE 2 (Rm 0144)	2.5		4		9 1P	16 10		2.5		2.5	FCU-G4(Rm 0144)
FRIDGE TYPE 1 (Rm 0134a)	4			3.5	11 1P	16 12			–		SPARE
FRIDGE TYPE 1 (Rm 0138)	4	3.5			13 1P	20 14	–				SPARE
COOKER TYPE 1 (Rm 0138)	6		4.5		15 1P	16 16		–			SPACE
ICE MAKER (Rm 0138)	4			3.5	17 1P	16 18		–			SPACE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		21.5	22.5	21			5	5	2.5		
TOTAL AMPS (CONNECTED)		5	5	2.5							
		26.5	27.5	23.5							

F6/5-3
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 17 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				17	17
DEM. FACTOR				1	
DEMAND kVA				17	17

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-GF1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B), RM 0055
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING ST4	2.5	5.5			1 1P	20 2	5			4	SOCKETS 0051,0054
LIGHTING ST5	2.5		5.5		3 1P	20 4					SPARE
LIGHTING 0048	2.5			7.5	5 1P	20 6					SPARE
LIGHTING 0043,0055,0058,ST5	2.5	1			7 1P	8					SPACE
SPARE					9 1P	10					SPACE
SPARE					11 1P	12					SPACE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		6.5	5.5	7.5			5	0	0		
TOTAL AMPS (CONNECTED)		5	0	0							
		11.5	5.5	7.5							

F5/7-15
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 6 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4.5		1.5		6
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3.5		1		4.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-GF2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B), RM 0150
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING 0145,0146,0149,0150,0159	2.5	3.5			1 1P	20 2	7.5			4	SOCKETS 0161,0163
LIGHTING ST10	2.5		4		3 1P	20 4		7.5		4	SOCKETS 0153,0156
LIGHTING 0141	2.5			2.5	5 1P	20 6			10	4	SOCKETS 0154,0157,0158
LIGHTING 0133,0135	2.5	4.5			7 1P	20 8	5			4	SOCKETS 0142,0152
SPARE					9 1P	20 10		2		2.5	MCC /B-GF1
SPARE					11 1P	20 12					SPARE
SPACE					13	14					SPACE
SPACE					15	16					SPACE
SPACE					17	18					SPACE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		8	4	2.5			12.5	9.5	10		
TOTAL AMPS (CONNECTED)		12.5	9.5	10							
		20.5	13.5	12.5							

F5/7-27
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 10.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3.5		7		10.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3		3		6

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/PR-GF
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B),Rm0055
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0057	2.5	2			1 1P	20 2	10			4	SOCKETS Rm 0059
LIGHTING Rm0058	2.5		7.5		3 1P	20 4		10		4	SOCKETS Rm 0059
LIGHTING Rm0059	2.5			7.5	5 1P	20 6			10	4	SOCKETS Rm 0059
LIGHTING Rm0056	2.5	2			7 1P	20 8	7.5			4	SOCKETS Rm 0059
SPARE					9 1P	20 10			7.5	4	SOCKETS Rm 0059
LIGHTING Rm0059					11 1P	20 12			7.5	4	SOCKETS Rm 0058
SPARE					13 1P	20 14	5			4	SOCKETS Rm 0058
LIGHTING Rm0058					15 1P	20 16					SPARE
SPARE					17 1P	20 18					SPARE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		4	7.5	7.5			22.5	17.5	17.5		
TOTAL AMPS (CONNECTED)		22.5	17.5	17.5							
		26.5	25	25							

F5/7-14
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 17.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4.5		13		17.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3.5		5.5		9

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/P-GF
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE B), Rm 0055
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	6	2.5			1 1P	16 2	1			6	
LIGHTING S4 (8pcs)	6		2.5		3 1P	4		1		6	LIGHTING S4 (4pcs)
	6			2	5 1P	6			2	6	
LIGHTING P4 (4pcs)	6	6			7 1P	16 8	–				SPARE
LIGHTING P4 (4pcs)	6		6		9 1P	16 10		3		6	LIGHTING P8 (4pcs)
					11 1P	16 12					SPARE
SPARE					13 1P	14					SPACE
					15 1P	16					SPACE
SPACE					17	18					SPACE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					
SUBTOTALS (AMPS)		8.5	8.5	2			1	4	2		
TOTAL AMPS (CONNECTED)		1	4	2							
		9.5	12.5	4							

F6/1-6
40/100 AMPS TRIP/FRAME
4x10+1C10

TOTAL CONNECTED LOAD 6 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	6				6
DEM. FACTOR	1				
DEMAND kVA	6				6

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-GF1
PANEL TYPE MCCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C), Rm 0076
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING,Rm0095,0096. 0097,0097a	2.5	4.5			1 1P	20 2	6			4	SOCKETS Rm 0102 Elect.shaft
LIGHTING,Rm0090,0091. 0092,0093	2.5		5.5		3 1P	20 4		9		4	SOCKETS Rm 0077,0078 0079,0080,0081
LIGHTING Rm0082,0083 0084,0085,0086	2.5			6.5	5 1P	20 6			8	4	SOCKETS Rm 0082,0084 0085,0086
LIGHTING,Rm0075,0077,0078, 0079,0080,0081,0088.	2.5	7.5			7 1P	20 8	7			4	SOCKETS Rm 0059a,0065 0074,0087
LIGHTING,Rm0074.	2.5		7.5		9 1P	20 10		7		4	SOCKETS Rm 0095,0096 0097,0097a
LIGHTING Rm0087,0102.	2.5			7	11 1P	20 12			10	4	SOCKETS Rm 0090,0091 0092,0093
LIGHTING Rm0059a,0065.	2.5	8			13 1P	20 14	4			4	SOCKETS Rm 0088,0089 ST7
LIGHTING Rm0067,0070 0068,0069	2.5		6		15 1P	20 16		6		4	SOCKETS Rm 0067,0068 0069
LIGHTING Rm0066,0071 0072	2.5			5.5	17 1P	20 18			6	4	SOCKETS Rm 0070,0071 0072
LIGHTING Rm0060,0061,0062. 0063,0064.	2.5	4.5			19 1P	20 20	6			4	SOCKETS Rm 0063,0066
SPARE					21 1P	20 22		7		4	SOCKETS Rm 0060,0061 0062,0075
SPARE					23 1P	20 24					SPARE
SPARE					25 1P	20 26					SPARE
SPACE					27	28					SPARE
SPACE					29	30					SPACE
SPACE					31	32					SPACE
SPACE					33	34					SPACE
SPACE					35	36					SPACE
SPACE					37	38					SPACE
SPACE					39	40					SPACE
SPACE					41	42					SPACE
SUBTOTALS (AMPS)		24.5	19	19			23	29	24		
TOTAL AMPS (CONNECTED)		23	29	24							
		47.5	48	43							

F6/1-1
100/100 AMPS TRIP/FRAME
31/2x35+1C16

TOTAL CONNECTED LOAD 31 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	14		17		31
DEM. FACTOR	0.8		0.4		
DEMAND kVA	11.5		7		18.5

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

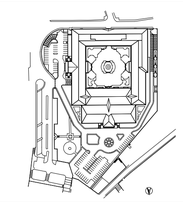
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-6

SHEET NO.
L1202-CD-E-048-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-GF2
PANEL TYPE MCCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm 0120
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0128	2.5	7			15 1	20 2	7			4	SOCKETS Rm0128,0114.
LIGHTING Rm0128	2.5		9		15 3	20 4		9		4	SOCKETS Rm0111,0117,0122 0123,0125.
LIGHTING Rm0114	2.5			9	15 5	20 6			10	4	SOCKETS Rm0124.
LIGHTING Rm0107,0115,0116 0121,0118,0119,0126,0127	2.5	7.5			15 7	20 8	10			4	SOCKETS Rm0108,0109,0110 0112,0113.
LIGHTING Rm0122,0123 0124,0125.	2.5		6		15 9	20 10		6		4	SOCKETS Rm0099,0100,0100a.
LIGHTING Rm0110,0111 0117.	2.5			7	15 11	20 12			8	4	SOCKETS Rm0116,0118,0119 0120,0121,0126,0127.
LIGHTING Rm0099,0100,0108 0109,0100a,0101,0112,0113	2.5	7.5			15 13	20 14	8			4	SOCKETS Rm0115.
LIGHTING Rm0104,0105	2.5		7.5		15 15	20 16		10		4	SOCKETS Rm0103,0104,0105 0106,0107,5T8.
LIGHTING Rm0103,0106 +Mech.Shaft.	2.5			4.5	15 17	20 18			7	4	SOCKETS Rm0111,0117,0122 0123,0125.
LIGHTING Rm0094a	2.5	4.5			15 19	20 20	–				SPARE
LIGHTING Rm0094	2.5		4		15 21	20 22		–			SPARE
LIGHTING Rm0094a	2.5			9	15 23	20 24			–		SPARE
SPARE		–			15 25	26					SPACE
SPARE			–		15 27	28					SPACE
SPARE				–	15 29	30					SPACE
SPACE					31	32					SPACE
SPACE					33	34					SPACE
SPACE					35	36					SPACE
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 26.5 26.5 29.5 — 25 25 25
TOTAL AMPS (CONNECTED) 25 25 25 — 51.5 51.5 54.5
80/100 AMPS TRIP/FRAME — F6/2-3 — 31/2x25+1C16

TOTAL CONNECTED LOAD 35 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	16.5		18.5		35
DEM. FACTOR	0.8		0.4		
DEMAND kVA	13.5		7.5		21

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/RH-GF
PANEL TYPE MCCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C), Rm 0120
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0129	2.5	5			15 1	20 2	6			4	SOCKETS Rm0129,0131,0132.
LIGHTING Rm0129	2.5		5		15 3	20 4		4		4	SOCKETS Rm0129.
LIGHTING Rm0129	2.5			5	15 5	20 6			4	4	SOCKETS Rm0129.
LIGHTING Rm0129	2.5	5			15 7	20 8	–				SPARE
LIGHTING Rm0129	2.5		5		15 9	20 10		–			SPARE
LIGHTING Rm0129	2.5			5	15 11	20 12			–		SPARE
LIGHTING Rm0129	2.5	5			15 13	20 14	–				SPARE
LIGHTING Rm0129	2.5		5		15 15	20 16		–			SPARE
LIGHTING Rm0129	2.5			5	15 17	20 18			–		SPARE
LIGHTING Rm0129	2.5	5			15 19	20 20					SPACE
LIGHTING Rm0131,0132	2.5		3		15 21	20 22					SPACE
SPACE				–	15 23	24					SPACE
SPACE			–		15 25	26					SPACE
SPACE					27	28					SPACE
SPACE					29	30					SPACE
SPACE					31	32					SPACE
SPACE					33	34					SPACE
SPACE					35	36					SPACE
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 20 18 15 — 6 4 4
TOTAL AMPS (CONNECTED) 6 4 4 — 26 22 19
80/100 AMPS TRIP/FRAME — F6/2-4 — 31/2x25+1C16

TOTAL CONNECTED LOAD 15.5 kVA

3P, 80A CONTACTOR

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	12		3.5		15.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	10		1.5		11.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/C-GF1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm.0076
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER Type2 Rm0097a.	6	14			20 1	15 2	2.5			2.5	HOOD Rm0075.
HOOD Rm0097a.	2.5		2.5		15 3	20 4		14		6	COOKER Type2 Rm0075.
FRIDGE Type2 Rm0097a.	2.5			4	15 5	15 6			4	2.5	FRIDGE Type2 Rm0075.
FCU-G7 Rm0095.	2.5	2			15 7	20 8	–				SPARE
FCU-G9 Rm0102.	2.5		2		15 9	15 10		–			SPARE
FCU-G10 Rm0089.	2.5			1	15 11	15 12			–		SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 16 4.5 5 — 2.5 14 4
TOTAL AMPS (CONNECTED) 2.5 14 4 — 18.5 18.5 9
40/100 AMPS TRIP/FRAME — F6/4-1 — 4x10+1C10

TOTAL CONNECTED LOAD 10.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				10.5	10.5
DEM. FACTOR				0.8	
DEMAND kVA				8.5	8.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/C-GF2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm 0120
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER Type2 Rm0119	6	14			20 1	15 2	2.5			2.5	HOOD Rm0100a.
HOOD Rm0119	2.5		2.5		15 3	20 4		14		6	COOKER Type2 Rm0100a.
FRIDGE Type2 Rm0119	2.5			4	15 5	15 6			4	2.5	FRIDGE Type2 Rm0100a
FCU-G5 Rm0107	2.5	1			15 7	30 8	–				HANDICAP LIFT
FCU-G6 Rm0099	2.5		2		15 9	15 10		–			SPARE
FCU-G8 Rm0103	2.5			2	15 11	15 12			–		SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 15 4.5 6 — 2.5 14 4
TOTAL AMPS (CONNECTED) 2.5 14 4 — 17.5 18.5 10
40/100 AMPS TRIP/FRAME — F6/5-2 — 4x10+1C10

TOTAL CONNECTED LOAD 10.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				10.5	10.5
DEM. FACTOR				8.5	
DEMAND kVA				8.5	8.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-GF2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm 0120
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0128	2.5	4			15 1	20 2	10			4	SOCKETS Rm0124
LIGHTING Rm0094a	2.5		6		15 3	20 4		7.5		4	SOCKETS Rm0124
LIGHTING Rm0105,0106,0114 0120,0126,0127,5T8	2.5			6.5	15 5	20 6			10	4	SOCKETS Rm0099,0110 0113.
ENCL. M Rm 0120	2.5	2			15 7	20 8	10			4	SOCKETS Rm0110,0111 0117.
MCC / C-GF2 Rm 0121	2.5		2		15 9	20 10		7.5		4	SOCKETS Rm0115.
SPARE					20 11	20 12			10	4	SOCKETS Rm0115.
SPACE					13	20 14					SPARE
SPACE					15	20 16		10		4	SOCKETS Rm 0103,0109,0117.
SPACE					17	20 18					SPARE
					19	20 20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 6 8 6.5 — 20 25 20
TOTAL AMPS (CONNECTED) 20 25 20 — 26 33 26.5
40/100 AMPS TRIP/FRAME — F5/7-23 — 4x10+1C10

TOTAL CONNECTED LOAD 18.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4		14.5		18.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3.5		6		9.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-GF1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm0076
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0088	2.5	2.5			15 1	20 2	7			4	SOCKETS Rm0102
LIGHTING Rm0059a,0064 0073,0076	2.5		4.5		15 3	20 4		9		4	SOCKETS Rm0095
LIGHTING Rm0074,0087 Elect.Shaft	2.5			3.5	15 5	20 6			10	4	SOCKETS Rm0079,0080
SPARE					15 7	20 8	10			4	SOCKETS Rm0068,0084 0088.
SPARE					15 9	20 10		6		4	SOCKETS Rm0068,0070 0071.
SPACE					11	20 12			8	4	SOCKETS Rm0063
SPACE					13	15 14	2			2.5	ENCL -L Rm 0076
SPACE					15	15 16		2		2.5	EMCC/C -GF1 Rm 0060
SPACE					17	20 18					SPARE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 2.5 4.5 3.5 — 19 17 18
TOTAL AMPS (CONNECTED) 17 17 12.5 — 19.5 21.5 16
40/100 AMPS TRIP/FRAME — F5/7-11 — 4x10+1C10

TOTAL CONNECTED LOAD 11 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	2.5		8.5		11
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2		3.5		5.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/RH-GF
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION GROUND FLOOR (ZONE C),Rm0120
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm0129	2.5	5			15 1	20 2	–				SPARE
LIGHTING Rm0129	2.5		5.5		15 3	20 4		5		4	SOCKETS Rm0129
LIGHTING Rm0129	2.5			5	15 5	20 6			–		SPARE
LIGHTING Rm0130,0131,0132	2.5	4.5			15 7	8					SPACE
SPARE					15 9	10					SPACE
SPARE					15 11	12					SPACE
SPACE					13	14					SPACE
SPACE					15	16					SPACE
SPACE					17	18					SPACE
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 9.5 5.5 5 — – 5 –
TOTAL AMPS (CONNECTED) – 5 – — 9.5 10.5 5
40/100 AMPS TRIP/FRAME — F5/7-24 — 4x10+1C10

TOTAL CONNECTED LOAD 6 kVA

3P, 40A CONTACTOR

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4.5		1.5		6
DEM. FACTOR	0.8		0.4		
DEMAND kVA	4		1		5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-1F1
PANEL TYPE MCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1024
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1002	2.5	6			15 1	20 2	7			4	SOCKETS, Rm 1001,1002
LIGHTING , Rm 1002	2.5		9		15 3	20 4		8		4	SOCKETS, Rm 1003+balcony
LIGHTING , Rm 1002	2.5			9	15 5	20 6			8	4	SOCKETS, Rm1028
LIGHTING , Rm 1002	2.5	6			15 7	20 8	8			4	SOCKETS, Rm 1029
LIGHTING , Rm 1001,1002	2.5		3.5		15 9	20 10		4		4	SOCKETS, Rm 1021,1023
LIGHTING , Rm 1001	2.5			7	15 11	20 12			8	4	SOCKETS, Rm 1026,1026a
LIGHTING , Rm 1003	2.5	7			15 13	20 14	6			4	SOCKETS, Rm 1030
LIGHTING , Rm 1003	2.5		5.5		15 15	20 16		7		4	SOCKETS, Rm 1024, 1025 ST2,M0128
LIGHTING , Rm 1030	2.5			4.5	15 17	20 18			5	4	SOCKETS, Rm 1027
LIGHTING , Rm 1030	2.5	7			15 19	20 20	–				SPARE
LIGHTING , Rm 1029	2.5		7		15 21	20 22					SPARE
LIGHTING , Rm 1021	2.5			7	15 23	20 24					SPARE
LIGHTING , Rm 1027,1028	2.5	5			15 25	20 26					SPARE
LIGHTING , Rm 1026	2.5		7		15 27	20 28					SPARE
LIGHTING , Rm 1026a,1029	2.5			8.5	15 29	20 30					SPARE
LIGHTING , Rm 1022,1022a 1023,1024,M1028	2.5	7			15 31	32					SPACE
CONTROLLABLE SOCKETS Rm 1029	2.5		2.5		15 33	34					SPACE
SPARE				–	15 35	36					SPACE
SPARE					15 37	38					SPACE
SPARE					15 39	40					SPACE
SPACE					41	42					SPACE

SUBTOTALS (AMPS) 38 34.5 36 — 21 19 21
TOTAL AMPS (CONNECTED) 21 19 21 — 59 53.5 57
100/100 AMPS TRIP/FRAME — F5/2-7 — 31/2x35+1C16

TOTAL CONNECTED LOAD 37.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	24		13.5		37.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	19.5		5.5		25

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-1F2
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1018
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B		PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1009	2.5	5			15 1	20 2	6			4	SOCKETS, Rm 1009,1010,1011
LIGHTING, Rm 1010,1010a	2.5		4.5		15 3	20 4		6		4	SOCKETS, Rm 1005
LIGHTING, Rm 1007,1007a	2.5			4.5	15 5	20 6			7	4	SOCKETS, Rm 1006,1007,1008
LIGHTING, Rm 1006	2.5	5.5			15 7	20 8	6			4	SOCKETS, Rm 1004,1017
LIGHTING, Rm 1005	2.5		2		15 9	20 10		10		4	SOCKETS, Rm 1013,1014,M1015
LIGHTING, Rm 1004	2.5			10	15 11	20 12			7	4	SOCKETS, Rm 1016,1018,1018a
LIGHTING, Rm 1005	2.5	7			15 13	20 14	6			4	SOCKETS, Rm 1019,1019a,1020
LIGHTING, Rm 1004a	2.5		5		15 15	15 16		2.5		2.5	CONTROLLABLE SOCKETS Rm 1005
LIGHTING, Rm 1012,1013	2.5			5	15 17	20 18					SPARE
LIGHTING, Rm 1014	2.5	7.5			15 19	20 20					SPARE
LIGHTING, Rm 1013	2.5		7		15 21	15 22					SPARE
LIGHTING, Rm 1018	2.5			4	15 23	15 24					SPARE
SPARE	2.5	–			15 25	26					SPACE
LIGHTING, Rm 1017,1019,1019a	2.5		7		15 27	28					SPACE
LIGHTING, Rm 1016,M1015	2.5			2	15 29	30					SPACE
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

SUBTOTALS (AMPS) 25 25.5 25.5 — 18 18.5 14
TOTAL AMPS (CONNECTED) 18 18.5 14 — 43 44 39.5
63/100 AMPS TRIP/FRAME — F5/1-5 — 4x16+1C16

TOTAL CONNECTED LOAD 28.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	17.5		11		28.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	14		4.5		18.5

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

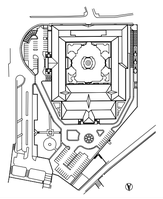
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-7

SHEET NO.
L1202-CD-E-049-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-1F2
PANEL TYPE MCB (30-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1018
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER Type1, Rm1016	4	4.5			1 15 / 2	15 / 4			2.5	FCU-F1, Rm 1008
FRIDGE TYPE1, Rm1016	4		3.5		3 15 / 4	20 / 6		7	4	FCU-F2, Rm 1008
MICROWAVE, Rm1016	6			13.5	5 20 / 6	20 / 8		7	4	FCU-F3, Rm 1011
HOOD, Rm1016	2.5	2.5			7 15 / 8	15 / 10	–			SPARE
FCU-F4, Rm 1018a	2.5		3.5		9 15 / 10	15 / 12		–		SPARE
FCU-F5, Rm 1020	2.5			4.5	11 15 / 12	15 / 14		–		SPARE
SPARE					13 15 / 14	15 / 16	–			SPARE
SPARE					15 20 / 16	20 / 18		–		SPARE
SPARE					17 30 / 18	20 / 20		–		SPARE
	6	8.5			19 30 / 20	30 / 22	8.5		6	
AHU-F3, Rm 1016	6		8.5		21	22		8.5	6	AHU-F4
	6			8.5	23	24		8.5	6	
SPACE					25	15 / 26				
SPACE					27	28				SPARE
SPACE					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		15.5	15.5	26.5			13	15.5	15.5	F5/4-5
TOTAL AMPS (CONNECTED)		13	15.5	15.5						4x16+1C16
		28.5	31	42	63/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 22.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				22.5	22.5
DEM. FACTOR				0.9	
DEMAND kVA				20	20

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-1F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1024
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
COOKER Type1, Rm 1027	4	4.5			1 15 / 2	15 / 4	7		4	HEATED CABINET, Rm 1028
MICROWAVE, Rm1027	6		13.5		3 15 / 4	15 / 6		1.5	4	TABLE TOP REFRIGERATOR Rm 1028
FREEZER, Rm 1027	6			1	5 15 / 6	15 / 8				SPARE
HOOD, Rm 1027	2.5	2.5			7 15 / 8	20 / 8	5		6	
FRIDGE TYPE1, Rm 1027	4		3.5		9 20 / 10	20 / 10		5	6	COFFEE MACHINE, Rm 1028
DISHWASHER, Rm 1027	6			8.5	11 15 / 12	20 / 12			5	6	
SPARE					13 20 / 14					SPACE
SPARE					15 30 / 16					SPACE
SPARE					17 20 / 18					SPACE
					19	20				
					21	22				
					23	24				
					25	26				
					27	28				
					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		7	17	9.5			12	6.5	5	F5/5-5
TOTAL AMPS (CONNECTED)		12	6.5	5						4x10+1C10
		19	23.5	14.5	40/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 12.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				12.5	12.5
DEM. FACTOR				1	
DEMAND kVA				12.5	12.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-1F1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1024
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1026,1029,1030	2.5	5.5			1 15 / 2	20 / 2	2.5		4	SOCKETS, Rm 1030
LIGHTING, Rm 1003,1021	2.5		5.5		3 15 / 4	20 / 4	–			SPARE
LIGHTING, Rm 1001,ST1	2.5			5.5	5 15 / 6					SPACE
LIGHTING, Rm 1025, ELEC.Rm	2.5	2			7 15 / 8	20 / 6	5		6	SPACE
LIGHTING, Rm 1002	2.5		5.5		9 15 / 10	20 / 8				SPACE
SPARE					11 15 / 12	20 / 10				SPACE
					13	14				
					15	16				
					17	18				
					19	20				
					21	22				
					23	24				
					25	26				
					27	28				
					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		7.5	11	5.5			2.5	–	–	F6/7-24
TOTAL AMPS (CONNECTED)		2.5	–	–						4x10+1C10
		10	11	5.5	40/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 6 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5.5		0.5		6
DEM. FACTOR	0.8		0.4		
DEMAND kVA	4.5		0.5		5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-1F2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE A), Rm 1018
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1008,1011,1012a	2.5	5			1 15 / 2	20 / 2	2.5		4	SOCKETS, Rm 1006
LIGHTING, Rm 1004,1019,1020	2.5		5.5		3 15 / 4	20 / 4		2.5	4	SOCKETS, Rm 1017
LIGHTING, Rm 1015,1018,1018a	2.5			4	5 15 / 6	20 / 6		2.5	4	SOCKETS, Rm 1009
LIGHTING, Rm 1005	2.5	3			7 15 / 8	20 / 8	5		4	SOCKETS, Rm 1013,1014
SPARE					9 15 / 10	20 / 10		2	4	SOCKETS, Rm 1009,1017
SPACE					11	15 / 12		2	2.5	ENCL-D Rm-M1015
					13	14				
					15	16				
					17	18				
					19	20				
					21	22				
					23	24				
					25	26				
					27	28				
					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		8	5.5	4			7.5	2.5	4.5	F5/7-34
TOTAL AMPS (CONNECTED)		7.5	2.5	2.5						4x10+1C10
		15.5	8	6.5	40/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 7 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	4		3		7
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3.5		1.5		5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-1F1
PANEL TYPE MCB (48-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE B), Rm 1049
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm 1034,1035,1036	2.5	6.5			1 15 / 2	20 / 2	4		4	SOCKETS Rm 1043
LIGHTING Rm 1037	2.5		4.5		3 15 / 4	20 / 4		6	4	SOCKETS Rm 1033,1035,1044 1045
LIGHTING Rm 1041	2.5			4.5	5 15 / 6	20 / 6		5	4	SOCKETS Rm 1034,1036
LIGHTING Rm 1043,1044	2.5	6			7 15 / 8	20 / 8	6		4	SOCKETS Rm 1041
LIGHTING Rm 1032,1039,1046	2.5		7.5		9 15 / 10	20 / 10		6	4	SOCKETS Rm 1037
LIGHTING Rm 1040,1047	2.5			7	11 15 / 12	20 / 12		8	4	SOCKETS Rm 11,1040,1042,1047
LIGHTING Rm ST4	2.5	4.5			13 15 / 14	20 / 14	9		4	SOCKETS Rm 12,1032,1038 1039,1046
LIGHTING Rm 1033	2.5		4.5		15 15 / 16	20 / 16		8	4	SOCKETS Rm 12,1031,1049
LIGHTING Rm 11,1048,1055	2.5			7	17 15 / 18	20 / 18		8	4	SOCKETS Rm 11,ST5,1048,1050
LIGHTING Rm 1045	2.5	4.5			19 15 / 20	20 / 20	8		4	SOCKETS Rm 1052,1054
LIGHTING Rm 1033	2.5		4.5		21 15 / 22	20 / 22		6	4	SOCKETS Rm 1056,1058
LIGHTING Rm 1031	2.5			9	23 15 / 24	20 / 24		7	4	SOCKETS Rm 1055,1056,1057
LIGHTING RM 1031	2.5	9			25 15 / 26	20 / 26	4		4	SOCKETS Rm 1051
LIGHTING Rm 1031	2.5				27 15 / 28	20 / 28		–		SPARE
LIGHTING Rm 1058	2.5				29 15 / 30	15 / 30			– 2.5	HOOD Rm 1032
LIGHTING Rm 1054	2.5	7.5			31 15 / 32	15 / 32	5		2.5	CONTROLLABLE SOCKETS Rm 1034,1037
LIGHTING Rm 1050	2.5		9		33 15 / 34	15 / 34		9	2.5	LIGHTING Rm ST5,1050
LIGHTING Rm 1056	2.5			7.5	35 15 / 36	15 / 36			5 4	CONTROLLABLE SOCKETS Rm 1041,1043
LIGHTING Rm 1052	2.5	7.5			37 15 / 38	30 / 38	16.5		6	COOKER Type2
LIGHTING Rm 1050	2.5		7		39 15 / 40	15 / 40		4	2.5	FRIDGE Type2 Rm 1032
LIGHTING Rm 12,1051	2.5			5	41 15 / 42	15 / 42			3 2.5	FCU-F9+FCU-F10 Rm 1047,1048
SPARE					43 15 / 44	30 / 44				SPARE
SPARE					45 15 / 46	20 / 46				SPARE
SPARE					47 15 / 48	15 / 48				SPARE
SUBTOTALS (AMPS)		45.5	44	47.5			52.5	39	36	F6/1-8
TOTAL AMPS (CONNECTED)		52.5	39	36						31/2x35+1C16
		98	83	83.5	100/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 59 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	34.5		19	5.5	59
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	28		8	5.5	41.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-1F2
PANEL TYPE MCB (48-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE B), Rm 1170
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm 1177,1181,1182 1183	2.5	4.5			1 15 / 2	20 / 2	7		4	SOCKETS Rm 1177,1182,1183
LIGHTING Rm 1172,1174,1175	2.5		4		3 15 / 4	20 / 4		7	4	SOCKETS Rm 1172,1174,1175
LIGHTING Rm 1176,1178,1179	2.5			7.5	5 15 / 6	20 / 6		8	4	SOCKETS Rm 1166a,1178,1179
LIGHTING Rm 1166	2.5	7.5			7 15 / 8	20 / 8	8		4	SOCKETS Rm 1166,1173,1176
LIGHTING Rm 1159,1160	2.5		4		9 15 / 10	20 / 10		7	4	SOCKETS Rm 13,ST11,1162 1163,1164
LIGHTING Rm 1162,1163,1164 1167,1168,1171,1173	2.5			5.5	11 15 / 12	20 / 12		7	4	SOCKETS Rm 1166,1167,1168 1170,1171
LIGHTING Rm 1161	2.5	9			13 15 / 14	20 / 14	6		4	SOCKETS Rm 1159,1160
LIGHTING Rm 1161	2.5		9		15 15 / 16	20 / 16		5	4	SOCKETS Rm 13,1161
LIGHTING Rm ST10	2.5			4.5	17 15 / 18	20 / 18		8	4	SOCKETS Rm 1118,1154,1157 1158
LIGHTING Rm 13	2.5	5			19 15 / 20	20 / 20	7		4	SOCKETS Rm 1151,1155
LIGHTING Rm 1152,1153,1154 1157,1158	2.5		7		21 15 / 22	20 / 22		6	4	SOCKETS Rm 1140,1141
LIGHTING Rm 1118,1156	2.5			4	23 15 / 24	20 / 24		9	4	SOCKETS Rm 1145,1146
LIGHTING Rm 1151,1155	2.5	4.5			25 15 / 26	20 / 26	8		4	SOCKETS Rm 1147,1148
LIGHTING RM 1149,1150	2.5		4		27 15 / 28	20 / 28		8	4	SOCKETS Rm 1142,1143,1144
LIGHTING Rm 1143,1144,1145	2.5			4.5	29 15 / 30	20 / 30		6	4	SOCKETS Rm 1149,1150
LIGHTING RM 1147,1148	2.5	4.5			31 15 / 32	20 / 32	6		4	SOCKETS Rm 1152,1153
LIGHTING Rm 1146	2.5		5		33 15 / 34	20 / 34		–		SPARE
LIGHTING Rm 1140,1141,1142	2.5			4.5	35 15 / 36	15 / 36			4 2.5	FRIDGE Type2 Rm 1164
SPARE		–			37 15 / 38	15 / 38	4		2.5	FRIDGE Type2 Rm 1168
FCU-F6 Rm 1165	2.5		4		39 15 / 40	30 / 40		16.5	6	COOKER Type2 +HOOD Rm 1164
SPARE				–	41 15 / 42	30 / 42		16.5	6	COOKER Type2 +HOOD Rm 1168
SPARE		–			43 15 / 44	20 / 44	–			SPARE
SPARE			–		45 15 / 46	20 / 46		–		SPARE
SPARE				–	47 30 / 48	15 / 48				SPARE
SUBTOTALS (AMPS)		35	37	30.5			46	49.5	58.5	F6/2-7
TOTAL AMPS (CONNECTED)		46	49.5	58.5						31/2x35+1C16
		81	86.5	89	100/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 56 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	21		25	10	56
DEM. FACTOR	0.8		0.4	0.8	
DEMAND kVA	16		10	8	34

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-1F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE B), Rm 1049
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm 1033,1045	2.5	6.5			1 15 / 2	20 / 2	7.5		4	SOCKETS Rm 1040,1041
LIGHTING Rm 1040,1041,1042 1042	2.5		6.5		3 15 / 4	20 / 4		7.5	4	SOCKETS Rm 1037,1039
LIGHTING Rm 1034,1037,1038 1039,1046	2.5			6.5	5 15 / 6	20 / 6			5 4	SOCKETS Rm 1047,1048
LIGHTING Rm 1031	2.5	5.5			7 15 / 8	20 / 8	5		4	SOCKETS Rm 1055,1056
LIGHTING RM 1050,1051,1053	2.5		6.5		9 15 / 10	20 / 10		–		SPARE
LIGHTING Rm 1050	2.5			9	11 15 / 12	20 / 12			7.5 4	SOCKETS Rm 1051,1052
CONTROLLABLE SOCKETS Rm 1056,1058	2.5	7.5			13 15 / 14	20 / 14				SPARE
CONTROLLABLE SOCKETS Rm 1052,1054	2.5		5		15 15 / 16	15 / 16				SPARE
SPARE					17 15 / 18	15 / 18				SPARE
					19	20				
					21	22				
					23	24				
					25	26				
					27	28				
					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		19.5	18	15.5			12.5	7.5	12.5	F5/7-16
TOTAL AMPS (CONNECTED)		12.5	7.5	12.5						4x10+1C10
		32	25.5	28	40/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 20 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	12.5		7.5		20
DEM. FACTOR	0.8		0.4		
DEMAND kVA	10		3		13

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-1F2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE B), Rm1170
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm 1165,1166,1169 1170,1180	2.5	3.5			1 15 / 2	20 / 2	7.5		4	SOCKETS Rm 1177,1183
LIGHTING Rm ST10	2.5		4.5		3 15 / 4	20 / 4		7.5	4	SOCKETS Rm 1172,1175
LIGHTING Rm 1161	2.5			5.5	5 15 / 6	20 / 6			10 4	SOCKETS Rm 1176,1178,1179
LIGHTING Rm 1118,1156	2.5	1.5			7 15 / 8	20 / 8	5		4	SOCKETS Rm 1162,1173
SPARE					9 15 / 10	20 / 10		7.5	4	SOCKETS Rm 1155,1159,1160
SOCKETS	4			5	11 20 / 12	20 / 12			7.5 4	SOCKETS Rm 1146
SOCKETS Rm 1141,1143,1145	4	7.5			13 20 / 14	20 / 14	7.5		4	SOCKETS Rm 1150,1153
SOCKETS Rm 1146	4		7.5		15 20 / 16	20 / 16		7.5	4	SOCKETS Rm 1147,1148,1151
SPARE					17 20 / 18	20 / 18			7.5 4	SOCKETS Rm 1149,1152
SPARE					19 15 / 20					SPACE
SPARE					21 15 / 22					SPACE
SPARE					23 15 / 24					SPACE
					25	26				
					27	28				
					29	30				
					31	32				
					33	34				
					35	36				
					37	38				
					39	40				
					41	42				
SUBTOTALS (AMPS)		12.5	12	10.5			20	22.5	25	F5/7-26
TOTAL AMPS (CONNECTED)		20	22.5	25						4x10+1C10
		32.5	34.5	35.5	40/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 22.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3		19.5		22.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2.5		8		10.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-1F1
PANEL TYPE MCCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE C), Rm 1078
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 25 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING Rm 1093,1094,1098	2.5	7			1 15 / 2	20 / 2	8		4	SOCKETS Rm 1097,1098
LIGHTING Rm 1090,1091,1097	2.5		5		3 15 / 4	20 / 4		7	4	SOCKETS Rm 1092,1093,1094 1096
LIGHTING Rm 1083,1084,1085, 1086,1088	2.5			6.5	5 15 / 6	20 / 6		9	4	SOCKETS Rm 1084,1095
LIGHTING Rm 1092,1095,1096	2.5	4			7 15 / 8	20 / 8	8		4	SOCKETS Rm 1083,1085,1086 1088
LIGHTING Rm 1089	2.5		7		9 15 / 10	20 / 10		8	4	SOCKETS Rm 1069,1070,1071
LIGHTING Rm 1074,1075,1076	2.5			4	11 15 / 12	20 / 12		9	4	SOCKETS Rm 1068,1074,1075 1076
LIGHTING Rm 1079,1080,1081, 1082,1087	2.5	5			13 15 / 14	20 / 14	8		4	SOCKETS Rm 1059,1060,1061 1062,1063,1065,1077
LIGHTING Rm 1066,1068	2.5		6		15 15 / 16	20 / 16		6	4	SOCKETS Rm 1064,1072
LIGHTING Rm 1072	2.5			7	17 15 / 18	20 / 18		9	4	SOCKETS Rm 1079,1080,1081 1082,1087
LIGHTING Rm 1073	2.5	4			19 15 / 20	20 / 20	4		4	SOCKETS Rm 1090,1091,ST6 ST7
LIGHTING Rm 1069	2.5		7.5		21 15 / 22	20 / 22		7	4	SOCKETS Rm 1066,1073,1078 1089
LIGHTING Rm 1064	2.5			6	23 15 / 24	20 / 24		–		SPARE
LIGHTING Rm 1059,1060,1061, 1062,1063,1065,1077	2.5	3.5			25 15 / 26	20 / 26	–			SPARE
LIGHTING Rm 1066	2.5		4.5		27 15 / 28	20 / 28	–			SPARE
SPARE				–	29 15 / 30	20 / 30		14	6	COOKER Type2, Rm 1065
SPARE		–			31 15 / 32	30 / 32	14		6	COOKER Type2, Rm 1088
SPARE			–		33 15 / 34	15 / 34	4		2.5	FRIDGE Type2, Rm 1065
FCU-F8, Rm 1091	2.5			1	35 15 / 36	15 / 36		2.5	2.5	HOOD, Rm 1065
SPARE					37 30 / 38	15 / 38	2.5		2.5	HOOD, Rm 1088
SPARE					39 15 / 40	15 / 40	4		2.5	FRIDGE Type2, Rm 1088
SPARE					41 15 / 42	30 / 42		–		SPARE
SUBTOTALS (AMPS)		23.5	30	24.5			44.5	36	43.5	F6/1-2
TOTAL AMPS (CONNECTED)		44.5	36	43.5						31/2x35+1C16
		68	66	68	100/100 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD 45 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	17		18.5	9.5	45
DEM. FACTOR	0.8		0.4	0.9	
DEMAND kVA	14		7.5	8.5	30

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

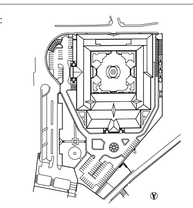
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-8

SHEET NO. L1202-CD-E-050-A1

Revision NO. 00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-1F2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE C), Rm 1126a
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1137,1138,1139	2.5	5.5			1 15 / 2 20	8			4	SOCKETS, Rm 1135,1137,1138
LIGHTING, Rm 1127,1128,1129 1130	2.5		5		3 15 / 4 20		7		4	SOCKETS, Rm 1133,1134,1136
LIGHTING, Rm 1112,1113,1114,1115 1116,1117	2.5			7	5 15 / 6 20			10	4	SOCKETS, Rm 1127,1128,1129 1130
LIGHTING, Rm 1133,1134,1135 1136	2.5	5			7 15 / 8 20	9			4	SOCKETS, Rm 1122,1123,1130a
LIGHTING, Rm 1122,1123,1130a	2.5		6		9 15 / 10 20		9		4	SOCKETS, Rm 1108,1115,1116
LIGHTING, Rm 1104,1140a,1107 1108	2.5			6	11 15 / 12 20			5	4	SOCKETS, Rm 1112,1113,1114
LIGHTING, Rm 1100,1101,1102,1103 1106,1110 + mech. shaft	2.5	7.5			13 15 / 14 20	9			4	SOCKETS, Rm 1104,1104a,1107
LIGHTING, Rm 1109,1118,1118a	2.5		7.5		15 15 / 16 20		9		4	SOCKETS, Rm 1100,1101,1102 1105,1106
LIGHTING, Rm 1099	2.5			5	17 15 / 18 20			8	4	SOCKETS, Rm 1124,1125,1126, 1126a,1131,1132
LIGHTING, Rm 1111,1119,1120,1121	2.5	5			19 15 / 20 20	7			4	SOCKETS, Rm 1099,1109,1118
SPARE			–		21 15 / 22 20		7		4	SOCKETS, Rm 1119,1120
LIGHTING, Rm 1124,1125,1126,1131 1132	2.5			2.5	23 15 / 24 20			6	4	SOCKETS, Rm 1139
SPARE					25 15 / 26 20	4			4	SOCKETS, Rm 1110, 1111
SPARE					27 15 / 28 20		–			SPARE
FCU-F7 Rm 1111	2.5			1	29 15 / 30 20			14	6	Cooker Type2, Rm 1125
SPARE					31 15 / 32 15	2.5			2.5	Hood, Rm 1125
SPARE					33 15 / 34 15		4		2.5	Fridge Type2, Rm 1125
SPARE					35 20 / 36 30			6		SPARE
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 23 18.5 21.5 / 39.5 36 49 — 39.5 36 49
TOTAL AMPS (CONNECTED) 62.5 54.5 70.5

80/100 AMPS TRIP/FRAME — F6/2-2 — 31/2x25+16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	14		20	5	39
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	11.5		8	5	24.5

TOTAL CONNECTED LOAD 39 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-1F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE C), Rm 1078
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1089,1090,ST6	2.5	3.5			1 15 / 2 20	7.5			4	SOCKETS, Rm 1093,1095,1098
LIGHTING, Rm 1062,1063,1073 1077,1078,1087a	2.5		4		3 15 / 4 20		7.5		4	SOCKETS, Rm 1076,1084,1086
LIGHTING, Rm 1066,1070	2.5			5	5 15 / 6 20			7.5	4	SOCKETS, Rm 1064,1068,1069
SPARE					7 15 / 8 20	5			4	SOCKETS, Rm 1081,1082
SPARE					9 15 / 10 20		7.5		4	SOCKETS, Rm 1097
SPARE					11 20 / 12 15			7.5	2.5	SOCKETS, Rm 1064,1069,1072 CONTROLLABLE
SPACE					13 20 / 14 20					SPARE
SPACE					15 20 / 16 20					SPARE
SPACE					17 20 / 18 20					SPACE
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 3.5 4 5 / 12.5 15 15 — 12.5 15 15
TOTAL AMPS (CONNECTED) 12.5 19 20

40/100 AMPS TRIP/FRAME — F5/7-12 — 4x10+1C10

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3		9.5		12.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2.5		4		6.5

TOTAL CONNECTED LOAD 12.5 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-1F2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 1st. FLOOR (ZONE C), Rm 1126a
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 1118,1126a,1131,1132	2.5	4			1 15 / 2 20	7.5			4	SOCKETS, Rm 1138,1139
LIGHTING, Rm 1099,1109,1110 ST8	2.5		5.5		3 15 / 4 20		7.5		4	SOCKETS, Rm 1139
SPARE				–	5 15 / 6 20			7.5	4	SOCKETS, Rm 1135,1136
SPARE		–			7 15 / 8 20	10			4	SOCKETS, Rm 1128,1129,1134
SPARE			–		9 20 / 10 20		7.5		4	SOCKETS, Rm 1130,1130a
SPARE				–	11 20 / 12 20			7.5	4	SOCKETS, Rm 1122,1123
SOCKETS, Rm 1104	4	7.5			13 20 / 14 20	7.5			4	SOCKETS, Rm 1119,1120
SOCKETS, Rm 1104,1104a	4		7.5		15 20 / 16 20		10		4	SOCKETS, Rm 1113,1114,1115
SOCKETS, Rm 1102,1106	4			5	17 20 / 18 20			7.5	4	SOCKETS, Rm 1107,1108
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 11.5 13 5 / 25 25 22.5 — 25 25 22.5
TOTAL AMPS (CONNECTED) 36.5 38 27.5

40/100 AMPS TRIP/FRAME — F5/7-22 — 4x10+1C10

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	2.5		20.5		23
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2		8.5		10.5

TOTAL CONNECTED LOAD 23 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-2F1
PANEL TYPE MCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2070
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2063	2.5	4.5			1 15 / 2 20	7			4	SOCKETS, Rm 2063
LIGHTING, Rm 2064	2.5		4.5		3 15 / 4 20		8		4	SOCKETS, Rm 2062,2068,2069 ST2,M2067
LIGHTING, Rm 2065	2.5			7	5 15 / 6 20			7	4	SOCKETS, Rm 2064
LIGHTING, Rm 2063	2.5	7			7 15 / 8 20	7			4	SOCKETS, Rm 2065
LIGHTING, Rm 2064	2.5		7		9 15 / 10 20		8		4	SOCKETS, Rm 2001,2072,2072a +Mech. shaft
LIGHTING, Rm 2065	2.5			7	11 15 / 12 20			7	4	SOCKETS, Rm 2071
LIGHTING, Rm 2062	2.5	7			13 15 / 14 20	7			4	SOCKETS, Rm 2071
LIGHTING, Rm 2066,2067,M2067	2.5		5.5		15 15 / 16 20		8		4	SOCKETS, Rm 2074,2075
LIGHTING, Rm 2071	2.5			4.5	17 15 / 18 20			7	4	SOCKETS, Rm 2073
LIGHTING, Rm 2063	2.5	7			19 15 / 20 20	8			4	SOCKETS, Rm 2073
LIGHTING, Rm 2068,2069,2070, + Mech. shaft	2.5		8		21 15 / 22 20		5		4	SOCKETS, Rm 2071a,25
LIGHTING, Rm 2071	2.5			6.5	23 15 / 24 20			4	4	SOCKETS, Rm 2067
LIGHTING, Rm 2073	2.5	7			25 15 / 26 20	—				SPARE
LIGHTING, Rm 2074	2.5		9		27 15 / 28 20	—				SPARE
LIGHTING, Rm 2071a	2.5			9	29 15 / 30 20			4	4	SOCKETS, Rm 2066
LIGHTING, Rm 2073	2.5	9			31 15 / 32 20				4	SOCKET FOR TV AMP.
LIGHTING, Rm 2075	2.5		4.5		33 15 / 34					SPACE
LIGHTING, Rm 2001	2.5			7	35 15 / 36					SPACE
SPARE					37 15 / 38					SPACE
SPARE					39 15 / 40					SPACE
SPARE					41 15 / 42					SPACE

SUBTOTALS (AMPS) 41.5 38.5 41 / 29 29 29 — 29 29 29
TOTAL AMPS (CONNECTED) 70.5 67.5 70

100/100 AMPS TRIP/FRAME — F5/2-8 — 31/2x35+16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	27		19.5		46.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	22		8		30

TOTAL CONNECTED LOAD 46.5 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-2F2
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2044
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2016	2.5	6			1 15 / 2 20	7			4	SOCKETS, Rm 2013,2014,2015, 2016
LIGHTING, Rm 2010	2.5		4.5		3 15 / 4 20		9		4	SOCKETS, Rm 2006,2010,2011, 2012
LIGHTING, Rm 2007	2.5			4.5	5 15 / 6 20			7	4	SOCKETS, Rm 2004,2004a,2004b 2004c,2005
LIGHTING, Rm 2013,2014	2.5	5.5			7 15 / 8 20	6			4	SOCKETS, Rm 2017,2018
LIGHTING, Rm 2006	2.5		5		9 15 / 10 20		7		4	SOCKETS, Rm 2002a,2042,2047 2060,2061
LIGHTING, Rm 2008,2011	2.5			8	11 15 / 12 20			8	4	SOCKETS, Rm 2042,2043,2044, 2045,2046
LIGHTING, Rm 2002a,2047	2.5	6			13 15 / 14 20	6			4	SOCKETS, Rm 2007,2008,2009
LIGHTING, Rm 2017,2018	2.5		9		15 15 / 16 20		—			SPARE
LIGHTING, Rm 2042	2.5			9	17 15 / 18 20			—		SPARE
LIGHTING, Rm 2005,2043,2045 2046,2060	2.5	6.5			19 15 / 20 20	—			4	SOCKET FOR TV AMP.
LIGHTING, Rm 2004,2004a, 2004b	2.5		7		21 15 / 22 15		—			SPARE
SPARE				–	23 15 / 24 20			—		SPARE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 24 25.5 21.5 / 19 16 15 — 19 16 15
TOTAL AMPS (CONNECTED) 43 41.5 36.5

60/100 AMPS TRIP/FRAME — F5/1-2 — 4x16+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	16		11		27
DEM. FACTOR	0.8		0.4		
DEMAND kVA	13		4.5		17.5

TOTAL CONNECTED LOAD 27 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-2F3
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2031.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2024	2.5	7			1 15 / 2 20	8			4	SOCKETS,Rm 2020,2030,2032A, ST3,ST12
LIGHTING, Rm 2032,2032A,2033	2.5		7		3 15 / 4 20		3		4	SOCKETS, Rm 2019
LIGHTING, Rm 2035,2036	2.5			7	5 15 / 6 20			8	4	SOCKETS, Rm 2023,2024
LIGHTING, Rm 2023	2.5	6.5			7 15 / 8 20	8			4	SOCKETS, Rm 2028,2029,2030
LIGHTING, Rm 2034,2040	2.5		6.5		9 15 / 10 20		8		4	SOCKETS, Rm 2021,2025,2026 2027,2031
LIGHTING, Rm 2036	2.5			4.5	11 15 / 12 20			7	4	SOCKETS, Rm 2036,2037,2038
LIGHTING, Rm 2028	2.5	6			13 15 / 14 20	–				SPARE
LIGHTING, Rm 2029,2037	2.5		9		15 15 / 16 20		8		4	SOCKETS, Rm 2033,2034,2035, 22
LIGHTING, Rm 2025,2026	2.5			9	17 15 / 18 20			7	4	SOCKETS, Rm 2039,2040,2041
LIGHTING, Rm 2027,2028	2.5	6			19 15 / 20 15	—			4	SOCKET FOR TV AMP.
LIGHTING, Rm 2019,2020,2021 2022	2.5		7.5		21 15 / 22 20		—			SPARE
LIGHTING, Rm 2039	2.5			4	23 15 / 24 15			—		SPARE
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 25.5 30 24.5 / 16 19 22 — 16 19 22
TOTAL AMPS (CONNECTED) 41.5 49 46.5

60/100 AMPS TRIP/FRAME — F5/1-3 — 4x16+1C16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	18		13		31
DEM. FACTOR	0.8		0.4		
DEMAND kVA	14.5		5.5		20

TOTAL CONNECTED LOAD 31 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-2F4
PANEL TYPE MCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2047a
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2003	2.5	7			1 15 / 2 20	7			4	SOCKETS, Rm 2003
LIGHTING, Rm 2003	2.5		7		3 15 / 4 20		8		4	SOCKETS, Rm 2056,2056A,2058 2059
LIGHTING, Rm 2003	2.5			7	5 15 / 6 20			7	4	SOCKETS, Rm 2047a,2048,2049
LIGHTING, Rm 2002	2.5	7			7 15 / 8 20	7			4	SOCKETS, Rm 2002
LIGHTING, Rm 2002	2.5		4.5		9 15 / 10 20		9		4	SOCKETS, Rm 2057,24
LIGHTING, Rm 2002	2.5			4.5	11 15 / 12 20			6	4	SOCKETS, Rm 2052,23
LIGHTING, Rm 2047a,2048	2.5	7			13 15 / 14 20	4			4	SOCKETS, Rm 2050
LIGHTING, Rm 2050	2.5		7		15 15 / 16 20					SPARE
LIGHTING, Rm 2052	2.5			4.5	17 15 / 18 20			6	4	SOCKETS, Rm 2051a,2052,2053 2054,2055
LIGHTING, Rm 2049	2.5	4.5			19 15 / 20					SPARE
LIGHTING, Rm 2050	2.5		9		21 15 / 22 20					SPARE
LIGHTING, Rm 2052	2.5			7.5	23 15 / 24 15					SPARE
LIGHTING, Rm 2054	2.5	5.5			25 15 / 26 15					SPARE
LIGHTING, Rm 2057	2.5		7.5		27 15 / 28 15					SPARE
LIGHTING, Rm 2051a,2053 2055	2.5			9	29 15 / 30					SPACE
LIGHTING, Rm 2054	2.5	7.5			31 15 / 32					SPACE
LIGHTING, Rm 2056,2056A,2059	2.5		7		33 15 / 34					SPACE
LIGHTING, Rm 2058				3.5	35 15 / 36					SPACE
SPARE					37 15 / 38					
SPARE					39 15 / 40					
SPACE					41 / 42					

SUBTOTALS (AMPS) 38.5 42 36 / 18 17 19 — 18 17 19
TOTAL AMPS (CONNECTED) 56.5 58 55

80/100 AMPS TRIP/FRAME — F5/1-4 — 31/2x25+16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	26		12		38
DEM. FACTOR	0.8		0.4		
DEMAND kVA	21		5		26

TOTAL CONNECTED LOAD 38 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-2F2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2044
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
HOOD, Rm 2046	2.5	2.5			1 15 / 2 20				4	
MICROWAVE, Rm 2046	6		13.5		3 20 / 4		9		4	AHU-S7, Roof
FRIDGE Type1, Rm 2046	4			3.5	5 15 / 6			9	4	
COOKER Type1, Rm 2046	6	4.5			7 15 / 8 20	9			4	FCU-S5, Rm 2014
SPARE					9 20 / 10 20		–			SPARE
SPARE					11 20 / 12 20			–		SPARE
	4	9			13 20 / 14 20	4.5			4	FCU-S6, Rm 2011
AHU-S6, Roof	4		9		15 20 / 16 15		4.5		4	FCU-S7, Rm 2006
	4			9	17 20 / 18 15			7	4	FCU-S8, Rm 2008
	4	9			19 20 / 20 20	–				
AHU-S5, Roof	4		9		21 / 22		–			SPARE
	4			9	23 / 24			–		
SPARE					25 15 / 26 20	–				SPARE
H-19, ROOF	4		9		27 15 / 28 20		–			SPARE
H20,ROOF	4			9	29 15 / 30			–		SPACE
SPARE					31 15 / 32					SPACE
SPARE					33 15 / 34					SPACE
SPARE					35 15 / 36					SPACE
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 25 40.5 30.5 / 22.5 13.5 16 — 22.5 13.5 16
TOTAL AMPS (CONNECTED) 47.5 54 46.5

80/100 AMPS TRIP/FRAME — F5/4-2 — 31/2x25+16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA		29		4	33
DEM. FACTOR		1		0.4	
DEMAND kVA		29		4	33

TOTAL CONNECTED LOAD 33 kVA

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-2F3
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2031.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	4	6			1 20 / 2 30	9			4	
COFFEE MACHINE Rm 2019	4		6		3 / 4		9		4	AHU-S1, ROOF
	4			6	5 / 6			9	4	
Electric Heated Cabinet Rm2019	4	7			7 15 / 8 30	9			4	
TABLE TOP REFRIG. Rm 2019	6		2.5		9 15 / 10		9		4	AHU-S3, Rm 2027.
MICROWAVE, Rm 2019	6			13.5	11 20 / 12			9	4	
COOKER Type1, Rm 2019	6	4.5			13 15 / 14 15	4.5			2.5	FCU-S1, Rm 2037.
OVEN Type1, Rm 2019	6		8.5		15 15 / 16 15		4.5		2.5	FCU-S2, Rm 2035.
DISHWASHER, Rm 2019	6			20	17 30 / 18 15			4.5	2.5	FCU-S3, Rm 2040.
HOOD, Rm 2019	2.5	2.5			19 15 / 20 15	2			2.5	FCU-S4, Rm 2021.
FREEZER, Rm 2019	6		1		21 15 / 22 15		–			SPARE
FRIDGE Type1, Rm 2019	4			3.5	23 15 / 24 20			–		SPARE
	6	11.5			25 30 / 26 15	6			2.5	
AHU-S4, Roof	6		11.5		27 / 28		6		2.5	H-18, Roof
	6			11.5	29 / 30			6	2.5	
SPARE					31 15 / 32					SPACE
SPARE					33 15 / 34					SPACE
SPARE					35 15 / 36					SPACE
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS) 31.5 29.5 54.5 / 30.5 28.5 28.5 — 30.5 28.5 28.5
TOTAL AMPS (CONNECTED) 62 58 83

80/100 AMPS TRIP/FRAME — F5/4-3 — 31/2x25+16

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA		41		4	45
DEM. FACTOR		1		1	
DEMAND kVA		41		4	45

TOTAL CONNECTED LOAD 45 kVA

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

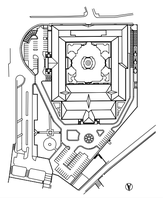
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-9

SHEET NO.
L1202-CD-E-051-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-2F1
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR, (ZONE A), Rm 2070
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	6	5			1 15 / 2 20	4.5			4	COOKER Type1, Rm 2066
COFFEE MACHINE, Rm 2067	6		5		3 15 / 4 20		3.5		4	FRIDGE Type1, Rm 2066
	6			5	5 20 / 6 20			13.5	6	MICROWAVE, RM 2066
HEATED CABINET, Rm 2067	4	7			7 20 / 8 20	2.5			2.5	HOOD, Rm 2066
TABLE TOP REFRIG. Rm 2067	4		1.5		9 15 / 10 15		8.5		6	OVEN, Rm 2066
SPARE					11 15 / 12 30			1	6	FREEZER, Rm 2066
					13 20 / 14 20					SPARE
SPARE					15 30 / 16 30					SPARE
					17 20 / 18 20					SPARE
SPACE					19					SPACE
SPACE					21					SPACE
SPACE					23					SPACE
					25					
					27					
					29					
					31					
					33					
					35					
					37					
					39					
					41					

SUBTOTALS (AMPS): 12 6.5 5 — 7 12 14.5
TOTAL AMPS (CONNECTED): 19 18.5 19.5

60/100 AMPS TRIP/FRAME — F5/5-6 4x16+1C16

TOTAL CONNECTED LOAD 12.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA				12.5	12.5
DEM. FACTOR				0.9	
DEMAND kVA				11.5	11.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-2F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2070
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2063	2.5	2.5			1 15 / 2 20	2.5			4	SOCKETS, Rm 2064
LIGHTING, Rm 2062,2069,2070	2.5		4.5		3 15 / 4 20		5		4	SOCKETS, Rm 2071
LIGHTING, Rm 2073	2.5			4.5	5 15 / 6 20			5	4	SOCKETS, Rm 2073,2075
LIGHTING, Rm 2073,2074,2075	2.5	5.5			7 15 / 8 20	—				CONT. SOCKET
LIGHTING, Rm 2071,2071a	2.5		7		9 15 / 10 20		—			SPARE
LIGHTING, Rm 2001,2072,2072a + ST1	2.5			7	11 15 / 12					SPACE
LIGHTING, Rm 2064,2065	2.5	4			13 15 / 14					SPACE
SPARE			—		15 15 / 16					SPACE
SPARE				—	17 20 / 18					SPACE
					19					
					21					
					23					
					25					
					27					
					29					
					31					
					33					
					35					
					37					
					39					
					41					

SUBTOTALS (AMPS): 12 11.5 11.5 — 2.5 5 5
TOTAL AMPS (CONNECTED): 14.5 16.5 16.5

40/100 AMPS TRIP/FRAME — F6/7-25 4x10+1C10

TOTAL CONNECTED LOAD 11 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	8		3		11
DEM. FACTOR	0.8		0.4		
DEMAND kVA	6.5		1.5		8

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-2F2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2044
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2017,2018	2.5	2.5			1 15 / 2 15	7			2.5	CONTROLLABLE SOCKETS, Rm 2007,2010,2016
LIGHTING, Rm 2004,2004b	2.5		5.5		3 15 / 4 15		2		2.5	ENCL-B ROOF
LIGHTING, Rm 2006,2009,2012 2015	2.5			4.5	5 15 / 6 15			4	2.5	EMCC/A -R1 EMCC/A -R2
LIGHTING, Rm 2042,2044,2061	2.5	3			7 15 / 8					SPACE
SPARE					9 15 / 10					SPACE
SPARE					11 20 / 12					SPACE
					13					
					15					
					17					
					19					
					21					
					23					
					25					
					27					
					29					
					31					
					33					
					35					
					37					
					39					
					41					

SUBTOTALS (AMPS): 5.5 5.5 4.5 — 7 2 4
TOTAL AMPS (CONNECTED): 12.5 7.5 8.5

40/100 AMPS TRIP/FRAME — F5/7-31 4x10+1C10

TOTAL CONNECTED LOAD 5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5				5
DEM. FACTOR	0.8				
DEMAND kVA	4				4

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-2F3
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2031.
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING + CONTROLLABLE SOCKETS, Rm 2024,2030, 2031,2032	2.5	6			1 15 / 2 20	—				SPARE
LIGHTING + CONTROLLABLE SOCKETS, Rm 2024,2025	2.5		6.5		3 15 / 4 15		2		2.5	ENCL-A ROOF
LIGHTING + CONTROLLABLE SOCKETS, Rm 2035,2036, 2039	2.5			7	5 15 / 6 20					SPARE
LIGHTING, Rm 2032A,2041, ST12+ Roof	2.5	4.5			7 15 / 8 20					SPARE
SPACE					9 / 10					SPACE
SPACE					11 / 12					SPACE
					13 / 14					
					15 / 16					
					17 / 18					
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS): 10.5 6.5 7 — — 2 —
TOTAL AMPS (CONNECTED): 10.5 8.5 7

40/100 AMPS TRIP/FRAME — F5/7-32 4x10+1C10

TOTAL CONNECTED LOAD 5.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	5.5				5.5
DEM. FACTOR	0.8				
DEMAND kVA	4.5				4.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/A-2F4
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE A), Rm 2047 a
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2057	2.5	2			1 15 / 2 20	7.5			4	SOCKETS, Rm 2052,2057
LIGHTING, Rm 2003	2.5		7		3 15 / 4 20		—		4	SPARE
LIGHTING, Rm 2002	2.5			8	5 15 / 6 12			5	2.5	CONTROLLABLE SOCKETS, Rm 2057
LIGHTING, Rm 2056A,2058,2059	2.5	7.5			7 15 / 8 12	—				SPARE
LIGHTING, Rm 2052,2054,2055	2.5		5		9 15 / 10 15		4		2.5	LIGHTING, Rm 2050
LIGHTING, Rm 2047a,2048,2049	2.5			4.5	11 15 / 12			—		SPARE
					13 / 14					
					15 / 16					
					17 / 18					
					19 / 20					
					21 / 22					
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS): 9.5 12 12.5 — 7.5 4 5
TOTAL AMPS (CONNECTED): 17 16 17.5

40/100 AMPS TRIP/FRAME — F5/7-33 4x10+1C10

TOTAL CONNECTED LOAD 11.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	9.5		2		11.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	8		1		9

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. PP/A-2F4
PANEL TYPE MCB (24-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR, (ZONE A), Rm 2047a
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
	6	15.5			1 30 / 2 20	9			4	H-17, ROOF
AHU-S2, ROOF	6		15.5		3 20 / 4		—			SPARE
	6			15.5	5 20 / 6			—		SPARE
	6	11.5			7 30 / 8 15	6			2.5	
AHU-S9, ROOF	6		11.5		9 / 10		6		2.5	H-21, ROOF
	6			11.5	11 / 12			6	2.5	
	6	11.5			13 30 / 14 15					
AHU-S8, ROOF	6		11.5		15 / 16					SPARE
	6			11.5	17 / 18					
					19 20 / 20 30					
SPARE					21 / 22					SPARE
					23 / 24					
					25 / 26					
					27 / 28					
					29 / 30					
					31 / 32					
					33 / 34					
					35 / 36					
					37 / 38					
					39 / 40					
					41 / 42					

SUBTOTALS (AMPS): 38.5 38.5 38.5 — 15 6 6
TOTAL AMPS (CONNECTED): 53.5 44.5 44.5

80/100 AMPS TRIP/FRAME — F5/4-4 31/2x25+1C16

TOTAL CONNECTED LOAD 31.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA		25.5		6	31.5
DEM. FACTOR		1		1	
DEMAND kVA		25.5		6	31.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-2F1
PANEL TYPE MCB (48-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE B),Rm 2090
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2078	2.5	7			1 15 / 2 20	7			4	SOCKETS, Rm 2078,2081
			4.5		3 15 / 4 20		8		4	SOCKETS, Rm 2080,2084
				6.5	5 15 / 6 20			5	4	SOCKETS, Rm 2076,2077,2087
		7			7 15 / 8 20	8			4	SOCKETS, Rm 27,2082,2083, 2089
LIGHTING, Rm 2082,2083,2089	2.5		6		9 15 / 10 20		4		4	SOCKETS, Rm 2085,2086
LIGHTING, Rm 2086	2.5			3.5	11 15 / 12 20			10	4	SOCKETS, Rm 27,2088,2090
LIGHTING, Rm ST4	2.5	4.5			13 15 / 14 20	8			4	SOCKETS, Rm 26,2091,2092,ST5
LIGHTING, Rm 2077	2.5		7		15 15 / 16 20		5		4	SOCKETS, Rm 2093
LIGHTING, Rm 26,2091	2.5			7	17 15 / 18 20			7	4	SOCKETS, Rm 2096,2097,2098
LIGHTING, Rm 2076	2.5	4.5			19 15 / 20 20	6			4	SOCKETS, Rm 2098,2101
LIGHTING, Rm 2077	2.5		7		21 15 / 22 20		8		4	SOCKETS, Rm 2094,2099
LIGHTING, Rm 2088	2.5			9	23 15 / 24 15			4	2.5	FRIDGE Type2, Rm 2089
LIGHTING, Rm 2088	2.5	9			25 15 / 26 15	2.5			2.5	HOOD, Rm 2089
LIGHTING, Rm 2088	2.5		7		27 15 / 28 15		14		6	COOKER Type2 , Rm 2089
LIGHTING, Rm 2101	2.5			6	29 15 / 30 15			1	2.5	FCU-S12, Rm 2091
LIGHTING, Rm 2099	2.5	6			31 15 / 32 15	—				SPARE
LIGHTING, Rm 2092	2.5		7		33 15 / 34 15		—			SPARE
LIGHTING, Rm 2101	2.5			4.5	35 15 / 36 15			—		SPARE
LIGHTING, Rm 2094	2.5	6			37 15 / 38 15	—				SPARE
LIGHTING, Rm 2092	2.5		7		39 15 / 40 30		—			SPARE
LIGHTING, Rm 2098	2.5			4.5	41 15 / 42 30			—		SPARE
LIGHTING, Rm 2092,ST5	2.5	9			43 15 / 44 20	—				SPARE
LIGHTING, Rm 27,2093	2.5		6		45 15 / 46 20		—			SPARE
LIGHTING, Rm 2096	2.5			6	47 15 / 48 20			—		SPARE

SUBTOTALS (AMPS): 53 51.5 47 — 31.5 39 27
TOTAL AMPS (CONNECTED): 84.5 90.5 74

100/100 AMPS TRIP/FRAME — F6/1-9 31/2x35+1C16

TOTAL CONNECTED LOAD 55 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	33		17	5	55
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	26.5		7	5	38.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-2F2
PANEL TYPE MCB (48-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE B),Rm 2185
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2192,2196,2197, 2198	2.5	5			1 15 / 2 20	6			4	SOCKETS, Rm 2192,2197,2198
LIGHTING, Rm 2187,2189,2190	2.5		4.5		3 15 / 4 20		6		4	SOCKETS, Rm 2187,2189,2190
LIGHTING, Rm 2191,2193,2194	2.5			7.5	5 15 / 6 20			7	4	SOCKETS, Rm 2181a,2193,2194
LIGHTING, Rm 2181,2181a	2.5	6.5			7 15 / 8 20	7			4	SOCKETS, Rm 2181,2188,2191
LIGHTING, Rm 2174,2175	2.5		4		9 15 / 10 20		7		4	SOCKETS, Rm 2177,2178,2179, ST11
LIGHTING, Rm 2177,2178,2179,2182, 2183,2186,2188	2.5			5.5	11 15 / 12 20			7	4	SOCKETS, Rm 2181,2182,2183, 2185,2186
LIGHTING, Rm 2176	2.5	9			13 15 / 14 20	6			4	SOCKETS, Rm 2174-2175
LIGHTING, Rm 2176	2.5		9		15 15 / 16 20		4		4	SOCKETS, Rm 28,2176
LIGHTING, Rm ST10	2.5			4.5	17 15 / 18 20			8	4	SOCKETS, Rm 2146,2171, 2172,2173
LIGHTING, Rm 28	2.5	1.5			19 15 / 20 20	6			4	SOCKETS, Rm 2164,2168,2170
LIGHTING, Rm 2172,2173	2.5		1.5		21 15 / 22 20		6		4	SOCKETS, Rm 2161,2165
LIGHTING, Rm 2146	2.5			5.5	23 15 / 24 20			6	4	SOCKETS, Rm 2166,2167
LIGHTING, Rm 2166,2167	2.5	4.5			25 15 / 26 20	6			4	SOCKETS, Rm 2156,2159,2160
LIGHTING, Rm 2168,2169,2170	2.5		5.5		27 15 / 28 20		6		4	SOCKETS, Rm 2157,2158
LIGHTING, Rm 2158,2159	2.5			4	29 15 / 30 20			4	4	SOCKETS, Rm 2162
LIGHTING, Rm 2162,2163	2.5	5.5			31 15 / 32 15	4			2.5	FRIDGE Type2, Rm 2183
LIGHTING, Rm 2160,2161,2164, 2165	2.5		6		33 15 / 34 15		2.5		2.5	HOOD, Rm 2183
LIGHTING, Rm 2156,2157	2.5			6	35 15 / 36 20			14	6	COOKER Type2, Rm 2183
SPARE		—			37 15 / 38 15	4			2.5	FRIDGE Type2, Rm 2179
FCU-S9, Rm 2178	2.5		4		39 15 / 40 20		14		6	COOKER Type2, Rm 2179
SPARE				—	41 15 / 42 15			2.5	2.5	HOOD, Rm 2179
SPARE		—			43 15 / 44 20	—				SPARE
SPARE			—		45 15 / 46 20		—			SPARE
SPARE				—	47 30 / 48 20			—		SPARE

SUBTOTALS (AMPS): 32 34.5 33 — 39 45.5 48.5
TOTAL AMPS (CONNECTED): 71 80 81.5

100/100 AMPS TRIP/FRAME — F6/2-6 31/2x35+1C16

TOTAL CONNECTED LOAD 52 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	21.5		20.5	10	52
DEM. FACTOR	0.8		0.4	0.8	
DEMAND kVA	17.5		8.5	8	34

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-2F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE B),Rm 2090
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2076,2077	2.5	6.5			1 15 / 2 20	7.5			4	SOCKETS, Rm 2078,2081,2082
LIGHTING, Rm 2080,2085	2.5		2.5		3 15 / 4 20		5		4	SOCKETS, Rm 2080,2086
LIGHTING, Rm 2078,2082	2.5			5	5 15 / 6 20			10	4	SOCKETS, Rm 2093
LIGHTING, Rm 2088	2.5	5.5			7 15 / 8 20	5			4	SOCKETS, Rm 2091,2096
LIGHTING, Rm 2093,2097	2.5		6.5		9 15 / 10 20		5		4	SOCKETS, Rm 2094,2099
LIGHTING, Rm 2092	2.5			5.5	11 15 / 12 15			7.5	2.5	CONTROLLABLE SOCKETS, Rm 2096,2101
LIGHTING, Rm 2095,2098,2100	2.5	3			13 15 / 14 15	5			2.5	CONTROLLABLE SOCKETS, Rm 2094,2099
CONTROLLABLE SOCKETS, Rm 2084	2.5		5		15 15 / 16 15					SPARE
LIGHTING ROOF					17 15 / 18 20					SPARE
					19					
					21					
					23					
					25					
					27					
					29					
					31					
					33					
					35					
					37					
					39					
					41					

SUBTOTALS (AMPS): 15 14 10.5 — 17.5 10 17.5
TOTAL AMPS (CONNECTED): 32.5 24 28

40/100 AMPS TRIP/FRAME — F5/7-17 4x10+1C10

TOTAL CONNECTED LOAD 19 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	11.5		7.5		19
DEM. FACTOR	0.8		0.4		
DEMAND kVA	9.5		3		12.5

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@A.DRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

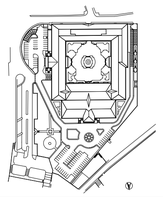
CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-10

SHEET NO.
L1202-CD-E-052-A1

Revision NO.
00

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/B-2F2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd floor,(ZoneB),Rm 2185
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2179,2181,2184 2185,2195	2.5	3.5			15/1, 20/2	7.5			4	SOCKETS, Rm 2192,2197
LIGHTING, Rm ST10	2.5		3		15/3, 20/4		7.5		4	SOCKETS,Rm 2187,2190
LIGHTING, Rm 2176	2.5			4	15/5, 20/6			7.5	4	SOCKETS, Rm 2191,2193,2194
LIGHTING, Rm 2146,2171	2.5	5			15/7, 20/8	7.5			4	SOCKETS, Rm 2177,2188,2191
EMCC / B-R1	2.5		2		15/9, 20/10		5		4	SOCKETS, Rm 2175
SOCKETS, Rm 2162,2166,2167	4			7.5	20/11, 20/12			7.5	4	SOCKETS, Rm 2174
SPARE		–			20/13, 20/14	7.5			4	SOCKETS, Rm 2161,2165,2170
SPARE			–		20/15, 20/16		7.5		4	SOCKETS, Rm 2157,2158
SPARE				–	20/17, 20/18			7.5	4	SOCKETS, Rm 2156,2157
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		8.5	5	11.5		22.5	20	22.5		
TOTAL AMPS (CONNECTED)		22.5	20	22.5						
		31	25	34						

40/100 AMPS TRIP/FRAME — F5/7-25 4x10+1C10

TOTAL CONNECTED LOAD 19.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3.5		16		19.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	3		6.5		9.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-2F2
PANEL TYPE MCB (36-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE C),Rm 2139
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2151,2152,2153,2154 2155	2.5	6.5			15/1, 20/2	6			4	SOCKETS, Rm 2151,2152,2153
LIGHTING, Rm 2142,2143,2150	2.5		6.5		15/3, 20/4		6		4	SOCKETS, Rm 2154,2155
LIGHTING, Rm 2128,2131	2.5			8	15/5, 20/6			6	4	SOCKETS, Rm 2143,2149
LIGHTING, Rm 2141,2147,2149,2152	2.5	5.5			15/7, 20/8	8			4	SOCKETS, Rm 2131,2132
LIGHTING, Rm 2132	2.5		7.5		15/9, 20/10		5		4	SOCKETS, Rm 2128,2129
LIGHTING, Rm 2129	2.5			6	15/11, 20/12			9	4	SOCKETS, Rm 2125,2126,2136 2125a,2125b,2127,ST9
LIGHTING, Rm 2136,2137,2138,2140 2144,2145	2.5	5			15/13, 20/14	6			4	SOCKETS, Rm 2141,2147,2150
LIGHTING, Rm 2126,2127,2133,2134 +MECHANICAL SHAFT	2.5		7.5		15/15, 20/16			8	4	SOCKETS, Rm 2137,2138,2139 2140,2144,2145
LIGHTING, Rm 2125,2125a	2.5			7	15/17, 20/18			6	4	SOCKETS, Rm 2133,2134,2135
LIGHTING, Rm 2125b	2.5	4.5			15/19, 20/20	–				SPARE
SPARE			–		15/21, 20/22		–			SPARE
SPARE				–	25/23, 20/24			14	6	COOKER Type2 Rm 2138
SPACE					25/25, 15/26	2.5			2.5	HOOD Rm 2138
SPACE					15/27, 15/28			4	2.5	FRIDGE Type2 Rm 2138
SPACE					29, 15/30			1	2.5	FCU-S10 Rm 2127
SPACE					31, 20/32	–				SPARE
SPACE					33, 30/34		–			SPARE
SPACE					35, 15/36			–		SPARE
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		21.5	21.5	21		22.5	23	36		
TOTAL AMPS (CONNECTED)		22.5	23	36						
		44	44.5	57						

80/100 AMPS TRIP/FRAME — F6/2-1 31/2x25+1C16

TOTAL CONNECTED LOAD 32.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	14.5		13	5	32.5
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	12		5.5	5	22.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-2F1
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE C), Electrical shaft
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2103	2.5	4			15/1, 20/2	10			4	SOCKETS, Rm 2103,2111
LIGHTING, Rm 2103	2.5		4		15/3, 20/4		10		4	SOCKETS, Rm 2103
LIGHT., Rm 2111,2112,2113,2120	2.5			5.5	15/5, 20/6			10	4	SOCKETS, Rm 2103
LIGHTING, Rm 2103	2.5	4			15/7, 20/8	10			4	SOCKETS, Rm 2112,2118,2120,2124
LIGHTING, Rm 2108,2108a,2114	2.5		7		15/9, 20/10		7.5		4	SOCKETS, Rm 2119,2121,2122
LIGHT., Rm 2102,2104,2109,ST6	2.5			5	15/11, 15/12			5	4	SOCKETS, Rm 2115a,2116
LIGHT., Rm 2119+ELECT. SHAFT +ROOF	2.5	3.5			15/13, 15/14	2			2.5	EMCC/C-R1
SPARE					20/15, 20/16					SPARE
LIGHT. 2103	2.5			7	15/17, 20/18					SPARE
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		11.5	11	10.5		22	17.5	15		
TOTAL AMPS (CONNECTED)		22	17.5	15						
		33.5	28.5	25.5						

40/100 AMPS TRIP/FRAME — F5/7-13 4x10+1C10

TOTAL CONNECTED LOAD 19 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	7.5		11.5		19
DEM. FACTOR	0.8		0.4		
DEMAND kVA	6		5		11

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. EUP/C-2F2
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE C),Rm 2139
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 10 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2136,2139,2144,2145	2.5	4			15/1, 20/2	7.5			4	SOCKETS, Rm 2153
LIGHTING, Rm 2126,2125a,ST8	2.5		4		15/3, 20/4		7.5		4	SOCKETS, Rm 2149,2154,2155
LIGHTING, Rm 2131,2130,2129	2.5			5	15/5, 20/6			5	4	SOCKETS, Rm 2143,2150
SPARE					15/7, 20/8	7.5			4	SOCKETS, Rm 2129,2131,2132
SPARE					15/9, 20/10		10		4	SOCKETS, Rm 2133,2134
SPACE					11, 15/12			2	2.5	EMCC/C -R2 EMCC/C -R3
SPACE					13, 20/14					SPARE
SPACE					15, 16					SPACE
SPACE					17, 18					SPACE
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		4	4	5		15	17.5	7		
TOTAL AMPS (CONNECTED)		15	17.5	7						
		19	21.5	12						

40/100 AMPS TRIP/FRAME — F5/7-21 4x10+1C10

TOTAL CONNECTED LOAD 12 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	3		9		12
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2.5		4		6.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/A-R
PANEL TYPE MCB (18-WAY)

BUILDING GRAND SERAIL — LOCATION ROOF (ZONE A)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING	2.5	8.5			15/1, 20/2	8			4	SOCKETS
LIGHTING	2.5		4		15/3, 20/4		5		4	SOCKETS
LIGHTING	2.5			6.5	15/5, 20/6			3	4	SOCKETS
LIGHTING	2.5	6			15/7, 20/8					SPARE
LIGHTING	2.5		6.5		15/9, 20/10					SPARE
LIGHTING	2.5			4.5	11/15, 15/12			2	2.5	SMOKE EXH.
SPARE					13/15, 15/14					SPARE
LIGHTING	2.5	3			15/15, 15/16					SPACE
LIGHTING	2.5		2		17/15, 15/18					SPACE
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		14.5	13.5	13		8	5	5		
TOTAL AMPS (CONNECTED)		8	5	5						
		22.5	18.5	18						

40/100 AMPS TRIP/FRAME — F5/1-1 4x10+1C10

TOTAL CONNECTED LOAD 12.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	9		3.5		12.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	7.5		1.5		9

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-R1
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION ROOF (ZONE B)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING	2.5	4			15/1, 20/2	2			2.5	SMOKE EXH.
LIGHTING	2.5		6.5		15/3, 20/4					SPARE
SPARE					15/5, 20/6			4	4	SOCKETS
SPARE					15/7, 8					SPACE
SPACE					9, 10					SPACE
SPACE					11, 12					SPACE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		4	6.5	–		2	–	4		
TOTAL AMPS (CONNECTED)		2	–	4						
		6	6.5	4						

40/100 AMPS TRIP/FRAME — F6/1-10 4x10+1C10

TOTAL CONNECTED LOAD 3.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	2.5		1		3.5
DEM. FACTOR	0.8		0.4		
DEMAND kVA	2		0.5		2.5

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/B-R2
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION ROOF (ZONE B)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING	2.5	7.5			15/1, 20/2	–			–	SPARE
SPARE					15/3, 20/4		3		4	SOCKETS
SPARE					15/5, 20/6			2	2.5	SMOKE EXH.
SPACE					7, 8					SPACE
SPACE					9, 10					SPACE
SPACE					11, 12					SPACE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		7.5	–	–		–	3	2		
TOTAL AMPS (CONNECTED)		–	3	2						
		7.5	3	2						

40/100 AMPS TRIP/FRAME — F6/2-5 4x10+1C10

TOTAL CONNECTED LOAD 3 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	2		1		3
DEM. FACTOR	0.8		0.4		
DEMAND kVA	1.5		0.5		2

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-R
PANEL TYPE MCB (12-WAY)

BUILDING GRAND SERAIL — LOCATION ROOF (ZONE C)
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 6 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING	4	5.5			15/1, 20/2	6			4	SOCKETS
LIGHTING	4		5		15/3, 20/4		6		4	SOCKETS
LIGHTING	4			9	15/5, 20/6			4	4	T.V STARTING
LIGHTING	2.5	4			15/7, 20/8					SPARE
LIGHTING	4		3		15/9, 15/10					SPARE
SMOKE EXH.	2.5			2	15/11, 15/12					SPARE
					13, 14					
					15, 16					
					17, 18					
					19, 20					
					21, 22					
					23, 24					
					25, 26					
					27, 28					
					29, 30					
					31, 32					
					33, 34					
					35, 36					
					37, 38					
					39, 40					
					41, 42					
SUBTOTALS (AMPS)		9.5	8	11		6	6	4		
TOTAL AMPS (CONNECTED)		6	6	4						
		15.5	14	15						

40/100 AMPS TRIP/FRAME — F6/1-4 4x10+1C10

TOTAL CONNECTED LOAD 9 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	6		3		9
DEM. FACTOR	0.8		0.3		
DEMAND kVA	5		1		6

FINAL BRANCH CIRCUIT PANELBOARD

PANEL REF. LP/C-2F1
PANEL TYPE MCB (42-WAY)

BUILDING GRAND SERAIL — LOCATION 2nd. FLOOR (ZONE C), Electrical shaft
VOLTAGE & FREQ. 380/220V,50Hz. — S.C. RATING (I.C.) 16 kA

DESIGNATION OF LOAD	WIRE SIZE mm2	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE mm2	DESIGNATION OF LOAD
LIGHTING, Rm 2103	2.5	7			15/1, 20/2	6			4	SOCKETS, Rm 2103
LIGHTING, Rm 2103	2.5		7		15/3, 20/4		6		4	SOCKETS, Rm 2103
LIGHTING, Rm 2103	2.5			7	15/5, 20/6			7	4	SOCKETS, Rm 2103
LIGHTING, Rm 2103	2.5	7			15/7, 20/8	7			4	SOCKETS, Rm 2111,2112
LIGHTING, Rm 2103	2.5		7		15/9, 20/10		7		4	SOCKETS, Rm 2112,2113,2117,2118
LIGHTING, Rm 2111	2.5			7	15/11, 20/12			10	4	SOCKETS, Rm 2119,2121,2122
LIGHTING, Rm 2104	2.5	7			15/13, 20/14	7			4	SOCKETS, Rm 2120,2123,2124
LIGHTING, Rm 2117,2118,2123,2124	2.5		7		15/15, 20/16		6		4	SOCKETS, Rm 2115,2115a,2116
LIGHTING, Rm 2107,2108a,2114	2.5			7	15/17, 20/18			9	4	SOCKETS, Rm 2105,2106,2109,2110
LIGHTING, Rm 2102	2.5	6			15/19, 20/20	7			4	SOCKETS, Rm 2107,2108,2108a,2114 +ELECTRIC SHAFT
LIGHTING, Rm 2120	2.5		6		15/21, 20/22		7		4	SOCKETS, Rm 2102,2104
LIGHTING, Rm 2108,2108a,2114	2.5			7	15/23, 20/24			7	4	SOCKETS 2103
LIGHTING, Rm 2115,2115a,2116,2121 2122	2.5	6.5			25/25, 20/26	7			4	SPARE 2103
LIGHTING, Rm 2112	2.5		4.5		15/27, 20/28		14		6	COOKER Type2 Rm 2106
LIGHTING, Rm 2105,2106,2109,2110	2.5			5	25/29, 15/30			2.5	2.5	HOOD Rm 2106
LIGHTING, Rm 2119	2.5	6			15/31, 15/32	4			2.5	FRIDGE Type2 Rm 2106
LIGHTING, Rm 2112	2.5		4.5		15/33, 15/34		1		2.5	FCU-S11 Rm 2110
SPARE				–	15/35, 15/36			5	2.5	PROJECTOR + VIDEO SCREEN Rm 2103
SPARE			–		15/37, 15/38					SPARE
LIGHTING, 2103	2.5		7		15/39, 20/40					SPARE
SPARE				–	15/41, 30/42					SPARE
SUBTOTALS (AMPS)		39.5	36	33		31	41	33.5		
TOTAL AMPS (CONNECTED)		31	41	33.5						
		70.5	77	66.5						

100/100 AMPS TRIP/FRAME — F6/1-3 31/2x35+1C16

TOTAL CONNECTED LOAD 47.5 kVA

	LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
CONN. kVA	24		17.5	6	47.5
DEM. FACTOR	0.8		0.4	1	
DEMAND kVA	19.5		7	6	32.5

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

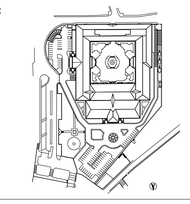
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



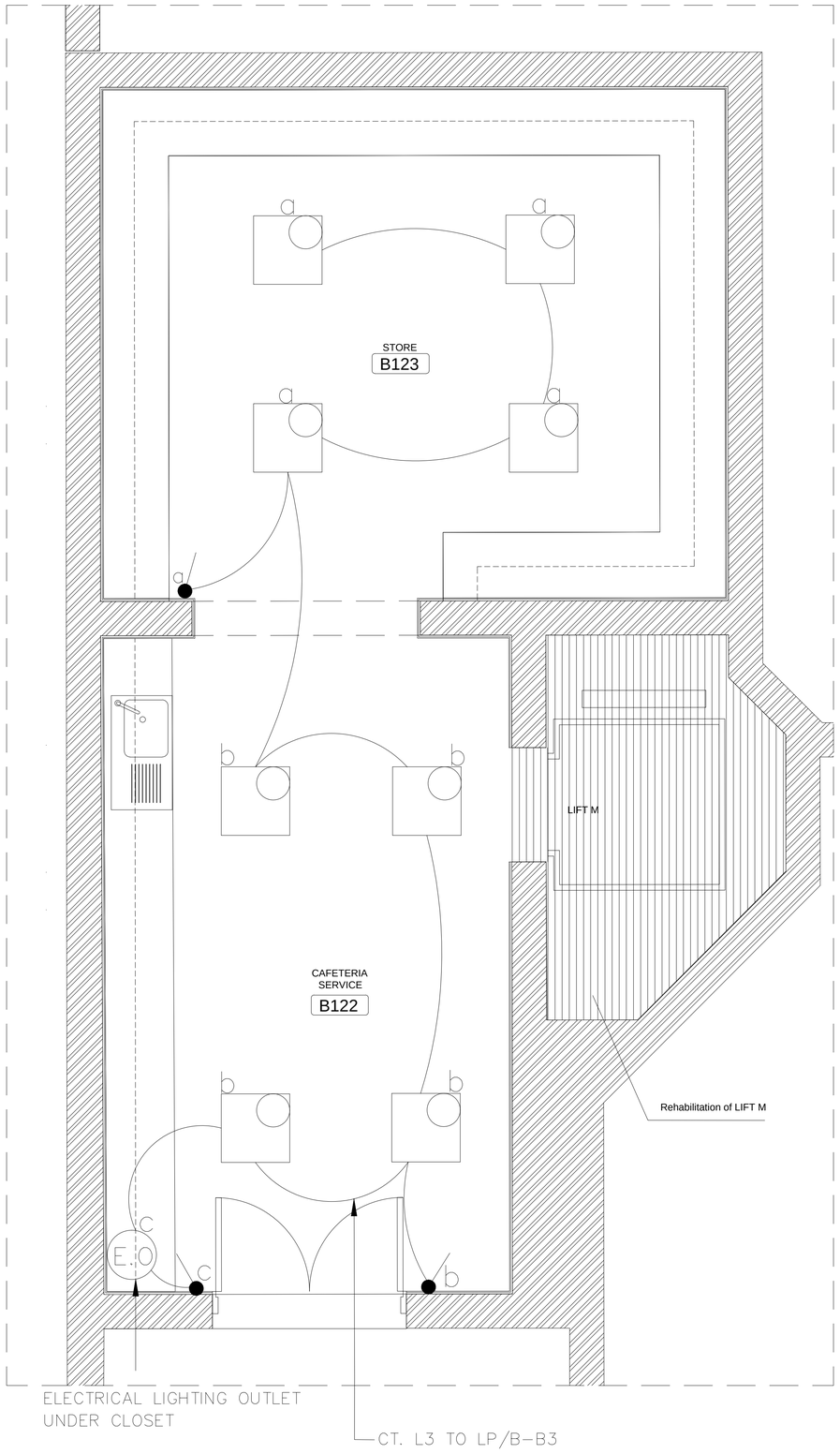
SCALE
NTS

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Panel Boards Schedule-11

SHEET NO. L1202-CD-E-053-A1

Revision NO. 00



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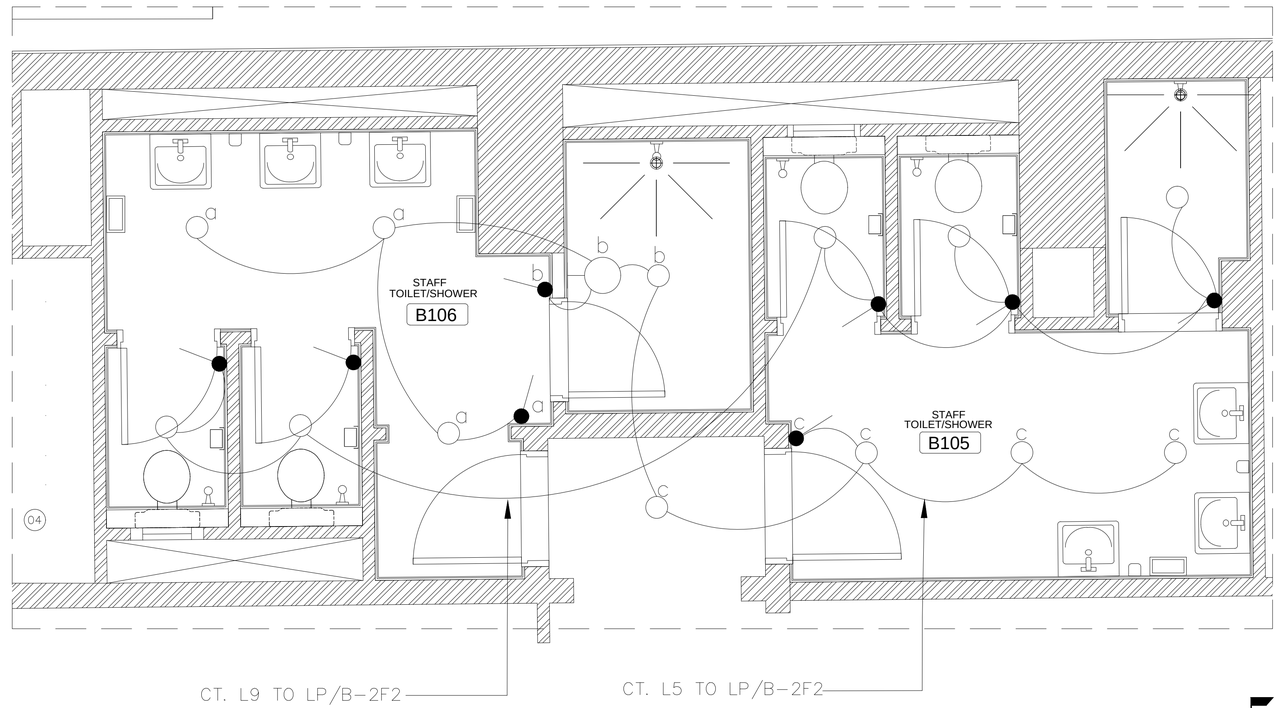

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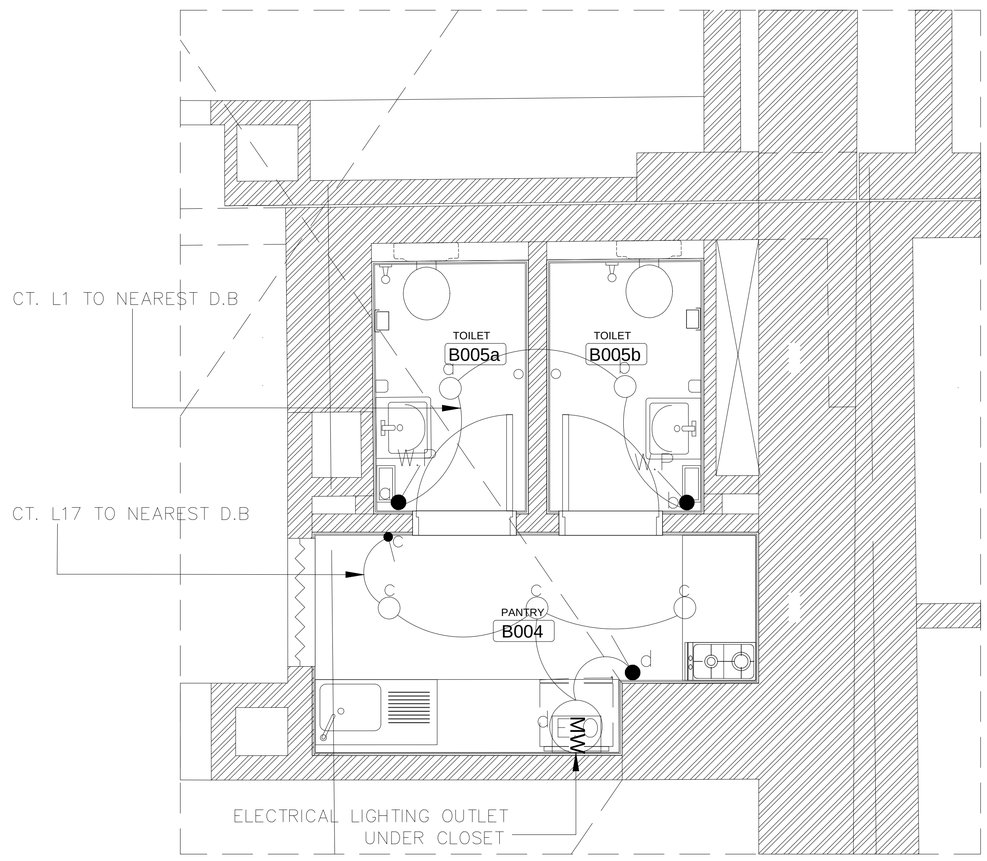

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OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

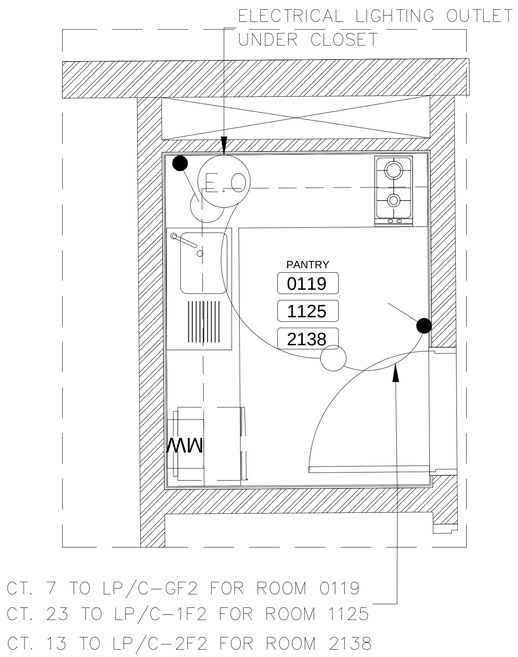
SCALE
1/25

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Wet Areas Lighting Layout

SHEET NO.
L1202-CD-E-100-A1

Revision NO.
00



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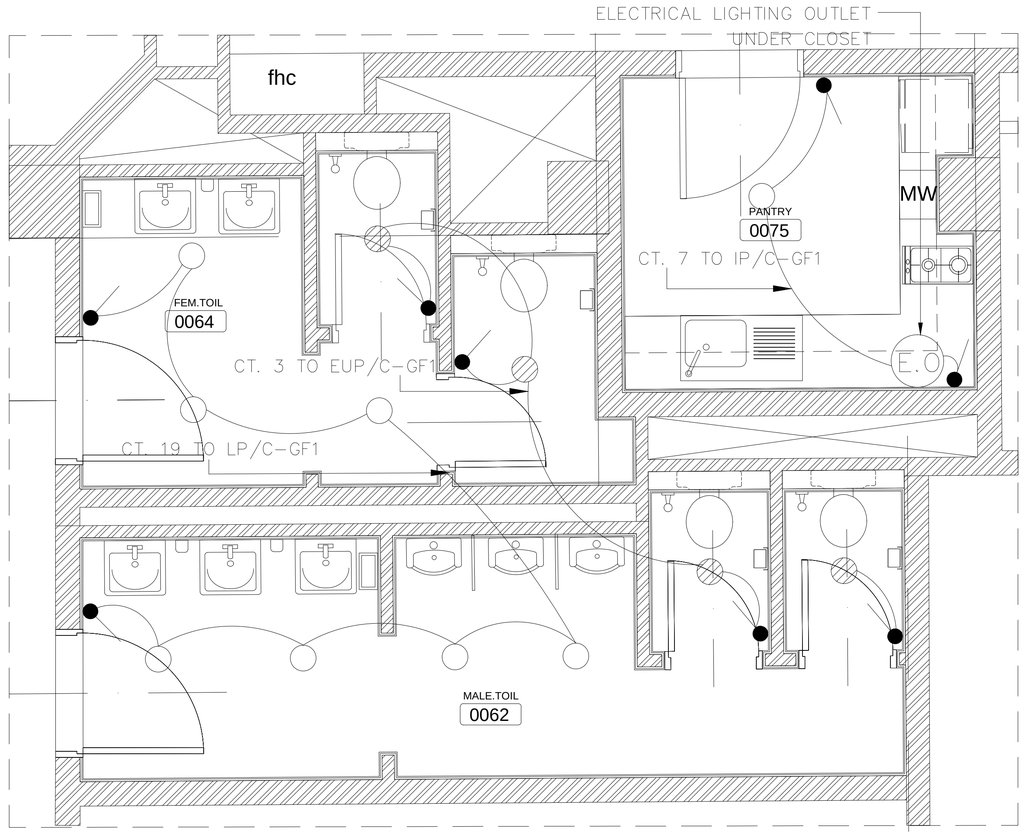

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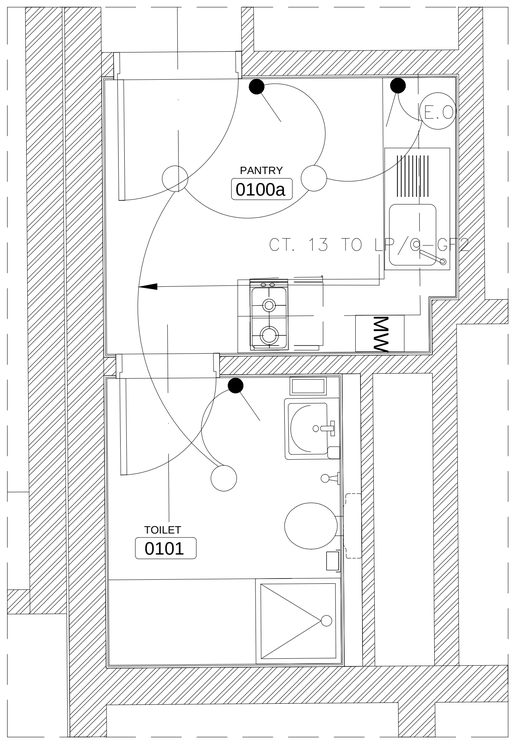

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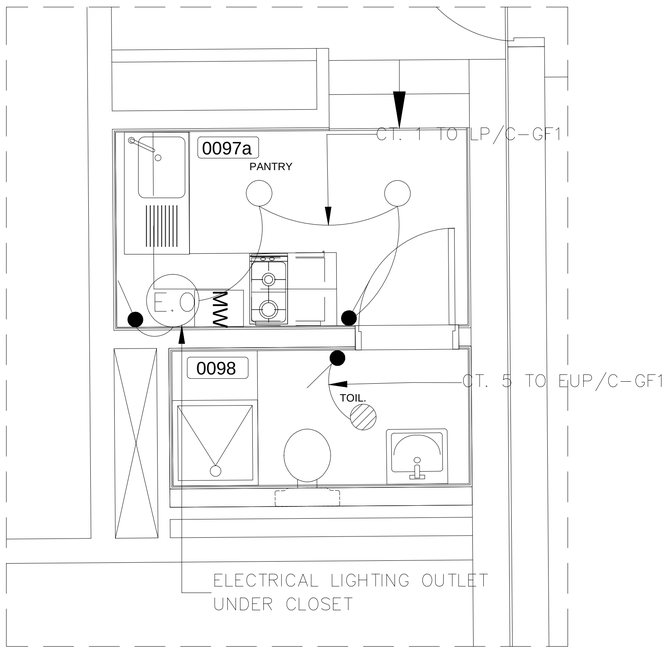

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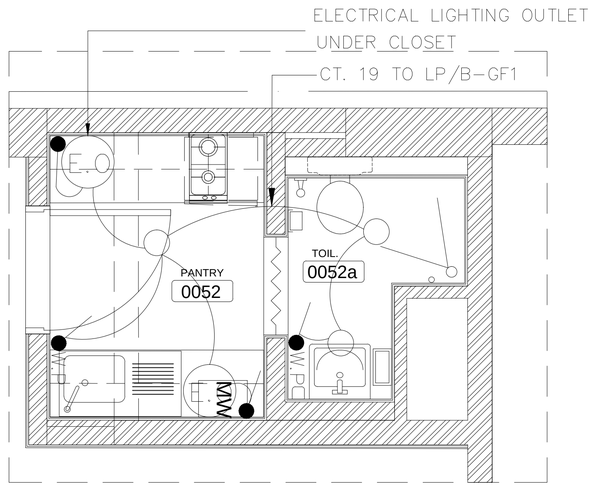


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

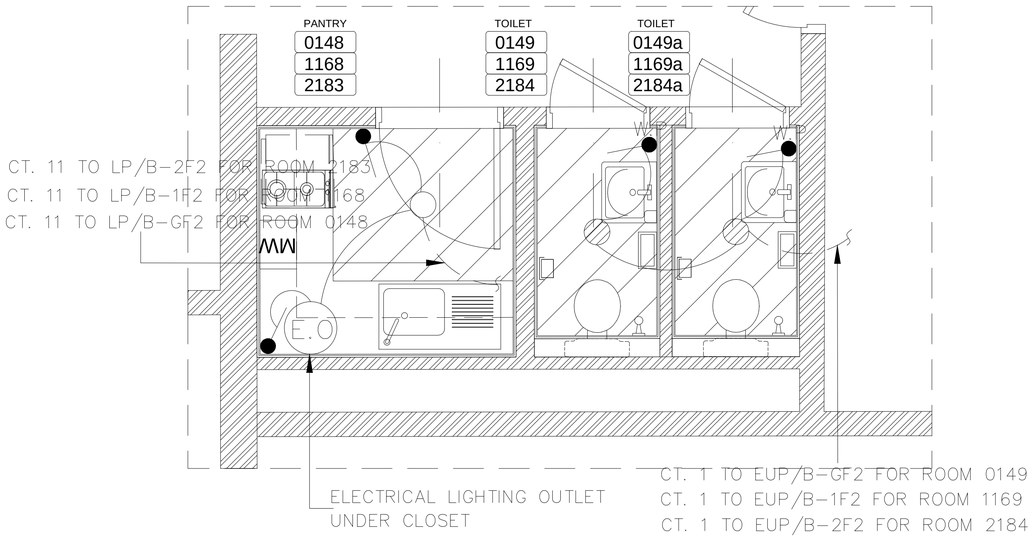
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Ground Floor Wet Areas Lighting Layout (1/2)

SHEET NO.
L1202-CD-E-101-A1

Revision NO.
00



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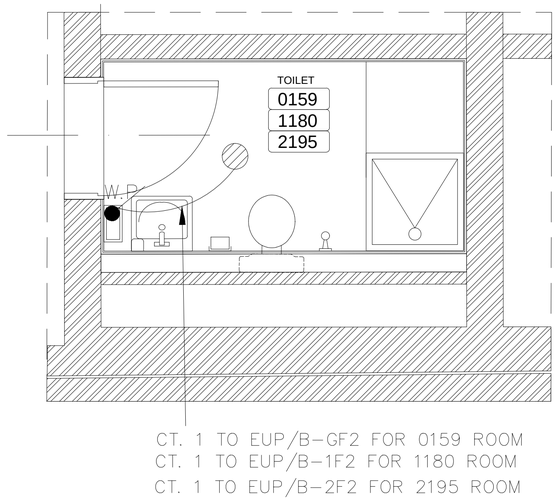

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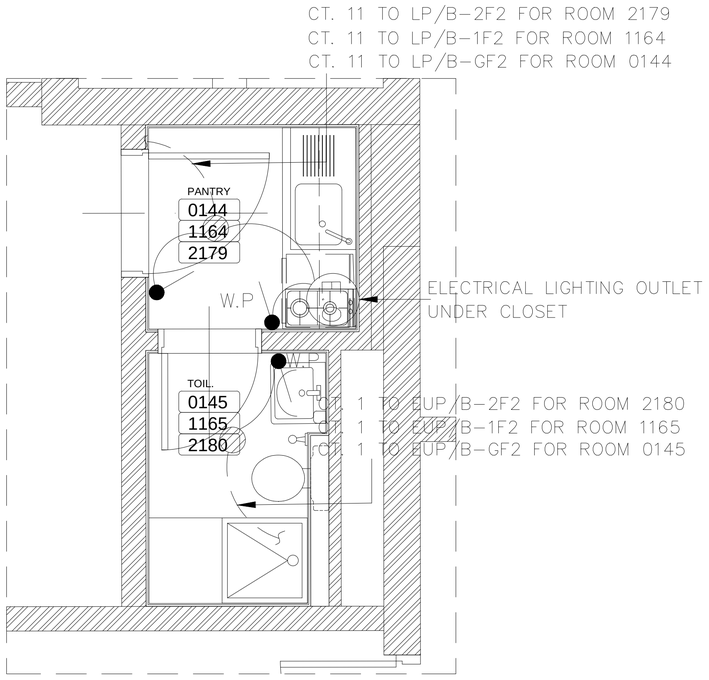

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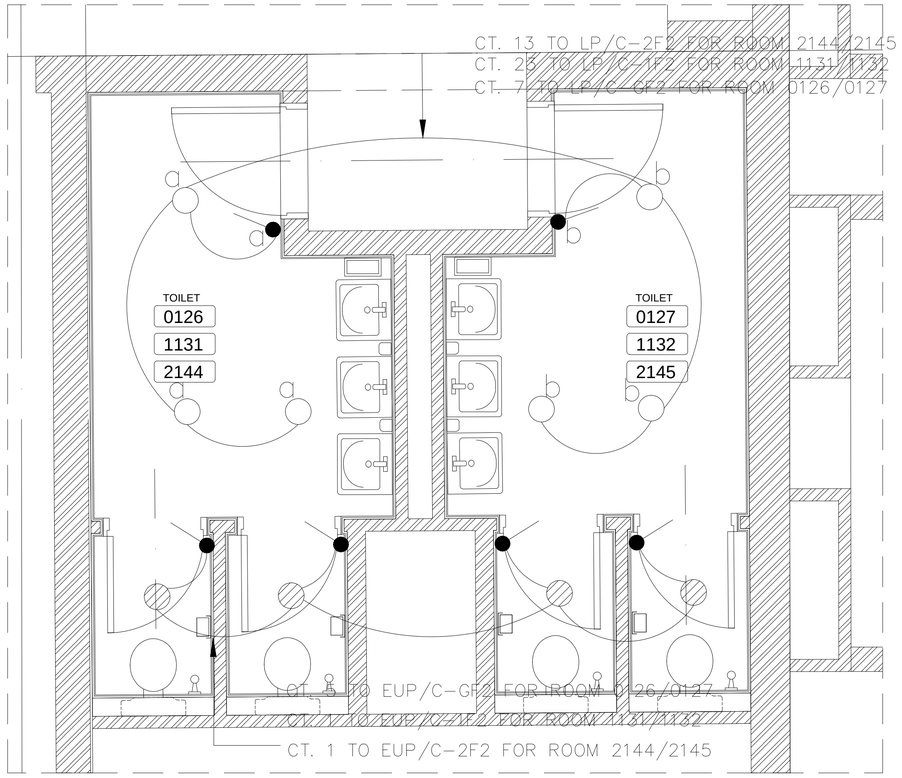


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

N

KEY PLAN:

SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

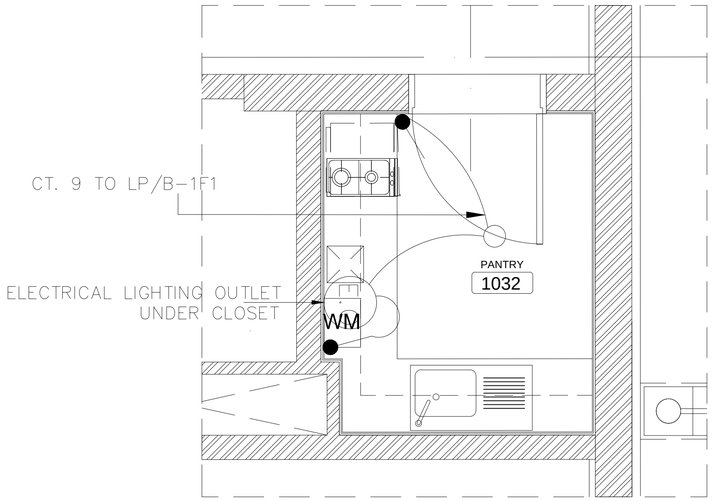
APPROVED BY :AC

SHEET TITLE

Ground Floor Wet Areas Lighting Layout (2/2)

SHEET NO.
L1202-CD-E-102-A1

Revision NO.
00



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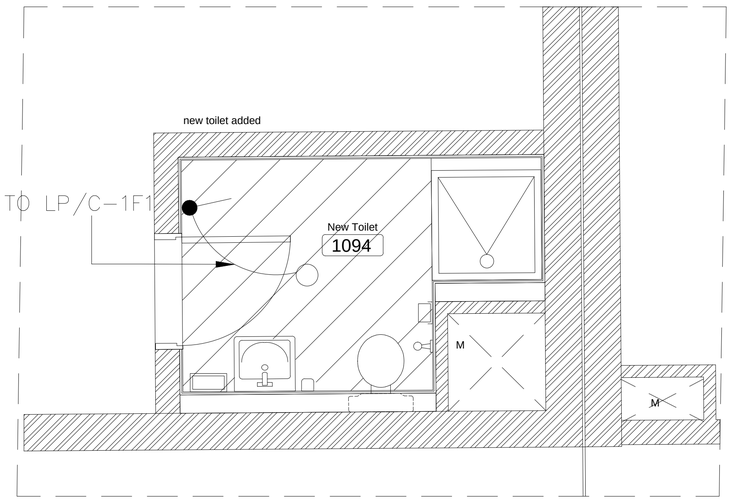

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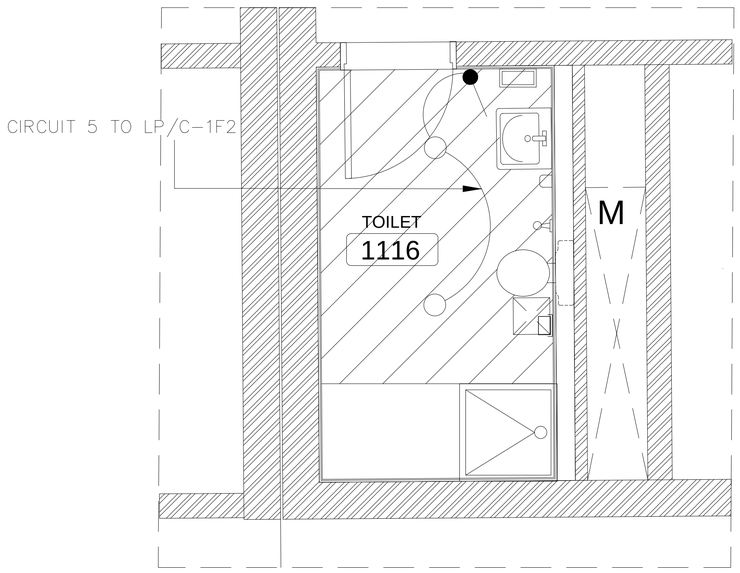

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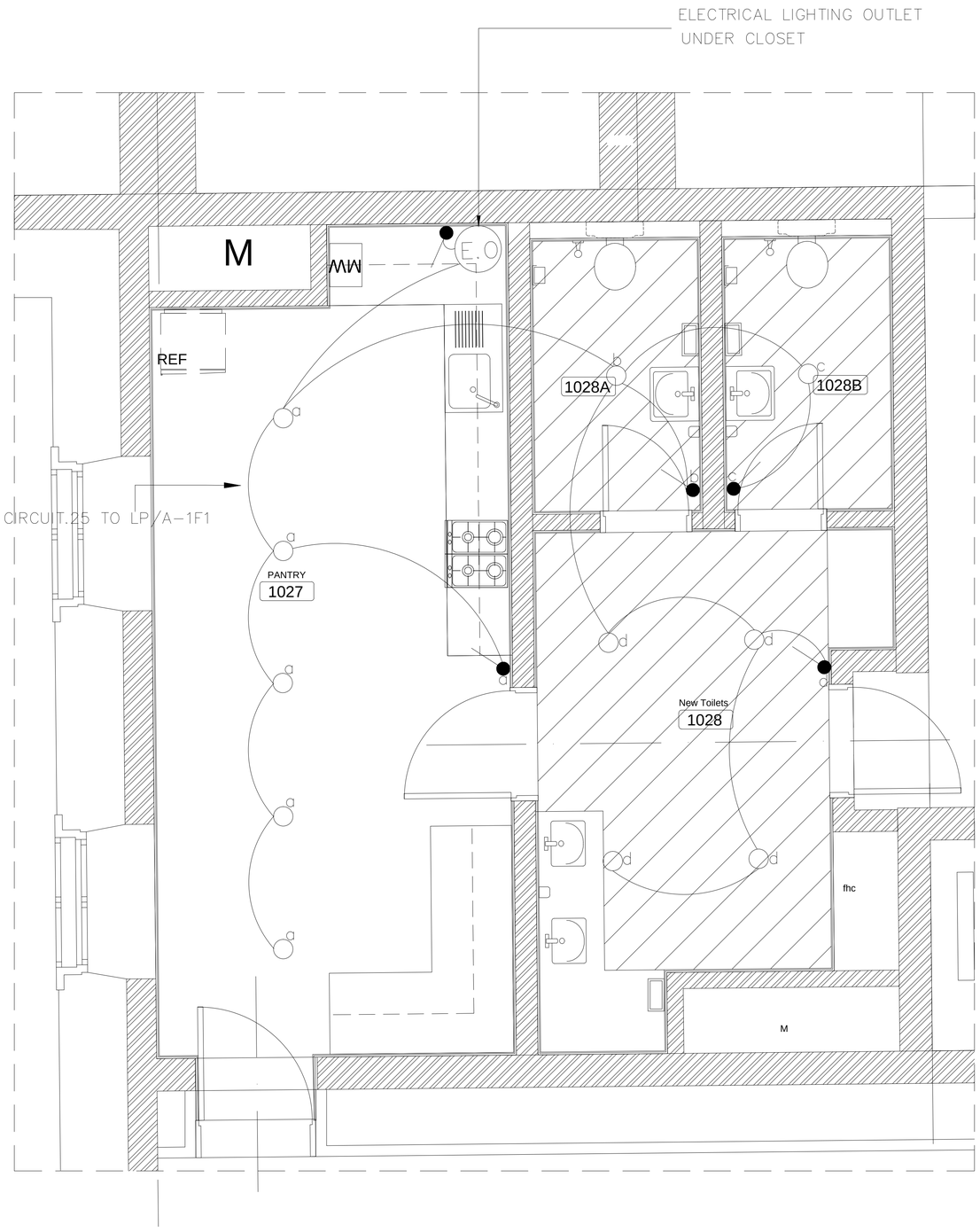


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

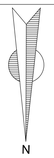
PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

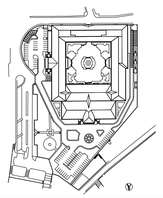
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:



SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

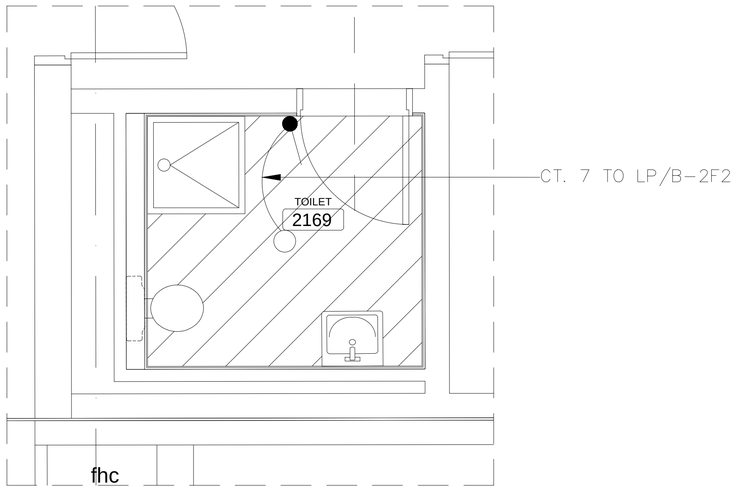
APPROVED BY :AC

SHEET TITLE

First Floor Wet Areas Lighting Layout

SHEET NO.
L1202-CD-E-103-A1

Revision NO.
00



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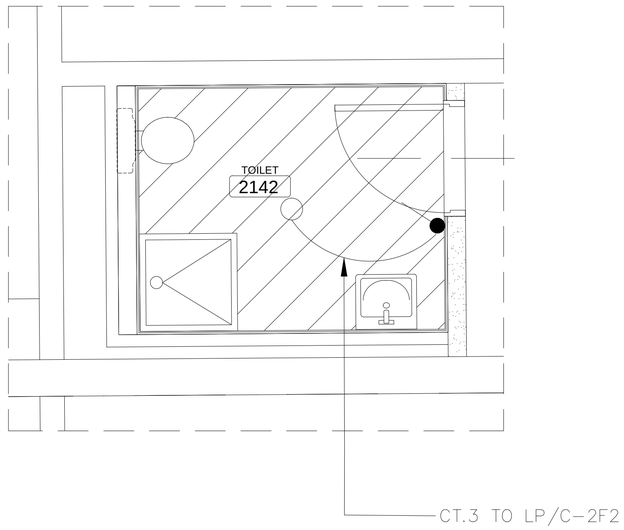

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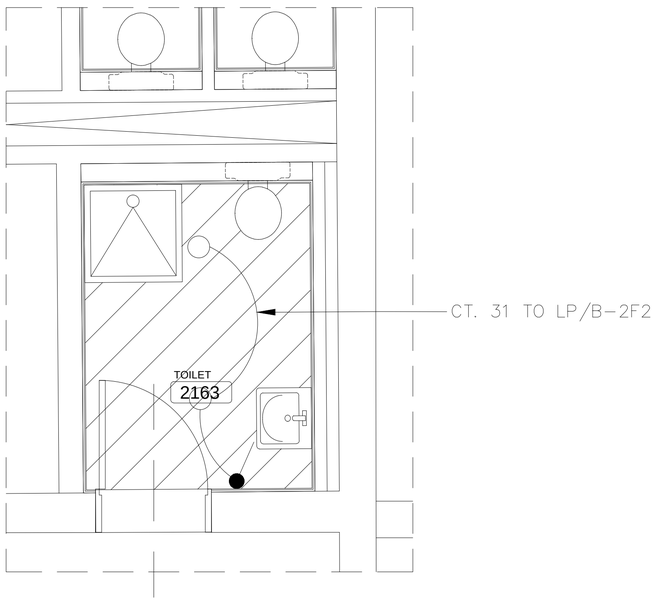

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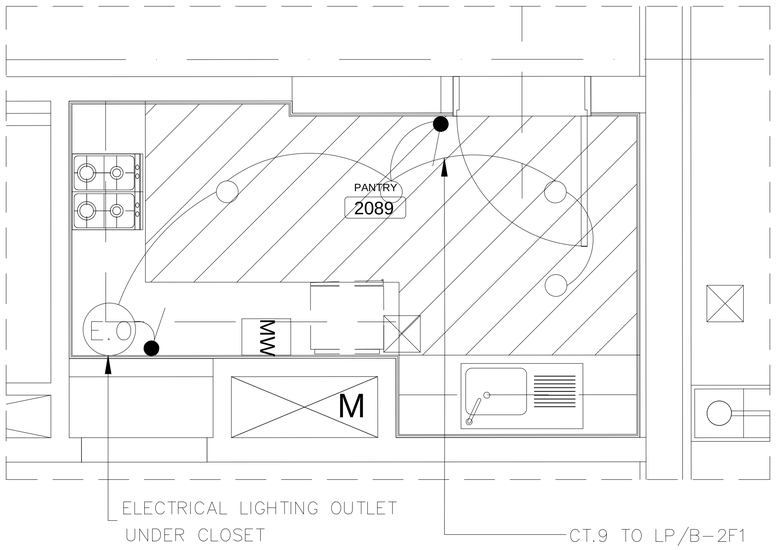


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

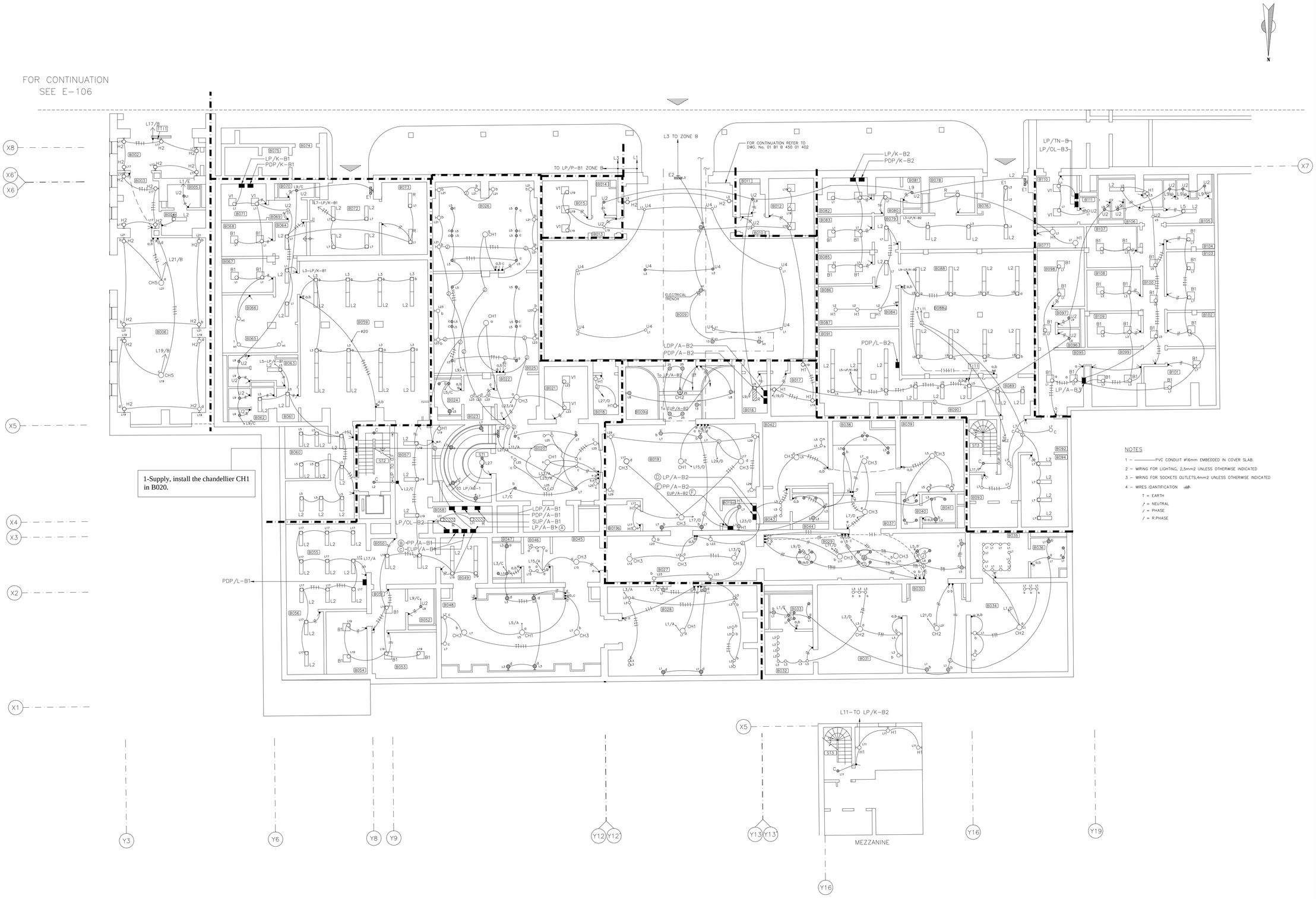
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Second Floor Wet Areas Lighting Layout

SHEET NO.
L1202-CD-E-104-A1

Revision NO.
00



NOTES

1 – ————PVC CONDUIT ø16mm EMBEDDED IN COVER SLAB.

2 – WIRING FOR LIGHTING, 2,5mm2 UNLESS OTHERWISE INDICATED

3 – WIRING FOR SOCKETS OUTLETS,4mm2 UNLESS OTHERWISE INDICATED

4 – WIRES IDANTIFICATION

T = EARTH

/ = NEUTRAL

/ = PHASE

/ = R.PHASE

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

ACHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

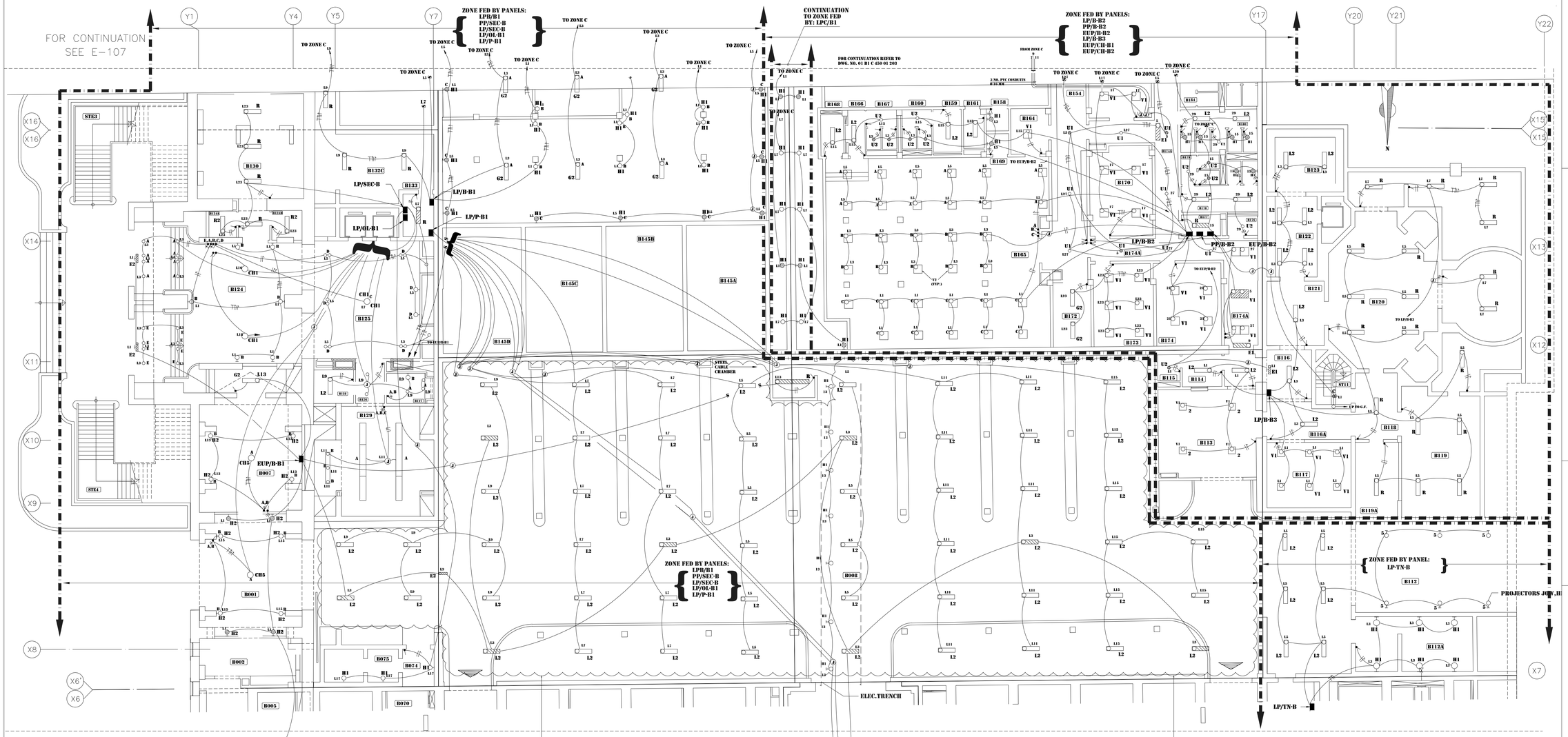
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Basement Floor Zone A Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-105-A1	00



Distribution of the Linear led light in parking Basement shall be as per the existing lighting in the parking

Distribution of the Linear led light in parking Basement shall be as per the existing lighting in the parking

NOTES

1 - PVC CONDUIT Ø16MM EMBEDDED IN COVER SLAB.

2 - WIRING FOR LIGHTING, 2.5MM2 UNLESS OTHERWISE INDICATED

3 - WIRING FOR SOCKETS OUTLETS, 4MM2 UNLESS OTHERWISE INDICATED

4 - WIRES IDANTIFICATION

T = EARTH

N = NEUTRAL

R = PHASE

B = B.PHASE

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

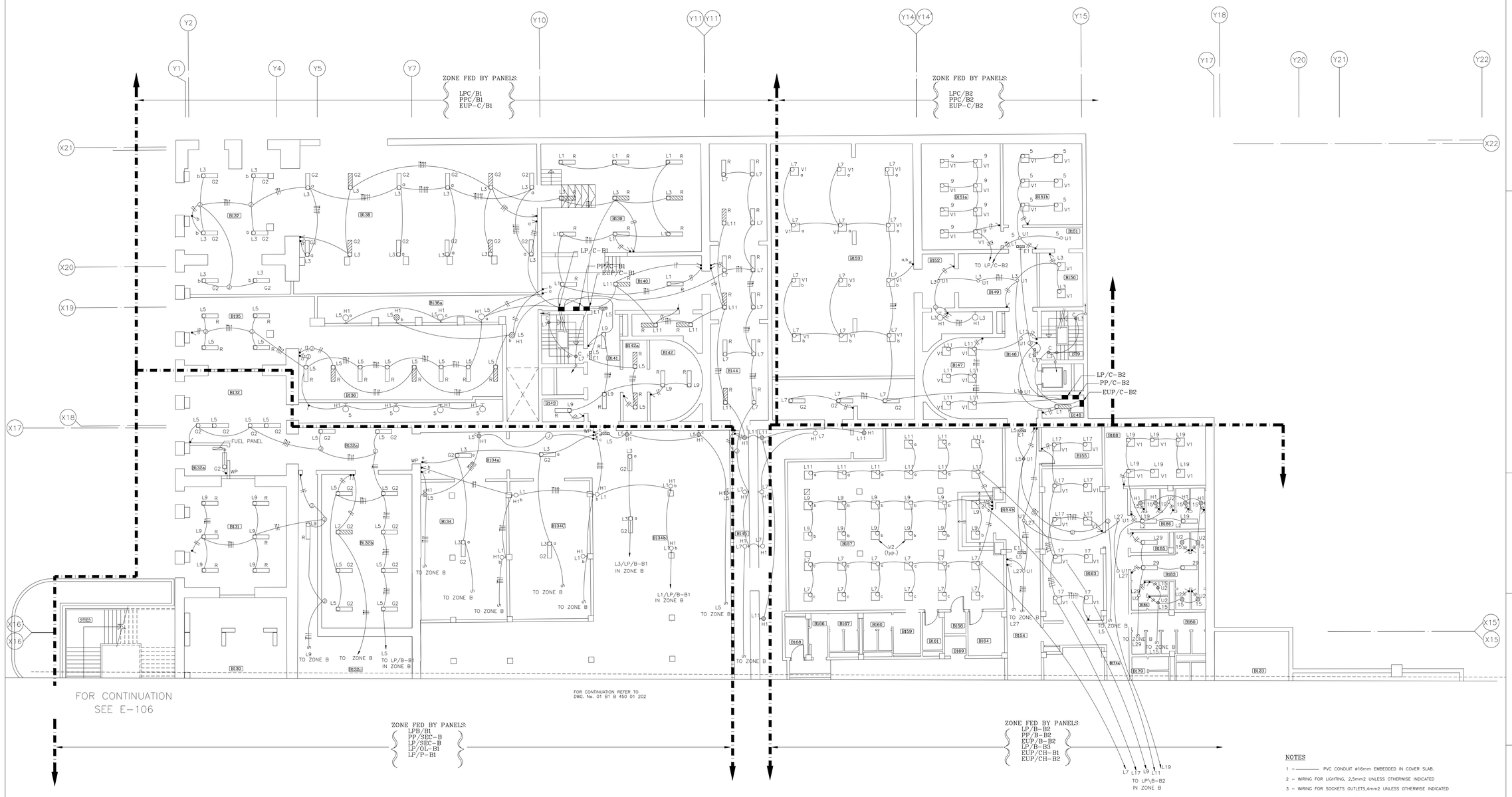
APPROVED BY :AC

SHEET TITLE

Basement Floor Zone B Lighting Layout

SHEET NO. L1202-CD-E-106-A1

Revision NO. 00



NOTES

1 – ———— PVC CONDUIT ø16mm EMBEDDED IN COVER SLAB.

2 – WIRING FOR LIGHTING, 2,5mm2 UNLESS OTHERWISE INDICATED

3 – WIRING FOR SOCKETS OUTLETS,4mm2 UNLESS OTHERWISE INDICATED

4 – WIRES IDANTIFICATION

T = EARTH

= NEUTRAL

= PHASE

= R.PHASE

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

ACHEHAArchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE:May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

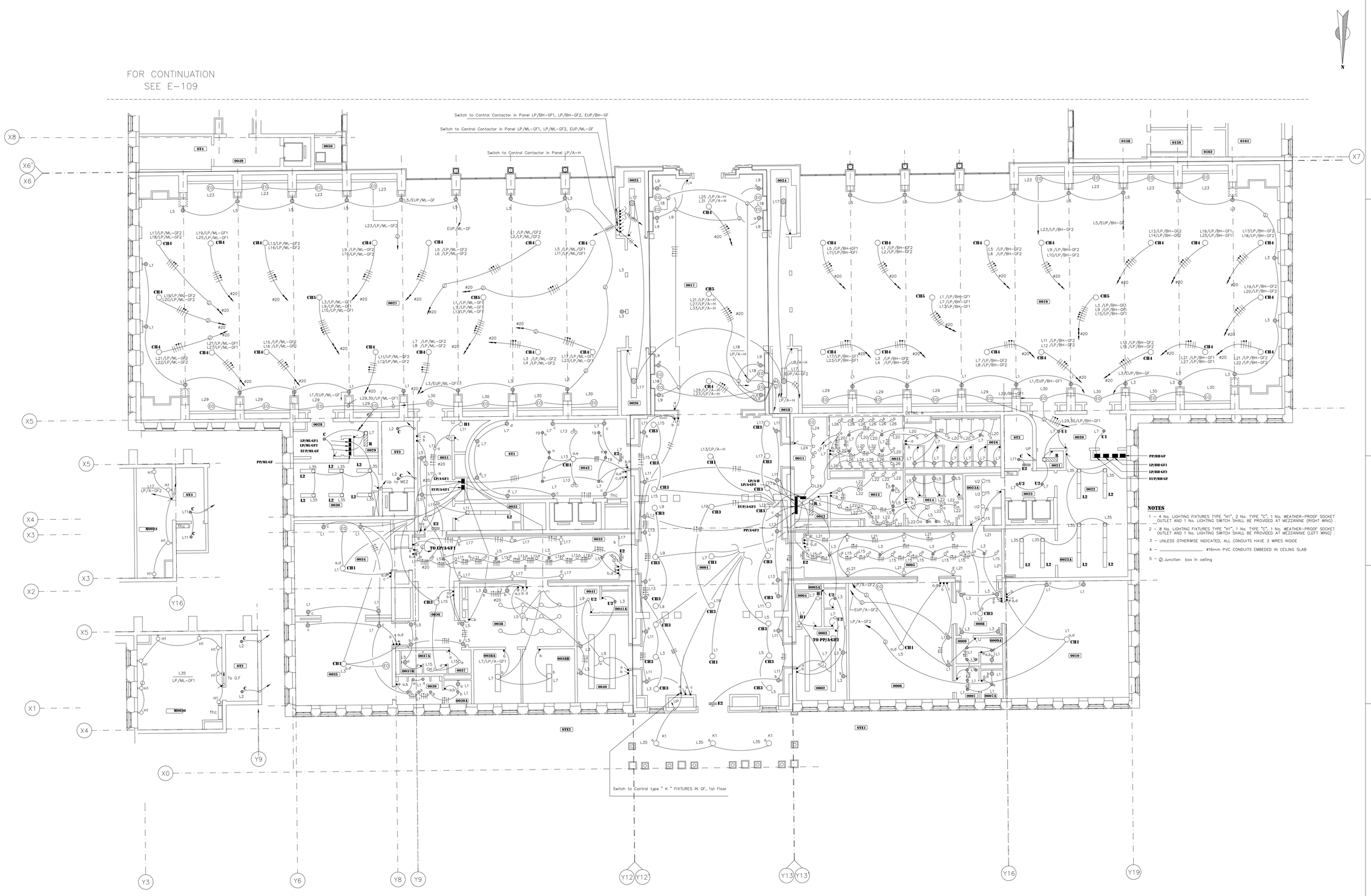
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Basement Floor Zone C Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-107-A1	00



NOTES

1 – 4 No. LIGHTING FIXTURES TYPE "H1", 2 No. TYPE "C", 1 No. WEATHER-PROOF SOCKET OUTLET AND 1 No. LIGHTING SWITCH SHALL BE PROVIDED AT MEZZANINE (RIGHT WING) .

2 – 8 No. LIGHTING FIXTURES TYPE "H1", 1 No. TYPE "C", 1 No. WEATHER-PROOF SOCKET OUTLET AND 1 No. LIGHTING SWITCH SHALL BE PROVIDED AT MEZZANINE (LEFT WING) .

3 – UNLESS OTHERWISE INDICATED, ALL CONDUITS HAVE 3 WIRES INSIDE

4 – ———————— ø16mm PVC CONDUITS EMBEDED IN CEILING SLAB

5 – Ⓙ Junction box in ceiling

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

ACHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726084 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

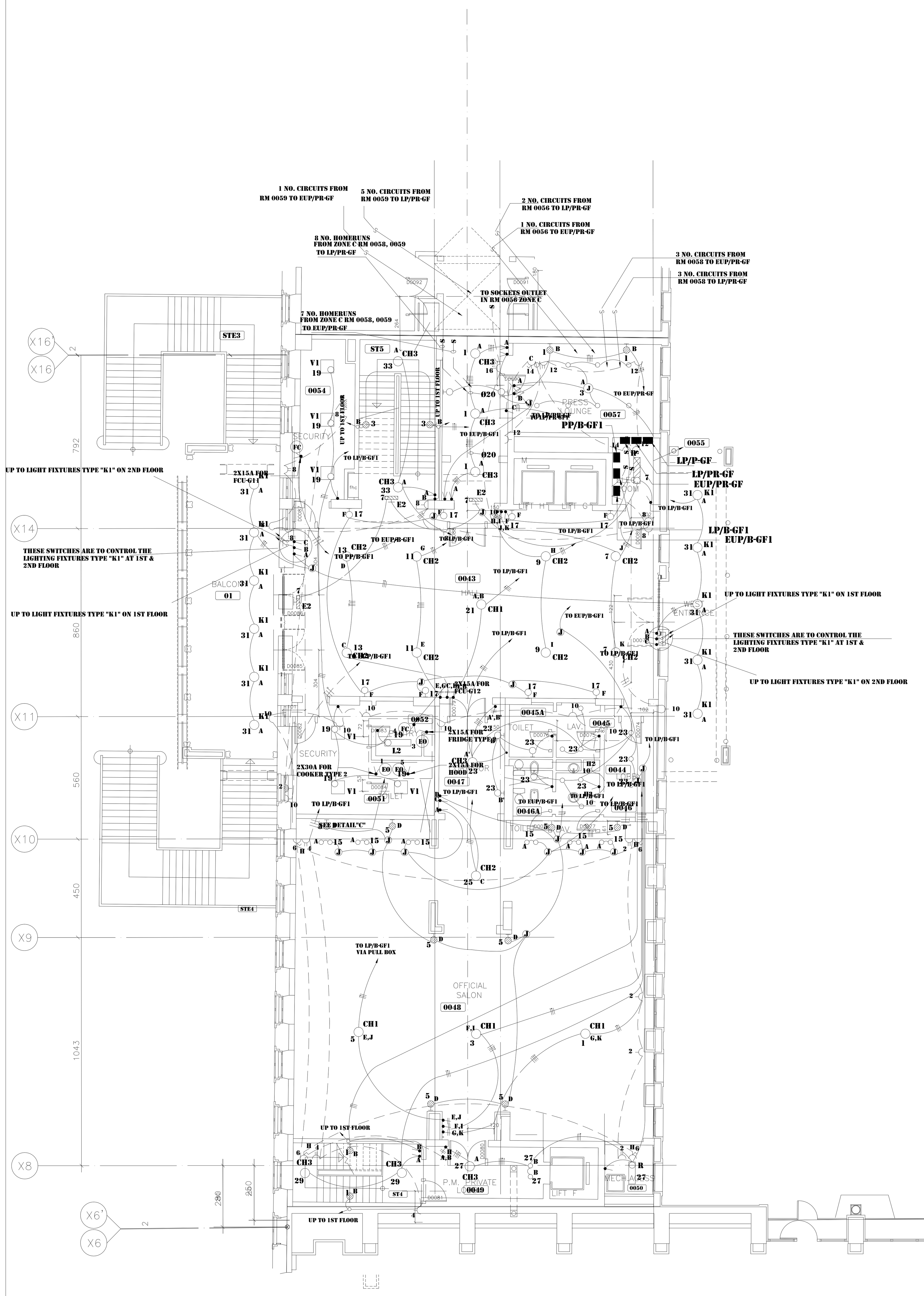
CHECKED BY :BS

APPROVED BY :AC

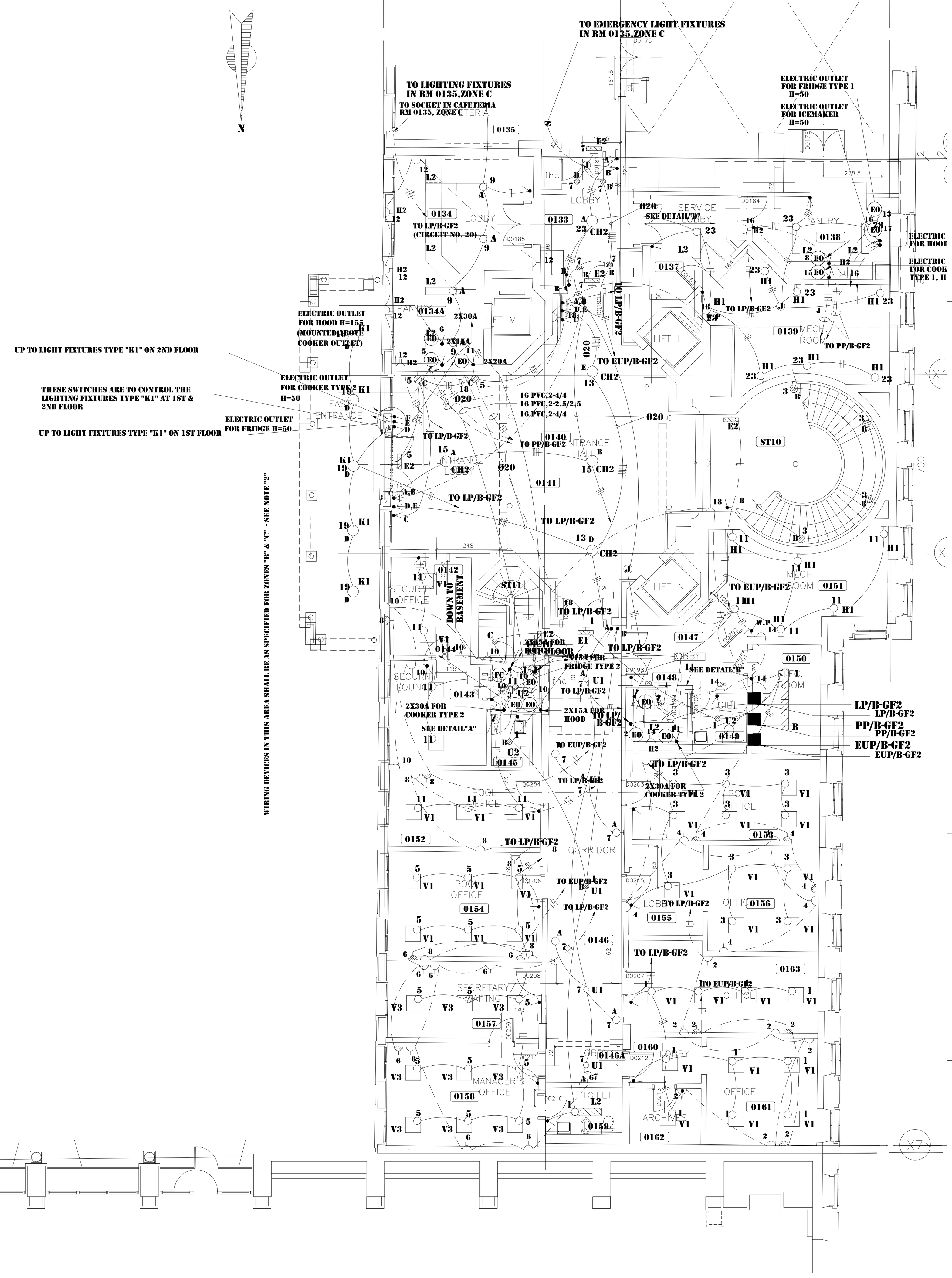
SHEET TITLE

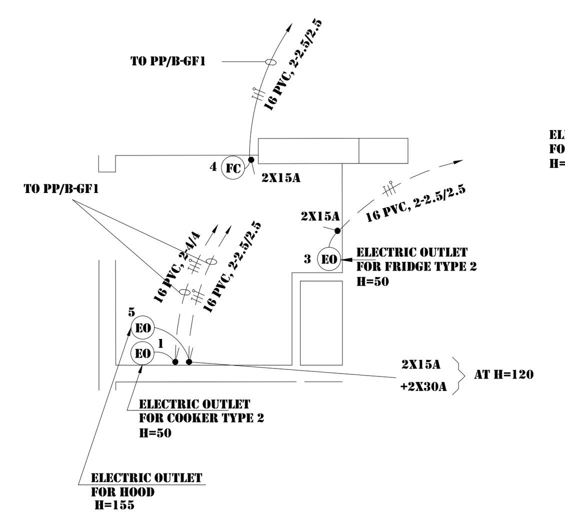
Ground Floor Zone A Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-108-A1	00

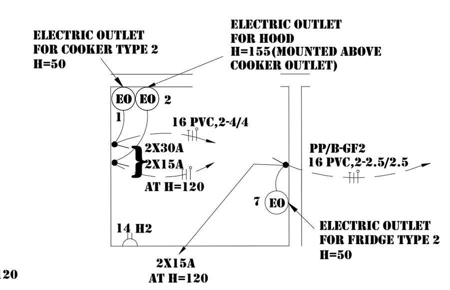


FOR CNTINUATION REFER TO DWG E-108
FOR CONTINUATION REFER TO DWG E-110





DETAIL"C"



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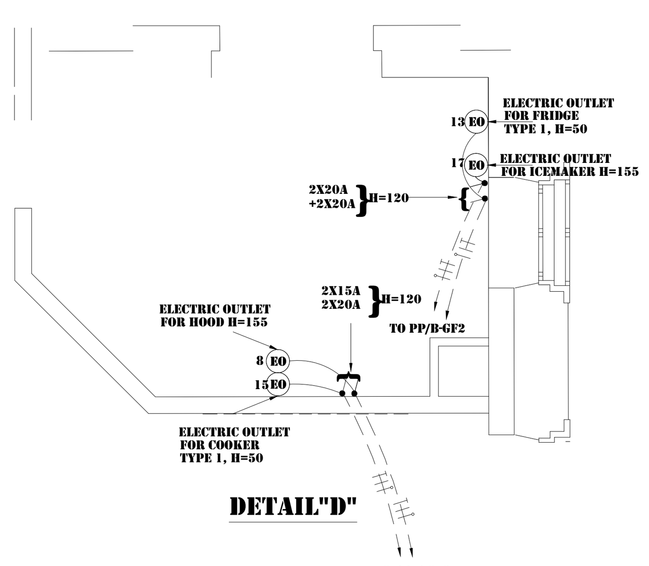

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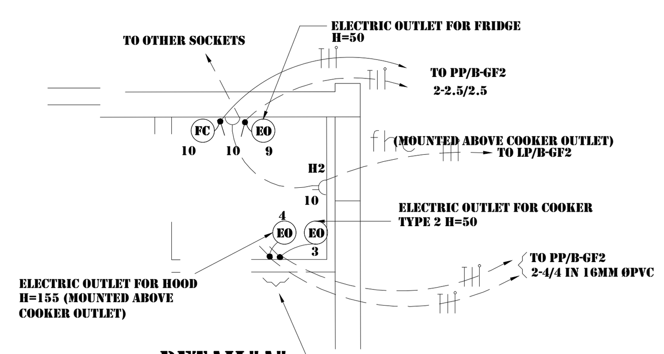


DETAIL"A"

NOTES

1 - FOR DESCRIPTION OF LIGHTING FIXTURES, GRAPHICAL SYMBOLS AND GENERAL NOTES REFER TO ELECTRICAL LEGEND
2 - UNLESS OTHERWISE INDICATED ON THIS DRAWING AND WHERE AREAS LIT BY FLUORESCENT LUMINAIRES ALL WIRING DEVICES SHALL BE AS SPECIFIED FOR ZONE "A" .
3 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS FOR LIGHTING ARE 2.5MM2 IN 16MM Ø PVC CDT.
4 - ALL CONDUITS HAVE 3 WIRES,UNLESS OTHERWISE INDICATED
5 - WIRES IDENTIFICATION WHERE: = EARTH, = NEUTRAL, = PHASE, = R PHASE
6 - PULL BOX
7 - CONDUIT GOING UP
8 - CONDUIT GOING DOWN
9 - CONDUIT EMBEDDED IN FLOOR SLAB
10 - CONDUIT EMBEDDED IN CEILING SLAB

SCALE: 0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

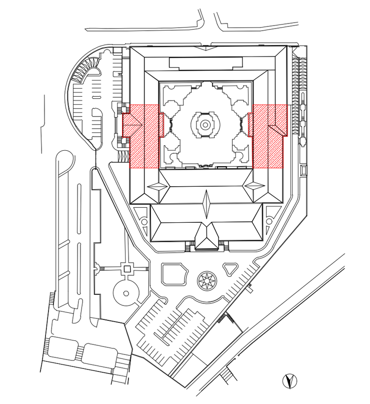
PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:



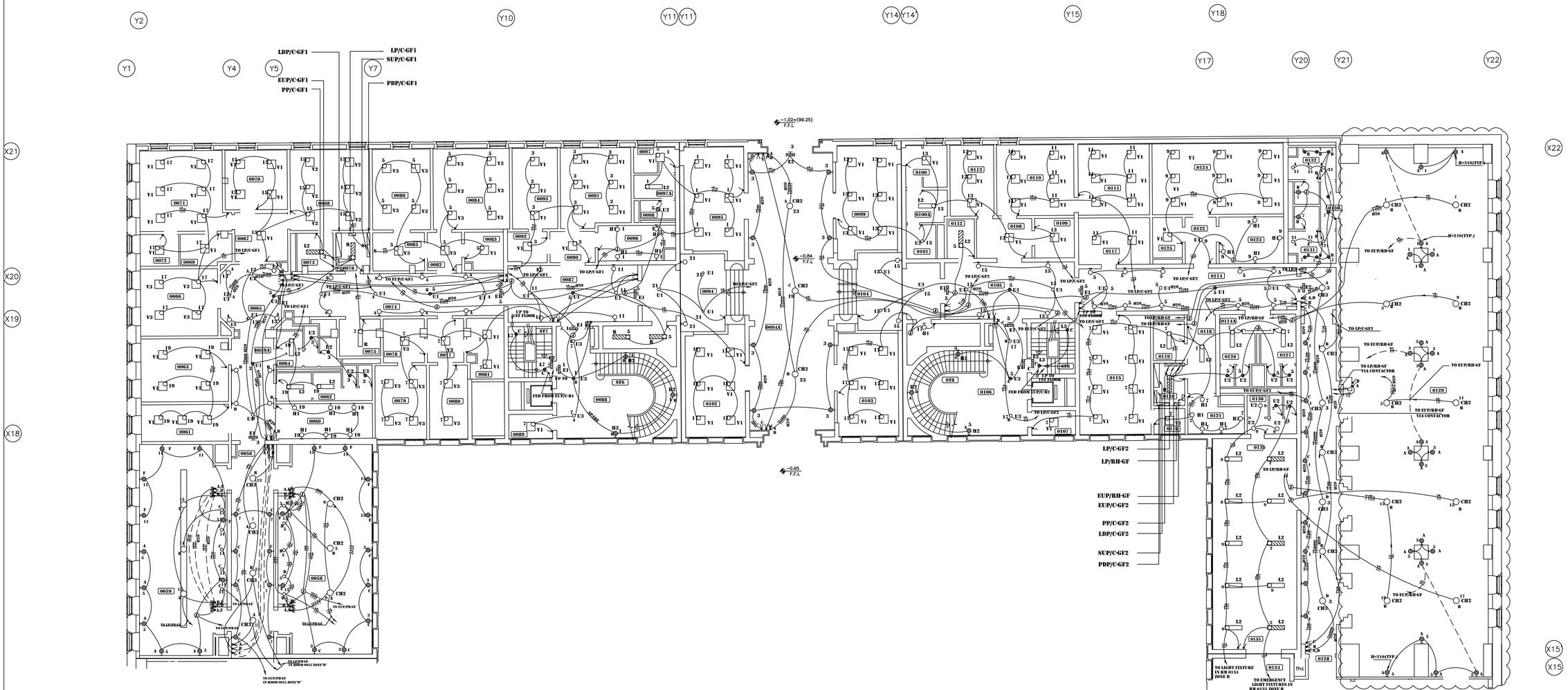
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE

Ground Floor Zone B Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-109-A1	00



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16M Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
= PHASE .
= NEUTRAL .
= R, PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX .

FOR CONTINUATION, SEE DWG E-109

1-Supply, install the chandelliers and wall mounted lighting fixtures in the reception hall

2-Supply, install the Spot lights in suspended tray fixture reception hall

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

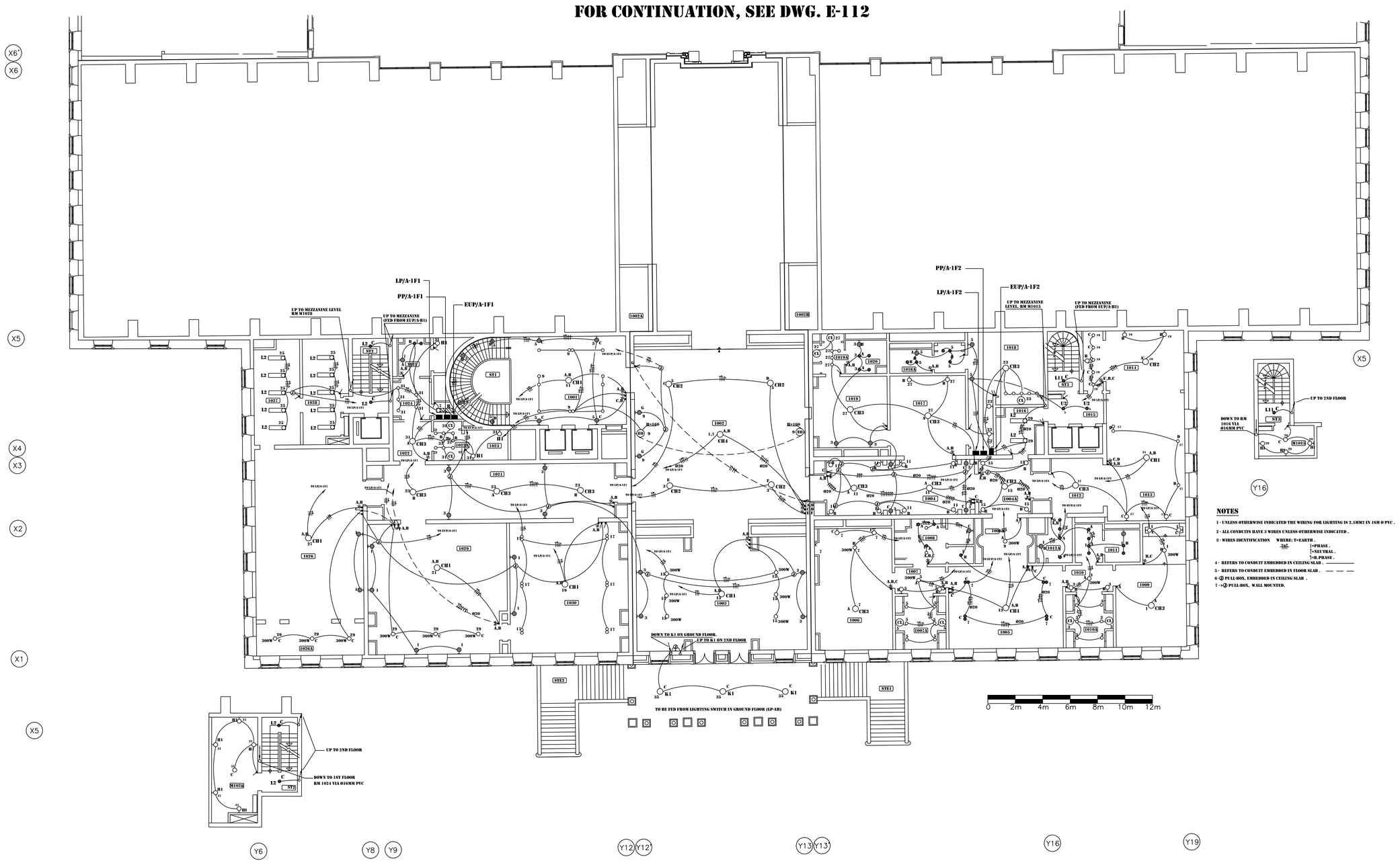
SHEET TITLE

Ground Floor Zone C
Lighting Layout

SHEET NO.
L1202-CD-E-110-A1

Revision NO.
00

FOR CONTINUATION, SEE DWG. E-112



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16M Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
+=PHASE .
-=NEUTRAL .
+=R.PHASE .

4 - REFERS TO CONDUCT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUCT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

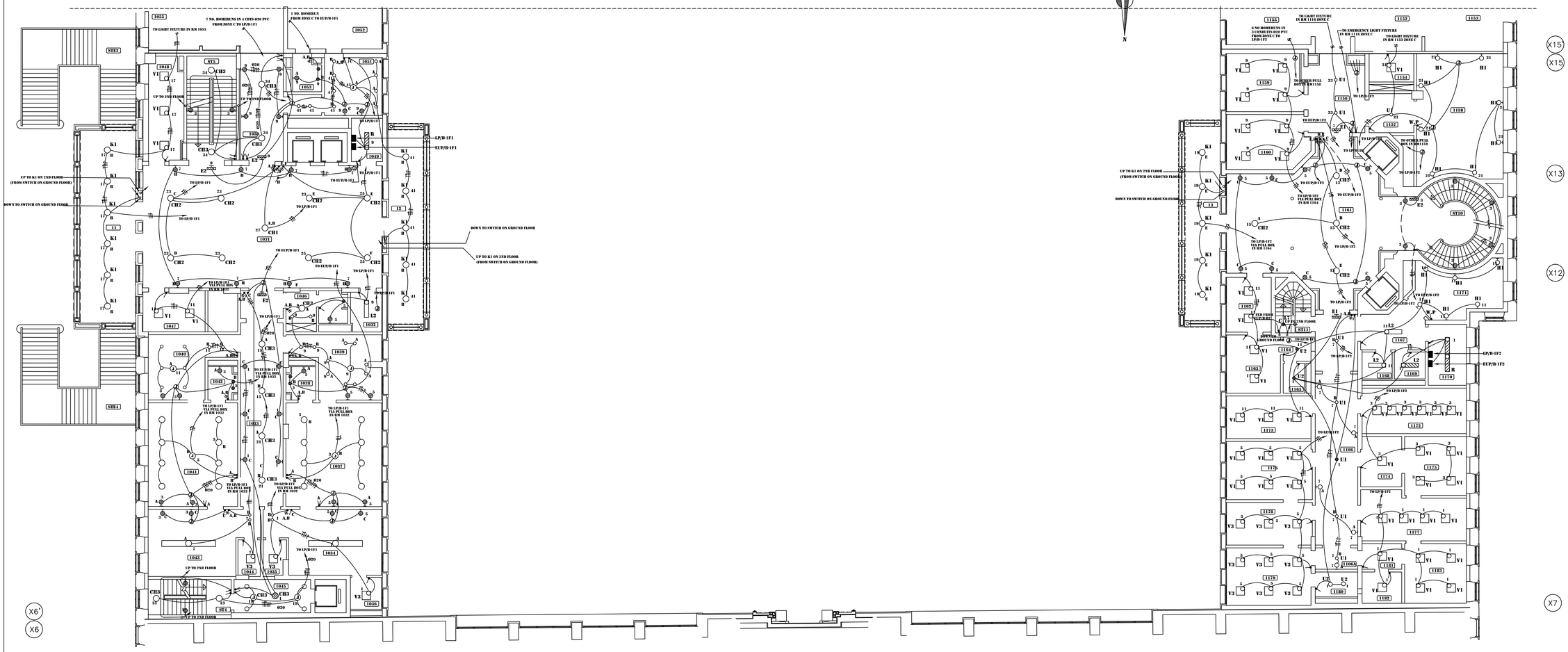
SHEET TITLE

First Floor Zone A Lighting Layout

SHEET NO. L1202-CD-E-111-A1

Revision NO. 00

FOR CONTINUATION
SEE E-113



FOR CONTINUATION
SEE E-111

NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16M Ø PVC .

2 - ALL CONDUITS HAVE 2 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: Y=EARTH ,
| =PHASE ,
| =NEUTRAL ,
| =R.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - Ⓟ PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

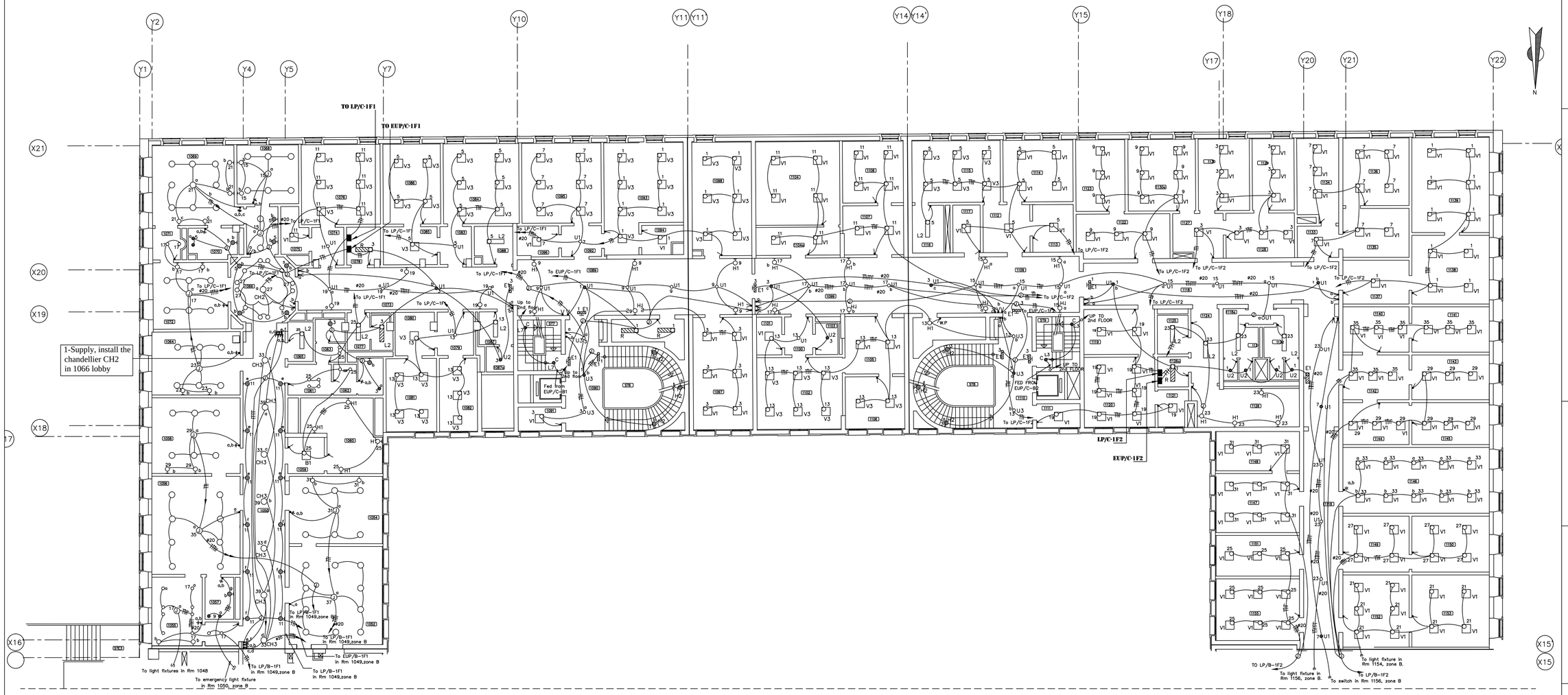
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

First Floor Zone B
Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-112-A1	00



FOR CONTINUATION, SEE DWG. E-112

NOTES

1 – FOR DESCRIPTION OF LIGHTING FIXTURES, GRAPHICAL SYMBOLS AND GENERAL NOTES REFER TO DWG. No. 01 OZ Z 450 01 101 .

2 – UNLESS OTHERWISE INDICATED ON THIS DRAWING AND WHERE AREAS LIT BY FLUORESCENT LUMINAIRES ALL WIRING DEVICES SHALL BE AS SPECIFIED FOR ZONE "A" .

3 – UNLESS OTHERWISE INDICATED, ALL HOMERUNS FOR LIGHTING ARE 2.5mm2 IN 16mm ø PVC Cdt.

4 – ALL CONDUITS HAVE 3 WIRES,UNLESS OTHERWISE INDICATED

5 – WIRES IDENTIFICATION —⊤⊤— WHERE: ⊤ = EARTH
⊤ = NEUTRAL
⊤ = PHASE
⊤ = R PHASE

6 – FOR PANELBOARD SCHEDULES,REFER TO DWG No: 450-01-118 & 119

7 – PULL BOX

8 – CONDUIT GOING UP

9 – CONDUIT GOING DOWN

10 – CONDUIT EMBEDDED IN FLOOR SLAB

11 – CONDUIT EMBEDDED IN CEILING SLAB

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: infoAR.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

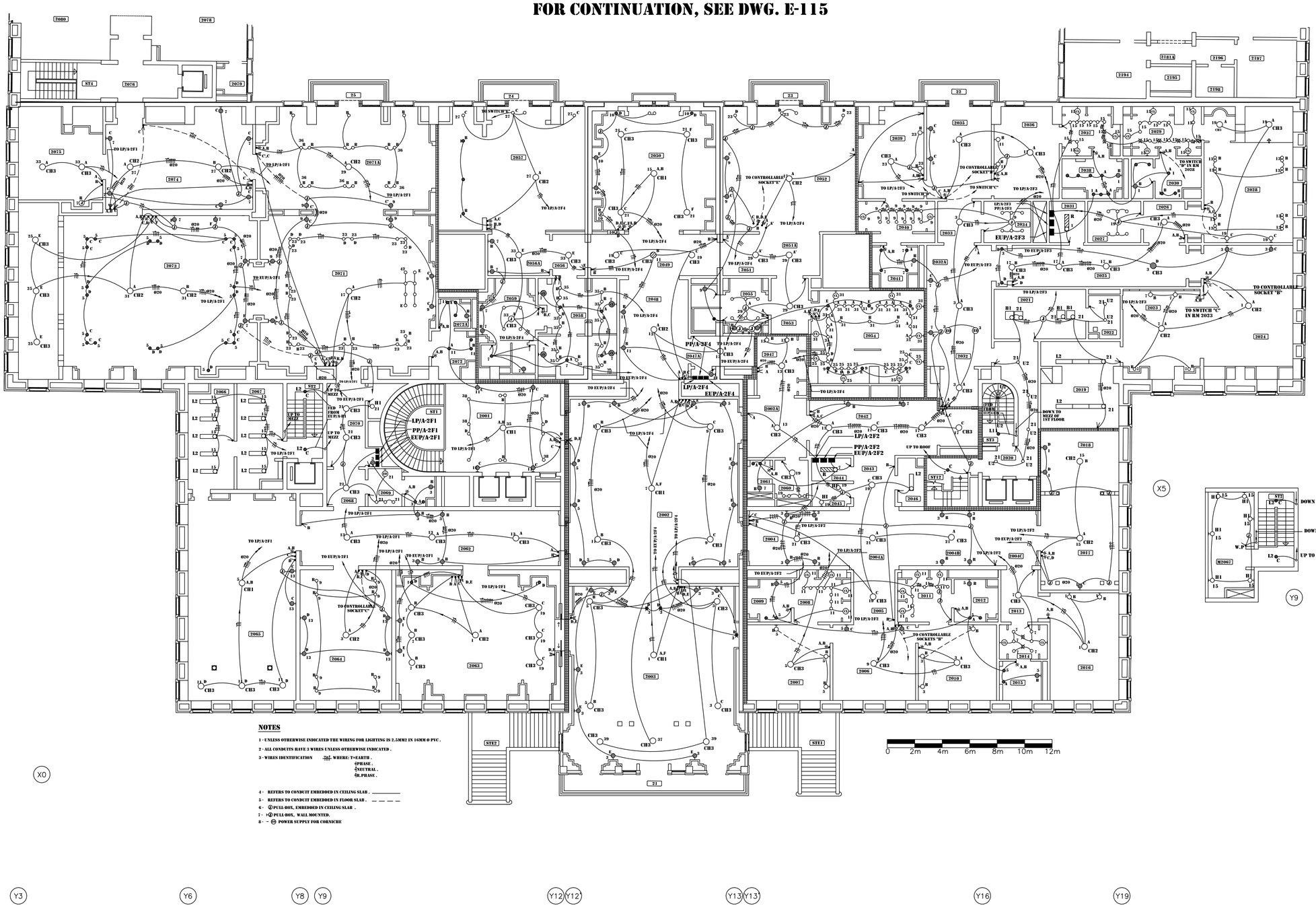
SHEET TITLE

First Floor Zone C Lighting Layout

SHEET NO. L1202-CD-E-113-A1

Revision NO. 00

FOR CONTINUATION, SEE DWG. E-115



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16MM Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
P=PHASE .
N=NEUTRAL .
OL.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

8 - POWER SUPPLY FOR CORNICHE

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

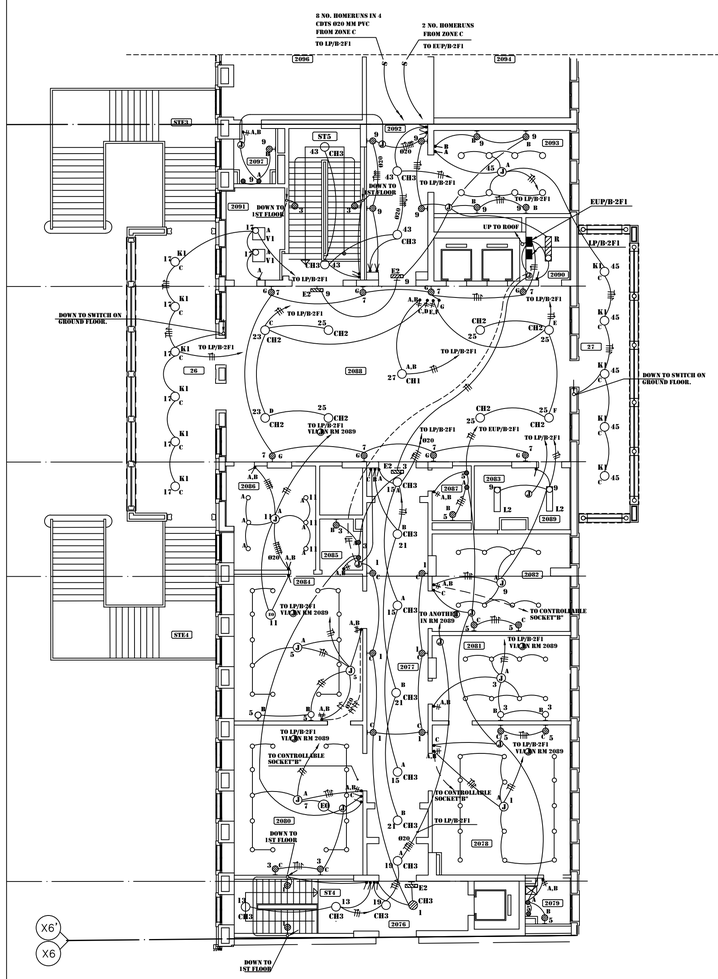
CHECKED BY :BS

APPROVED BY :AC

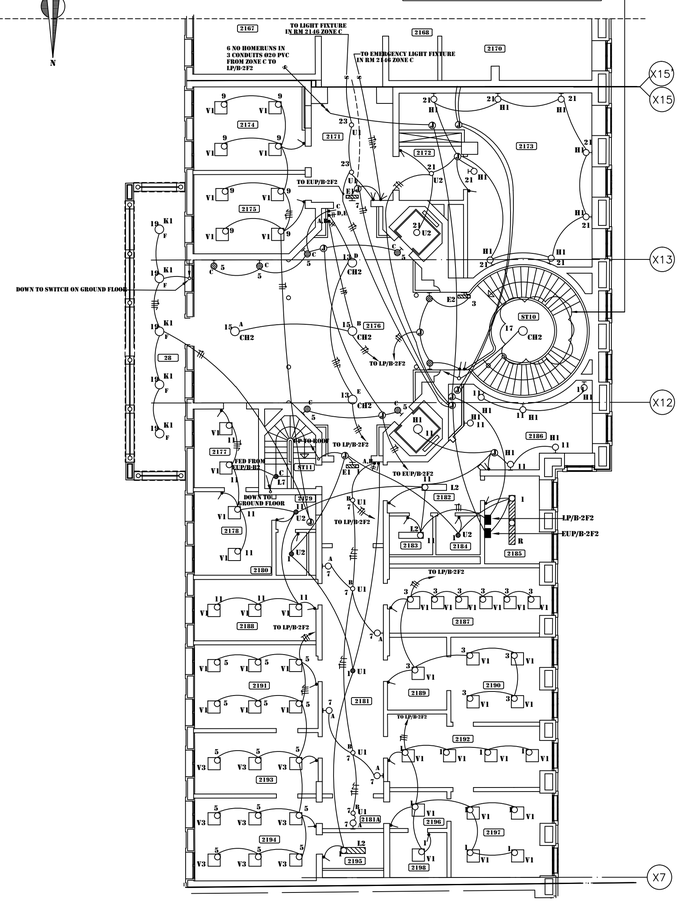
SHEET TITLE
Second Floor Zone A
Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-114-A1	00

FOR CONTINUATION
SEE DWG E–115



1-Supply, install the chandellier CH2 in stairs ST10



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16M Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
①PHASE .
②NEUTRAL .
③L.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

8 - EO POWER SUPPLY FOR CORNICHE

FOR CONTINUATION
SEE DWG E–113

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

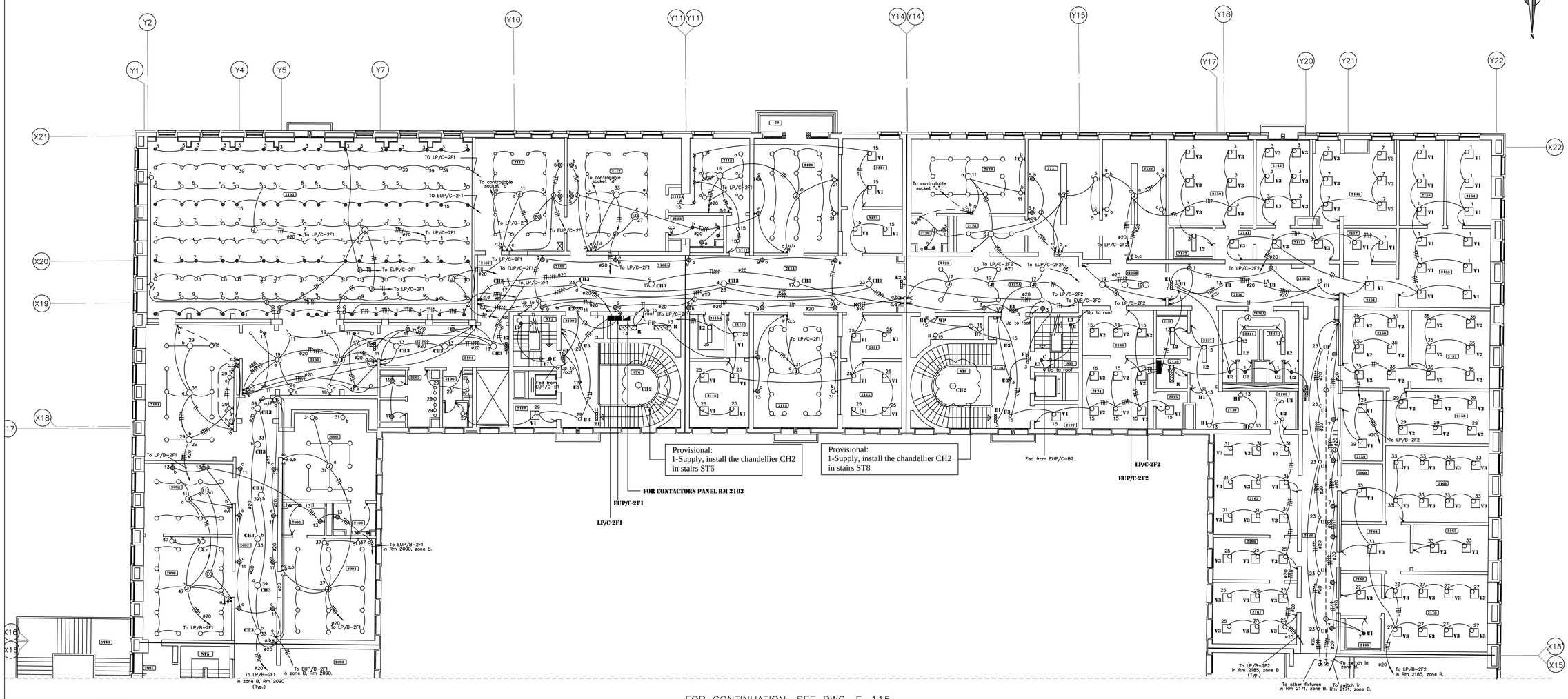
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Second Floor Zone B Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-114-A1	00



FOR CONTINUATION, SEE DWG. E-115

NOTES

1 - UNLESS OTHERWISE INDICATED ON THIS DRAWING AND WHERE AREAS LIT BY FLUORESCENT LUMINAIRES ALL WIRING DEVICES SHALL BE AS SPECIFIED FOR ZONE "A" .

2 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS FOR LIGHTING ARE 2.5mm2 IN 16mm ø PVC Cdt.

3 - ALL CONDUITS HAVE 3 WIRES,UNLESS OTHERWISE INDICATED

4 - WIRES IDENTIFICATION — TP — WHERE: T = EARTH
N = NEUTRAL
L = PHASE
R = R PHASE

5 - PULL BOX

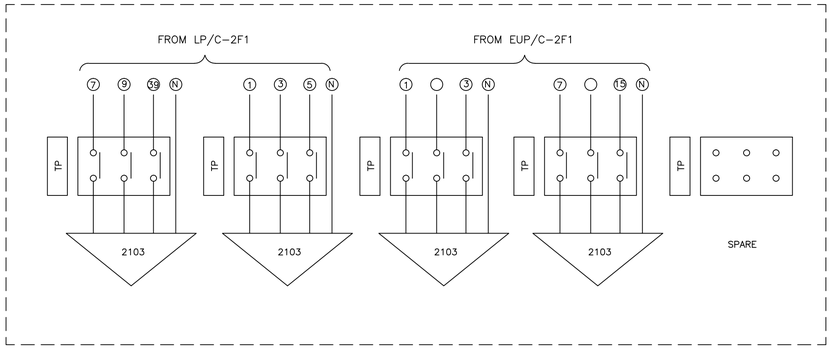
6 - CONDUIT GOING UP

7 - CONDUIT GOING DOWN

8- CONDUIT EMBEDDED IN FLOOR SLAB

9 - CONDUIT EMBEDDED IN CEILING SLAB

10 - POWER SUPPLY FOR CORNICHE



CONTACTORS PANEL FOR RM 2103

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

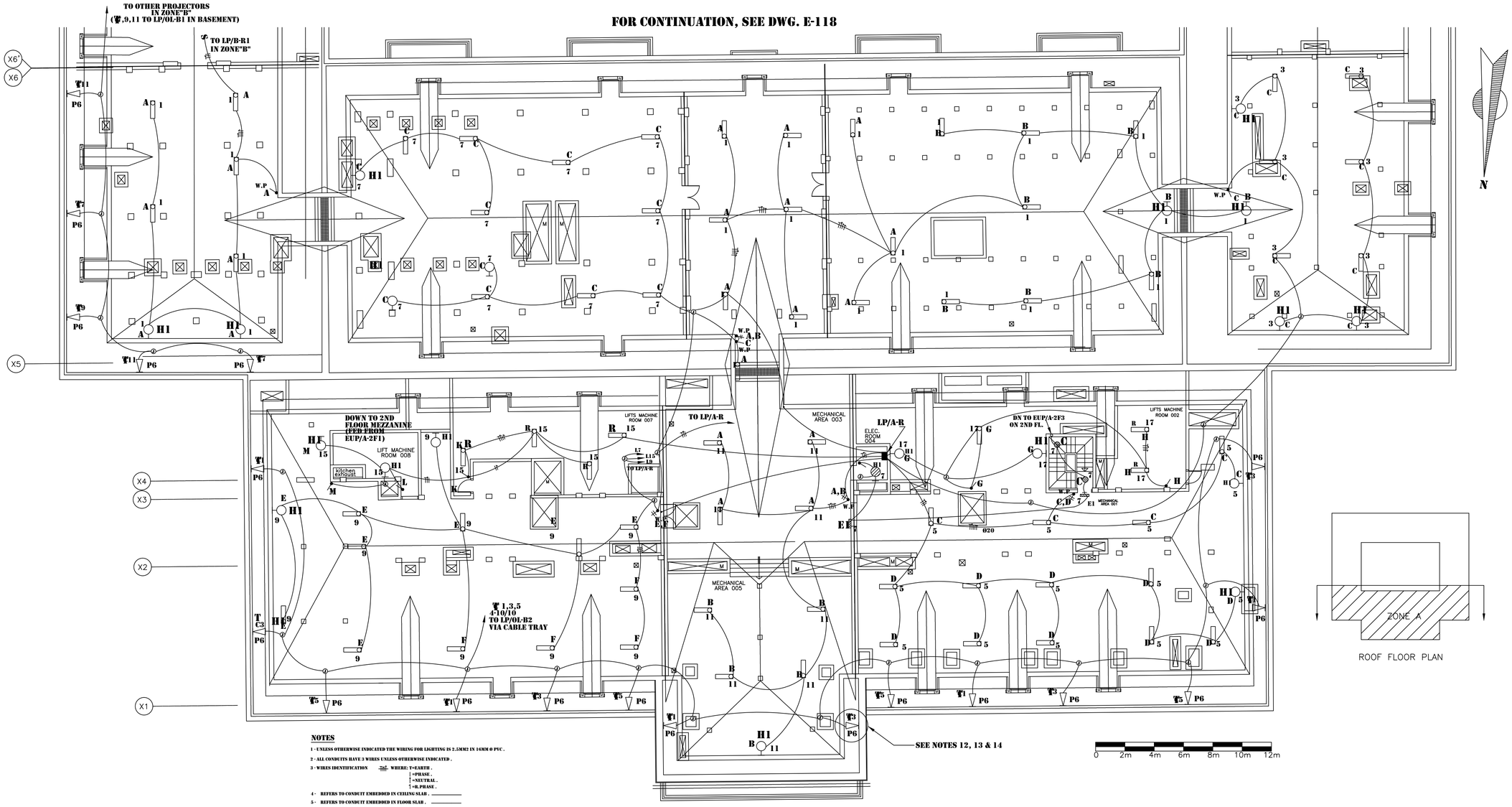
APPROVED BY :AC

SHEET TITLE

Second Floor Zone C Lighting Layout

SHEET NO. L1202-CD-E-116-A1

Revision NO. 00



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16MM Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
=PHASE .
=NEUTRAL .
=R.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

8 - UNLESS OTHERWISE INDICATED, ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING SHALL BE TYPE "G2".

9 - ALL LIGHTING FIXTURES TYPE "G2" SHALL BE PROVIDED WITH SUSPENSION CHAINS.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

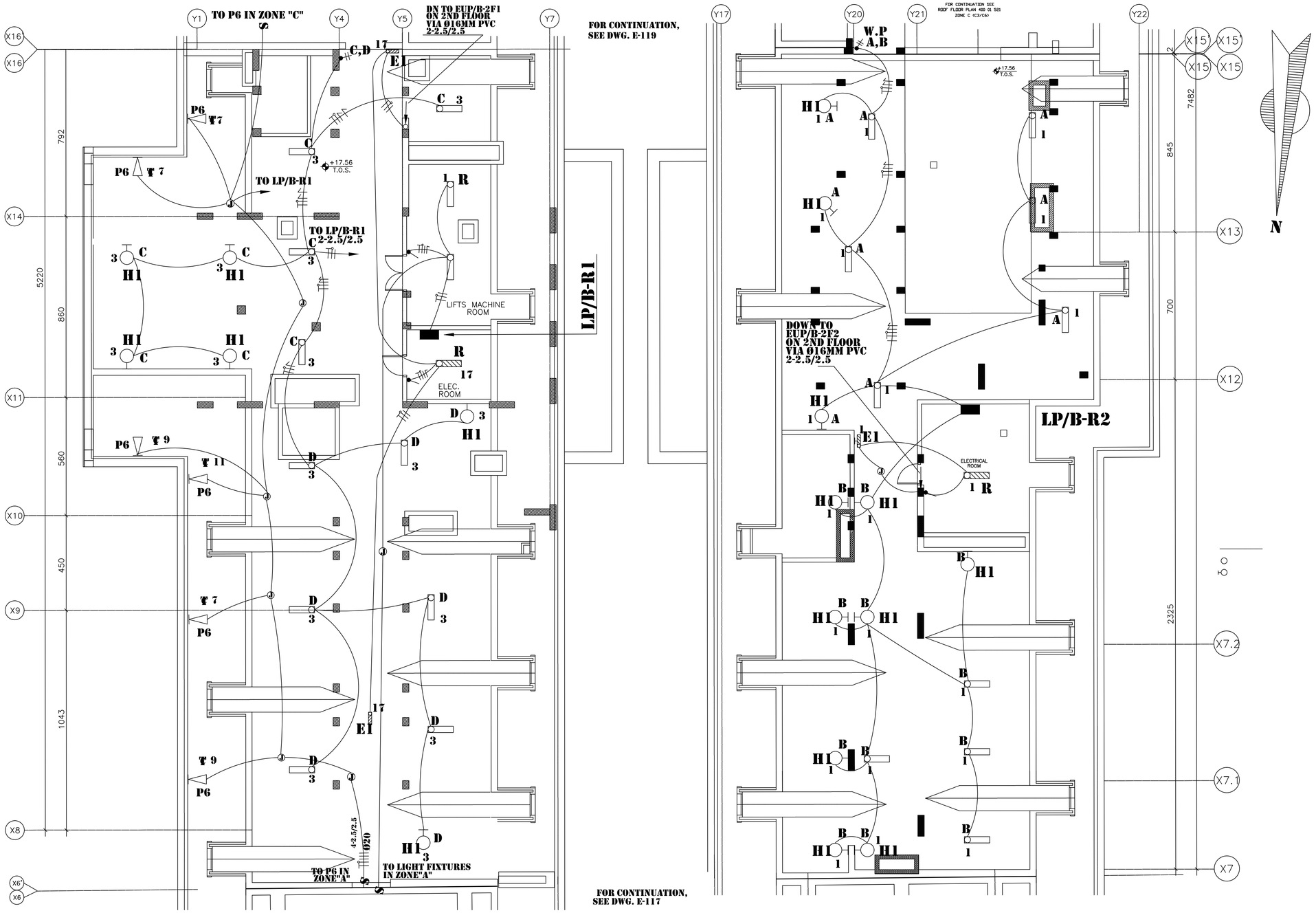
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Roof Floor Zone A
Lighting Layout

SHEET NO.	Revision NO.
L1202-CD-E-117-A1	00



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16MM Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
=PHASE .
=NEUTRAL .
=R.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

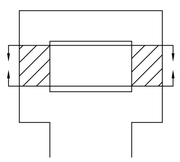
5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

8 - UNLESS OTHERWISE INDICATED, ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING SHALL BE TYPE "G2".

9 - ALL LIGHTING FIXTURES TYPE "G2" SHALL BE PROVIDED WITH SUSPENSION CHAINS.



0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHA architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

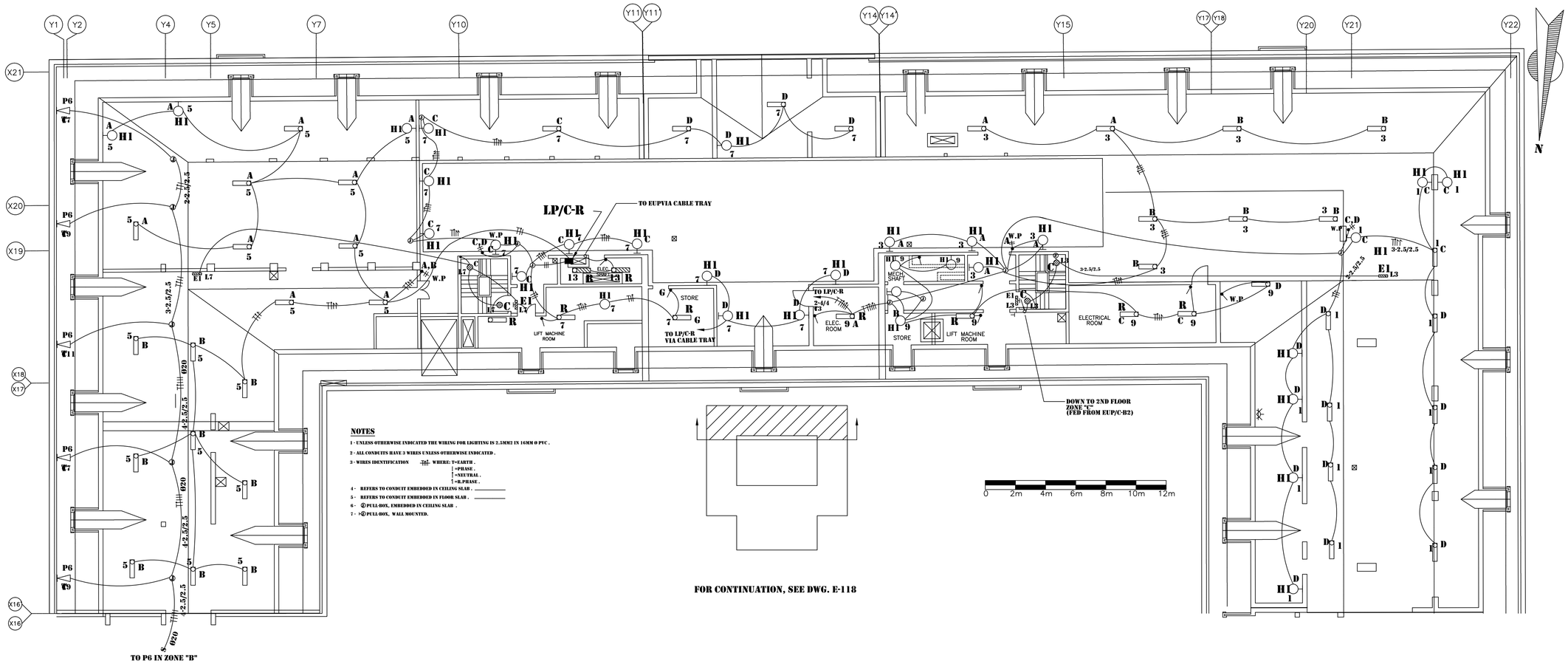
APPROVED BY :AC

SHEET TITLE

Roof Floor Zone B Lighting Layout

SHEET NO. L1202-CD-E-118-A1

Revision NO. 00



NOTES

1 - UNLESS OTHERWISE INDICATED THE WIRING FOR LIGHTING IS 2.5MM2 IN 16MM Ø PVC .

2 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED .

3 - WIRES IDENTIFICATION WHERE: T=EARTH .
N=PHASE .
N=NEUTRAL .
N=R.PHASE .

4 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB .

5 - REFERS TO CONDUIT EMBEDDED IN FLOOR SLAB .

6 - PULL-BOX, EMBEDDED IN CEILING SLAB .

7 - PULL-BOX, WALL MOUNTED.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

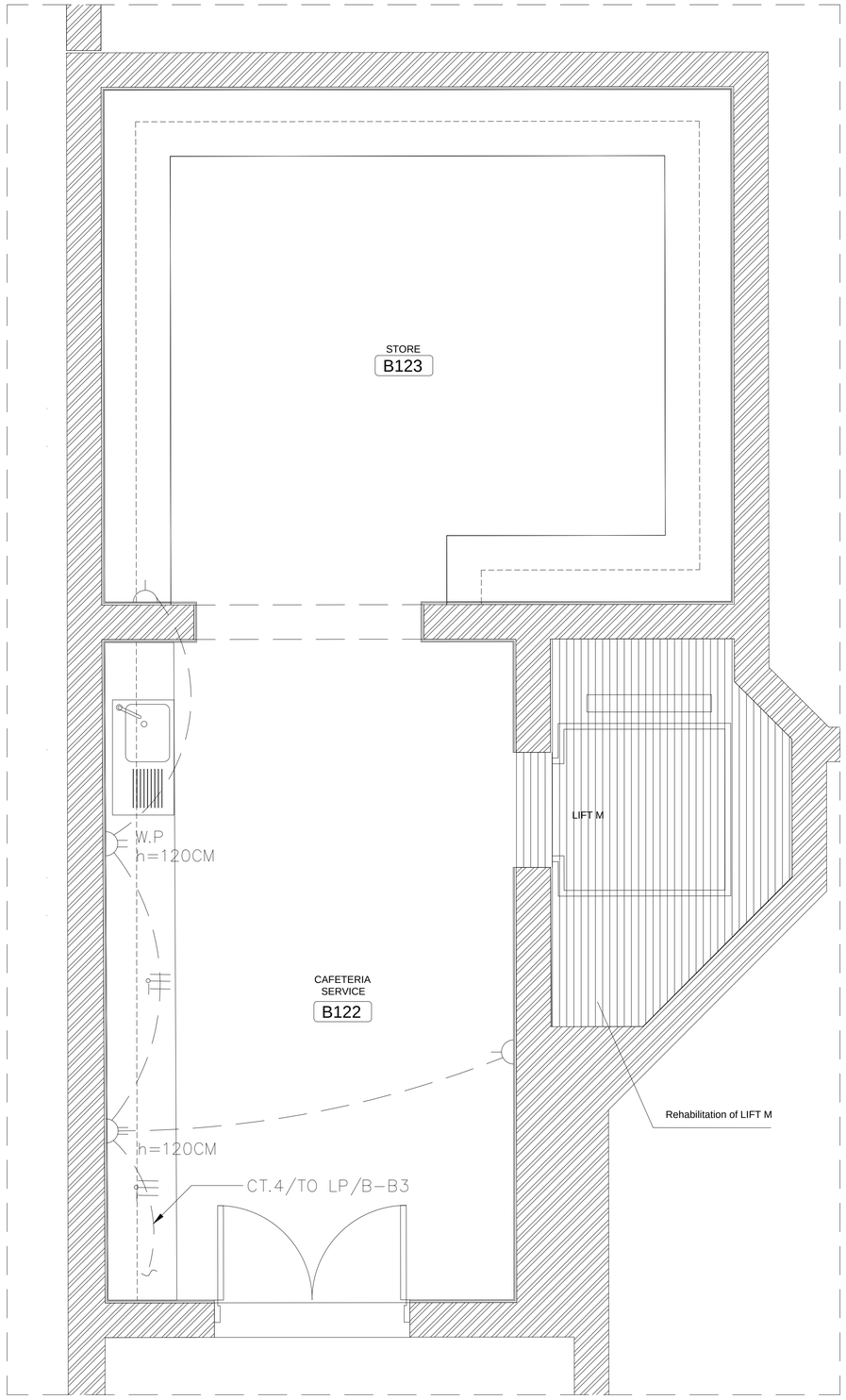
APPROVED BY :AC

SHEET TITLE

Roof Floor Zone C
Lighting Layout

SHEET NO. L1202-CD-E-119-A1

Revision NO. 00



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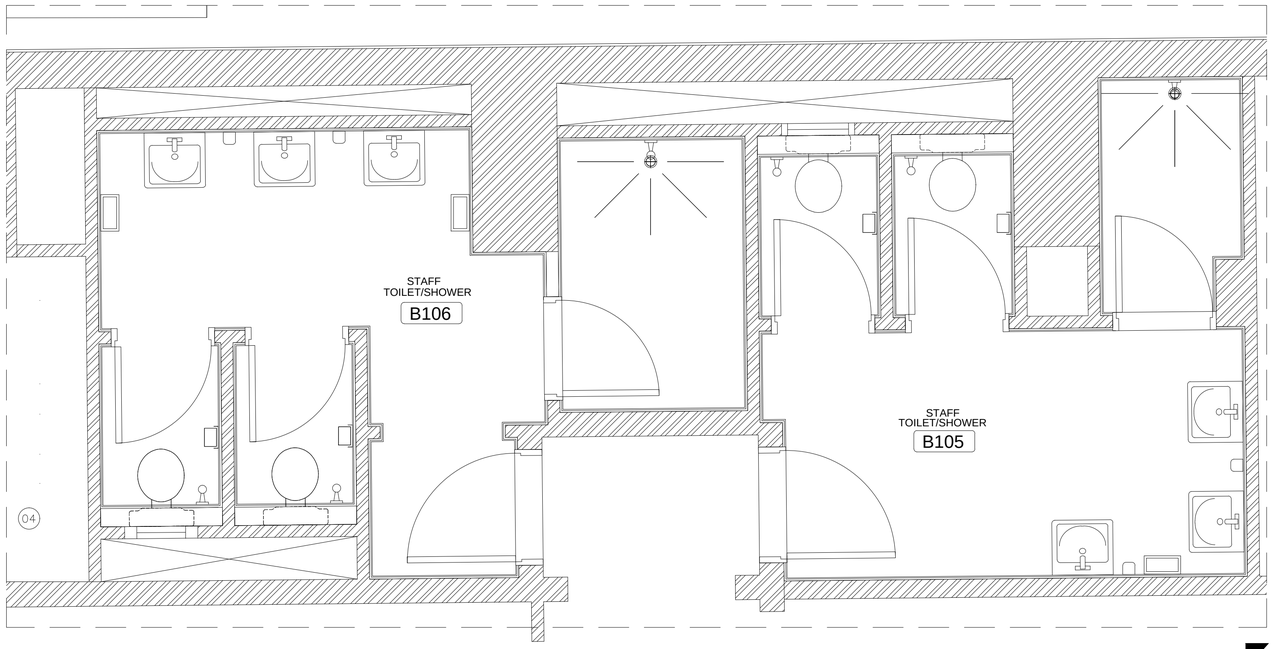

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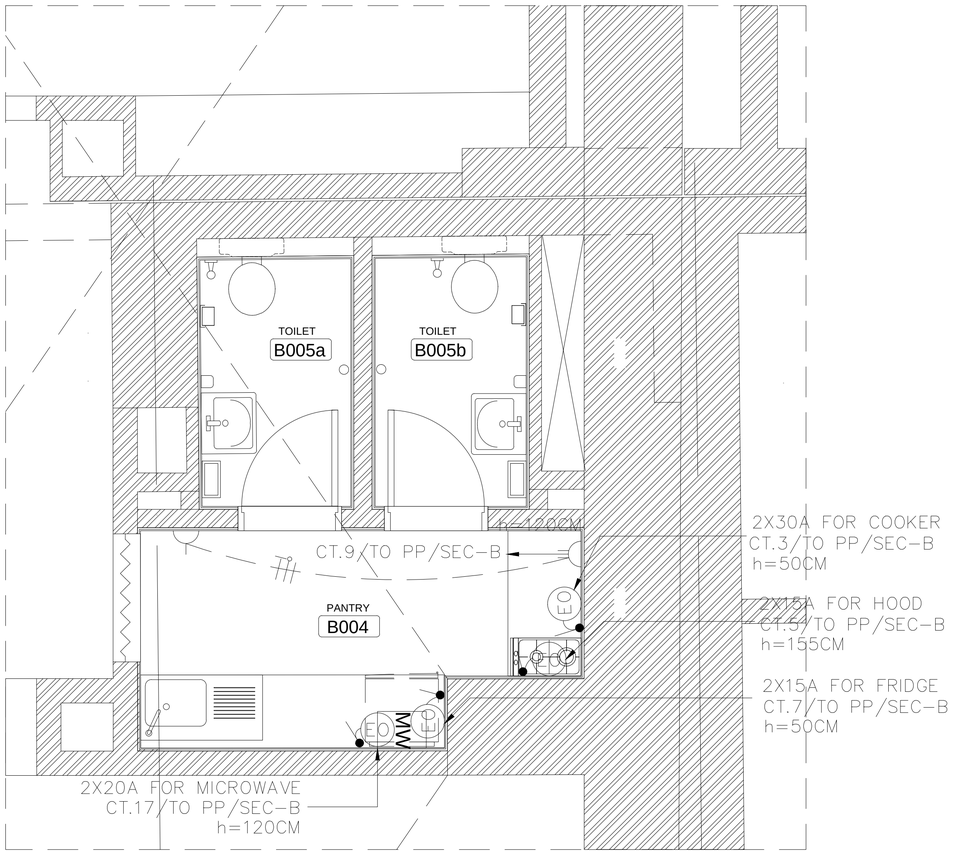


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

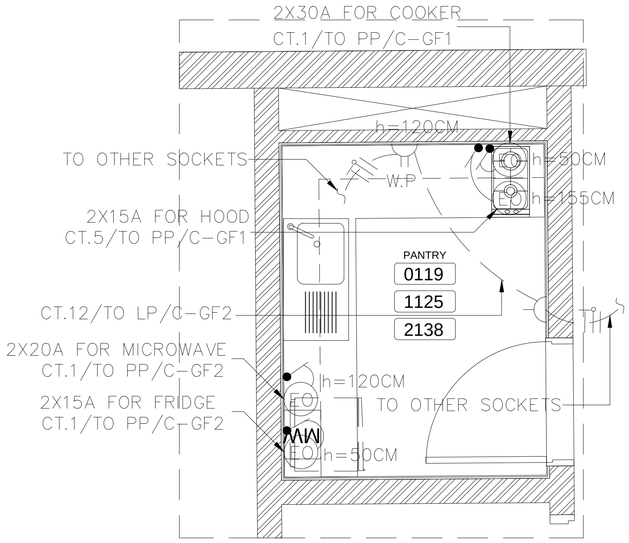
SCALE
1/25

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Wet Areas Power Layout

SHEET NO.
L1202-CD-E-200-A1

Revision NO.
00



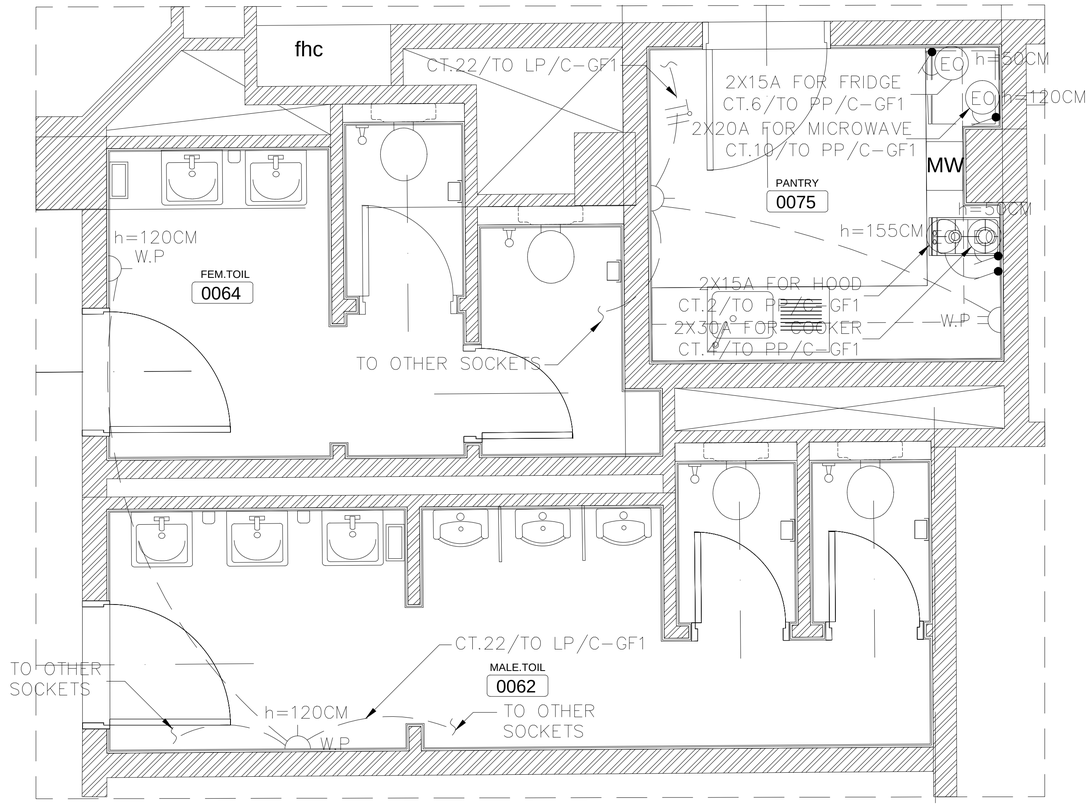
Room 1125-FIRST FLOOR

FRIDGE: CT.34/TO LP/C-1F2
COOKER: CT.30/TO LP/C-1F2
HOOD: CT.32/TO LP/C-1F2
MICROWAVE: CT.33/TO LP/C-1F2
SOCKETS: CT.18/TO LP/C-1F2

Room 2138-SECOND FLOOR

FRIDGE: CT.28/TO LP/C-2F2
COOKER: CT.24/TO LP/C-2F2
HOOD: CT.26/TO LP/C-2F2
MICROWAVE: CT.32/TO LP/C-2F2
SOCKETS: CT.16/TO LP/C-2F2

5



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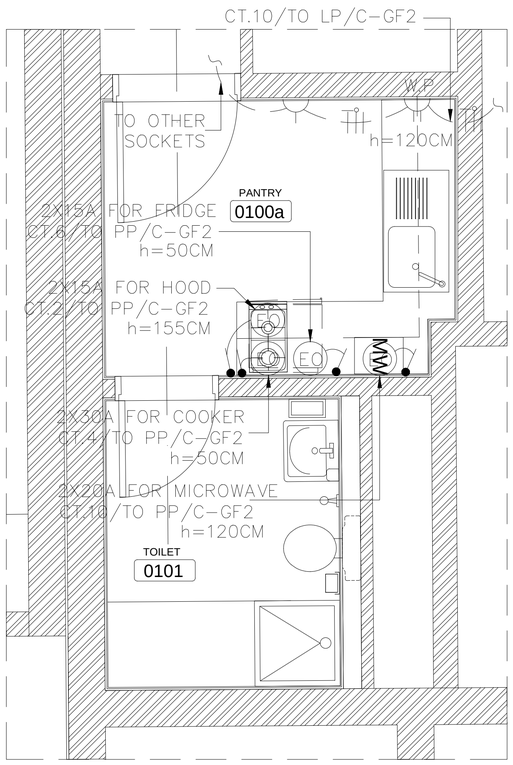

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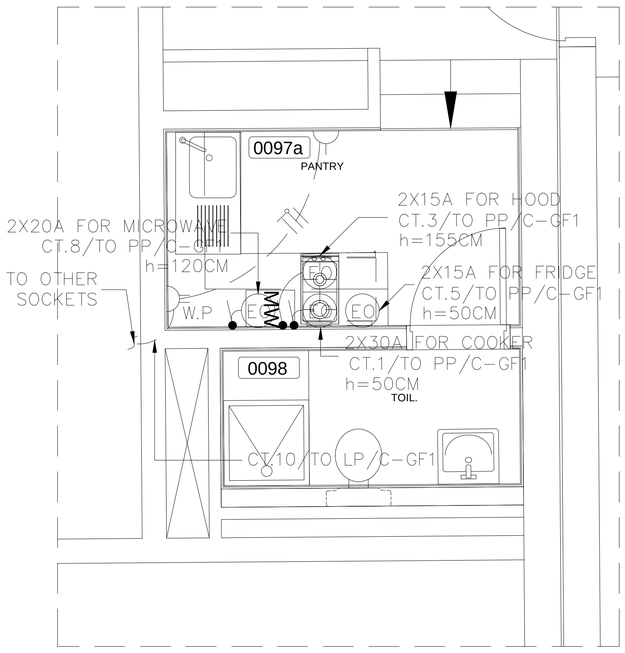
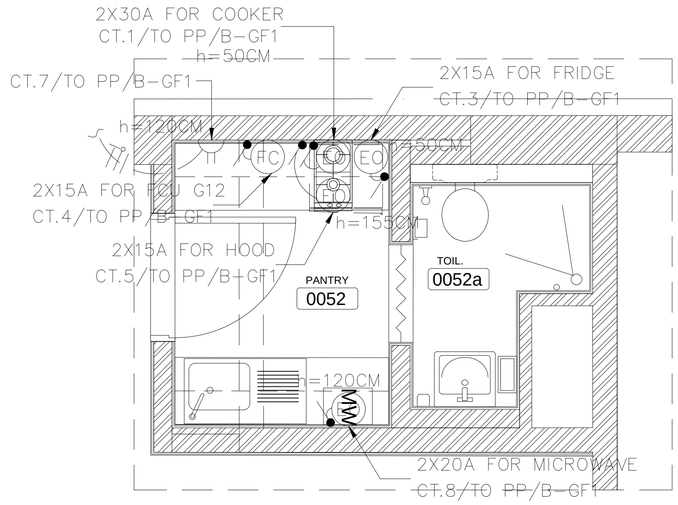


3



1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

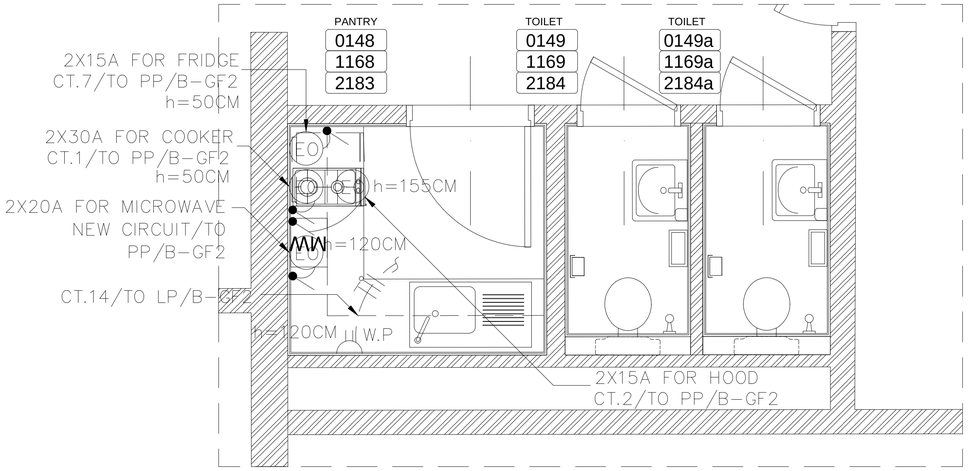
SCALE: 1/25

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Wet Areas Power Layout (1/2)

SHEET NO. L1202-CD-E-201-A1

Revision NO. 00



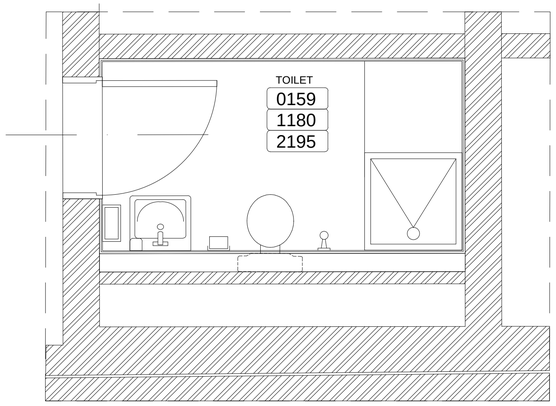
Room 1168-FIRST FLOOR

FRIDGE: CT.38/TO LP/B-1F2
COOKER: CT.42/TO LP/B-1F2
HOOD: CT.42/TO LP/B-1F2
MICROWAVE: CT.43/TO LP/B-1F2
SOCKETS: CT.12/TO LP/B-1F2

Room 2183-SECOND FLOOR

FRIDGE: CT.32/TO LP/B-2F2
COOKER: CT.36/TO LP/B-2F2
HOOD: CT.34/TO LP/B-2F2
MICROWAVE: CT.41/TO LP/B-2F2
SOCKETS: CT.12/TO LP/B-2F2

3



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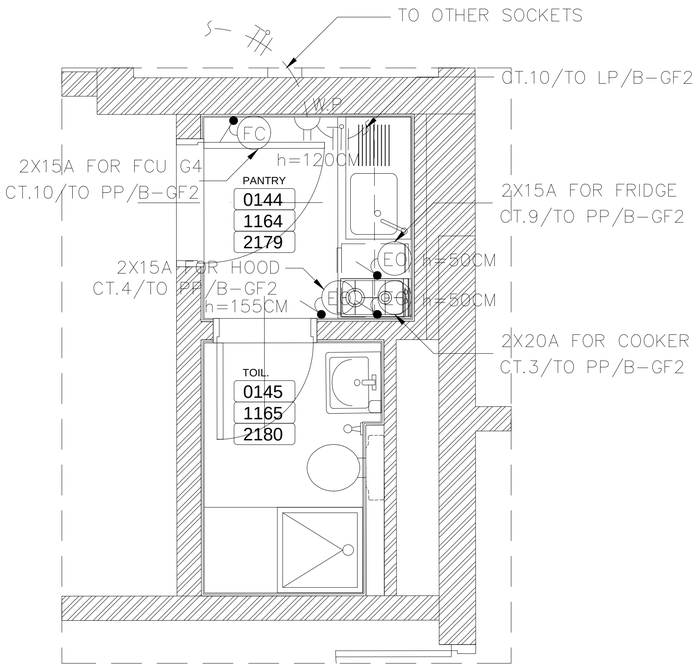


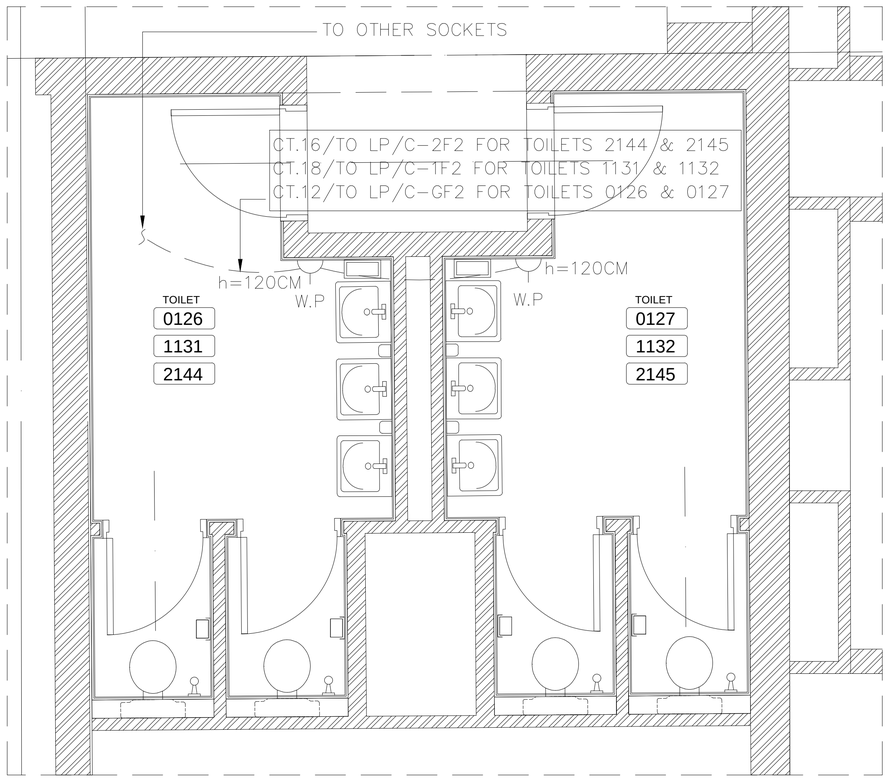
Room 1164-FIRST FLOOR

FRIDGE: CT.36/TO LP/B-1F2
COOKER: CT.40/TO LP/B-1F2
HOOD: CT.40/TO LP/B-1F2
MICROWAVE: CT.41/TO LP/B-1F2
SOCKETS: CT.10/TO LP/B-1F2

Room 2179-SECOND FLOOR

FRIDGE: CT.38/TO LP/B-2F2
COOKER: CT.40/TO LP/B-2F2
HOOD: CT.42/TO LP/B-2F2
MICROWAVE: CT.44/TO LP/B-1F2
SOCKETS: CT.10/TO LP/B-2F2

2



1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

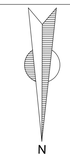
PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



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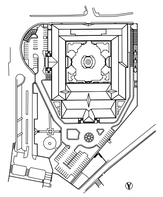


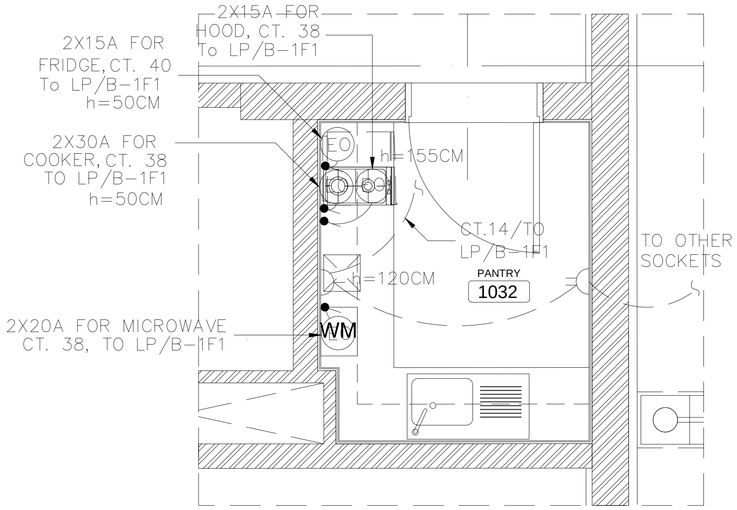
SCALE: 1/25

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Wet Areas Power Layout (2/2)

SHEET NO. L1202-CD-E-202-A1

Revision NO. 00



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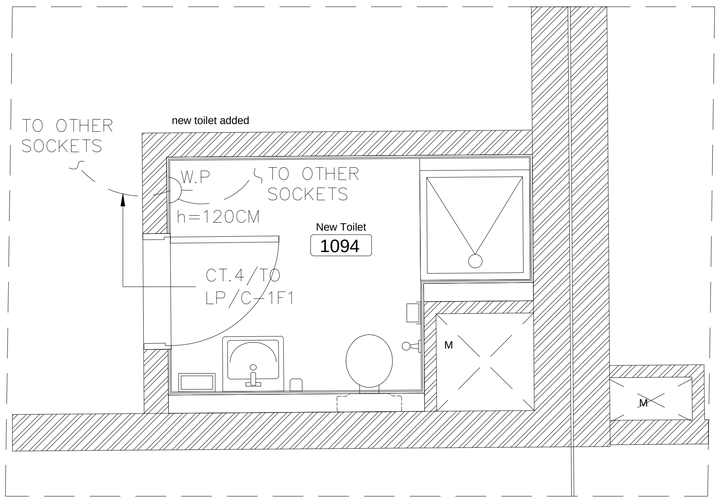

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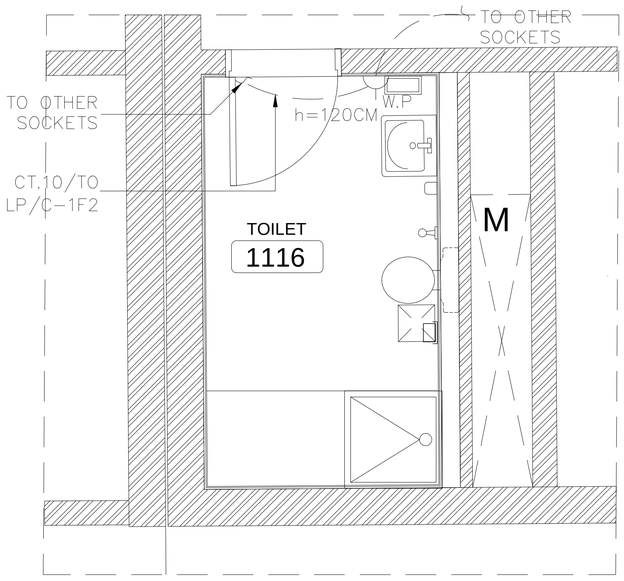

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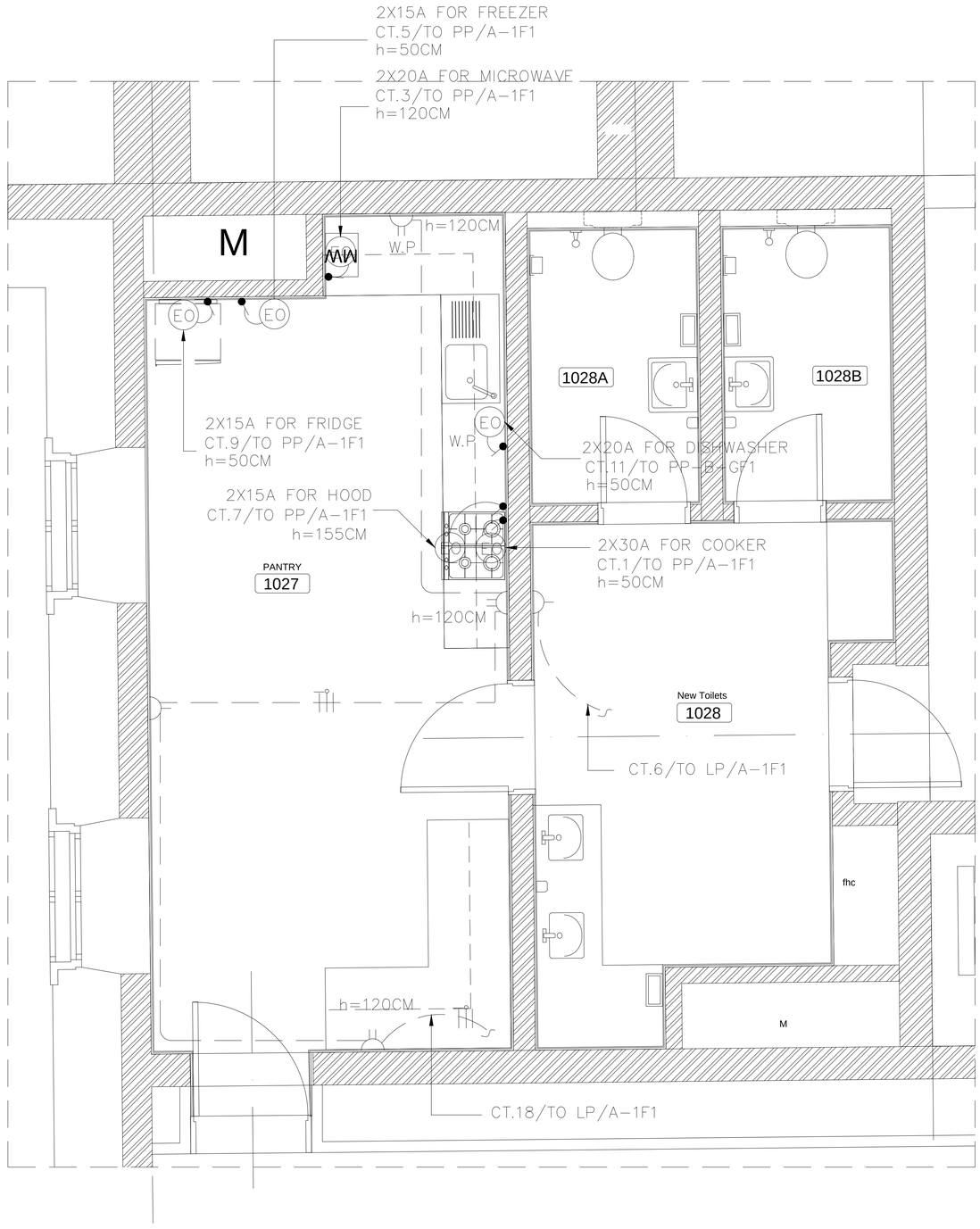


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

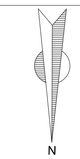
PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

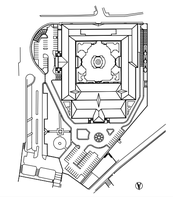
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:



SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

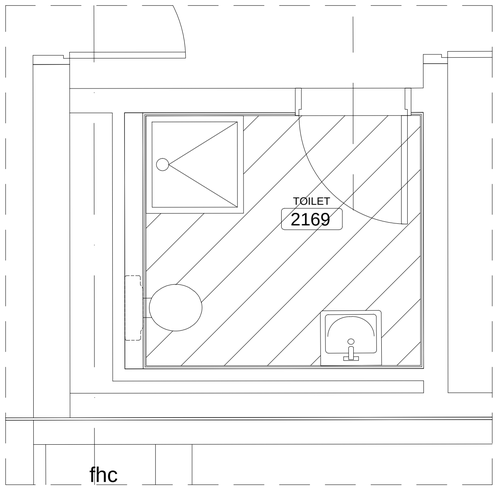
APPROVED BY :AC

SHEET TITLE

First Floor Wet Areas Power Layout

SHEET NO.
L1202-CD-E-203-A1

Revision NO.
00



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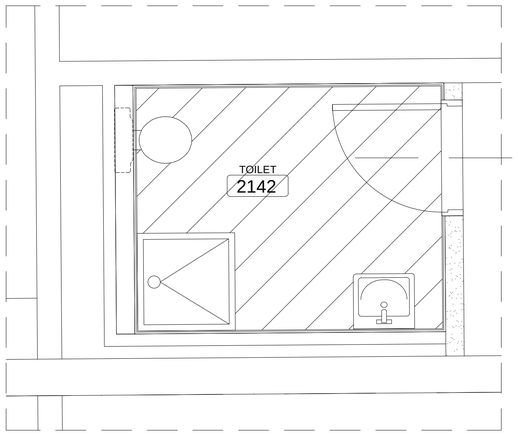

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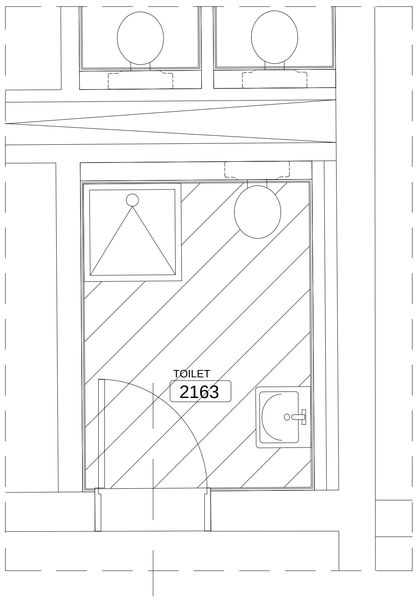

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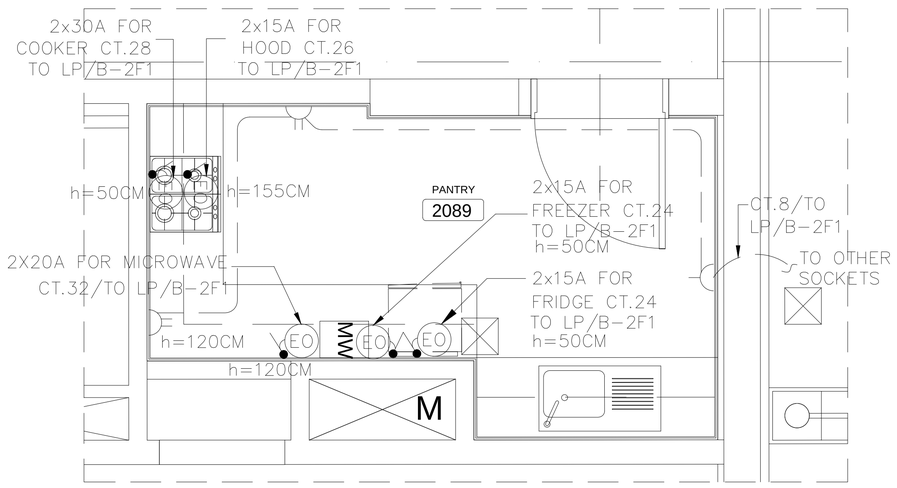


1

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax.: 01-809315
Saida office: Tel.: 07-726004 Tel.Fax.: 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF
GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

SCALE:
1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

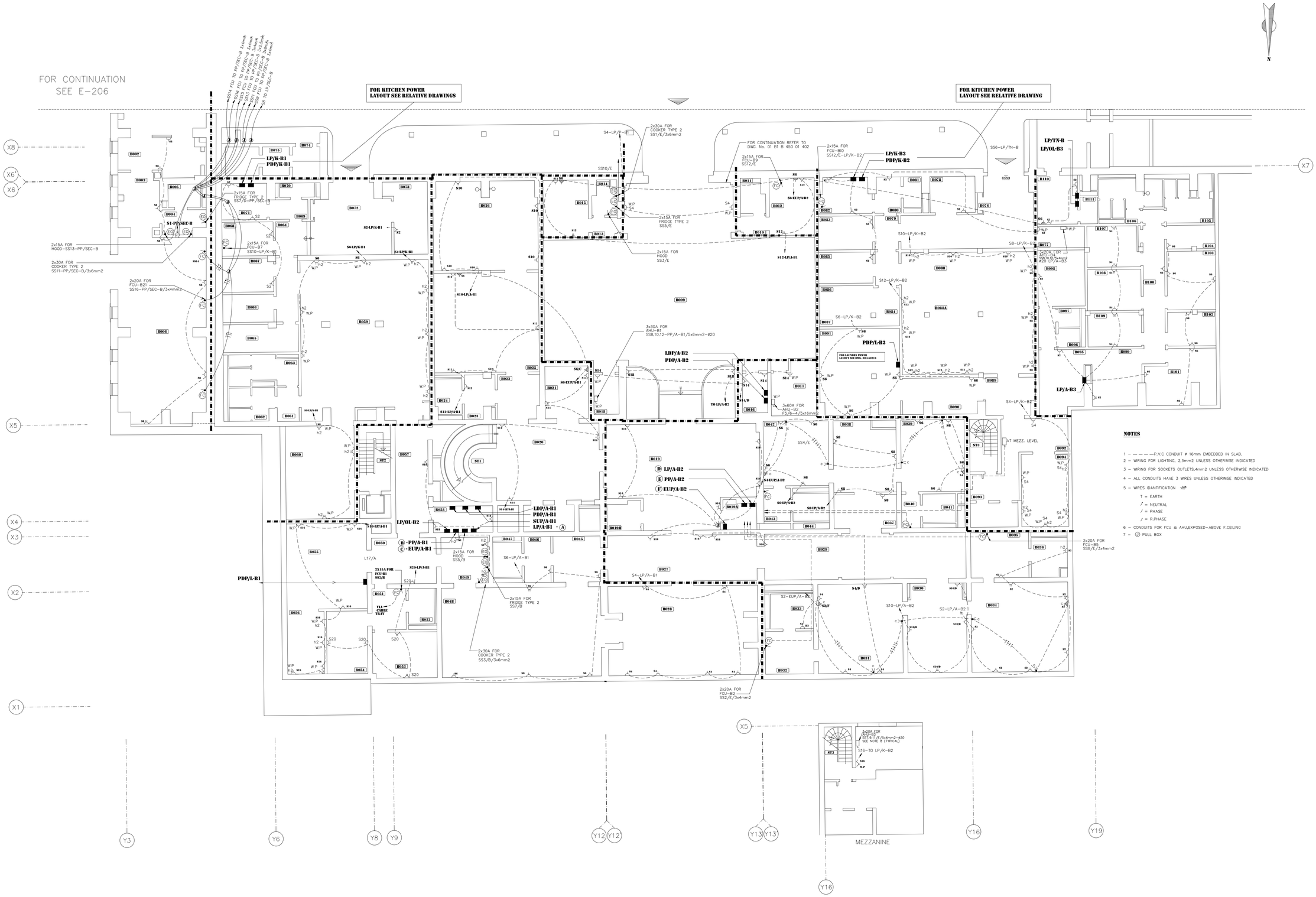
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Second Floor Wet Areas
Power Layout

SHEET NO.
E-204

Revision NO.
00



NOTES

1 – — — — —P.V.C CONDUIT ø 16mm EMBEDDED IN SLAB.
2 – WIRING FOR LIGHTING, 2,5mm2 UNLESS OTHERWISE INDICATED
3 – WIRING FOR SOCKETS OUTLETS,4mm2 UNLESS OTHERWISE INDICATED
4 – ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED
5 – WIRES IDANTIFICATION
T = EARTH
/ = NEUTRAL
/ = PHASE
/ = R.PHASE
6 – CONDUITS FOR FCU & AHU,EXPOSED–ABOVE F.CEILING
7 – (J) PULL BOX

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DKS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

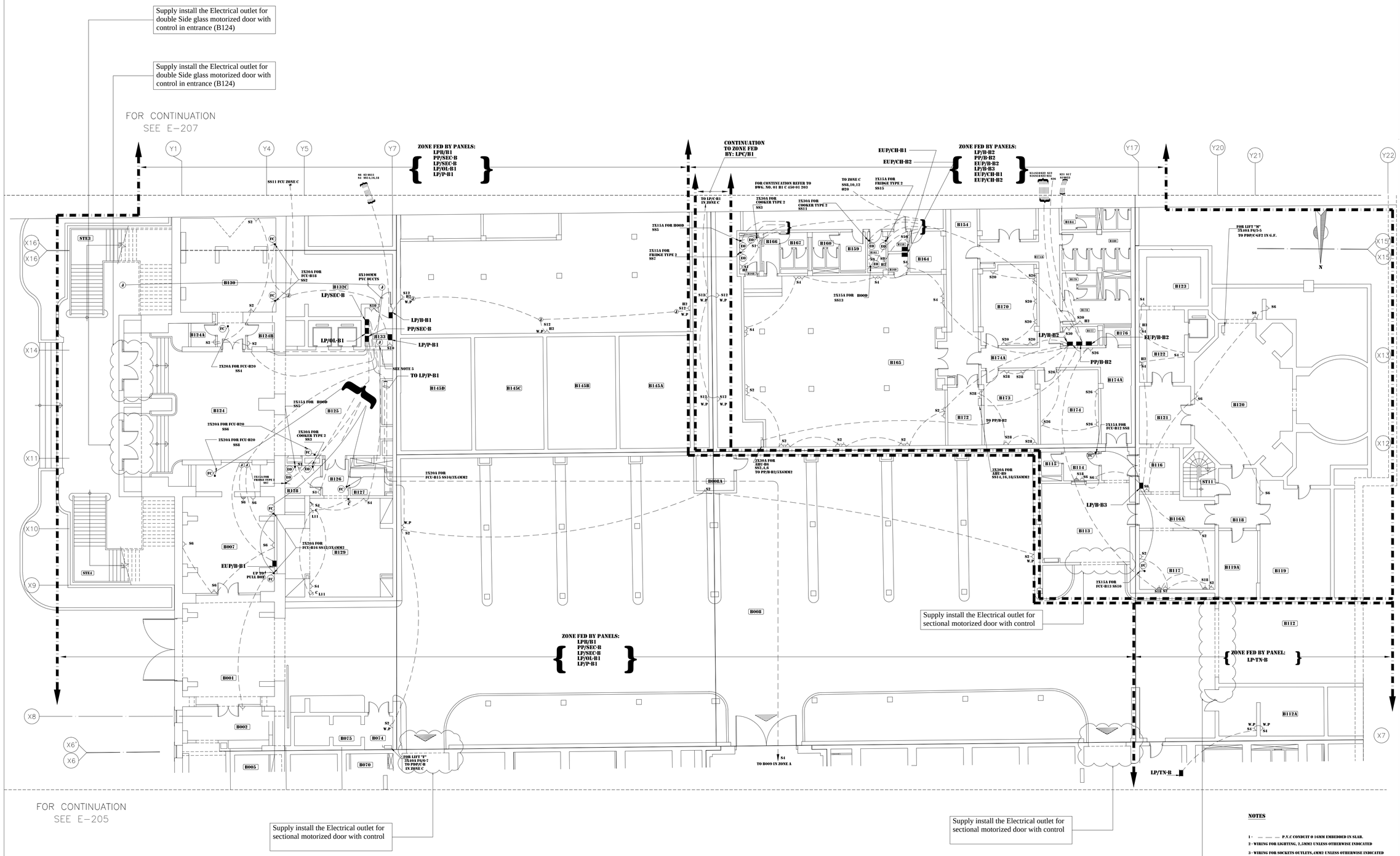
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Zone A Power Layout

SHEET NO. L1202-CD-E-205-A1

Revision NO. 00



NOTES

1 - — — — P.V.C CONDUIT Ø 16MM EMBEDDED IN SLAB.
2 - WIRING FOR LIGHTING, 2.5MM2 UNLESS OTHERWISE INDICATED
3 - WIRING FOR SOCKETS OUTLETS,4MM2 UNLESS OTHERWISE INDICATED
4 - ALL CONDUITS HAVE 3 WIRES UNLESS OTHERWISE INDICATED
5 - WIRES IDANTIFICATION
T = EARTH
/= NEUTRAL
/= PHASE
/= R.PHASE
6 - CONDUITS FOR FCU & AHU ,EXPOSED-ABOVE F.CEILING
7 - PULL BOX

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

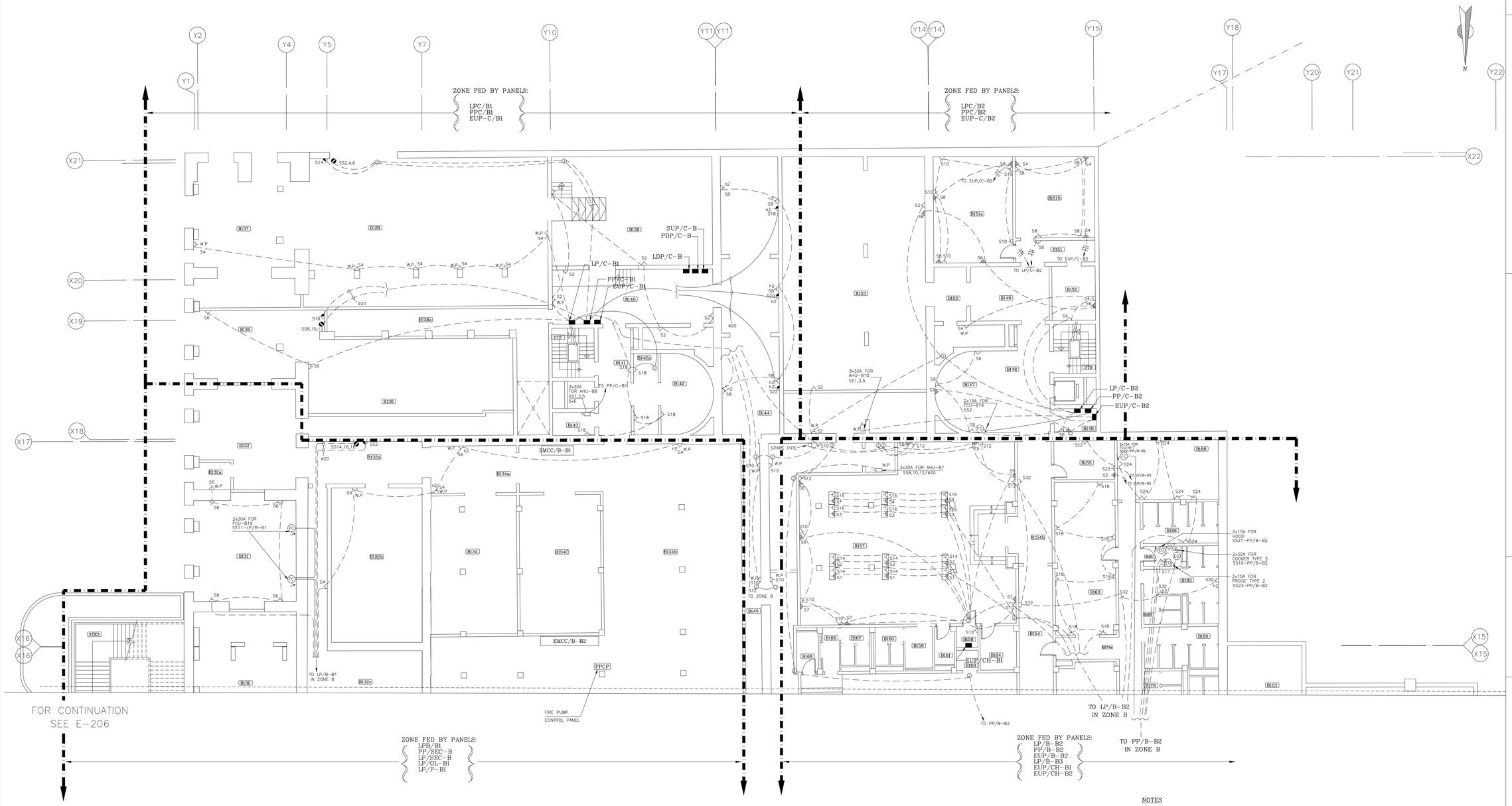
KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Zone B Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-206-A1	00



NOTES

1 – — — — — — — — EMBEDED CONDUITS IN SLAB ø16mm UNLESS OTHERWISE INDICATED
2 – — · — · — · — PVC CONDUITS EXPOSED ABOVE FALSE CEILING
3 – ———————— PVC CONDUITS EMBBEDED IN COVER SLAB
4 – (J) PULL BOX
5 – ALL CONDUITS RELATIVE TO SOCKET'S CIRCUITS HAVE 3 WIRES INSIDE (PHASE+NEUTRAL+EARTH)
6 – WIRING FOR LIGHTING, 2,5mm2 UNLESS OTHERWISE INDICATED
7 – WIRING FOR SOCKETS OUTLETS,4mm2 UNLESS OTHERWISE INDICATED
8 – WIRES IDANTIFICATION
T = EARTH
N = NEUTRAL
/ = PHASE
/ = R.PHASE
9 – CONDUITS FOR FCU & AHU,EXPOSED–ABOVE F.CEILING

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

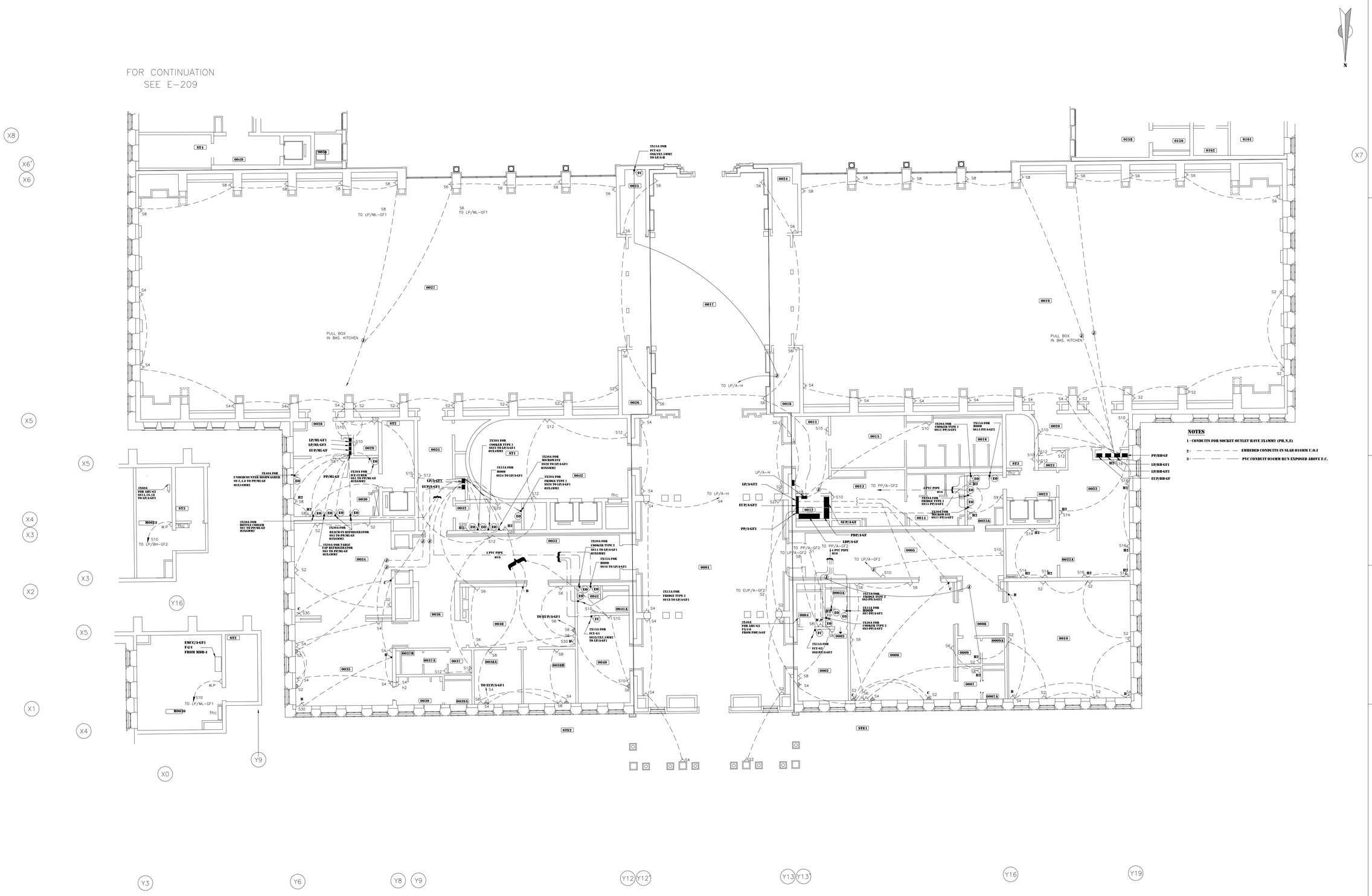
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Zone C Power Layout

SHEET NO.
L1202-CD-E-207-A1

Revision NO.
00



OWNER NAME:

CLIENT:

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT OFFICE :

A.CHEHAB architects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email : info@A.DRS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

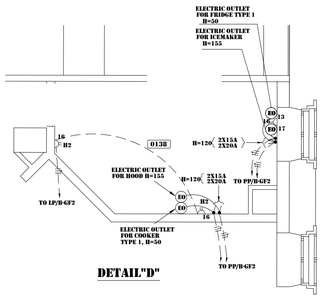
Ground Floor Zone A
Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-208-A1	00

FOR CONTINUATION REFER TO DWG E-210

FOR CONTINUATION REFER TO DWG E-208

0 2m 4m 6m 8m 10m 12m



DETAIL"D"

NOTES

2 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-4MM2+4MM2 IN 16MM PVC CDTS.

3 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDED IN SLAB

4 - WIRES IDENTIFICATION: HOMERUN WHERE
- :EARTH WIRE
- :PHASE WIRE
- :NEUTRAL WIRE

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHAB architects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

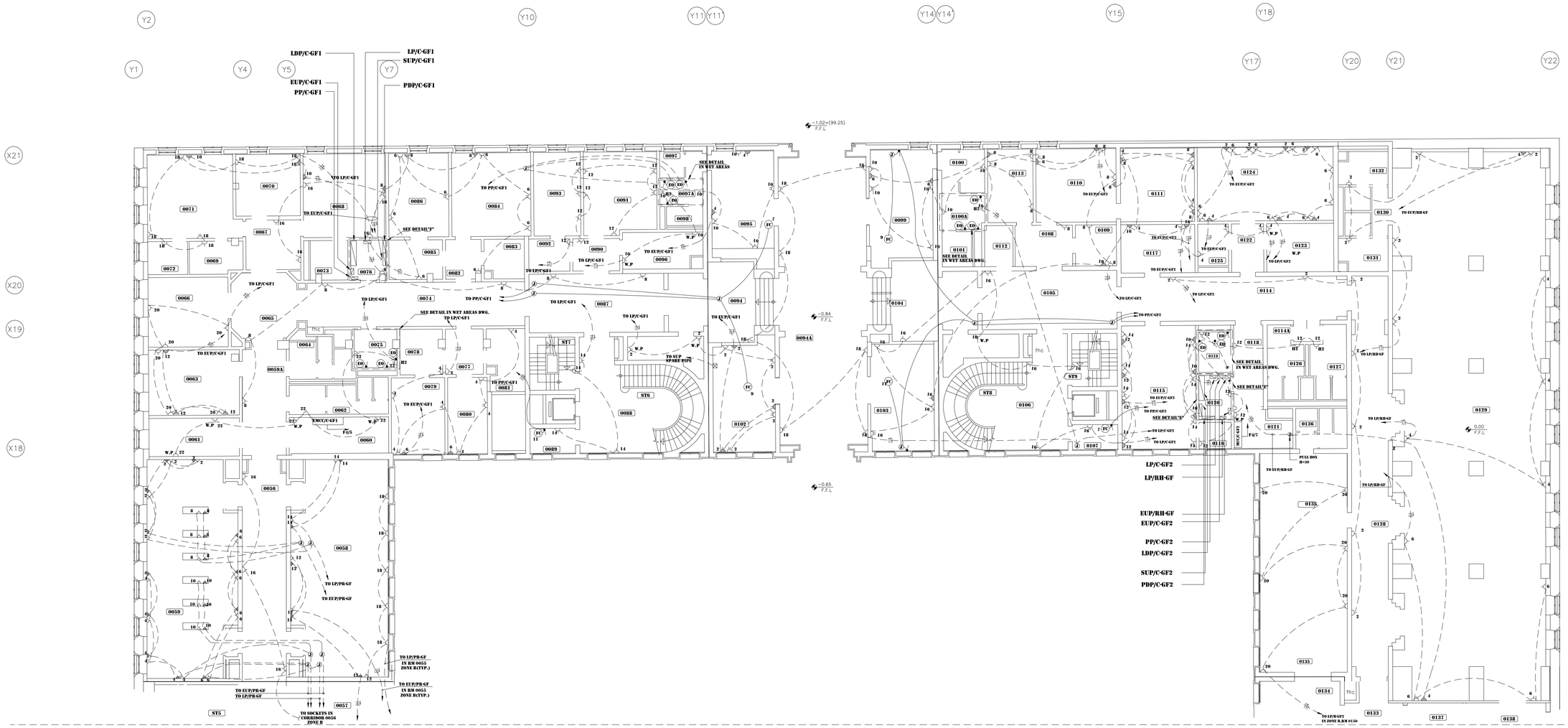
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Ground Floor Zone B Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-209-A1	00



FOR CONTINUATION, SEE DWG. E-209

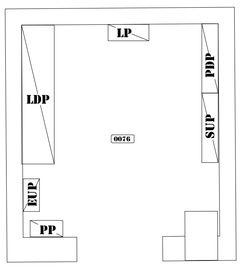
NOTES

1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-4MM2+4MM2 IN 16MM PVC CDTS.

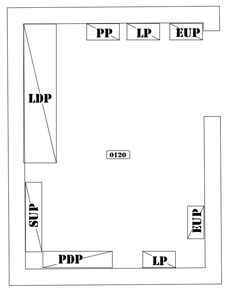
2 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION — HOMERUN WHERE: T=EARTH WIRE , =PHASE WIRE , =NEUTRAL WIRE .



DETAIL"F" (SCALE:1/25)



DETAIL"E" (SCALE:1/25)

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

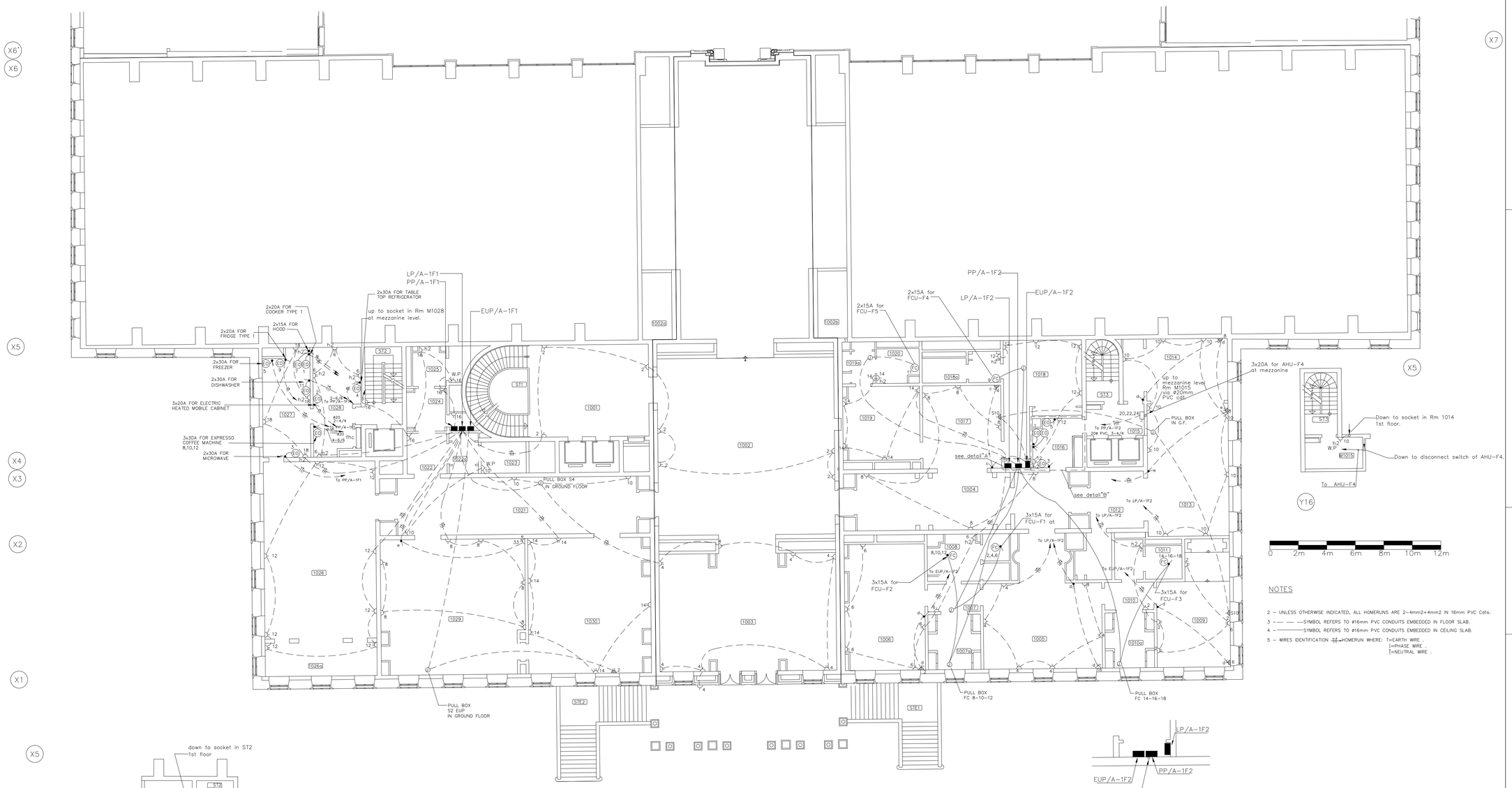
APPROVED BY :AC

SHEET TITLE

Ground Floor Zone C
Power Layout

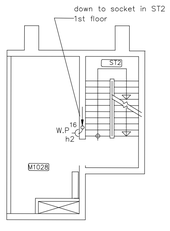
SHEET NO.	Revision NO.
L1202-CD-E-210-A1	00

FOR CONTINUATION, SEE DWG. E-212

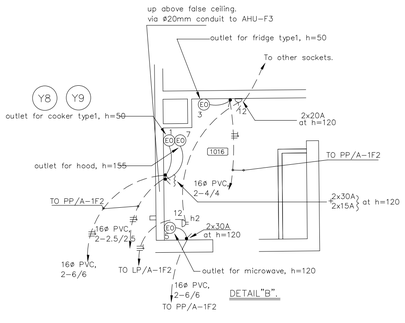


NOTES

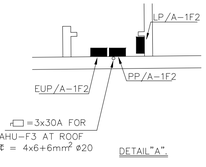
2 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-4mm2+4mm2 IN 16mm PVC Cdts.
3 - —— —— —SYMBOL REFERS TO ø16mm PVC CONDUITS EMBEDDED IN FLOOR SLAB.
4 - ————SYMBOL REFERS TO ø16mm PVC CONDUITS EMBEDDED IN CEILING SLAB.
5 - WIRES IDENTIFICATION ⫽ HOMERUN WHERE: T=EARTH WIRE .
!=PHASE WIRE .
!=NEUTRAL WIRE .



Y6



Y8 Y9 Y12 Y12' Y13 Y13' Y16 Y19



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

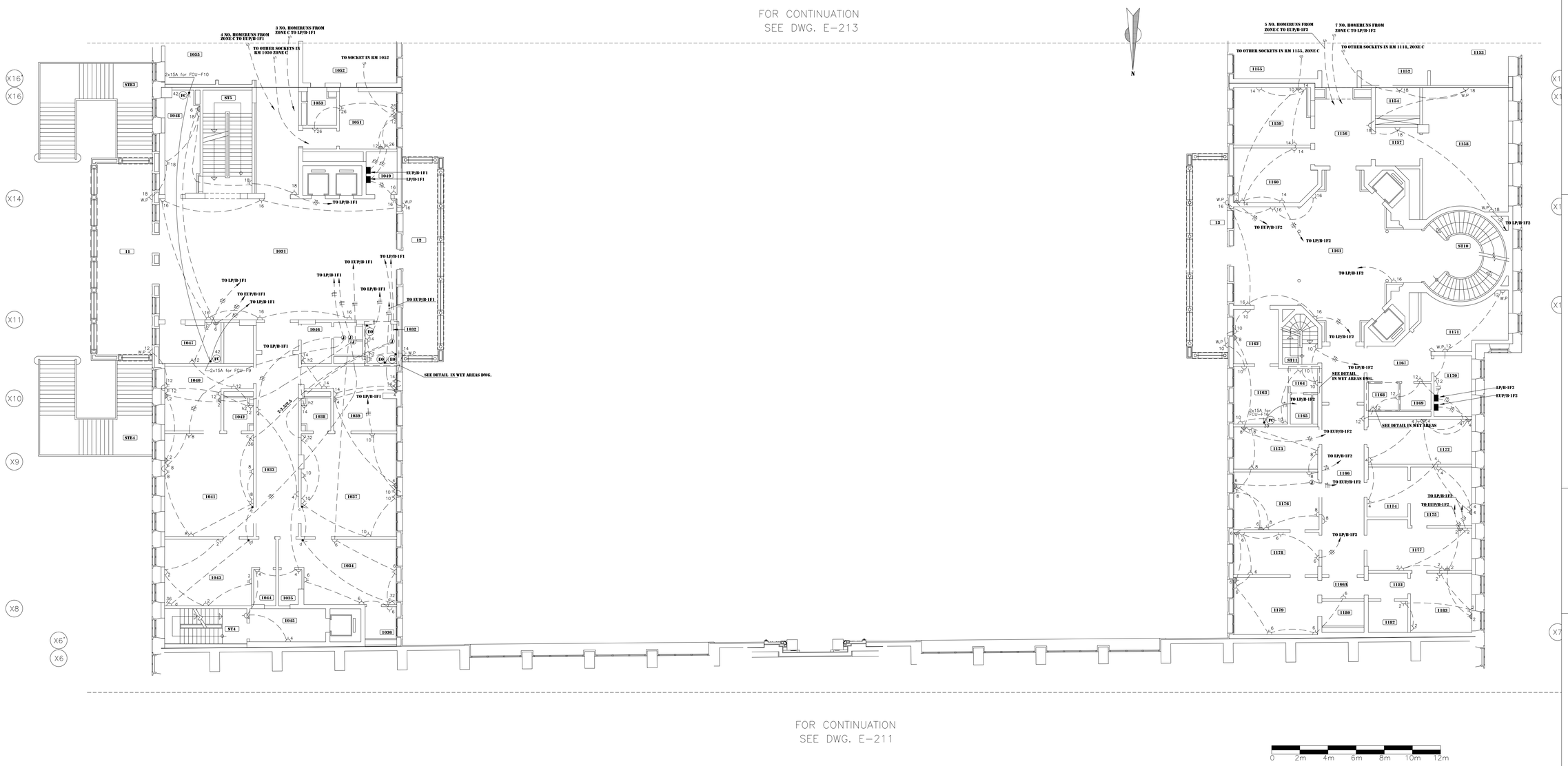
KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
First Floor Zone A Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-211-A1	00



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-1MM2+4MM2 IN 16MM PVC CDTS.

2 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION — HOMERUN WHERE: T=EARTH WIRE . +=PHASE WIRE . -=NEUTRAL WIRE .

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

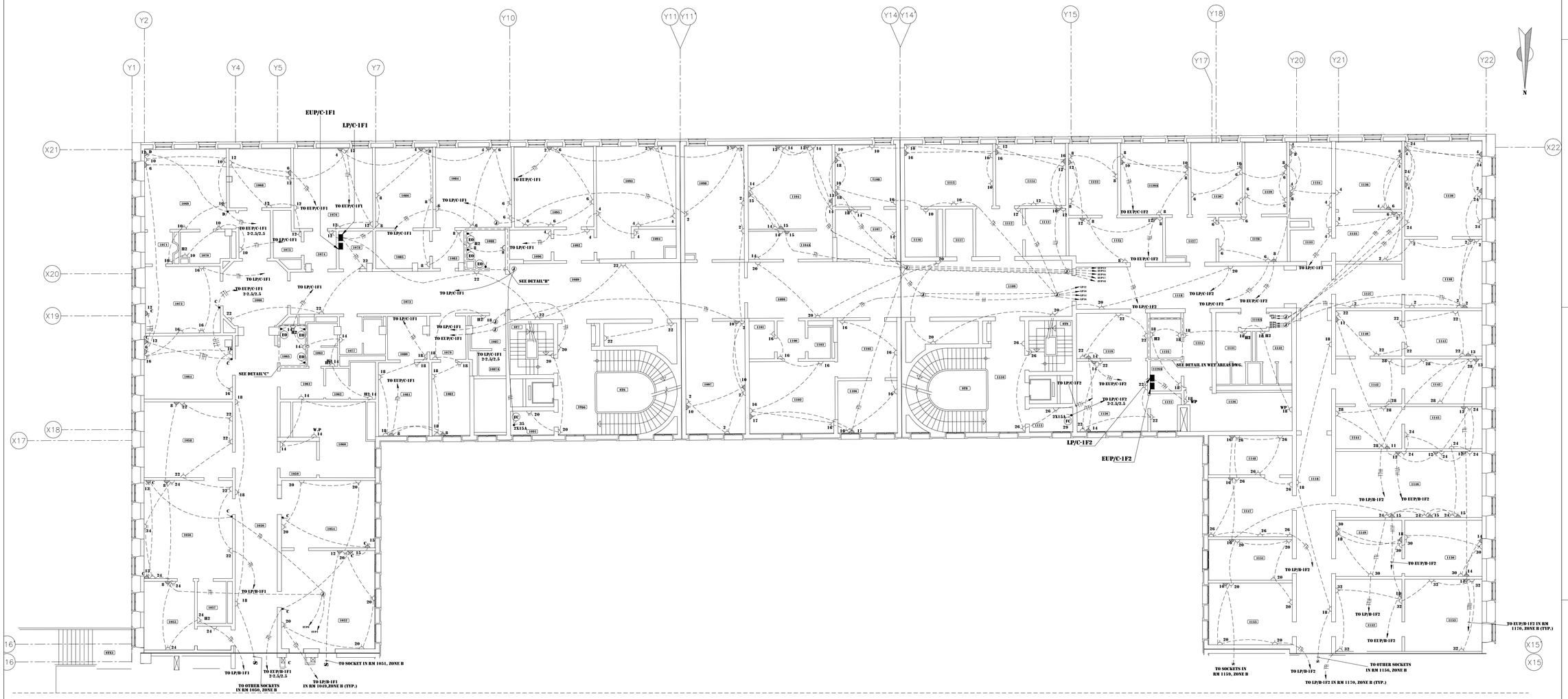
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

First Floor Zone B
Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-212-A1	00



FOR CONTINUATION, SEE DWG. E-212

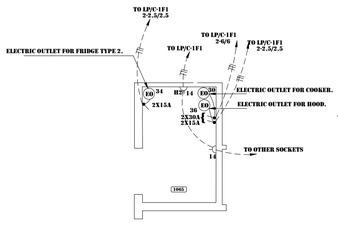
0 2m 4m 6m 8m 10m 12m

NOTES

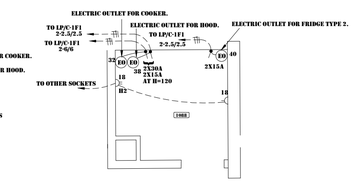
1 - UNLESS OTHERWISE INDICATED,ALL HOMERUNS ARE 2-(4MM2+4MM2 IN 16MM PVC CDTS.

2 - SYMBOL REFERS TO 014GMM PVC CONDUITS EMBEDED IN SLAB

3 - WIRES IDENTIFICATION: HOMERUN WHERE :EARTH WIRE
:PHASE WIRE
:NEUTRAL WIRE



DETAIL"C"



DETAIL"B"

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

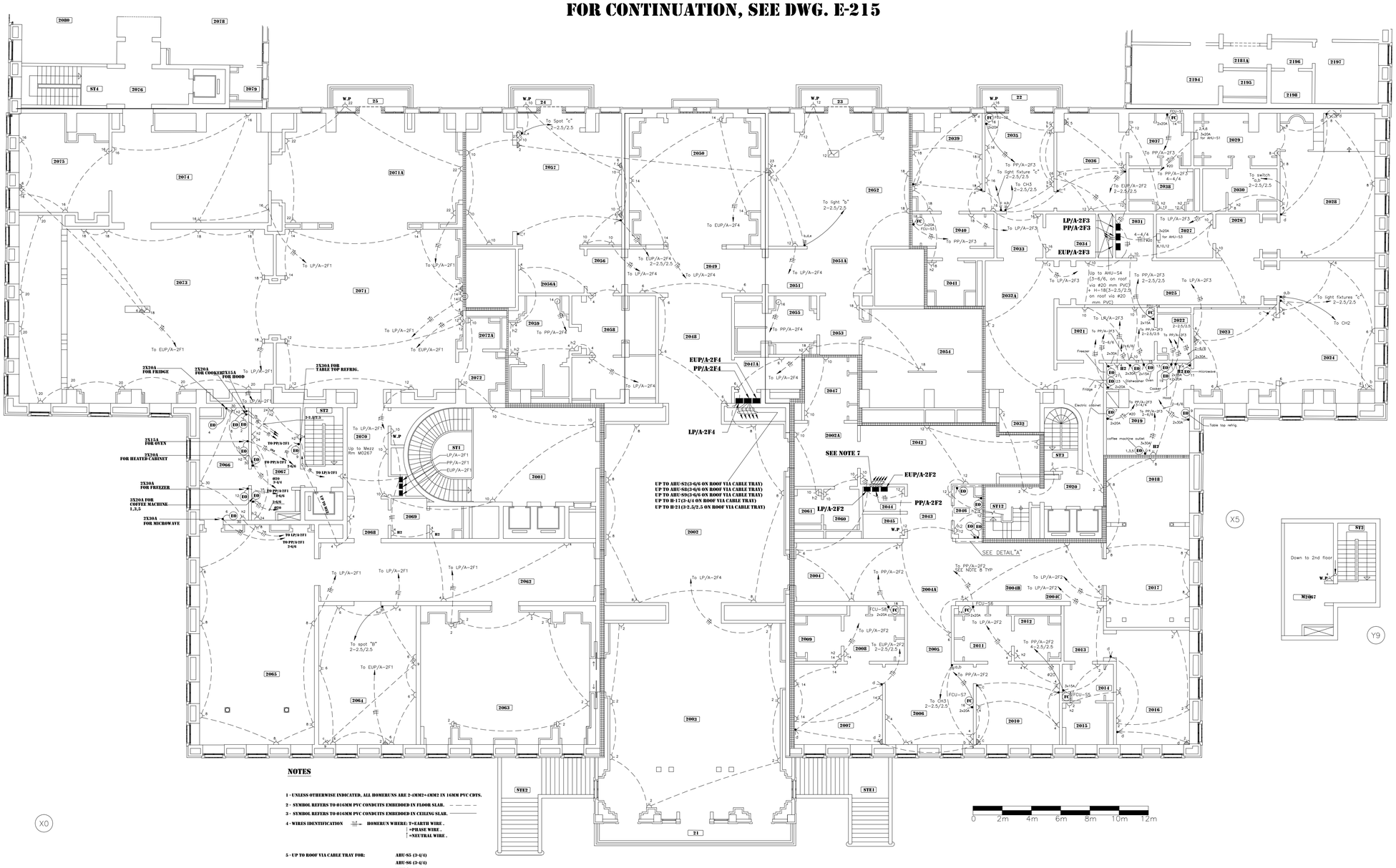
APPROVED BY :AC

SHEET TITLE

First Floor Zone C
Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-213-A1	00

FOR CONTINUATION, SEE DWG. E-215



NOTES

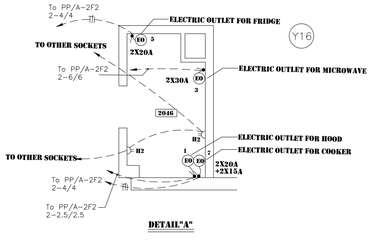
1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-4MM2+4MM2 IN 16MM PVC CDTS.

2 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION — HOMERUN WHERE: T=EARTH WIRE. | =PHASE WIRE. | =NEUTRAL WIRE.

5 - UP TO ROOF VIA CABLE TRAY FOR:
AHU-S5 (3-4/4)
AHU-S6 (3-4/4)
AHU-S7 (3-4/4)
H-20 (3-2.5/2.5)
H-19 (2-2.5/2.5)



DETAIL"A"

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LIRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

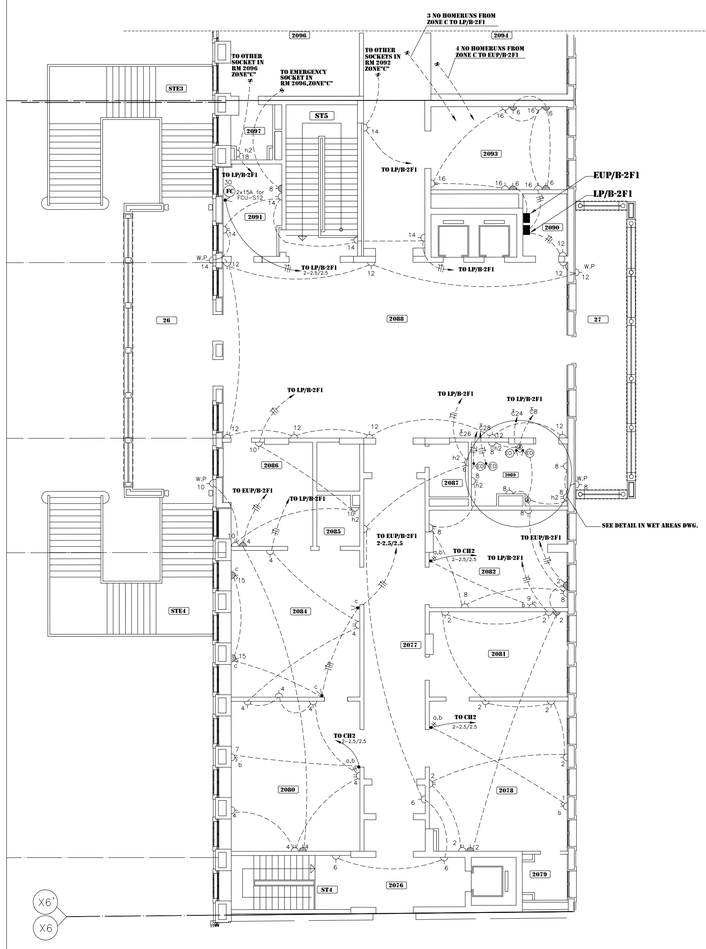
APPROVED BY :AC

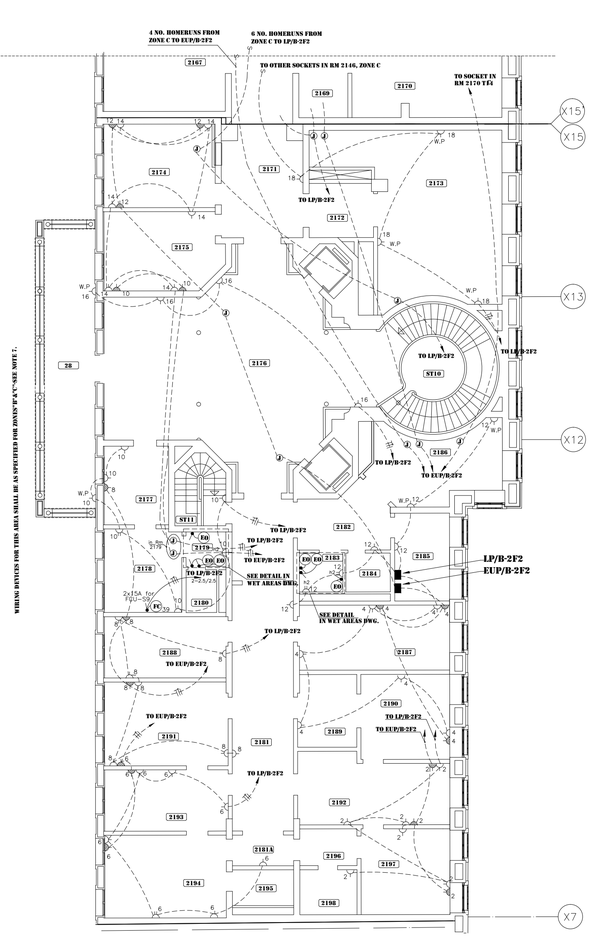
SHEET TITLE
Second Floor Zone A Power Layout

SHEET NO. L1202-CD-E-214-A1

Revision NO. 00

FOR CONTINUATION
SEE DWG. E-214





FOR CONTINUATION
SEE DWG. E-216

0 2m 4m 6m 8m 10m 12m

NOTES

1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-1MM2+1MM2 IN 16MM PVC CDTS.

2 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION — HOMERUN WHERE: T=EARTH WIRE , |=PHASE WIRE , |=NEUTRAL WIRE .

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

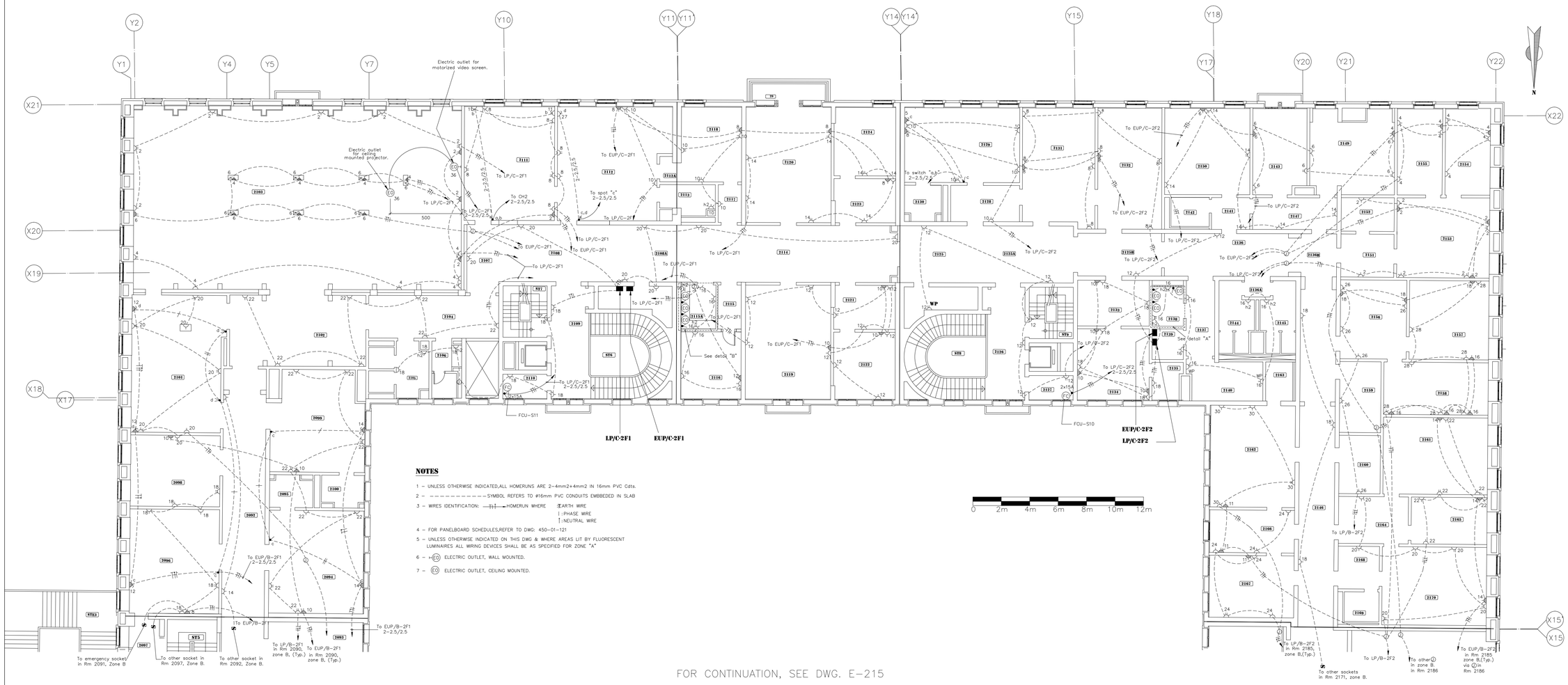
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Second Floor Zone B Power Layout

SHEET NO. L1202-CD-E-215-A1

Revision NO. 00



NOTES

1 – UNLESS OTHERWISE INDICATED,ALL HOMERUNS ARE 2–4mm2+4mm2 IN 16mm PVC Cdts.

2 – – – – – – – – – – – – SYMBOL REFERS TO ø16mm PVC CONDUITS EMBBEDED IN SLAB

3 – WIRES IDENTIFICATION: —||—/—||— HOMERUN WHERE :EARTH WIRE
|| :PHASE WIRE
|| :NEUTRAL WIRE

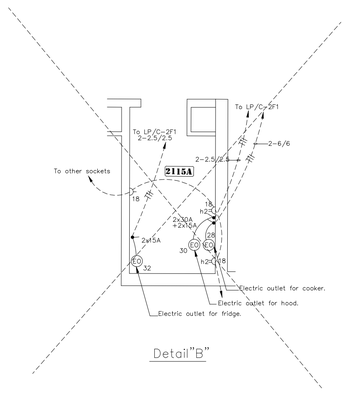
4 – FOR PANELBOARD SCHEDULES,REFER TO DWG: 450–01–121

5 – UNLESS OTHERWISE INDICATED ON THIS DWG & WHERE AREAS LIT BY FLUORESCENT LUMINAIRES ALL WIRING DEVICES SHALL BE AS SPECIFIED FOR ZONE "A"

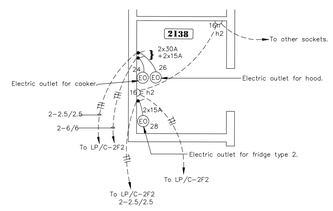
6 – —(EO) ELECTRIC OUTLET, WALL MOUNTED.

7 – (EO) ELECTRIC OUTLET, CEILING MOUNTED.

FOR CONTINUATION, SEE DWG. E–215



Detail"B"



Detail"A"

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

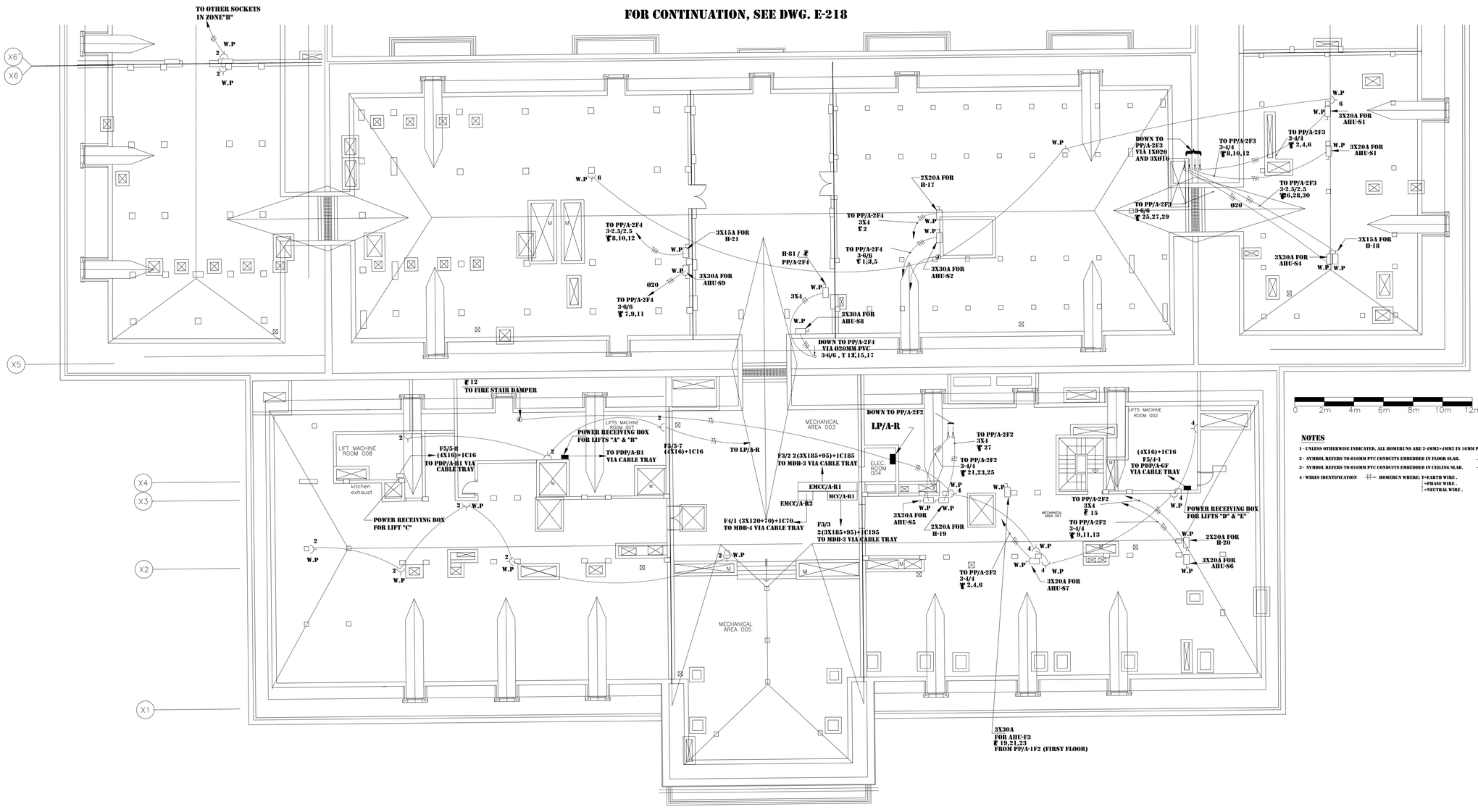
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Second Floor Zone C Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-216-A1	00



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-1MM2+1MM2 IN 16MM PVC CBTS.

2 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO 016MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION — HOMERUN WHERE: T=EARTH WIRE. =PHASE WIRE. =NEUTRAL WIRE.

OWNER NAME:

CLIENT:

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

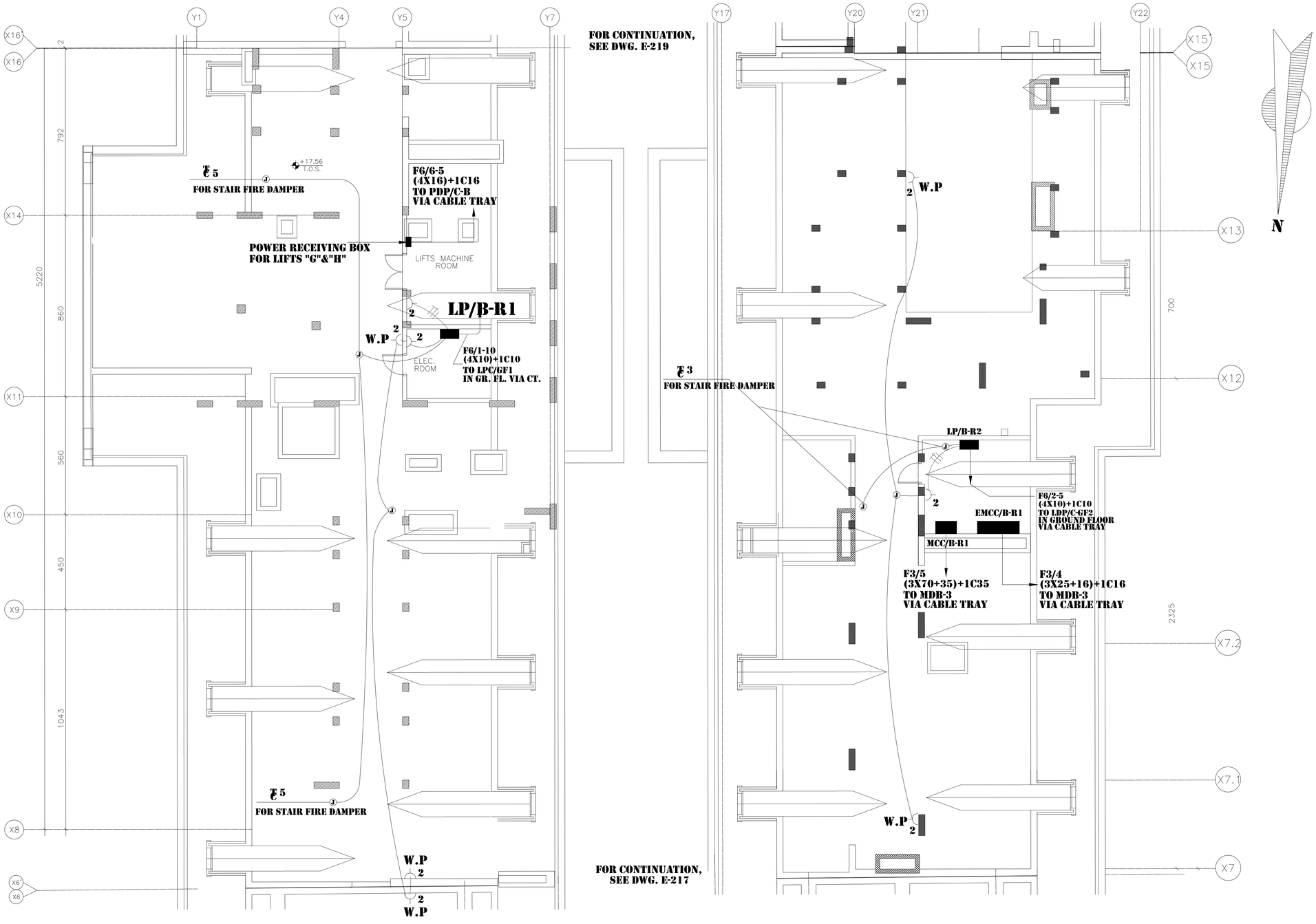
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Roof Floor Zone A Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-217-A1	00



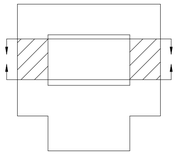
NOTES

1 - UNLESS OTHERWISE INDICATED, ALL HOMERUNS ARE 2-4MM2+4MM2 IN 16MM PVC CDTS.

2 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN FLOOR SLAB.

3 - SYMBOL REFERS TO Ø16MM PVC CONDUITS EMBEDDED IN CEILING SLAB.

4 - WIRES IDENTIFICATION HOMERUN WHERE: T=EARTH WIRE . =PHASE WIRE . =NEUTRAL WIRE .



0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DRS-CD.com

PROJECT NAME: REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

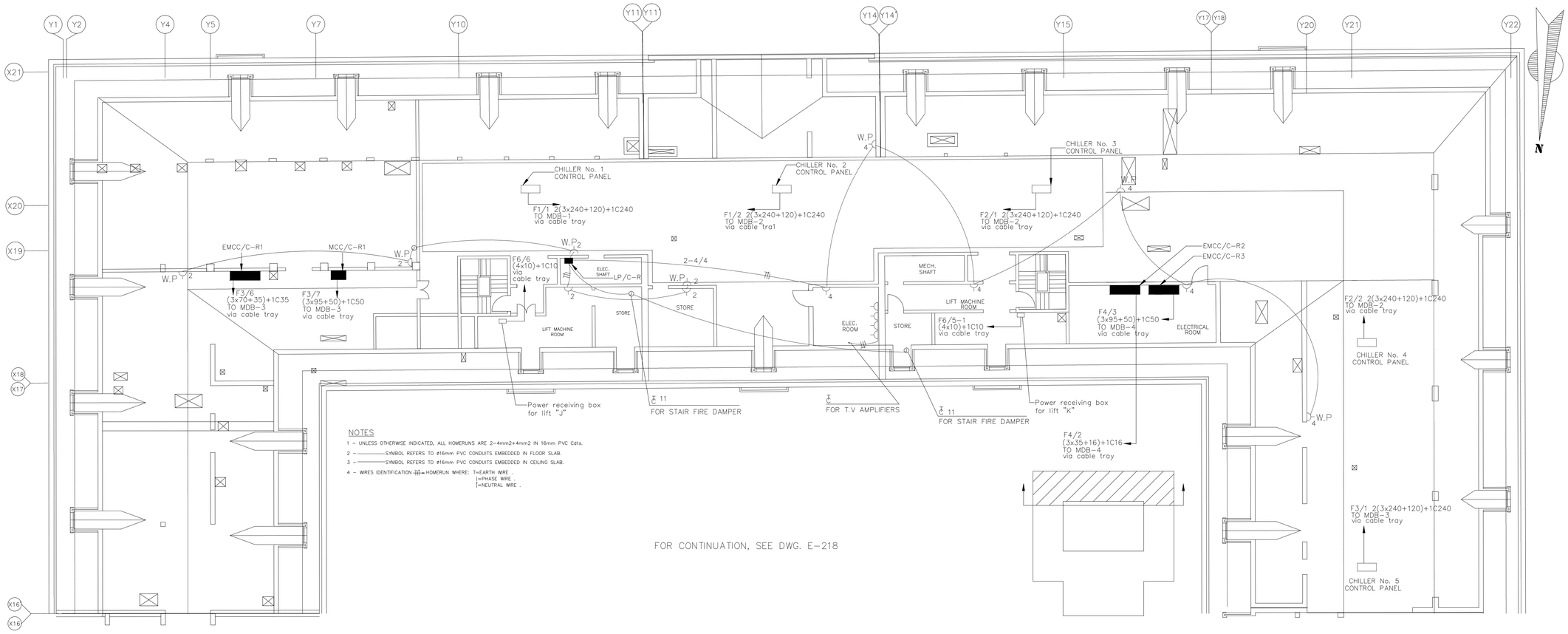
APPROVED BY :AC

SHEET TITLE

Roof Floor Zone B Power Layout

SHEET NO. L1202-CD-E-218-A1

Revision NO. 00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

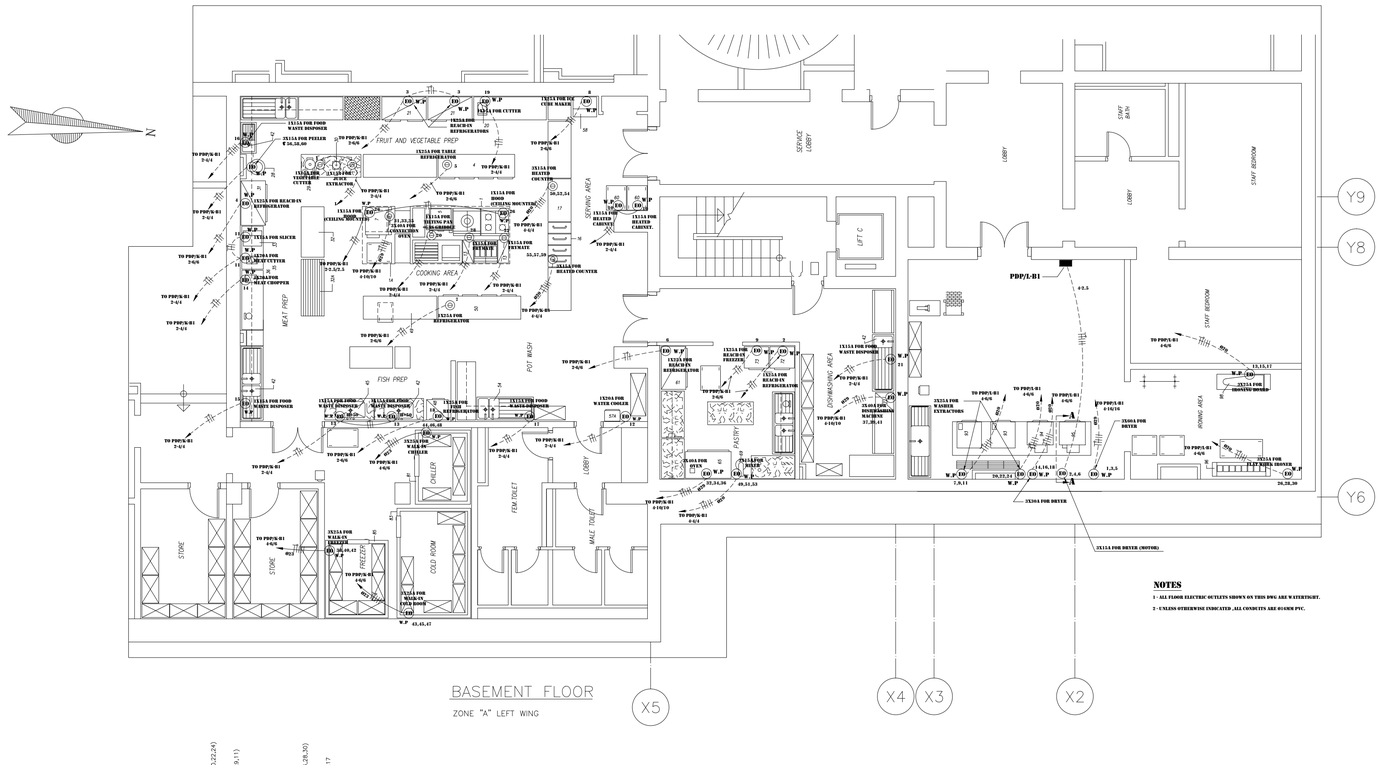
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Roof Floor Zone C
Power Layout

SHEET NO.	Revision NO.
L1202-CD-E-219-A1	00



BASEMENT FLOOR

ZONE "A" LEFT WING

NOTES

1 - ALL FLOOR ELECTRIC OUTLETS SHOWN ON THIS DWG ARE WATERTIGHT.

2 - UNLESS OTHERWISE INDICATED ,ALL CONDUITS ARE 01CORE PVC.

FINAL BRANCH CIRCUIT PANEL BOARD

PANEL REF: PDP/K-B1

PANEL TYPE: MCCB (60 W 415)

BUILDING: GRAND SERAIL

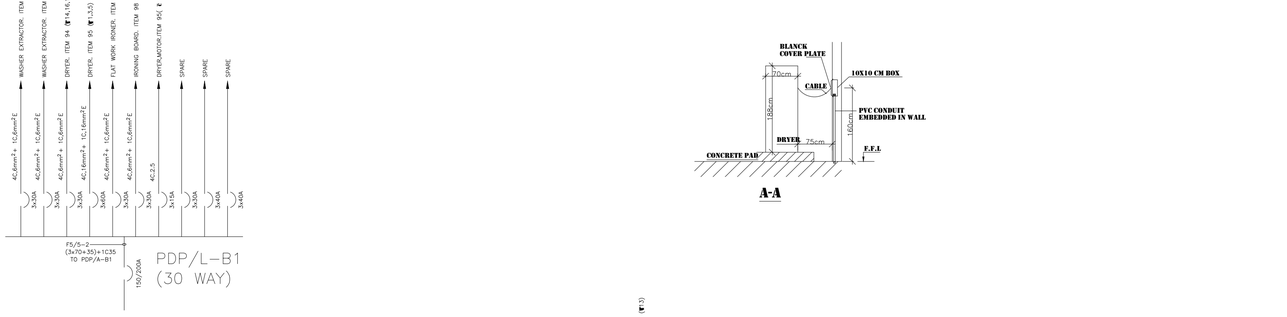
LOCATION: BAS. F. (ZONE "A") KITCHEN LEFT WING

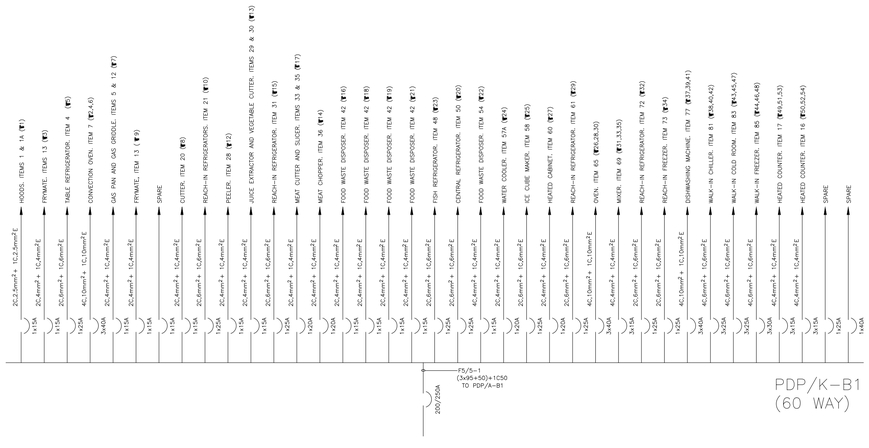
VOLTAGE & FREQ.: 380/220V,50HZ.

S.C. RATING (I.C.): 20KA

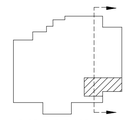
DESIGNATION OF LOAD	WIRE SIZE (MM)	PHASE LOAD IN AMPS R	Y	B	TRIP RATING R Y B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE (MM)	DESIGNATION OF LOAD
JUICE EXTRACTOR AND VEGETABLE CUTTER ITEM 29&30	4	3			25 / 1	1.5			6	REACH IN REFRIGERATOR ITEM 31
REACH IN REFRIGERATOR ITEM 21	6		2.5		25 / 2		2.5		6	REACH IN REFRIGERATOR ITEM 21
TABLE REFRIGERATOR ITEM 4	6			1.5	25 / 3			2.5	6	TABLE REFRIGERATOR ITEM 4
CENTRAL REFRIGERATOR ITEM 4	6	1			25 / 4	12.5			6	ICE CUBE MAKER ITEM 38
REACH IN FREEZER ITEM 73	6		3		25 / 5		7		4	HEATED CABINET ITEM 60
MEAT CUTTER & SLICER ITEM 33&37	4			8	20 / 6	12		2	4	WATER COOLER ITEM 57A
FOOD WASTE DISPOSER ITEM 42	4	4.5			15 / 7	5.5			4	MEAT CHOPPER ITEM 36
FOOD WASTE DISPOSER ITEM 42	4		4.5		15 / 8		4.5		4	FOOD WASTE DISPOSER ITEM 44
FOOD WASTE DISPOSER ITEM 42	4			4.5	15 / 9			1.5	6	FISH REFRIGERATOR ITEM 48
CUTTER ITEM 30	4	1			15 / 10	6.5			4	GAS PAN & GAS GRIDDLE ITEM 5 & 12
FOOD WASTE DISPOSER ITEM 42	4	4.5			15 / 11		4		4	FRY WATE ITEM 13
SPARE	-				15 / 12					SPARE
SPARE					15 / 13	5.5		2.5		HOODS ITEM 1 & 1A
SPARE					60 / 14		4		4	FRY WATE ITEM 13
					20 / 15					
					20 / 16					
		20			60 / 17	21.5			10	OVEN ITEM 65
CONVECTION OVEN ITEM 7	10		20		35 / 18		21.5			
				20	35 / 19			21.5		
		20			60 / 20	1.5				
DISWASHING MACHINE ITEM 77	10		20		20 / 21			1.5	6	WALK-IN FREEZER ITEM 85
				20	35 / 22			1.5		
		1.5			25 / 23	1				
WALK-IN COLD ROOM ITEM 83	6		1.5		25 / 24		1		6	WALK-IN CHILLER ITEM 81
				1.5	25 / 25			1		
		2			15 / 26	1				
MIXER ITEM 69	4		2		15 / 27		1		4	HEATED COUNTER ITEM 17
				2	15 / 28			1		
		7			15 / 29	3				
HEATED COUNTER ITEM 16	4		7		15 / 30		3		2.5	PELLER ITEM 28
				7	15 / 31			3		
SUBTOTALS (AMPS)	60	65	64.5			60.5	53	37		
TOTAL AMPS (CONNECTED)	60.5 / 156.0	53 / 118	37 / 101.5		300/310 AMPS TRIP/FRAME					

TOTAL CONNECTED LOAD _____KVA		LIGHTING	MOTORS	S.OUTLET	MISC.	TOTAL
	CONN. KVA	-		-	7.6.B	7.6.B
	DEM. FACTOR	0.8			0.8	0.8
	DEMAND KVA	14		4.5	60	60





A-A



BASEMENT FLOOR
ZONE A – LEFT WING

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DKS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE
1/100

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

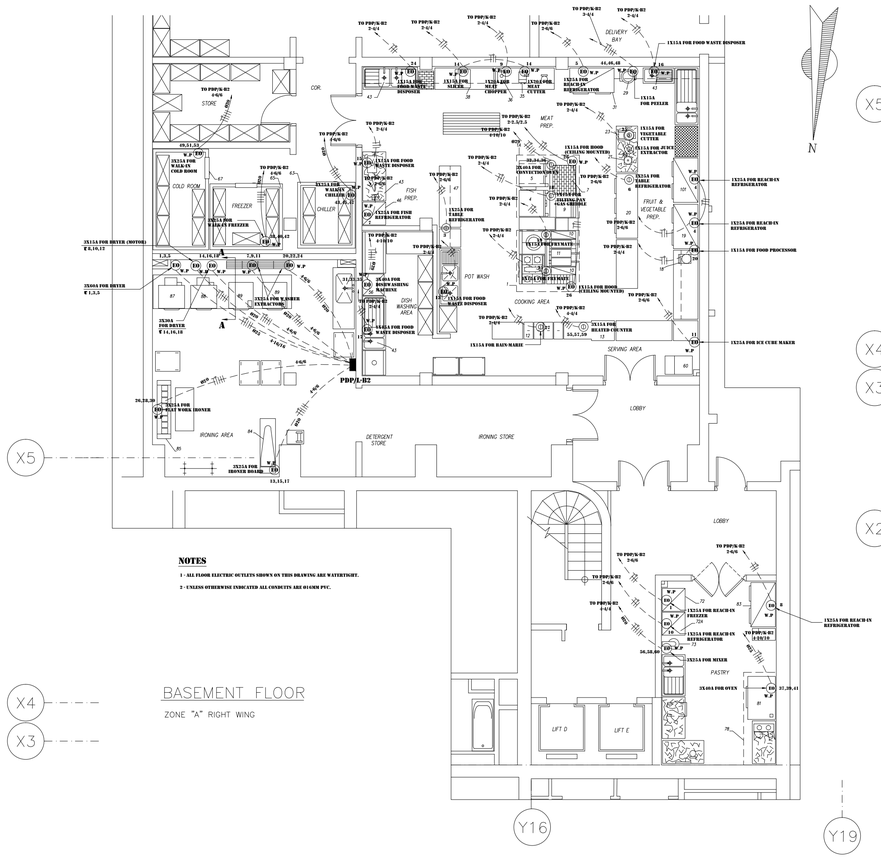
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Basement Floor Zone A/ Left Wing -Power Layout

SHEET NO.
L1202-CD-E-220-A1

Revision NO.
00



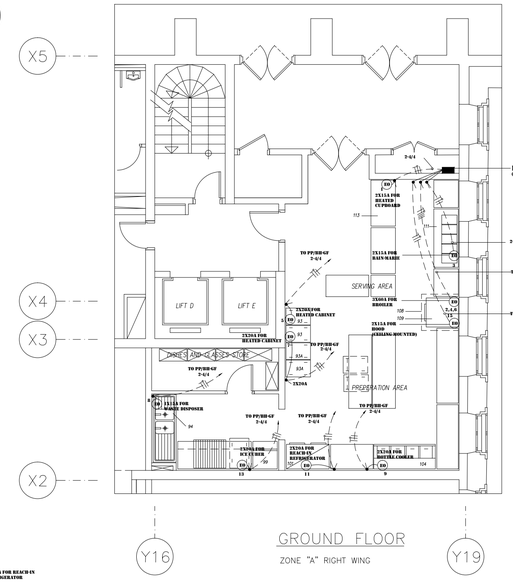
NOTES

1 - ALL FLOOR ELECTRIC OUTLETS SHOWN ON THIS DRAWING ARE WATERTIGHT.

2 - UNLESS OTHERWISE INDICATED ALL CONDUITS ARE 016MM PVC.

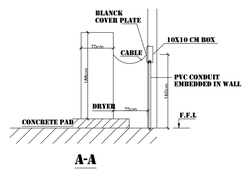
BASEMENT FLOOR

ZONE "A" RIGHT WING

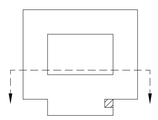


GROUND FLOOR

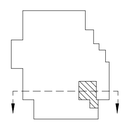
ZONE "A" RIGHT WING



A-A



GROUND FLOOR
ZONE A – RIGHT WING



BASEMENT FLOOR
ZONE A – RIGHT WING

FINAL BRANCH CIRCUIT PANEL BOARD

PANEL REF. PDP/L-B2

PANEL TYPE MCCB (60 WAY)

BUILDING GRAND SERAIL

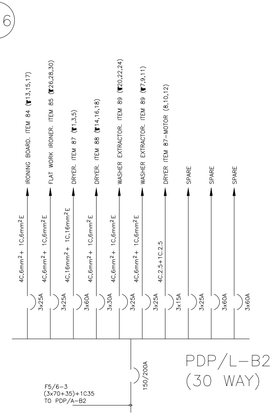
LOCATION BAS. F. (2050) "A") KITCHEN RIGHT WING

VOLTAGE & FREQ. 380/220V,50HZ

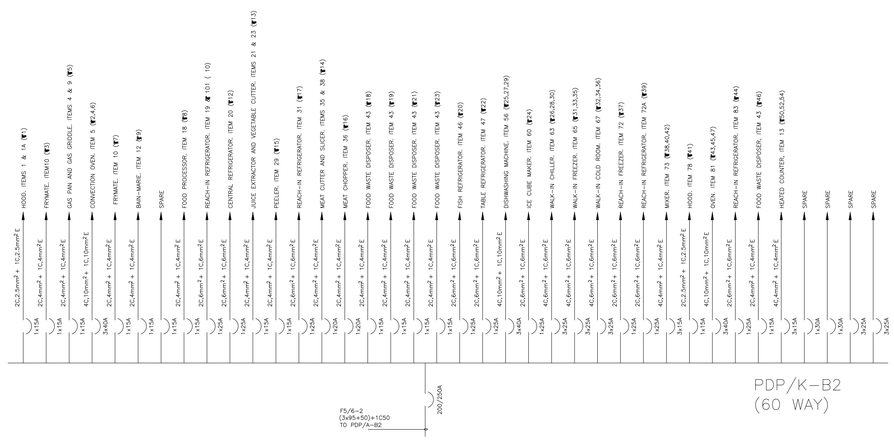
S.C. RATING (I.C.) 8kA

DESIGNATION OF LOAD	WIRE SIZE (MM2)	PHASE LOAD IN AMPS R	Y	B	TRIP RATING IN AMPS R	Y	B	PHASE LOAD IN AMPS R	Y	B	WIRE SIZE (MM2)	DESIGNATION OF LOAD
REACH IN FREEZER ITEM 72	6	2			25	30						SPARE
TABLE REFRIGERATOR ITEM 47	6		1		25	25		5			6	REACH IN REFRIGERATOR ITEM 15 & 101
REACH IN REFRIGERATOR ITEM 17	6			2.5	25	25			1		6	CENTRAL REFRIGERATOR ITEM 20
FISH REFRIGERATOR ITEM 40	6	1.5			25	25	2.5				6	REACH IN REFRIGERATOR ITEM 83
MEAT CHOPPER ITEM 30	6		3		20	25		1.5			6	REACH IN REFRIGERATOR ITEM 73
ICE CUBE MAKER ITEM 00	4			5.5	25	20						SPARE
FOOD WASTE DISPOSER ITEM 42	2.5	3			15	20	6				4	MEAT CUTTER & SLICER ITEM 15 & 38
FOOD WASTE DISPOSER ITEM 41	4		4.5		15	15		4.5			4	FOOD WASTE DISPOSER ITEM 43
FOOD WASTE DISPOSER ITEM 43	4			4.5	15	15			4.5		4	GAS PAN & GAS GRIDDLE ITEM 5 & 9
FRY MATE ITEM 10	4	4			15	15	3				4	FOOD PROCESSOR ITEM 18
FRY MATE ITEM 10	4	4			15	15		–				SPARE
SPARE				-	15	15			4.5		4	FOOD WASTE DISPOSER ITEM 43
JUICE EXTRACTOR AND VEGETABLE CUTTER ITEM 21&23	4	3			15	15	3.5			2.5		HOODS ITEM 1 & 14
BAIN MARIE ITEM 12	4		7		15	15						SPARE
					25	30						
		20			40	40	16.5					
DISWASHING MACHINE ITEM 56	10		20		35	34		16.5		10		CONVECTION OVEN ITEM 5
				20	35	30				16.5		
		31.5			35	25	5.5					
OVEN ITEM 81	10		31.5		35	40		1.5			6	WALK-IN FREEZER ITEM 65
				31.5	35	35				1.5		
		7			35	25	2					
WALK-IN CHILLER ITEM 63	6		1		35	40		2			4	PELLER ITEM 29
				7	35	40			2			
		1.5			35	35						
WALK-IN COLD ROOM ITEM 67	6		1.5		35	35						SPARE
				1.5	35	35						
		7			35	35						
HEATED COUNTER ITEM 13	4		7		35	35						MIXER ITEM 73
				7	35	35						
SUBTOTALS (AMPS)		73	79.5	56.5			29	33	30			
TOTAL AMPS (CONNECTED)		29	33	30		200/250		AMPS TRIP/FRAME				
		114	93.5	96.5								

TOTAL CONNECTED LOAD KW		LIGHTING	MOTORS	A.OUTLET	MISC.	TOTAL
	CONN. KVA	-		-	69.00	69.00
	DEM. FACTOR	-		-	0.8	
	DEMAND KVA	-		-	55.3	55.3



PDP/L-B2
(30 WAY)



PDP/K-B2
(60 WAY)

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:

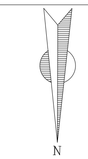
REHABILITATION OF GRAND SERAIL

CODE No: L1202

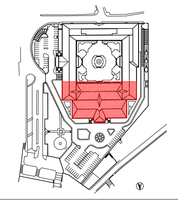
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:



SCALE

1/100

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

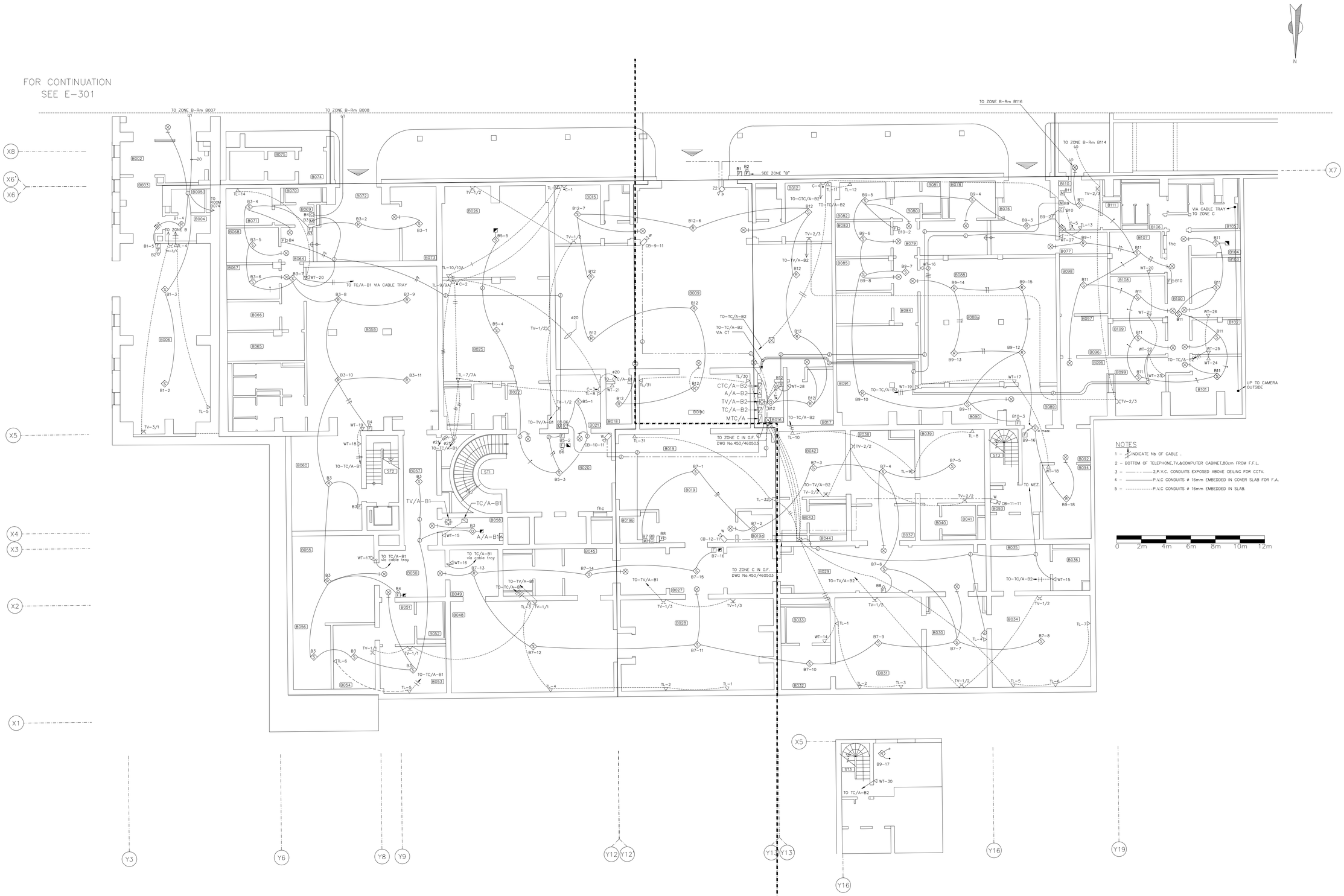
APPROVED BY :AC

SHEET TITLE

Basement & GF Zone A Right Wing-Power Layout

SHEET NO. L1202-CD-E-221-A1

Revision NO. 00



NOTES

1 – INDICATE Nb OF CABLE .
2 – BOTTOM OF TELEPHONE,TV,&COMPUTER CABINET,80cm FROM F.F.L.
3 – 2,P.V.C. CONDUITS EXPOSED ABOVE CEILING FOR CCTV.
4 – P.V.C CONDUITS ø 16mm EMBEDDED IN COVER SLAB FOR F.A.
5 – P.V.C CONDUITS ø 16mm EMBEDDED IN SLAB.

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

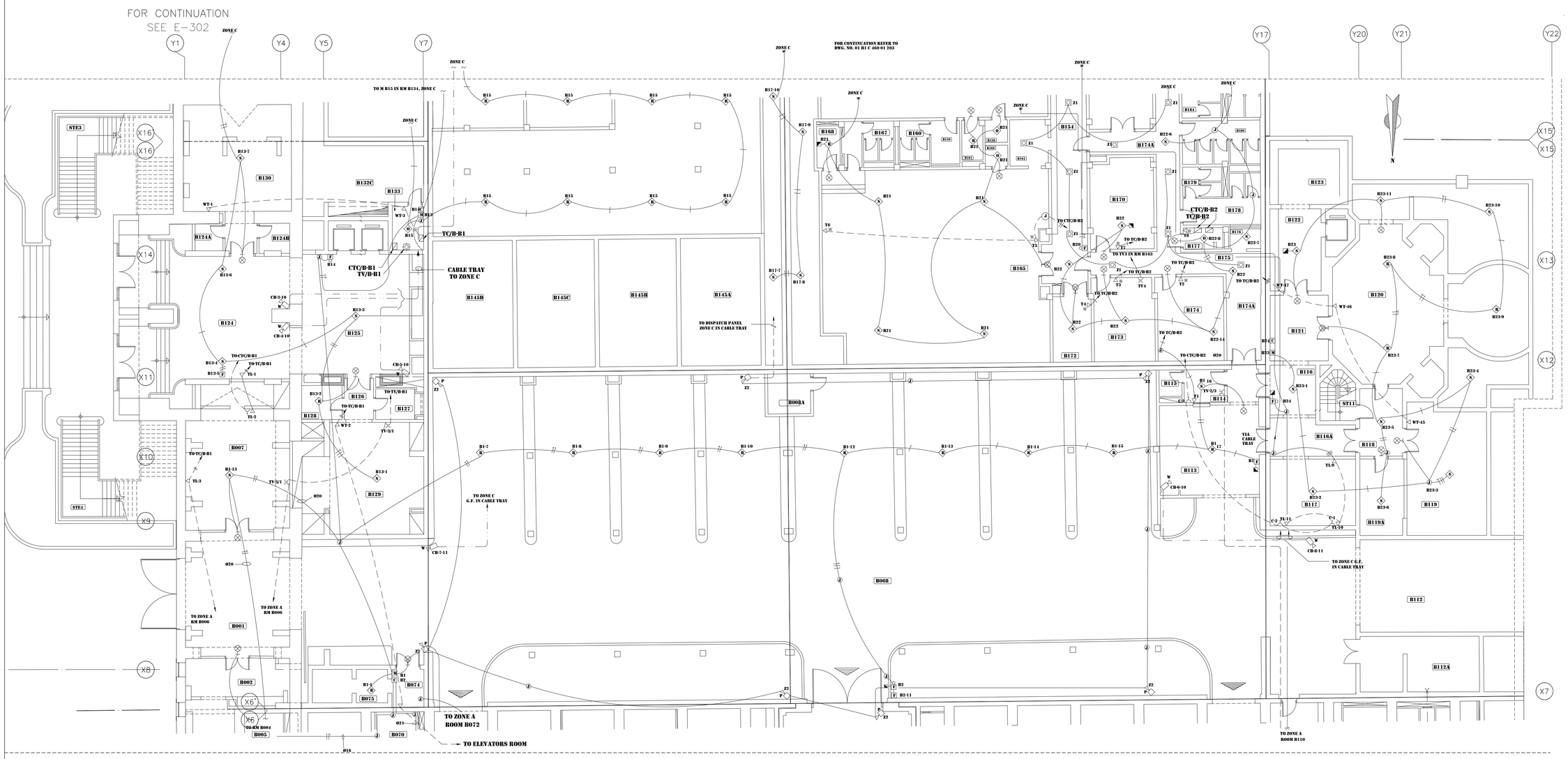
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Basement Floor Zone A
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-300-A1	00



NOTES

1 - INDICATE NR OF CABLE .

2 - BOTTOM OF TELEPHONE,TV,&COMPUTER CABINET,80CM FROM F.F.L.

3 - ALL CONDUITS Ø16MM UNLESS OTHERWISE INDICATED

4 - CONDUITS EMBEDDED IN CEILING SLAB

5 - CONDUITS FOR TEL. & COMPUTER SYSTEM EMBEDDED IN FLOOR SLAB

6 - CONDUITS FOR CCTV SYSTEM (PVC EXPOSED ABOVE FALSE CEILING)

7 - PVC CONDUITS EXPOSED BELOW RAISED FLOOR

8 - PVC CONDUITS EXPOSED FOR TV ABOVE FALSE CEILING

9 - 2X1.5MM²

10 - 2X1.5MM² : 1X1.5MM² : 2X2.5MM²

OWNER NAME:

CLIENT:

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT OFFICE :

A.CHEHAB architects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.CHEHAB-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

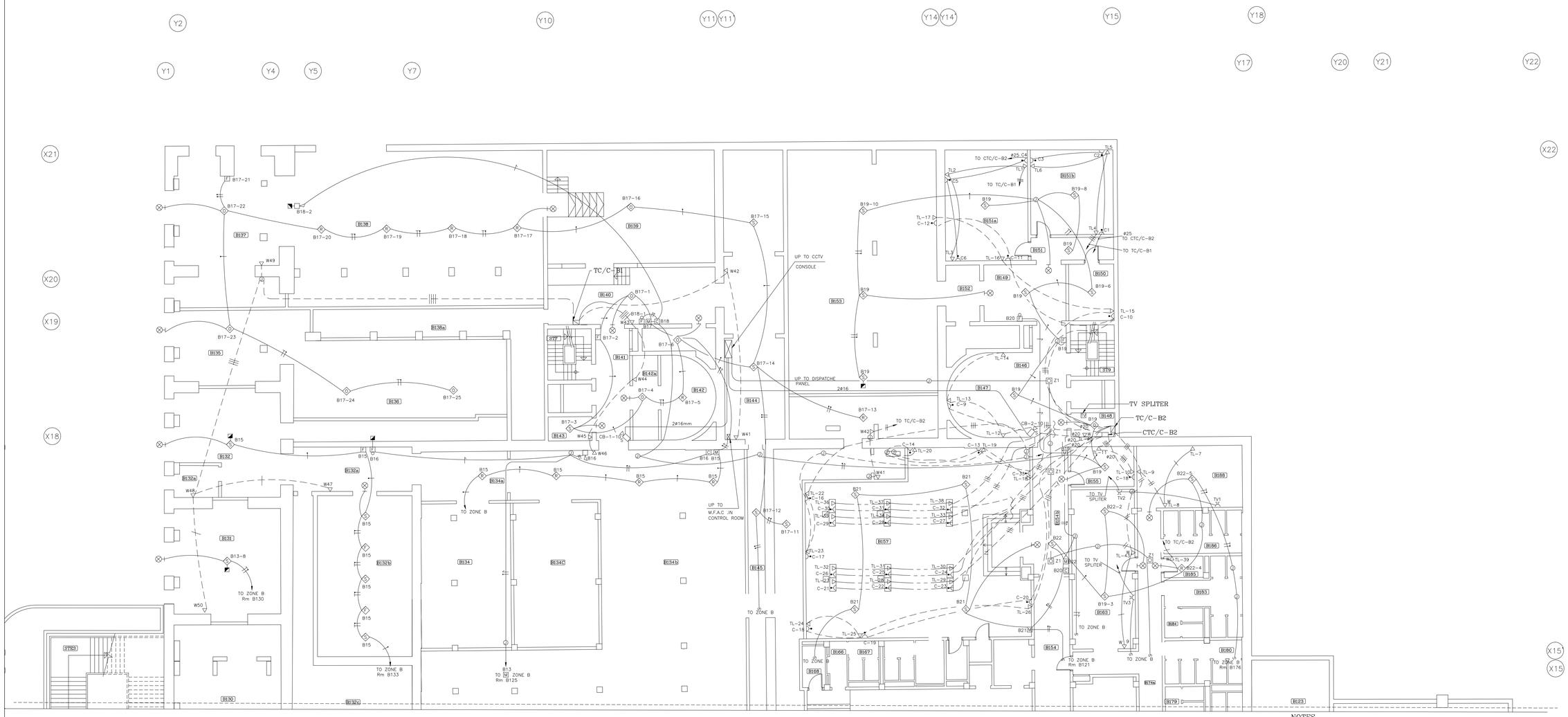
Basement Floor Zone B
Low Current Layout

SHEET NO.

L1202-CD-E-301-A1

Revision NO.

00



FOR CONTINUATION
SEE 301

NOTES

1 - SLACHES INDICATE THE No. OF TELEPHONE CABLES- EACH CABLE HAVING No. OF PAIRS AS SPECIFIED
2 - BOTTOM OF TELEPHONE,TV,&COMPUTER CABINET,80cm FROM F.F.L.
3 - ALL CONDUITS ø16mm UNLESS OTHERWISE INDICATED
4 - PVC CONDUIT ø16mm EMBEDDED IN CEILING
5 - CONDUITS FOR TEL. & COMPUTER SYSTEM EMBEDDED IN SLAB
6 - PVC CONDUITS EXPOSED BELOW RAISED FLOOR
7 - 2x1.5mm²
8 - : 2x1.5mm² ; : 1x1.5mm² ; : 2x2.5mm²

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

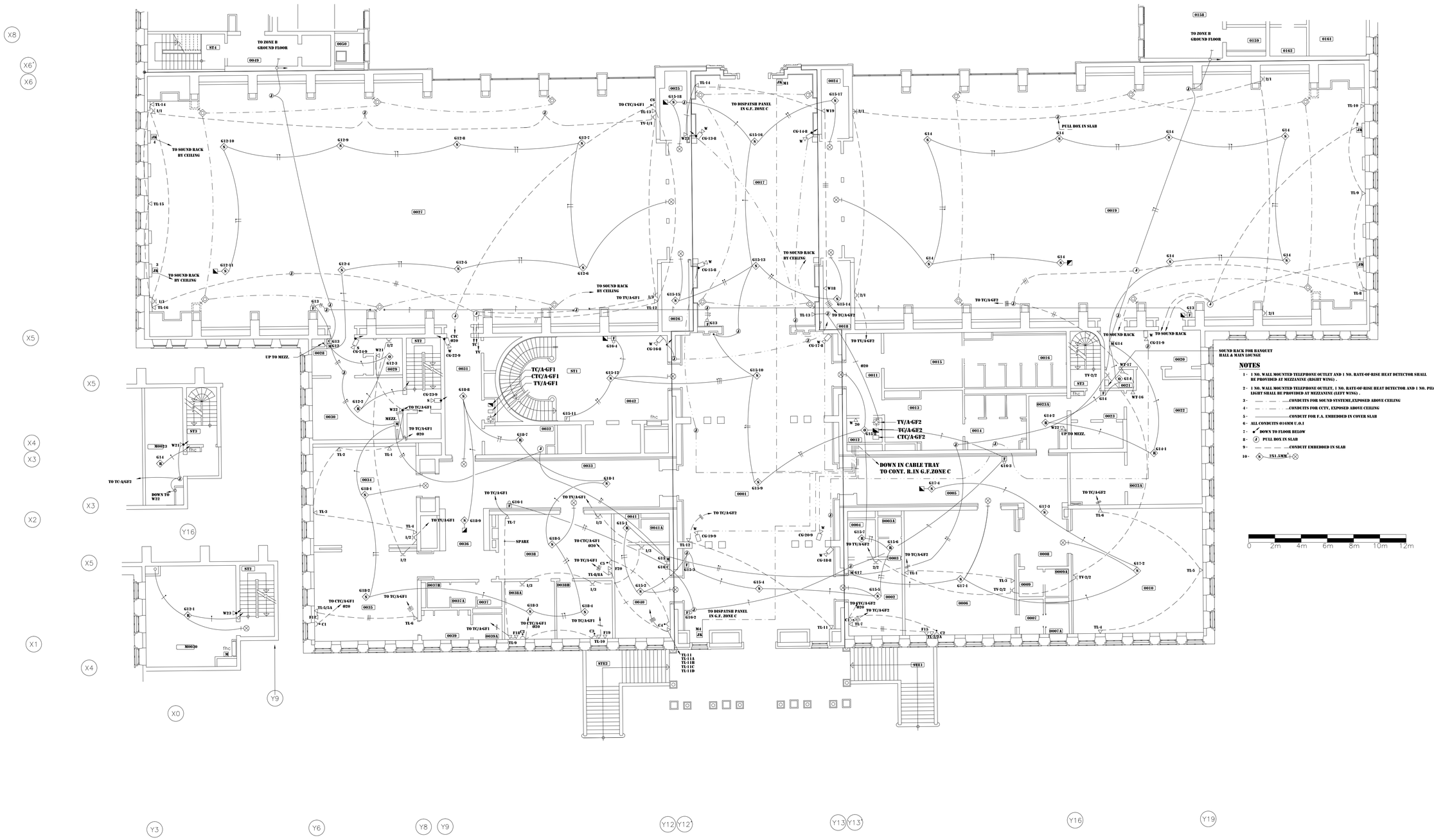
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Zone C
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-302-A1	00

FOR CONTINUATION
SEE E-304



NOTES

1 - 1 NO. WALL MOUNTED TELEPHONE OUTLET AND 1 NO. RATE-OF-RISE HEAT DETECTOR SHALL BE PROVIDED AT MEZZANINE (RIGHT WING) .

2 - 1 NO. WALL MOUNTED TELEPHONE OUTLET, 1 NO. RATE-OF-RISE HEAT DETECTOR AND 1 NO. PILOT LIGHT SHALL BE PROVIDED AT MEZZANINE (LEFT WING) .

3 - ——— ——— ———CONDUITS FOR SOUND SYSTEME, EXPOSED ABOVE CEILING

4 - ——— ——— ———CONDUITS FOR CCTV, EXPOSED ABOVE CEILING

5 - ——————————CONDUIT FOR F.A. EMBEDDED IN COVER SLAB

6 - ALL CONDUITS 01×50M U.O.!

7 - DOWN TO FLOOR BELOW

8 - PULL BOX IN SLAB

9 - ——— ——— ———CONDUIT EMBEDDED IN SLAB

10 - 2X1.5MM

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

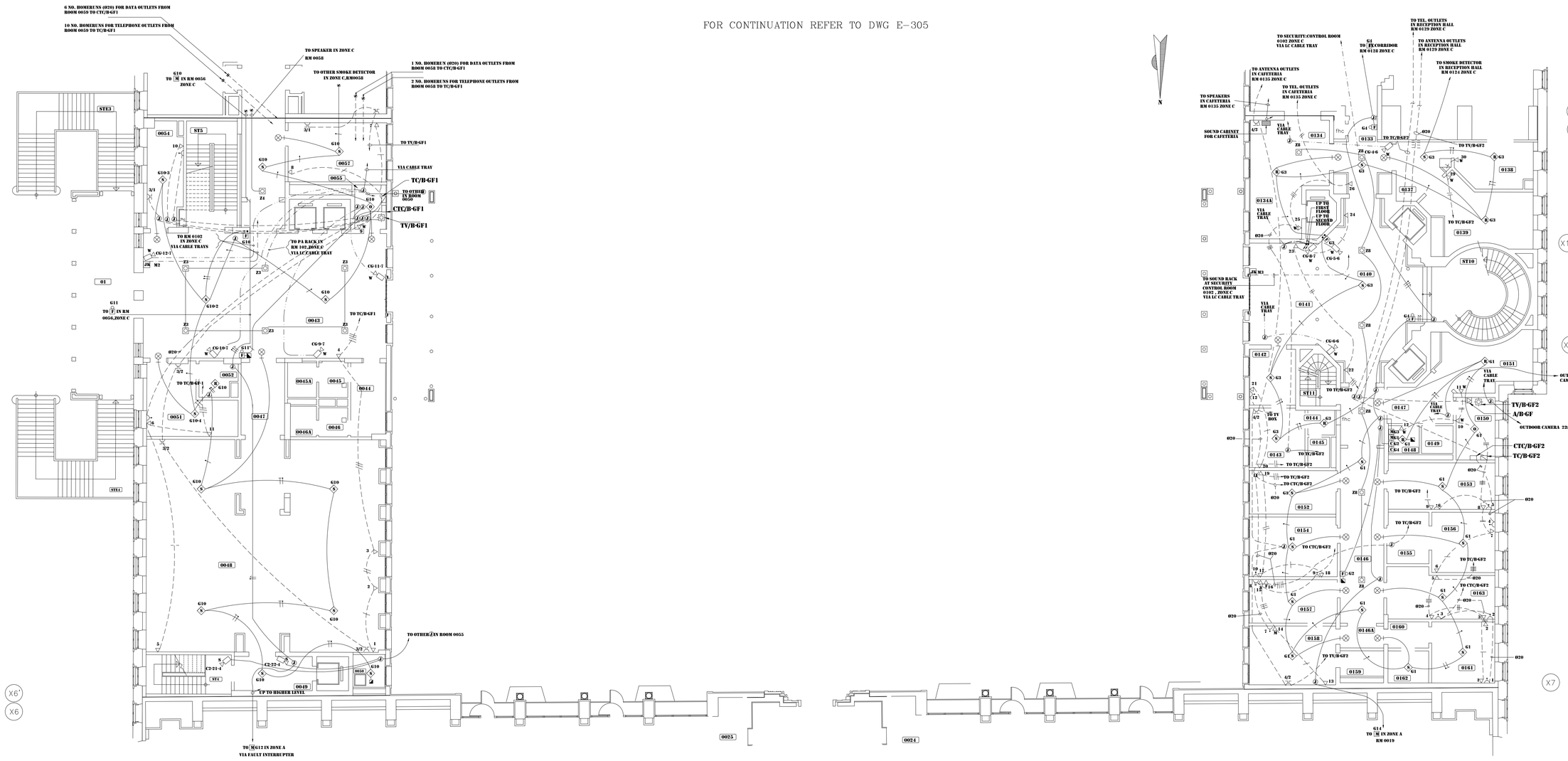
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Zone A
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-303-A1	00

FOR CONTINUATION REFER TO DWG E-305



FOR CONTINUATION REFER TO DWG E-303

NOTES

1 -UNLESS OTHERWISE INDICATED ALL CONDUITS ARE 16MM Ø PVC
2 - REFERS TO CONDUIT EMBEDDED IN GROUND SLAB.
3 - REFERS TO CONDUIT EMBEDDED IN CEILING SLAB.
4 - REFERS TO EXPOSED CABLES IN CABLE TRAY FOR C.C.T.V SYSTEM.
5 - REFERS TO EXPOSED CABLE IN CABLE TRAY FOR P.A SYSTEM
6 - SLACHES INDICATE THE NO. OF TELEPHONE CABLES - EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED
7 - PULL BOX
8 - 2X1.5MM²

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
Email: info@L.DKS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

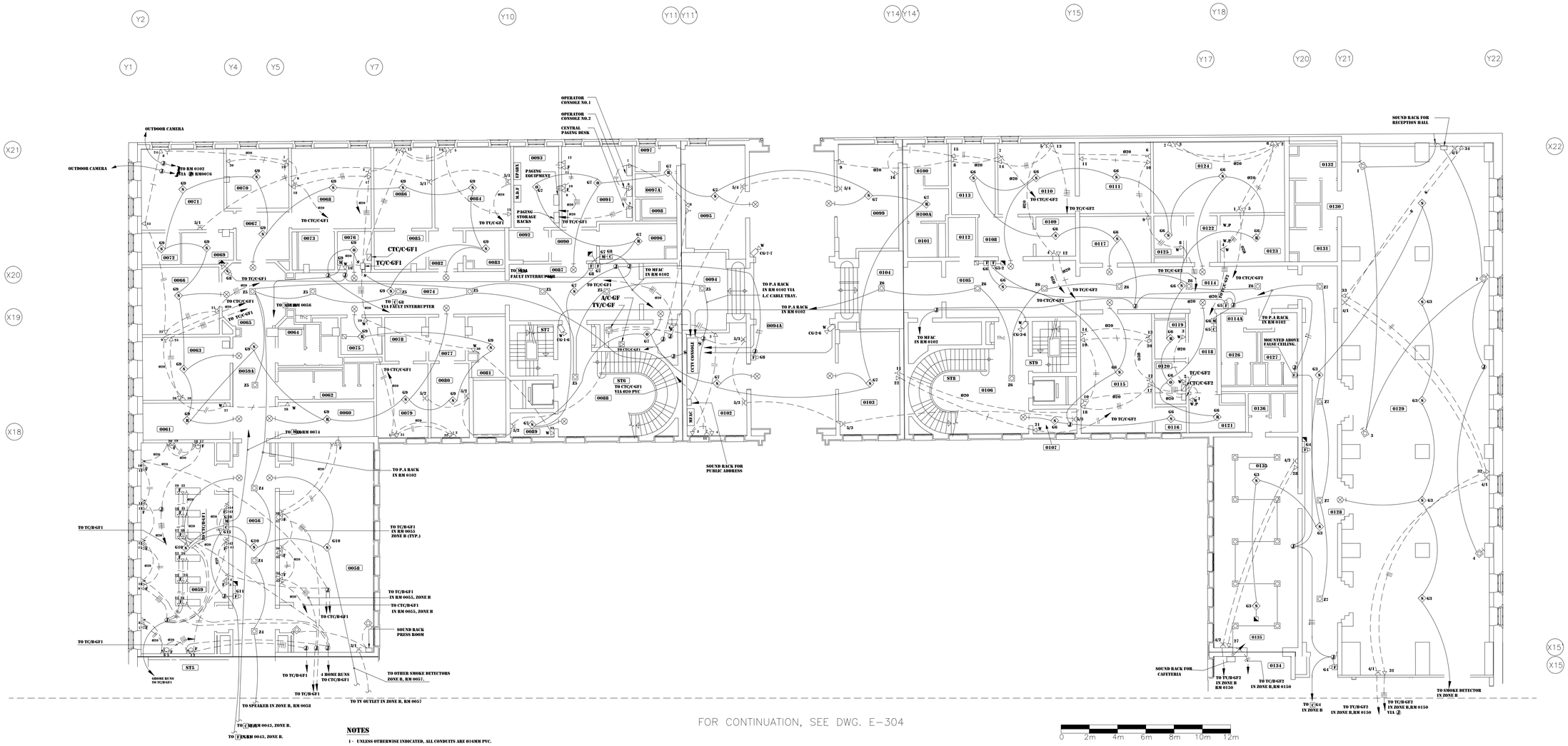
KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Zone B
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-304-A1	00



FOR CONTINUATION, SEE DWG. E-304

0 2m 4m 6m 8m 10m 12m

NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE 016MM PVC.
2 - — — — — SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.
3 - ———— SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.
4 - —#### SLASHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT.
5 - (J) REFER TO A PULL-BOX.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

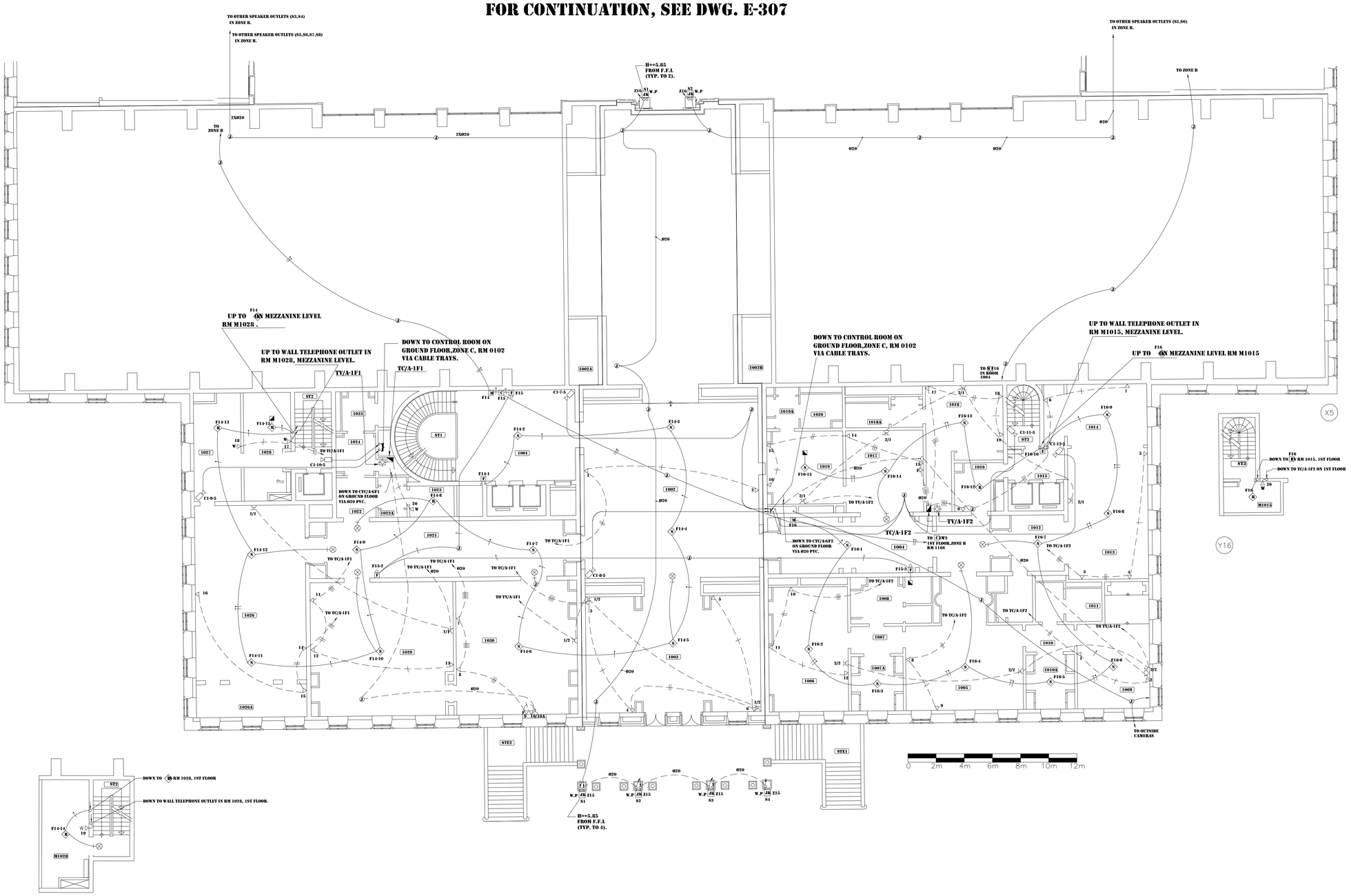
DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Zone C
Low Current Layout

SHEET NO. L1202-CD-E-305-A1

Revision NO. 00

FOR CONTINUATION, SEE DWG. E-307



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE Ø16MM PVC.
2 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.
3 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.
4 - SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED.
5 - PULL-BOX EMBEDDED IN CEILING SLAB.
6 - PULL-BOX, WALL MOUNTED.
7 - 2X1.5MM²

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.CHEHABarchitects.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

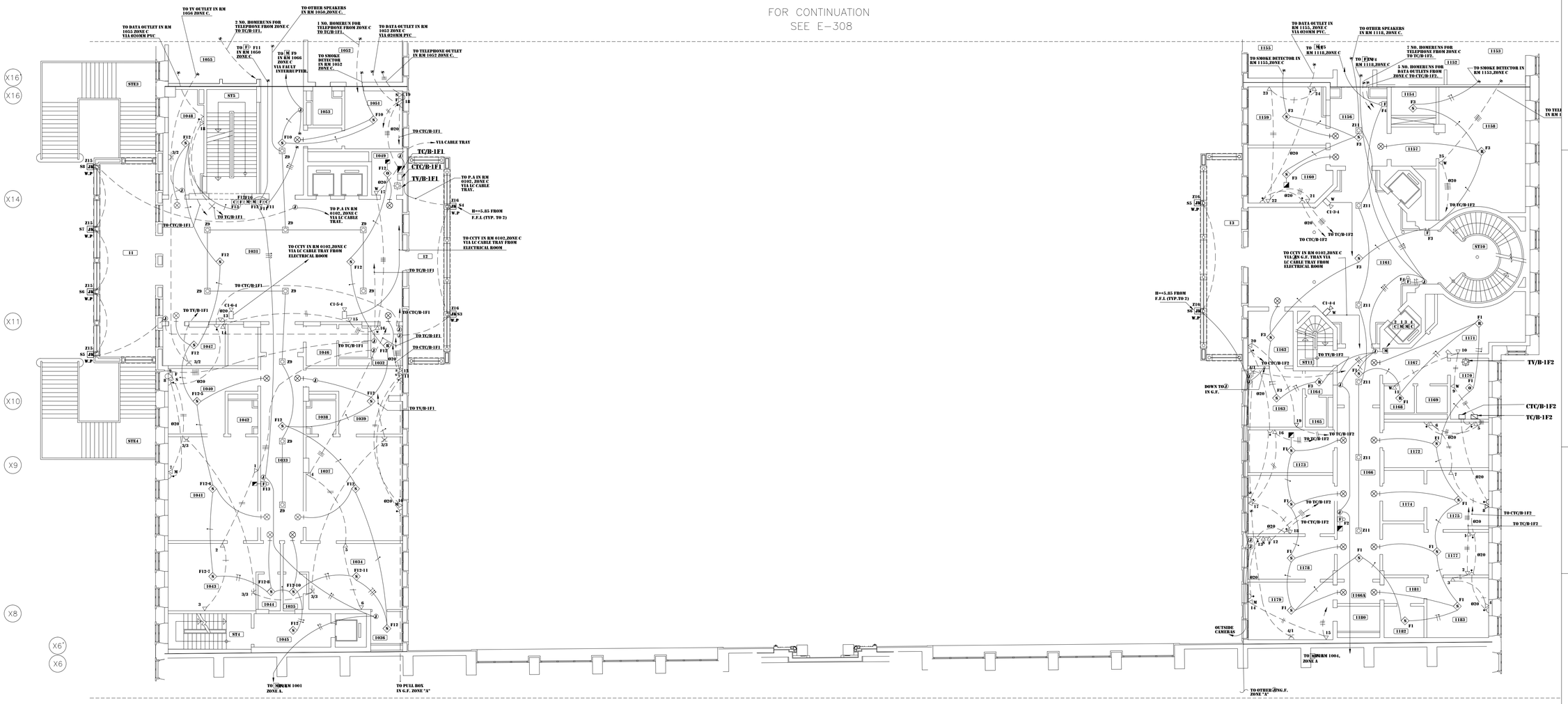
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
First Floor Zone A
Low Current Layout

SHEET NO. L1202-CD-E-306-A1

Revision NO. 00



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE Ø16MM PVC.

2 - — — — SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.

3 - ———— SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.

4 - —#— SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED.

5 - (J) PULL-BOX EMBEDDED IN CEILING SLAB.

6 - ⊢(J) PULL-BOX, WALL MOUNTED.

7 - (R) 2X1.5MM² ⊗

FOR CONTINUATION
SEE E-306

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

ACHEHAArchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LIKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

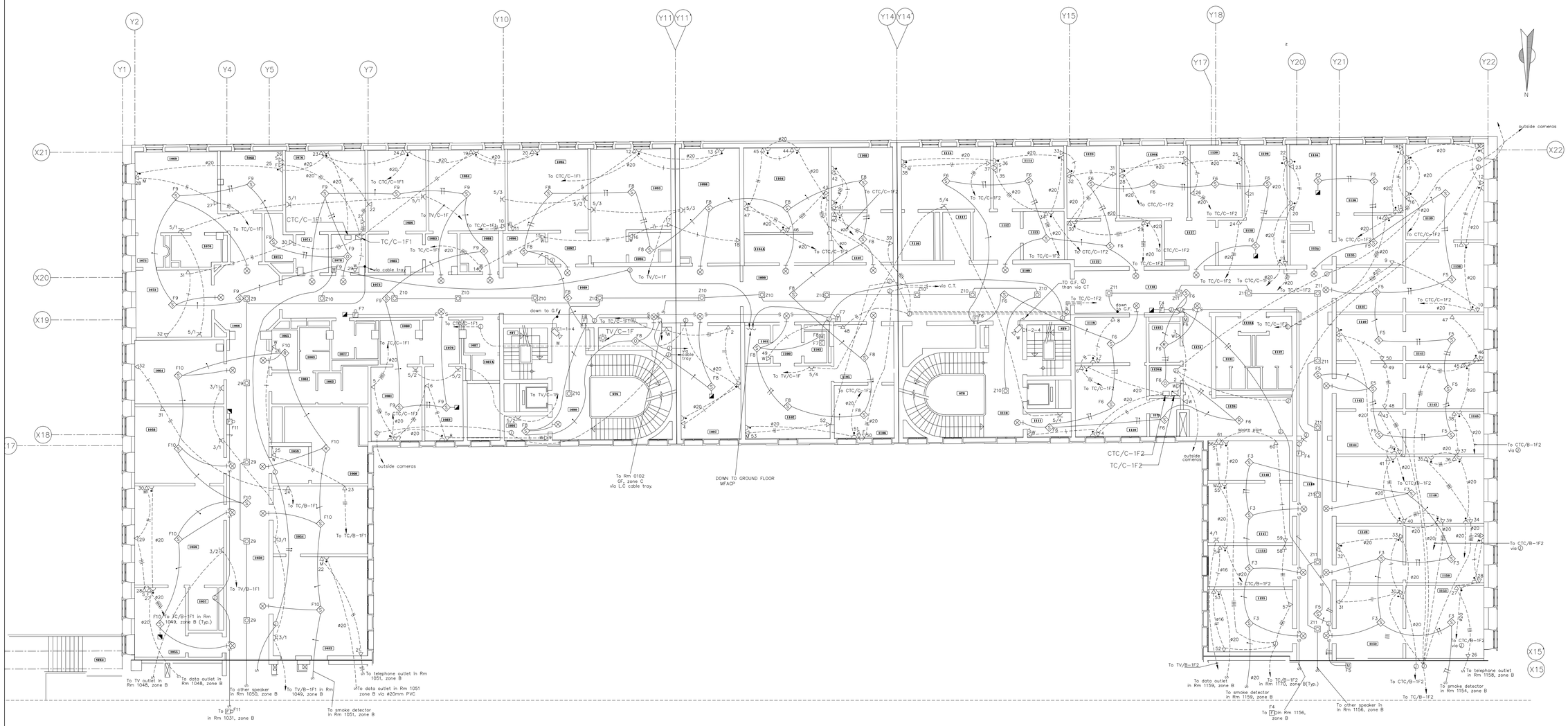
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

First Floor Zone B
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-307-A1	00



FOR CONTINUATION, SEE DWG. E-307

0 2m 4m 6m 8m 10m 12m

NOTES

1 – UNLESS OTHERWISE INDICATED ALL CONDUITS ARE 16mm ø PVC
2 – - - - - - - - - - - REFERS TO CONDUIT EMBEDDED IN GROUND SLAB.
3 – ———————— REFERS TO CONDUIT EMBEDDED IN CEILING SLAB.
4 – —#— SLACHES INDICATE THE No. OF TELEPHONE CABLES – EACH CABLE HAVING No. OF PAIRS AS SPECIFIED
5 – PULL BOX
6 – END OF LINE RESISTOR.
7 – 2x1.5mm²

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

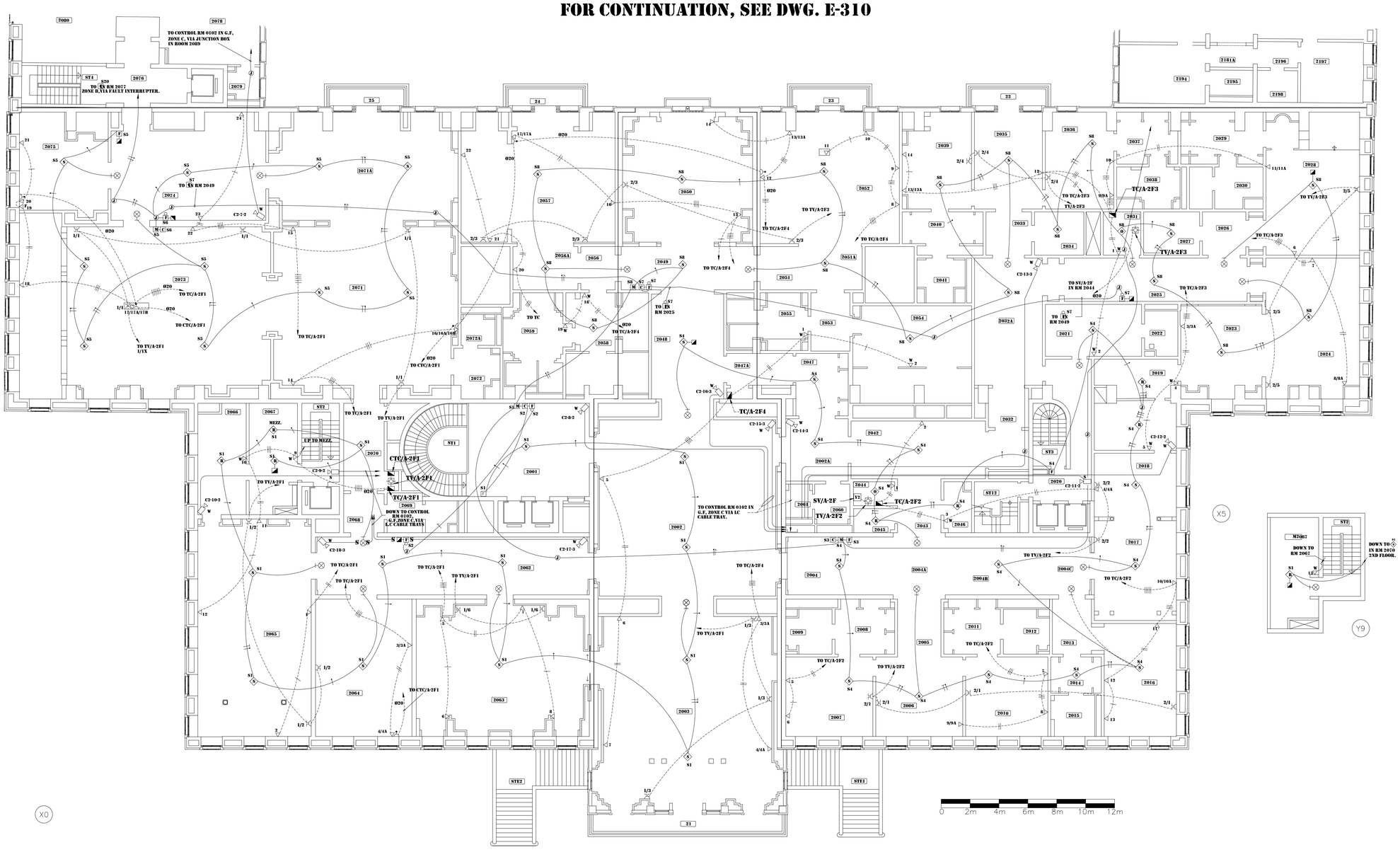
DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
First Floor Zone C
Low Current Layout

SHEET NO. L1202-CD-E-308-A1

Revision NO. 00

FOR CONTINUATION, SEE DWG. E-310



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE 016MM PVC.

2 - ----------SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.

3 - ----------SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.

4 - —||||— SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED.

5 - PULL-BOX EMBEDDED IN CEILING SLAB.

6 - PULL-BOX, WALL MOUNTED.

7 - END OF LINE RESISTOR.

8 - 2X1.5MM²

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DKS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

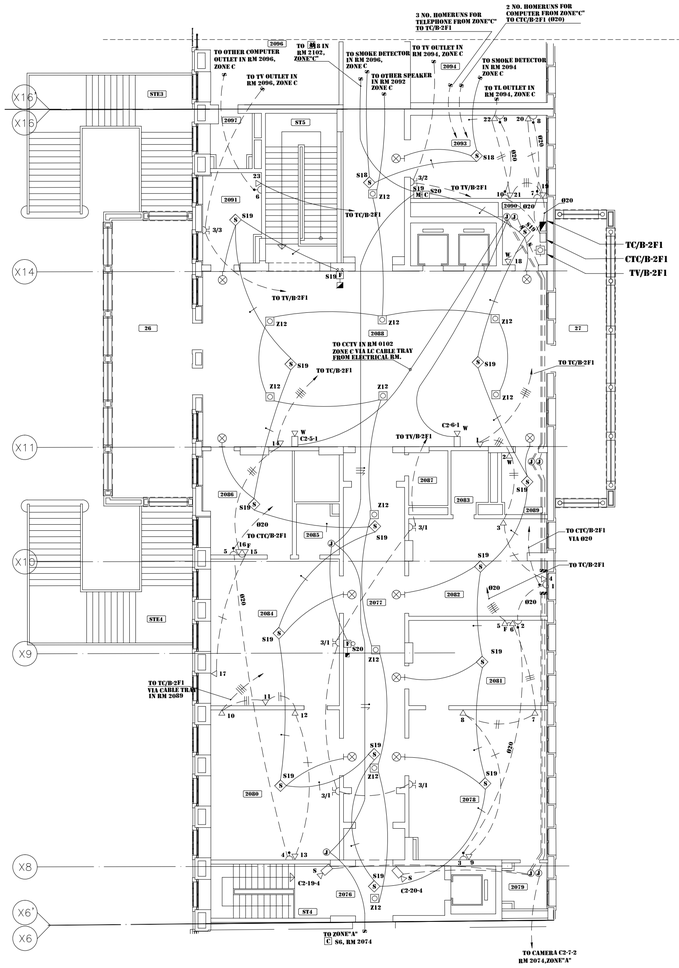
SHEET TITLE

Second Floor Zone A
Low Current Layout

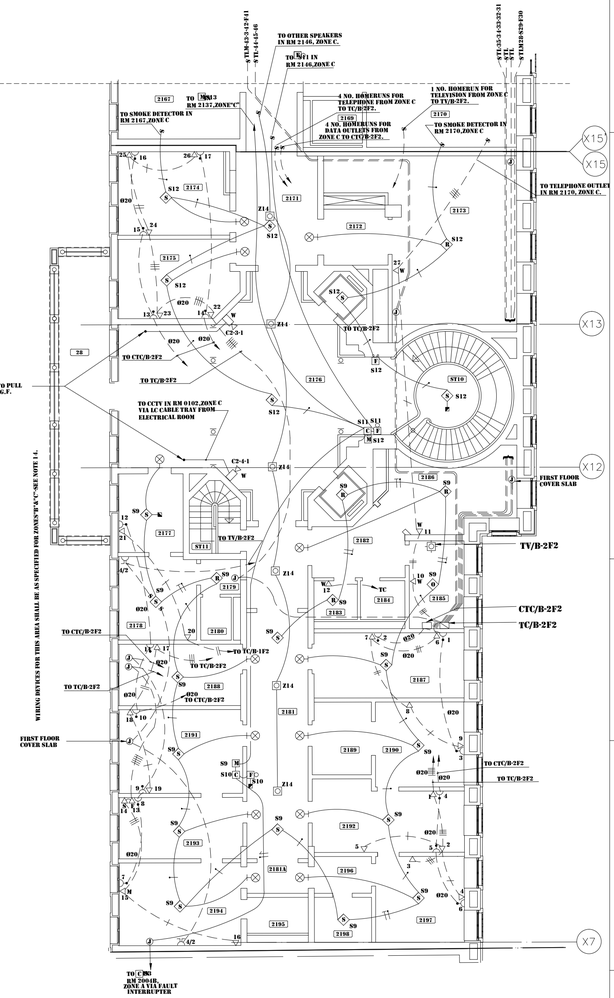
SHEET NO. L1202-CD-E-309-A1

Revision NO. 00

FOR CONTINUATION
SEE 311



FOR CONTINUATION
SEE E-309



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE Ø16MM PVC.
2 - — — — SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.
3 - ——— SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.
4 - SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED.
5 - PULL-BOX EMBEDDED IN CEILING SLAB.
6 - PULL-BOX, WALL MOUNTED.
7 - UNLESS OTHERWISE INDICATED ON THIS DWG, ALL WIRING DEVICES SHALL BE AS SPECIFIED FOR ZONE"A".
8 - 2X1.5MM²

0 2m 4m 6m 8m 10m 12m

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

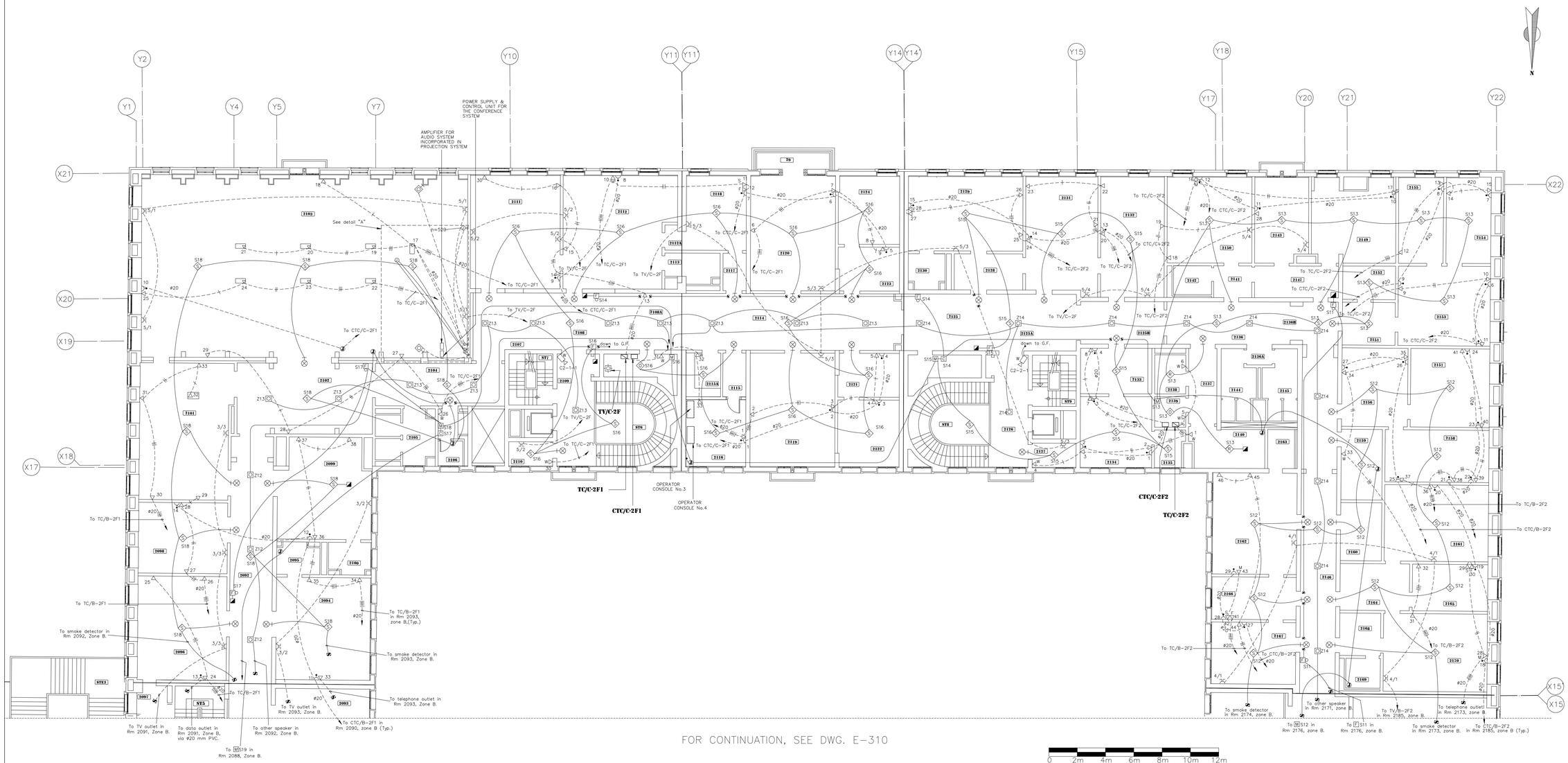
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Second Floor Zone B
Low Current Layout

SHEET NO. L1202-CD-E-310-A1

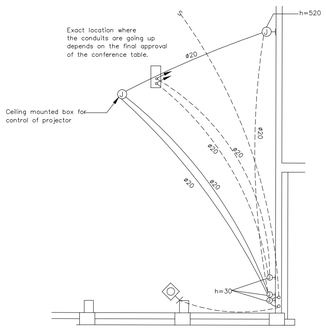
Revision NO. 00



FOR CONTINUATION, SEE DWG. E-310

NOTES

1 – UNLESS OTHERWISE INDICATED ALL CONDUITS ARE 16mm ø PVC
2 – – – – – – – – – – – – REFERS TO CONDUIT EMBEDDED IN GROUND SLAB.
3 – ———————— REFERS TO CONDUIT EMBEDDED IN CEILING SLAB.
4 – —#— SLACHES INDICATE THE No. OF TELEPHONE CABLES – EACH CABLE HAVING No. OF PAIRS AS SPECIFIED
5 – (J) PULL BOX, CEILING MOUNTED.
6 – (J)⊣ PULL BOX, WALL MOUNTED.
7 – ◥ END OF LINE RESISTOR.



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

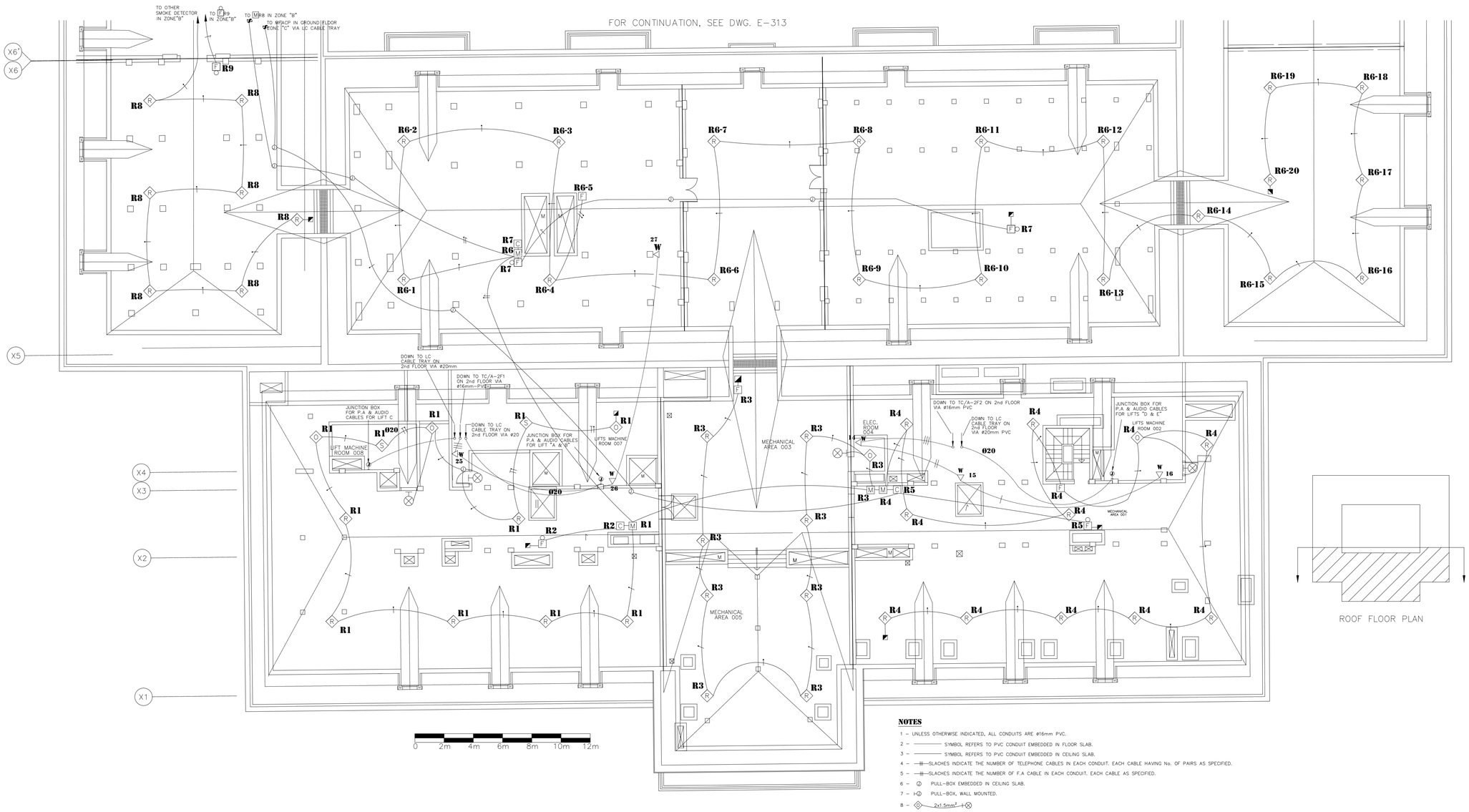
KEY PLAN:

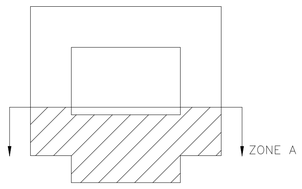
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Second Floor Zone C
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-311-A1	00





ROOF FLOOR PLAN

NOTES

1 – UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE ø16mm PVC.
2 – ———— SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.
3 – ———— SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.
4 – —#— SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT, EACH CABLE HAVING No. OF PAIRS AS SPECIFIED.
5 – —#— SLACHES INDICATE THE NUMBER OF F.A CABLE IN EACH CONDUIT, EACH CABLE AS SPECIFIED.
6 – (J) PULL-BOX EMBEDDED IN CEILING SLAB.
7 – ⊢(J) PULL-BOX, WALL MOUNTED.
8 – ◇—— 2x1.5mm² ——⊗

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE

Roof Floor Zone A
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-312-A1	00

NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE Ø16MM PVC.

2 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.

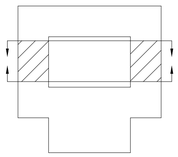
3 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.

4 - SLACHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING NO. OF PAIRS AS SPECIFIED.

5 - PULL-BOX EMBEDDED IN CEILING SLAB.

6 - PULL-BOX, WALL MOUNTED.

7 - 2X1.5MM



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

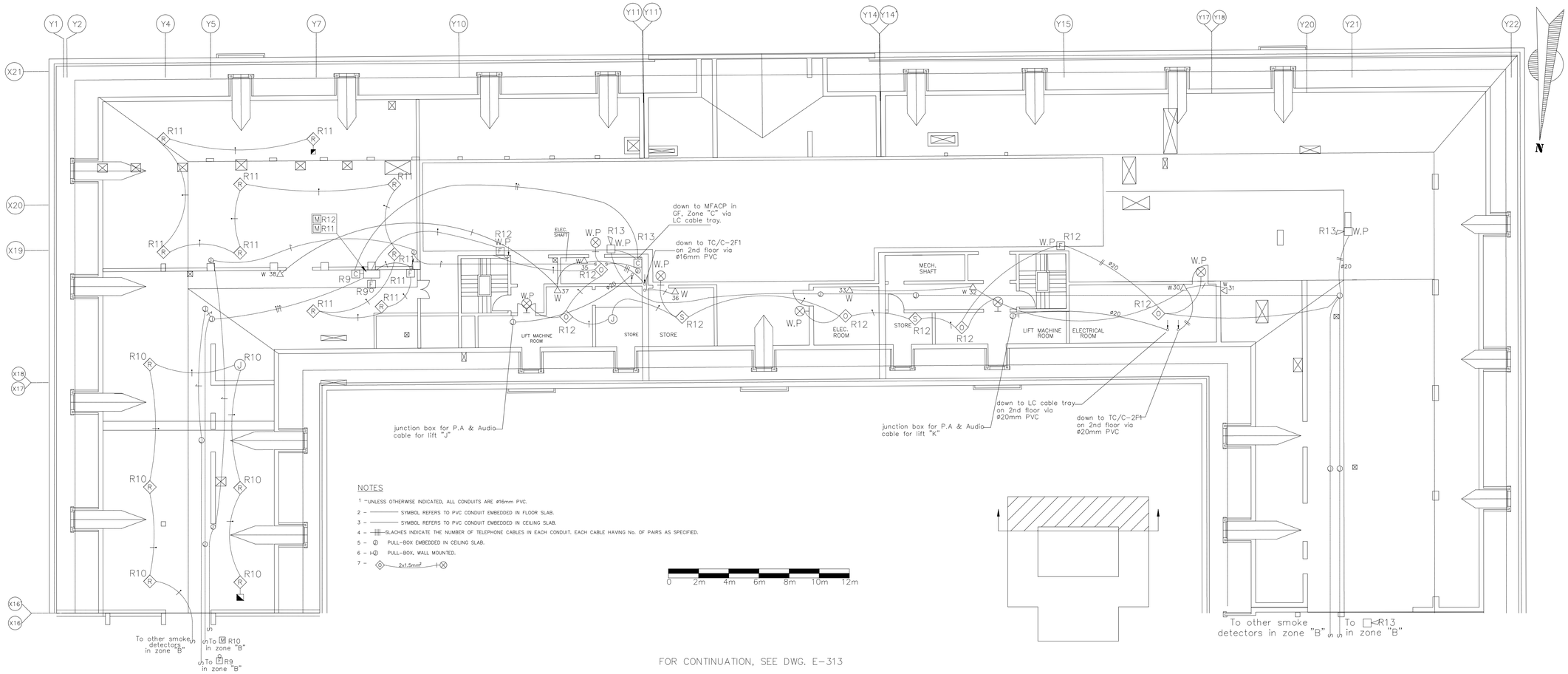
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Roof Floor Zone B
Low Current Layout

SHEET NO.	Revision NO.
L1202-CD-E-313-A1	00



NOTES

1 - UNLESS OTHERWISE INDICATED, ALL CONDUITS ARE ø16mm PVC.
2 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN FLOOR SLAB.
3 - SYMBOL REFERS TO PVC CONDUIT EMBEDDED IN CEILING SLAB.
4 - SLASHES INDICATE THE NUMBER OF TELEPHONE CABLES IN EACH CONDUIT. EACH CABLE HAVING No. OF PAIRS AS SPECIFIED.
5 - PULL-BOX EMBEDDED IN CEILING SLAB.
6 - PULL-BOX, WALL MOUNTED.
7 - 2x1.5mm²

FOR CONTINUATION, SEE DWG. E-313

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DRS-CD.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

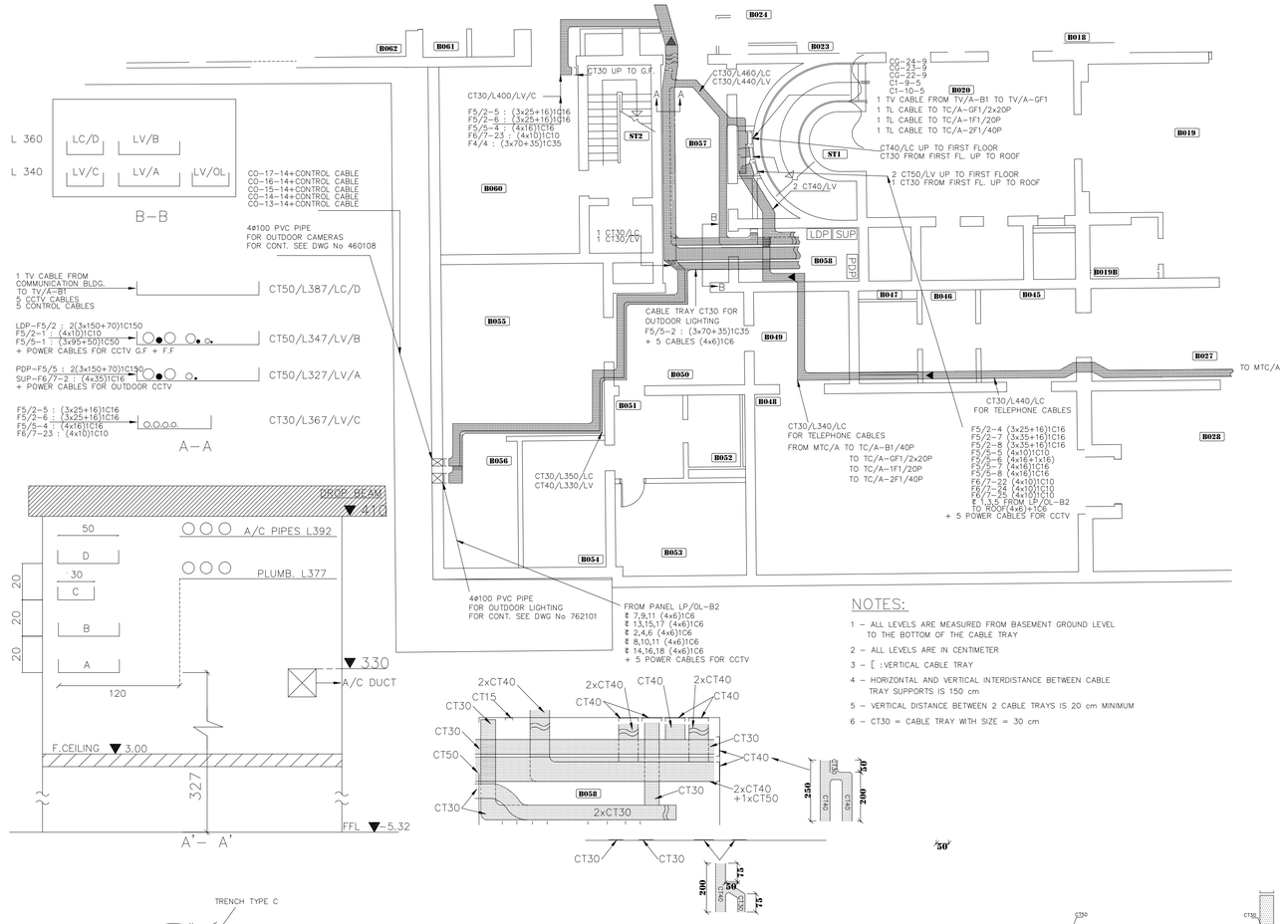
APPROVED BY :AC

SHEET TITLE

Roof Floor Zone C
Low Current Layout

SHEET NO. L1202-CD-E-314-A1

Revision NO. 00



NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

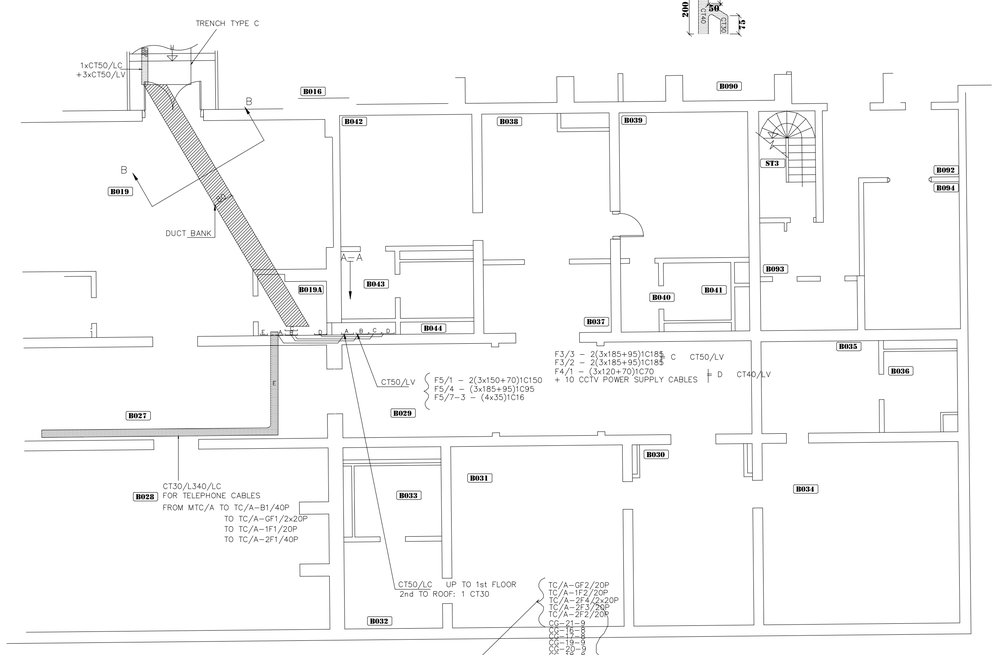
2 - ALL LEVELS ARE IN CENTIMETER

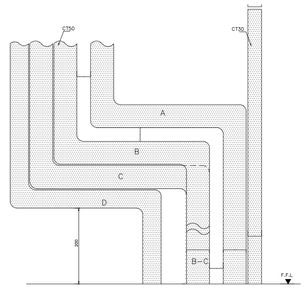
3 - [:VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm

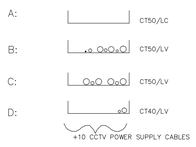
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM

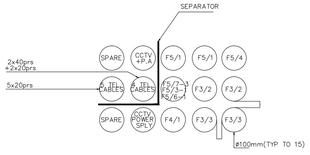
6 - CT30 = CABLE TRAY WITH SIZE = 30 cm





SECTION A-A





SECTION B-B

NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

2 - ALL LEVELS ARE IN CENTIMETER

3 - [:VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm

5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 cm

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

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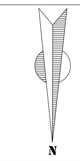
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202

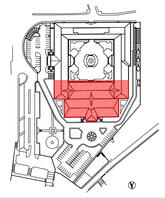
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:



SCALE

1/250

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

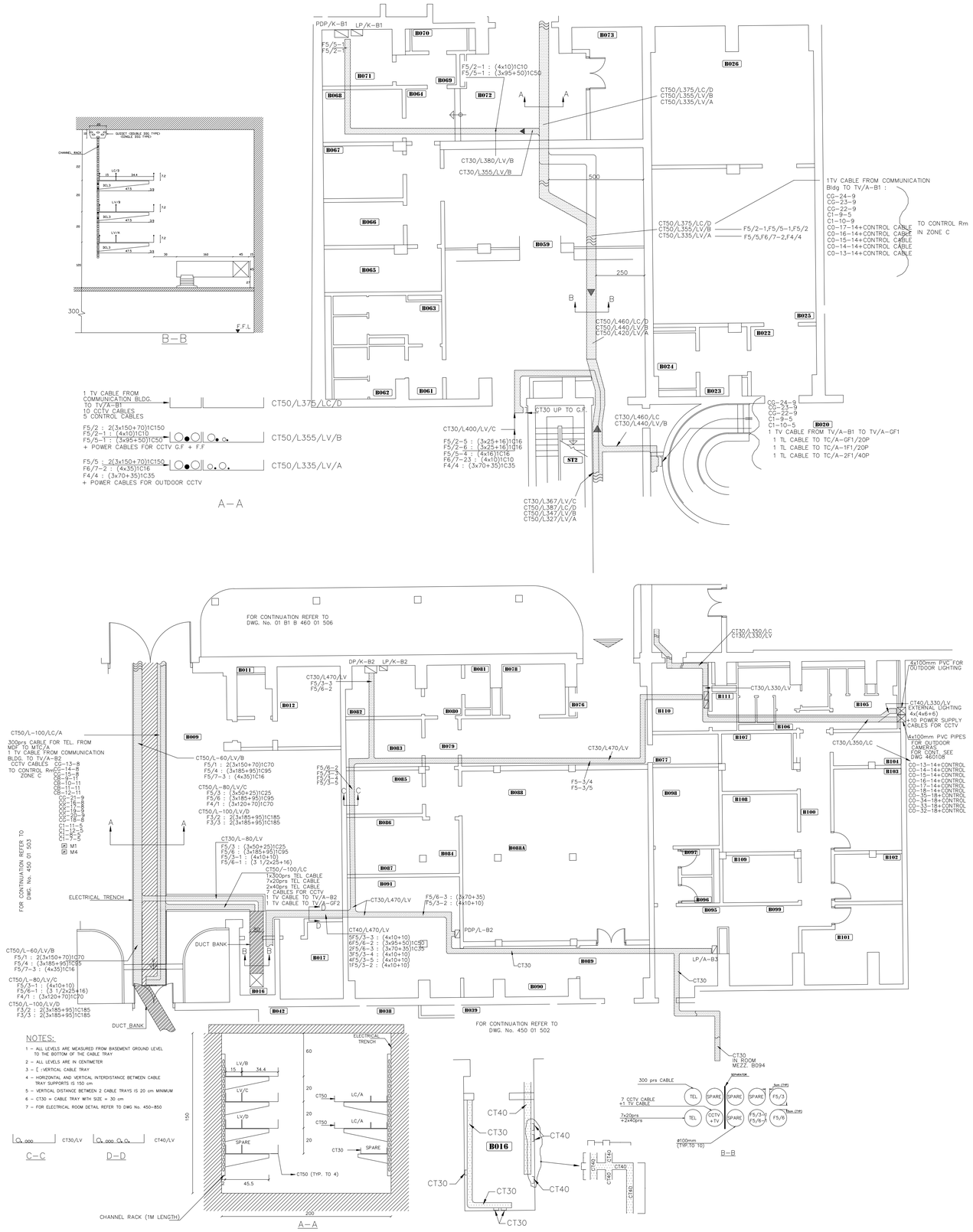
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Basement Floor Zone A
Cable Trays Layout Sec1&2

SHEET NO.	Revision NO.
L1202-CD-E-400-A1	00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHAB architects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE

1/250

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

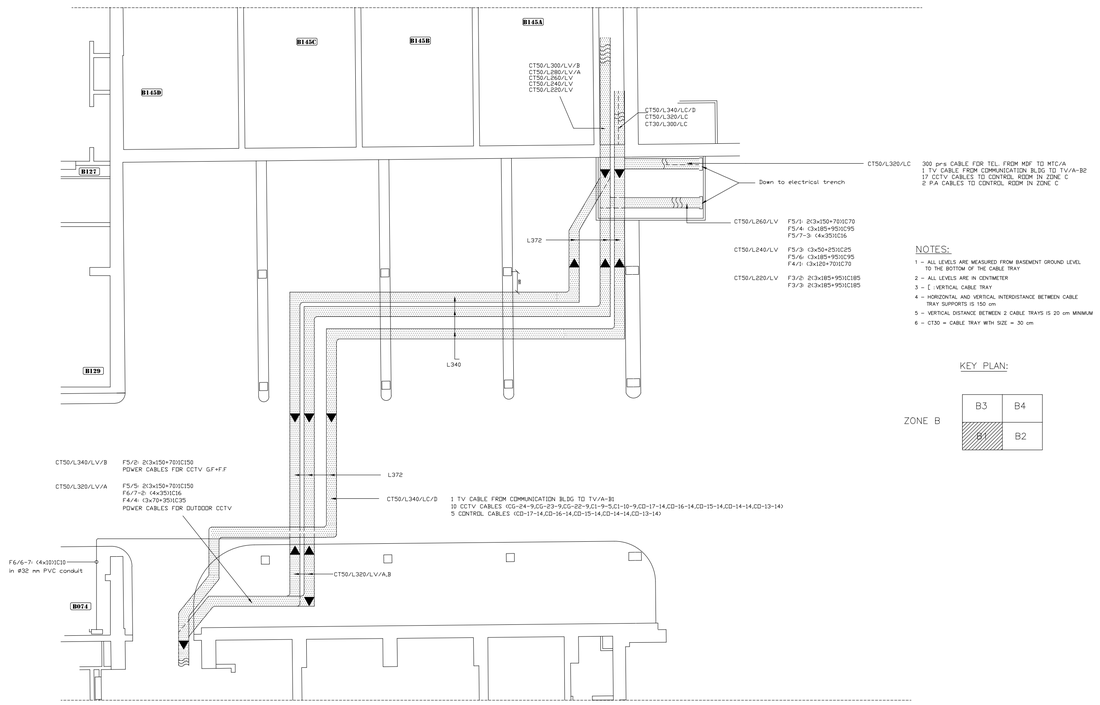
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Basement Floor Zone A Cable Trays Layout Sec3&4

SHEET NO.	Revision NO.
L1202-CD-E-401-A1	00



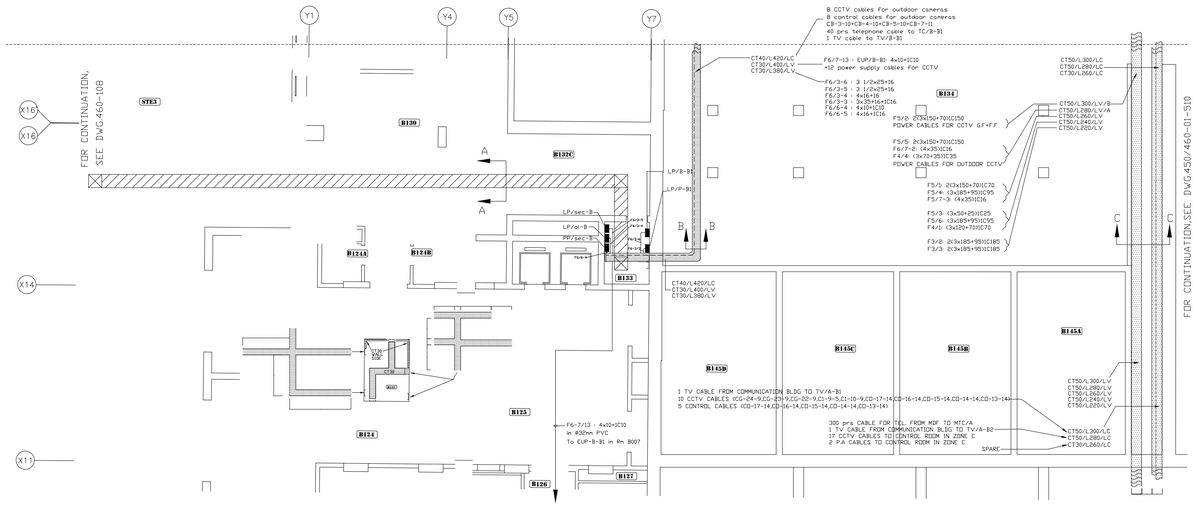
NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [:VERTICAL CABLE TRAY
4 – HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm

KEY PLAN:

ZONE B

B3	B4
B1	B2

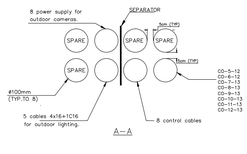


NOTES:

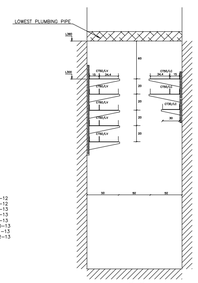
1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [:VERTICAL CABLE TRAY
4 – HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm

KEY PLAN:

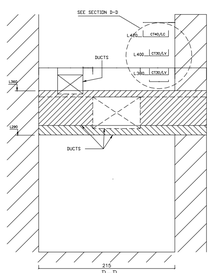
B3	B4
B1	B2



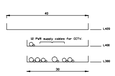
A–A



C–C



B–B



B–B

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

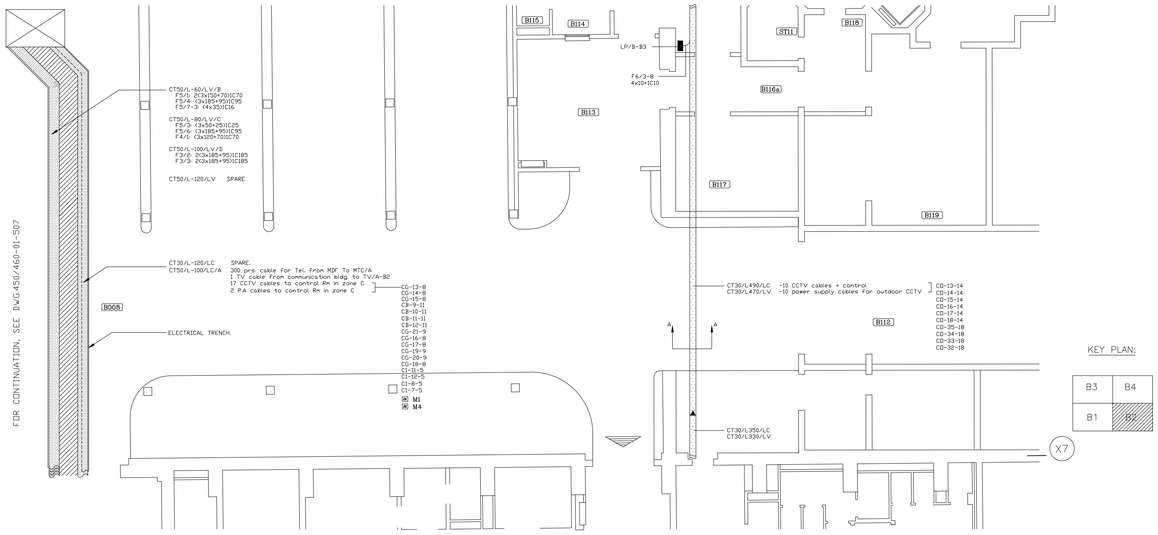
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Basement Floor Zone B
Cable Trays Layout Sec1&2

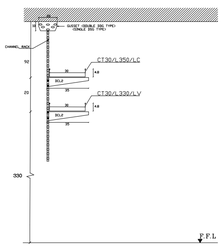
SHEET NO.
L1202-CD-E-402-A1

Revision NO.
00



KEY PLAN:

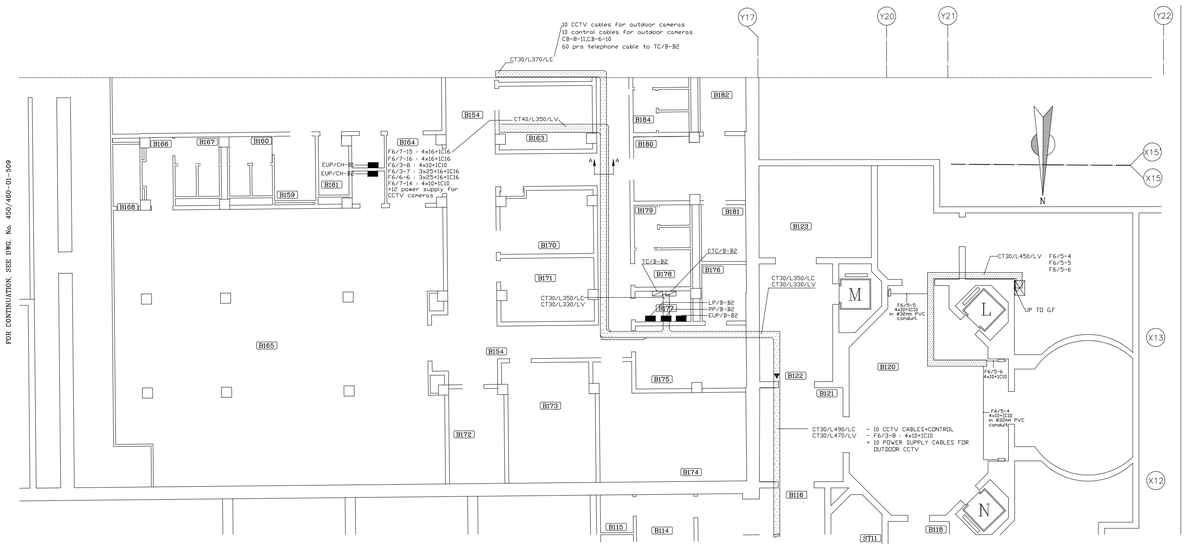
B3	B4
B1	B2



A–A

NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [: VERTICAL CABLE TRAY
4 – HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm



NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [: VERTICAL CABLE TRAY
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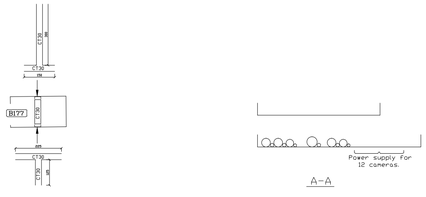
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm

KEY PLAN:

B3	B4
B1	B2



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L3RS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

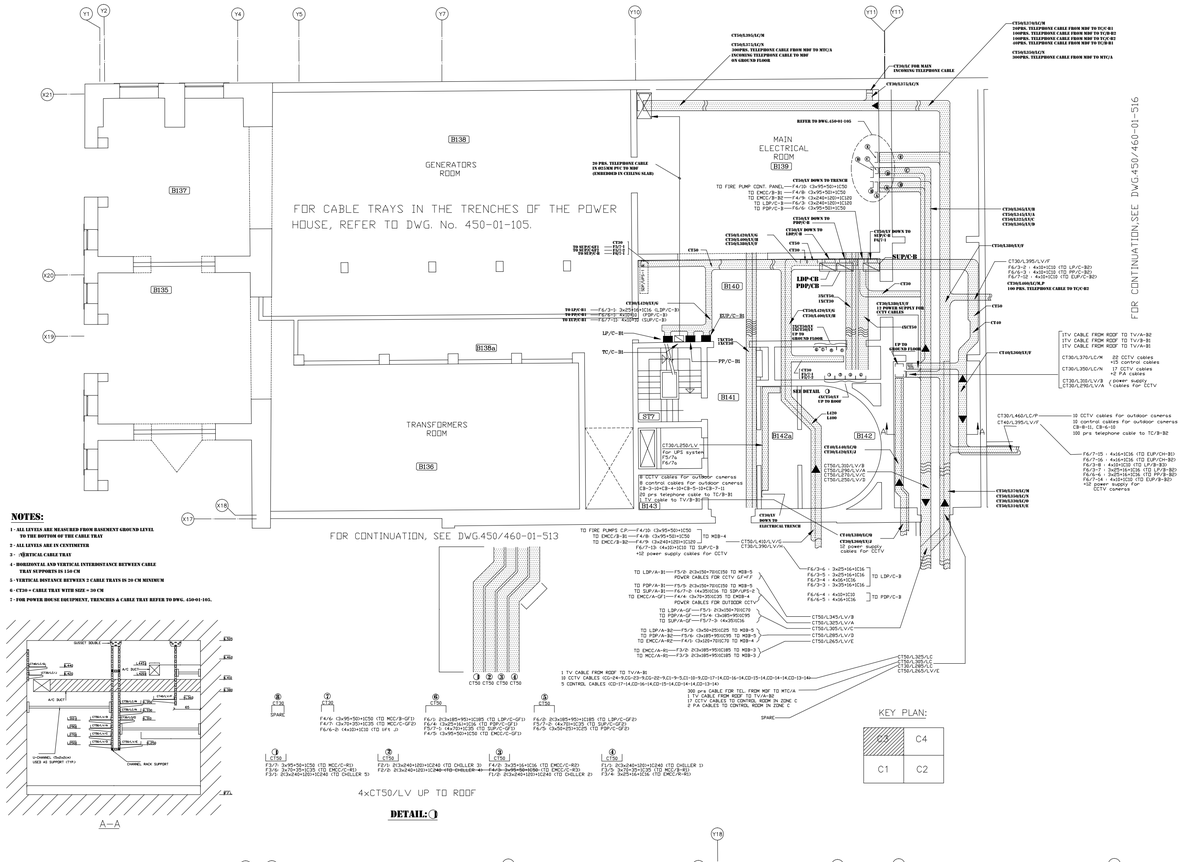
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Basement Floor Zone B
Cable Trays Layout SeC3&4

SHEET NO.
L1202-CD-E-403-A1

Revision NO.
00

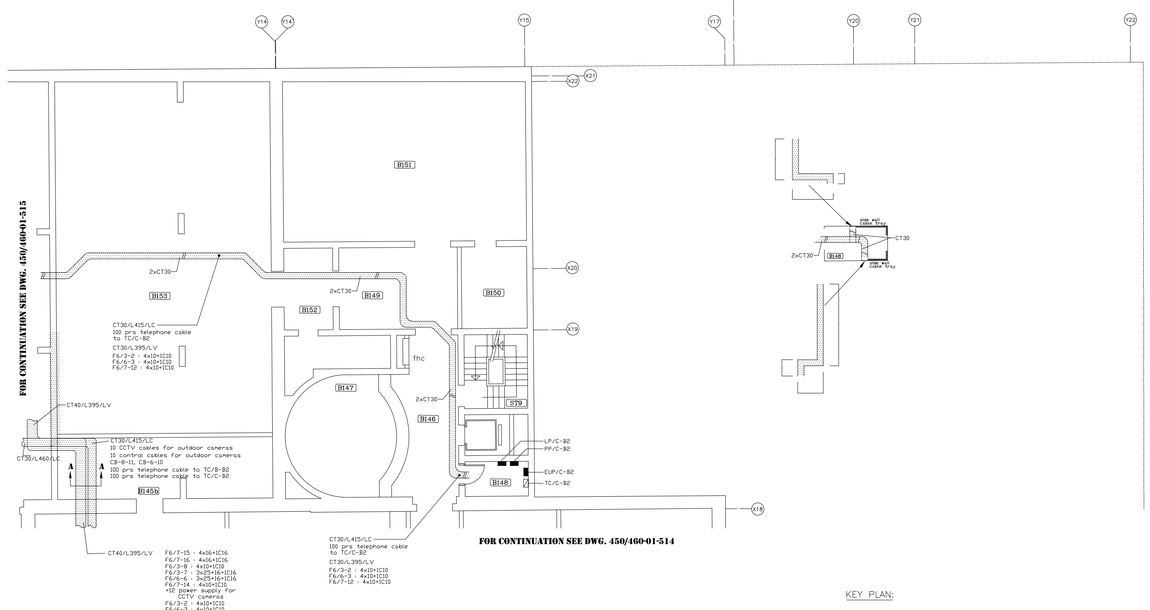


NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 - ALL LEVELS ARE IN CENTIMETER
3 - :VERTICAL CABLE TRAY
4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM
6 - CT30 = CABLE TRAY WITH SIZE = 30 CM
7 - FOR POWER HOUSE DEVIPMENT, TRENCHES & CABLE TRAY REFER TO DWG. 450-01-105.

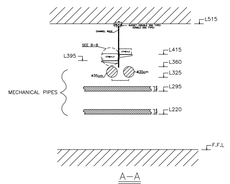
A—A

DETAIL: 1

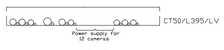


NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 - ALL LEVELS ARE IN CENTIMETER
3 - :VERTICAL CABLE TRAY
4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM
6 - CT30 = CABLE TRAY WITH SIZE = 30 CM



A—A



B—B

KEY PLAN:

C3	C4
C1	C2

OWNER NAME:

CLIENT:

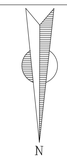
CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202

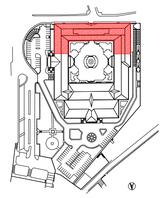
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:

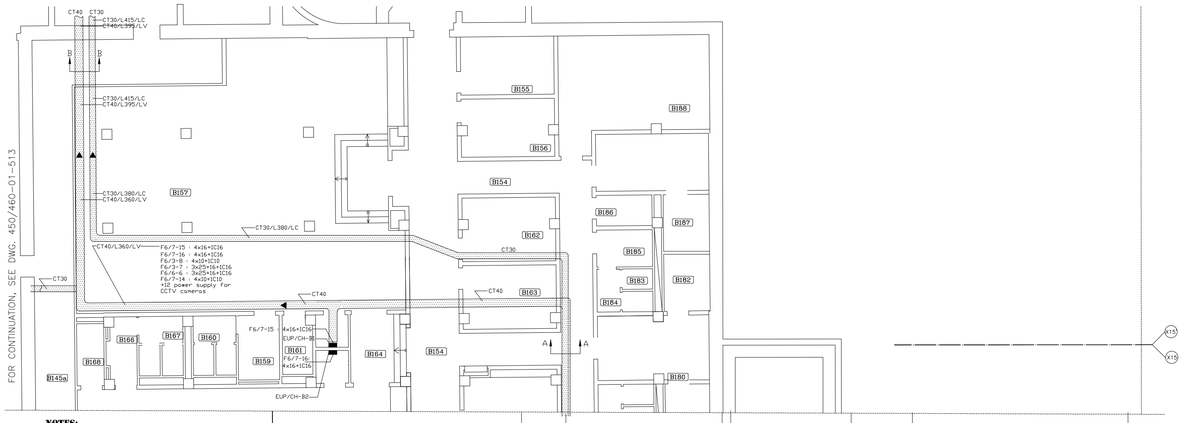


SCALE
1/150

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

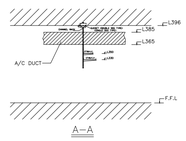
SHEET TITLE
Basement Floor Zone C
Cable Trays Layout Sec1&2

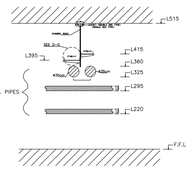
SHEET NO.	Revision NO.
L1202-CD-E-404-A1	00

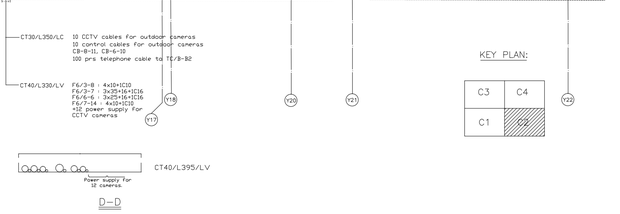


NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 - ALL LEVELS ARE IN CENTIMETER
3 - VERTICAL CABLE TRAY
4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM
6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

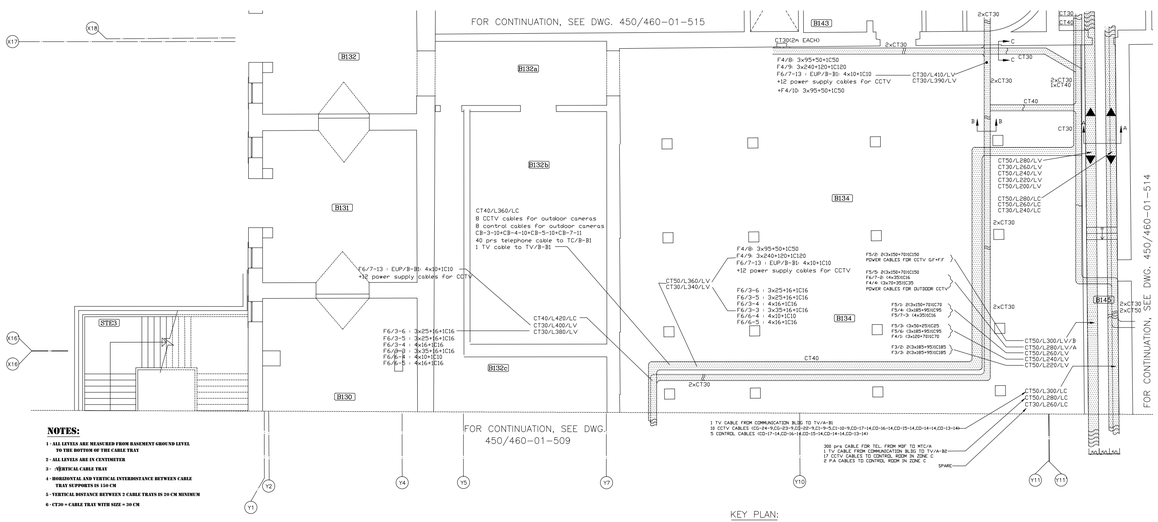






KEY PLAN:

C3	C4
C1	C2

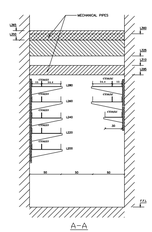


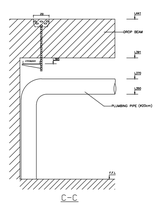
NOTES:

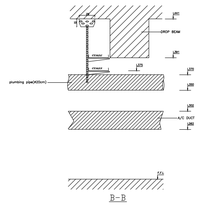
1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 - ALL LEVELS ARE IN CENTIMETER
3 - VERTICAL CABLE TRAY
4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM
6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

KEY PLAN:

C3	C4
C1	C2







OWNER NAME:

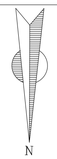
CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
Email: info@L.DRS-CD.com

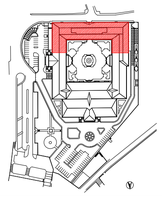
PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:



KEY PLAN:

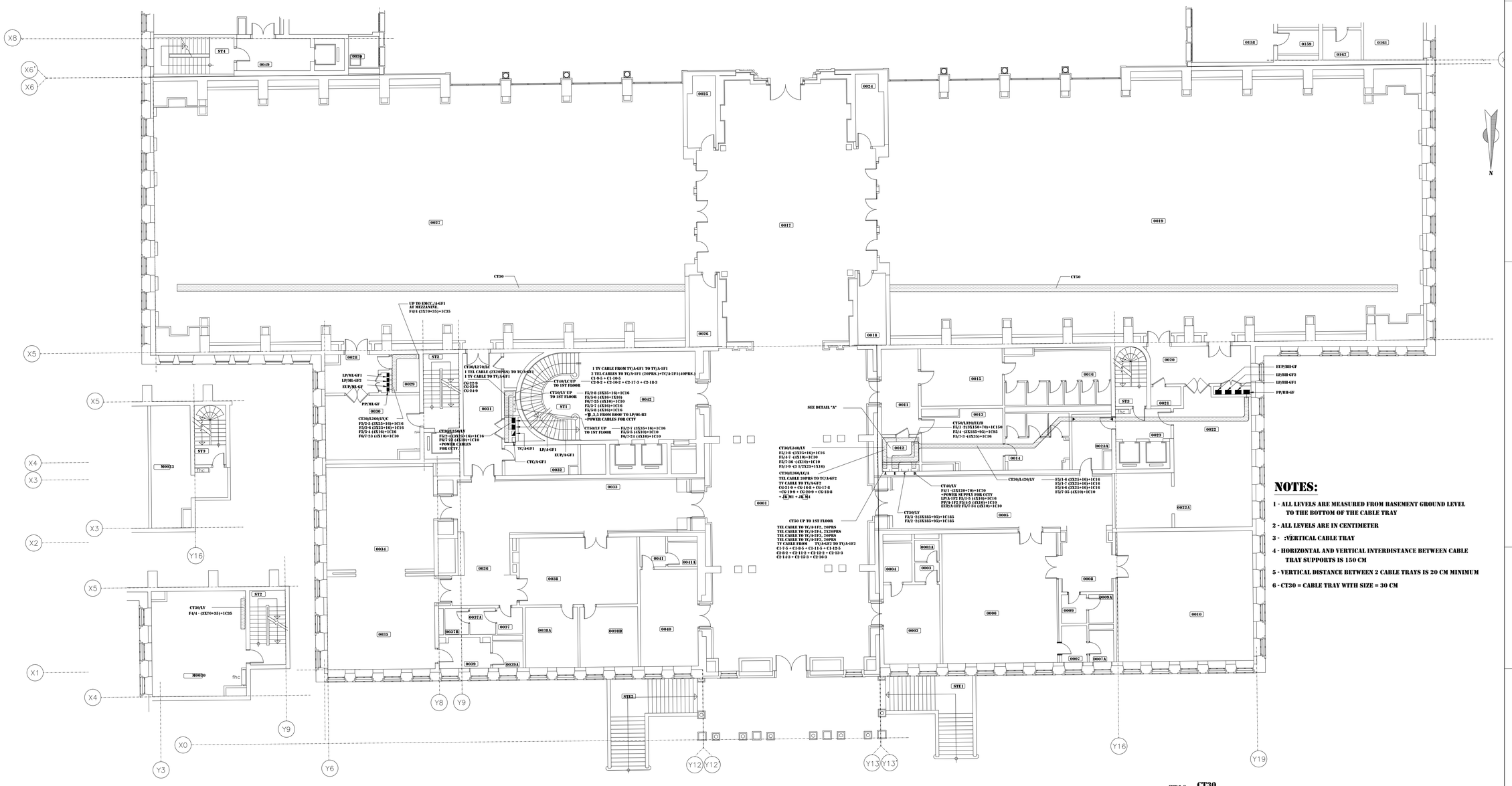


SCALE
1/150

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Zone C
Cable Trays Layout Sec3&4

SHEET NO.	Revision NO.
L1202-CD-E-405-A1	00



NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

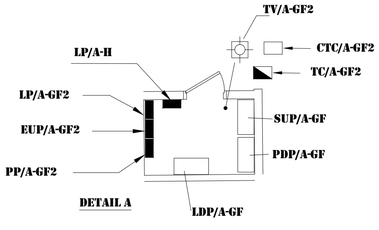
2 - ALL LEVELS ARE IN CENTIMETER

3 - :VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM

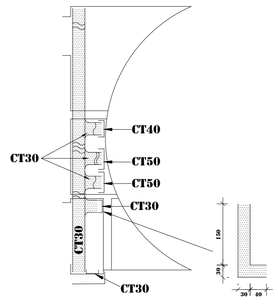
5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

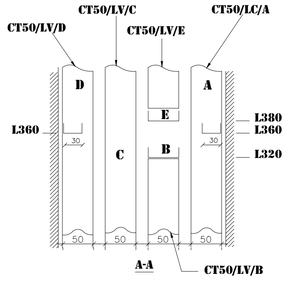
6 - CT30 = CABLE TRAY WITH SIZE = 30 CM



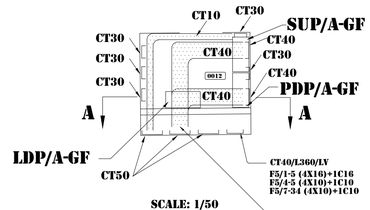
DETAIL A

SCALE : 1/50





A-A



SCALE: 1/50

LP/A-2F4 F5/1-4 (3X25+16)+1C16
PP/A-2F4 F5/4-4 (3X25+16+1X16)
EUP/A-2F4 F5/7-33 (4X10)+1C10

LP/A-2F3 F5/1-3 (4X16)+1C16
PP/A-2F3 F5/4-3 (3X25+16+1X16)
EUP/A-2F3 F5/7-32 (4X10)+1C10

LP/A-2F2 F5/1-2 (4X16)+1C16
PP/A-2F2 F5/4-2 (3X25+16+1X16)
EUP/A-2F2 F5/7-31 (4X10)+1C10

LP/A-R F5/1-1 (4X10)+1C10
LIFT D & E F5/4-1 (4X16)+1C16

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel.: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel.: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

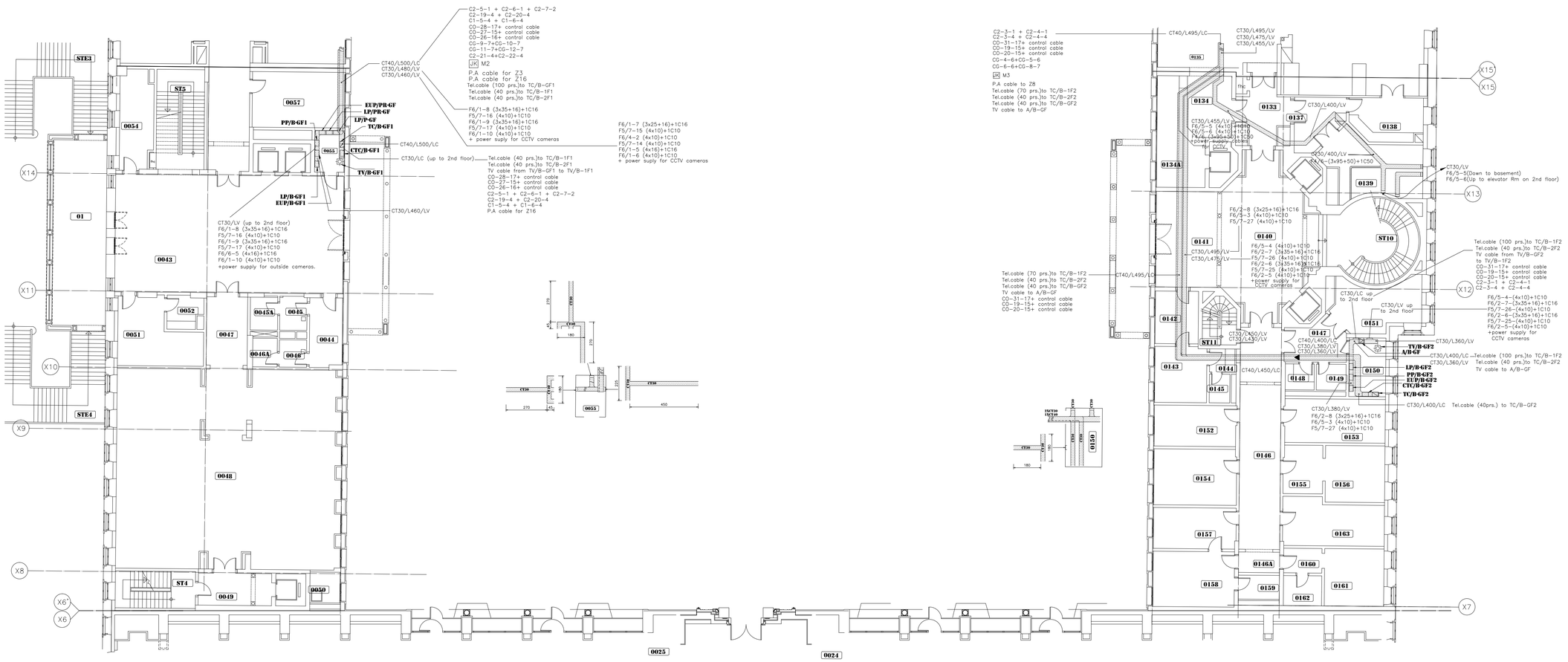
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Ground Floor Zone A
Cable Trays Layout

SHEET NO.	Revision NO.
L1202-CD-E-406-A1	00



NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

2 - ALL LEVELS ARE IN CENTIMETER

3 - [:VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM

5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHAB ARCHITECTS & ENGINEERS

BEIRUT OFFICE: TEL.: 01-809316 - 809317 FAX : 01-809315
SAIDA OFFICE: TEL.: 07-726004 TEL.FAX : 07-725118
EMAIL: INFO@ARS-CO.COM

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

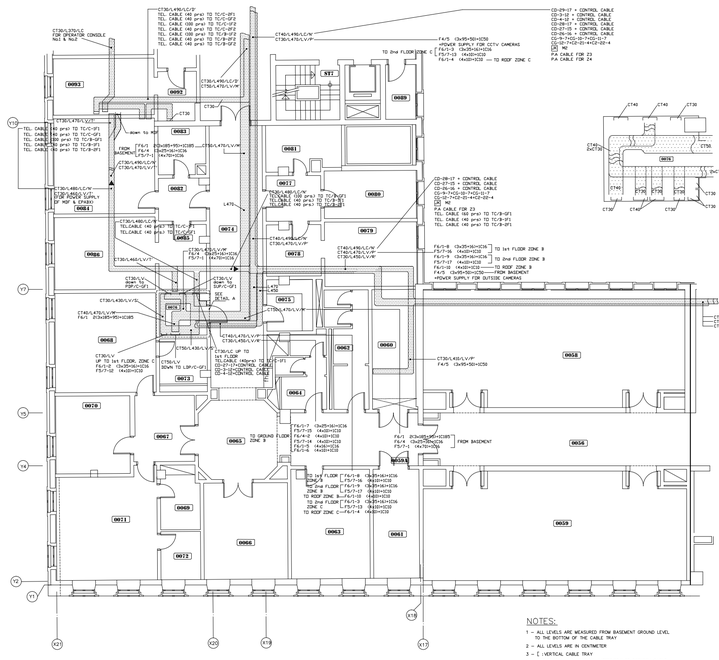
Ground Floor Zone B
Cable Trays Layout

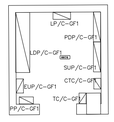
SHEET NO.

L1202-CD-E-407-A1

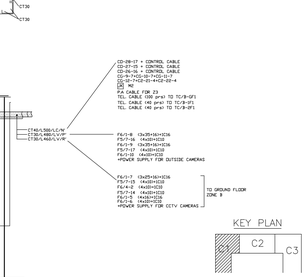
Revision NO.

00

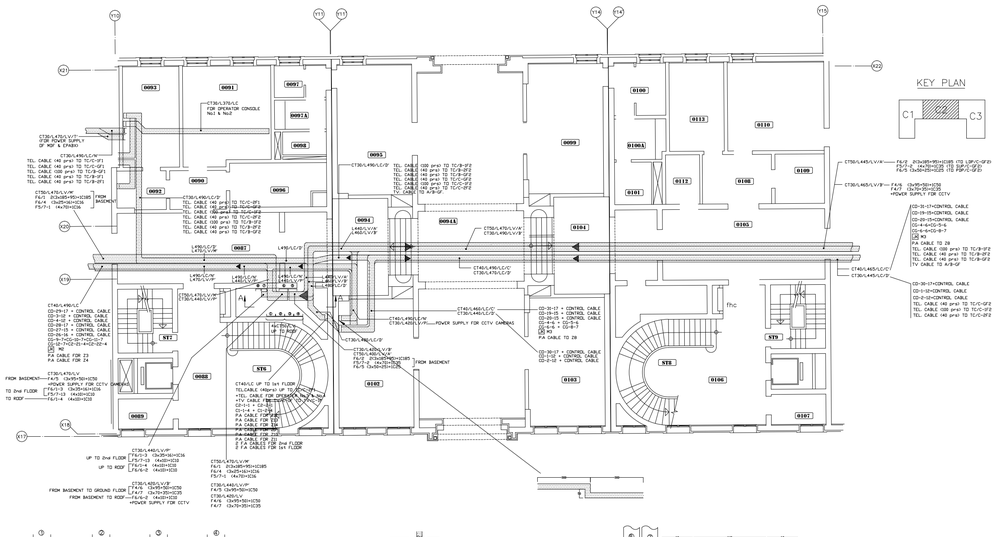




DETAIL A



KEY PLAN



KEY PLAN

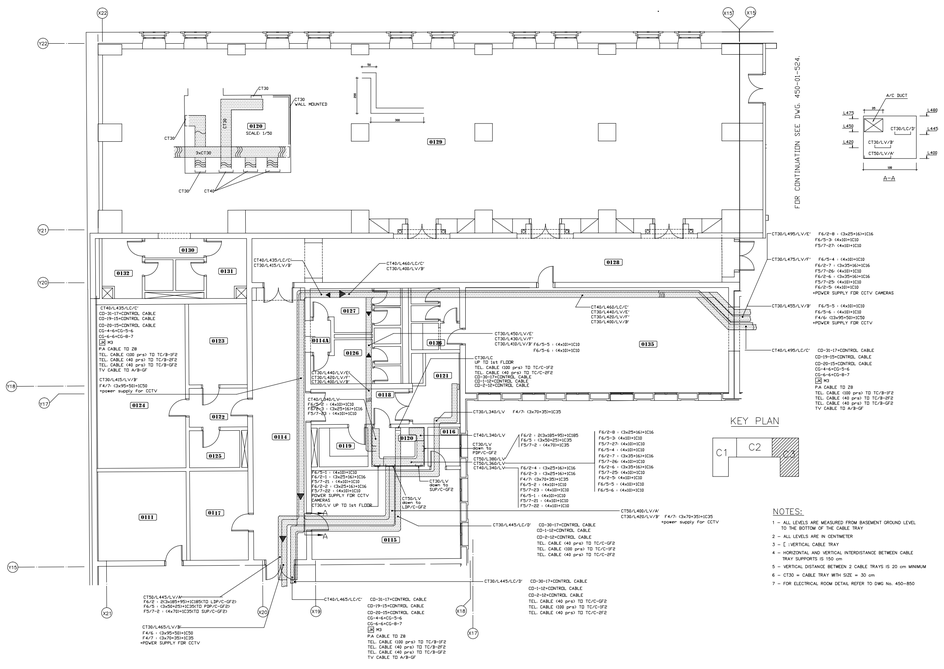
4xCT50/LV UP TO ROOF

NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [: VERTICAL CABLE TRAY
4 – HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm
7 – FOR ELECTRICAL ROOM DETAIL REFER TO DWG No. 450-850

A–A

A–A



KEY PLAN

NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 – [: VERTICAL CABLE TRAY
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5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm
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OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
ACHEHABarchitects & engineers
Beirut office: Tel: 01-809316 – 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel/Fax : 07-725118
Email: info@LDCS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

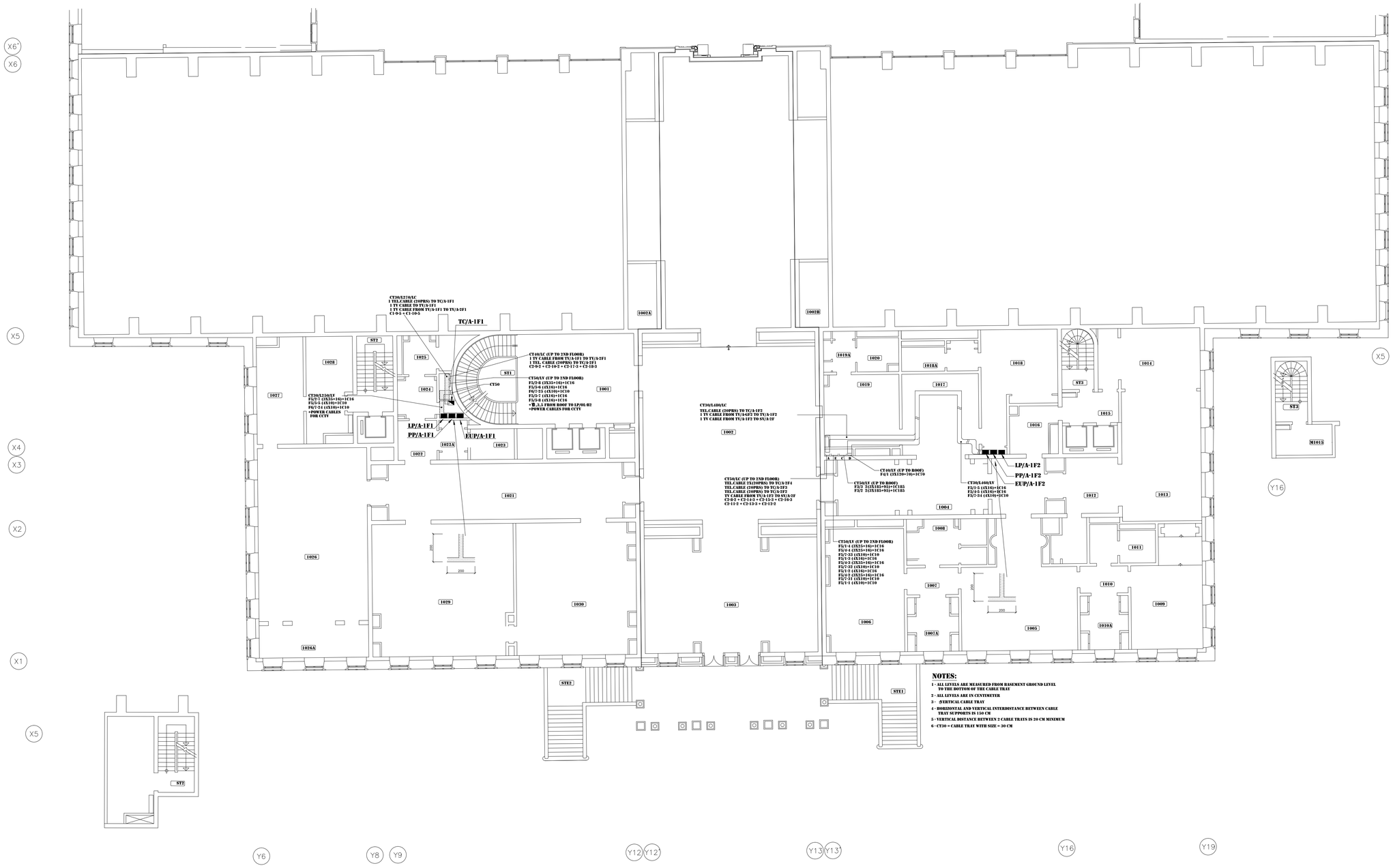
KEY PLAN:

SCALE
1/250

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Zone C
Cable Trays Layout
Section 1,2,3

SHEET NO.	Revision NO.
L1202-CD-E-408-A1	00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

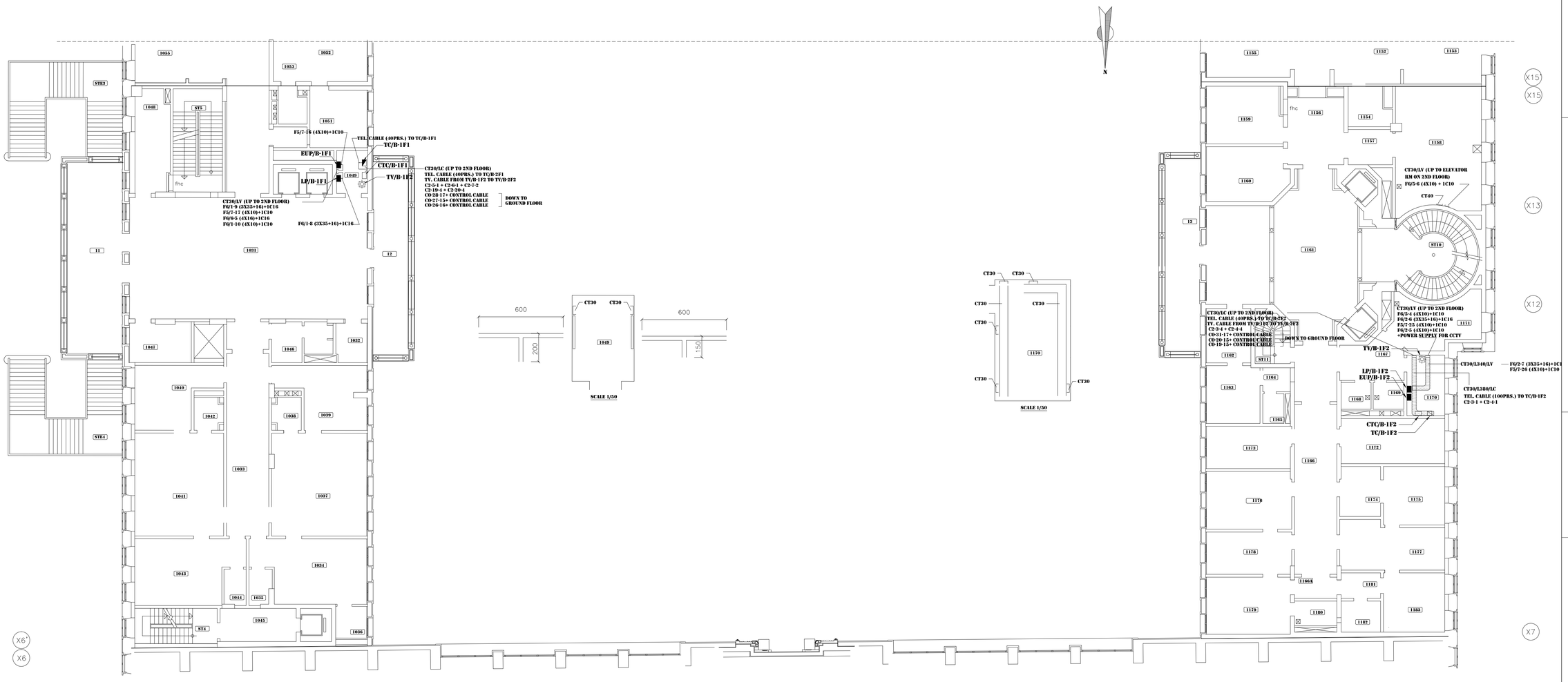
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

First Floor Zone A
Cable Trays Layout

SHEET NO.	Revision NO.
L1202-CD-E-409-A1	00



NOTES:

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2 - ALL LEVELS ARE IN CENTIMETER

3 - [: VERTICAL CABLE TRAY

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5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CD.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

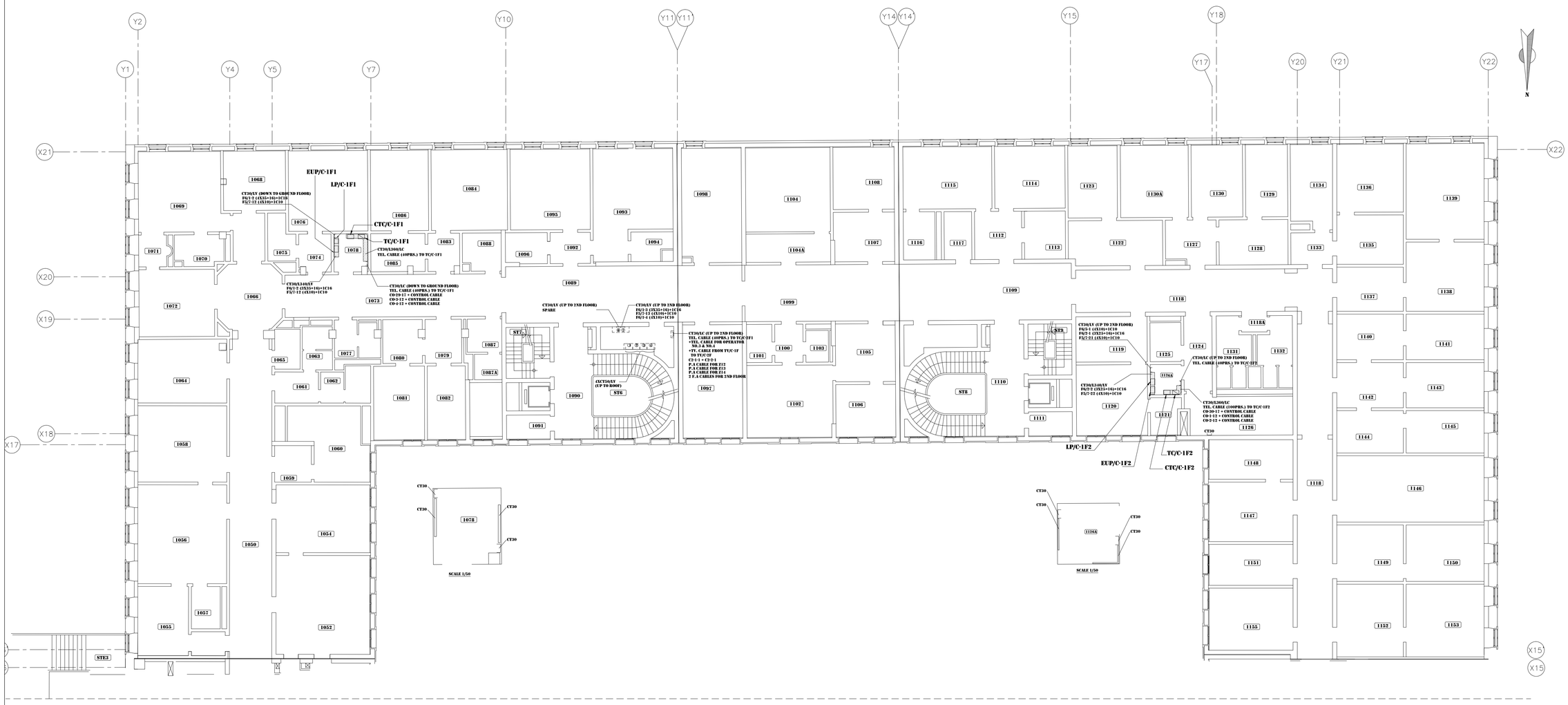
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

First Floor Zone B
Cable Trays Layout

SHEET NO.	Revision NO.
L1202-CD-E-410-A1	00



NOTES:

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2 - ALL LEVELS ARE IN CENTIMETER

3 - [:VERTICAL CABLE TRAY

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5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

①	②	③	④
F3/7: 3x95+50+1C50	F1/2: 2(3x240+120)+1C240	F4/2: 3x35+16+1C16	F3/1: 2(3x240+120)+1C240
F3/6: 3x70+35+1C35	F2/1: 2(3x240+120)+1C240	F4/3: 3x95+50+1C50	F3/5: 3x70+35+1C35
F1/1: 2(3x240+120)+1C240		F2/2: 2(3x240+120)+1C240	F3/4: 3x25+16+1C16

4xCT50/LV UP TO ROOF

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHABarchitects & engineers

Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DRS-CD.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

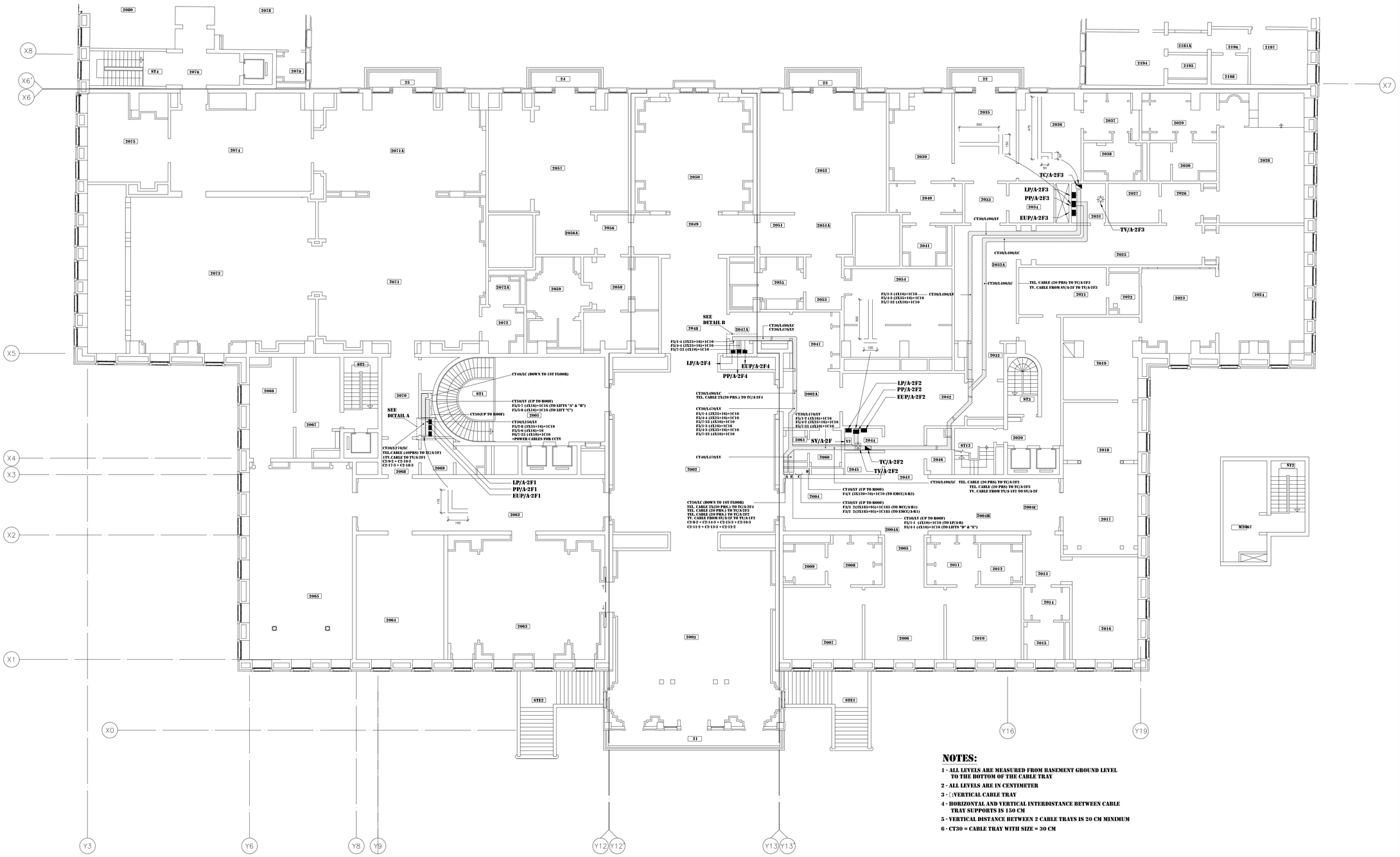
First Floor Zone C
Cable Tray Layout

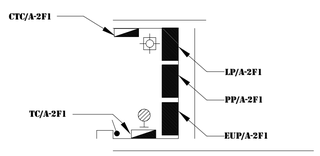
SHEET NO.

L1202-CD-E-411-A1

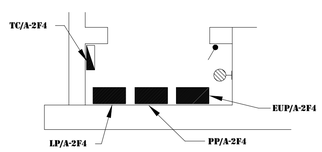
Revision NO.

00





DETAIL"A"
(SCALE 1/25)



DETAIL"B"
(SCALE 1/25)

NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

2 - ALL LEVELS ARE IN CENTIMETER

3 - [:-VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM

5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 CM

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A.DRS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

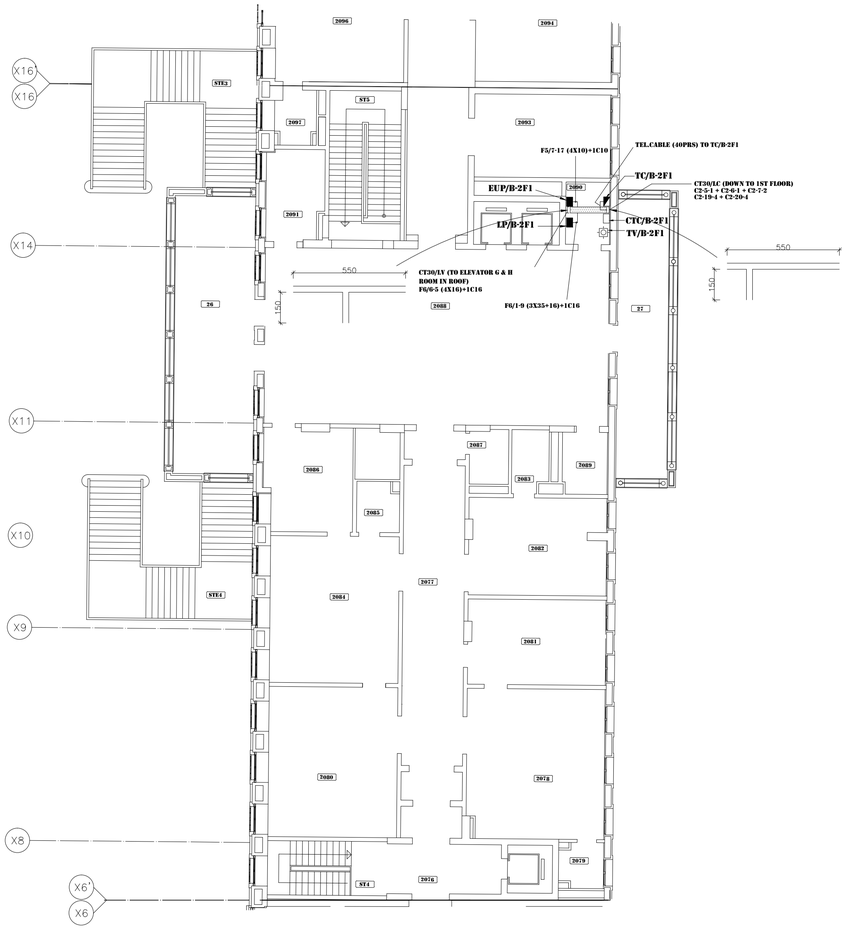
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Second Floor Zone A
Cable Trays Layout

SHEET NO.
L1202-CD-E-412-A1

Revision NO.
00



NOTES:

1 - ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY

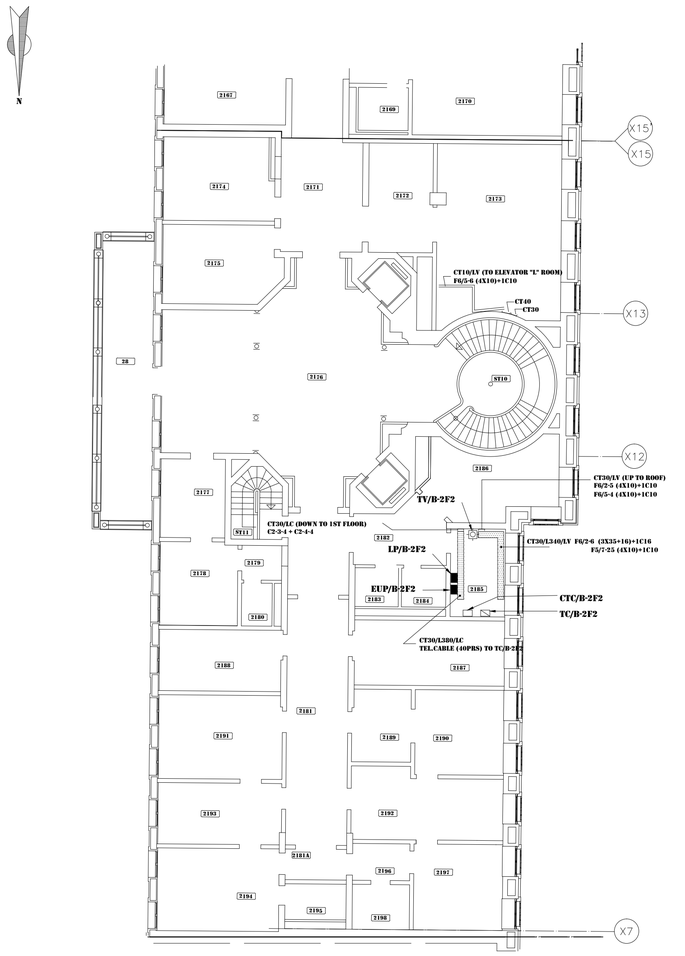
2 - ALL LEVELS ARE IN CENTIMETER

3 - :VERTICAL CABLE TRAY

4 - HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 CM

5 - VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 CM MINIMUM

6 - CT30 = CABLE TRAY WITH SIZE = 30 CM



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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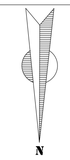
Email: info@LDRS-CD.com

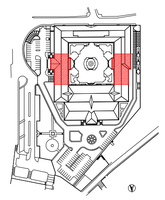
PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:



KEY PLAN:



SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

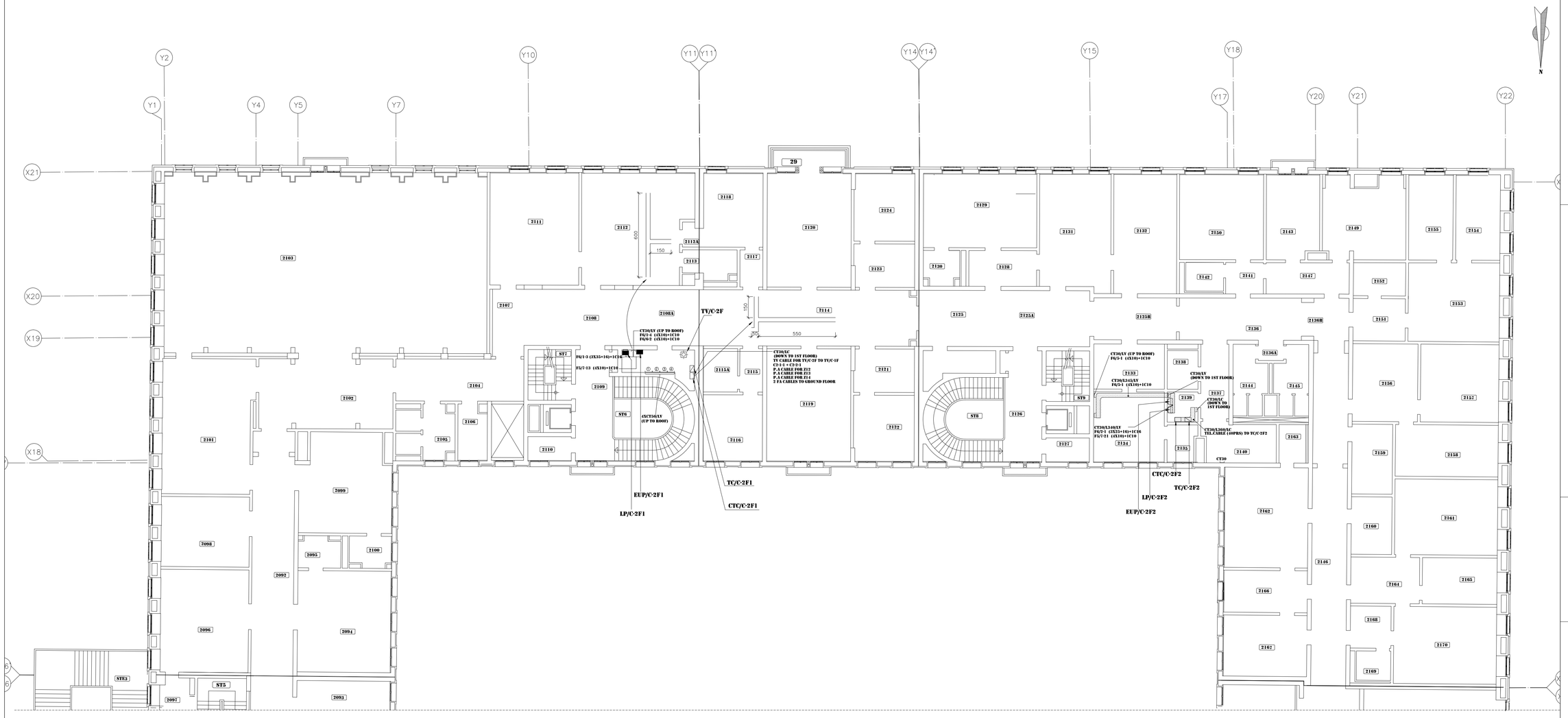
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Second Floor Zone B
Cable Trays Layout

SHEET NO.	Revision NO.
L1202-CD-E-413-A1	00



① F3/7: 3x95+50+1C50
F3/6: 3x70+35+1C35
F1/1: 2(3x240+120)+1C240

② F1/2: 2(3x240+120)+1C240
F2/1: 2(3x240+120)+1C240

③ F4/2: 3x35+16+1C16
F4/3: 3x95+50+1C50
F2/2: 2(3x240+120)+1C240

④ F3/1: 2(3x240+120)+1C240
F3/5: 3x70+35+1C35
F3/4: 3x25+16+1C16

4xCT50/LV UP TO ROOF

NOTES:

1 – ALL LEVELS ARE MEASURED FROM BASEMENT GROUND LEVEL TO THE BOTTOM OF THE CABLE TRAY
2 – ALL LEVELS ARE IN CENTIMETER
3 –[:VERTICAL CABLE TRAY
4 – HORIZONTAL AND VERTICAL INTERDISTANCE BETWEEN CABLE TRAY SUPPORTS IS 150 cm
5 – VERTICAL DISTANCE BETWEEN 2 CABLE TRAYS IS 20 cm MINIMUM
6 – CT30 = CABLE TRAY WITH SIZE = 30 cm
7 – FOR ELECTRICAL ROOM DETAIL REFER TO DWG No. 450–850

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel: 07-726004 Tel.Fax : 07-725118
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

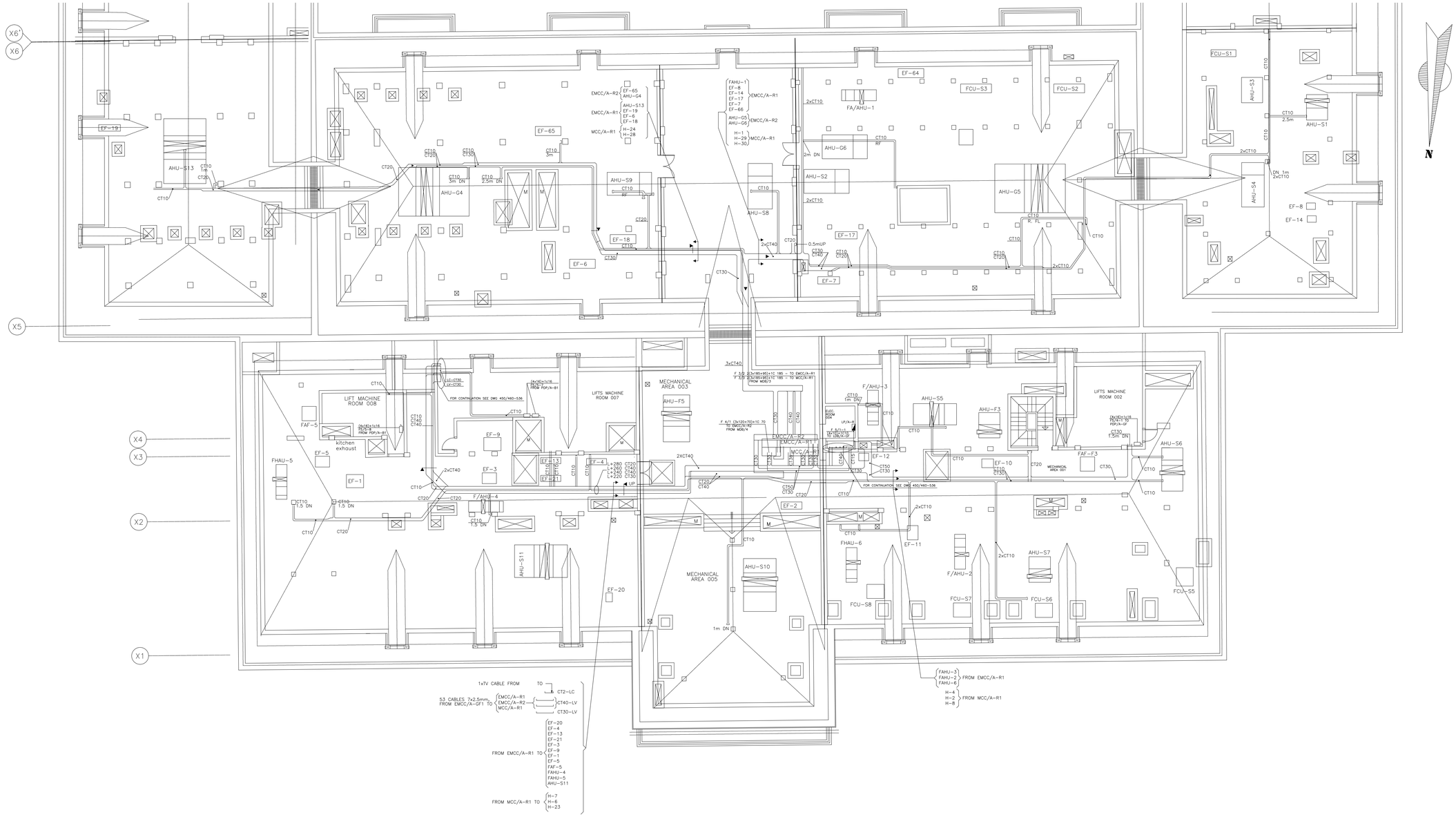
SCALE
1/150

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Second Floor Zone C
Cable Trays Layout

SHEET NO.
L1202-CD-E-414-A1

Revision NO.
00



OWNER NAME:

CLIENT:

COUNCIL FOR DEVELOPMENT AND RECONSTRUCTION

CONSULTANT OFFICE :

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PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

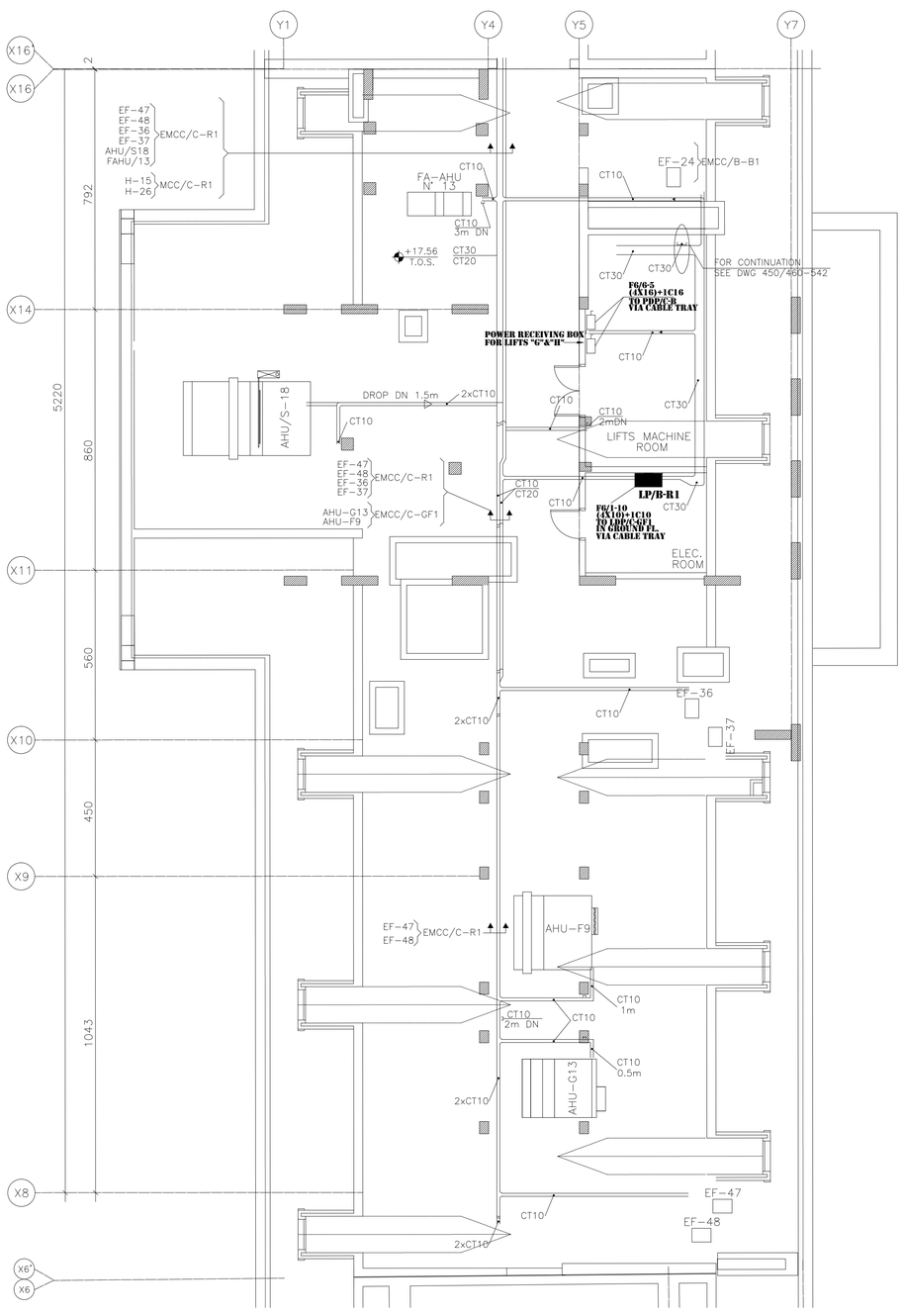
Roof Floor Zone A
Cable Trays Layout

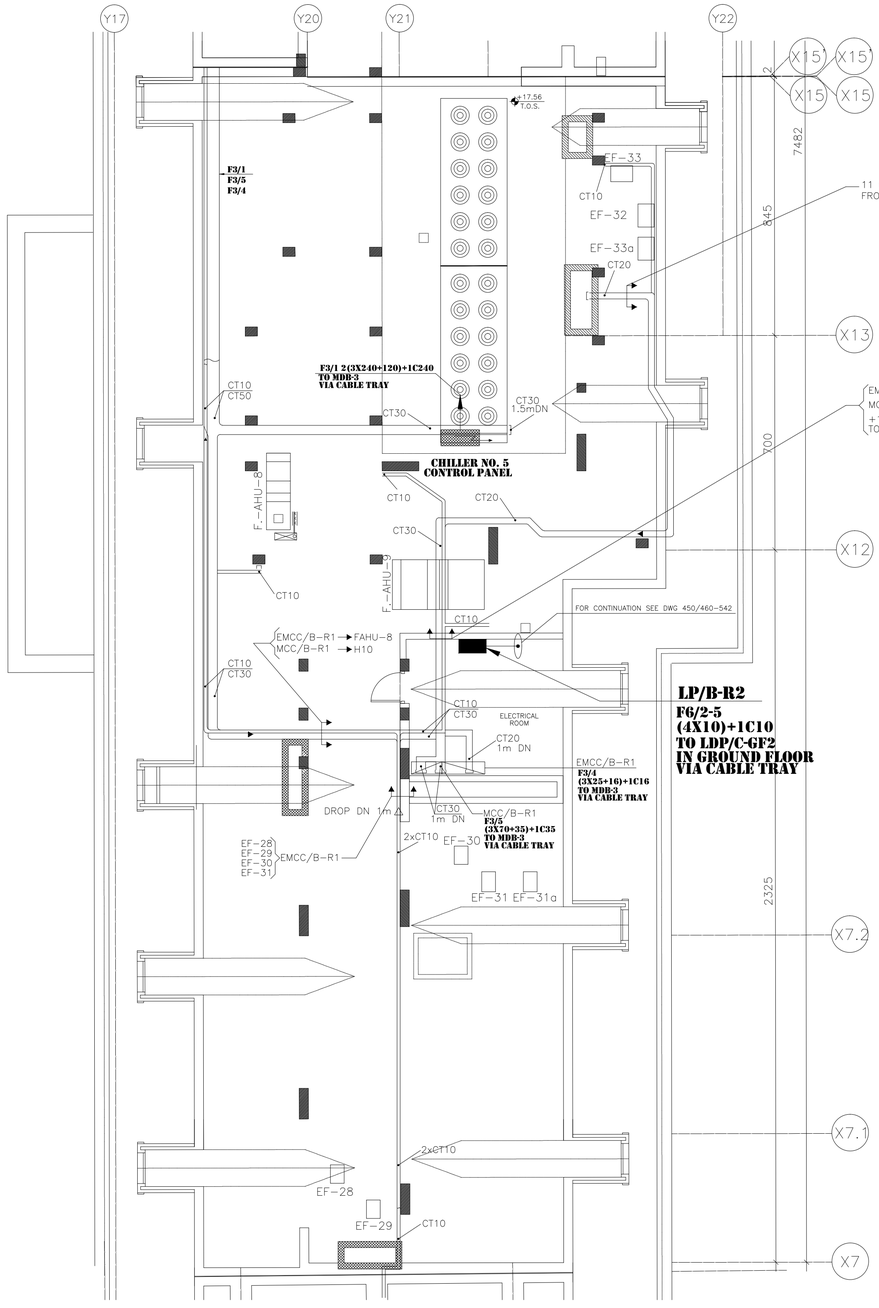
SHEET NO.

L1202-CD-E-415-A1

Revision NO.

00





OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_DKS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

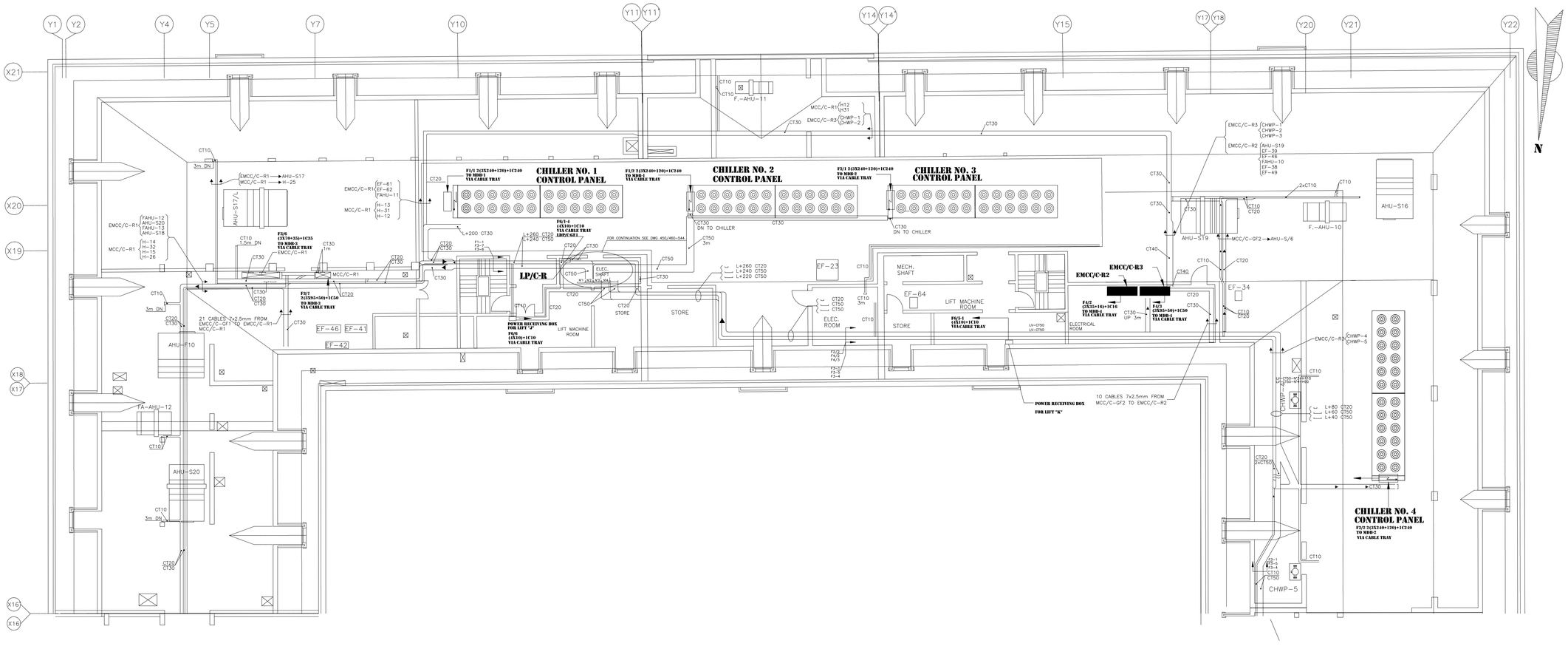
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

Roof Floor Zone B
Cable Trays Layout

SHEET NO.	Revision NO.
L1202-CD-E-416-A1	00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

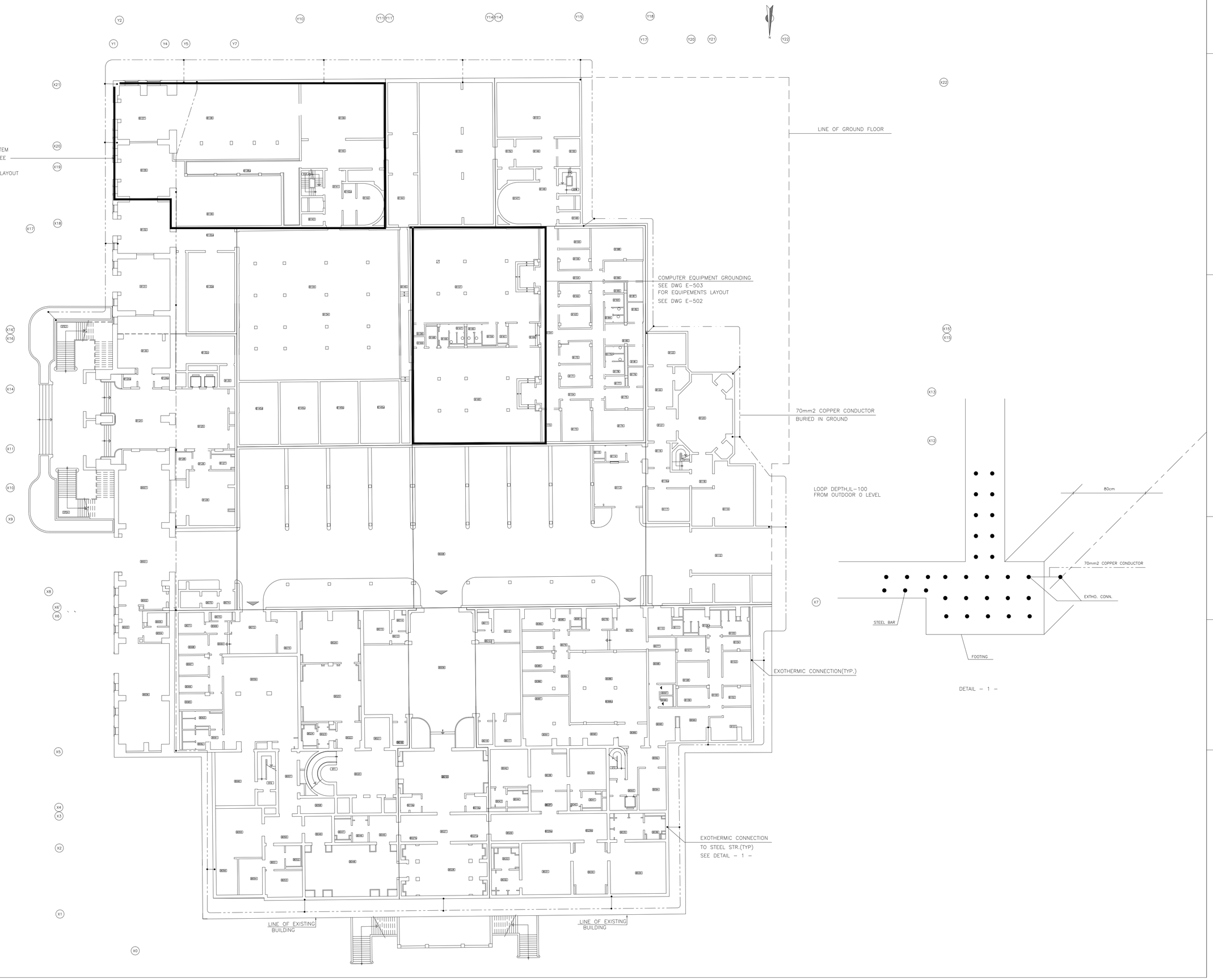
CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE
Roof Floor Zone C
Cable Trays Layout

SHEET NO.
L1202-CD-E-417-A1

Revision NO.
00



OWNER NAME:

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PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

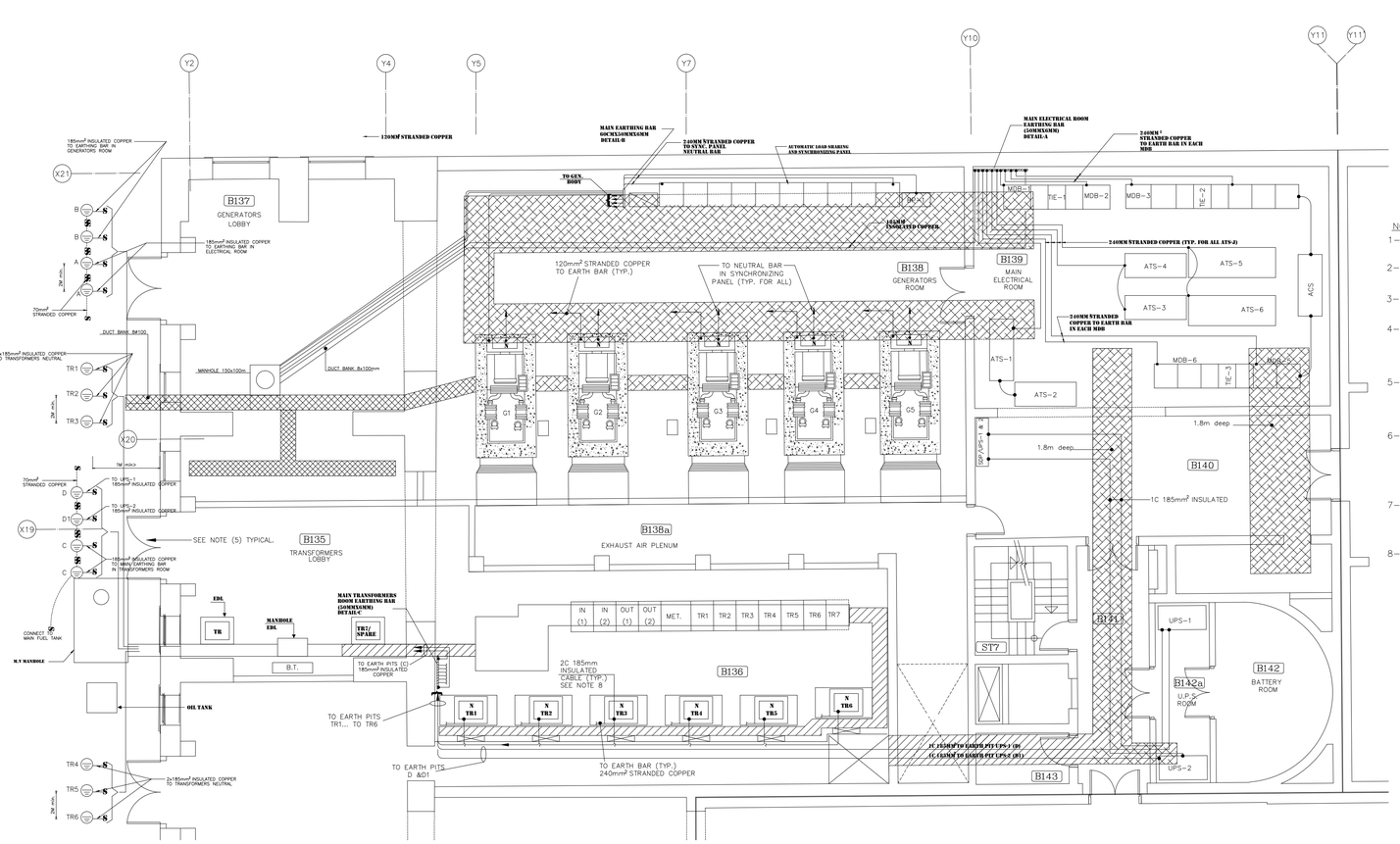
KEY PLAN:

SCALE
1/250

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Earthing Layout

SHEET NO.	Revision NO.
L1202-CD-E-500-A1	00



NOTES:

1– CONNECTED TO EARTH BAR IN PANEL (TYP.)

2– EARTH CONDUCTORS ARE RUNNING IN CABLE TRAYS, OR DUCT BANKS

3– NUMBER OF EARTH PITS TO BE DETERMINED, IN EACH CASE, TO SPECIFICATIONS

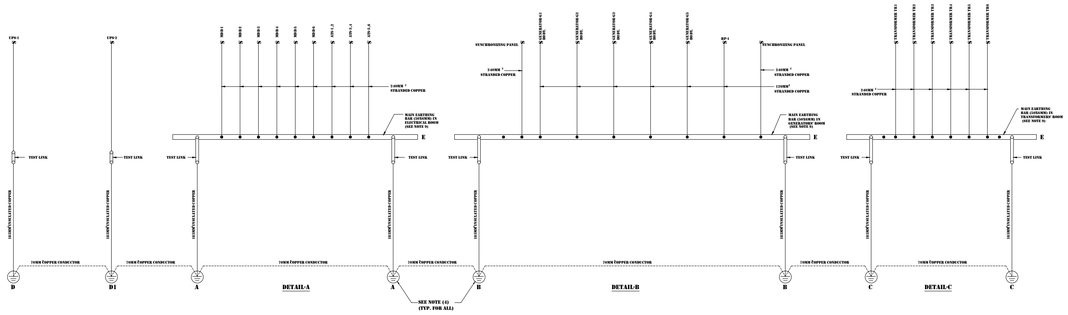
4– ALL METALLIC STRUCTURES IN THESE ROOMS (DOORS, WINDOWS, DAILLY TANKS Etc.) TO BE EARTHED BY CONNECTING THEM TO EARTH BARS IN CORRESPONDING ROOMS.

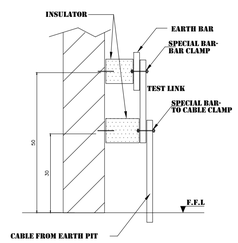
5– (EDL) IS TO EXECUTE THE EARTHING OF TRANSFORMERS NEUTRALS AND BODIES AND TRANSFORMER SWITCH GEAR CABINETS INSIDE TRANSFORMERS ROOM.

6– CONDUCTORS BETWEEN NEUTRAL BARE IN SYNCHRONIZING PANELS AND THE FOURTH POLE OF ATS, ALSO BETWEEN TRANSFORMERS NEUTRALS AND THE FOURTH POLE OF ATS ARE NOT INDICATED IN THIS DWG.

7– EARTHING CABLES CONNECTING TRANSFORMERS NEUTRALS AND TRANSFORMERS BODIES TO BE DETERMINED ACCORDING TO EDL SHOP DRAWING

8– LENGTH OF EARTH BARS IN TRANSFORMERS, ELECTRICAL AND GENERATOR'S ROOMS TO BE DETERMINATED ACCORDING TO THE N' OF EARTH TERMINALS IN EACH CASE.





OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

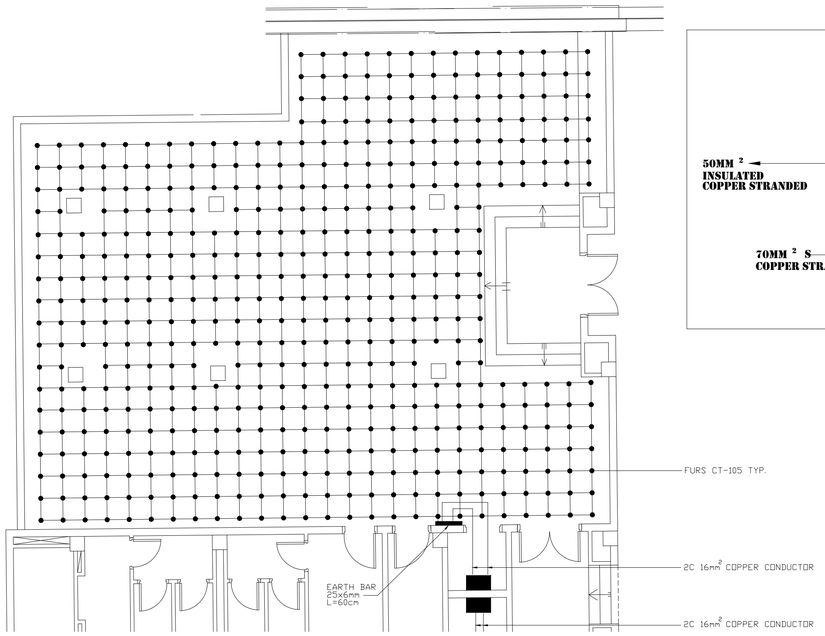
DESIGNED BY:NAJ - MAK

CHECKED BY :BS

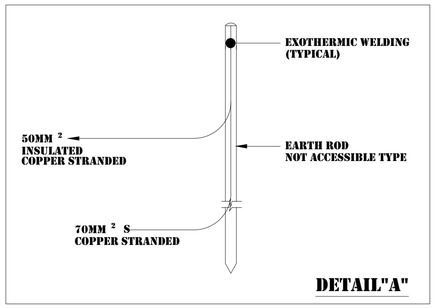
APPROVED BY :AC

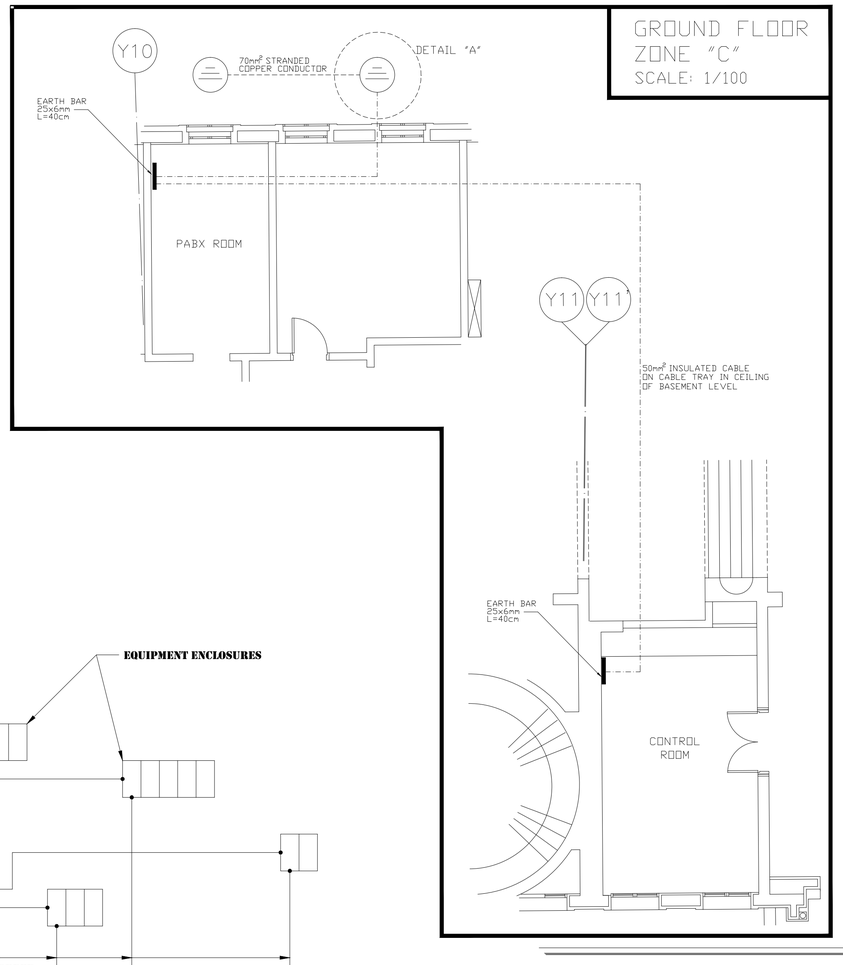
SHEET TITLE
Transformers, Generators and Electrical rooms
Earthing Layout

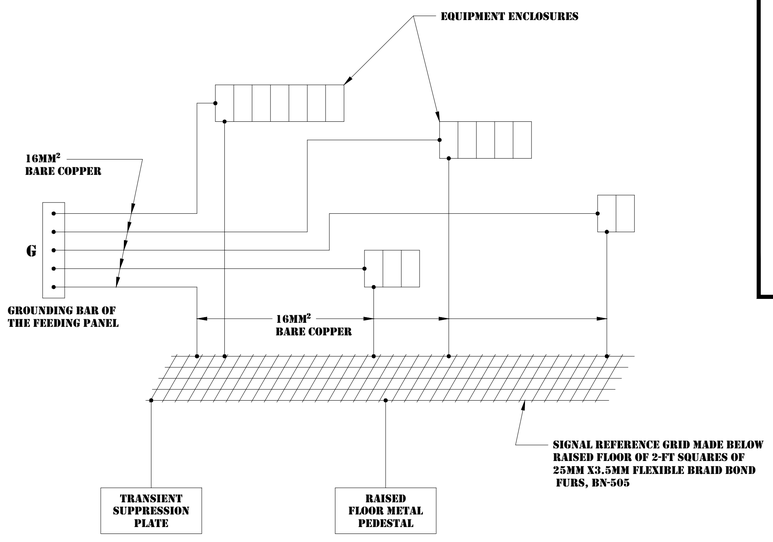
SHEET NO.	Revision NO.
L1202-CD-E-501-A1	00



BASEMENT ZONE C
COMPUTER ROOM
SCALE: 1/50







NOTES

ALL GROUND LEADS FROM EQUIPMENT GROUND POINT (EXCEPT TO REFERENCE GRID) MUST BE RUN IN SAME CABLE OR RACEWAY WITH POWER CONDUCTORS. ALL CONNECTIONS FROM EQUIPMENT TO REFERENCE GRID ARE TO BE KEPT AS SHORT AS POSSIBLE .

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Email: info@LDRS-CD.com

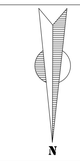
PROJECT NAME:
REHABILITATION OF
GRAND SERAIL

CODE No:
L1202

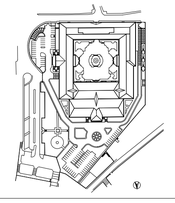
PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:



KEY PLAN:



SCALE
1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

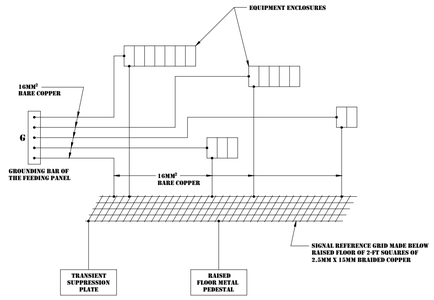
APPROVED BY :AC

SHEET TITLE
Low Current & Computers
Rooms Earthing Layout

SHEET NO.
L1202-CD-E-502-A1

Revision NO.
00

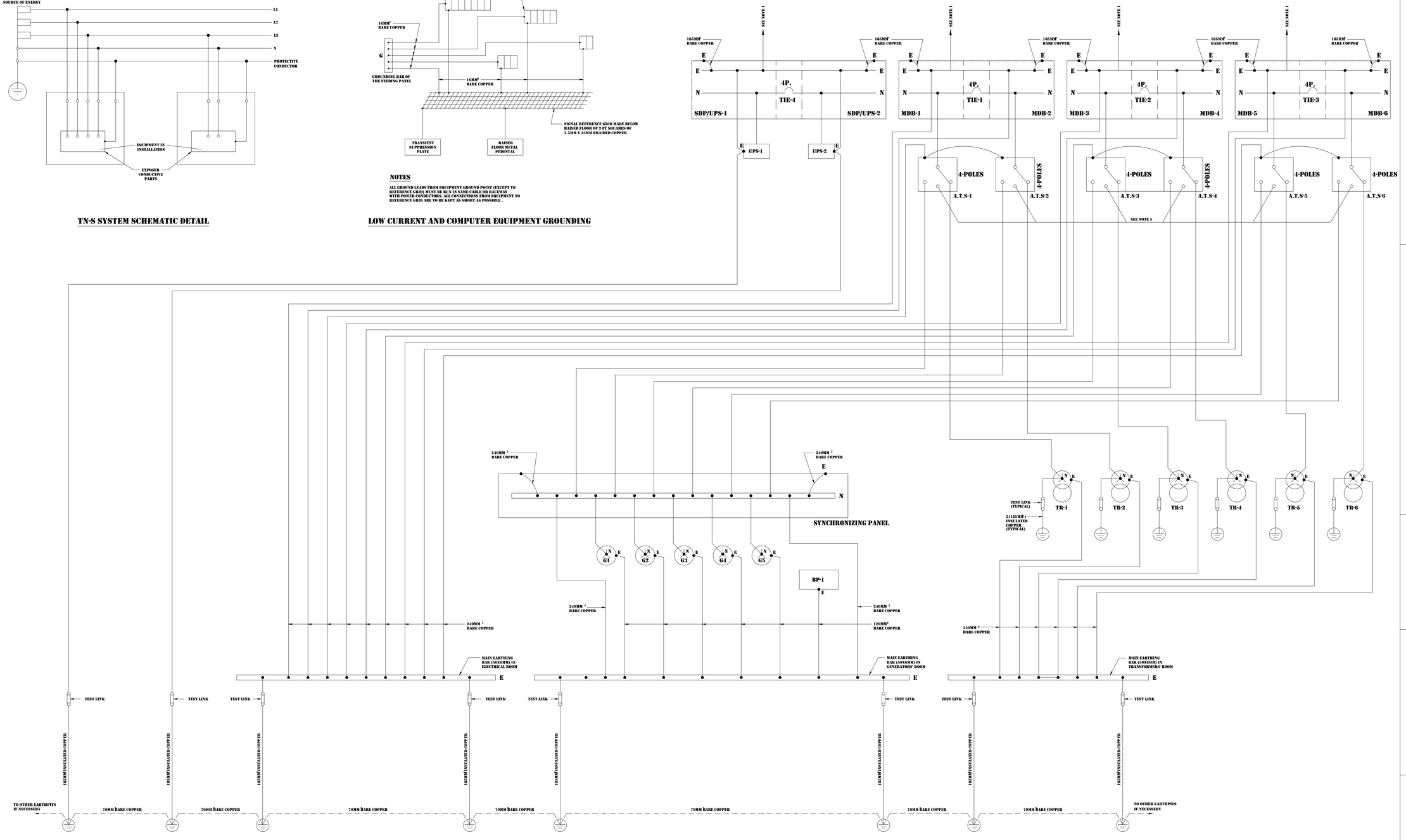
TN-S SYSTEM SCHEMATIC DETAIL



NOTES

ALL GROUND LEADS FROM EQUIPMENT GROUND POINT (EXCEPT TO REFERENCE GRID) MUST BE RUN IN SAME CABLE OR RACEWAY WITH POWER CONDUCTORS. ALL CONNECTIONS FROM EQUIPMENT TO REFERENCE GRID ARE TO BE KEPT AS SHORT AS POSSIBLE .

LOW CURRENT AND COMPUTER EQUIPMENT GROUNDING



NOTES

1- TYPICAL TO THE EARTHING TERMINALS / BARS OF THE DOWNSTREAM EQUIPMENT / PANELS

2- THE NUMBER OF EARTH PITS ON THIS DRAWING IS ONLY INDICATIVE . THE NUMBER OF EARTH PITS SHALL BE SUCH AS TO OBTAIN THE EARTH RESISTANCE AS PER THE SPECIFICATION.

3- THE ATS'S AND BREAKERS SHOWN ON THIS DRAWING INDICATE THE FOURTH POLE OF THE RESPECTIVE SWITCHGEAR.

4- AN ELECTRICAL INTERLOCK IS PROVIDED SO THAT IF MDB-1 MAIN BKR & TIE-1 BREAKER ARE CLOSED MAIN CONTACTORS OF ATS'2 SHALL BE OFF AND IF MDB-2 MAIN BKR & TIE-1 BKR ARE CLOSED MAIN CONTACTORS OF ATS-1 SHALL BE OFF. THIS APPLIES TO AL MDB'S & ATS'S.

5- ALL ATS'S CONTACTORS & MDB'S TIE BREAKERS ARE 4-POLES. ALL MDB'S MAIN BREAKERS ARE 3-POLES.

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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Email: info@LDKS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

N

KEY PLAN:

SCALE

1/150

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

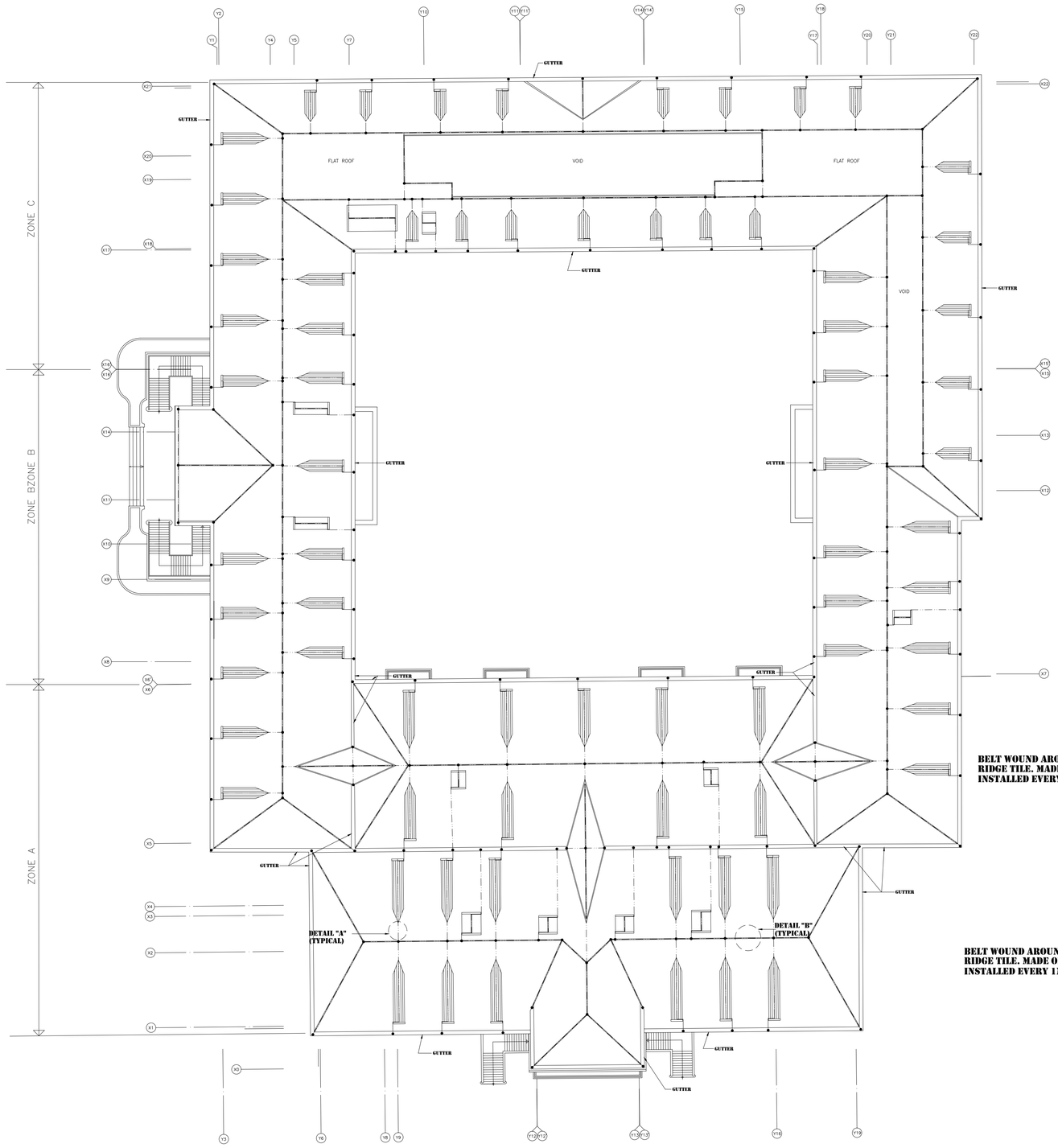
CHECKED BY :BS

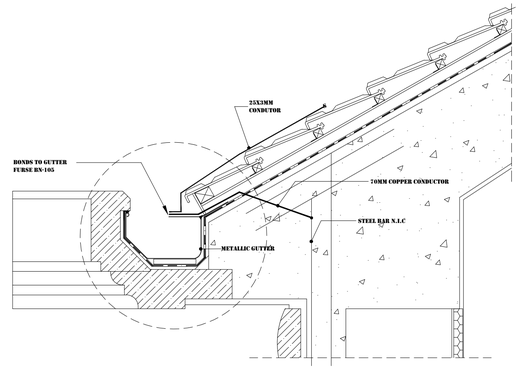
APPROVED BY :AC

SHEET TITLE

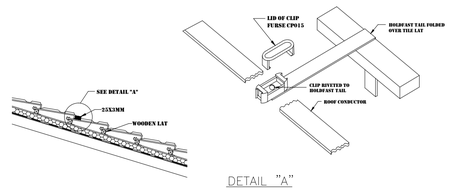
Earthing System Schematic Diagram

SHEET NO.	Revision NO.
L1202-CD-E-503-A1	00





DETAIL
SECTION AT GUTTER
1/10



DETAIL "A"
N.T.S

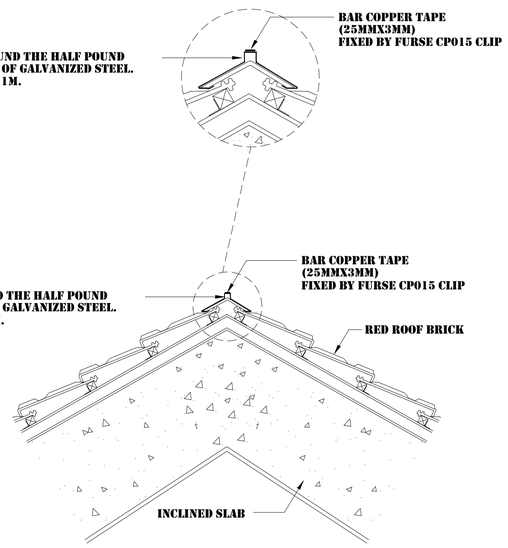
NOTES

1- THE METALLIC GUTTERS SHALL BE USED FOR THE EAVES CONDUCTOR. THIS CONDUCTOR SHALL BE FIRMLY AND SECURELY CONNECTED TO THE REINFORCING STEEL BARS OF THE BUILDING AT INTERVALS NOT EXCEEDING 10M ALONG THE INNER AND OUTER PERIPHERIES OF THE BUILDING.

2- ALL CONNECTIONS SHALL BE CORROSION PROOF SPECIALLY TREATED AND COVERED WITH A LAYER OF GREESE AND CAPPED TO AVOID ELECTROLAYTE CORROSION.

LEGEND :

- ● : BONDING CONDUCTOR
- — · — · — : HORIZONTAL CONDUCTOR



DETAIL"B"
1/10

FIXATION OF HORIZONTAL ROOF CONDUCTOR FOR LIGHTNING PROTECTION SYSTEM

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@L.DKS-CD.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:
N

KEY PLAN:

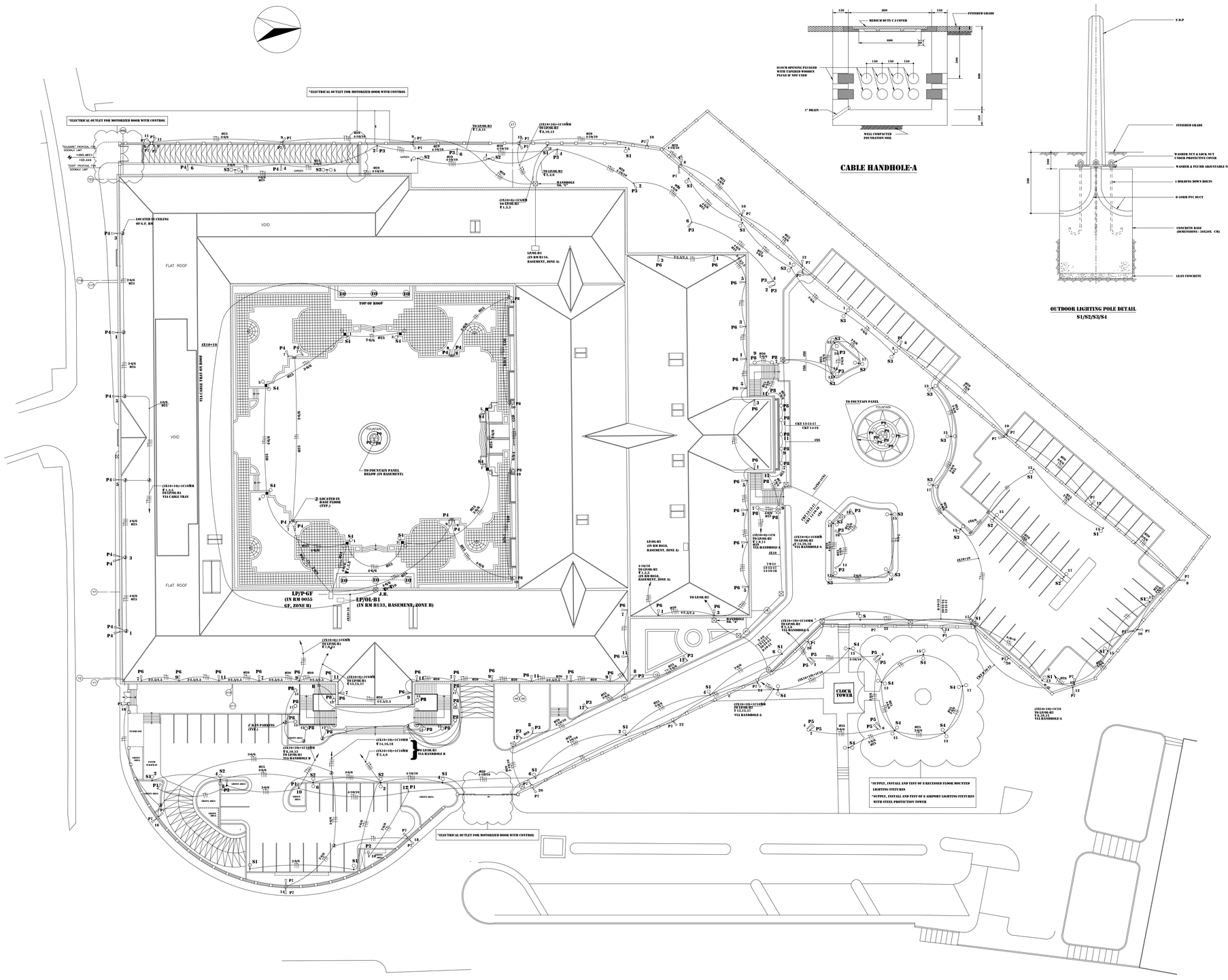
SCALE BAR
1/250

DATE: May 2022
DRAWN BY:NAJ - MAK
DESIGNED BY:NAJ - MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Top of Roof
Lightning Layout

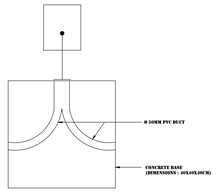
SHEET NO.
L1202-CD-E600-A1

Revision NO.
00



CABLE HANDHOLE-A

OUTDOOR LIGHTING POLE DETAIL
S1/S2/S3/S4



FOR PROJECTORS
P1/P2/P3/P4/P5

NOTES

1- FOR DESCRIPTION OF LIGHTING FIXTURES, REFER TO ELECTRICAL LEGEND

2- UNDERWATER LIGHTING FIXTURES SHALL BE FED FROM THE RESPECTIVE FOUNTAIN CONTROL PANEL. CONTROL PANELS ARE SHOWN ON MECHANICAL DWGS.

3- ALL OUTDOOR L.V INSTALLATIONS INCLUDING FLOODLIGHTING AT ROOF LEVEL SHALL BE FED FROM LP/OL-B1 , LP/OL-B2 & LP/OL-B3.

4- THE HANDHOLES SHOWN ON THIS DWG. ARE NOT UNDER THE ELECTRICAL CONTRACT. REFER TO DWG NO. 720 OZ 608 FOR HANDHOLES LAYOUT.

5- R,Y AND B STANDS FOR "RED", "YELLOW" AND "BLUE" PHASES.

6- FOR POLE MOUNTING DETAIL, REFER TO DWG NO. 450-01-106.

7- ———— CONDUIT EMBEDDED IN ROOF CEILING SLAB.

8- ---------- CABLE RUN IN DUCT BANK.

9- FOR LOCATION OF THE PULL BOXES FOR "P6" (LOCATED ON TOP OF THE ROOF), REFER TO DWGS. 450-01-213 FOR ZONE "A" AND 450-01-2131 FOR ZONE "B"

10- ⊠ W.P. JUNCTION BOX.

NOTE:

1- ALL CIVIL WORKS IN THIS DWG. N.I.C.
2- CABLE HANDHOLE 60x60x80cm
3- A SEE DETAIL "CABLE HANDHOLE-A"

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHABarchitects & engineers
Beirut office: Tel: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel: 07-726004 Tel.Fax : 07-725118
Email: info@A_CHS-CO.com

PROJECT NAME:	CODE No:
REHABILITATION OF GRAND SERAIL	L1202
PROJECT LOCATION: Beirut - Lebanon	

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

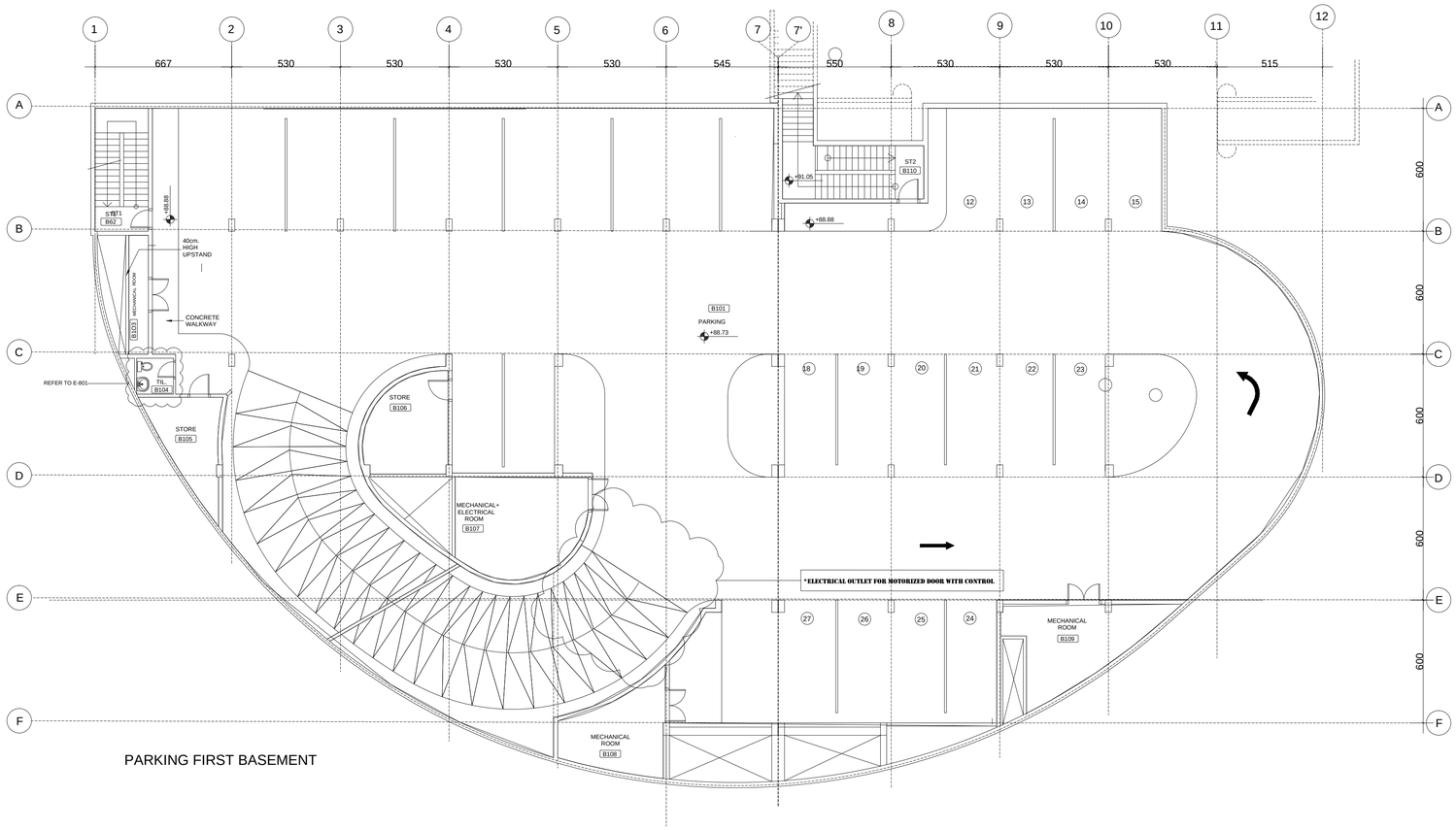
CHECKED BY :BS

APPROVED BY :AC

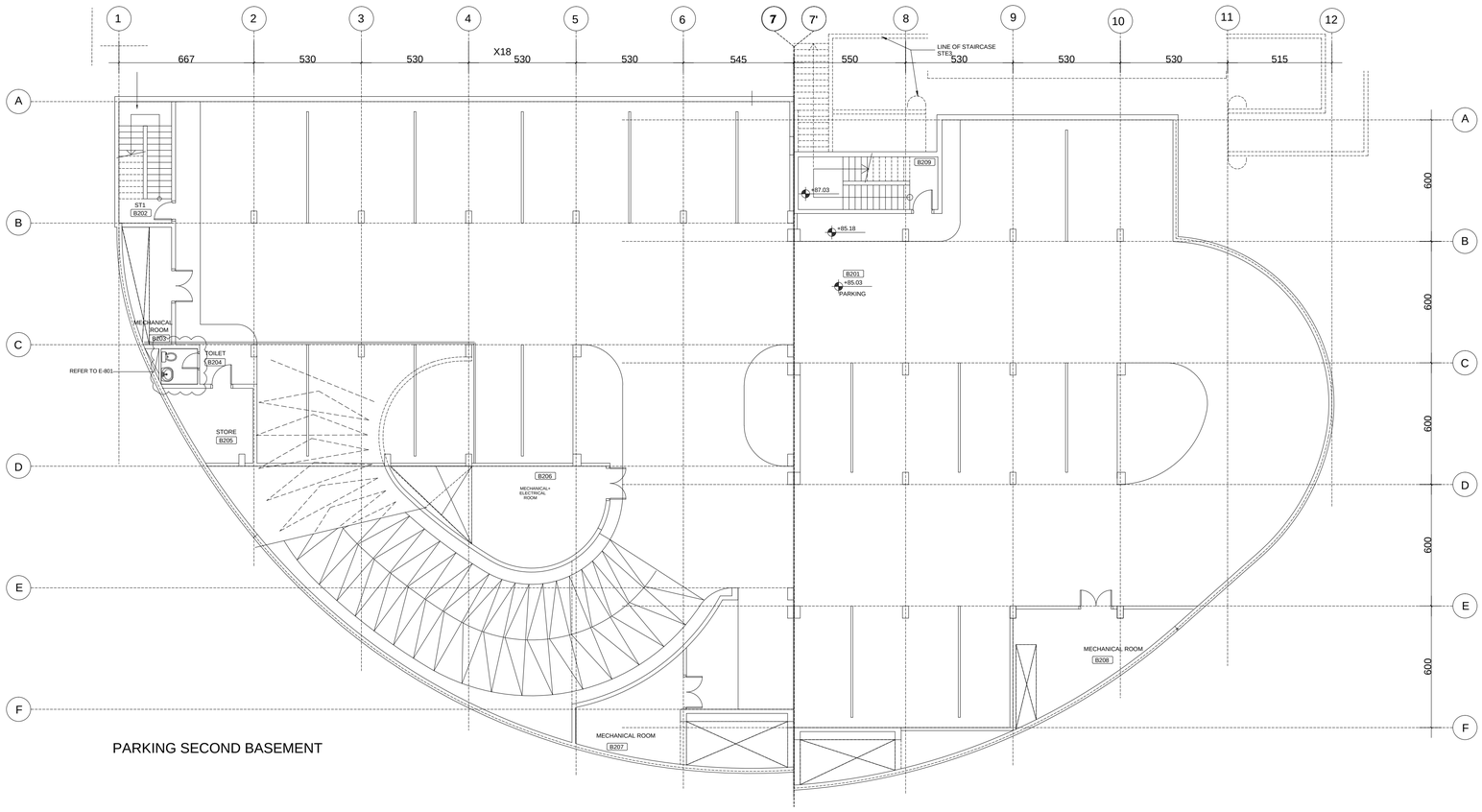
SHEET TITLE

Mass Plan Outdoor Lighting and Power Installation

SHEET NO.	Revision NO.
L1202-CD-E-700-A1	00



PARKING FIRST BASEMENT



PARKING SECOND BASEMENT

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

A.CHEHAB architects & engineers

Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel.: 07-726004 Tel./Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

APPROVED BY :AC

SHEET TITLE

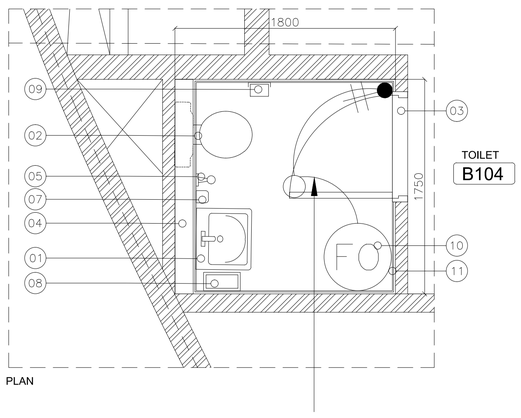
External Parking
Basement Floor Plans

SHEET NO.

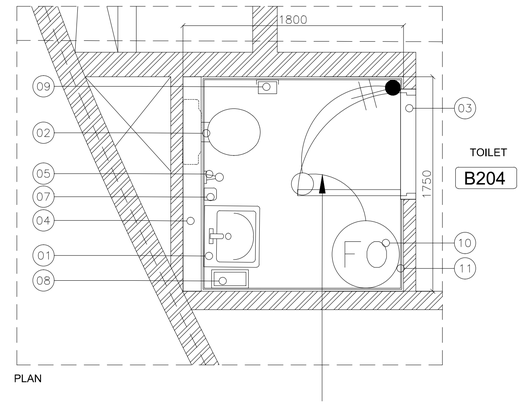
L1202-CD-E-800-A1

Revision NO.

00



CT. 3 TO LP/B-P IN 1ST BASEMENT B104



CT. 6 TO LP/B-P IN 2ND BASEMENT B204

OWNER NAME:

CLIENT:

CONSULTANT OFFICE :

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Email: info@LDRS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

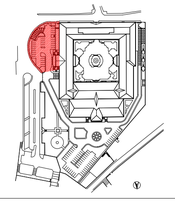
CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES: Toilets Types Legend:

NORTH:

KEY PLAN:



SCALE 1/25

DATE: May 2022

DRAWN BY:NAJ - MAK

DESIGNED BY:NAJ - MAK

CHECKED BY :BS

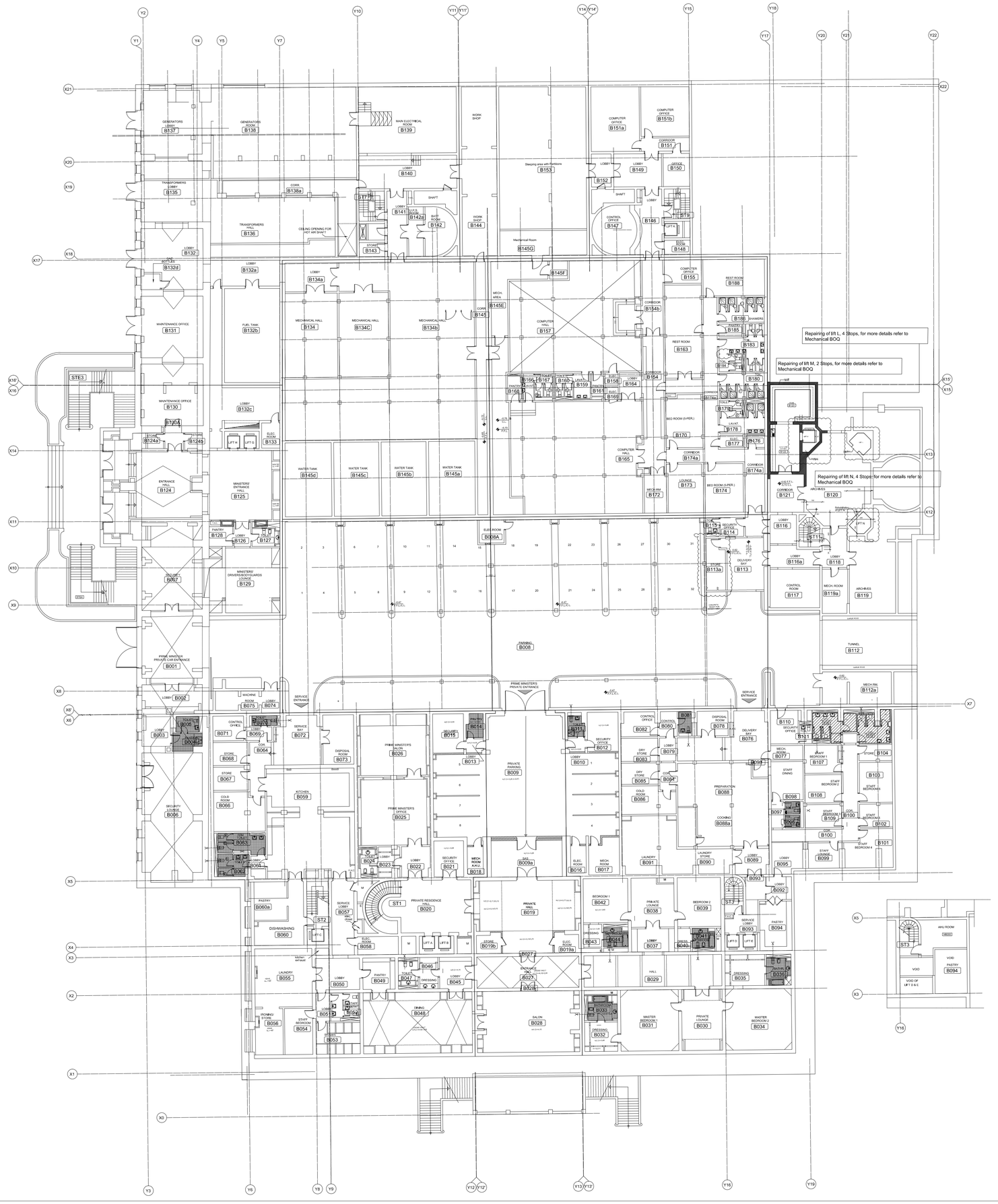
APPROVED BY :AC

SHEET TITLE

External Parking
Wet Areas & RCP

SHEET NO. L1202-CD-E-801-A1

Revision NO. 00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel.: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

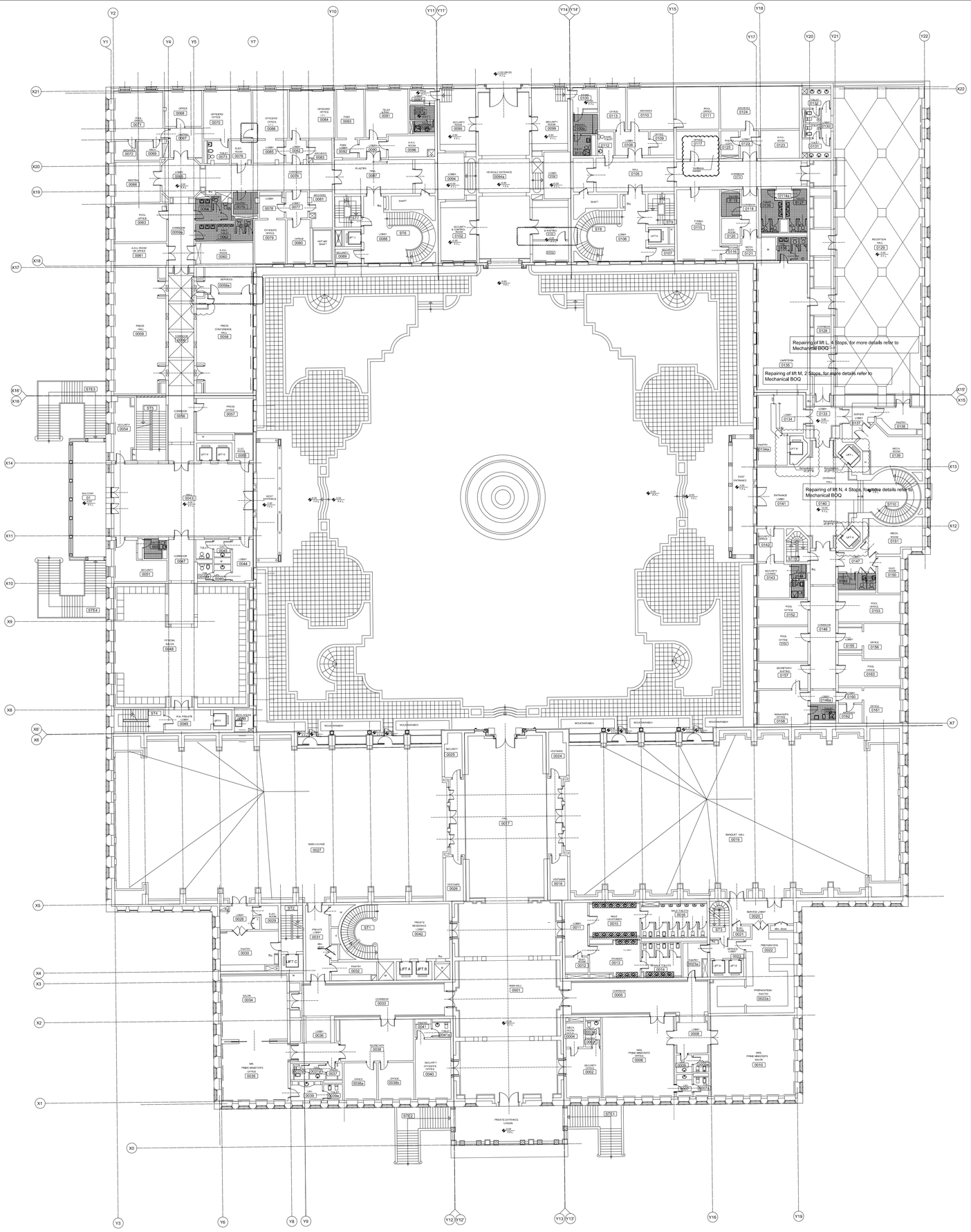
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Basement Floor Lifts Plan

SHEET NO.
L1202-CD-E-900-A1

Revision NO.
00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
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Saida office: Tel.: 07-726004 Tel/Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

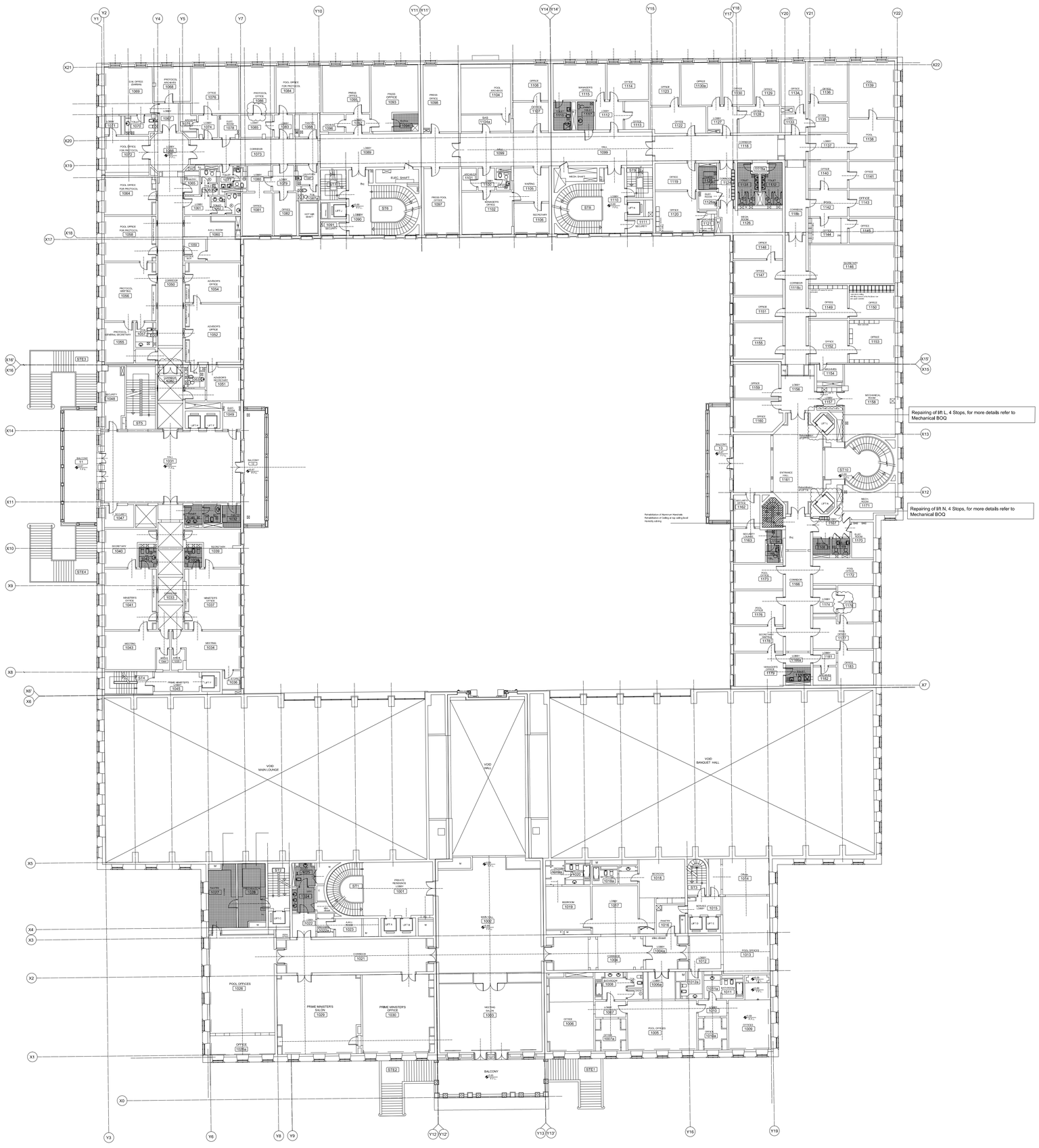
SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Ground Floor Lifts Plan

SHEET NO.
L1202-CD-E-901-A1

Revision NO.
00



OWNER NAME:

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Saida office: Tel.: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:

REHABILITATION OF GRAND SERAIL

CODE No: L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR

0 2m 4m 6m 8m 10m 12m

DATE: May 2022

DRAWN BY:NAJ-MAK

DESIGNED BY:NAJ-MAK

CHECKED BY :BS

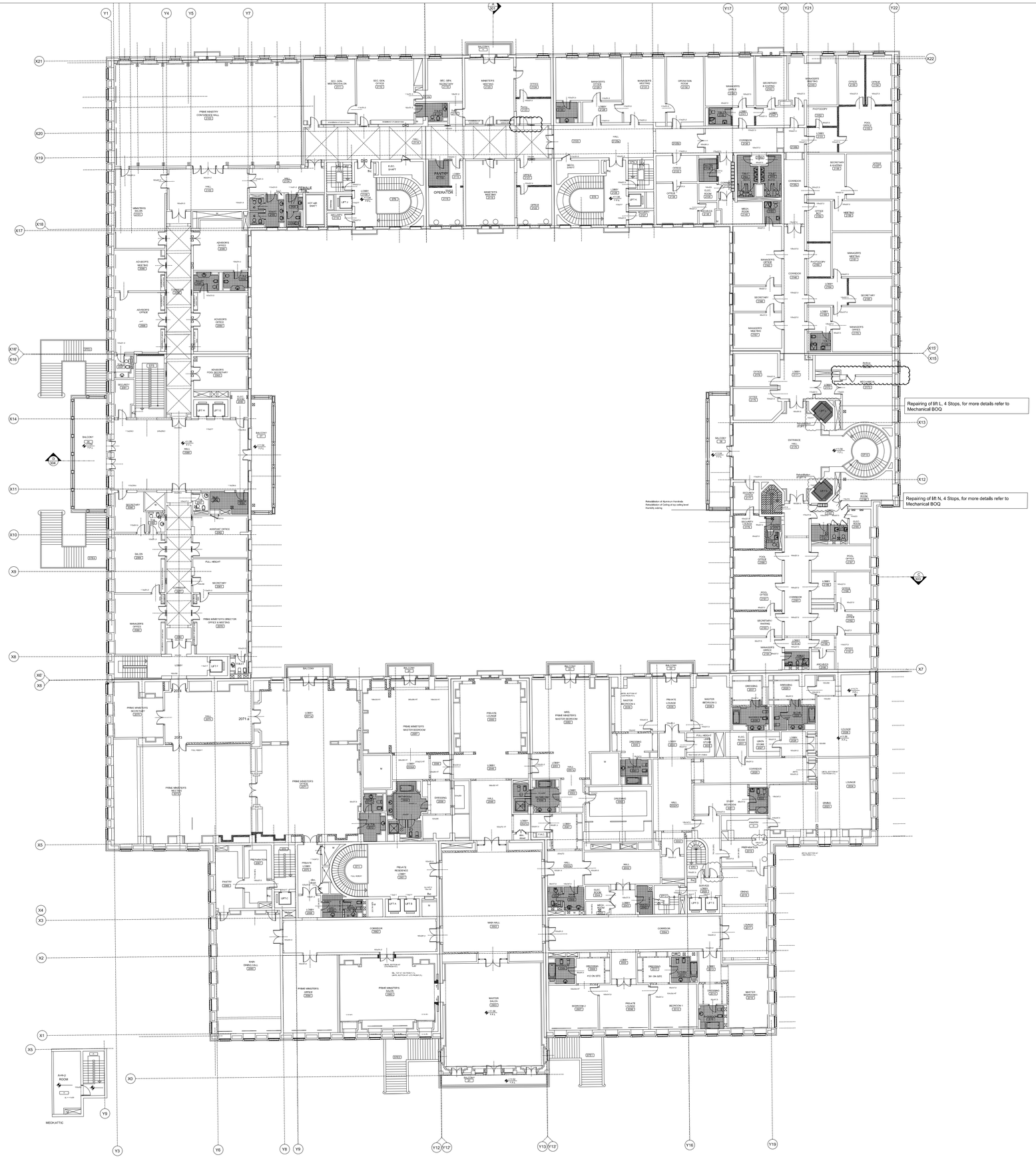
APPROVED BY :AC

SHEET TITLE

First Floor Lifts Plan

SHEET NO. L1202-CD-E-902-A1

Revision NO. 00



OWNER NAME:

CLIENT:

CONSULTANT OFFICE :
A.CHEHAB architects & engineers
Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel.: 07-726004 Tel/Fax : 07-725118
Email: info@LDRS-CO.com

PROJECT NAME:
REHABILITATION OF GRAND SERAIL

CODE No:
L1202

PROJECT LOCATION: Beirut - Lebanon

NOTES:

NORTH:

KEY PLAN:

SCALE BAR
0 2m 4m 6m 8m 10m 12m

DATE: May 2022
DRAWN BY:NAJ-MAK
DESIGNED BY:NAJ-MAK
CHECKED BY :BS
APPROVED BY :AC

SHEET TITLE
Second Floor Lifts Plan

SHEET NO.
L1202-CD-E-903-A1

Revision NO.
00