



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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Website: www.edg.net.au Email: brisbane@edg.net.au

C3247a - ACGS - YEAR 7 BOARDING

C3247a-0001(J).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION J - 30 SEPTEMBER 2024

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	07	07	17	10	16	24	25	25	30	
	MONTH	05	06	06	07	07	07	07	09	09	
	YEAR	24	24	24	24	24	24	24	24	24	
REASON FOR ISSUE				P	T	T	T	C	C	C	C
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

DISTRIBUTION	NUMBER OF COPIES							
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ANGLICAN CHURCH GRAMMAR SCHOOL		1E	1E	1E	1E	1E	1E	1E
P = PRINT T = TRACING D = DISC E = EMAIL F = FAX								

DOCUMENTS		REVISION							
C3247a-E01.dwg	LEGEND & LOCATION PLAN	A	B		C		D		E F
C3247a-E02.dwg	DETAILS & SCHEMATICS	A	B				C		D
C3247a-E03.dwg	NOTES	A	B		C	D	E		
C3247a-E04.dwg	DONALDSON GROUND LEVEL PLANS	A	B	C	D	E	F		G H
C3247a-E05.dwg	DONALDSON UPPER LEVEL PLANS	A	B		C	D	E		F G
C3247a-E06.dwg	GERALD WING GROUND LEVEL PLANS	A	B	C	D	E	F	G	H J
C3247a-E07.dwg	GERALD WING UPPER LEVEL PLANS	A	B		C	D	E		F G
C3247a-E08.dwg	CABLE ACCESS PLANS	A	B		C		D		
C3247a-0001.xls	CONTRACT DOCUMENT SCHEDULE	A	B	C	D	E	F	G	H J
C3247a-0002.xls	EQUIPMENT SCHEDULE		A		B				C D
C3247a-0004.xls	DISTRIBUTION BOARD DB-AN SCHEDULE		A						
C3247a-0005.xls	DISTRIBUTION BOARD DB-A SCHEDULE		A					B	
C3247a-0001.zip	FITTING & OUTLET DATASHEETS		A						



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C3247a - ACGS - YEAR 7 BOARDING
ELECTRICAL EQUIPMENT SCHEDULE
REVISION D - 30 SEPTEMBER 2024

C3247a-0002(D).xls

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/links.html

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	13W 3000K LED	RECESSED 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-3K-13W	A
L2	2700K LED	LED STRIP WITHIN A FLUSH RECESSED ALUMINIUM EXTRUSION SCREW FIXED IN PLACE UNDER THE JOINERY PELMET TO ILLUMINATE DOWNWARDS AS PER THE ARCHITECTURAL DETAIL PROVIDE EACH L2 WITH A REMOTE DRIVER LOCATED UNDER THE ASSOCIATED BED CONTROLLED BY THE ARCHITRAVE SWITCH PROVIDE AS PART OF OUTLET TYPE A ENSURE THE ELV CABLING IS CONCEALED.	NATURAL	NPA LF-DFA AND PROFILE PR-LINR-1728 C/W PSU AND FL-SR-2302BEA - OPAL DIFFUSER	A
L3	20W 4000K LED	600 LONG SUSPENDED BATTEN C/W INTEGRAL DRIVER MOVEMENT SENSOR	NA	GAMMA ILLUMINATION STORM 1557-CCT-20W	A
L4	2700 K LED	FLUSH RECESSED NIGHT LIGHT CENTRED AT 300 AFFL C/W REMOTE DALI DIMMABLE DRIVER LOCATED UNDER THE POD BED. IT IS ACCEPTABLE TO HAVE MULTIPLE L1 FITTINGS ON A SINGLE DRIVER IF THE 24 VOLT CABLE IS ADEQUATELY SIZED TO ACCOMMODATE THE VOLTAGE DROP.	WHITE	CARIBOU SIERA DALI	A
L5	8W 2700K LED	RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-2700K-8W	A
L6	22W 3000K LED	RECESSED 55 DEG BEAM ADJUSTABLE DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1413-3K-22W	A
L7	36W LED 4000K	1200 LONG SUSPENDED BATTEN C/W INTEGRAL DRIVER MOVEMENT SENSOR	NA	GAMMA STORM 1558-CCT-36W	A
L8	8W 3000K LED	RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-3K-8W	A
L9	A SINGLE HORIZONTAL RUN OF LED STRIP LIGHT 4000K WHITE LEDS AT 12MM SPACING WITH REMOTE CONTROL GEAR. MOUNT THE LED STRIP UNDER THE OVERHEAD CUPBOARDS HARD AGAINST THE SPLASHBACK AS PER THE ARCHITECTURAL JOINERY DETAILS THE SUPPLIER IS TO CUT / JOIN THE LED STRIPS TO SUIT THE SITE DIMENSIONS. DO NOT CUT THE LED STRIPS ON SITE SCREW FIX THE ALUMINIUM SUPPORT IN PLACE.			NEON PRODUCTS AUSTRALIA LF-DFB-NW-300-12 + PR-LIN172153-F	A
L10	NOT USED				A
L11	13W 3000K LED	RECESSED 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	BLACK TRIM	GAMMA ILLUMINATION COBALT 1402-3K-13W	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L12	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND AN UNSWITCHED AS2293 NON MAINTAINED EMERGENCY PACK CONFIGURED TO ONLY OPERATE UPON MAINS FAILURE	LIGHT GREY	GAMMA STORM 1558-CCT-36W	B
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE SF1LEDP LITHIUM BATTERY	A
EX	LED	EXIT LIGHT THEATRE MASK: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. LITHIUM ION BATTERY	GREEN LOGO BLACK BACKGROUND BLACK BODY	CLEVERTRONICS CUBPRO-SM-TH-R	A
SWITCH PANEL (SPx)		MULTIGANG FACEPLATE AS PER THE LIGHTING CONTROL SCHEMATIC MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. BLACK ENGRAVING	WHITE	CLIPSAL C2000 SERIES FACEPLATE	A
LIGHTING CONTROL CHANNEL (x)		LIGHTING CHANNEL TO BE CONTROLLED AS PER THE LIGHTING CONTROL SCHEMATIC			A
PRESENCE DETECTOR SENSOR (SE)		RECESSED PRESENCE DETECTOR SENSOR TO BE WIRED TO OPERATE IN PARALLEL TO ALLOW THE LIGHTS TO TURN ON FOR 15 MINUTES UPON DETECTION OF MOVEMENT WHEN THE SUPPLY HAS MANUALLY BEEN TURNED ON.		CLIPSAL	C
ONE-WAY SWITCH		ONE-WAY SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A
TWO-WAY SWITCH		TWO-WAY SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A
CONTACTOR (Cx)		HEAVY DUTY SWITCHING CONTACTOR			A
RELAY (Rx)		CONTROL RELAY			A
MANUAL DALI POT (DALI)		DALI POT C/W INTEGRAL 20 DALI DEVICE POWER SUPPLY C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED IN THE DB-G / DB-1 ESCUTCHEON. FACTOR SET POWER ON RETURN TO LAST LEVEL.	WHITE	SMARTSCAPE DALI RD20	A
SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O.	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A

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ELECTRICAL EQUIPMENT SCHEDULE

REVISION D - 30 SEPTEMBER 2024

THE EQUIPMENT SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK www.edg.net.au/links.html					
TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT AT 300 AFFL U.N.O	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A
POWER OUTLET TYPE A		DOUBLE POWER OUTLET C/W USB A AND USB C CHARGER , CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT ABOVE BENCH PROVIDE AN ADDITIONAL ARCHITRAVE SWITCH FACEPLATE ADJACENT THE GPO TO CONTROL THE ADJACENT L2 LIGHT. REFER TO THE TYPE A DETAIL.	WHITE	CLIPSAL ICONIC SERIES FACEPLATE	A
POWER OUTLET TYPE B		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED WITHIN THE JOINERY AS PER THE JOINERY DETAIL TO SUPPLY THE FRIDGE.	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A
HAND DRYER CONNECTION (HD)		20A ISOLATING SWITCH WALL MOUNTED AT 2400mm AFFL AND CONNECTED TO THE HAND DRYER UNIT AS PER DETAIL.		CLIPSAL C2000 SERIES 30USM	A
SINGLE-PHASE ISOLATOR		SINGLE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.	-	CLIPSAL WHT20	A
THREE-PHASE ISOLATOR		THREE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT. "RSD" DENOTES ROLLER SHUTTER DOOR SUPPLY - COORDINATE LOCATION ONSITE WITH MOTOR.	-	CLIPSAL WHT35	A
CR-D		EXISTING DONALDSON BUILDING COMMUNICATIONS RACK CR-D TO BE RETAINED AND MODIFIED AS NECESSARY TO ACCOMMODATE THE NEW COMMUNICATIONS OUTLETS. REMOVE ALL REDUNDANT UTP CABLING AND PROVIDE NEW CAT 6 PATCH PANELS TO ACCOMMODATE THE NEW CAT 6 OUTLETS AS REQUIRED. ALL EXISTING COMMUNICATIONS OUTLETS OUTSIDE OF THE WORKS AREA ARE TO BE RETAINED AND RECONNECTED AS REQUIRED TO MAINTAIN THERE OPERATION. THE NEW SCHOOL BELL IP /AUDIO DECODER AND AMPLIFIER ARE TO BE MOUNTED WITHIN CR-D.			A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO NEW CAT 6 PATCH PANELS IN THE ASSOCIATED COMMUNICATIONS RACK VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	A
CCTV OUTLET		MALE RJ45 CAT-6 CCTV PLUS, CABLED BACK TO NEW CAT 6 PATCH PANELS IN THE ASSOCIATED COMMUNICATIONS RACK VIA PURPLE 4-PAIR CAT-6 UTP CABLE. PROVIDE SUFFICIENT LENGTH FOR THE PLUG TO BE CONNECTED DIRECTLY INTO THE CCTV CAMERA PROVIDED BY THE SCHOOL. COORDINATE THE EXACT POSITION ON SITE WITH THE SCHOOL.			D
DB-AN		UTILISE THE EXISTING DONALDSON DISTRIBUTION BOARD DB-AN AS PER THE DB-AN SCHEDULE AND NOTES.			A

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
DB-A		PROVIDE A NEW DISTRIBUTION BOARD DB-A AS PER THE DB-A SCHEDULE AND NOTES. UTILISE THE EXISTING GERALD DISTRIBUTION BOARD SUBMAIN TO SUPPLY THE NEW DB-A. THE EXISTING GERALD DISTRIBUTION BOARD IS TO BE REMOVED AND ANY REMAINING CIRCUITS ARE TO BE SUPPLIED FROM THE NEW DB-A WITH NEW SWITCHGEAR AND CONTROLS THAT MATCH THE EXISTING IN CAPACITY AND FUNCTION.			A
PA SCHOOL BELL RECESSED SPEAKER		RECESSED 265 DIA DUAL CONE SPEAKER C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE. CONNECT THE SPEAKERS TO THE EXISTING SCHOOL BELL SYSTEM AMPLIFIER LOCATED IN CR-GB	WHITE UNLESS NOTED AS BK (BLACK)	BOSCH F.01U.026.342 - LBC3099/41	A
DONALDSON FIRE INDICATOR PANEL (FIP)		MODIFY THE EXISTING DONALDSON BRIGADE MONITORED FIRE INDICATOR PANEL TO ACCOMMODATE THE NEW DETECTORS AND SPEAKERS WITHIN THE DONALDSON BUILDING.			A
SCHOOL HOUSE FIRE INDICATOR PANEL (FIP)		MODIFY THE EXISTING SCHOOL HOUSE FIRE INDICATOR PANEL TO ACCOMMODATE THE NEW DETECTORS AND SPEAKERS WITHIN THE GERALD BUILDING.			A
SMOKE DETECTOR		SURFACE MOUNTED ADDRESSABLE AS1670.1 COMPLIANT SMOKE DETECTOR WHITE UNLESS NOTED AS BK (BLACK) ENSURE ALL SMOKE DETECTORS ARE PROVIDED AS AS 7240.7 POINT DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %			A
CONCEALED SPACE SMOKE DETECTOR		ADDRESSABLE AS1670 COMPLIANT CONCEALED SPACE SMOKE DETECTOR C/W REMOTE INDICATOR AND REMOTE ACCESS BRACKET IF REQUIRED ENSURE ALL SMOKE DETECTORS ARE PROVIDED AS AS 7240.7 POINT DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %			A
THERMAL DETECTOR		SURFACE MOUNTED ADDRESSABLE AS1670 COMPLIANT THERMAL DETECTOR WHITE UNLESS NOTED AS BK (BLACK)			A
FIRE ALARM SYSTEM SPEAKER		RECESSED AS1670.1 COMPLIANT RECESSED ALERT AND EVACUATION SPEAKER C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE.	WHITE UNLESS NOTED AS BK (BLACK)	TYPE TO MATCH THE PA BELL SPEAKER IN APPEARANCE	A
FIRE SHUTTER (FS)		NO LONGER REQUIRED			B
FIRE ALARM SYSTEM ACCESS CONTROL INTERFACE		INTERFACE THE FIRE ALARM SYSTEM TO THE SECURITY SYSTEM SUCH THAT UPON ALARM THE DOOR UNLOCKS.			A
SECURITY EQUIPMENT		SECURITY EQUIPMENT TO UTILISE THE EXISTING SECURITY NETWORK CABLING			A
WINDOW MOUNTED EXHAUST FAN		PROVIDE A SINGLE GPO FOR THE WINDOW MOUNTED EXHAUST FAN SUPPLIED OF THE MECHANICAL SERVICES. CONFIRM THE GPO POSITION ON SITE WITH EH MECHANICAL SUB CONTRACTOR.			A
ACCESS CONTROL DOOR RELEASE PUSH BUTTON (PB)		PROVIDE THE DOOR WITH A FAIL SAFE PUSH BUTTON MOUNTED AT 1000 AFLL TO UNLOCK THE DOOR. PROVIDE BLACK ENGRAVING "PRESS TO UNLOCK. CONNECT THE "PUSH BUTTON TO THE ACCESS CONTROL SYSTEM TO UNLOCK THE ASSOCIATED MAGNETIC HOLDER.	WHITE UNLESS NOTED AS BK (BLACK)	CLIPSAL C2000 SERIES FACEPLATE	B



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ELECTRICAL EQUIPMENT SCHEDULE
REVISION D - 30 SEPTEMBER 2024

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
ACCESS CONTROL DOOR MAGNETIC HOLDER (MH)		PROVIDE THE DOOR WITH ACCESS CONTROL UTILISING A SURFACE MOUNTED MAGNETIC HOLDER. CONNECT THE MAGNETIC HOLDER TO THE ACCESS CONTROL SYSTEM. PROVIDE CONCEALED DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED. ALL CABLING AND CONDUITS ASSOCIATED WITH THE MAGNETIC HOLDER ARE TO BE CONCEALED.			B
ACCESS CONTROL DOOR ELECTRIC STRIKE (ES)		PROVIDE THE DOOR WITH ACCESS CONTROL UTILISING A FLUSH MOUNTED ELECTRIC DOOR STRIKE PLATE. CONNECT THE ELECTRIC STRIKE TO THE ACCESS CONTROL SYSTEM. PROVIDE CONCEALED DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED. EACH ELECTRIC STRIKE IS TO BE PROVIDED WITH DOOR STATUS REPORTING (DOOR OPEN / DOOR CLOSED) ALL CABLING AND CONDUITS ASSOCIATED WITH THE ELECTRIC STRIKE IS TO BE CONCEALED.			A
ACCESS CONTROL DOOR CARD READER (CR)		WALL-MOUNTED 1000AFFL VANDAL-RESISTANT ACCESS CONTROL SYSTEM HEAVY-DUTY PROXIMITY CARD READER PROVIDE DOOR READERS AND POWER SUPPLIES AS REQUIRED ALL CARD READERS ARE TO MATCH THE EXISTING READERS USED IN THE CENTENARY CENTRE. ALL CABLING AND CONDUITS ASSOCIATED WITH THE CARD READER IS TO BE CONCEALED.			A
SECURITY DOOR REED SWITCH		PROVIDE THE DOOR WITH A CONCEALED DOOR STATUS REED SWITCH CONNECTED TO THE SECURITY SYSTEM AS A DEDICATED ZONE. ALL CABLING AND CONDUITS ASSOCIATED WITH THE REED SWITCH IS TO BE CONCEALED.			A



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DISTRIBUTION BOARD DB-AN (DONNALDSON)

REVISION A - 06 JUNE 2024

							REV
REMOVE ALL EXISTIGN REDUNDANT SWITCHGEAR FROM THE EXISTING DISTRIBUTION BOARD DB-AN AND PROVIDE ALL NEW SWITCHGEAR TO ACCOMMODATE THE FOLLOWING CUIRCUITS. UPDATE THE SCHEULE AT PRACTICAL COMPLETION.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	A
P1	1	20	RCBO	2.5	GROUND	GPO	A
P2	1	20	RCBO	2.5	GROUND	OFFICE	A
P3	1	20	RCBO	2.5	GROUND	CHARGING	A
P4	1	20	RCBO	2.5	GROUND	CHARGING	A
P5	1	20	RCBO	2.5	GROUND	TV	A
P6	1	20	RCBO	2.5	GROUND	AUTO BOILER	A
P7	1	20	RCBO	2.5	GROUND	KITCHEN	A
P8	1	20	RCBO	2.5	GROUND	REF	A
P9	1	20	RCBO	2.5	UPPER LEVEL	GPO	A
P10	1	20	RCBO	2.5	UPPER LEVEL	PODS 1-5	A
P11	1	20	RCBO	2.5	UPPER LEVEL	PODS 6-9	A
P12	1	20	RCBO	2.5	UPPER LEVEL	PODS 10-16	A
P13	1	20	RCBO	2.5	DONALDSON	EXHAUST FANS	A
P14	3	50		10.0	EXTERNAL	AC	A
P15	1	20	RCBO	2.5	EXTERNAL	AC	A
							A
							A
							A
							A
							A
							A
							A
							A
L1	1	20	RCBO	2.5	GROUND	LIGHTING	A
L2	1	20	RCBO	2.5	STAIR	LIGHTING	A
L3	1	20	RCBO	2.5	GROUND	LIGHTING	A
L4	1	20	RCBO	2.5	UPPER LEVEL	LIGHTING	A
L5	1	20	RCBO	2.5	UPPER LEVEL	LIGHTING	A
L6	1	20	RCBO	2.5	UPPER LEVEL	LIGHTING	A
							A
							A
							A



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





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C3247a - ACGS - YEAR 7 BOARDING
DISTRIBUTION BOARD DB-A (GERALD)
REVISION B - 25 JULY 2024





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<div>FAULT CURRENT: 6kA</div> <div>CHASSIS SIZE: 48 POLES</div> <div>CHASSIS RATING: 250A</div> <div>PHASES: 3</div> <div>MAIN SWITCH: 2500A NON AUTO LOAD BREAK</div> <div>ALL SWITCHGEAR IS TO BE SCHNEIDER TO MATCH THE EXISTING SWITCHGEAR USED ACROSS THE SITE</div>							REV
							A
							A
							A
							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. ALLOW TO RECONNECT ALL EXISTING CIRCUITS THAT REMAIN WITH NEW SWITCHGEAR AND CONTROLS WITH RCD PROTECTION TO AS3000 THE DOOR IS TO BE LOCKABLE WITH CHROME PLATED BRASS LIFT OFF HINGES THE ESCUTCHEON IS TO BE GLOSS WHITE AND SECURED WITH 1/4 TURN LATCHES ON ONE SIDE AND CHROME PLATED BRASS LIFT OF HINGES ON THE OTHER EXTERNAL COLOUR LIGHT GREY PROVIDE A SHOP DRAWING FOR APPROVAL.							B
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	GROUND	CHARGING	A
P2	1	20	RCBO	2.5	GROUND	CHARGING	A
P3	1	20	RCBO	2.5	GROUND	GPO	A
P4	1	20	RCBO	2.5	GROUND	TV SIGN IN	A
P5	1	20	RCBO	2.5	GROUND	AUTO BOILER	A
P6	1	20	RCBO	2.5	GROUND	KITCHEN	A
P7	1	20	RCBO	2.5	GROUND	REF	A
P8	1	20	RCBO	2.5	UPPER LEVEL	GPO	A
P9	1	20	RCBO	2.5	UPPER LEVEL	POD 1-4	A
P10	1	20	RCBO	2.5	UPPER LEVEL	PODS 5-9	A
P11	1	20	RCBO	2.5	GROUND	PUMP	A
P12	1	20	RCBO	2.5	GERALD	TOILET EXHAUST	A
P13	1	20	RCBO	2.5	GROUND	SECURITY	A
P14	3	40		6.0	EXTERNAL	AC	A
P15	1	20	RCBO	2.5	EXTERNAL	HWS	A
L1	1	20	RCBO	2.5	GROUND	LIGHTING	A
L2	1	20	RCD	2.5	GROUND	LIGHTING	A
L3	1	20	RCD	2.5	UPPER LEVEL	LIGHTING	A
L4	1	20	RCD	2.5	UPPER LEVEL	LIGHTING	A
L5	1	20	RCD	2.5	UPPER LEVEL	LIGHTING	A

LEGEND

-  ELECTRICAL SERVICES SWITCHBOARD.
-  SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
-  SINGLE POWER OUTLET.
-  DOUBLE POWER OUTLET.
-  SPECIAL PURPOSE POWER OUTLET.
-  SINGLE PHASE ISOLATOR.
-  THREE PHASE ISOLATOR.
-  HAND DRYER CONNECTION.
-  LIGHTING CONTROL SWITCH PANEL, TYPE AS NOTED.
-  ONE-WAY LIGHT SWITCH.
-  TWO-WAY LIGHT SWITCH.
-  CIRCUIT LINE.
-  SWITCH LINE.
- DB-x - Py


POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
- xx



LIGHTING CONTROL CHANNEL REFERENCE.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  RJ45 COMMUNICATIONS OUTLET.
-  PA MULTI-TAP CONE SPEAKER.
-  FIRE EVACUATION SPEAKER.
- FIP

FIRE INDICATOR PANEL.
- I

THERMAL DETECTOR.
- S

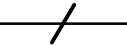



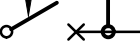
SMOKE DETECTOR.
- S

CONCEALED SPACE SMOKE DETECTOR.
-  WINDOW MOUNTED EXHAUST FAN.
- PB

DOOR PUSH BUTTON.
-  FIRE ALARM SYSTEM ACCESS CONTROL INTERFACE.
-  DOOR REED SWITCH.
- MH


MAGNETIC DOOR HOLDER.
- ES

ELECTRIC STRIKE.
- CR



CARD READER.
-  SINGLE PHASE.
-  THREE PHASE.
-  CIRCUIT BREAKER.
-  ISOLATOR.
-  RESIDUAL CURRENT DEVICE.
- NO


CONTACTOR – NORMALLY OPEN.
- NC


CONTACTOR – NORMALLY CLOSED.
- DALI


MANUAL DALI POT DIMMER.
-  REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.


LEGEND


-  A: DOUBLE GPO C/W SWITCH TO CONTROL THE ADJACENT L2 LIGHT FITTING.
-  B: SINGLE GPO C/W SWITCH TO CONTROL THE REFRIGERATOR.
- E1


 E1: GENERAL LED EMERGENCY LIGHT.
- EX


 EX: EMERGENCY LED EXIT LIGHT.
- L1


 L1: RECESSED DOWNLIGHT.
- L2


 L2: LED STRIP LIGHT MOUNTED UNDER SHELF SWITCHED AT THE TYPE A OUTLET.
- L3


 L3: 600 LONG BATTEN C/W INTEGRAL SENSOR.
- L4

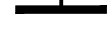
 L4: RECESSED WALL MOUNTED DALI DIMMABLE NIGHT LIGHT.
- L5


 L5: RECESSED DALI DIMMABLE DOWNLIGHT.
- L6


 L6: RECESSED DOWNLIGHT.
- L7


 L7: 1200 LONG BATTEN C/W INTEGRAL SENSOR.
- L8


 L8: RECESSED DOWNLIGHT.
- L9


 L9: LED STRIP LIGHT MOUNTED UNDER OVERHEAD CUPBOARD.
- L10

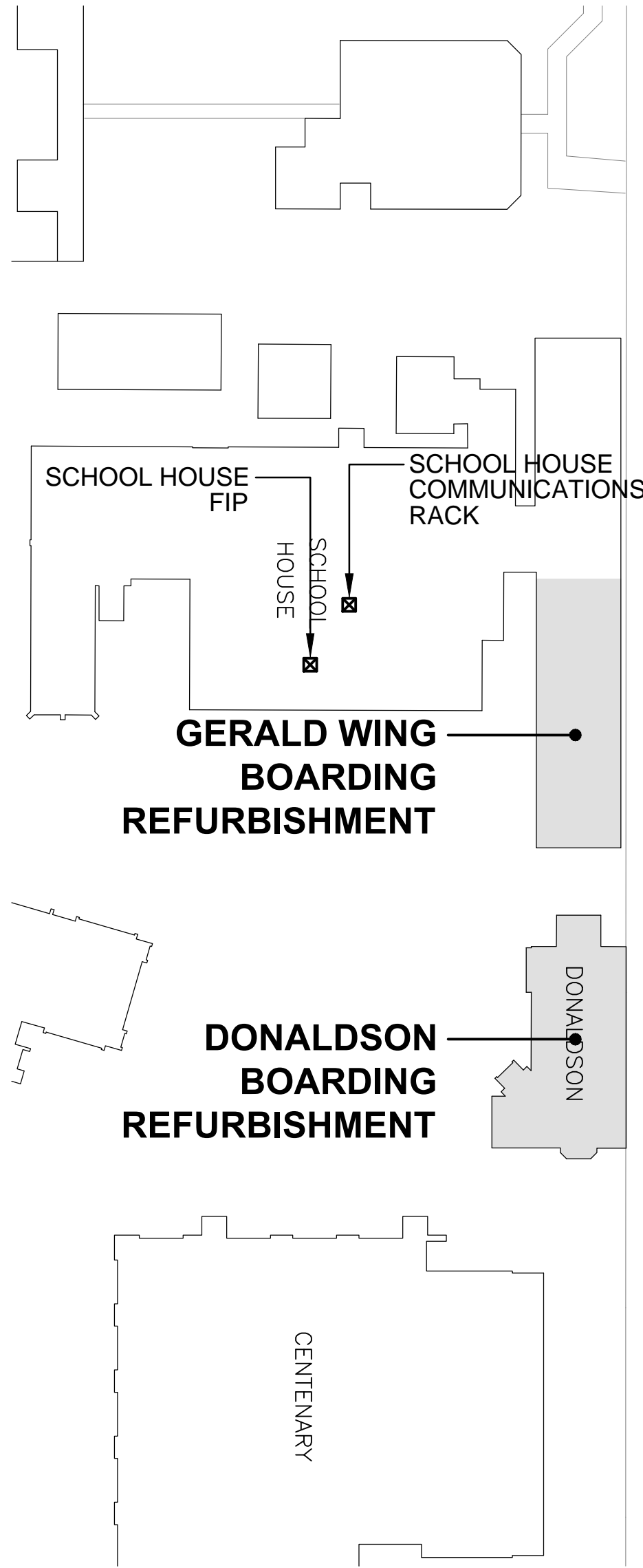
 L10: NO LONGER REQUIRED.
- L11

 L11: BLACK RECESSED DOWNLIGHT.
- L12

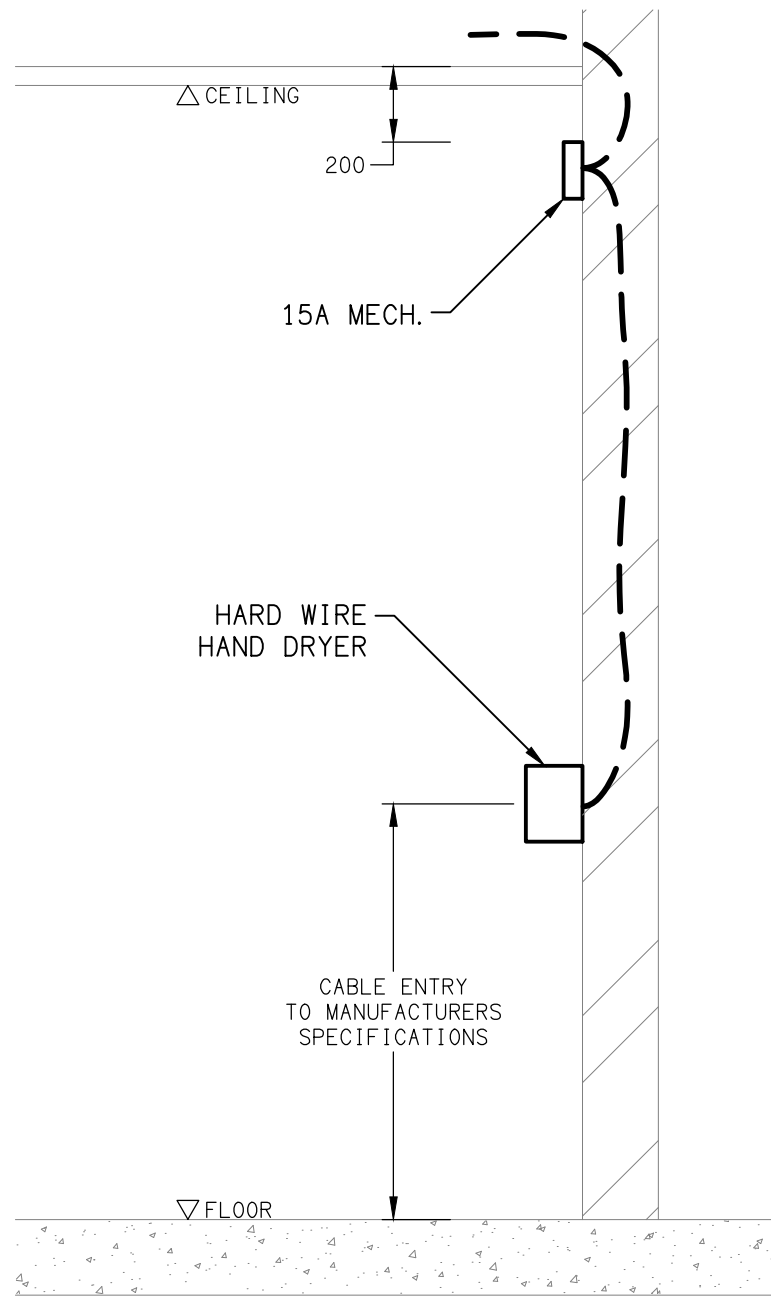
 L12: 1200 LONG IP66 BATTEN C/W NON-MAINTAINED EMERGENCY LIGHT.
- SE

 LIGHTING CONTROL SENSOR.
- CCTV

 CCTV OUTLET.



LOCATION PLAN
YEAR 7 BOARDING REFURBISHMENT
SCALE 1:500



DETAIL
HAND DRYER CONNECTION
NOT TO SCALE



NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- SHOP DRAWINGS.
- WORK AS EXECUTED DRAWINGS.
- COMPREHENSIVE LABELLING.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- FIRE ALARM.
- ELECTRONIC SECURITY.
- SCHOOL BELL.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

SUPPLY ALL LABOUR, MATERIALS, EQUIPMENT, AND ALL OTHER ITEMS, WHETHER MENTIONED IN DETAIL OR NOT, REQUIRED FOR THE SATISFACTORY COMPLETION OF THE ELECTRICAL SERVICES INSTALLATION, LEAVING IN FULL WORKING ORDER TO THE SATISFACTION OF THE PROJECT MANAGER.

ACCEPT FULL RESPONSIBILITY FOR LIASING, ARRANGING AND CO-ORDINATION ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REMOVE ALL OF THE EXISTING ELECTRICAL SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

2. WORKMANSHIP

ENSURE THAT THE WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE. ENSURE THE INSTALLATION AND ALL COMPONENTS, FIXTURES, FITTINGS, OUTLETS AND CABLES ARE SUPPLIED AND INSTALLED TO A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS. ENSURE ALL MATERIALS AND COMPONENTS OF A SIMILAR TYPE ARE OF THE SAME MANUFACTURER AND INSTALLED IN A UNIFORM MANNER.

IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL COMPONENTS, FITTINGS, FIXTURES, SYSTEMS, PROGRAMMING ETC IRRESPECTIVE OF THE LEVEL DETAILED IN THE DOCUMENTS SUCH THAT THE INSTALLATION IS PROVIDED AS A COMPLETE WORKING INSTALLATION.

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT CHASING AND REINSTATEMENT WILL BE REQUIRED. ENSURE ALL COMPONENTS, EQUIPMENT AND MATERIALS SUPPLIED ARE NEW, UNUSED, DESIGNED AND SELECTED TO ENSURE SATISFACTORY OPERATION UNDER VARYING ATMOSPHERIC, CLIMATIC, HUMID TROPICAL CONDITIONS WITHOUT DISTORTION AND DETERIORATION IN ANY PART AFFECTING EFFICIENCY AND RELIABILITY OF THE SYSTEMS. DESIGN AND SELECT ALL EQUIPMENT TO PROVIDE THE NECESSARY SAFETY TO HUMAN LIFE AND PROPERTY DURING OPERATION AND MAINTENANCE WITH PARTICULAR ATTENTION GIVEN TO ELECTRICAL SAFETY AND SEGREGATION PRECAUTIONS.

CHECK THE FINISHED PAINTWORK AROUND THE AREA OF EACH INSTALLATION AND TOUCH UP ALL DAMAGED PARTS AND FINISHES AFTER THE INSTALLATION OF THE ELECTRICAL SERVICES.

ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE BUILDER'S PROGRAM. ENSURE ALL FINAL LOCATIONS OF OUTLETS AND FITTINGS ARE CO-ORIENTED ONSITE WITH THE ARCHITECT AND ALL OTHER SERVICES, TO THE APPROVAL OF THE PROJECT MANAGER. ALLOW TO CO-ORDINATE THE FINAL LOCATION OF ALL EQUIPMENT, FITTINGS, & OUTLETS, SUCH THAT THEY ARE INSTALLED IN ACCORDANCE WITH THE AS3000 RESTRICTED ZONES, AND ARE NOT COVERED INAPPROPRIATELY.

ENSURE THAT ALL METAL SURFACES ARE SUITABLY PROTECTED AGAINST CORROSION, AND THAT ALL PLASTIC MATERIALS ARE UV STABILISED.

PROVIDE ALL MATERIALS AS NEW, AND OF THE HIGHEST CLASS AVAILABLE FOR THEIR RESPECTIVE TYPES. ENSURE ALL ASPECTS OF THE WORK ARE OF A HIGH STANDARD THROUGHOUT, AND INSTALLED IN A NEAT AND TRADESMAN LIKE MANNER, TO THE CURRENT INDUSTRY STANDARDS.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS, IT IS THE ELECTRICAL SUB CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- AS1670.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

PRIOR TO PRACTICAL COMPLETION CERTIFY THE INSTALLATION ON A FORM 16 AS COMPLYING WITH THE RELEVANT CODES AND STANDARDS.

4. AUTHORITIES

ENSURE ALL OF THE ELECTRICAL SERVICES COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AUTHORITIES HAVING JURISDICTION OVER THE SITE INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- ACMA.
- LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY.
- QLD FIRE AND RESCUE AUTHORITY.

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE. JOINS IN CABLES ARE NOT ACCEPTABLE.

NOTES

6. POWER DISTRIBUTION

THE EXISTING DONALDSON DISTRIBUTION BOARD DB-AN IS TO BE MODIFIED AS NECESSARY TO SUPPLY THE NEW AND MODIFIED DONALDSON CIRCUITS.

THE EXISTING GERALD DISTRIBUTION BOARD IS TO BE REMOVED AND A NEW DISTRIBUTION BOARD DB-A IS TO BE PROVIDED TO SUPPLY THE GERALD CIRCUITS. THE EXISTING 4C 16MM² GERALD DISTRIBUTION BOARD SUBMAIN IS TO BE REDIRECTED TO THE NEW DB-A. ALL EXISTING GERALD CIRCUITS THAT REMAIN ARE TO BE RESUPPLIED FROM THE NEW DB-A WITH NEW AS3000 COMPLIANT SWITCHGEAR AND CONTROLS EQUAL TO THE EXISTING IN FUNCTION AND CAPACITY.

ALL OF THE EXISTING POWER SERVICES THAT BECOME REDUNDANT ARE TO BE REMOVED AND THE SWITCHBOARD LABELLING / SCHEDULE UPDATED AT PRACTICAL COMPLETION INDICATING THE CIRCUITS USE AND LOCATION. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- EARTHING.
- MODIFICATIONS TO DB-AN.
- NEW DISTRIBUTION BOARD DB-A.
- REMOVAL OF EXISTING REDUNDANT POWER SERVICES.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

THE EXISTING CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

7. LIGHTING

ALL OF THE LIGHT FITTINGS, CONTROL GEARS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES.
- CONTROL GEAR.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- STANDALONE MANUAL DALI POTS.
- EMERGENCY AND EXIT LIGHTING.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

PROVIDE EACH OF THE DIMMED CIRCUITS WITH A DEDICATED STAND ALONE MANUAL (SET AND FORGET) DALI POT MOUNTED ON MOUNTING BLOCKS WITHIN THE DISTRIBUTION BOARDS BEHIND THE ESCUTCHEON.

THE EXTERNAL LIGHTING IS TO BE RECONNECTED WITH ALL OF THE EXISTING EXPOSED EXTERNAL CONDUIT REMOVED AND THE CABLING RE-RUN CONCEALED.

PROVIDE A SINGLE POINT EMERGENCY LIGHTING SYSTEM THAT COMPLIES WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS MAINTAINED WITH THE LAMP PERMANENTLY ON SUPPLIED VIA AN UNSWITCHED ACTIVE MAINS SUPPLY WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE, THE LAMP IS TO REMAIN ON SUPPLIED BY THE EMERGENCY PACK. SINGLE LAMP MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ALWAYS ON.)

INSTALL EMERGENCY LIGHT FITTINGS NOMINATED AS NON-MAINTAINED AS FOLLOWS:

- IF THE FITTING IS NOT BEING SWITCHED, THE LAMP IS TO REMAIN OFF WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON SUPPLIED BY THE EMERGENCY PACK. UNSWITCHED SINGLE LAMP NON-MAINTAINED EMERGENCY LIGHTS ARE NOT SWITCHED WITH THE LOCAL GENERAL AREA LIGHTING. (THE LAMP IS ON ONLY WHEN THE MAINS SUPPLY IS NOT AVAILABLE.)
- IF THE FITTING IS BEING SWITCHED, THE LAMP IS TO BE SUPPLIED AND CONTROLLED WITH THE LOCAL GENERAL AREA LIGHTING WHEN THE MAINS SUPPLY IS AVAILABLE. WHEN THE MAINS SUPPLY IS NOT AVAILABLE THE LAMP IS TO BE SWITCHED ON, SUPPLIED BY THE EMERGENCY PACK. (THE LAMP IS ON WHEN TURNED ON WITH THE LOCAL GENERAL LIGHTING OR THE MAIN SUPPLY IS NOT AVAILABLE.)

INSTALL EMERGENCY LIGHTS SUCH THAT THE STATUS INDICATOR L.E.D. IS CLEARLY VISIBLE AND THE TEST BUTTONS ARE READILY ACCESSIBLE. LABEL EACH CIRCUIT BREAKER WHICH CONTROLS THE UNSWITCHED ACTIVE TO EXIT LIGHTS WITH A LABEL FIXED ADJACENT; ENGRAVED PLASTIC LAMINATE, GREEN BACKGROUND WITH WHITE CHARACTERS:-

WARNING
INTERRUPTING SUPPLY WILL DISCHARGE
EMERGENCY LIGHTING BATTERIES

PROVIDE WRITTEN EVIDENCE OF THE INITIAL COMMISSIONING AND TESTING AND TESTING FOR THE DURATION OF THE MAINTENANCE PERIOD IN ACCORDANCE WITH AS 2293.2.

THIS EVIDENCE IS TO BE IN THE FORM OF A LOG BOOK SIMILAR TO THE GENERAL LIGHTING SERVICE PTY LTD "EMERGENCY LIGHTING MAINTENANCE LOG BOOK AND MANUAL" WHICH IS TO BE PROVIDED BY THE ELECTRICAL SUB-CONTRACTOR AND HAVE ALL ENTRIES FULLY COMPLETED AND BE PRESENTED FOR INSPECTION AT PRACTICAL COMPLETION. THE LOG BOOK IS TO BE RETAINED BY THE ELECTRICAL SUB-CONTRACTOR FOR THE DURATION OF THE MAINTENANCE PERIOD, AND THE SIX MONTHLY TEST AND MAINTENANCE RESULTS ENTERED. THE LOG BOOK IS TO BE PRESENTED FOR APPROVAL AT FINAL COMPLETION (EXPIRY OF THE MAINTENANCE PERIOD) AND WILL BE FORWARDED TO THE OPERATOR FOR THEIR USE.

PROVIDE MAINTENANCE OF THE EMERGENCY AND EXIT LIGHTING INSTALLATION INCLUDING RECORDS IN ACCORDANCE WITH THE LATEST ISSUE OF ALL PARTS AS2293 AND THE RELEVANT PARTS OF THE NCC BCA. PROVIDE THE EMERGENCY LIGHTING SYSTEM WITH A SUPPLY SENSING AND TESTING FACILITY IN ACCORDANCE WITH AS 2293.1.

THE EXISTING CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

8. COMMUNICATIONS

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE MODIFICATION OF THE EXISTING CAT 6 CABLING AND THE PROVISION OF NEW CAT 6 CABLING AS REQUIRED. THE EXISTING DONALDSON COMMUNICATIONS RACK IS TO BE RETAINED AND UTILISED TO SUPPLY THE NEW DONALDSON COMMUNICATIONS OUTLETS.

THE COMMUNICATIONS OUTLETS WITHIN GERALD ARE TO BE SUPPLIED FROM THE EXISTING SCHOOL HOUSE COMMUNICATIONS RACK.

ALL OF THE EXISTING COMMUNICATION CABLES THAT BECOME REDUNDANT INCLUDING THE EXISTING COPPER TELEPHONE CABLING IS TO BE REMOVED. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- REMOVAL OF EXISTING REDUNDANT CABLING.
- RELOCATION OF EXISTING OUTLETS AS REQUIRED.
- NEW COMMUNICATIONS OUTLETS AS REQUIRED.
- PATCH PANEL MODIFICATIONS WITHIN THE COMMUNICATIONS RACK TO ACCOMMODATE THE CHANGES.
- CABLE ACCESS.

THE EXISTING CAT 6 CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

NOTES

9. ELECTRONIC SECURITY

A.B.C. ALARMS PTY. LTD. ANDRE CAFUN andrec@abcalarms.com.au PH (07) 3849 1939 MOB: 0408 917 505 IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACTOR TO UNDERTAKE ALL WORKS ASSOCIATED WITH THE SECURITY SERVICES INCLUDING THE INTRUDER DETECTION AND ACCESS CONTROL SYSTEMS. THE EXISTING SECURITY PANELS IN DONALDSON ARE TO BE RETAINED AND EXPANDED AS NECESSARY TO ACCOMMODATE THE NEW DONALDSON ACCESS CONTROL AND REED SWITCHES.

NEW SECURITY PANELS / DOOR CONTROLLERS ARE TO BE PROVIDED WITH GERALD NETWORKED TO THE EXISTING SYSTEM TO ACCOMMODATE THE NEW GERALD ACCESS CONTROL AND REED SWITCHES.

THE SECURITY COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- ACCESS CONTROL.
- EXPANDER PANELS.
- CARD READERS.
- ELECTRIC STIKES.
- MAGNETIC HOLDERS.
- DOOR CONTROLLERS.
- INTERFACE THE ACCESS CONTROL SYSTEM TO THE FIP IN EACH BUILDING TO UNLOCK THE ASSOCIATED DOORS UPON ALARM.
- REED SWITCHES.
- REMOVAL OF EXISTING REDUNDANT CABLING AND EXISTING COMPONENTS WITHIN THE SCOPE OF WORK.
- MODIFICATION OF ALL EXISTING EXPOSED SECURITY SERVICES WITHIN THE SCOPE OF THE WORKS SUCH THAT THEY ARE CONCEALED UNLESS SPECIFICALLY REQUIRED TO BE EXPOSED FOR THE OPERATION OF THE COMPONENT.
- TESTING AND COMMISSIONING.

THE EXISTING CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

10. SCHOOL BELL PA

A.B.C. ALARMS PTY. LTD. ANDRE CAFUN andrec@abcalarms.com.au PH (07) 3849 1939 MOB: 0408 917 505 IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACTOR TO UNDERTAKE ALL WORKS ASSOCIATED WITH THE SCHOOL BELL PA SYSTEM.

PROVIDE THE DONALDSON RACK WITH A SCHOOL BELL AMPLIFIER AND A TERACOM TERR-EX IP -AUDIO DECODER TO SUPPLY ALL OF THE DONALDSON SCHOOL BELL SPEAKERS.

THE EXISTING SCHOOL HOUSE TERRACOM SYSTEM / AMPLIFIERS ARE TO BE USED TO SUPPLY THE GERALD SPEAKERS. THE SCHOOL BELL PA COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NEW SPEAKERS AND CABLING AS REQUIRED.
- REMOVAL OF EXISTING REDUNDANT BELL / PA SYSTEM CABLING WITHIN THE SCOPE OF THE WORKS.
- MODIFICATION OF ALL EXISTING EXPOSED SCHOOL BELL PA SERVICES WITHIN THE SCOPE OF THE WORKS SUCH THAT THEY ARE CONCEALED UNLESS SPECIFICALLY REQUIRED TO BE EXPOSED FOR THE OPERATION OF THE COMPONENT.
- DONALDSON AMPLIFIER AND TERRA-EX IP DECODER.
- TESTING AND COMMISSIONING.

THE EXISTING CABLING AND SPEAKERS CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

11. FIRE ALARM

THE FIRE ALARM COMPONENT OF THIS CONTRACT IS TO INCLUDES REPLACING THE EXISTING FIRE ALARM DETECTORS WITH AS1670.1 COMPLIANT ADDRESSABLE DETECTORS AND REPLACING THE EXISTING SPEAKERS WITH AS1670.1 COMPLIANT SPEAKERS.

THE DONALDSON FIP IS TO BE RETAINED AND AN ADDRESSIABLE LOOP PROVIDED TO SERVICE THE DONALDSON DETECTORS. INTERFACE THE DONALDSON FIP TO THE SPRINKLER SYSTEM TO GENERATE AN ALARM WITHIN THE DONALDSON BUILDING WHEN THE ASSOCIATED SPRINKLERS ARE ACTIVATED.

THE GERALD DETECTORS ARE TO BE PROVIDED WITH A DEDICATED LOOP FROM THE EXISTING SCHOOL HOUSE FIP. INTERFACE THE SCHOOL HOUSE FIP TO THE GERALD WING SPRINKLER SYSTEM TO GENERATE AN ALARM WITHIN THE SCHOOL HOUSE BUILDING WHEN THE GERALD WING SPRINKLERS ARE ACTIVATED.

THE FIRE ALARM COMPONENT OF THIS CONTRACT IS TO INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- UPGRADE / REPLACEMENT AS NECESSARY OF THE EXISTING FIRE INDICATOR PANELS.
- INTERFACE THE FIP TO THE ACCESS CONTROL SYSTEM IN EACH BUILDING TO UNLOCK THE ASSOCIATED DOORS UPON ALARM.
- SPEAKERS.
- ADDRESSABLE SMOKE DETECTORS.
- ADDRESSABLE THERMAL DETECTORS.
- ADDRESSABLE CONCEALED SPACE DETECTORS C/W REMOTE INDICATORS AND REMOTE ACCESS BRACKETS AS REQUIRED.
- CABLING.
- REMOVAL OF EXISTING REDUNDANT CABLING AND EXISTING COMPONENTS WITHIN THE SCOPE OF THE WORKS.
- SYSTEM DIAGRAM.
- PROVISION OF ANY ADDITIONAL SPEAKERS TO ACHIEVE EVACUATION SOUND LEVELS WITH A MINIMUM OF 10DB (A) ABOVE AMBIENT, AND NOT LESS THAN 65DB (A) AND NO MORE THAN 105DB (A).
- TESTING AND COMMISSIONING.
- LOG BOOK.
- MAINTENANCE DURING THE DEFECTS AND LIABILITY PERIOD IN ACCORDANCE WITH MP6.1 OF THE QDC AND AS1851.
- PAY ALL COSTS ASSOCIATED WITH THE ISOLATION AND RECONNECTION OF THE BRIGADE MONITORING OF THE FIRE ALARM SYSTEM.

REMOVE ALL EXISTING REDUNDANT FIRE ALARM SERVICES.

THE EXISTING CABLING CAN BE REUSED IF IT IS IN APPROPRIATE CONDITION AND THE CONTRACTOR ASSUMES FULL WARRANTY OVER IT AS IF THEY HAVE INSTALLED IT AS PART OF THESE WORKS.

THE CONTRACTOR IS RESPONSIBLE FOR PAYING ANY CALL OUT FEES ISSUED BY QFES THAT ARE THE RESULT OF DEFECTIVE WORKS, CABLING OR SYSTEM COMPONENTS

ENSURE ALL WORKS INSTALLED UNDER THE FIRE ALARM SYSTEM COMPONENT OF THE ELECTRICAL SUB-CONTRACT IS UNDERTAKEN BY, OR UNDER THE DIRECTION OF A SUITABLY QUALIFIED AND EXPERIENCED FIRE ALARM SYSTEM INSTALLER WHO HOLD THE REQUIRED QBCC AND FIRE PROTECTION CONTRACTORS REGISTRATION BOARD OF QUEENSLAND INC REGISTRATIONS.

NOTES

12. ABBREVIATIONS

A - AMP CURRENT RATING
AB - MOUNT ABOVE BENCH.
AFFL - ABOVE FINISHED FLOOR LEVEL.
BB - MOUNT BELOW BENCH.
BH - MOUNT ON BULKHEAD.
BMS - BUILDING MANAGEMENT SYSTEM.
CEIL - MOUNT ON CEILING.
CS - MOUNT WITHIN CEILING SPACE.
C/W - COMPLETE WITH.
DW - DISHWASHER.
HP - HOT PLATE.
MCB - MINIATURE CIRCUIT BREAKER.
MCCB - MOULDED CASE CIRCUIT BREAKER.
MSB - MAIN SWITCHBOARD.
MSSB - MECHANICAL SERVICES SWITCHBOARD.
MW - MICROWAVE.
N - NEON / LED INDICATOR WHEN ON.
NTS - NOT TO SCALE.
OV - OVEN.
RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER.
REF - REFRIGERATOR.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

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		ALL DIMENSIONS TO BE VERIFIED ONSITE.		BRISBANE GOLD COAST		SCALE: NOT TO SCALE AT A1	
				P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au		PROJECT NO: C3247a	
				OAKLANDS PARADE, EAST BRISBANE		DRAWING NO: E03	
						REVISION: E	

TOILETS
DB-AN - L4

ENTRY STAIR
DB-AN - L2

NIGHT LIGHT
DB-AN - L6

UPPER LEVEL
DB-AN - L5

DONALDSON
UPPER LEVEL REFLECTED CEILING PLAN
SCALE 1:50

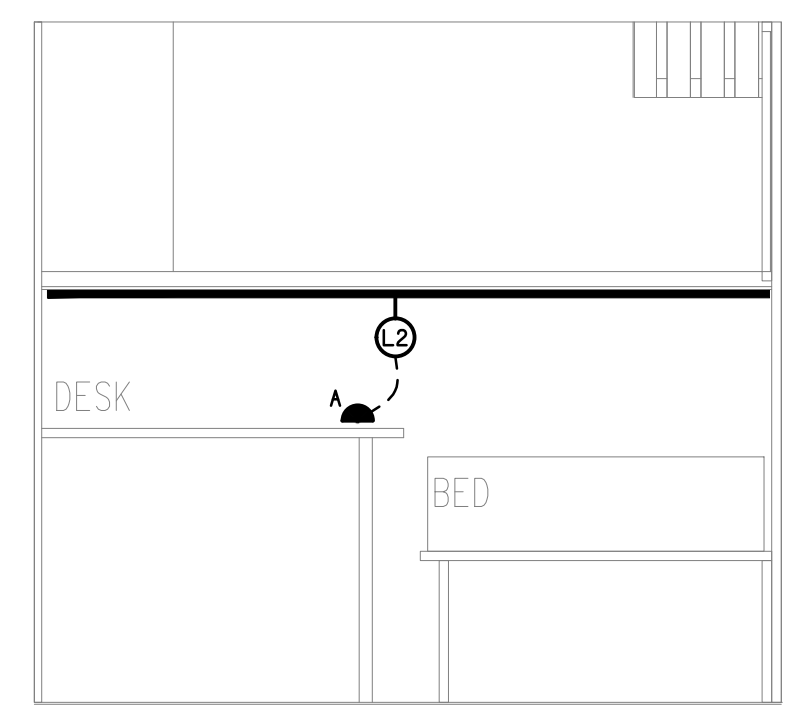
UPPER
DB-AN - P9

POD 10-16
DB-AN - P12

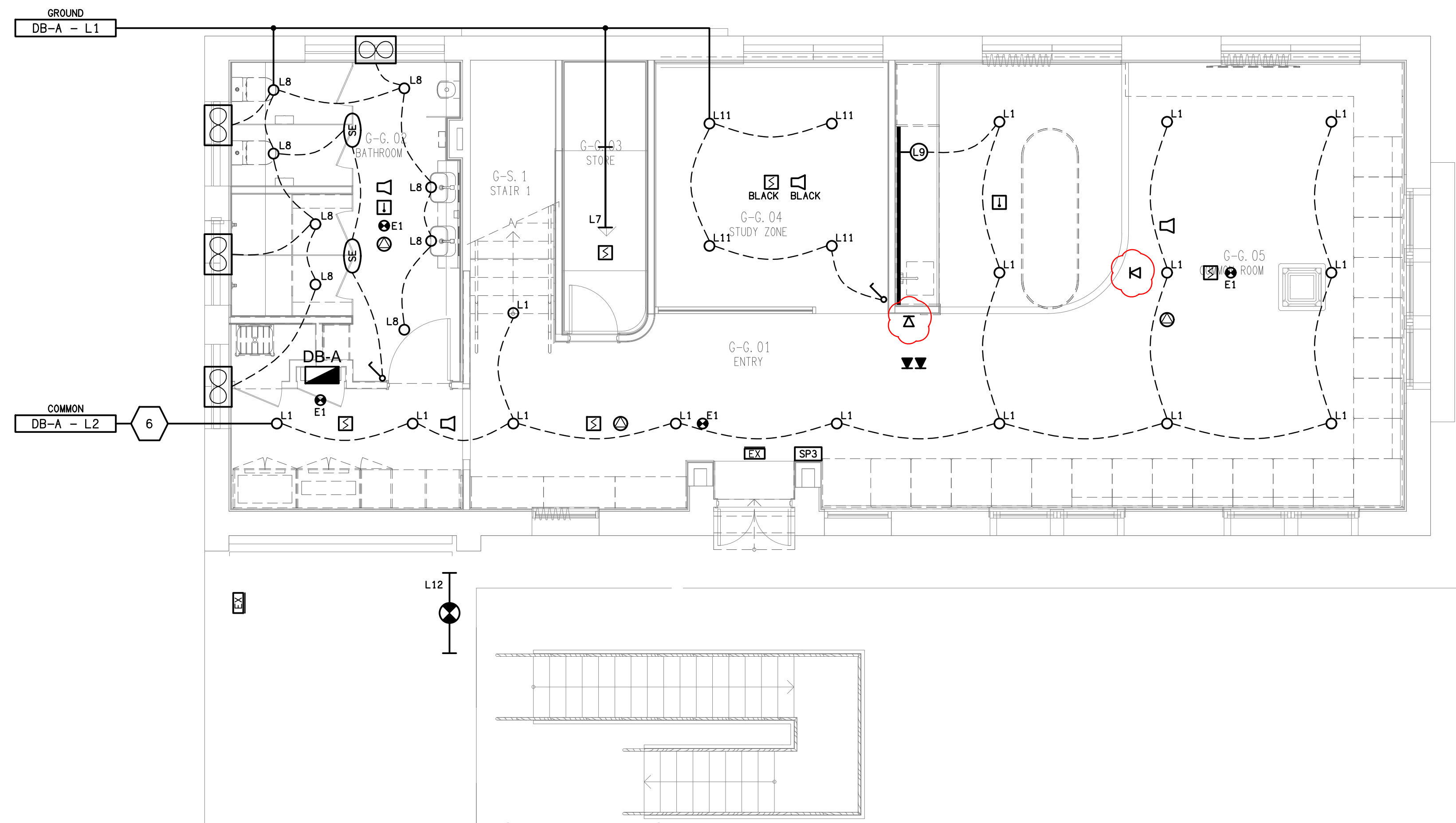
POD 1-5
DB-AN - P10

POD 6-9
DB-AN - P11

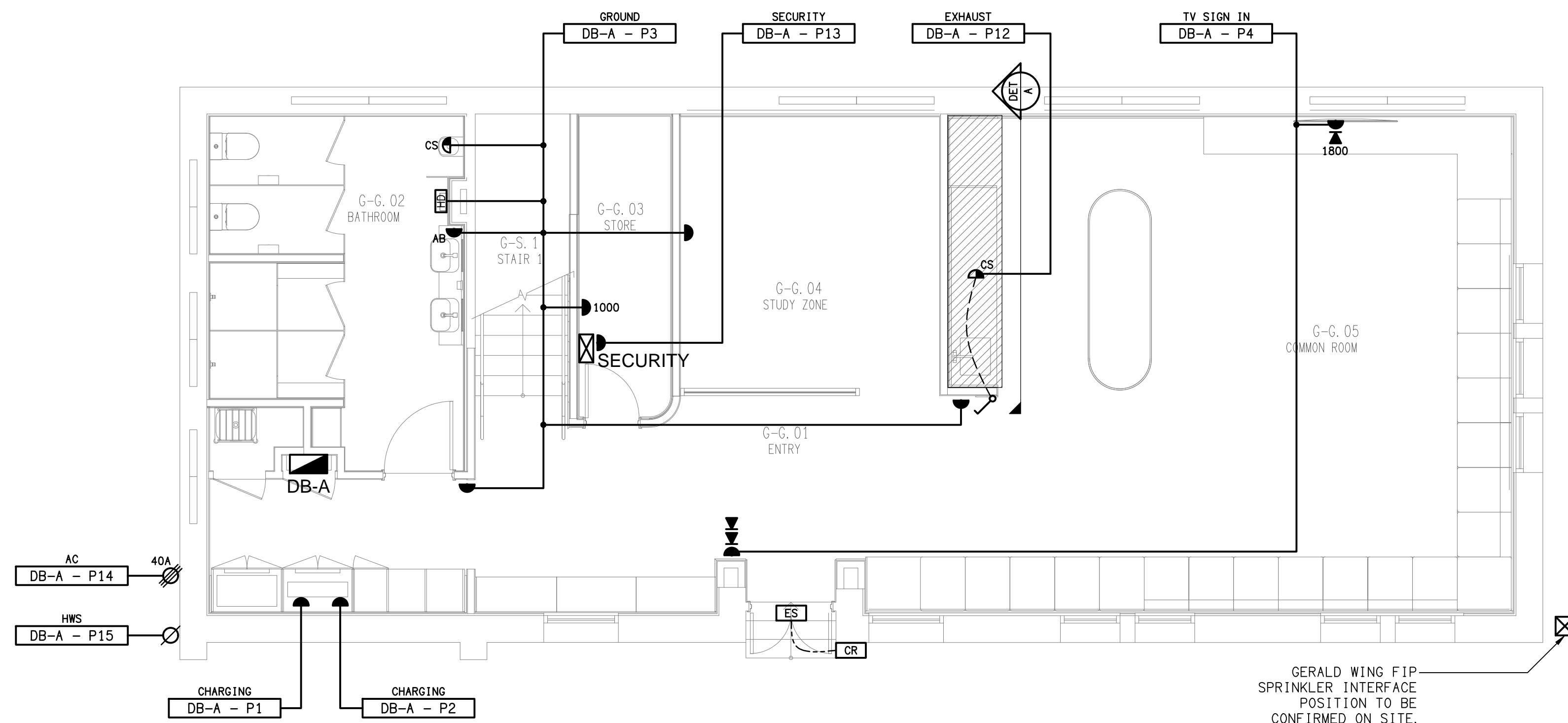
DONALDSON
UPPER LEVEL FLOOR PLAN
SCALE 1:50



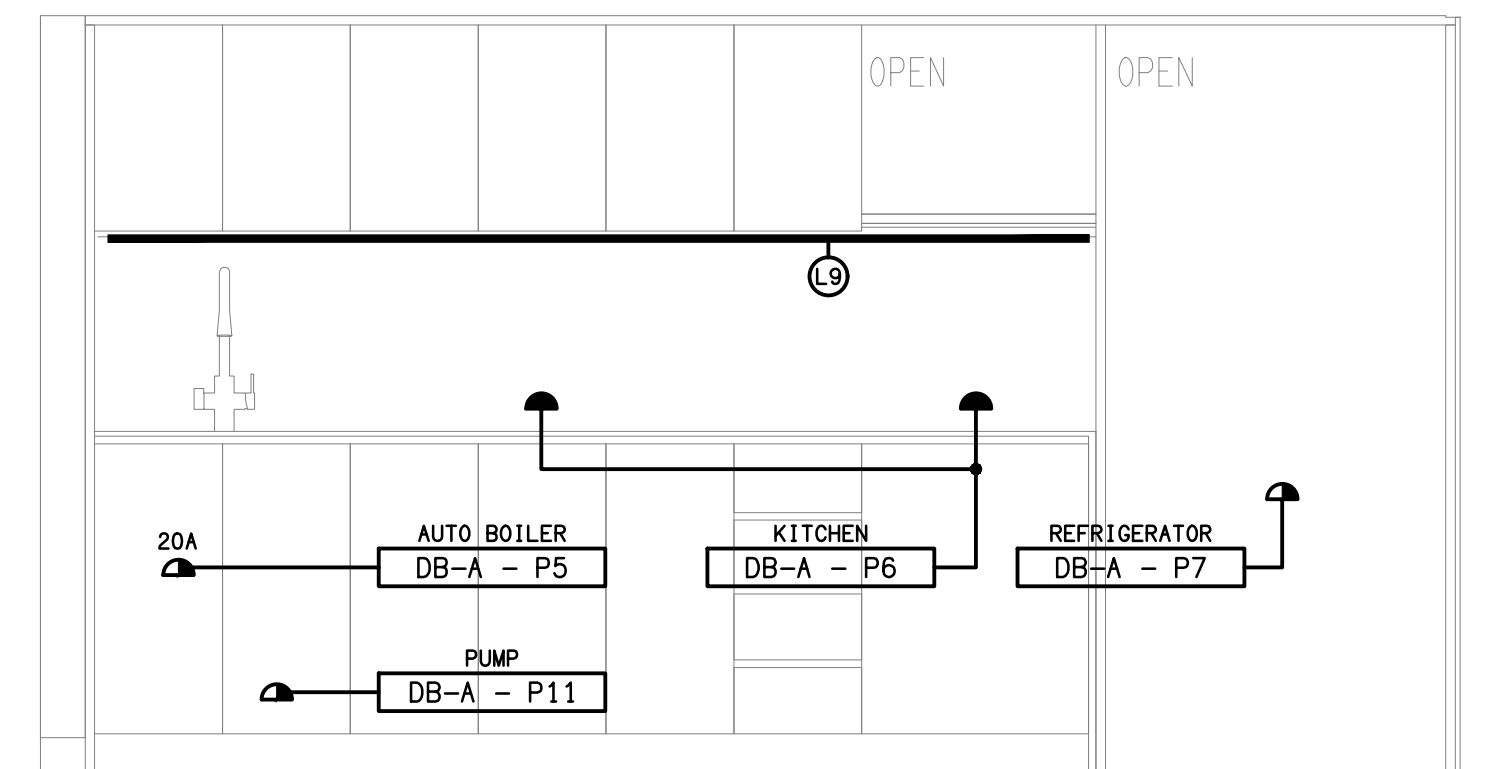
DETAIL A
TYPICAL BEDROOM POD 3 ELEVATION
SCALE 1:20



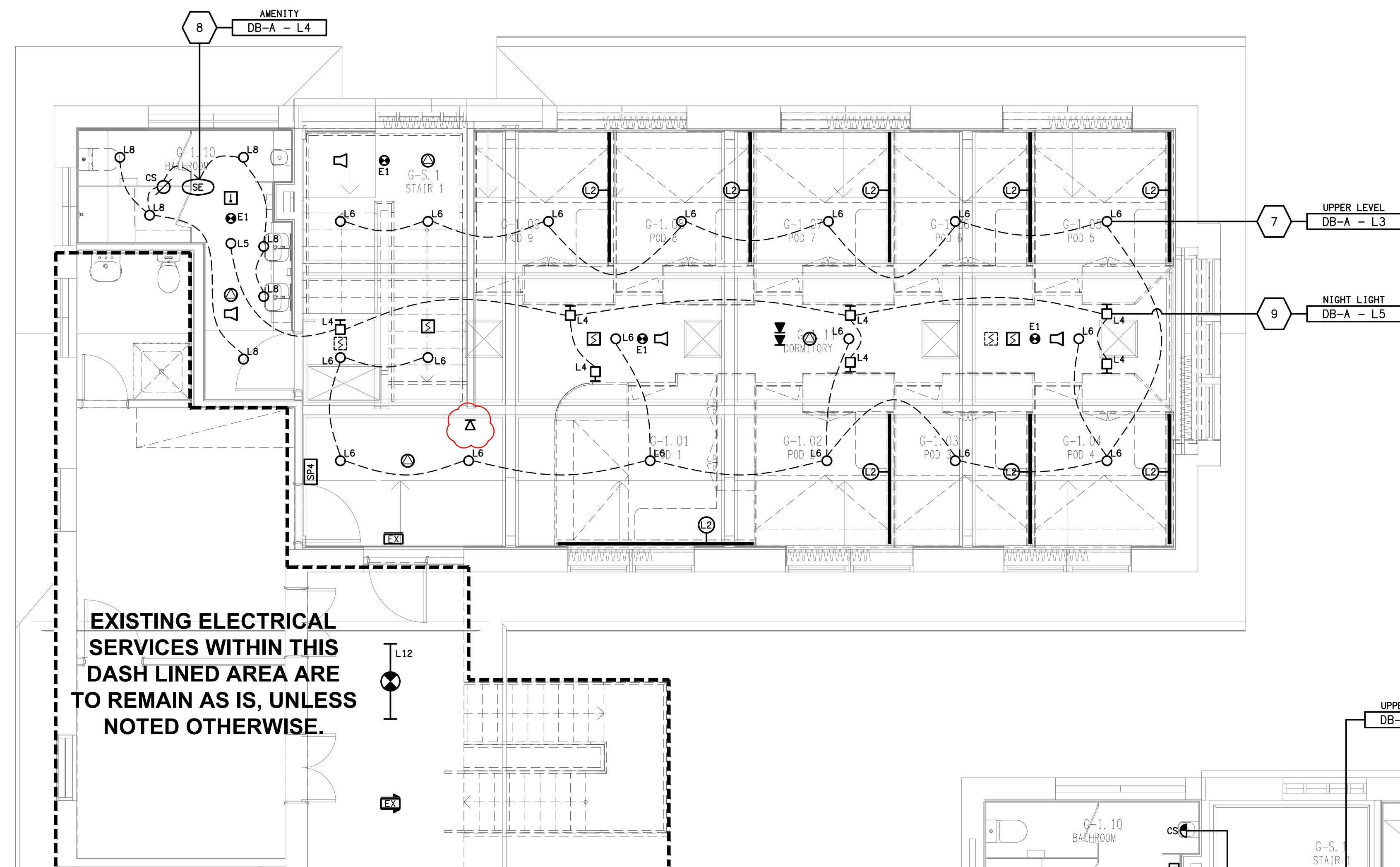
GERALD WING
GROUND LEVEL REFLECTED CEILING PLAN
SCALE 1:50



GERALD WING
GROUND LEVEL FLOOR PLAN
SCALE 1:50

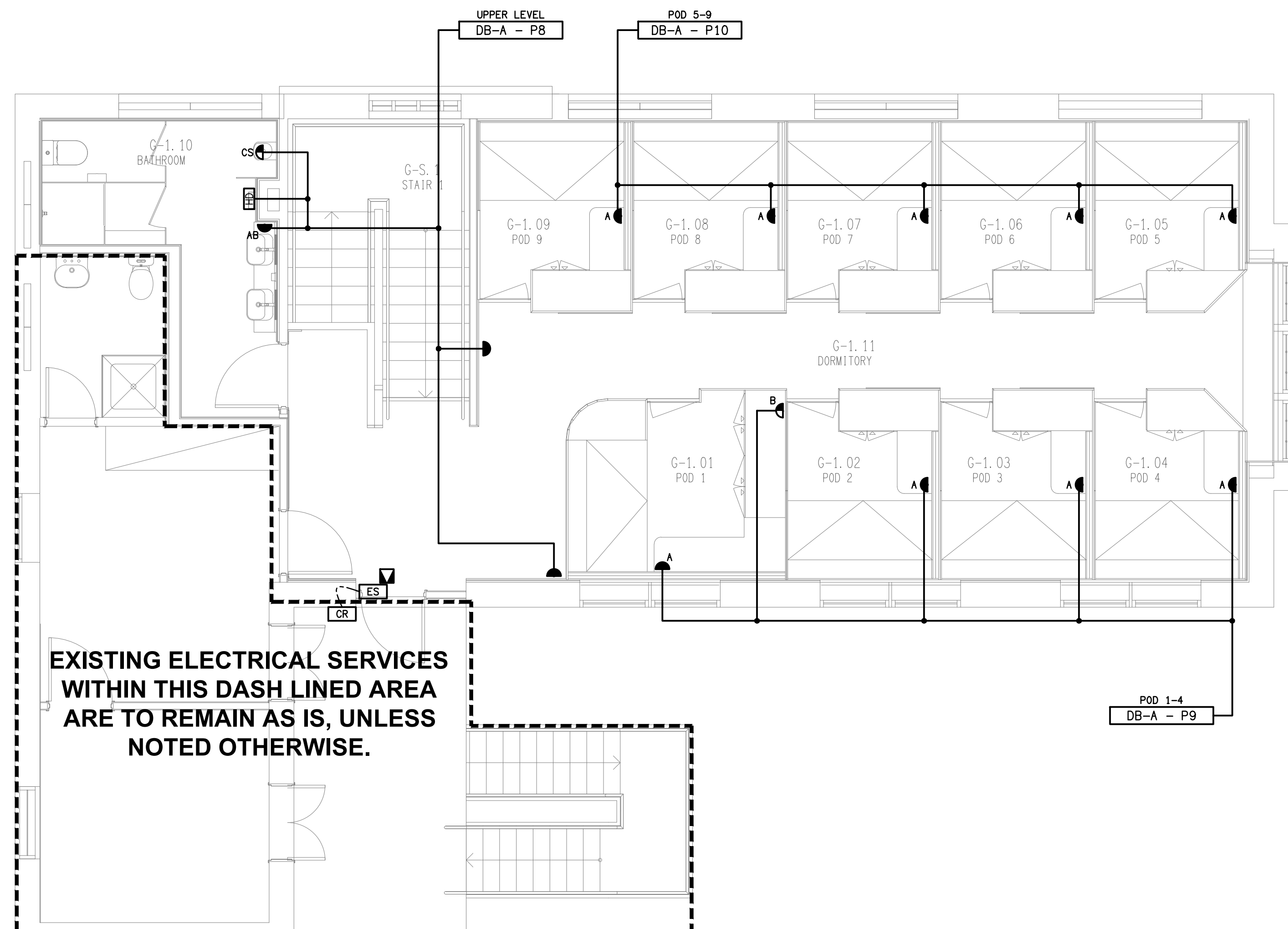


DETAIL A
KITCHENETTE ELEVATION
SCALE 1:20



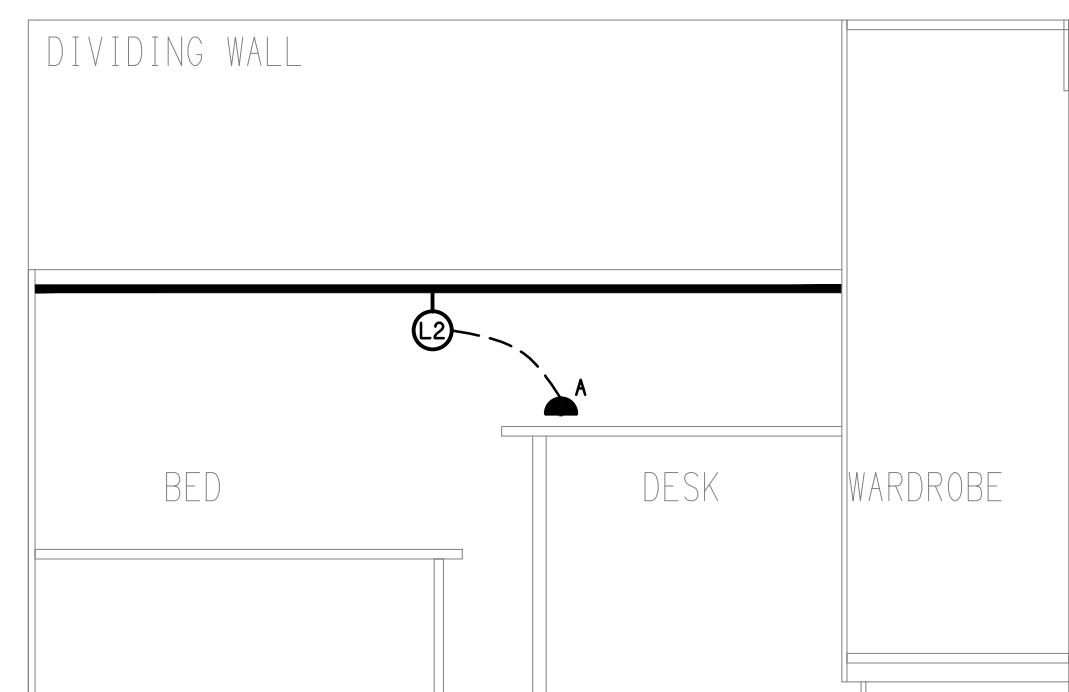
EXISTING ELECTRICAL SERVICES WITHIN THIS DASH LINED AREA ARE TO REMAIN AS IS, UNLESS NOTED OTHERWISE.

GERALD WING
UPPER LEVEL REFLECTED CEILING PLAN
SCALE 1:50



EXISTING ELECTRICAL SERVICES WITHIN THIS DASH LINED AREA ARE TO REMAIN AS IS, UNLESS NOTED OTHERWISE.

GERALD WING
UPPER LEVEL FLOOR PLAN
SCALE 1:50



DETAIL A
TYPICAL BEDROOM POD 1 ELEVATION
SCALE 1:20

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ELECTRICAL BUILDING SERVICES CONSULTANTS
BRISBANE GOLD COAST

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PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 7 BOARDING

OAKLANDS PARADE, EAST BRISBANE

G	CONSTRUCTION	30/09/2024
REV.	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES
GERALD WING UPPER LEVEL PLANS

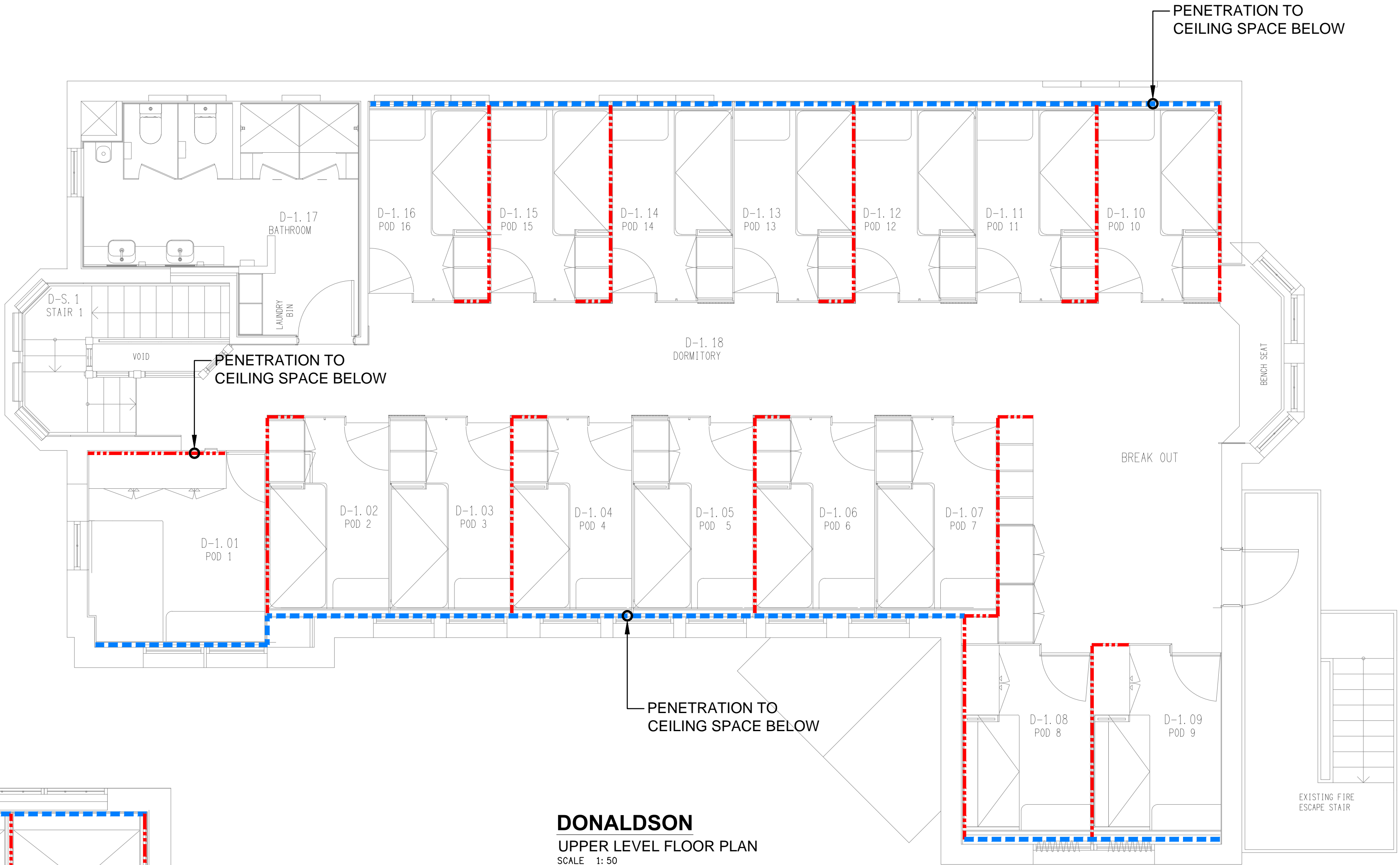
SCALE:
1:50 UNO AT A1

PROJECT NO:
C3247a
DRAWING NO:
E07
REVISION:
G

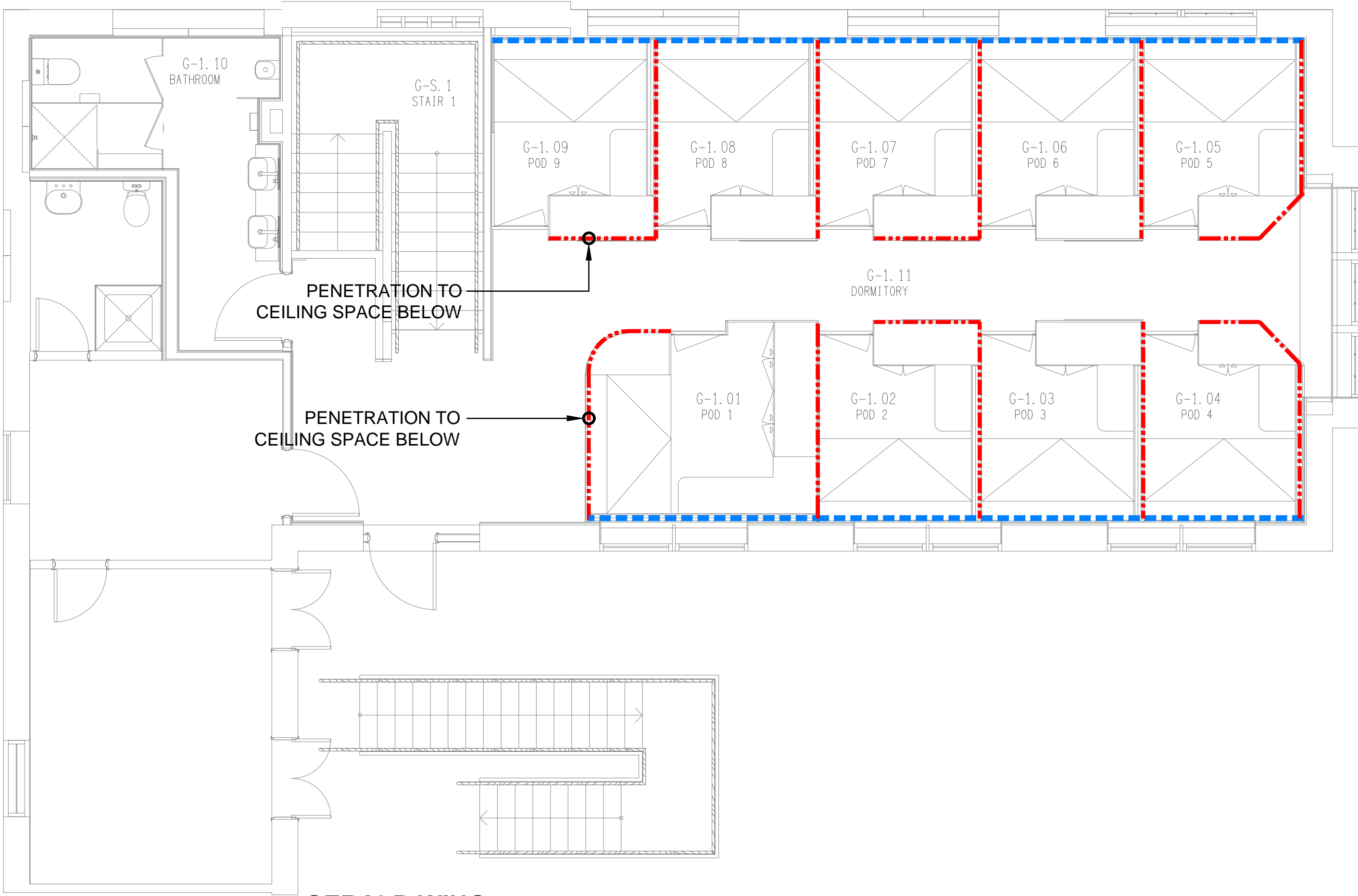
LINETYPES:

--- CABLE ACCESS THROUGH THE JOINERY SKIRTING KICK.

--- CABLE ACCESS THROUGH THE JOINERY FALSE WALL.



DONALDSON
UPPER LEVEL FLOOR PLAN
SCALE 1:50



GERALD WING
UPPER LEVEL FLOOR PLAN
SCALE 1:50

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PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 7 BOARDING

OAKLANDS PARADE, EAST BRISBANE

D	CONSTRUCTION	24/07/2024
REV.	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES
CABLE ACCESS PLANS

SCALE:
1:50

AT A1

PROJECT NO:
C3247a

DRAWING NO:
E08

REVISION:
D