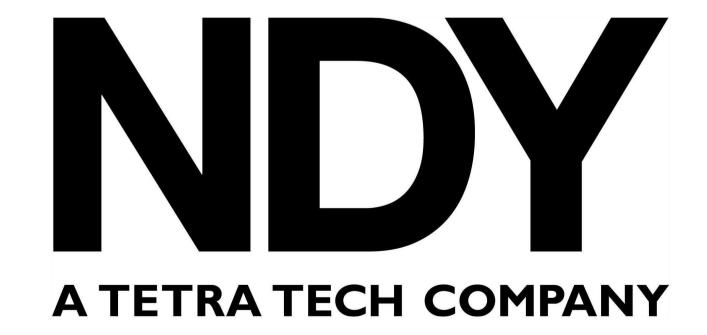
SINSW - DUNDAS PUBLIC SCHOOL UPGRADE

ELECTRICAL DRAWING SET

NDY | SCHEMATIC DESIGN

SHEET NUMBER	SHEET NAME	REVISION	REVISION DATE
DUPS-NDY-XX-XX-DR-E-000000	COVER SHEET	5	08/01/2025
DUPS-NDY-XX-XX-DR-E-000001	LEGEND & GENERAL NOTES	5	08/01/2025
DUPS-NDY-XX-XX-DR-E-000011	SINGLE LINE DIAGRAM	4	08/01/2025
DUPS-NDY-XX-XX-DR-E-000021	EDB SCHEMATIC	3	08/01/2025
DUPS-NDY-XX-XX-DR-E-000031	COMMUNICATIONS SCHEMATIC	4	08/01/2025
DUPS-NDY-00-00-DR-E-001011	SITE PLAN	5	08/01/2025
DUPS-NDY-B00L-GF-DR-E-120011	BLOCK L GROUND FLOOR LIGHTING ARRANGEMENT	3	08/01/2025
DUPS-NDY-B00L-GF-DR-E-120021	BLOCK L GROUND FLOOR POWER AND COMMUNICATIONS ARRANGEMENT	5	08/01/2025
DLIPS-NDY-R00L-RF-DR-F-120121	BLOCK L BOOF POWER AND COMMUNICATIONS ARRANGEMENT	4	08/01/2025





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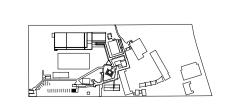
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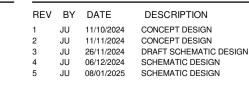








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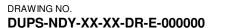
COVER SHEET

DRAWING TITLE **ELECTRICAL SERVICES**

SCHEMATIC DESIGN

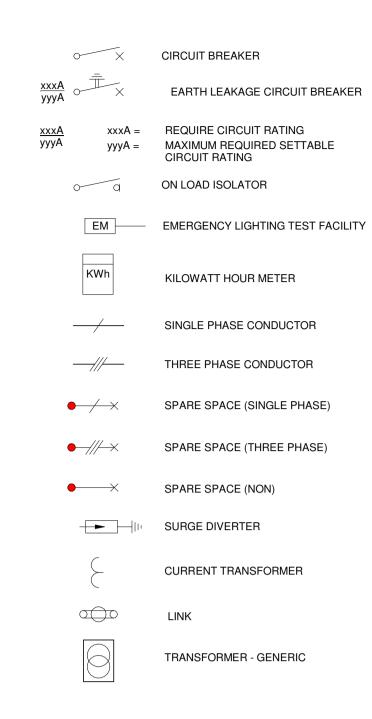
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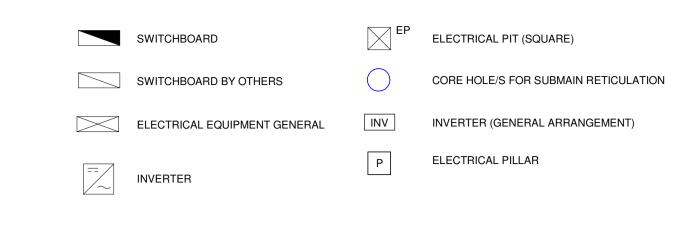
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ELECTRICAL SYMBOLS

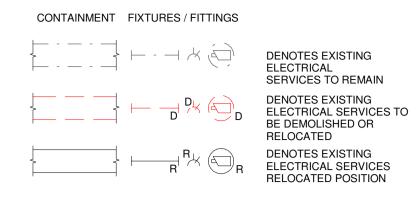




COMMUNICATIONS SYMBOLS

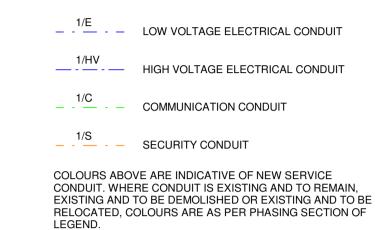


PHASING



LINETYPE FOR RELOCATED OR NEW CABLETRAY/CONDUIT DETERMINED BY SYSTEM

CONDUIT



CABLE TRAY



EXAMPLE - 300ECT - 300 DENOTES WIDTH

CONDUIT, SIZE AS INDICATE

1: INDICATES NUMBER OF CONDUITS E: INDICATES ELECTRICAL CONDUIT

C: INDICATES COMMUNICATIONS CONDUIT

DENOTES SERVICE E = POWERC = COMMUNICATIONS S = SECURITY B = BMS

DENOTES CABLE CONTAINMENT TYPE CT = CABLE TRAY CL = CABLE LADDERS CB = CABLE BASKET

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS.
- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SERVICES SPECIFICATIONS.
- DO NOT SCALE FOR SIZING. REFER TO ARCHITECTURAL, MANUFACTURERS DOCUMENTATION AND SPECIFICATION FOR EXACT MEASUREMENTS.
- CONTRACTOR TO CONDUCT FULL SITE SURVEY TO CONFIRM EXACT LOCATIONS OF ALL EXISTING ELECTRICAL SERVICES AND EQUIPMENT.
- ALL WORKS ARE NEW UNLESS NOTED OTHERWISE.
- EACH CAPTIVE SCREW OUT SHALL BE ON A DEDICATED CIRCUIT. EACH PAIR OF OUTLETS PROVIDED TO A RACK SHALL BE ON THE SAME PHASE.
- THE CONTRACTOR IS TO REFER TO THE SSU BRIEF FOR THE SECURITY SCOPE AND TECHNICAL REQUIREMENTS.
- ALL NEW DATA CABLING IS TO MEET THE DoE STRUCTURED CABLING SYSTEM SPECIFICATION v1.4
- THE CONTRACTOR IS TO REFER TO THE NSW PUBLIC SCHOOLS AUDIO-VISUAL STANDARDS FOR SCHOOL LEARNING DISPLAYS FOR AV SCOPE AND TECHNICAL REQUIREMENTS.

ELECTRICAL ABBREVIATIONS

DGPO DOUBLE GENERAL PURPOSE OUTLET

- DTO DOUBLE TELECOMMUNICATIONS OUTLET
- GENERAL PURPOSE OUTLET GPO
- LED LIGHT EMITTING DIODE
- **RACK UNIT**
- TELECOMMUNICATIONS OUTLET
- WEATHER PROOF
- SINGLE TELECOMMUNICATIONS OUTLET



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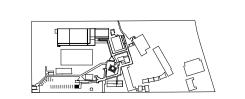
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SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 BLOCK L

ELECTRICAL SERVICES

LEGEND & GENERAL NOTES

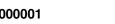
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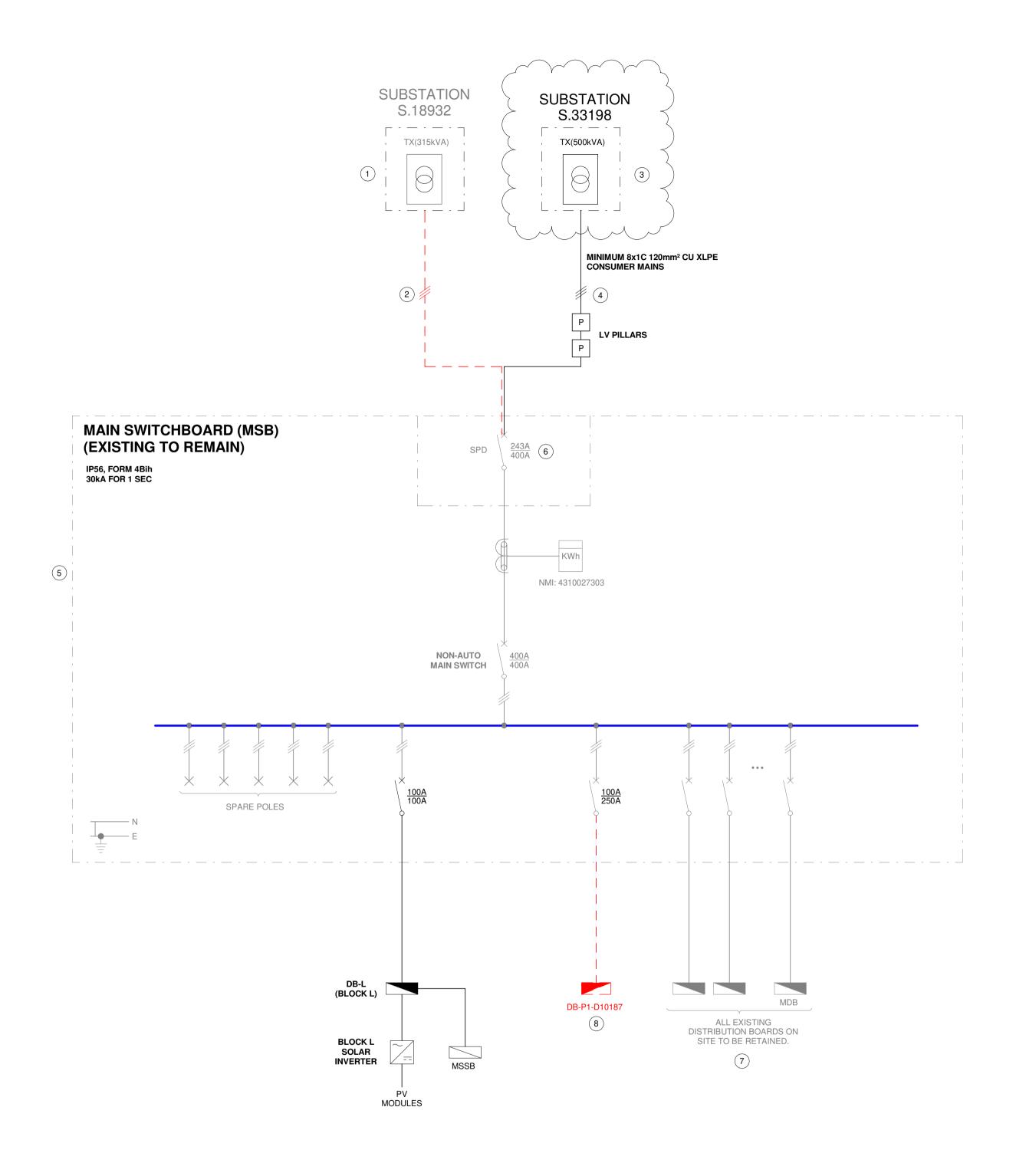
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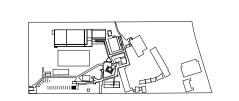
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SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 BLOCK L

SINGLE LINE DIAGRAM

DRAWING TITLE **ELECTRICAL SERVICES**

758-0120.0041152.0001

DESCRIPTION

1 EXISTING SUPPLY FROM ENDEAVOUR ENERGY POLE-MOUNTED SUBSTATION ON KISSING POINT ROAD

POLE-MOUNTED SUBSTATION TO BE DISCONNECTED

EXISTING SUBSTATION ON KISSING POINT ROAD IS TO

BE UPGRADED FROM A 315kVA TRANSFORMER TO 500kVA IN SITU. NEW LV SUPPLY CONNECTION FOR THE SCHOOL MSB TO BE ESTABLISHED ON THE UPGRADED

4 NEW CONSUMER MAINS TO BE ESTABLISHED BETWEEN EXISTING MSB AND NEW AUTHORITY CONNECTION POINT AT PROPERTY BOUNDARY. EXISTING CONSUMER MAINS TO BE DISCONNECTED, AND ASSOCIATED

6 EXISTING SERVICE PROTECTION DEVICE TRIP RATING

8 EXISTING DB-P1-D10187 AND OUTGOING SUBMAINS TO

DEMOUNTABLES TO BE DISCONNECTED AND REMOVED.

EXISTING MAIN SWITCHBOARD (EXTERNAL TO BLOCK A) TO REMAIN WITH MODIFICATION'S AS SHOWN. NEW OUTGOING SUBMAIN TO BLOCK L TO CONNECT TO

CONDUITS ABANDONED IN SITU.

TO BE INCREASED TO 243A.

7 EXISTING SUBMAIN CIRCUITS TO EXISTING DISTRIBUTION BOARDS TO BE RETAINED.

2 EXISTING IN-GROUND CONSUMERS MAINS, PRIVATE POLE AND OVERHEAD SERVICE MAINS TO EXISTING

TO BE DISCONNECTED.

AND REMOVED.

SUBSTATION.

EXISTING MSB.

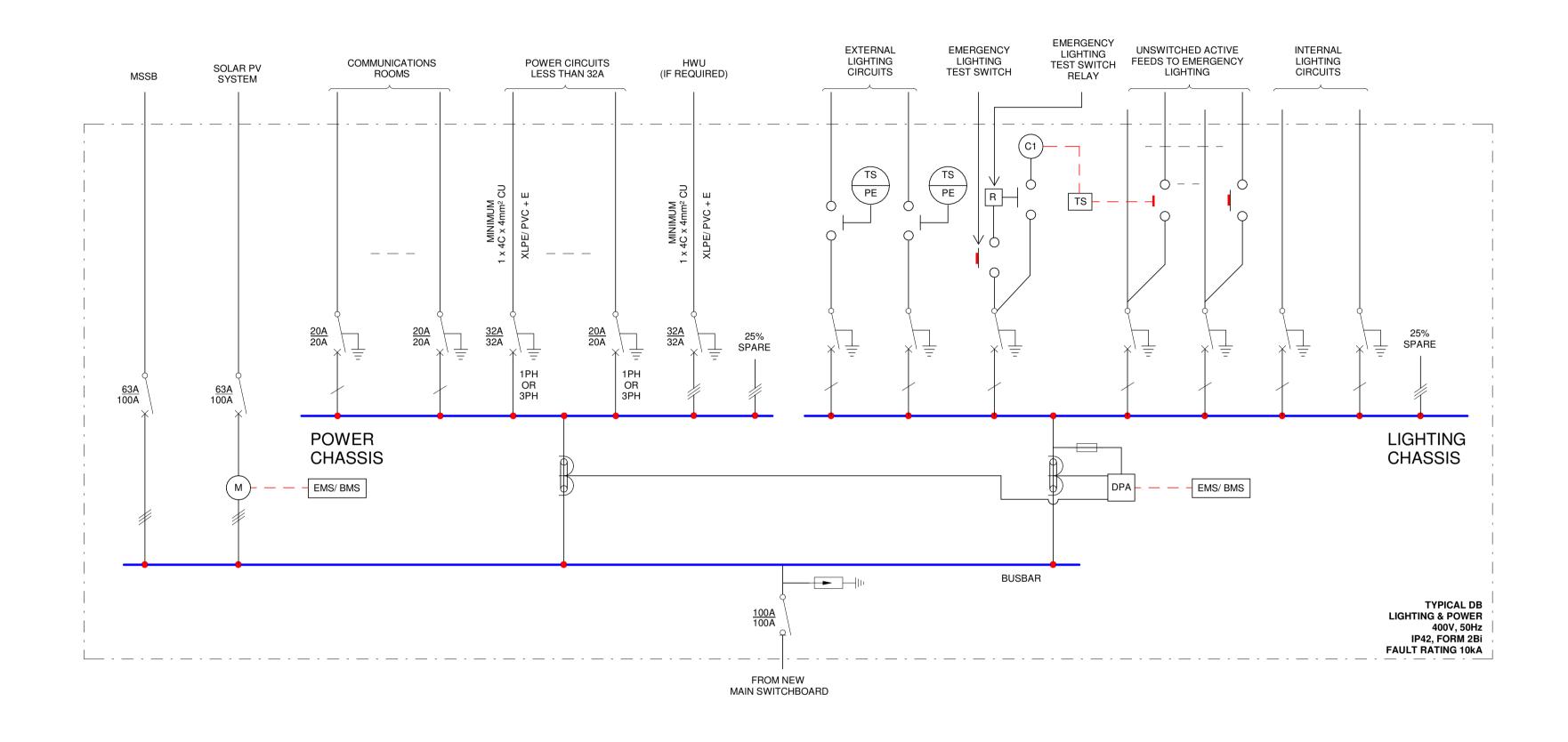
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SCHEMATIC DESIGN

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 2
 JU
 06/12/2024
 SCHEMATIC DESIGN

 3
 JU
 08/01/2025
 SCHEMATIC DESIGN

PROJECT NAME SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 **BLOCK L**

EDB SCHEMATIC

SCHEMATIC DESIGN DRAWING TITLE **ELECTRICAL SERVICES**

 DRW
 CHK
 APP
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PROJECT NO.

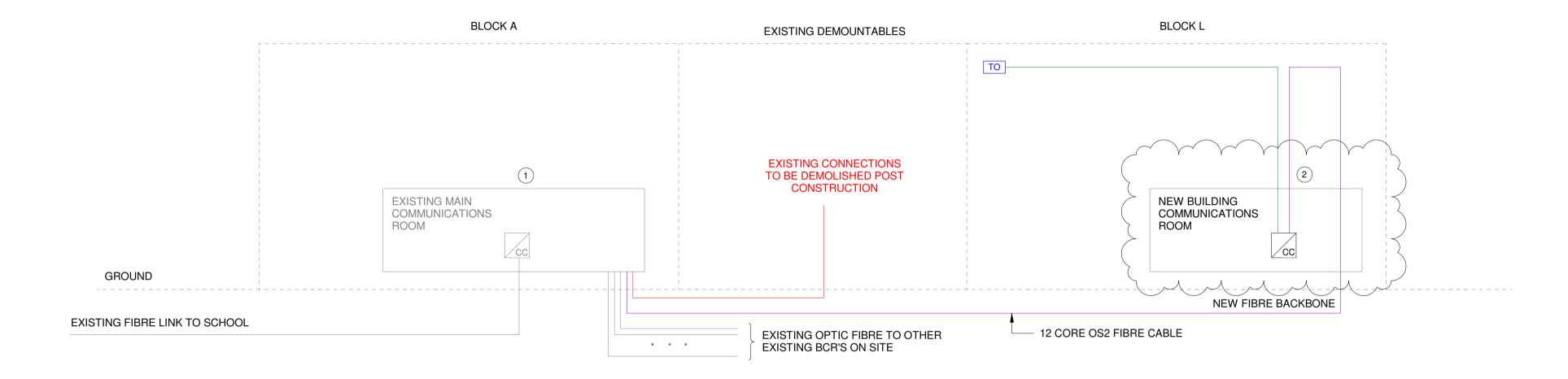
758-0120.0041152.0001

LEGEND TELECOMMUNICATIONS OUTLETS FOR BUILDING SERVICES COMMUNICATIONS RACK. OPTICAL FIBRE CAT6A STRUCTURED CABLE

EXISTNG EQUIPMENT/ SERVICE TO BE RETAINED IN CURRENT LOCATION.

DESCRIPTION No.

- 1 EXISTING MAIN COMMUNICATIONS RACK TO BE MAINTAINED WITHIN BLOCK A. UPGRADES TO THE MAIN COMMUNICATIONS RACK SHALL BE IN ALIGNMENT WITH THE ICT SURVEY INFORMATION PROVIDED.
- NEW BUILDING COMMUNICATIONS ROOM TO BE LOCATED IN THE SERVICES CORE OF NEW BLOCK L. HORIZONTAL CABLING TO BE CAT6A AND BE RETICULATED AT HIGH LEVEL. SEE POWER AND COMMUNICATIONS ARRANGEMENTS FOR DETAILS. NUMBER OF COMMUNICATIONS RACKS TO BE DETERMINED IN COLLABORATION WITH DOE ITD. BCR TO BE CONNECTED TO EXISTING MCR USING IN-GROUND FIBRE OPTICS AS SHOWN ON THE SITE PLAN.



GENERAL NOTES

- ALLOW FOR REPLACEMENT OF 28 EXISTING WIRELESS ACCESS POINTS WITHIN EXISTING BUILDINGS. QUANTITIES AND SCOPE ARE TO BE AS PER THE LATEST DUNDAS ICT SURVEY.
- ALLOW FOR REPLACEMENT OF EXISTING NEC PABX SYSTEM. NEW TIPT VOIP SYSTEM TO BE PROVIDED. CONTRACTOR TO INVESTIGATE CABLING TO TELEPHONE AND ALLOW FOR NEW STRUCTURED CABLING AS REQUIRED. SCOPE OF WORKS TO BE AS PER THE LATEST DUNDAS ICT SURVEY.



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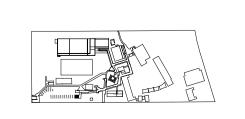
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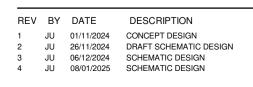
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SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 BLOCK L

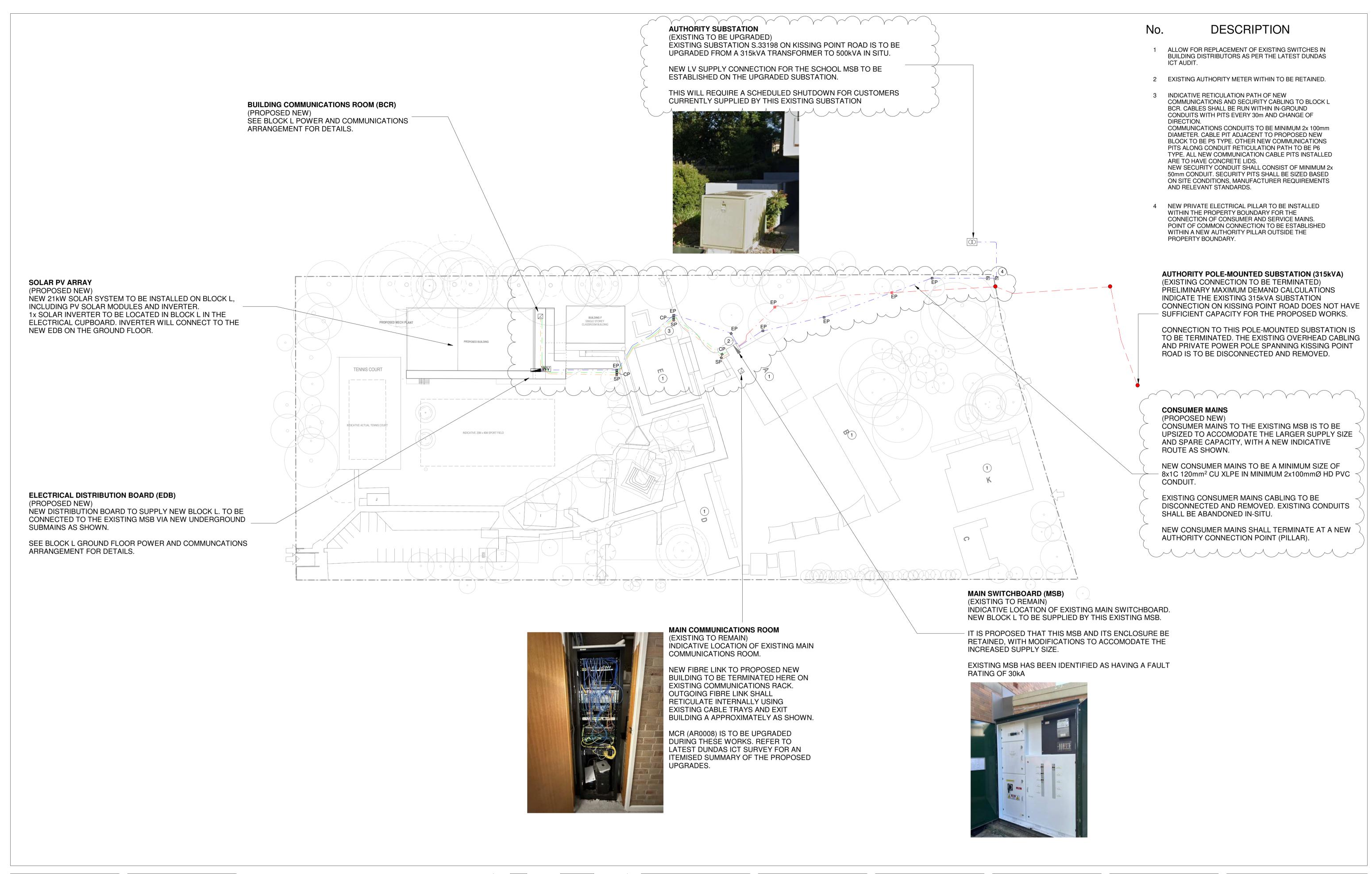
COMMUNICATIONS SCHEMATIC

758-0120.0041152.0001

SCHEMATIC DESIGN DRAWING TITLE **ELECTRICAL SERVICES**

DRW | CHK | APP | DATE BC DH SS 08/01/2025 1:100 @A1

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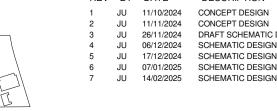
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SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 **BLOCK L**

SITE PLAN

DRAWING TITLE **ELECTRICAL SERVICES** 758-0120.0041152.0001

SCHEMATIC DESIGN

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DRAWING NO.

LIGHTING DESIGN LEGEND

80 LUX AVERAGE HORIZONTAL ILLUMINANCE AS PER EFSFG AND AS/NZS AS1680.2.1-2008 TABLE D1 UGR AS PER EFSFG AND PER AS/NZS AS1680.1-2006 TABLE 8.2 LIGHTING UNIFORMITY AS PER EFSFG AND AS/NZS AS1680.1-2006 TABLE 3.2

160 LUX AVERAGE HORIZONTAL ILLUMINANCE AS PER EFSFG AND AS/NZS AS1680.2.1-2008 TABLE D1 UGR AS PER EFSFG AND PER AS/NZS AS1680.1-2006 TABLE 8.2 LIGHTING UNIFORMITY AS PER EFSFG AND AS/NZS AS1680.1-2006 TABLE 3.2

240 LUX AVERAGE HORIZONTAL ILLUMINANCE AS PER EFSFG AND AS/NZS AS1680.2.1-2008 TABLE D1 UGR AS PER EFSFG AND PER AS/NZS AS1680.1-2006 TABLE 8.2

LIGHTING UNIFORMITY AS PER EFSFG AND AS/NZS AS1680.1-2006 TABLE 3.2

320 LUX AVERAGE HORIZONTAL ILLUMINANCE AS PER EFSFG AND AS/NZS AS1680.2.1-2008 TABLE D1 UGR AS PER EFSFG AND PER AS/NZS AS1680.1-2006 TABLE 8.2 LIGHTING UNIFORMITY AS PER EFSFG AND AS/NZS AS1680.1-2006 TABLE 3.2

400 LUX AVERAGE HORIZONTAL ILLUMINANCE AS PER EFSFG AND AS/NZS AS1680.2.1-2008 TABLE D1 UGR AS PER EFSFG AND PER AS/NZS AS1680.1-2006 TABLE 8.2 LIGHTING UNIFORMITY AS PER EFSFG AND AS/NZS AS1680.1-2006 TABLE 3.2

GENERAL LIGHTING WITHIN STAFF AREAS, LEARNING AREAS, INTERVIEW ROOMS ETC. TO BE PROVIDED INDICATIVELY BY CEILING RECESSED LED PANEL TYPE LUMINAIRES. FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE CONDUCTED DURING DETAILED DESIGN AND COORDINATED WITH THE PATTERN BOOK AND EFSG.



GENERAL LIGHTING WITHIN AMENITIES AND CLEANERS ROOMS TO BE PROVIDED INDICATIVELY BY RECESSED IP65 LED DOWNLIGHTS. FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE CONDUCTED DURING DETAILED DESIGN AND COORDINATED WITH THE PATTERN BOOK AND EFSG.



CONDUCTED DURING DETAILED DESIGN AND

GENERAL LIGHTING WITHIN COMMON AREAS, CORRIDORS,

ETC TO BE PROVIDED INDICATIVELY BY RECESSED LED

FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE

COORDINATED WITH THE PATTERN BOOK AND EFSG.

LIGHTING WITHIN ACCESSIBLE AMMENITIES PROVIDED INDICATIVELY BY RECESSED IP65 RECESSED LED DOWNLIGHTS AND INFRARED HEAT LAMPS. FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE CONDUCTED DURING DETAILED DESIGN AND COORDINATED WITH THE PATTERN BOOK AND EFSG.



GENERAL LIGHTING WITHIN STORE ROOMS, ELECTRICAL CUPBOARDS,

BUILDING COMUNICATION ROOMS TO BE PROVIDED INDICATIVELY BY

FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE CONDUCTED

SURFACE MOUNTED LED BATTENS.

GENERAL LIGHTING WITHIN EXTERNAL AREAS INCLUDING COLA, STAIRS, EXTERNAL CORRIDORS AND WALKWAYS TO BE PROVIDED INDICATIVELY BY IMPACT RESISTANT, WEATHERPROOF SURFACE MOUNTED LED BATTENS. FINAL CONFIRMATION OF LUMINAIRE SELECTIONS TO BE CONDUCTED DURING DETAILED DESIGN AND COORDINATED WITH THE PATTERN BOOK AND EFSG.

GENERAL NOTES

- THE LIGHTING ARRANGEMENT SHOWN IS PRELIMINARY, AND IS SHOWN FOR BUDGET PURPOSES ONLY. THE LIGHTING LAYOUT IS TO BE DEVELOPED FURTHER IN DETAILED DESIGN IN CONJUNCTION WITH THE EFSG AND THE PATTERN BOOK.
- A DIGITAL ADDRESSABLE CONTROL SYSTEM (DALI) IS TO BE PROVIDED FOR LIGHTING CONTROL. LUMINAIRES ARE TO BE DALI DIMMABLE.
- INDICATIVELY, INTERNAL LUMINAIRES SHOULD BE CONTROLLED VIA MOTION SENSORS AND SWITCH PLATES WITH TIMER SHUTOFF. FINAL STRATEGY TO BE DEVELOPED IN DETAILED IN CONJUNCTION WITH THE EFSG AND THE PATTERN BOOK.
- INDICATIVELY, EXTERNAL LUMINAIRES SHOULD BE CONTROLLED VIA MOTION SENSORS AND PHOTOCELLS WITH TIMER SHUTOFF. FINAL STRATEGY TO BE DEVELOPED IN DETAILED IN CONJUNCTION WITH THE EFSG AND THE PATTERN BOOK.
- EMERGENCY LUMINAIRES AND EXIT SIGNS ARE TO BE PROVIDED IN ACCORDANCE WITH THE NCC AND AS/NZS 2293.1-2018. AN EMERGENCY LIGHTING TEST SWITCH IS TO BE PROVIDED AT THE LOCAL ELECTRICAL DISTRIBUTION BOARD.





DOWNLIGHTS.







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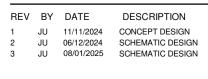
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SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 **BLOCK L**

BLOCK L GROUND FLOOR LIGHTING

DRAWING TITLE

ARRANGEMENT

DRW | CHK | APP | DATE BC DH SS 08/01/2025 1:100@A1 **ELECTRICAL SERVICES**

SCHEMATIC DESIGN

758-0120.0041152.0001

DRAWING NO.



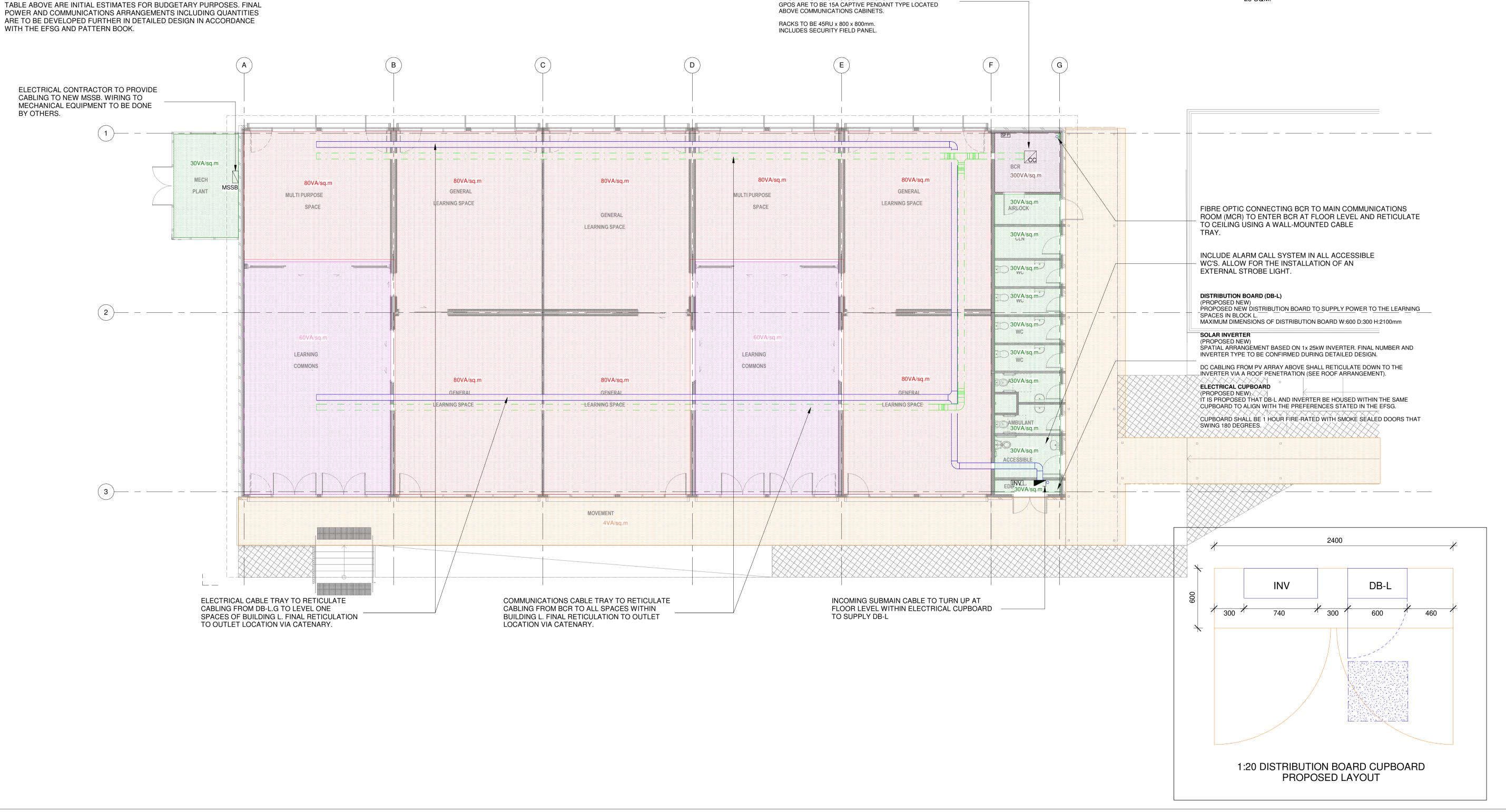
INDICATIVE POWER AND TELECOMMUNICATIONS OUTLETS QUANTITIES BY LOCATION

ROOM TYPE	ROOM QUANTITY	<u>GPO</u>	DGPO	DTO	CAPTIVE OUTLETS	<u>STO</u>
WC, ACC. WC, AMB. WC	7	1	-	-	-	-
CLEANER ROOMS	1	-	1 (WP)	-	-	-
AIR LOCK	1	1	-	-	-	-
DB+INVERTER CUPBOARDS	1	-	2	2	-	-
BCR	1	-	4	2	2	-
LEARNING COMMONS	2	1	4	4	-	2
MULTIPURPOSE SPACE	2	1	3	3	-	-
GENERAL LEARNING SPACE	6	3	4	3	-	2
PLANT	1	1 (WP)	-	-	-	-

POWER AND COMMUNICATIONS OUTLETS ALLOWANCES LISTED IN THE TABLE ABOVE ARE INITIAL ESTIMATES FOR BUDGETARY PURPOSES. FINAL POWER AND COMMUNICATIONS ARRANGEMENTS INCLUDING QUANTITIES ARE TO BE DEVELOPED FURTHER IN DETAILED DESIGN IN ACCORDANCE

GENERAL NOTES

- ELECTRICAL CABLE TRAY SIZING IS TO BE CONFIRMED DURING DETAILED DESIGN IN ACCORDANCE WITH THE EFSG, PATTERN BOOK AND AS3000.
- COMMUNICATIONS CABLE TRAY IS TO BE CONFIRMED DURING DETAILED DESIGN IN ACCORDANCE WITH THE EFSG AND PATTERN BOOK.
- CABLE TRAYS ARE TO BE INSTALLED AT HIGH LEVEL IN THE CEILING VOID AND TO HIDDEN FROM VIEW.
- VA/SQM VALUES SHOWS ARE AS USED FOR SCHEMATIC DESIGN MAXIMUM DEMAND. THE MAXIMUM DEMAND IS TO BE CONFIRMED OR REFINED DURING DETAILED DESIGN.
- THE EXISTING CAMPUS PERIOD BELL AND PUBLIC ADDRESS SYSTEM IS TO BE EXPANDED TO INCLUDE THE NEW BUILDING.
- FANS ARE TO BE PROVIDED IN THE SLSO OFFICE, GENERAL LEARNING SPACES, LEARNING COMMONS AND MULTIPURPOSE SPACES AS PER THE EFSG AND PATTERN BOOK. INDICATIVE ALLOWANCES ARE LISTED BELOW:
- ALLOW ONE CEILING FAN FOR INTERNAL SPACES WITH FLOOR AREA BETWEEN 13 TO 25
- ALLOW ONE CEILING FAN PER 25 SQM FOR INTERNAL SPACES WITH FLOOR AREA EXCEEDING 25 SQM.



BUILDING COMMUNICATIONS ROOM (BCR)

INFORMATION TECHNOLOGY DIRECTORATE.

NUMBER AND LOCATION OF COMMUNICATIONS CABINETS ARE

INDICATIVE ONLY AND TO BE DETERMINED BY SCHOOLS



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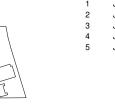
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REV BY DATE DESCRIPTION 1 JU 11/10/2024 CONCEPT DESIGN JU 11/11/2024 CONCEPT DESIGN JU 26/11/2024 DRAFT SCHEMATIC DESIGN JU 06/12/2024 SCHEMATIC DESIGN 5 JU 08/01/2025 SCHEMATIC DESIGN

SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 BLOCK L

ELECTRICAL SERVICES

AND COMMUNICATIONS

DRAWING TITLE

ARRANGEMENT

758-0120.0041152.0001 SCHEMATIC DESIGN

DRW | CHK | APP | DATE **BLOCK L GROUND FLOOR POWER**

BC DH SS 08/01/2025 1:100@A1 DRAWING NO.

DUPS-NDY-B00L-GF-DR-E-120021

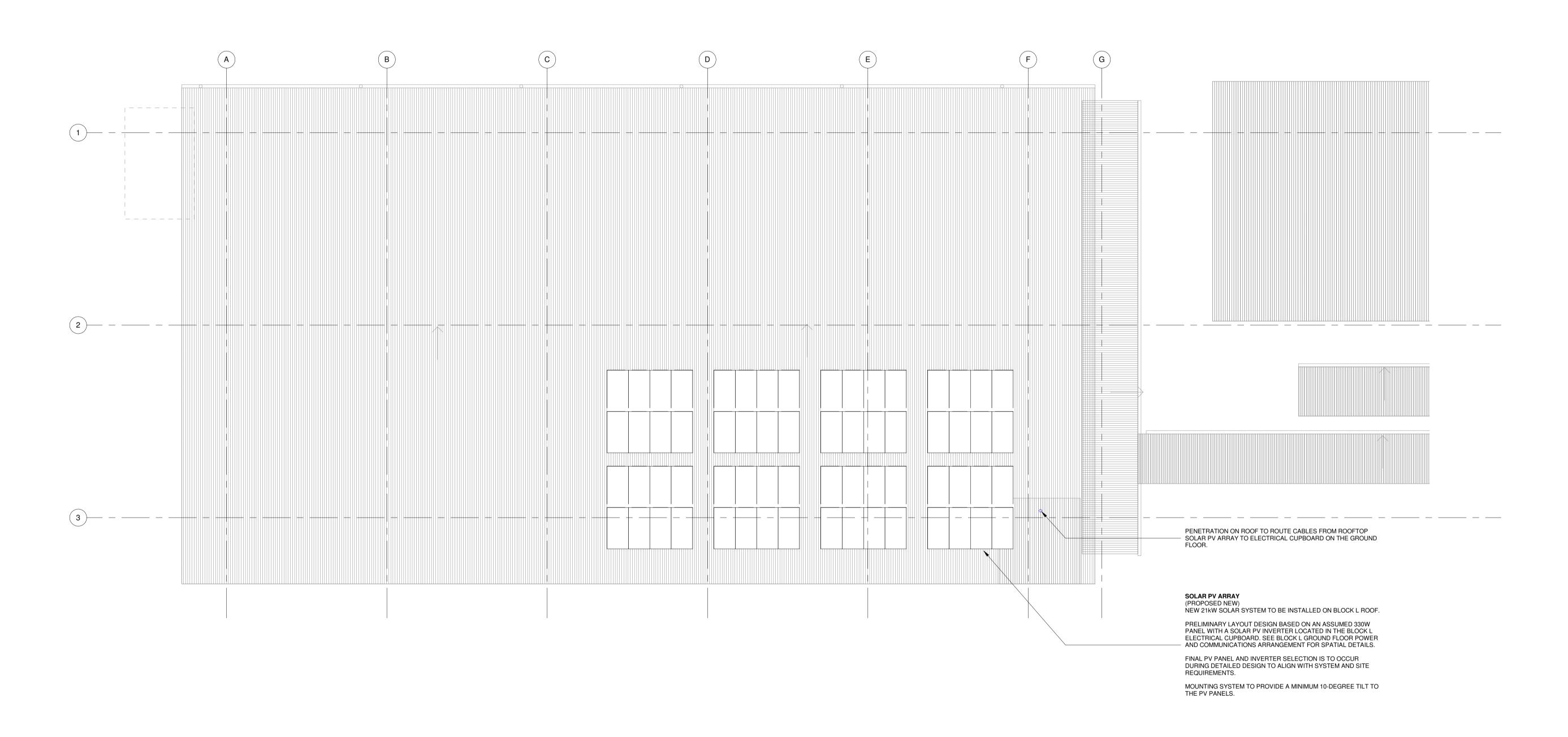




GENERAL NOTES

- ALLOW FOR CABLE SUPPORTS AND PERSONNEL WALKWAYS FOR MAINTENANCE ACCESS TO SOLAR PV PANELS

- DC CABLING TO BE CONTAINED WITHIN HD CONDUITS OR LIDDED CABLE TRAYS





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NORTH



PROJECT NAME SINSW - DUNDAS PUBLIC SCHOOL UPGRADE 85 KISSING POINT RD, DUNDAS NSW 2117 **BLOCK L**

BLOCK L ROOF POWER AND

COMMUNICATIONS ARRANGEMENT

DRAWING TITLE

ELECTRICAL SERVICES

SCHEMATIC DESIGN DRW | CHK | APP | DATE BC DH SS 08/01/2025 1:100@A1

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