

C3733a - ACGS - YEAR 5 & 6 PRECINCT

C3733a-0001(T2).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION T2 - 07 OCTOBER 2026

ISSUING INFORMATION				DATE OF ISSUE									
				DAY	29	11	07						
				MONTH	07	09	10						
				YEAR	26	26	26						
REASON FOR ISSUE				P	T	T							
A = APPROVAL	C = CONSTRUCTION	N = COORDINATION	P = PRELIMINARY	T = TENDER									

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ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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ELECTRICAL EQUIPMENT SCHEDULE

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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	26W 4000K	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN THE CEILING T-BAR	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-26W	T1
L2	26W 4000K	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PB MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K-26W C/W FLUSH RECESS PB KIT	T1
L3	14.4W/M 4000K LED	LED STRIP WITHIN A SCREW FIXED EXTRUSION C/W DIFFUSER MOUNTED WITHIN THE JOINERY RECESS AS PER THE ARCHITECTURAL DETAIL TO ILLUMINATE DOWNWARDS. PROVIDE THE STRIP WITH A REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	RAPID LED R2334 4000 K PLUS ALUMINIUM EXTRUSION OPAL DIFFUSER AND POWER SUPPLY	T1
L4	13W 4000K LED	RECESSED 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM SILVER REFLECTOR	GAMMA ILLUMINATION COBALT 1402-4K-13W	T1
L5	13W 4000K LED	RECESSED 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM SILVER REFLECTOR	GAMMA ILLUMINATION COBALT 1402-4K-13W	T1
L6	13W 4000K LED	RECESSED 55 DEG BEAM ADJUSTABLE DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM WHITE REFLECTOR	GAMMA ILLUMINATION MYLO 1004-VWFL-4K-13W	T1
L7	13W 4000K LED	RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	BLACK	GAMMA ILLUMINATION COBALT 1401-4K-13W	T1
L8	22W 4000K LED	RECESSED 41 DEG BEAM DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	BLACK	GAMMA ILLUMINATION COBALT 1402-4K-22W	T1
L9	45W 4000K LED	RECESSED 54 DEG BEAM DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE	GAMMA ILLUMINATION COBALT 1404-4K-45W	T1



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L10	14.4W/M 4000K LED	LED STRIP WITHIN A SCREW FIXED EXTRUSION C/W DIFFUSER MOUNTED WITHIN THE JOINERY RECESS AS PER THE ARCHITECTURAL DETAIL TO ILLUMINATE DOWNWARDS. PROVIDE THE STRIP WITH A REMOTE DALI DIMMABLE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	RAPID LED R2334 4000 K PLUS ALUMINIUM EXTRUSION OPAL DIFFUSER AND POWER SUPPLY	T1
L11	13W 4000K LED	RECESSED 41 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE	GAMMA ILLUMINATION CORBEL 1413-4K-13W	T1
L12	22W 4000K LED	RECESSED 41 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE	GAMMA ILLUMINATION CORBEL 1413-4K-22W	T2
L13	22W 4000K LED	SURFACE MOUNTED 305 DIA BUNKER C/W INTEGRAL DRIVER	GRAPHITE	BEGA 33 683	T1
L14	10W/M 3000K LED	IP67 LED FLEX SCREW FIXED WITHIN THE EXTERNAL SCREEN RECESS AS PER THE SECTION AND ARCHITECTURAL DETAIL TO ILLUMINATE UPWARDS. PROVIDE THE STRIP WITH REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS. CONFIRM THE BEND PLANE (TOP OR SIDE) ON SITE WITH THE ARCHITECT.	WHITE	RAPID LED R2321 OR R2322 - 3000K + POWER SUPPLY	T1
L15	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND SENSOR	LIGHT GREY	GAMMA STORM 1558-CCT-36W MS	T1
L16	26W 4000K	300 x 1200 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PB MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1659-4K-26W C/W FLUSH RECESS PB KIT	T1
L17	45W LED 4000K	1200 LONG IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND A NON MAINTAINED AS2293 EMERGENCY PACK SUSPENDED / SURFACE MOUNTED AS REQUIRED. THE L08 FITTINGS ARE NOT SWITCHED AND ARE TO ONLY OPERATE UPON POWER SUPPLY FAILURE IN ACCORDANCE WITH AS2293	NA	GAMMA ILLUMINATION STORM 1311-4K	T1
L18	39.3W LED 4000K	SURFACE MOUNTED CAN DOWNLIGHT C/W INTEGRAL DALI DIMMABLE DRIVER PROVIDE MOUNTINGS TO ALLOW THE FITTINGS TO BE INSTALLED LEVEL.	GRAPHITE	BEGA 66058K4	T1
L19	120W 4000K LED	HIGH BAY C/W INTEGRAL DRIVER AND STAINLESS STEEL WIRE SAFETY LANYARD. CHAIN SUSPENDED AS HIGH AS PRACTICAL	BLACK	RAPID LED R3118	T1



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L20	12W/M +/- 10% 3000K 24V LED	STEP TREAD EXTRUSION C/W IP65 LED STRIP AND DIFFUSER REMOTE DALI DIMMABLE DRIVER LOCATED IN A CONCEALED ACCESSIBLE POSITION. ENSURE THE DRIVER IS LOCATED ON THE AS CONSTRUCTED DRAWINGS.	ANODISED SILVER	SUPERLIGHT SL8488- 00 + SL8488-12 + 24 V LED STRIP	T1
L21	13W 4000K LED	RECESSED 21 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	BLACK	GAMMA ILLUMINATION CORBEL 1413-SP-4K- 13W	T1
L22	76W 3000K LED PER FITTING	DUAL WIDE BEAM ADJUSTABLE FLOOD LIGHTS C/W INTEGRAL DALI DIMMABLE DRIVER MOUNTED ON A 4m HIGH ROUND BLACK POLE PROVIDE A SHOP DRAWING OF THE POLE MOUNTING BRACKET AND FOOTING FOR APPROVAL AND CERTIFICATION BY A STRUCTURAL ENGINEER OF THE POLE AND FOOTING.	GRAPHITE	TWO OFF BEGA 85138 K3 + 70 379 PER FITTING	T2
L23	76W 3000K LED	WIDE BEAM ADJUSTABLE FLOOD LIGHT C/W INTEGRAL DALI DIMMABLE DRIVER MOUNTED ON A 4m HIGH ROUND BLACK POLE PROVIDE A SHOP DRAWING OF THE POLE AND FOOTING FOR APPROVAL AND CERTIFICATION BY A STRUCTURAL ENGINEER OF THE POLE AND FOOTING.	GRAPHITE	BEGA 85158 K3 + 70 249	T2
L24	31W 4000K LED	AREA LIGHT MOUNTED ON A 4m HIGH ROUND BLACK POLE PROVIDE A SHOP DRAWING OF THE POLE AND FOOTING FOR APPROVAL AND CERTIFICATION BY A STRUCTURAL ENGINEER OF THE POLE AND FOOTING.	BLACK FITTING AND POLE	GERARD LIGHTING DISANO STELVIO 3300398-00	T1
L25	108W 4000K LED	WIDE BEAM ADJUSTABLE FLOOD LIGHT C/W INTEGRAL DALI DIMMABLE DRIVER WITH A CUSTOM MOUNTING BRACKET MOUNTED TO THE HIGH LEVEL SOFFIT / FACIA OF THE COVERED COURT TO ILLUMINATE THE TIERED SEATING.	GRAPHITE	BEGA 85134K4	T1
L26	108W 4000K LED	WIDE BEAM ADJUSTABLE FLOOD LIGHT C/W INTEGRAL DALI DIMMABLE DRIVER WITH A CUSTOM MOUNTING BRACKET MOUNTED TO THE HIGH LEVEL SOFFIT / FACIA TO ILLUMINATE THE PLAY GROUND.	GRAPHITE	BEGA 85134K4	T1
L27	31W 4000K LED	WALL MOUNTED AREA LIGHT C/W INTEGRAL DRIVER.	BLACK	GERARD LIGHTING DISANO STELVIO 3300398-00	T1
L28	15W 4000K LED	AREA LIGHT MOUNTED ON A 4m HIGH ROUND BLACK POLE PROVIDE A SHOP DRAWING OF THE POLE AND FOOTING FOR APPROVAL AND CERTIFICATION BY A STRUCTURAL ENGINEER OF THE POLE AND FOOTING.	BLACK	GERARD LIGHTING DISANO STELVIO MINI 3278 FX T3	T1



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L29	22W 4000K LED	SURFACE MOUNTED 305 DIA BUNKER C/W INTEGRAL DALI DIMMABLE DRIVER	GRAPHITE	BEGA 33 683	T1
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	CLEVERTRONICS LLIFE	T1
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	BLACK	CLEVERTRONICS LLIFE-BLK	T2
E3	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	CLEVERTRONICS CLIFE-SM	T1
EX	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING SURFACE MOUNT 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. AS2293 CLASSIFICATION C0-D6.3- C90-E3.2.	WHITE	CLEVERTRONICS LSBLED	T1
EX BK	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING SURFACE MOUNT 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. AS2293 CLASSIFICATION C0-D6.3- C90-E3.2.	BLACK	CLEVERTRONICS LSBLED-BLK	T1
EX WP	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN AND A IP56 HOUSING 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. AS2293 CLASSIFICATION C0-D3.2 - C90-E2.	WHITE LOGO GREEN BACKGROUND WHITE BODY	CLEVERTRONICS CWELED-A	T1
EMERGENCY PACK		LIGHT FITTINGS THAT ARE DESIGNATED AS BEING PROVIDED WITH AN EMERGENCY PACK ARE TO BE PROVIDED WITH AN INTEGRAL AS2293 EMERGENCY PACK. THE FITTINGS ARE TO BE NON MAINTAINED WITH ALL LAMPS SWITCHED AS PER THE LIGHTING CONTROL FOR THAT SPACE UNLESS NOTED OTHERWISE. REFER TO THE NOTES FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			T1
ONE-WAY LIGHT SWITCH		ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC SERIES	T1



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TWO-WAY LIGHT SWITCH		TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC SERIES	T1
DALI LIGHT SWITCH		MANUAL ROTARY DALI POT DIMMER	WHITE	ZEN CONTROL ZC ROTARY	T1
DALI PSU		DALI POWER SUPPLY DIN RAIL MOUNTED IN DB-B	WHITE	ZEN CONTROL ZC PSU	T1
CONTACTOR Cx		HEAVY DUTY CONACTOR			T2
PE CELL SWITCH		ADJUSTABLE PHOTO ELECTRIC LIGHT LEVEL SWITCH. PROVIDE DETAILS OF THE PROPOSED PE SWITCH FOR APPROVAL.			T2
TIME CLOCK SWITCH		7-DAY, 24-HOUR TIME SWITCH C/W 48 HOUR BATTERY BACKUP. PROVIDE DETAILS OF THE PROPOSED TIME SWITCH FOR APPROVAL.			T2
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE PIR PRESENCE DETECTOR TO OPERATE THE ASSOCIATED LIGHTS FOR A PRE-SET AMOUNT OF TIME. ADJUST THE TIME AND SENSITIVITY ON SITE AS DIRECTED BY THE ENGINEER. SUBMIT DETAILS OF THE MOVEMENT DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	WHITE	CLIPSAL	T2
CHANNEL x		CONTROL CHANNEL WITH A NUMERICAL REFERENCE. REFER TO THE POWER AND LIGHTING CONTROL SCHEMATIC / SCHEDULE			T2
SWITCH PANEL 1 SP1		PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. CONFIGURE THE SP1 AS PER THE SP1 SCHEMATIC.	WHITE	ZEN CONTROL SSD	T1
SWITCH PANEL2 SP2		ONE-WAY LIGHT SWITCH CONFIGURED AS PER THE SP2 SCHEMATIC C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC SERIES	T1
SWITCH PANEL 3 SP3		MULTIPLE MULTI GANG LIGHT SWITCH PANELS CONFIGURED AS PER THE SP3 SCHEMATIC. MOUNT THE SWITCH PANELS WITHIN A FLUSH 316 STAINLESS STEEL ENCLOSURE WITH A HINGED LOCKABLE DOOR KEYED TO THE SCHOOLS MASTER KEY SYSTEM. MOUNT AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL ICONIC SERIES	T1
SINGLE POWER OUTLET		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL ICONIC SERIES	T1



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SUSPENDED SINGLE POWER OUTLET		SUSPENDED SINGLE 10 POWER OUTLET. PROVIDE A 3MM STAINLESS STEEL WIRE SUPPORT AND CONFIRM THE SUSPENSION HEIGH WITH THE SCHOOL ON SITE.	GREY	CLIPSAL SS15-GY	T1
DOUBLE POWER OUTLET		DOUBLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE	CLIPSAL ICONIC SERIES	T1
DOUBLE POWER OUTLET (USB)		DOUBLE POWER OUTLET C/W USB CHARGER AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL ICONIC SERIES PLUS 40E2USBACM-VW	T1
WEATHERPROOF POWER OUTLET (WP)		IP54 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING C/W COVER FLAP OVER SOCKET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL WSCF227F	T1
IP56 WEATHERPROOF POWER OUTLET (WP)		IP56 WEATHERPROOF SINGLE / DOUBLE POWER OUTLET AS NOTED ON DRAWING. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 10A U.N.O.	-	CLIPSAL "56 SERIES"	T1
RECESS KIT (RK)		VERTICALLY ORIENTATED WALL BOX TO ALLOW THE OUTLET TO BE RECESSED WITHIN THE WALL CAVITY	WHITE	REPELEC RECWP1WH	T1
BLACK FITTING (BK)		FITTING / OUTLET NOTED AS BK IS TO BE PROVIDED AS BLACK IN COLOUR OR PAINTED BLACK.	BLACK	-	T1
SPECIAL PURPOSE POWER OUTLET		SPECIAL PURPOSE POWER OUTLET. MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. SIZE AND TYPE AS NOTED	-	-	T1
HAND DRYER CONNECTION (HD)		THE ELECTRICAL SUB CONTRACTOR IS TO TAKE POSSESSION OF THE HAND DRYER AND INSTALL IT WITH 20A ISOLATING SWITCH WALL MOUNTED CONNECTED TO THE HAND DRYER UNIT AS PER DETAIL. PROVIDE CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND	WHITE	CLIPSAL ICONIC SERIES	T1
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	T1
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	T1
MSB-P		EXISTING MAIN SWITCHBOARD TO BE MODIFIED AS PER THE POWER SCHEMATIC AND ASSOCIATED NOTES.			T1
MDB-P		EXISTING DISTRIBUTION BOARD WITHIN THE MAIN SWITCHBOARD TO BE REMOVED. RESUPPLY THE EXISTING MDB-P CIRCUITS FROM THE EXISTING DISTRIBUTION BOARD DB-PL. REMOVE THE CURRENT LIMITERS AND PROVIDE BLANK POLE FILLERS IN THE ESCUTCHEON.			T1

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Pages inc. any attach. 6 of 12



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DB-PS1		EXISTING DISTRIBUTION BOARD TO BE REMOVED			T1
DB-PS2		EXISTING DISTRIBUTION BOARD TO BE REMOVED			T1
DB-PA		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
DB-P1		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
DB-PL		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
MDB-C		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
DB-C		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
DB-D		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
MSSB-3		EXISTING MECHANICAL SERVICES SWITCHBOARD TO REMAIN AS IS.			T1
DB-PN		EXISTING DISTRIBUTION BOARD TO REMAIN AS IS.			T1
MDB-A		PROVIDE A NEW MAIN DISTRIBUTION BOARD MDB-A AS PER THE POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			T1
DB-B		PROVIDE A NEW DISTRIBUTION BOARD DB-B AS PER THE DB-B SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			T1
DB-G		PROVIDE A NEW DISTRIBUTION BOARD DB-G AS PER THE DB-G SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			T1
DB-1		PROVIDE A NEW DISTRIBUTION BOARD DB-1 AS PER THE DB-1 SCHEDULE, POWER SCHEMATICS AND NOTES. PROVIDE A SHOP DRAWING THE ESCUTCHEON IS TO BE HINGED AND SECURED VIA 1/4 TURN LATCHES. ENSURE THE ESCUTCHEON CAN BE OPENED WITHOUT ISOLATING THE POWER.			T1
MSSB		NEW MSSB PROVIDED AS PART OF THE MECHANICAL SERVICES SUB CONTRACT. COORDINATE THE CONNECTION OF THE SUBMAIN TO THE MSSB AND THE LOCATION OF THE COMMUNICATIONS OUTLETS WITHIN THE MSSB WITH THE MECHANICAL SERVICES SUB CONTRACTOR.			T1



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KWH		SUPPLY AUTHORITY CODE COMPLIANT LV MAXIMUM DEMAND TARIFF METER. TO REMAIN AS IS			T1
M		EXISTING BMS METER TO REMAIN AS IS			T1
COMMUNICATIONS RACK CR-A		EXISTING JUNIOR SCHOOL ADMINISTRATION COMMUNICATIONS RACK TO REMAIN AS IS			T2
COMMUNICATIONS RACK CR-56		FREE STANDING 42 RU MINIMUM 800 DEEP COMMUNICATIONS RACK CR-56 PROVIDE A SHOP DRAWING OF THE RACK INCLUDING THE ARRANGEMENT OF EQUIPMENT PROVIDED WITHIN IT AS PART OF THE CONTRACT FOR APPROVAL. PROVIDE THE RACK WITH TWO 10 PORT VERTICALLY MOUNTED POWER RAILS, THE REQUIRED CAT 6 PATCH PANELS, CABLE MANAGEMENT, A FIBER OPTIC AND AN OPTICAL FIBRE CONNECTIONS AS PER THE NOTES. PROVIDE THE RACK WITH LEVELLING FEET WITHOUT ANY CASTERS. KEY THE RACK TO THE SCHOOLS EXISTING CL003 RACK KEYING SYSTEM.	BLACK	REDBACK A5.8042D	T1
COMMUNICATIONS RACK CR-S		EXISTING COMMUNICATIONS RACK TO BE REMOVED.			T1
COMMUNICATIONS RACK CR-N		EXISTING COMMUNICATIONS RACK TO REMAIN AS IS.			T1
COMMUNICATIONS RACK CR-E		EXISTING COMMUNICATIONS RACK TO REMAIN AS IS.			T1
COMMUNICATIONS RACK CR-D		EXISTING COMMUNICATIONS RACK TO REMAIN AS IS.			T1
COMMUNICATIONS RACK CR-G		EXISTING COMMUNICATIONS RACK TO REMAIN AS IS.			T1
AV RACK		FREE STANDING 42 RU MINIMUM 800 DEEP RACK TO BE USED BY THE AV CONTRACTOR. PROVIDE THE RACK WITH LEVELLING FEET WITHOUT ANY CASTERS. KEY THE RACK TO THE SCHOOLS EXISTING CL003 RACK KEYING SYSTEM.	BLACK	REDBACK A5.8042D	T1



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ELECTRICAL EQUIPMENT SCHEDULE

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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL 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 U.N.O	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL ICONIC SERIES	T1
PURPLE PLUG		CEILING MOUNTED UNLESS NOTED OTHERWISE RJ45 CAT-6 COMMUNICATIONS PLUG FOR VAPE SENSOR / CCTV CAMERA, CABLED BACK THE CAT 6 PATCH PANEL IN CR-56 VIA PURPLE 4-PAIR CAT-6 UTP CABLE. PROVIDE THE PLUG SUCH THAT IT PROTRUDES OUT 150MM FROM A FLUSH CONDUIT TO ALLOW THE SENSOR / CAMERA TO BE INSTALLED OVER THE CONDUIT WITH THE PLUG DIRECTLY CONNECTED INTO THE CONCEALED REAR OF THE DEVICE.			T2
EXISTING FIBRE TERMINATION PILLAR		EXISTING FIBRE TERMINATION PILLAR TO FACILITATE THE SPLICING OF THE NEW FIBRE CABLE TO CR-56 AS PER THE NOTES			T2
FIBRE CABLE		REFER TO THE NOTES			T2
BATTERY CLOCK		BATTERY POWERED WALL CLOCK MOUNTED AT 2400mm AFFL C/W THREE-COLOUR SCREEN PRINTED SCHOOL LOGO. THE CONTRACTOR AGREES TO A CREDIT VARIATION OF \$500.00 FOR ANY CLOCK SUPPLIED WITH THE QUEENSLAND GOVERNMENT LOGO	WHITE	ADINA 3039	T1
ACCESS CONTROL 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 EXISTING CARD READERS ARE TO BE REPLACED UNLESS NOTED OTHERWISE. ALL CABLING AND CONDUITS ASSOCIATED WITH THE CARD READER IS TO BE CONCEALED.			T1
ACCESS CONTROL DOOR ELECTRIC STRIKE 1 (ES1)		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 DOOR IS TO BE PROVIDED WITH DOOR STATUS REPORTING (DOOR OPEN / DOOR CLOSED) REED SWITCH. ALL CABLING AND CONDUITS ASSOCIATED WITH THE ELECTRIC STRIKE IS TO BE CONCEALED.			T1
ACCESS CONTROL DOOR ELECTRIC STRIKE 2 (ES2)		PROVIDE THE DOOR WITH ACCESS CONTROL UTILISING A FLUSH MOUNTED ELECTRIC DOOR STRIKE PLATE AND A POWER TRANSFER HINGE. CONNECT THE ELECTRIC STRIKE TO THE ACCESS CONTROL SYSTEM. PROVIDE CONCEALED DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED. EACH ELECTRIC STRIKE DOOR IS TO BE PROVIDED WITH DOOR STATUS REPORTING (DOOR OPEN / DOOR CLOSED) REED SWITCH. ALL CABLING AND CONDUITS ASSOCIATED WITH THE ELECTRIC STRIKE IS TO BE CONCEALED.			T2
ACCESS CONTROL ROLLER SHUTTER DOOR INTERFACE (RSD)		INTERFACE THE ROLLER SHUTTER CONTROLLER TO THE ACCESS CONTROL SYSTEM. PROVIDE CONCEALED DOOR READER MODULES & AUXILIARY POWER SUPPLIES AS REQUIRED. PROVIDE THE ROLLER SHUTTER DOOR WITH STATUS REPORTING (DOOR OPEN / DOOR CLOSED) ROLLER SHUTTER DOOR REED SWITCH. ALL CABLING AND CONDUITS ASSOCIATED WITH THE ROLLER SHUTTER DOOR IS TO BE CONCEALED.			T2



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ACCESS CONTROL LIFT INTERFACE MODULE (LIM)		ACCESS CONTROL SYSTEM LIFT INTERFACE TO ALLOW THE SECURITY SYSTEM TO ENABLE / DISABLE THE CALLING OF THE LIFT VIA THE SCHEDULE OR LOCAL CARD READERS. COORDINATE THE INTERFACE WITH THE LIFT INSTALLER.			T1
SECURITY EQUIPMENT		SECURITY PANEL / EXPANDERS AND ACCESS CONTROL CONTROLLER / POWER SUPPLIES. PROVIDE AN INTERFACE TO THE SECURITY SYSTEM SUCH THAT THE INTERNAL LIGHTS ARE CONTROLLED VIA A DRY CONTACT FROM THE SECURITY SYSTEM SO THE INTERNAL LIGHTS ARE AUTOMATICALLY TURNED OFF / DISABLED WHEN THE SECURITY SYSTEM IS ARMED.			T1
INTRUDER DETECTOR SENSOR		DUAL-TECHNOLOGY MOVEMENT DETECTORS WALL MOUNTED AS PER THE MANUFACTURER'S SPECIFICATION. CONNECT TO THE LOCAL SECURITY EQUIPMENT WITH ONE DETECTOR PER ZONE. PROGRAM THE SECURITY SYSTEM TO THE SATISFACTION OF THE CLUB. SUBMIT DETAILS OF THE DETECTORS INCLUDING THE MOUNTING ARRANGEMENTS FOR APPROVAL PRIOR TO ORDERING.			T1
SECURITY KEY PAD (KP)		LCD KEYPAD MOUNTED AT 1100mm AFFL.	-	INNER RANGE ELITEX STANDARD KEYPAD	T1
SECURITY PIEZO		FLUSH RECESSED SECURITY SYSTEM PIEZO SIREN	WHITE	Hills WP05	T1
PA SYSTEM RECESSED SPEAKER		15W CEILING RECESSED MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER CABLED BACK IN STAR CONFIGURATION TO AN AMPLIFIER WITHIN THE ASSOCIATED COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE UNLESS NOTED AS BLACK (BK)	AUSTRALIAN MONITOR QF8CS	T1
PA SYSTEM SURFACE MOUNTED SPEAKER		5W SURFACE MULTI TAP 100V 8 OHM PUBLIC ADDRESS DUAL CONE SPEAKER CABLED BACK IN STAR CONFIGURATION TO AN AMPLIFIER WITHIN THE ASSOCIATED COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE UNLESS NOTED AS BLACK (BK)	AUSTRALIAN MONITOR ATC5404	T1
PA SYSTEM HORN		30W SURFACE MOUNTED ADJUSTABLE IP66 MULTI TAP 100V 8 OHM PUBLIC ADDRESS HORN SPEAKER CABLED BACK IN STAR CONFIGURATION TO AN AMPLIFIER WITHIN THE ASSOCIATED COMMUNICATIONS RACK VIA 1.5MM MARKED FIG 8 CABLE.	WHITE UNLESS NOTED AS BLACK (BK)	AUSTRALIAN MONITOR SH30	T1



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
PIT A		PROVIDE PIT A AS A 900 X 900 X 900 DEEP MIN INSITU PIT WITH A CLASS B INFILL LID C/W A 150 WIDE X 150 DEEP MIN REINFORCED CONCRETE SURROUND WITH A 10MM FALL AWAY FROM THE PIT LID. POLLY CRETE / FIBRE PITS ARE NOT ACCEPTABLE. ENSURE THE TOP OF THE PIT IS FLUSH WITH THE FINAL SURROUNDING LEVELS. STAMP / TAG THE PIT LID WITH THE WORD "ELECTRICITY" DRAIN THE PITS TO STORM WATER AND PROVIDE THE PIT WITH A WEEP HOLE IN THE BASE INTO A GRAVEL SOAKAGE PIT. PROVIDE DETAILS OF THE PIT AND LID FOR APPROVAL PRIOR TO ORDERING. PROVIDE PHOTOS OF THE COMPLETED PITS INSTALLATION SHOWING ALL CONDUITS AND CABLING. MARK UP THE PHOTOS WITH THE SIZE AND DESTINATION OF EACH CONDUIT.			T1
FIRE INDICATOR PANEL (FIP)		SURFACE MOUNTED WHITE AS 1670 COMPLAINT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE THE FIP IS TO BE THE SAME BRAND AS THAT USED IN THE EXISTING CENTENARY BUILDING. NETWORK THE NEW FIP INTO THE SCHOOLS EXISTING BRIGADE MONITORED FIRE ALARM SYSTEM VIA A FOUR CORE FIBRE CABLE RUN TO THE CR-56 FOBOT.			T1
FIRE INDICATOR PANEL E (FIP-E)		EXISTING FIRE INDICATOR PANEL TO BE REMOVED.			T1
FIRE INDICATOR PANEL 1 (FIP1)		EXISTING FIRE INDICATOR PANEL TO REMAIN AS IS.			T1
FIRE INDICATOR PANEL 2 (FIP2)		EXISTING FIRE INDICATOR PANEL TO REMAIN AS IS.			T1
FIRE INDICATOR PANEL 3 (FIP3)		EXISTING FIRE INDICATOR PANEL TO REMAIN AS IS.			T1
FIRE DETECTION SYSTEM DOOR INTERFACE		INTERFACE THE FIRE DETECTION SYSTEM TO THE DOOR CONTROL SYSTEM SUCH THAT THE DOOR IS UNLOCKED VIA A FAIL SAFE SIGNAL UPON ALARM.			T1
MANUAL CALL POINT		ADDRESSABLE MANUAL CALL POINT MOUNTED ON THE FIP IN ACCORDANCE WITH AS1670.1 -2018.			T1
SMOKE DETECTOR		SURFACE MOUNTED AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. WHITE UNLESS NOTED AS BLACK (BK)			T2
CONCEALED SPACE SMOKE DETECTOR		CONCEALED SPACE ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %. PROVIDE THE DETECTOR WITH A WHITE REMOTE INDICATOR AND ACCESS BRACKET AS REQUIRED.			T1
ASPIRATING SMOKE DETECTOR		ADDRESSABLE ASPIRATING SMOKE DETECTOR AS7240 LOCATED IN AN ACCESSIBLE POSITION IN THE CEILING SPACE TO PROTECT THE LIFT SHAFT IN ACCORDANCE WITH AS1670.1 -2018.			T1
THERMAL DETECTOR		SURFACE MOUNTED AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR. WHITE UNLESS NOTED AS BLACK (BK)			T1
FIRE ALARM VISUAL ALARM DEVICE		WALL MOUNTED FIRE ALARM VISUAL ALARM STROBE LIGHT AS PER AS1670.1			T1
FIRE EVACUATION HORN		SURFACE MOUNTED TWO-TONE 30W ALERT AND EVACUATION HORN SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER. MOUNT AT HIGH LEVEL.			T2

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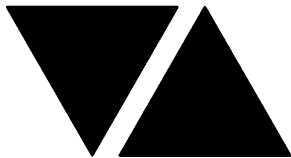
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FIRE EVACUATION RECESSED SPEAKER		RECESSED 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND FLUSH GRILLE PAINTED OUT TO MATCH THE CEILING.			T2
FIRE EVACUATION SURFACE SPEAKER		SURFACE MOUNT 5W TWO-TONE 8-INCH CONE ALERT AND EVACUATION SPEAKER TO AS1670.1 C/W 100V MULTI-TAP TRANSFORMER AND GRILLE PAINTED OUT TO MATCH THE CEILING.			T2
PV SYSTEM INVERTER (INV)		PROVIDE A SUNGROW SC110CX-P2 INVERTER. PROVIDE THE INVERTER WITH INTERNET ACCESS VIA THE SCHOOLS IT NETWORK.			T1
PV SOLAR PANELS		PROVIDE THE PV PANELS AS VERTEX S TSM-NEG18R.28 (485-510W)			T1
FLOOR BOX 1 (FB1)		FLUSH RECESSED FLOOR BOX C/W INLAY LID TWO DOUBLE GPOS TWO COMMUNICATIONS OUTLETS AND A BLANK FACEPLATE. PROVIDE A 32 DIA COMMUNICATIONS CONDUIT FROM THE BLANK FACE PLATE SIDE CONCEALED TO THE ACCESSIBLE CEILING SPACE ABOVE THE AV RACK C/W DRAW WIRES. NOTE THE CONDUIT POSITIONS ON THE AS CONSTRUCTED DRAWINGS	GREY	ECD FB4P	T1
BACKBOARD ACCESS POINT 1 (B1)		TAKE POSSESSION OF THE BACKBOARD CONNECTORS PROVIDED WITH BACKBOARDS AND CONNECT THEM AT THE B1 POSITIONS TO THE B2 CONTROLLERS VIA A CONCEALED CIRCULAR 3C + E 2.5 CABLES. PROVIDE ALL ACCESSORIES NECESSARY TO COMPLETE THE CONNECTIONS AND INSTALLATION.			T1
BACKBOARD ACCESS POINT 2 (B2)		TAKE POSSESSION OF THE BACKBOARD LOCKABLE CONTROLLERS (B2) AND CONNECT EACH TO A DEDICATED CIRCUIT AND A BACKBOARD CONNECTOR AT A B1 POSITION. PROVIDE ALL ACCESSORIES NECESSARY TO COMPLETE THE CONNECTION AND INSTALLATION. MOUNT THE B2 CONTROLLERS AT 1000MM AFFL.			T1
ELECTRIC VEHICLE CHARGING ISOLATION SWITCH (CIS)		ELECTRIC VEHICLE CHARGING ISOLATION SWITCH PUSH BUTTON TO CONTROL THE DB-B - P 26 EV CHARGER SUPPLY CIRCUIT BREAKER VIA A SHUNT TRIP TO ISOLATE THE POWER TO THE ELECTRIC VEHICLE CHARGER. MOUNTED AT 1800mm AFFL WITHIN THE FIP CUPBOARD. PROVIDE COLOURED ENGRAVED TEXT AS PER THE CIS ELEVATION.	WHITE	CLIPSAL ICONIC SERIES	T1



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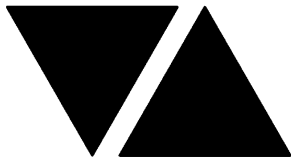
DISTRIBUTION BOARD DB-B

REVISION T2 - 07 OCTOBER 2026

							REV
FAULT CURRENT: 6kA UTILISING CASCADING MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH							T1
CHASSIS SIZE: 84 POLE POWER 36 POLE LIGHTING SUPPLIED FROM: MSB							T1
CHASSIS RATING: 250A SUPPLY CABLE: 1C 95							T1
PHASES: 3							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	CANTEEN	POS	T1
P2	1	20	RCBO	2.5	CANTEEN	RSD	T1
P3	3	20	RCBO	2.5	CANTEEN	11KW OVEN	T1
P4	1	20	RCBO	2.5	CANTEEN	HOT BOX	T1
P5	1	20	RCBO	2.5	CANTEEN	BENCH GPOS	T1
P6	1	20	RCBO	2.5	CANTEEN	BENCH GPOS	T1
P7	1	20	RCBO	2.5	CANTEEN	MW	T1
P8	1	20	RCBO	2.5	CANTEEN	TOASTER	T1
P9	1	20	RCBO	2.5	CANTEEN	TOASTER	T1
P10	1	20	RCBO	2.5	CANTEEN	FREEZER	T1
P11	1	20	RCBO	2.5	CANTEEN	DW	T1
P12	1	20	RCBO	2.5	CANTEEN	BENCH GPOS	T1
P13	1	20	RCBO	2.5	CANTEEN	BENCH GPOS	T1
P14	1	20	RCBO	2.5	CANTEEN	REF	T1
P15	1	20	RCBO	2.5	CANTEEN	COUNTER GPOS	T1
P16	1	20	RCBO	2.5	CANTEEN	REF	T1
P17	1	20	RCBO	2.5	CANTEEN	REF	T1
P18	1	20	RCBO	2.5	CANTEEN	COUNTER GPOS	T1
P19	1	20	RCBO	2.5	CANTEEN	COUNTER GPOS	T1
P20	1	20	RCBO	2.5	CANTEEN	HOT DISPLAY	T1
P21	1	20	RCBO	2.5	CANTEEN	COLD DISPLAY	T1
P22	1	20	RCBO	2.5	CANTEEN	REF	T1
P23	1	20	RCBO	2.5	CANTEEN	DIGITAL SIGNS	T1
P24	1	20	RCBO	2.5	AMENITY	GPO	T1
P25	1	20	RCBO	2.5		MAINTENANCE	T1
P26	1	20	RCBO CIS	2.5		EV CHARGER	T1
P27	3	20	RCBO	2.5		RSD	T1
P28	1	20	RCBO	2.5	STORE	GPO	T1
P29	1	20	RCBO	2.5	AMENITY	GPO	T1
P30	1	20	RCBO	2.5	AMENITY	GPO	T1
P31	1	20	RCBO	2.5		MAINTENANCE	T1
P32	1	20	RCBO	2.5	COURT	GPO	T1
P33	1	20	RCBO	2.5	COURT	GPO	T1
P34	1	20	RCBO	2.5	COURT	GPO	T1
P35	1	20	RCBO	2.5	COURT	GPO	T1
P36	3	20	RCBO	2.5	COURT	BACKBOARD	T1
P37	3	20	RCBO	2.5	COURT	BACKBOARD	T1
P38	3	20	RCBO	2.5	COURT	BACKBOARD	T1
P39	3	20	RCBO	2.5	COURT	BACKBOARD	T1
P40	1	20	RCBO	2.5		BBQ	T1
P41	1	20	RCBO	2.5		BBQ	T1
P42	1	20	RCBO	2.5		BBQ	T1

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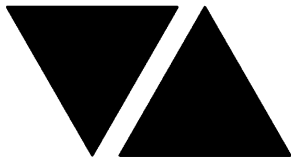
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DISTRIBUTION BOARD DB-B

REVISION T2 - 07 OCTOBER 2026

							REV
FAULT CURRENT: 6kA UTILISING CASCADING CHASSIS SIZE: 84 POLE POWER 36 POLE LIGHTING CHASSIS RATING: 250A PHASES: 3							T1
MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH SUPPLIED FROM: MSB SUPPLY CABLE: 1C 95							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P43							T2
P44	1	20	RCBO	2.5	AMENITY	3.6KW HWS	T1
P45	3	20	RCBO	2.5	CANTEEN	3 X 3.6KW HWS	T1
P46	1	20	RCBO	2.5	AMENITY	HD	T1
L1	1	20	RCBO	2.5	PLANT ROOM	LIGHTS	T1
L2	1	20	RCBO	2.5	AMENITY	LIGHTS	T1
L3	1	20	RCBO	2.5	SECURITY	LIGHTS	T1
L4	1	20	RCBO	2.5	AMENITY	LIGHTS	T1
L5	1	20	RCBO	2.5	CANTEEN	LIGHTS	T1
L6	1	20	RCBO	2.5	UNDERCROFT	LIGHTS	T1
L7	1	20	RCBO	2.5	BBQ	LIGHTS	T1
L8	1	20	RCBO	2.5	COURT	LIGHTS	T1
L9	1	20	RCBO	2.5	COURT	LIGHTS	T1
L10	1	20	RCBO	2.5	COURT	LIGHTS	T1
L11	1	20	RCBO	2.5	COURT	LIGHTS	T1
L12	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	PLAYGROUND	LIGHTS	T1
L13	1	20	RCBO PE ON DUSK OFF DAWN	2.5	SECURITY	LIGHTS	T1



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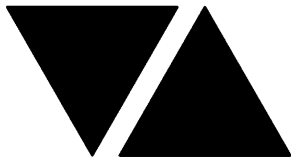
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FAULT CURRENT: 6kA UTILISING CASCADING CHASSIS SIZE: 84 POLE POWER 36 POLE LIGHTING CHASSIS RATING: 250A PHASES: 3							T1
MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH SUPPLIED FROM: MSB SUPPLY CABLE: 1C 95							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER IEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER. PROVIDE DB-G WITH AN UN METERED 100 AMP MCB TO SUPPLY DB-1 VIA A 4C+E 35mm SUBMAIN.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	ENTRY	FIP	T1
P2	1	20	RCBO	2.5	LOTE	LIGHTS	T1
P3	1	20	RCBO	2.5		MAINTENANCE	T1
P4	1	20	RCBO	2.5	LS1, LS2 & LS3	REF	T1
P5	1	20	RCBO	2.5	LS1	GPOS	T1
P6	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P7	1	20	RCBO	2.5	BREAKOUT	AUTO BOILER	T1
P8	1	20	RCBO	2.5	LS2	GPOS	T1
P9	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P10	1	20	RCBO	2.5	LS3	GPOS	T1
P11	1	20	RCBO	2.5	PLAZA 1	GPOS	T1
P12	1	20	RCBO	2.5		CLEANING	T1
P13	1	20	RCBO	2.5	AMENITY	HD	T1
P14	1	20	RCBO	2.5	CATERING	GPOS	T1
P15	1	20	RCBO	2.5	CATERING	GPOS	T1
P16	1	20	RCBO	2.5	CATERING	AUTO BOILER	T1
P17	1	20	RCBO	2.5	FORUM	GPOS	T1
P18	1	20	RCBO	2.5	PLAZA 2	GPOS	T1
P19	1	20	RCBO	2.5	LS 4, LS 5 & LS6	REF	T1
P20	1	20	RCBO	2.5	LS4	GPOS	T1
P21	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P22	1	20	RCBO	2.5	BREAKOUT	AUTO BOILER	T1
P23	1	20	RCBO	2.5	LS 5	GPOS	T1
P24	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P25	1	20	RCBO	2.5	BREAKOUT	AUTO BOILER	T1
P26	1	20	RCBO	2.5	LS 6	GPOS	T1
P27	1	20	RCBO	2.5	AMENITY	3.6KW HWS	T1
P28	1	20	RCBO	2.5		AUTO BOILER	T1
P29	1	20	RCBO	2.5	COMMS ROOM	SECURITY	T1
P30	1	20	RCBO	2.5	COMMS ROOM	AV RACK	T1
P31	1	20	RCBO	2.5	COMMS ROOM	AV RACK	T1
P32	1	20	RCBO	2.5	COMMS ROOM	CR-56	T1
P33	1	20	RCBO	2.5	COMMS ROOM	CR-56	T1



ELECTRICAL DESIGN GROUP

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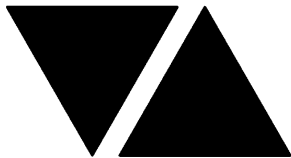
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DISTRIBUTION BOARD DB-G

REVISION T2 - 07 OCTOBER 2026

							REV
FAULT CURRENT: 6kA UTILISING CASCADING MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH CHASSIS SIZE: 84 POLE POWER 36 POLE LIGHTING SUPPLIED FROM: MSB CHASSIS RATING: 250A SUPPLY CABLE: 1C 95 PHASES: 3							T1
							T1
							T1
							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER. PROVIDE DB-G WITH AN UN METERED 100 AMP MCB TO SUPPLY DB-1 VIA A 4C+E 35mm SUBMAIN.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
L1	1	20	RCBO PE ON DUSK OFF DAWN	2.5	SECURITY	LIGHTS	T1
L2	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	BREAKOUT	LIGHTS	T1
L3	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	LOTE	LIGHTS	T1
L4	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTS	T1
L5	1	20	RCBO	2.5	LS1	LIGHTS	T1
L6	1	20	RCBO	2.5	LS2	LIGHTS	T1
L7	1	20	RCBO	2.5	PLAZA 1	LIGHTS	T1
L8	1	20	RCBO	2.5	LS3	LIGHTS	T1
L9	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	COVERED AREA	LIGHTS	T1
L10	1	20	RCBO	2.5	AMENITY	LIGHTS	T1
L11	1	20	RCBO	2.5	LS4	LIGHTS	T1
L12	1	20	RCBO	2.5	PLAZA 2	LIGHTS	T1
L13	1	20	RCBO	2.5	LS 5	LIGHTS	T1
L14	1	20	RCBO	2.5	LS6	LIGHTS	T1
L15	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL SCREEN	LIGHTS	T1
L16	1	20	RCBO PE ON DUSK OFF DAWN	2.5	EXTERNAL ENTRY	LIGHTS	T1



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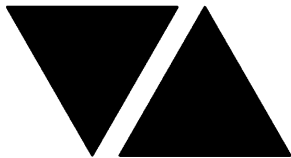
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REVISION T2 - 07 OCTOBER 2026

							REV
FAULT CURRENT: 6kA MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH CHASSIS SIZE: 48 POLE POWER 36 POLE LIGHTING SUPPLIED FROM: DB-G CHASSIS RATING: 250A SUPPLY CABLE: 4C35 PHASES: 3							T1
							T1
							T1
							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS. PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
P1	1	20	RCBO	2.5	LOTE	GPOS	T1
P2	1	20	RCBO	2.5		MAINTENANCE	T1
P3	1	20	RCBO	2.5	LS7 LS8 & LS9	REF	T1
P4	1	20	RCBO	2.5	LS 7	GPOS	T1
P5	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P6	1	20	RCBO	2.5	BREAKOUT	AUTOBOILER	T1
P7	1	20	RCBO	2.5	LS 8	GPOS	T1
P8	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P9	1	20	RCBO	2.5	BREAKOUT	AUTOBOILER	T1
P10	1	20	RCBO	2.5	LS 9	GPOS	T1
P11	1	20	RCBO	2.5	PLAZA 3	GPOS	T1
P12	1	20	RCBO	2.5	FORUM	GPOS	T1
P13	1	40	RCBO	6.0	FORUM	VIDEO WALL	T1
P14	1	40	RCBO	6.0	FORUM	VIDEO WALL	T1
P15	1	20	RCBO	2.5	PLAZA 4	GPOS	T1
P16	1	20	RCBO	2.5	LS10 LS11 & LS12	REF	T1
P17	1	20	RCBO	2.5	LS 10	GPOS	T1
P18	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P19	1	20	RCBO	2.5	BREAKOUT	AUTOBOILER	T1
P20	1	20	RCBO	2.5	LS 11	GPOS	T1
P21	1	20	RCBO	2.5	BREAKOUT	GPOS	T1
P22	1	20	RCBO	2.5	BREAKOUT	AUTOBOILER	T1
P23	1	20	RCBO	2.5	LS 12	GPOS	T1
P24	3	40 C CURVE	RCD TYPE B	10 + 10 EARTH	LEVEL 1	LIFT	T1
P25	1	20	RCBO	2.5	FORUM	CAMERA	T1



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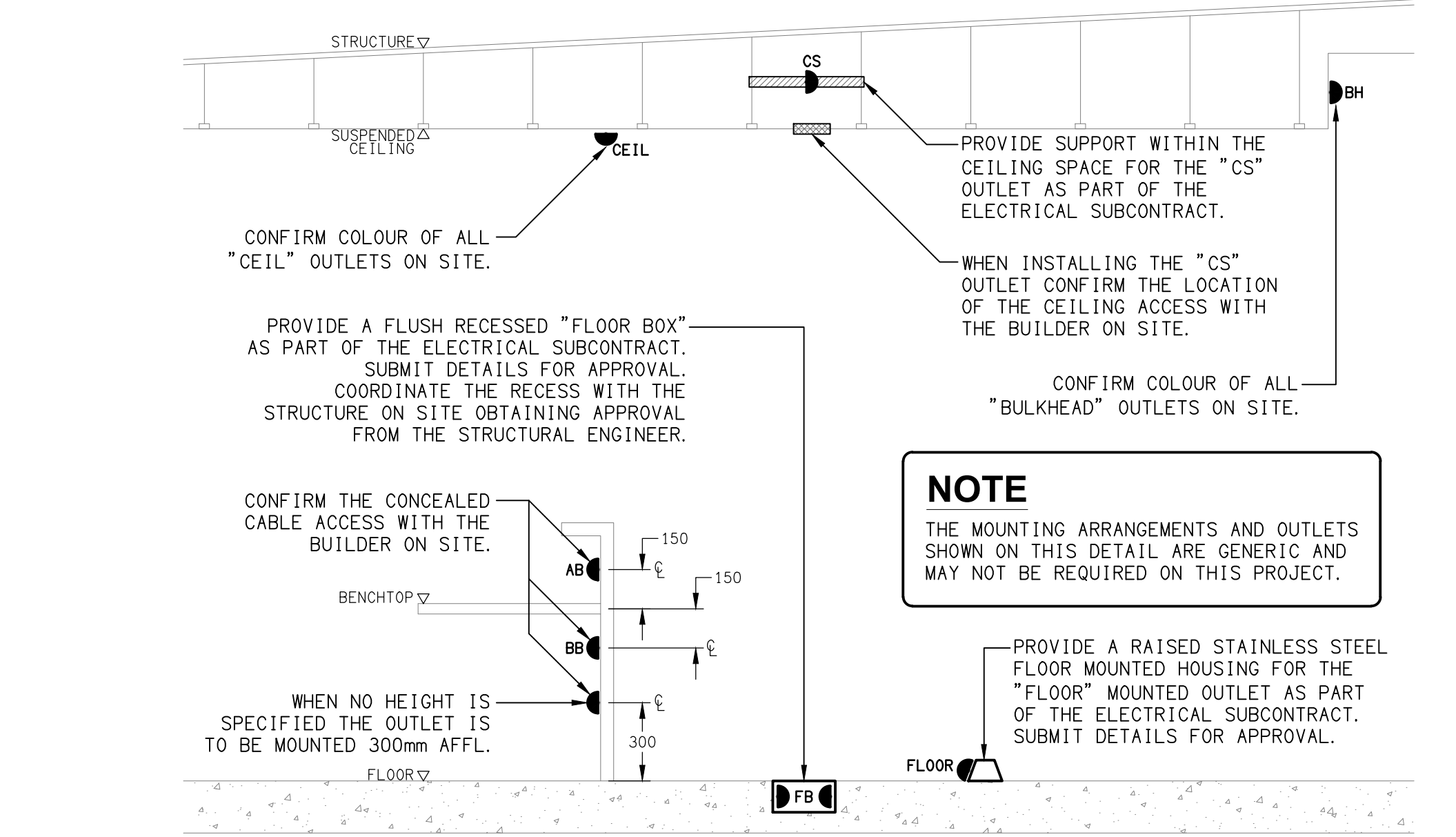
REVISION T2 - 07 OCTOBER 2026

							REV
FAULT CURRENT: 6kA							T1
MAIN SWITCH: 160A NON AUTO LOAD BREAK SWITCH							T1
CHASSIS SIZE: 48 POLE POWER 36 POLE LIGHTING							T1
SUPPLIED FROM: DB-G							T1
CHASSIS RATING: 250A							T1
SUPPLY CABLE: 4C35							T1
PHASES: 3							T1
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE INITIAL CONTROL EQUIPMENT. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE NOTES FOR ADDITIONAL REQUIREMENTS PROVIDE AN ENERGY MONITORING SYSTEM AS PER J9D3 OF THE NCC BCA 2022 UTILISING SCHNEIDER iEM3265 BACnet/MSTP DIN RAIL MOUNTED METERS INTERFACED TO THE BMS WITH THE FOLLOWING SERVICES SEPERATLLY MEETERED / ACCOUNTED FOR, GENERAL POWER, LIGHTING AND HOT WATER.							T2
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm2)	LOCATION	CIRCUIT USE	
L1	1	20	RCBO PE ON DUSK OFF DAWN	2.5	SECURITY	LIGHTS	T1
L2	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	COVERED LINK	LIGHTS	T1
L3	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	BREAKOUT	LIGHTS	T1
L4	1	20	RCBO	2.5	LOTE	LIGHTS	T1
L5	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	VOID	LIGHTS	T1
L6	1	20	RCBO PE ON DUSK OFF DAWN	2.5	SECURITY	LIGHTS	T1
L7	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL SCREEN	LIGHTS	T1
L8	1	20	RCBO	2.5	LS 7	LIGHTS	T1
L9	1	20	RCBO	2.5	LS 8	LIGHTS	T1
L10	1	20	RCBO	2.5	PLAZA 3	LIGHTS	T1
L11	1	20	RCBO	2.5	LS 9	LIGHTS	T1
L12	1	20	RCBO	2.5	FORUM	LIGHTS	T1
L13	1	20	RCBO	2.5	FORUM	LIGHTS	T1
L14	1	20	RCBO	2.5	LS 10	LIGHTS	T1
L15	1	20	RCBO	2.5	PLAZA 4	LIGHTS	T1
L16	1	20	RCBO	2.5	LS 11	LIGHTS	T1
L17	1	20	RCBO	2.5	LS 12	LIGHTS	T1
L18	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	PLAYGROUND	LIGHTS	T1

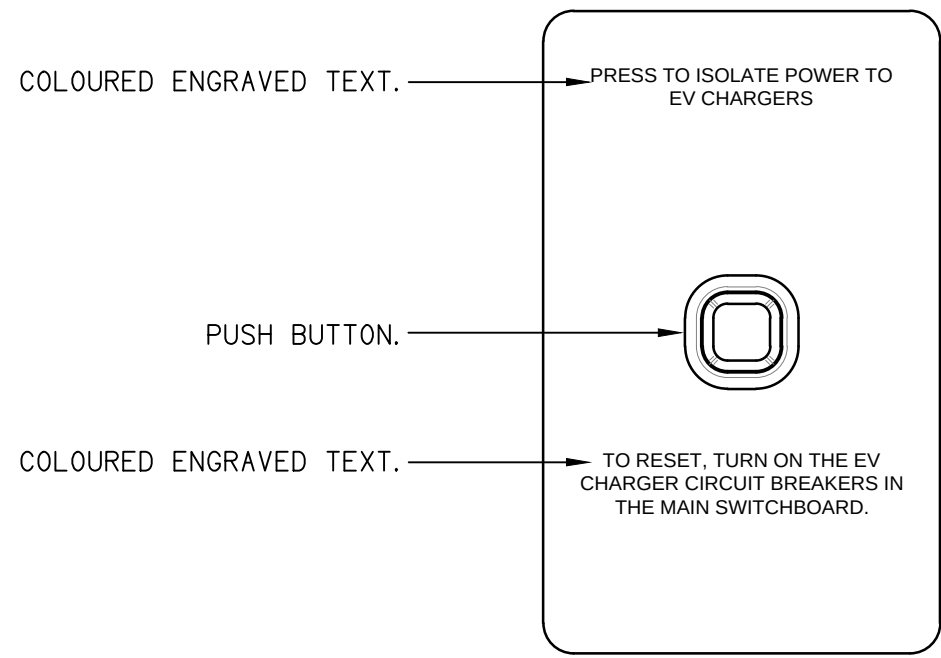
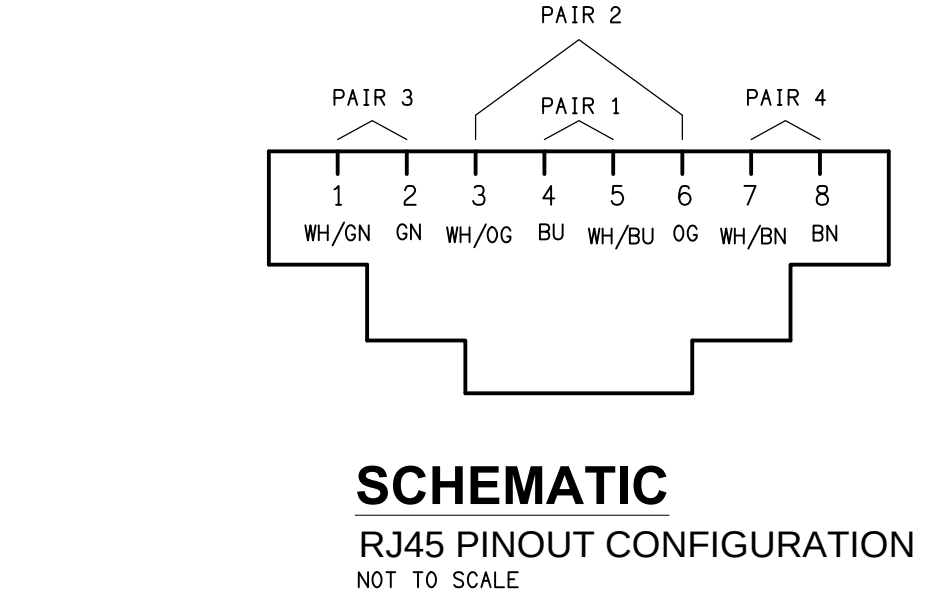
LEGEND	
	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	DOUBLE POWER OUTLET C/W INTEGRAL USB.
	SPECIAL PURPOSE POWER OUTLET.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	JUNCTION BOX / CONNECTION AS NOTED.
	CONDUIT ROUTE. Ex DENOTES ELECTRICAL Cx DENOTES COMMUNICATIONS.
	ELECTRICAL PIT, TYPE AS NOTED.
	ELECTRICAL FLOOR BOX, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	LIGHTING PRESENCE DETECTOR SWITCH.
	LIGHTING CONTROL SWITCH PANEL, TYPE AS NOTED.
	ONE-WAY LIGHT SWITCH.
	TWO-WAY LIGHT SWITCH.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	LIGHTING CONTROL CHANNEL REFERENCE.
	ELECTRICAL EQUIPMENT AS NOTED.
	BACKBOARD MOTOR.
	BACKBOARD CONTROLLER.
	RJ45 COMMUNICATIONS OUTLET.
	PURPLE CAT-6 PLUG CEILING MOUNTED, UNLESS NOTED OTHERWISE.
	ACCESS CONTROL CARD READER.
	ACCESS CONTROL DOOR ELECTRIC STRIKE, TYPE AS NOTED.
	ACCESS CONTROL LIFT INTERFACE MODULE.
	ACCESS CONTROL ROLLER SHUTTER DOOR INTERFACE.
	SECURITY KEY PANEL.
	SECURITY DIRECTIONAL MOTION DETECTOR.
	SECURITY PIEZO SIREN.
	SCHOOL BELL HORN / HOOTER.
	SCHOOL BELL MULTI-TAP CONE RECESSED SPEAKER.
	SCHOOL BELL MULTI-TAP CONE SURFACE SPEAKER.
	SCHOOL WALL CLOCK.

LEGEND	
	FIRE ALARM STROBE.
	FIRE EVACUATION RECESSED SPEAKER.
	FIRE EVACUATION SURFACE SPEAKER.
	FIRE INDICATOR PANEL.
	FIRE DOOR INTERFACE.
	THERMAL DETECTOR.
	MANUAL CALL POINT.
	SMOKE DETECTOR.
	CONCEALLED SPACE SMOKE DETECTOR.
	ASPIRATING SMOKE DETECTOR.
	FUSE.
	SINGLE PHASE.
	THREE PHASE.
	CURRENT TRANSFORMER C/W REMOVABLE LINK.
	FUSE LINK.
	COMBINED FUSE SWITCH.
	CIRCUIT BREAKER.
	ISOLATOR.
	RESIDUAL CURRENT DEVICE.
	CONTACTOR – NORMALLY OPEN.
	CONTACTOR – NORMALLY CLOSED.
	DALI POWER SUPPLY UNIT.
	MANUAL DALI DIAL.
	CONTRACTOR TYPE X SPECIFIC TO THE ASSOCIATED SCHEMATIC.
	PE CELL SWITCH.
	TIME CLOCK SWITCH.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	E1: RECESSED NON-MAINTAINED LED EMERGENCY LIGHT, WHITE.
	E2: RECESSED NON-MAINTAINED LED EMERGENCY LIGHT, BLACK.
	E3: SURFACE NON-MAINTAINED LED EMERGENCY LIGHT, WHITE.
	EX: EMERGENCY LED EXIT LIGHT, WHITE.
	EX BK: EMERGENCY LED EXIT LIGHT, BLACK.
	EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT, WHITE.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: 600 x 600 T-BAR MOUNTED FLAT PANEL.
	L2: 600 x 600 PLASTERBOARD MOUNTED FLAT PANEL.
	L3: OVERHEAD CUPBOARD LED STRIP LIGHT.

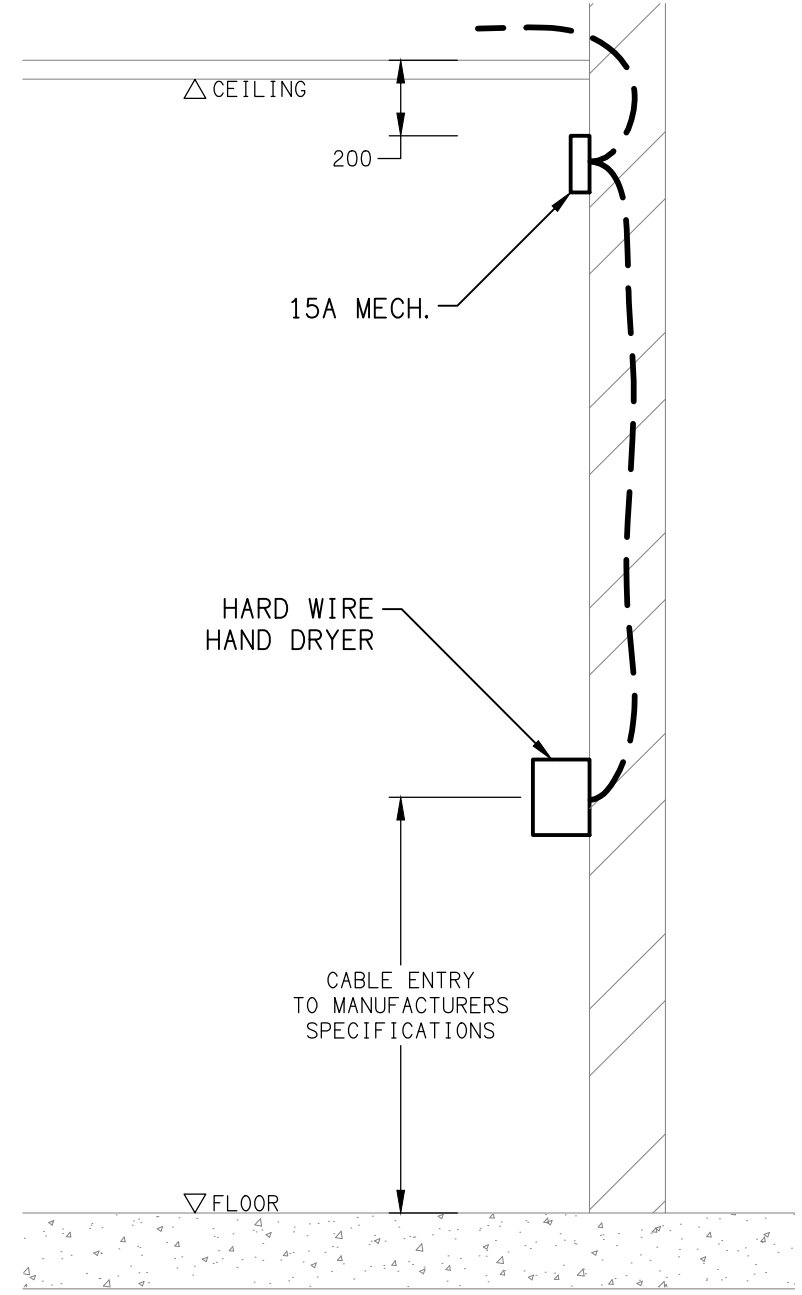
LEGEND	
	L4: CIRCULATION RECESSED DOWNLIGHT, WHITE.
	L5: BREAKOUT RECESSED DOWNLIGHT, WHITE.
	L6: AMENITY RECESSED DOWNLIGHT, WHITE.
	L7: BREAKOUT RECESSED DOWNLIGHT, BLACK.
	L8: RECESSED DALI DIMMABLE DOWNLIGHT, BLACK.
	L9: FORUM RECESSED DALI DIMMABLE DOWNLIGHT, WHITE.
	L10: FORUM PELMET DALI DIMMABLE LED STRIP LIGHT.
	L11: BALCONY MEDIUM RECESSED DOWNLIGHT, WHITE.
	L12: BALCONY LARGE RECESSED DOWNLIGHT, WHITE.
	L13: SURFACE MOUNTED BUNKER LIGHT, WHITE.
	L14: EXTERNAL SCREEN LED STRIP LIGHT.
	L15: 1200 LONG BATTEN C/W INTEGRAL SENSOR.
	L16: 1200 x 300 PLASTERBOARD FLAT PANEL.
	L17: 1200 LONG BATTEN, UNSWITCHED C/W NON-MAINTAINED AS2293 EMERGENCY PACK.
	L18: SURFACE MOUNTED WHITE BUNKER LIGHT.
	L19: 120W HIGH BAY LIGHT.
	L20: STAIR TREAD LED STRIP LIGHT.
	L21: EXTERNAL SCREEN RECESSED DOWNLIGHT.
	L22: EXTERNAL DALI DIMMABLE SCREEN POLE MOUNTED DUAL FLOOD LIGHTS.
	L23: EXTERNAL DALI DIMMABLE SCREEN POLE MOUNTED FLOOD LIGHT.
	L24: EXTERNAL ENTRY POLE MOUNTED AREA LIGHT.
	L25: TIERED DALI DIMMABLE SEATING FLOOD LIGHT.
	L26: PLAYGROUND DALI DIMMABLE FLOOD LIGHT.
	L27: WALL MOUNTED SECURITY AREA LIGHT.
	L28: BUILDING MOUNTED SECURITY AREA LIGHT.
	L29: SURFACE MOUNTED DALI DIMMABLE BUNKER LIGHT, WHITE.



DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE



NOTE
ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.



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.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- ELECTRONIC SECURITY.
- INTRUDER DETECTION.
- PA SYSTEM.
- FIRE ALARM.

MODIFICATION, RELOCATION AND EXTENSION AS NECESSARY OF ALL EXISTING SERVICES THAT ARE IMPACTED BY THE WORKS OR REQUIRED TO BE EXTENDED BY THE WORKS.

- REMOVAL OF ALL EXISTING SERVICES MADE REDUNDANT BY THE WORKS.
- DOCUMENTS
- ANY TEMPORARY WORKS REQUIRED TO KEEP THE HOTEL OPERATING DURING THE CONSTRUCTION PROCESS AND ACCOMMODATE STAGING OF THE WORKS TO REFLECT THE EXECUTION OF THE MAIN CONTRACT WORKS.
- 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 OF ALL WORKS THAT HAVE AN EFFECT ON OR WILL BE AFFECTED BY THE ELECTRICAL SERVICES.

REFER TO THE EQUIPMENT SCHEDULE FOR ADDITIONAL REQUIREMENTS.

2. WORKMANSHIP

ENSURE THAT THE ELECTRICAL WORK IS PERFORMED BY THE HOLDER OF A CURRENT ELECTRICAL SUB CONTRACTOR LICENSE AND THE SERVICES COVERED BY THE ACMA IS PERFORMED BY THE HOLDER OF THE APPROPRIATE CURRENT ACMA 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-ORDINATED 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.

MODIFICATION, RELOCATION AND EXTENSION AS NECESSARY OF ALL EXISTING SERVICES THAT ARE IMPACTED BY THE WORKS OR REQUIRED TO BE EXTENDED BY THE WORKS.

PROVIDE ALL TEMPORARY WORKS REQUIRED TO KEEP THE VENUE AND ALL CONSTRUCTION STAGES OPERATING INCLUDING STAGED COMMISSIONING DURING THE CONSTRUCTION PROCESS.

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.

CORRUGATED CONDUITS MUST NOT BE USED WITHIN ANY FOOD OR DRINK PREPARATION OR SERVERY AREAS.

CABLE JOINS ARE NOT ACCEPTABLE. ALL CABLING, WIRING, CONDUCTORS AND CONDUITS MUST BE CONCEALED. ALL EXISTING ELECTRICAL SERVICES INCLUDING CABLING AND SWITCHGEAR THAT IS FOUND TO BE REDUNDANT OR MADE REDUNDANT BY THE WORKS MUST BE REMOVED.

IT IS ACCEPTABLE TO USE EXISTING SWITCHGEAR, OUTLETS AND CABLING IF THEY ARE APPROPRIATELY RATED AND THE ELECTRICIAN ACCEPTS RESPONSIBILITY OVER THE SWITCHGEAR / OUTLETS / CABLE AND PROVIDES A WARRANTY OVER IT AS IF IT WAS INSTALLED NEW BY THE ELECTRICIAN.

3. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE ELECTRICAL SERVICES DOCUMENTS OR IN INSTRUCTIONS. IT IS THE ELECTRICAL SUB CONTRACTORS 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.
- AS1670.1.
- QUEENSLAND FIRE DEPARTMENT.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

NOTES

4. 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.

5. POWER DISTRIBUTION

UTILISE THE EXISTING PRIMARY SCHOOL MAIN SWITCHBOARD MSB-P (WHICH DOES NOT NEED TO COMPLY WITH AS/NZS 61439) TO PROVIDE NEW UNDERGROUND SUBMAINS TO THE NEW SWITCHBOARDS MDB-A, DB-B AND DB-G. THE NEW SWITCHBOARD DB-1 IS SUPPLIED FROM DB-G. THE MDB-A IS TO SUPPLY THE NEW MSBP AND SOLAR INVERTER.

PROVIDE NEW UNDERGROUND CONDUITS FROM THE EXISTING PIT AND CONDUIT SYSTEM TO ACCOMMODATE THE NEW SUBMAINS. PROVIDE A FLUSH HOUSING AROUND THE CABLES RISING UP THE COVERED AREA STRUCTURE.

ALL OF THE EXISTING CIRCUITS, CABLING AND OUTLETS THAT BECOME REDUNDANT ARE TO BE REMOVED.

THE POWER SUPPLY TO THE REMAINDER OF THE SCHOOL MUST BE MAINTAINED AT ALL TIMES THE SCHOOL IS OPEN INCLUDING THE AFTER HOURS CARE. ANY INTERRUPTION TO THE POWER SUPPLY MUST BE ADVISED TO THE SCHOOL IN WRITING TWO WEEKS PRIOR.

PROVIDE ENERGY MONITORING AS PER J903 OF THE NCC BCA 2022 UTILISING DIN RAIL MOUNTED SCHNEIDER IEM3265 BACnet/MSTP METERS CONNECTED TO THE SCHOOLS BMS.

ALL CIRCUIT BREAKERS AND CIRCUIT SCHEDULES MUST BE LABELLED / CONTAIN THE SUBMAIN / CIRCUIT USE AND LOCATION SUCH THAT THE CONNECTION / OUTLET CAN BE SIMPLY IDENTIFIED.

OUTLETS ARE TO BE PROVIDED WITH A NEAT HAND WRITTEN CIRCUIT DESIGNATION BY INDELIBLE INK ON THE FACEPLATE SUCH THAT IT IS NOT VISIBLE WHEN THE COVER IS CONCEALED.

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

- POWER DISTRIBUTION.
- DISTRIBUTION BOARDS.
- CABLE ACCESS WAYS.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- REMOVAL OF ALL EXISTING REDUNDANT SERVICES.
- RECONNECTION OF ALL EXISTING SERVICES THAT REMAIN.
- PROVIDE AN INFRARED SCAN OF THE MSB AND ALL DISTRIBUTION BOARDS PROVIDED AS PART OF THE WORKS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A LOGGING CHART RECORDING OF THE MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN AND CHART RECORDING AND FOR APPROVAL.

REFER TO THE POWER SCHEMATIC AND DISTRIBUTION BOARD SCHEDULES FOR ADDITIONAL REQUIREMENTS AND CIRCUIT DETAILS.

PROVIDE DISTRIBUTION BOARDS MDB-A, DB-B, DB-G AND DB-1 AS FOLLOWS:

- WALL MOUNTED.
- EACH CUBICAL IS TO HAVE A MINIMUM WIDTH OF 600MM.
- IP44 FORM 1.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT 92268 KEY LOCKABLE HANDLES ON ALL DOORS.
- LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
- 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
- ALL SWITCHGEAR TO BE NHP / TERASAKI.
- PROVIDE SHOP DRAWINGS INCLUDING THE LIGHTING CONTROLS FOR APPROVAL.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
- PROVIDED WITH A LABEL CONTAINING: SOURCE NAME, SOURCE OVERLOAD RATING IN AMPS, SUBMAIN CABLE TYPE, SIZE, CONFIGURATION AND LENGTH.
- EACH CIRCUIT CONTROLLED VIA A TIME CLOCK AND OR PE CELL IS TO BE PROVIDED WITH AN ON/OFF/AUTO SELECTOR SWITCH ON THE ASSOCIATED DISTRIBUTION BOARDS ESCUTCHEON. ENSURE ALL THREE PHASE CIRCUITS ARE PROVIDED WITH CORRECT PHASE ROTATION.

ENSURE ALL OUTLETS AND ISOLATORS ARE POSITIONED SUCH THAT THEY ARE NOT COVERED BY THE EQUIPMENT. THE FINAL POSITION OF ALL OUTLETS AND ISOLATORS ARE TO BE CONFIRMED ON SITE BY THE TENANTS REPRESENTATIVE.

6. SOLAR PV SYSTEM

PROVIDE A 100KW SOLAR PV INSTALLATION AS FOLLOWS:

- UNDERTAKEN BY AN INSTALLER WITH SOLAR ACCREDITATION AUSTRALIA (SAA) DESIGN AND INSTALLATION ACCREDITATION.
- ENERGEX APPROVALS, FEES AND CHARGES.
- RPEQ ENGINEERING AND DESIGN.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE SOLAR SYSTEM INSTALLATION.
- ALL CABLING MUST BE COPPER.
- PROVIDE A ALUMINIUM OR HOT DIPPED GALVANIZED PV PANEL SUPPORT SYSTEM.
- PROVIDE THE SOLAR SYSTEM DC AND AC CABLING THAT HAS A LESS THAN COMBINED LOSS LESS THAN 3%.
- PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF THE SOLAR SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUTS FOR APPROVAL.
- PROVIDE A HARD COPY OF THE ENTIRE SYSTEM DESIGN AND ALL INFORMATION ASSOCIATED WITH THE SOLAR SYSTEM IN A PERMANENT DOCUMENT HOLDER ADJACENT THE INVERTER.
- SIGNAGE AND LABELS.
- AC AND DC CABLING.
- AC AND DC ISOLATORS.
- PROVIDE THE INVERTER WITH GRID PROTECTION INCLUDING ALL NECESSARY WORKS TO THE MSB.

7. LIGHTING

ALL OF THE LIGHT FITTINGS, LAMPS 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.
- LAMPS.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- EMERGENCY AND EXIT LIGHTING.
- TESTING AND COMMISSIONING.

PROVIDE THE FORUM WITH A PROGRAMMABLE ZEN CONTROL LIGHTING CONTROL SYSTEM CONFIGURED AS DIRECTED BY THE SCHOOL AT PRACTICAL COMPLETION. ALLOW TO RECONFIGURE THE FORUM ZEN CONTROL LIGHTING CONTROL SYSTEM TWICE MORE DURING THE DEFECT AND LIABILITY PERIOD. ALL OF THE DALI LIGHTING CONTROL OUTSIDE OF THE FORUM IS TO BE VIA MANUAL DALI KNOBS.

NOTES

8. EMERGENCY AND EXIT LIGHTING

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.

9. COMMUNICATIONS

QUEENSLAND DATA N ELECTRICAL SERVICES (07) 3889 7733 RORY CROSS 0411 704 385 rory@liddato.com.au IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB-CONTRACTOR TO INSTALL THE COMMUNICATIONS CABLING. ALL OF THE EXISTING COMMUNICATION CABLES THAT BECOME REDUNDANT ARE TO BE REMOVED. A NEW 12 CORE MULTIMODE FIBRE IS TO BE SPLICED INTO THE EXISTING MULTI MODE CABLE FROM THE REDUNDANT PREP SCHOOL RACK AT THE EXISTING FIBRE TERMINATION PILLAR AND EXTENDED TO CR-56. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- REMOVAL OF EXISTING REDUNDANT CABLING.
- COMMUNICATIONS OUTLETS.
- COMMUNICATIONS PLUGS FOR CCTV CAMERAS AND VAPE SENSORS CABLED VIA PURPLE CAT6 CABLE.
- COMMUNICATIONS RACK CR-56.
- AV RACK.
- FIBOTS WITHIN CR-56.
- PATCH PANELS WITHIN CR-56 AS REQUIRED.
- 12 CORE OS2 UNDERGROUND FIBRE CABLE FULLY TERMINATED WITH LC CONNECTORS LINKING THE FIBRE TERMINATION PILLAR TO CR-56.
- 4 CORE FIBRE CABLE FULLY TERMINATED WITH LC CONNECTORS LINKING THE NEW FIP TO CR-56.
- TESTING AND COMMISSIONING.

10. 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 SYSTEM AS AN EXPANSION OF THE SCHOOLS EXISTING SECURITY SERVICES.

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

- ACCESS CONTROL.
- EXPANDER PANELS.
- INTRUDER DETECTORS.
- PIEZO SIRENS.
- ARMING / DISARMING KEY PANEL.
- FIBRE MODEMS.
- CARD READERS.
- ELECTRIC STRIKES.
- CONCEALED DOOR CONTROLLERS.
- INTERFACE THE ACCESS CONTROL SYSTEM TO THE FIP TO UNLOCK THE NOMINATED DOORS UPON ALARM.
- INTERFACE THE ACCESS CONTROL SYSTEM TO THE LIFT TO ALLOW IT TO BE CALLED VIA AN AUTHORISED CARD.
- INTERFACE THE INTRUDER DETECTION SYSTEM TO THE LIGHTING SUCH THAT ALL INTERNAL LIGHTING IN PROTECTED AREAS IS TURNED OFF WHEN THE SECURITY SYSTEM IS ARMED.
- TESTING AND COMMISSIONING.

11. PA SYSTEM

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 PA SYSTEM.

THE SCHOOLS EXISTING TERACOM TERR-EX IP-AUDIO SYSTEM IS TO BE EXPANDED TO SUPPLY ALL OF THE PA SYSTEM SPEAKERS.

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES MULTI TAP 100V SPEAKERS AND HORNS ATTACHED TO POWER AMPLIFIERS MOUNTED WITH IN THE TOP OF COMMUNICATIONS RACK CR-562. PROVIDE SEPARATE AMPLIFIERS CONFIGURED AS SEPARATE ZONES BEING EXTERNAL, COVERED COURT, BASEMENT INTERNAL, GROUND LEVEL INTERNAL, AND FIRST LEVEL INTERNAL. PRIOR TO PRACTICAL COMPLETION, PROVIDE A TEMPORARY MUSIC SOURCE TO AIM / BALANCE THE SPEAKERS AND HORNS ON SITE AS DIRECTED BY THE SCHOOL.

THE PUBLIC ADDRESS SYSTEM COMPONENT OF THIS CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- SPEAKERS AND HORNS.
- AMPLIFIERS AND IP-AUDIO CONVERTERS LOCATED IN CR-56.
- CO-ORDINATION.
- TESTING, COMMISSIONING AND BALANCING.
- MAINTENANCE.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH OF EACH SPEAKER CABLE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE PUBLIC ADDRESS SYSTEM INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

NOTES

12. FIRE ALARM

FVS SERVICES GROUP, 1300 387 387, MARK WESTON, 0418 129 610, mark@fvs.com.au IS TO BE ENGAGED AS A NOMINATED SUBCONTRACTOR TO THE ELECTRICAL SUB CONTRACTOR TO UNDERTAKE ALL WORKS ASSOCIATED WITH THE PA FIRE ALARM SYSTEM. THE FIRE ALARM COMPONENT OF THIS CONTRACT IS TO INCLUDES AN AS1670.1 COMPLIANT ADDRESSABLE FIRE DETECTION AND ALARM SYSTEM CONNECTED TO THE SCHOOLS EXISTING BRIGADE MONITORED SYSTEM.

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

- FIP INCORPORATING THE FDCIE AND EWICIE.
- MANUAL CALL POINT ON THE FDCIE.
- INTERFACE THE FIP TO THE ACCESS CONTROL SYSTEM TO UNLOCK THE ASSOCIATED DOORS UPON ALARM.
- SPEAKERS.
- ADDRESSABLE SMOKE DETECTORS.
- ADDRESSABLE ASPIRATING SMOKE DETECTOR SYSTEM TO PROTECT THE LIFT SHAFT.
- ADDRESSABLE THERMAL DETECTORS.
- ADDRESSABLE CONCEALED SPACE DETECTORS C/W REMOTE INDICATORS AND REMOTE ACCESS BRACKETS AS REQUIRED.
- CABLING.
- VISUAL INDICATOR.
- SYSTEM DIAGRAM.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH AND EACH COMPONENT ADDRESS.
- PROVISION OF ANY ADDITIONAL SPEAKERS TO ACHIEVE EVACUATION SOUND LEVELS WITH A MINIMUM OF 100dB (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.

THE CONTRACTOR IS RESPONSIBLE FOR PAYING ANY CALL OUT FEES ISSUED BY OFES 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.

13. DOCUMENTATION

WITHIN TWO WEEKS OF PRACTICAL COMPLETION PROVIDE THE FOLLOWING DOCUMENTATION.

AS CONSTRUCTED DRAWINGS INCLUDING:

- ELECTRICIANS NAME AND CONTACT DETAILS.
- PROJECT NAME, ADDRESS AND DATE OF PRACTICAL COMPLETION.
- FITTING POSITIONS AND TYPES CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- OUTLET, SWITCH, AND CONNECTION POSITIONS CROSS REFERENCED TO A FITTING / EQUIPMENT SCHEDULE.
- REMOTE DRIVER LOCATIONS.
- CIRCUITS CROSS REFERENCED TO A DISTRIBUTION BOARD SCHEDULE.
- LIGHTING CONTROL CHANNELS CROSS REFERENCED TO A LIGHTING CONTROL SCHEDULE.
- POWER SCHEMATIC.
- SWITCHBOARD SHOP DRAWINGS.
- CABLE ACCESS ROUTES.

A FITTING / EQUIPMENT SCHEDULE INCLUDING.

- FITTING DETAILS INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.
- OUTLETS AND SWITCHES INCLUDING THE MANUFACTURERS CATALOGUE NUMBERS WITH THE TYPES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

DISTRIBUTION BOARD SCHEDULES CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

LIGHTING CONTROL SCHEDULE CROSS REFERENCED TO THE AS CONSTRUCTED DRAWINGS.

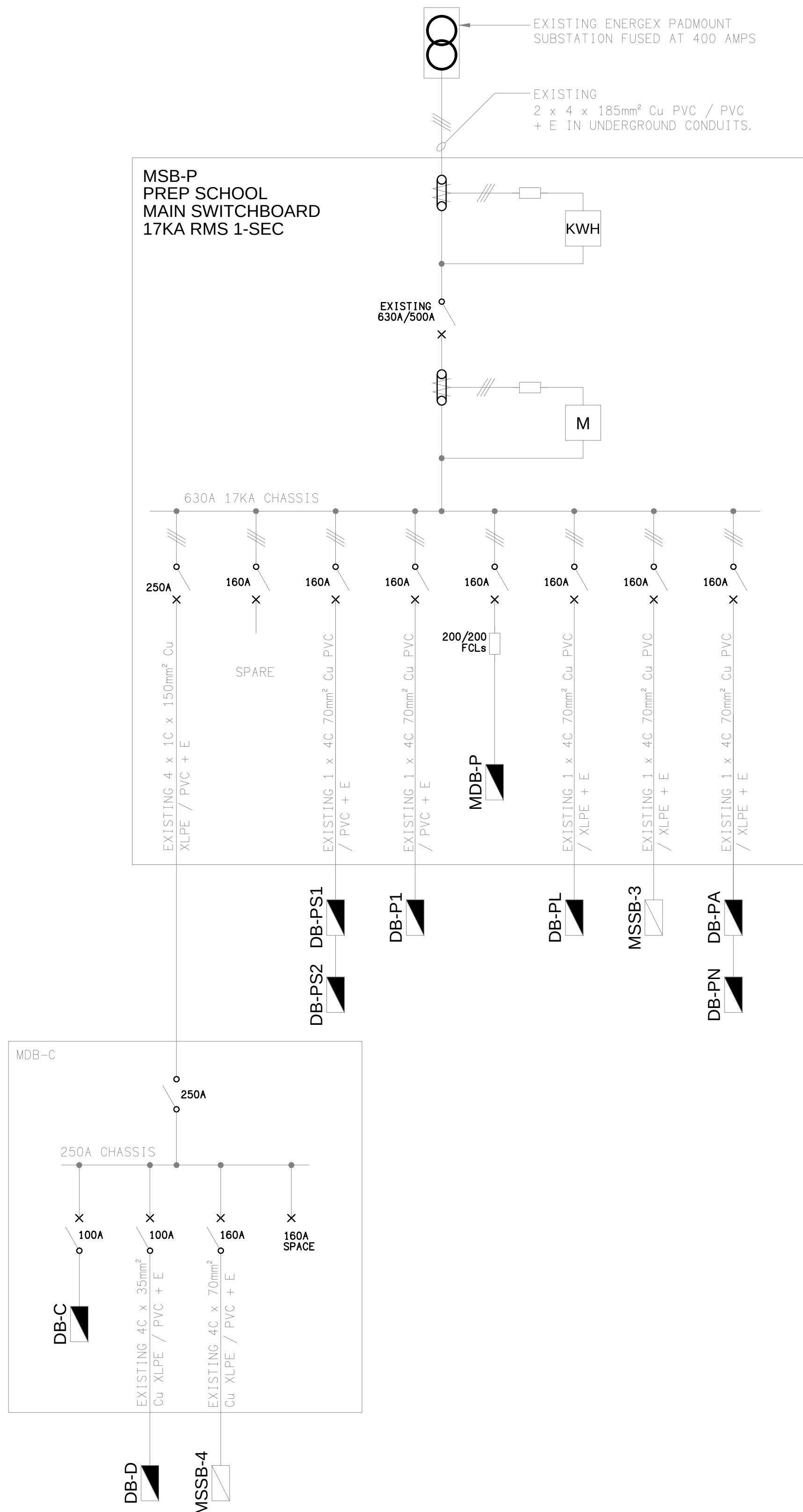
PHOTOS OF EACH SWITCHBOARD INCLUDING:

- CLOSED POSITION SUCH THAT THE SWITCHBOARD DESIGNATION AND CLEARANCE IS VISIBLE.
- THE SUBMAIN LABEL.
- DOOR/S OPEN ESCUTCHEON/S CLOSED SUCH THAT THE SPARE CAPACITY AND LABELLING IS VISIBLE.
- DOOR/S OPEN ESCUTCHEON/S REMOVED SUCH THAT THE SWITCHGEAR AND INTERNAL CABLING IS VISIBLE.

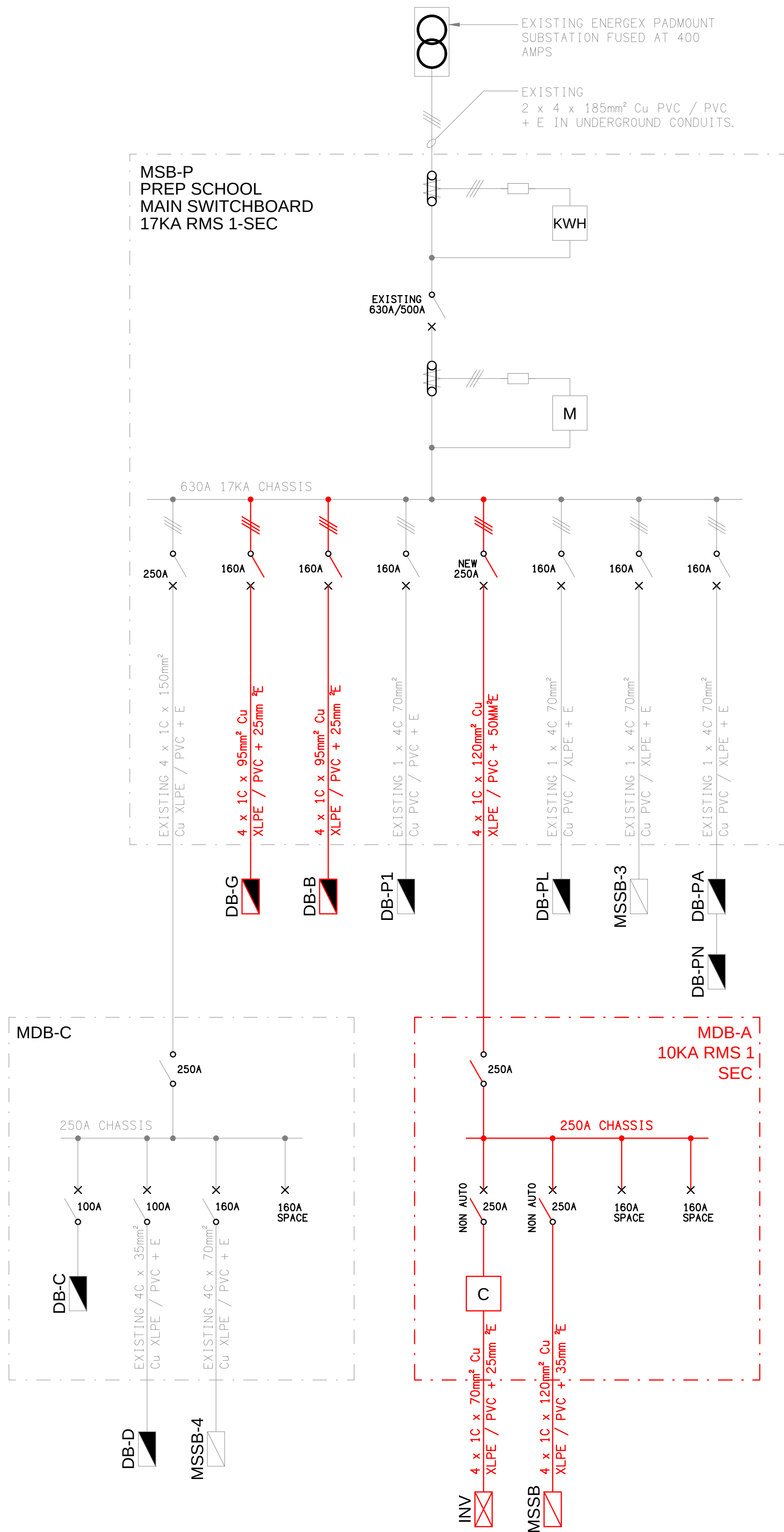
14. ABBREVIATIONS

A - AMP CURRENT RATING
AB - MOUNT ABOVE BENCH.
AD. - AUTO DOOR.
AFFL - ABOVE FINISHED FLOOR LEVEL.
BB - MOUNT BELOW BENCH.
BH - MOUNT ON BULKHEAD.
CEIL - MOUNT ON CEILING.
CS - MOUNT WITHIN CEILING SPACE.
C/W - COMPLETE WITH.
DW - DISHWASHER.
HWS - HOT WATER SYSTEM.
MCB - MINIATURE 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. 3-PHASE RCBO TO BE 4-POLE.
REF - REFRIGERATOR.
RK - RECESS KIT.
SUS - MOUNT SUSPENDED FROM CEILING.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

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				DRAWING NO: E02		REVISION: T2	
				OAKLANDS PARADE, EAST BRISBANE			



EXISTING
MSB-P POWER SCHEMATIC
NOT TO SCALE



PROPOSED
MSB-P POWER SCHEMATIC
NOT TO SCALE

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Web: www.edg.net.au

PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 5 & 6 PRECINCT

OAKLANDS PARADE, EAST BRISBANE

T1	TENDER	11/09/2026
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
SCHEMATICS**

SCALE:
NOT TO SCALE AT A1

PROJECT NO:
C3733a

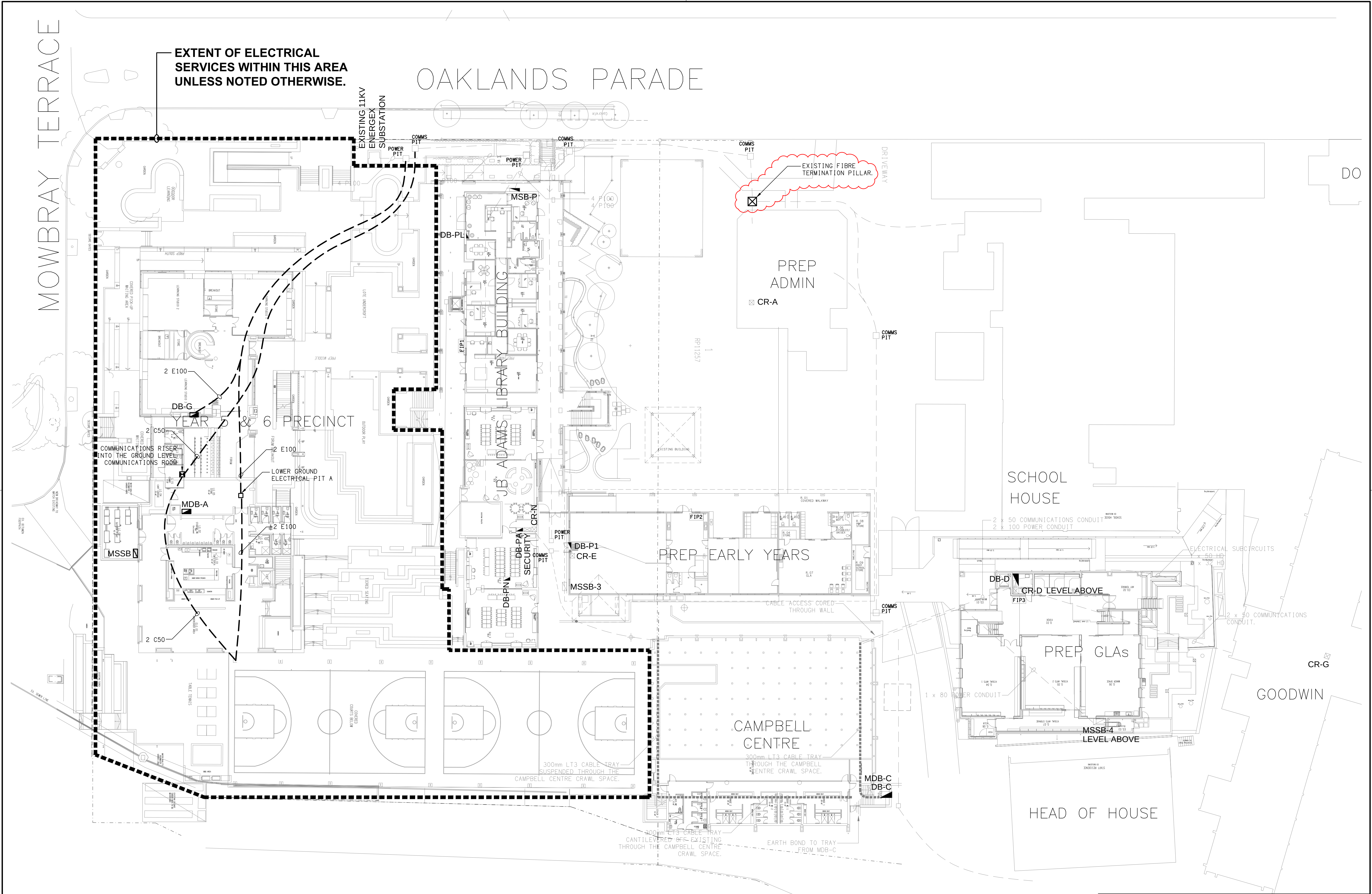
DRAWING NO:
E03

REVISION:
T1

MOWBRAY TERRACE

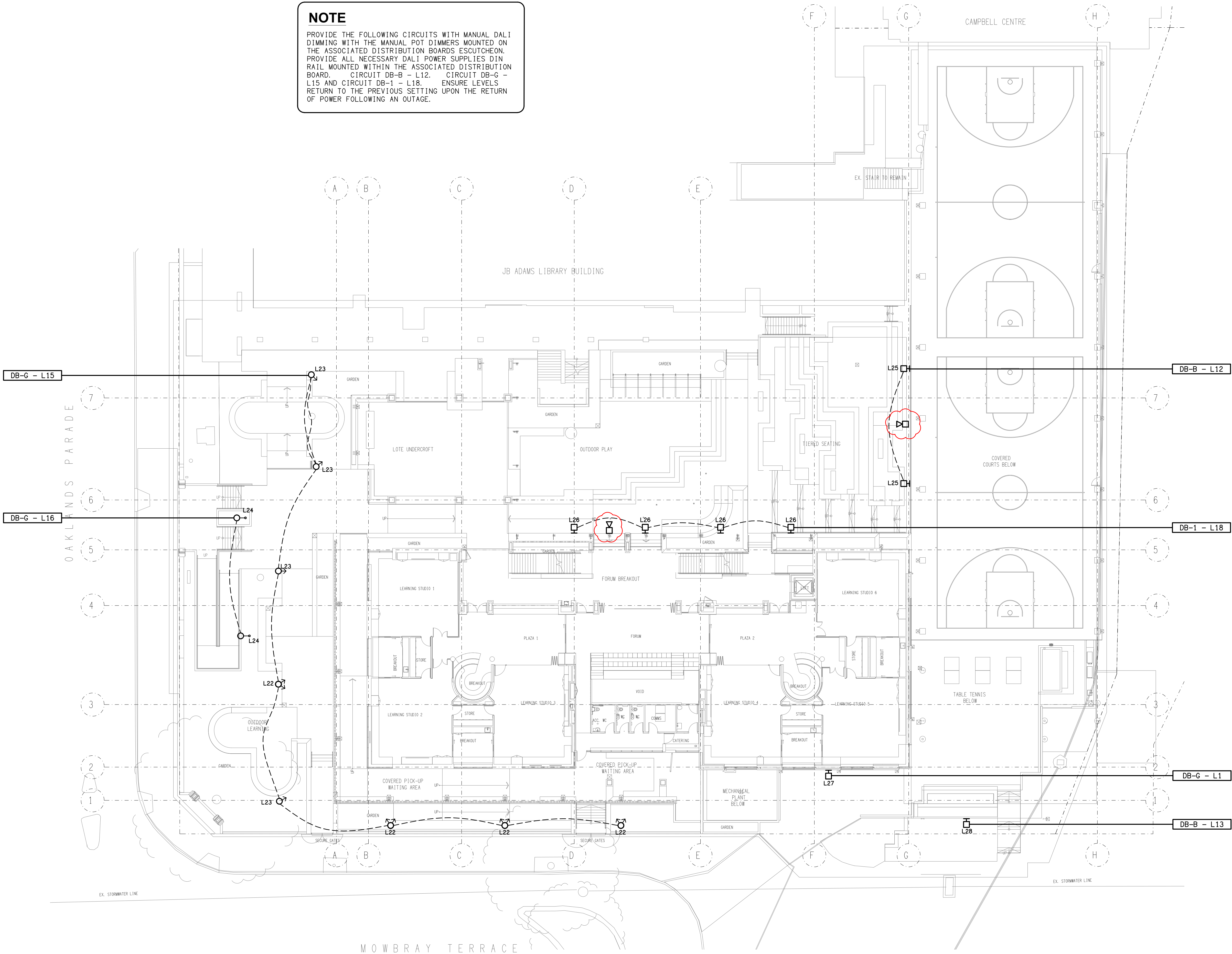


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NOTE

PROVIDE THE FOLLOWING CIRCUITS WITH MANUAL DALI DIMMING WITH THE MANUAL POT DIMMERS MOUNTED ON THE ASSOCIATED DISTRIBUTION BOARDS ESCUTCHEON. PROVIDE ALL NECESSARY DALI POWER SUPPLIES DIN RAIL MOUNTED WITHIN THE ASSOCIATED DISTRIBUTION BOARD. CIRCUIT DB-B - L12. CIRCUIT DB-G - L15 AND CIRCUIT DB-1 - L18. ENSURE LEVELS RETURN TO THE PREVIOUS SETTING UPON THE RETURN OF POWER FOLLOWING AN OUTAGE.



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PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 5 & 6 PRECINCT

OAKLANDS PARADE, EAST BRISBANE

T2	TENDER	07/10/2026
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
PRECINCT LANDSCAPE PLAN**

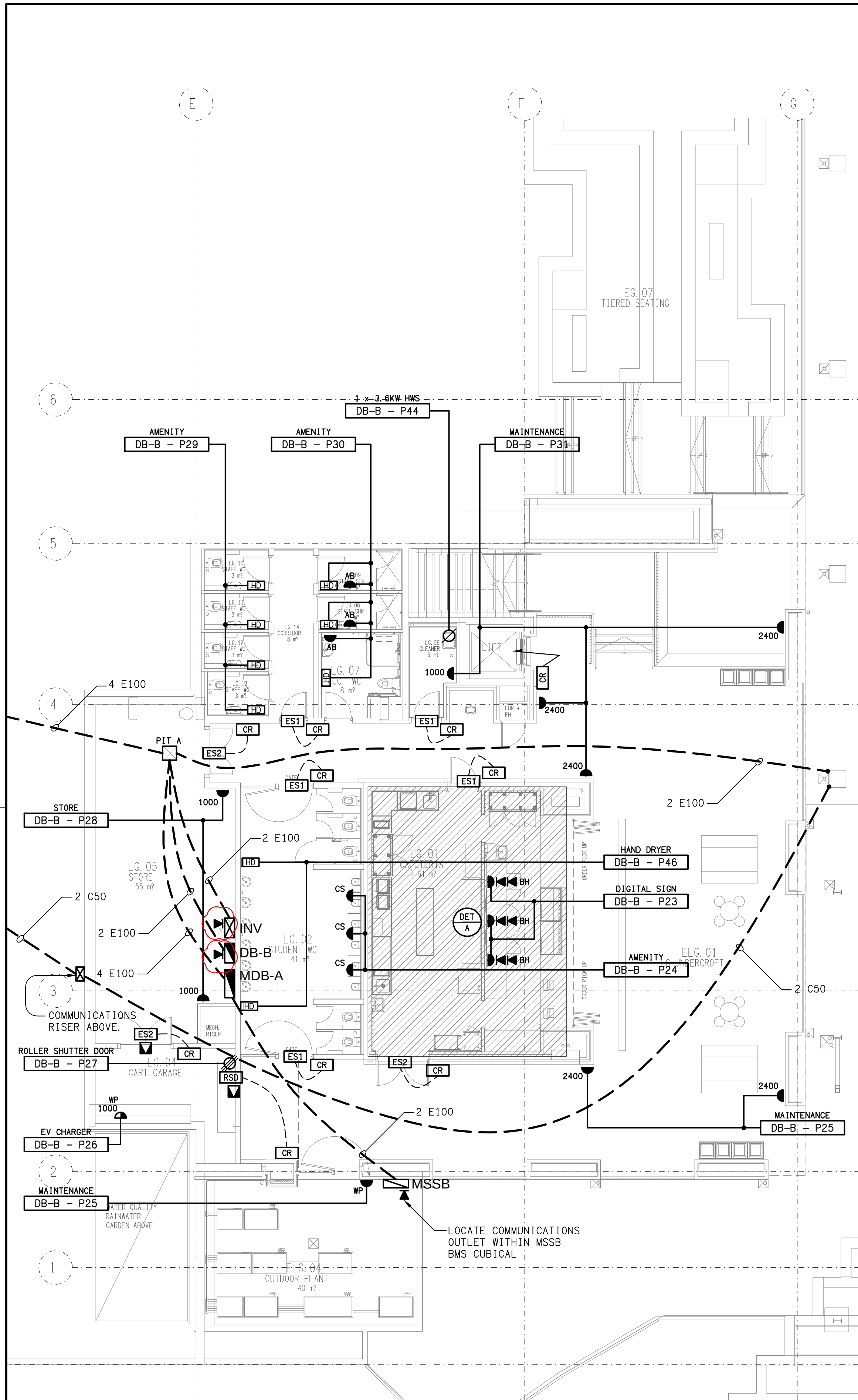
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AT A1

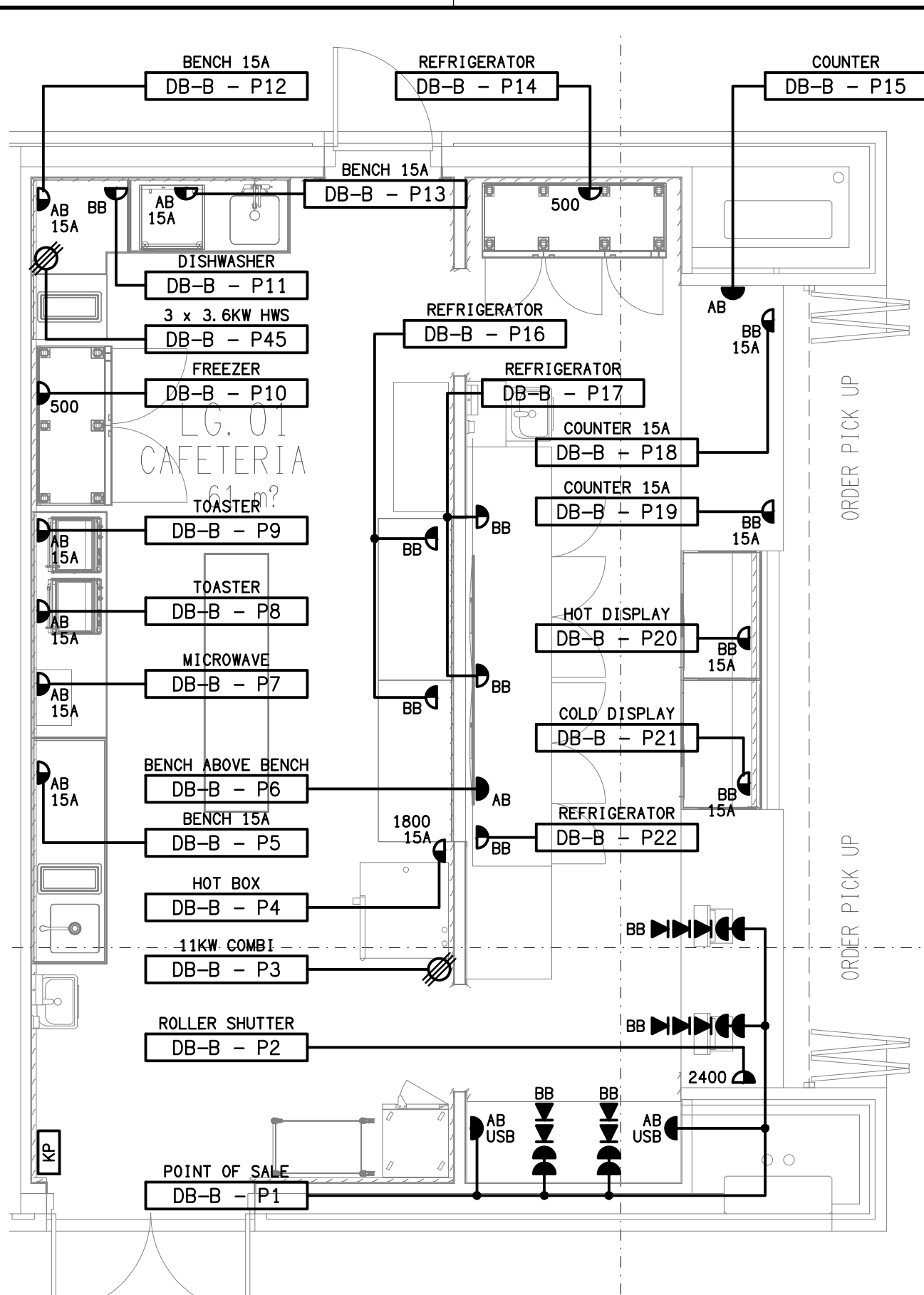
PROJECT NO:
C3733a

DRAWING NO:
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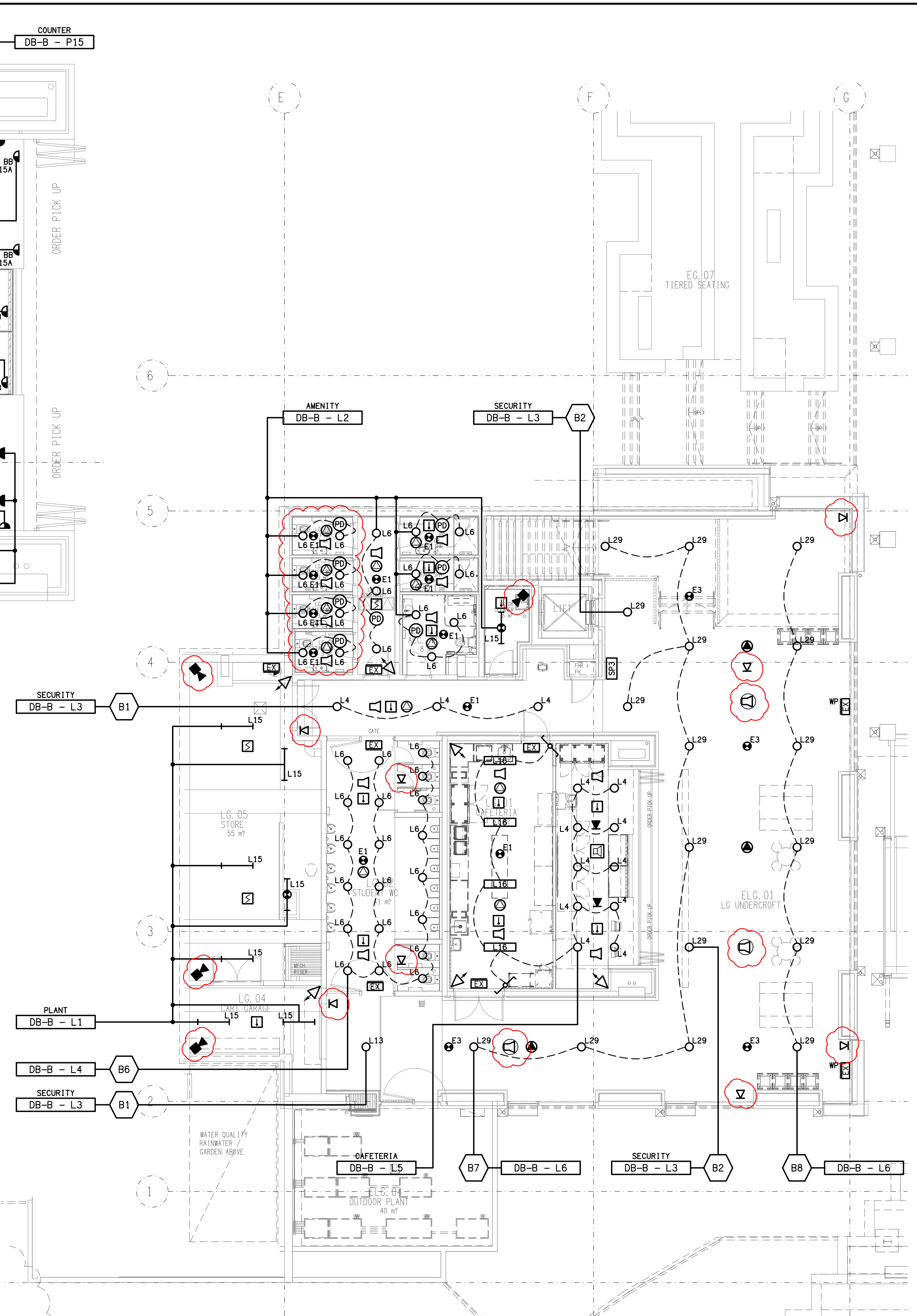
REVISION:
T2



LOWER GROUND
PRECINCT FLOOR PLAN
SCALE 1: 100



DETAIL A
CAFETERIA FLOOR PLAN
SCALE 1: 50



LOWER GROUND
PRECINCT REFLECTED CEILING PLAN
SCALE 1: 100

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PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 5 & 6 PRECINCT

OAKLANDS PARADE, EAST BRISBANE

T2	TENDER	07/10/2026
REV:	DESCRIPTION:	DATE:

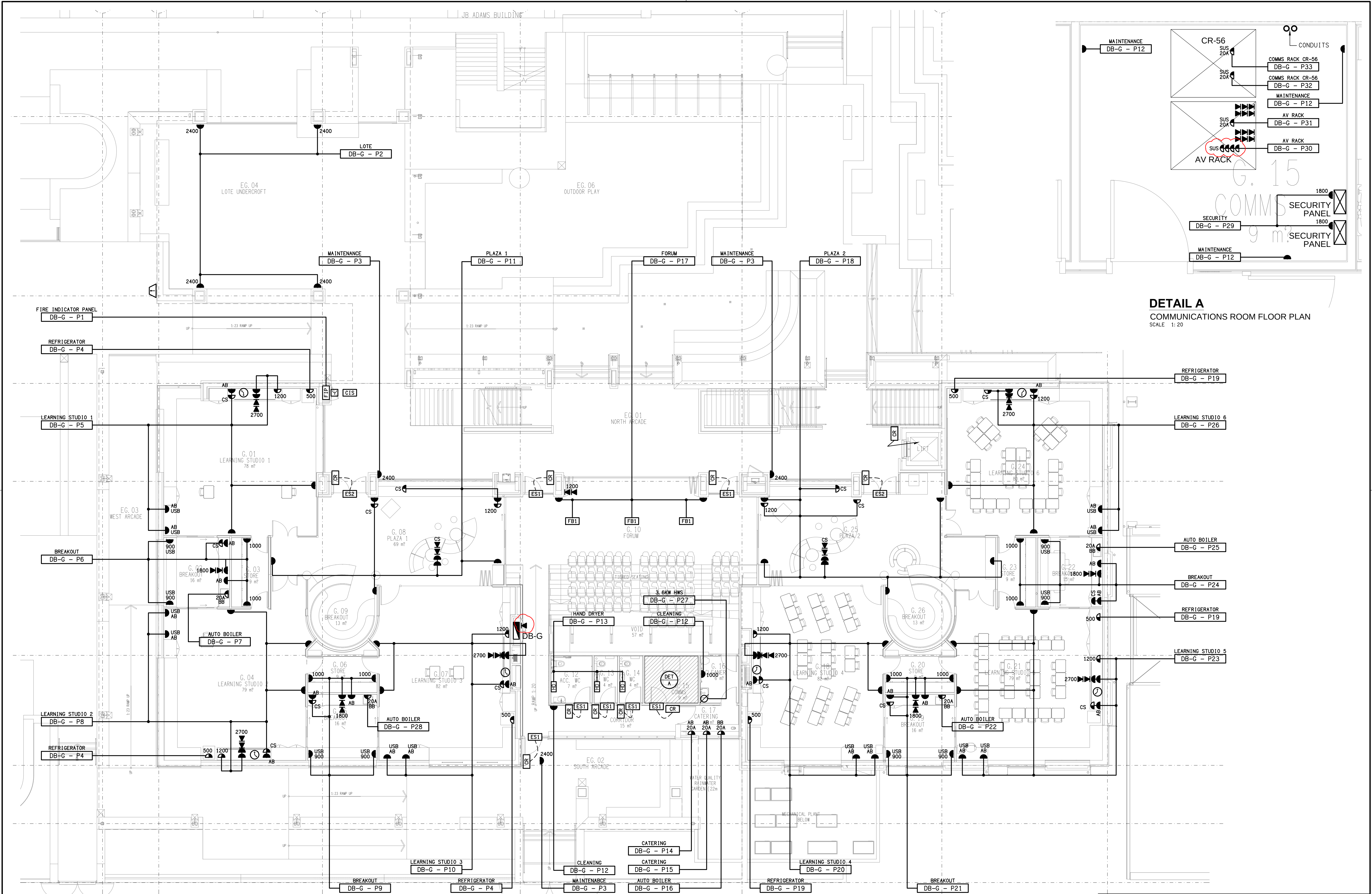
DRAWING:
ELECTRICAL SERVICES
PRECINCT
LOWER GROUND PLANS

SCALE:
1:100 UNO AT A1

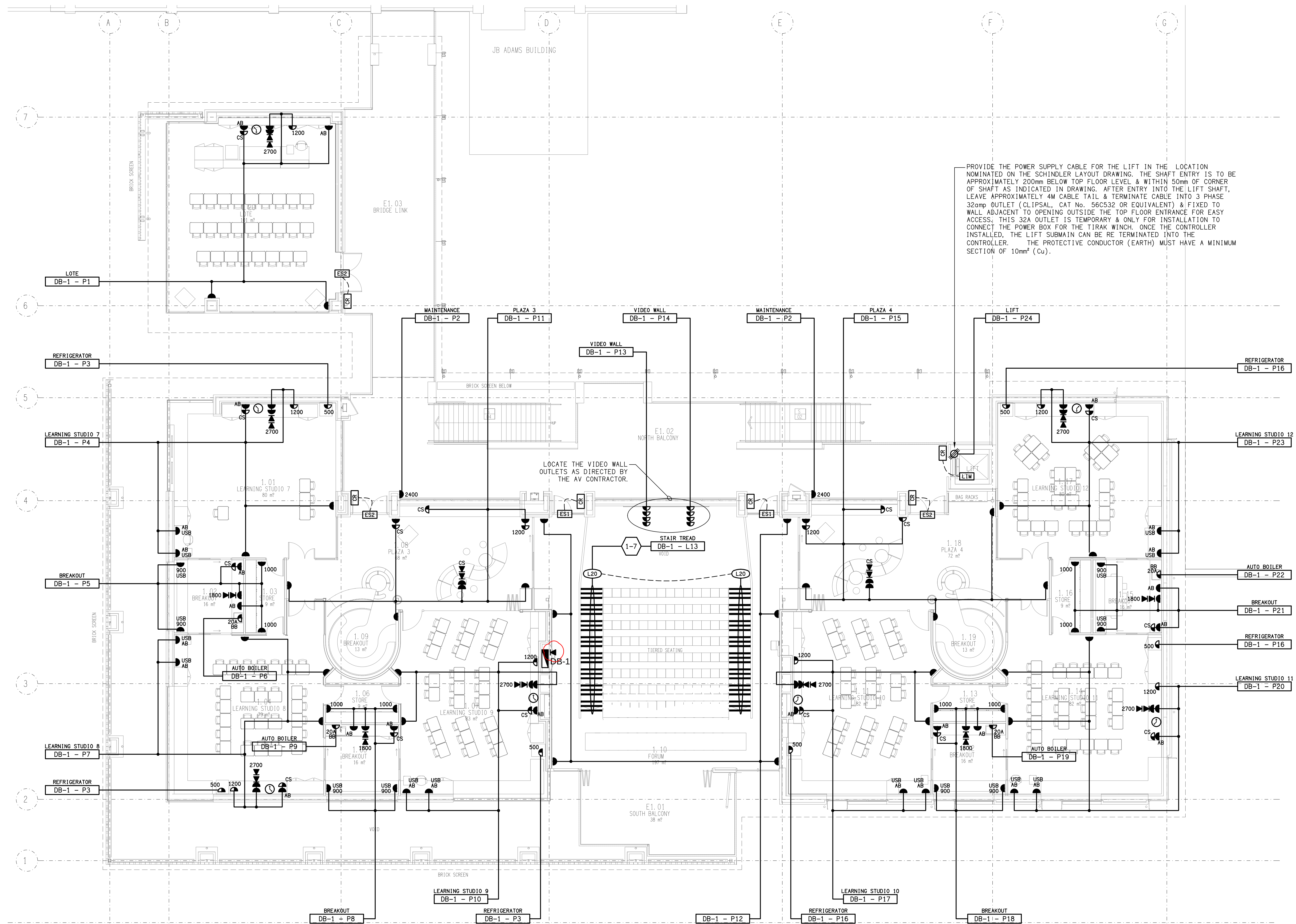
PROJECT NO:
C3733a

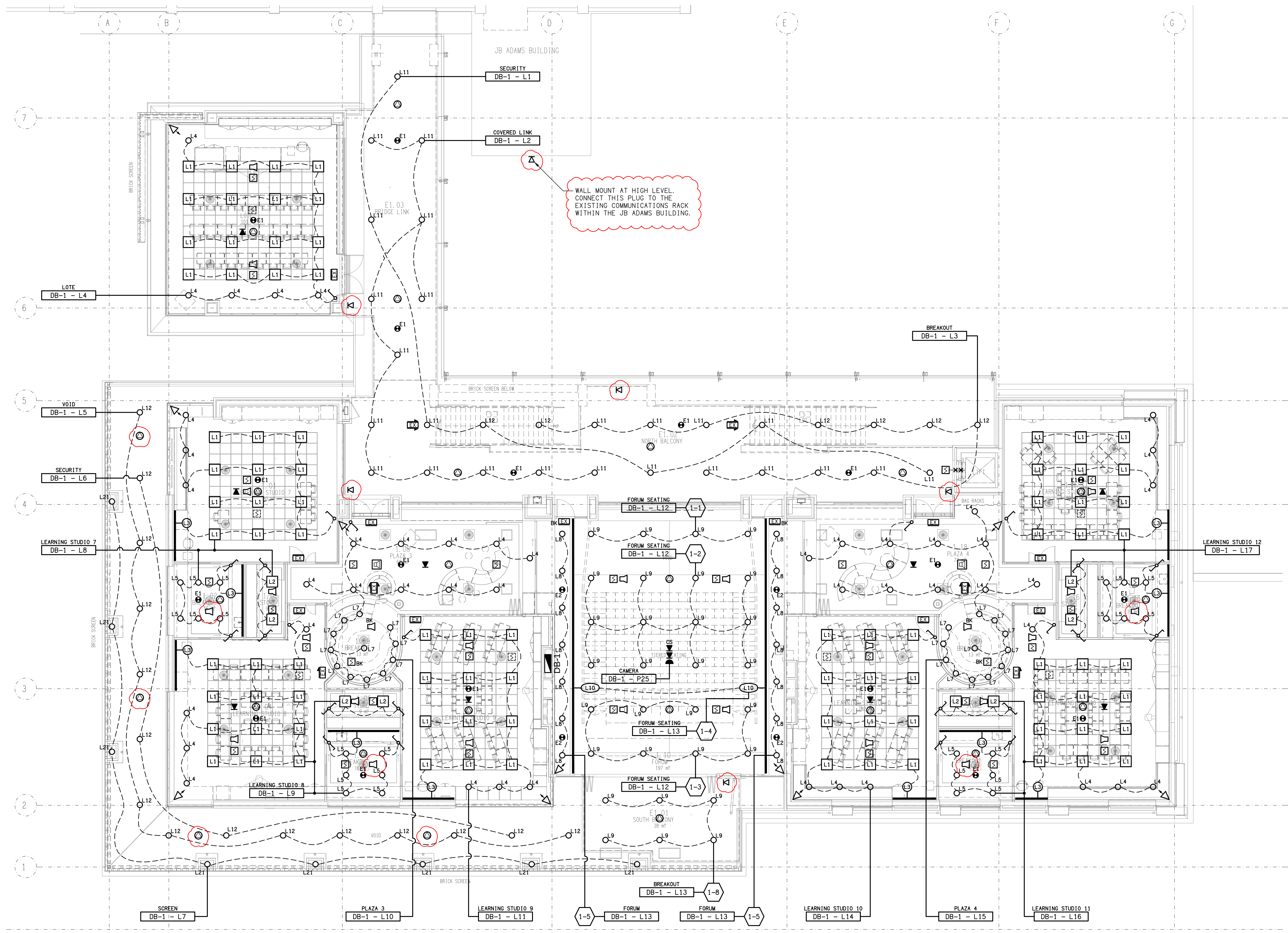
DRAWING NO:
E07

REVISION:
T2



DETAIL A
COMMUNICATIONS ROOM FLOOR PLAN
SCALE 1:20





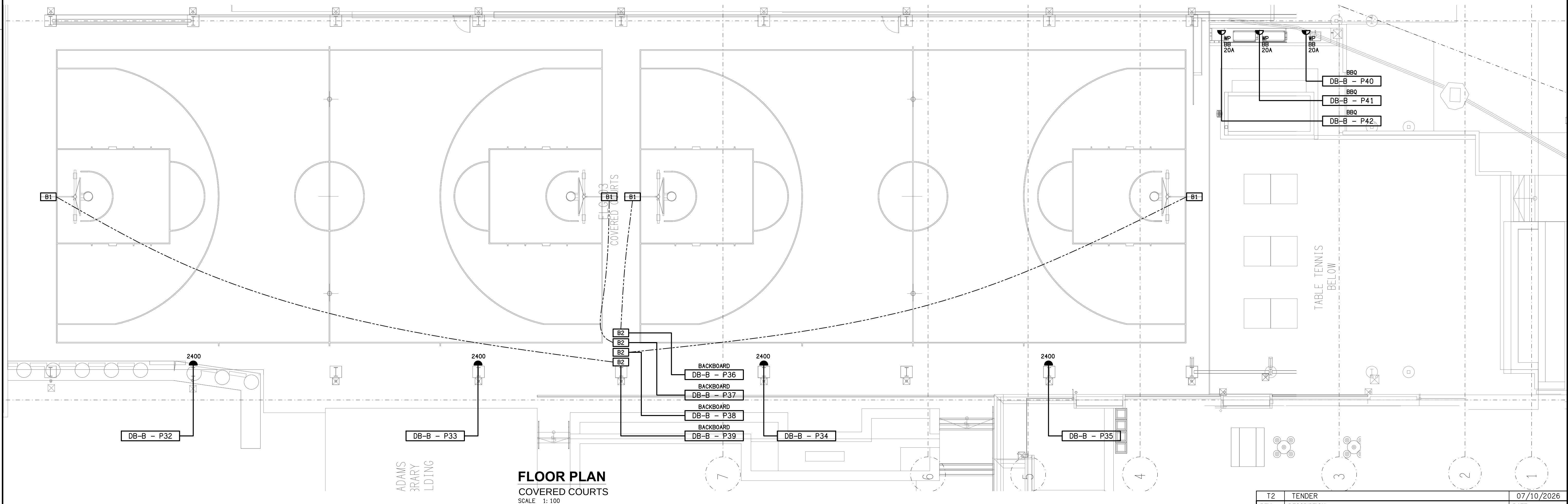
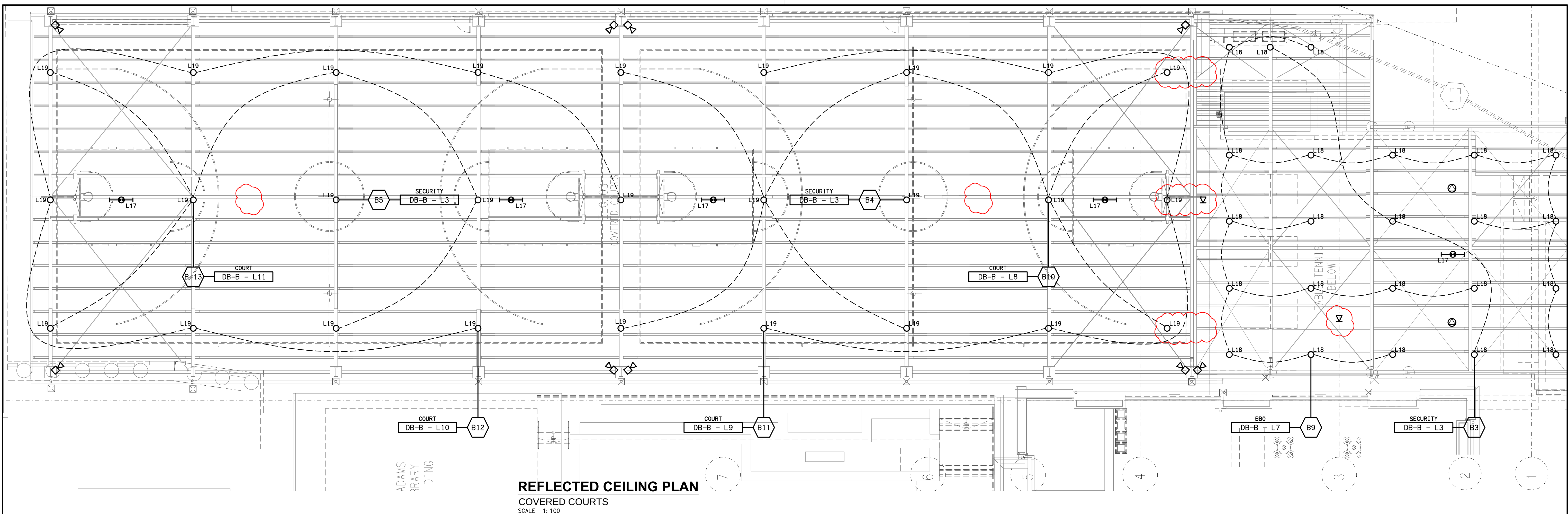
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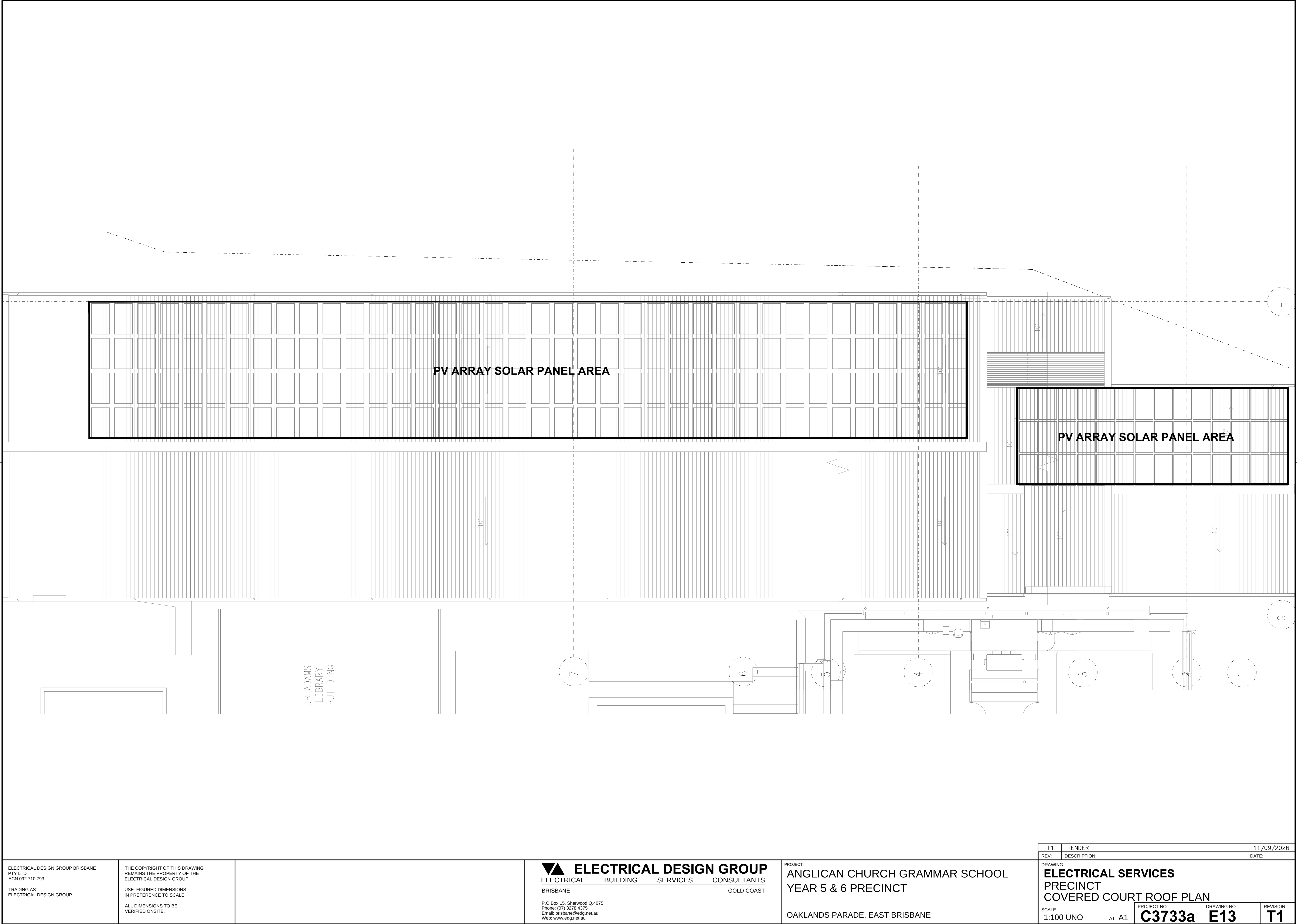
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PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 5 & 6 PRECINCT
OAKLANDS PARADE, EAST BRISBANE

T2	TENDER	07/10/2026
REV.	DESCRIPTION:	DATE:
DRAWING:	ELECTRICAL SERVICES	
SCALE:	PRECINCT	
1:100 UNO	LEVEL 1 REFLECTED CEILING PLAN	
AT A1	PROJECT NO:	DRAWING NO:
	C3733a	E11
	REVISION:	T2



T2	TENDER	07/10/2026
REV:	DESCRIPTION:	DATE:
DRAWING:		
ELECTRICAL SERVICES PRECINCT COVERED COURT PLANS		
SCALE:	PROJECT NO:	DRAWING NO:
1:100 UNO AT A1	C3733a	E12
		T2



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BUILDING

SERVICES

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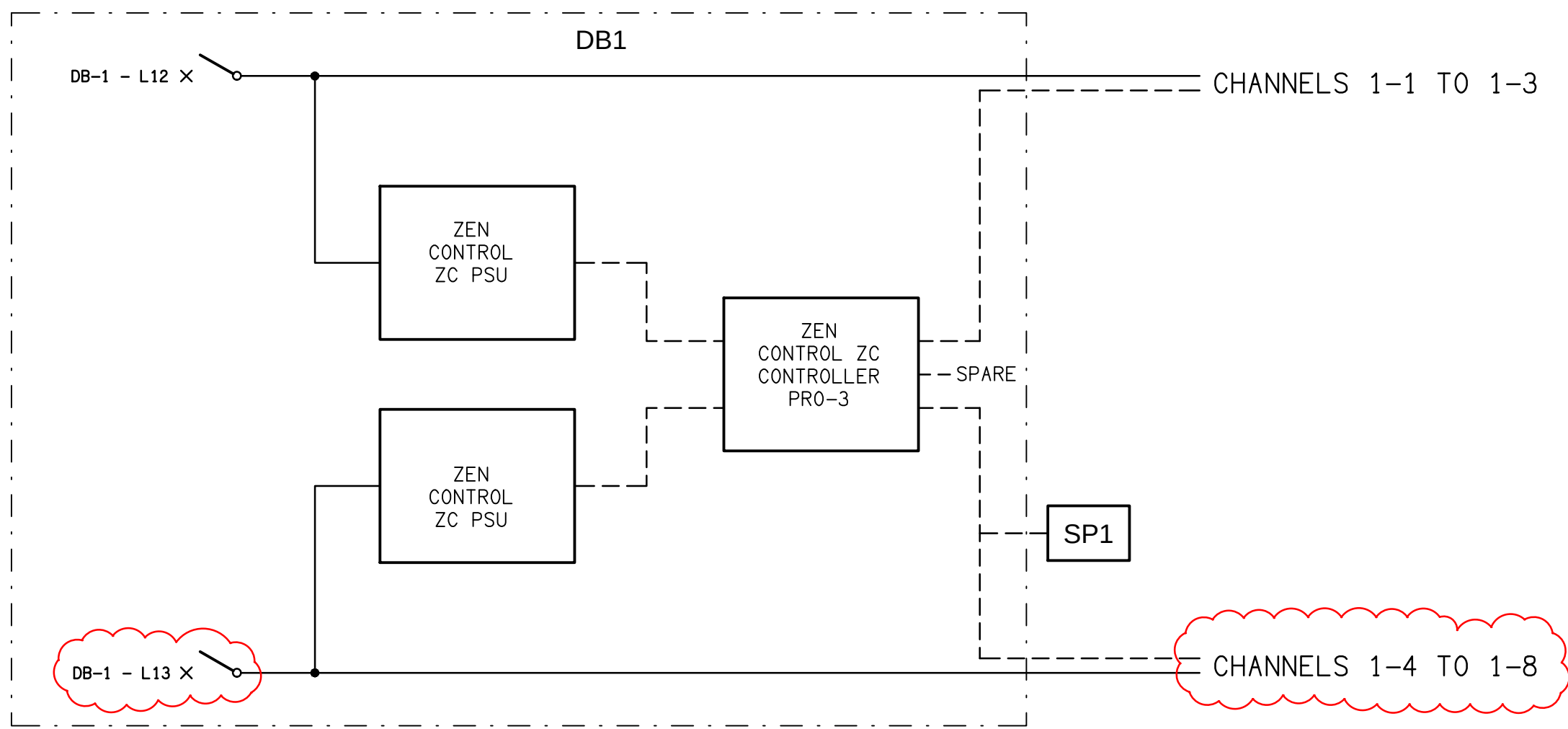
Email: brisbane@edg.net.au

Web: www.edg.net.au

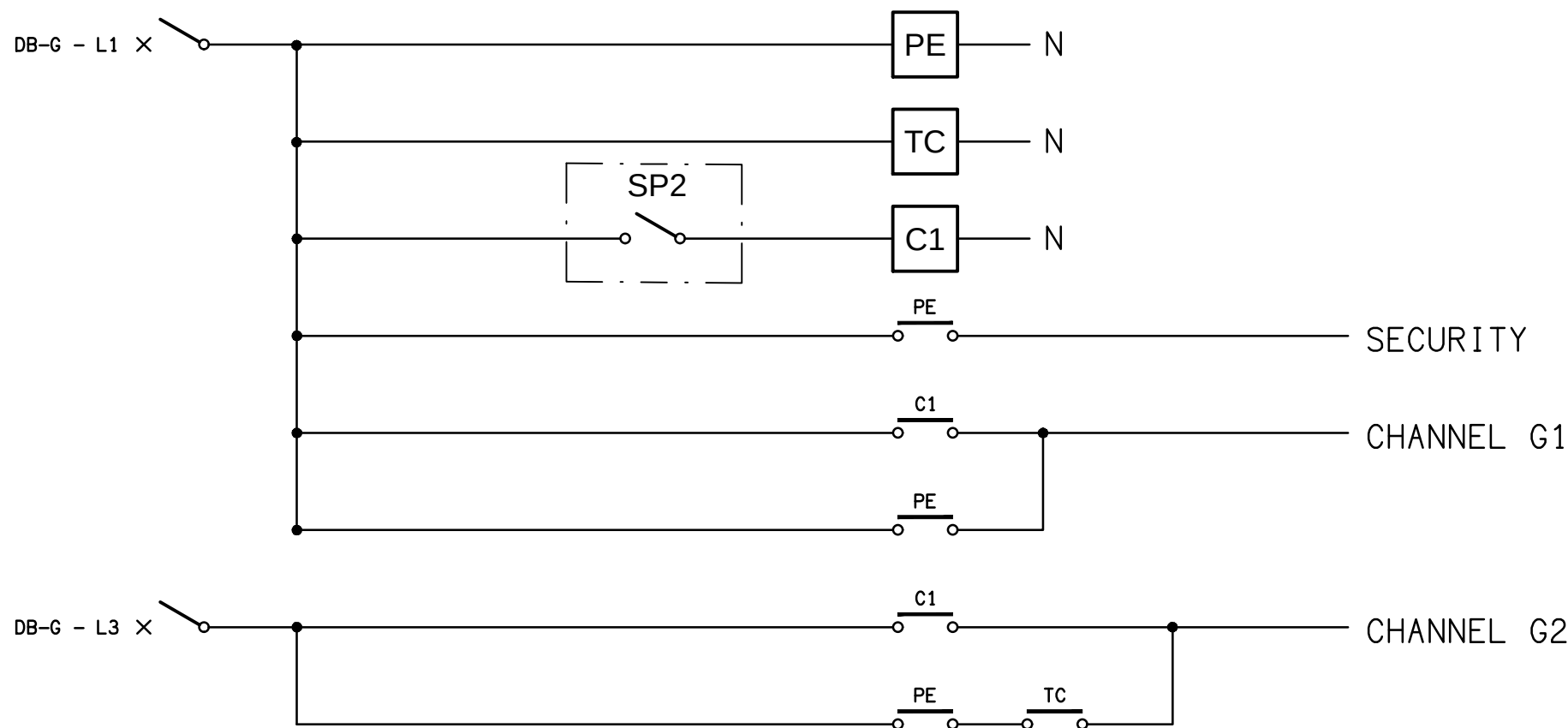
PROJECT:
ANGLICAN CHURCH GRAMMAR SCHOOL
YEAR 5 & 6 PRECINCT

OAKLANDS PARADE, EAST BRISBANE

T1	TENDER	11/09/2026
REV:	DESCRIPTION:	DATE:
DRAWING: ELECTRICAL SERVICES PRECINCT COVERED COURT ROOF PLAN		
SCALE: 1:100 UNO	AT A1	PROJECT NO: C3733a
		DRAWING NO: E13
		REVISION: T1



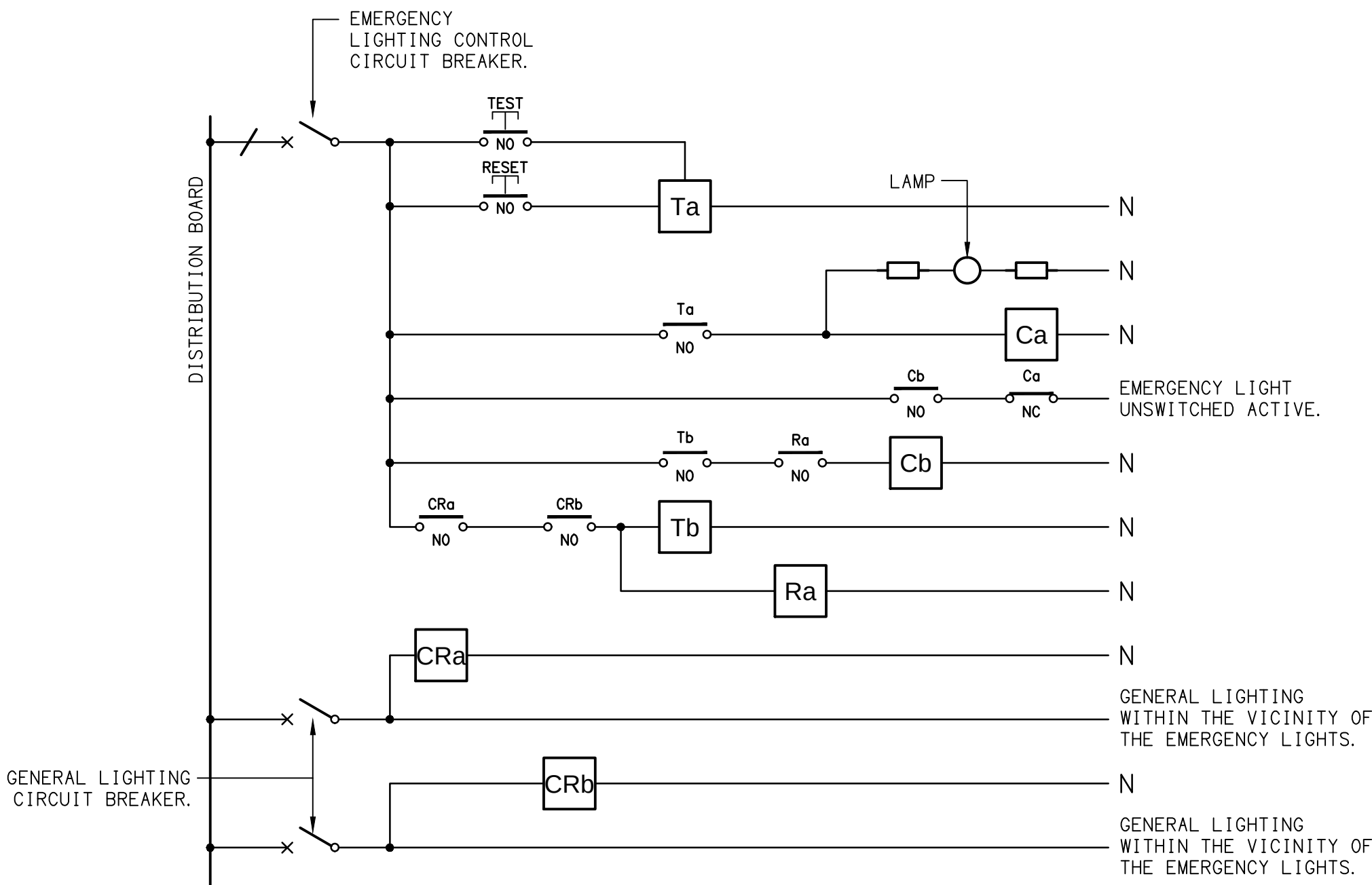
SCHEMATIC
LIGHTING CONTROL PANEL SP1
NOT TO SCALE



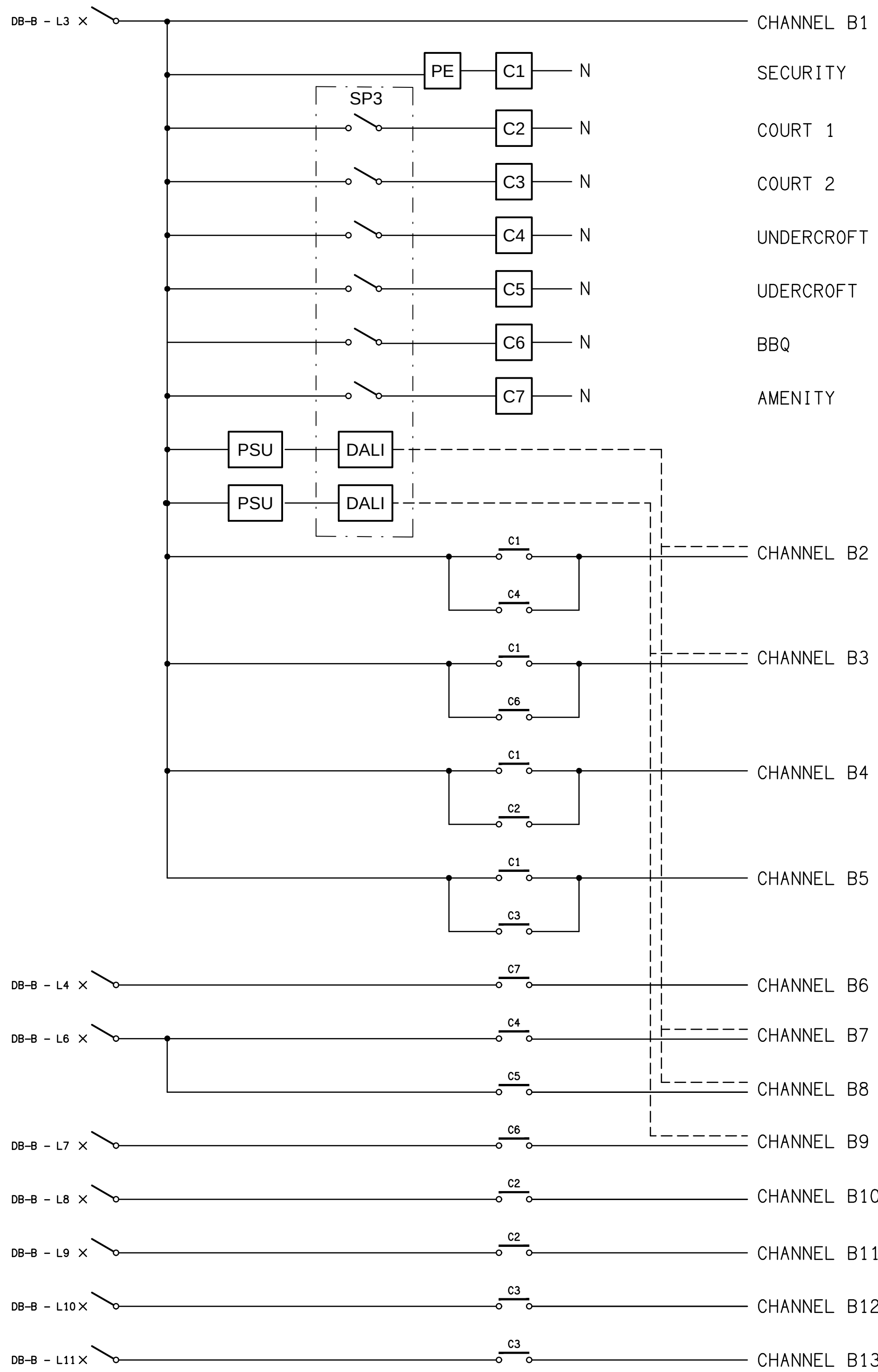
SCHEMATIC
LIGHTING CONTROL PANEL SP2
NOT TO SCALE

EMERGENCY LIGHTING NOTES

1. THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
2. PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY OF THE EMERGENCY LIGHTS.



SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE



SCHEMATIC
LIGHTING CONTROL PANEL SP3
NOT TO SCALE

EMERGENCY LIGHTING EQUIPMENT:

- TEST - TEST PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- RESET - RESET PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- LAMP - AMBER TEST INDICATING LAMP MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
- Ta - ADJUSTABLE 0-3 HOUR TIMED RELAY.
- Tb - 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.
- Cx - CONTACTOR x.
- CRx - CONTROL RELAY x.
- Rx - RELAY x.