

- GENERAL NOTES**
- REFER FLOOR LAYOUTS FOR EXACT LOCATIONS OF ALL ELECTRICAL AND COMMUNICATIONS EQUIPMENT.
  - COMMUNICATION CONDUIT CAPPED AT BOUNDARY FOR MIN TO CONDUIT.
  - CONSUMER MAINS CONDUIT AND MEN LEAD-IN CONDUIT RUN UNDERGROUND AND ENTER MSB AND PCD FROM BELOW.
  - REFER TO MEN DRAWINGS FOR COMMUNICATIONS CONDUIT ROUTE.

ITEM	DESCRIPTION	QUANTITY	UNIT
1	MSB/DB-C/DB-EV	1.0 EA	EA
2	Energex Pillar	1.0 EA	EA
3	100/HD/LV Conduit	31.0 M	M
4	50/HD/COMMS Co...	30.5 M	M
5	BD-C	1.0 EA	EA
6	PCD	1.0 EA	EA

THIS DRAWING RESEDES DRAWING 1-0562-E002-P1

**ISSUED FOR TENDER**



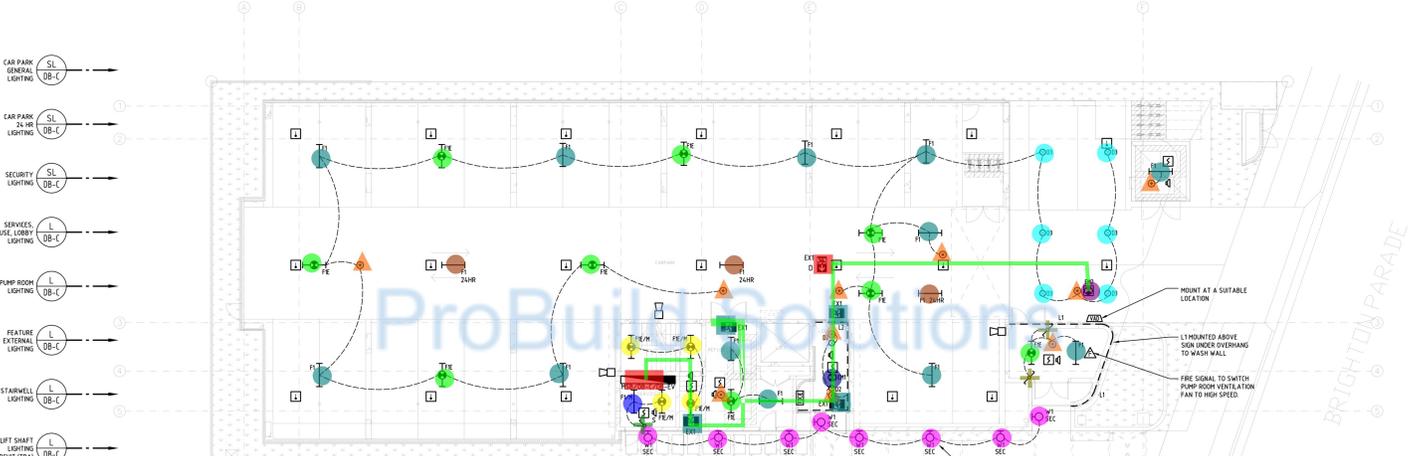
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 28 BRIGHTON PARADE, SOUTHPORT

**ELECTRICAL SERVICES SITE PLAN**  
 SHEET 01 OF 01 SHEET SIZE: A3 MAR '21  
 DRAWING NUMBER: 24-0264/E002  
 SCALE: T3

COORDINATE ALL LIGHTING LOCATIONS WITH SPRINKLER LAYOUT



- Light Fixture - F1
- Light Fixture - F1 24HR
- Light Fixture - F1E
- Light Fixture - F1E/M
- Light Fixture - F1/M
- Light Fixture - W1
- Light Fixture - D3
- Motion Sensor/Photo Voltic Sensor
- 1 gang 1 way switch
- 1 gang 2 way switch
- Light Fixture - EM1
- Light Fixture - EM2
- Light Fixture - EX1
- Light Fixture - EX1 (Directional)
- MSB/DB-C/DB-EV
- 2x2.5mm2 + 2.5mm2 E (Emergency Lighting)

- 12.0 EA
- 3.0 EA
- 9.0 EA
- 4.0 EA
- 1.0 EA
- 8.0 EA
- 6.0 EA
- 10.0 EA
- 1.0 EA
- 2.0 EA
- 1.0 EA
- 1.0 EA
- 4.0 EA
- 1.0 EA
- 1.0 EA
- 48.3 M



- GENERAL NOTES**
- ALL 24HR LIGHTS SHALL BE CIRCUITED TOGETHER AND HAVE A SWITCH IN THE MHS ROOM. THESE LIGHTS ARE IDENTIFIED AS 24HR OPERATION. ALL OTHER LIGHTING WITHIN THE BASEMENT CARPARK SHALL OPERATE ON ACTIVATION VIA MOTION SENSORS. MOTION SENSOR LOCATIONS SHOWN FOR INTENT. ELECTRICAL CONTRACTOR TO SELECT MOTION SENSORS TO ENSURE THE FULL COVERAGE OF THE CARPARK IS ACHIEVED.
  - FIRE SERVICES CONTRACTOR SHALL ALLOW TO TEST SOUND LEVEL AND PROVIDE HOON SPEAKERS AS REQUIRED TO ACHIEVE STANDARD SOUND LEVELS. LOCATIONS SHOWN ARE NORMAL.
  - PROVIDE PASSIVE FIRE PROTECTION FOR ALL PENETRATIONS THROUGH FIRE AND SMOKE BATED WALLS. COORDINATE WITH FIRE REPORT.
  - COORDINATE THE LOCATIONS OF ALL LIGHT FITTINGS WITH THE FIRE, SECURITY, COMMUNICATIONS, HYDRAULICS AND MECHANICAL SERVICES. ALL SERVICES SHALL BE INSTALLED WITH STRAIGHT LINES.
  - ALL CABLING SHALL BE COMPLETELY CONCEALED WHERE POSSIBLE WHICH INCLUDES ALL COMMUNAL OPEN AREAS. CABLES SHALL BE SUPPORTED ON CABLE TRAYS, EXTENDERS, TRAYS AND CONDUIT AND ADEQUATELY SUPPORTED FROM THE STRUCTURE. ALL CABLES SUPPORTED ON CABLE TRAYS OR EXTENDERS SHALL BE NEATLY GROUPED UTILISING CABLE TIES. NO CABLING SHALL BE UNSUPPORTED, LAD ON TOP OF CEILINGS OR SUPPORTED FROM OTHER SERVICES.
  - REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL FIRE RATED BUILDING SURFACES AND WALL AND CEILING TYPE AND COLOUR. ALL ELECTRICAL, SECURITY AND COMMUNICATIONS OUTLETS SHALL MATCH THE SURFACE COLOUR THEY ARE INSTALLED BLACK AND WHITE ONLY.

NO.	REV.	DATE	BY	CHKD	DESCRIPTION
1					ISSUED FOR TENDER
2					
3					
4					
5					
6					
7					
8					
9					
10					

NOTE THIS DRAWING SUPERSEDES DRAWING 21-0562-E003-P1

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**SIXTY STICKS PTY LTD**  
 PROJECT: BRIGHTON APARTMENTS  
 ADDRESS: 28 BRIGHTON PARADE, SOUTHPORT

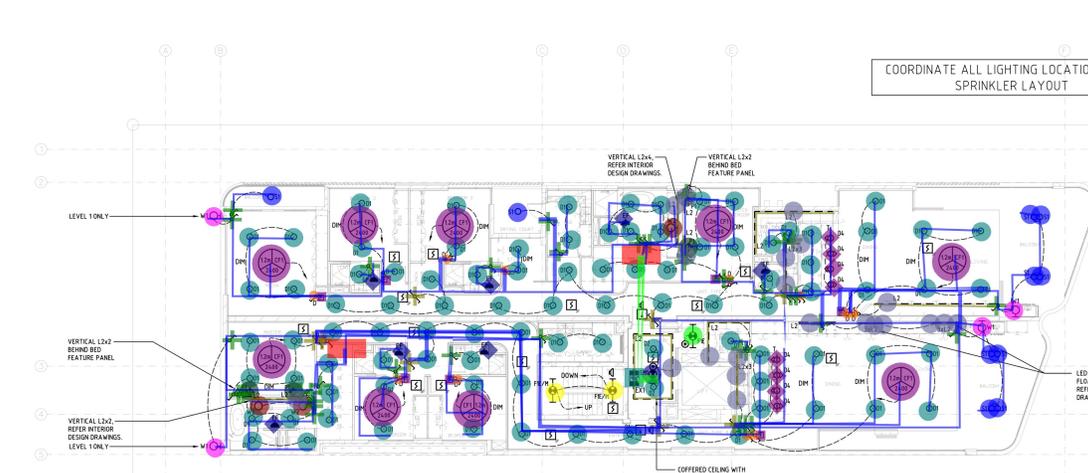
**ELECTRICAL SERVICES GROUND FLOOR LIGHTING LAYOUT**  
 SHEET NO: 24-0264/E003  
 DATE: MAR '22  
 DRAWN BY: TT  
 CHECKED BY: TT



COORDINATE ALL LIGHTING LOCATIONS WITH SPRINKLER LAYOUT

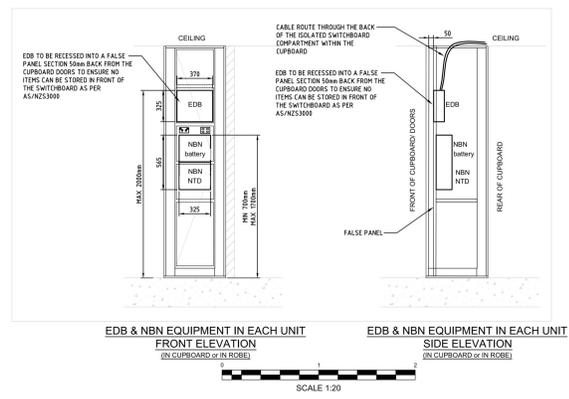
**GENERAL NOTES**

- REFER TO ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN DRAWINGS FOR LAYOUTS.
- SUPPLY POWER TO ELECTRIC CURTAINS AS PER SUPPLIER REQUIREMENTS. COORDINATE REQUIREMENTS WITH THE ARCHITECT AND CLIENT.
- REFER TO ARCHITECTURAL AND INTERIOR DESIGN DRAWINGS TO CAPTURE THE FULL SCOPE OF THE LED STRIP LIGHTING.
- ALL SWITCHGEAR SHALL BE CEILING MOUNTED PUSH BUTTON.
- ALL APARTMENT MESS SUPPLIES SHALL COME FROM THE CORRESPONDING UNITS SWITCHBOARD. COORDINATE THE LOCATIONS ON SITE WITH THE MECHANICAL CONTRACTORS.
- REFER TO THE MECHANICAL DRAWINGS - SUPPLY AND RETAIL ALL POWER SUPPLIES, 338V CABLING, OUTLETS AND SOLATORS AS REQUIRED. BATHROOM FLOOR FAN SHALL BE SWITCHED FROM THE SAME SWITCHPLATE AS THE LIGHTING CIRCUIT.
- REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM ALL CEILING TYPES PRIOR TO HOOD-IN.
- PROVIDE PASSIVE FIRE PROTECTION FOR ALL PENETRATIONS THROUGH FIRE AND SMOKE RATED WALLS. COORDINATE WITH FIRE REPORT.
- COORDINATE THE LOCATIONS OF ALL LIGHT FITTINGS, WITH THE FIRE, SECURITY, COMMUNICATIONS, HYDRAULICS AND MECHANICAL SERVICES. ALL SERVICES SHALL BE INSTALLED WITH STRAIGHT LINES.
- ALL CABLING SHALL BE COMPLETELY CONCEALED WHERE POSSIBLE WHICH INCLUDES ALL CORNER OPEN AREAS. CABLES SHALL BE SUPPORTED IN CABLE TRAYS, CATERPILLAR WIRES, TRUNCS AND CONDUIT AND ADEQUATELY SUPPORTED FROM THE STRUCTURE. ALL CABLES SUPPORTED ON CABLE TRAY OR CATERPILLAR WIRE SHALL BE NEATLY GROUPED USING CABLE TIES. NO CABLING SHALL BE UNSUPPORTED, LAD ON TOP OF CEILING OR SUPPORTED FROM OTHER SERVICES.
- ENSURE ALL OUTLETS LOCATED WITH AREAS EXPOSED TO PRODUCE OR WATER ARE INSTALLED AS PER SECTION 1 OF AS/NZS3000:2018.
- ENSURE ALL METALLIC AND EXPOSED METALLIC SURFACES AND SERVICES ARE EARTHED AND BONDED AS PER SECTION 1 OF AS/NZS3000:2018.
- REFER TO THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL FIRE RATED BUILDING SURFACES AND WALL, AND CEILING TYPE AND COLOUR. ALL ELECTRICAL, SECURITY AND COMMUNICATIONS OUTLETS SHALL MATCH THE SURFACE COLOUR THEY ARE INSTALLED (BLACK AND WHITE ONLY).
- MOTION SENSORS AND PIR LOCATIONS ARE INDICATIVE AND SHOW THE INTENT. THE ELECTRICAL CONTRACTOR SHALL POSITION THESE TO ENSURE NO OBSTRUCTIONS AND FULL COVERAGE AREA IS ACHIEVED.



- Light Fixture - D1
- Light Fixture - W1
- Light Fixture - S1
- Ceiling Fan
- Fan Regulator
- 1 gang 1 way switch Dimmer
- Light Fixture - P1
- Light Fixture - W2
- L2
- Junction box for permanent Connection
- 1 gang 1 way switch
- Track mounted light w/ track run - D4
- Light Fixture - F1E
- Light Fixture - EM1
- Light Fixture - EX1
- Light Fixture - F1E/M
- 1 gang 2 way switch
- Light Fixture - L2
- EDB
- 2x2.5mm<sup>2</sup> + 2.5mm<sup>2</sup> E (Lighting)
- 2x2.5mm<sup>2</sup> + 2.5mm<sup>2</sup> E (Emergency Lighting)

- 94.0 EA
- 4.0 EA
- 10.0 EA
- 9.0 EA
- 8.0 EA
- 11.0 EA
- 3.0 EA
- 3.0 EA
- 46.6 M
- 7.0 EA
- 39.0 EA
- 8.0 EA
- 1.0 EA
- 1.0 EA
- 1.0 EA
- 2.0 EA
- 8.0 EA
- 21.0 EA
- 2.0 EA
- 513.3 M
- 14.8 M

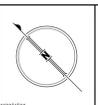


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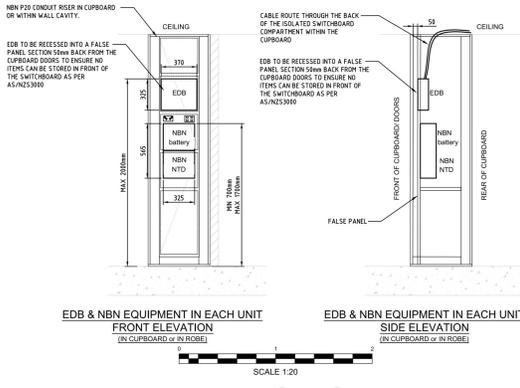
28 BRIGHTON PARADE, SOUTHPORT

**ELECTRICAL SERVICES TYPICAL FLOOR LIGHTING LAYOUT**

28 BRIGHTON PARADE, SOUTHPORT

DATE: MAR '22

24-0264/E005

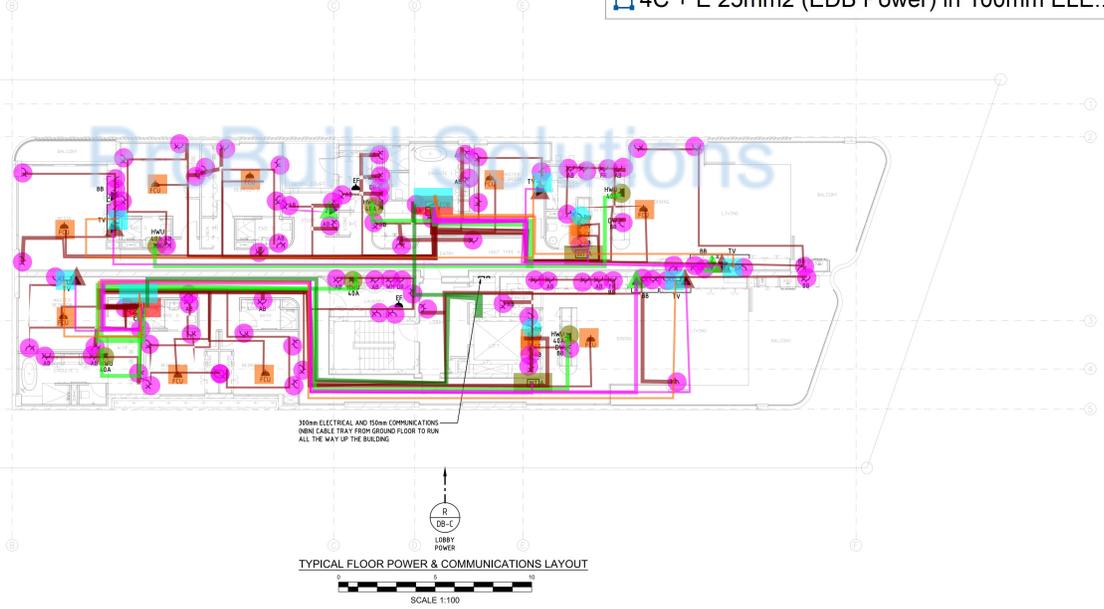


**COORDINATE ALL POWER AND CABLE TRAY WITH SPRINKLER LAYOUT**

- MAXIMUM SWITCHED POWER OUTLETS PER CIRCUIT:**
- 12X SINGLE 10A GPO
  - 6X DOUBLE 10A GPO
  - 2X DOUBLE 10A GPO PER KITCHEN BENCH
  - 1X SINGLE 15A GPO OR FIXED WIRED CONNECTION
  - 1X SINGLE 25A GPO OR FIXED WIRED CONNECTION
  - 1X SINGLE 35A GPO OR FIXED WIRED CONNECTION
  - 1X SINGLE 45A GPO OR FIXED WIRED CONNECTION

- GENERAL NOTE**
- REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT
  - SUPPLY POWER TO ALL REQUIREMENTS. COORD ARCHITECT AND CLIENT
  - REFER TO ARCHITECT TO CAPTURE THE FULL LOCATIONS ON SITE
  - ALL SWITCHGEAR SHALL BE CORRESPONDING UNITS
  - REFER TO THE MECHANICAL INSTALL ALL PUMPERS AND SOLATORS AS REQUIRED. SHALL BE SWITCHED OFF THE LIGHTING CIRCUIT
  - REFER TO ARCHITECT FOR CEILING TYPES AND COORDINATE WITH FIRE

- Single Phase Isolator - 20A **13.0 EA**
- Double 10A GPO **91.0 EA**
- Three phase Isolator 40A **6.0 EA**
- Single Data Outlet **5.0 EA**
- Single 10A GPO **2.0 EA**
- Double Data Outlet **3.0 EA**
- Intercom Panel **2.0 EA**
- EDB **2.0 EA**
- TV **5.0 EA**
- 2C 4mm<sup>2</sup> + 2.5mm<sup>2</sup> E (Small Power) **769.9 M**
- 4C 10mm + E (Equipment Power) **116.4 M**
- CAT6 Wire **325.5 M**
- Network Rack **2.0 EA**
- Coax Wire **119.8 M**
- 4C + E 25mm<sup>2</sup> (EDB Power) in 100mm ELE... **38.8 M**



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PROJECT	BRIGHTON APARTMENTS
DATE	MAR '24
SHEET NO.	24-0264/E006
TITLE	ELECTRICAL SERVICES TYPICAL FLOOR POWER & COMMUNICATIONS LAYOUT
SCALE	AS SHOWN



COORDINATE ALL POWER AND CABLE TRAY WITH SPRINKLER LAYOUT

**GENERAL NOTES:**

- REFER TO ARCHITECTURAL DRAWINGS AND INTERIOR DESIGN DRAWINGS FOR LAYOUTS
- CONFIRM REQUIREMENTS FOR HOT WATER UNITS WITH HYDRAULIC SERVICES.
- POWER SUPPLIES FOR AIR-CONDITIONING FAN COIL UNITS ARE SHOWN INDICATIVE ONLY. COORDINATE LOCATION AND RATING WITH MECHANICAL CONTRACTOR BEFORE INSTALLATION.
- LIFT POWER AND TELEPHONE SHALL BE CONFIRMED

**SPECIFIC NOTES** (N)

- N1. THIS DRAWING ONLY**
- N1. TOP FLOOR ONLY - LIFT POWER AND TELEPHONE SHALL BE CONFIRMED AND CO-ORDINATE WITH LIFT CONTRACTOR. LIFT PHONE SHALL BE GSM BASED SYSTEM REFER SCHEMATIC FOR LIFT POWER ALLOWANCE.
- N2. FIRE DETECTION SHALL BE INSTALLED AT THE TOP OF LIFT SHAFTS AND POWERED BY A SEPARATE ZONE. THE DETECTORS CAN BE DONE USING VESDA HEAD POSITIONED OUTSIDE THE SHAFT WITH VESDA PIPEWORK PENETRATING THE SHAFT. ALTERNATIVELY THIS CAN BE ACHIEVED BY INSTALLING SMOKE DETECTORS WITH A DETACHABLE BRACKET WITHIN THE FIRE RATED ENCLOSURE THAT IS FITTED TO THE LIFT SHAFT WALL AND ACCESSIBLE VIA ACCESS PANEL.

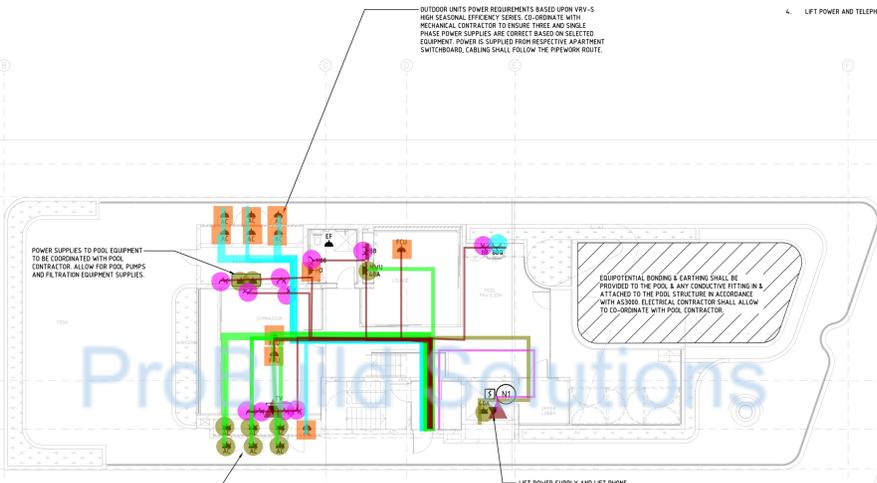
OUTDOOR UNITS POWER REQUIREMENTS BASED UPON VRF-S HIGH SEASONAL EFFICIENCY SERIES. CO-ORDINATE WITH MECHANICAL CONTRACTOR TO ENSURE THREE AND SINGLE PHASE POWER SUPPLIES ARE CORRECT BASED ON SELECTED EQUIPMENT. POWER IS SUPPLIED FROM RESPECTIVE APARTMENT SWITCHBOARD. CABLING SHALL FOLLOW THE PIPEWORK ROUTE.

POWER SUPPLIES TO POOL EQUIPMENT TO BE COORDINATED WITH POOL CONTRACTOR. ALLOW FOR POOL PUMPS AND FILTRATION EQUIPMENT SUPPLIES.

EQUIPOTENTIAL BONDING & EARTHING SHALL BE PROVIDED TO THE POOL, & ANY CONDUCTIVE FITTING IN & ATTACHED TO THE POOL STRUCTURE IN ACCORDANCE WITH AS3000. ELECTRICAL CONTRACTOR SHALL ALLOW TO CO-ORDINATE WITH POOL CONTRACTOR.

LIFT POWER SUPPLY AND LIFT PHONE SHALL BE CO-ORDINATED WITH LIFT CONTRACTOR BEFORE INSTALLATION. LIFT PHONE SHALL BE GSM BASED SYSTEM.

- HAND DRYER (R) DB-C
- GYMNASIUM GPO (R) DB-C
- GPO (R) DB-C
- LOUNGE AIR CONDITIONING (R) DB-C
- GYMNASIUM AIR CONDITIONING (R) DB-C
- LIFT (P) DB-C
- POOL EQUIPMENT (R) DB-C
- H/W (P) DB-C



● Single Phase Isolator - 20A	11.0 EA
● Three phase Isolator 40A	10.0 EA
● Double 10A GPO	11.0 EA
● Single 10A GPO	1.0 EA
● Single Data Outlet	2.0 EA
▢ 2C 10mm + E	115.4 M
▢ 4C 10mm + E (Equipment Power)	126.4 M
▢ 4C 16mm + E (Equipment Power)	17.4 M
▢ 2C 4mm <sup>2</sup> + 2.5mm <sup>2</sup> E (Small Power)	120.4 M
▢ CAT6 Wire	14.3 M

ROOF TERRACE POWER & COMMUNICATIONS LAYOUT  
SCALE 1:100

NO.	REV.	DATE	BY	CHKD	DESCRIPTION
1		21/05/21			ISSUED FOR TENDER
2		21/05/21			REVISED

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PROJECT: BRIGHTON APARTMENTS

28 BRIGHTON PARADE, SOUTHPORT

**ELECTRICAL SERVICES ROOF TERRACE POWER & COMMUNICATIONS LAYOUT**

DATE: 21/05/21  
BY: [Signature]  
CHKD: [Signature]

PROJECT NO: 24-0264/E008

SHEET NO: 11  
TOTAL SHEETS: 12