



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

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C3209a - KINGS CHRISTIAN COLLEGE - PIMPAMA, AUDITORIUM PIM19

C3209a-0001(B).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION B - 11 MARCH 2024

ISSUING INFORMATION				DATE OF ISSUE							
				DAY	07	11					
				MONTH	03	03					
				YEAR	24	24					
REASON FOR ISSUE				P	P						
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

DISTRIBUTION				NUMBER OF COPIES							
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DOCUMENTS		REVISION									
C3209a-E01.dwg	LEGEND & DETAILS	A	B								
C3209a-E02.dwg	NOTES & SITE PLAN	A									
C3209a-E03.dwg	FLOOR PLAN	A									
C3209a-E04.dwg	REFLECTED CEILING PLAN	A									
C3209a-E05.dwg	LIGHTING CONTROL SCHEMATICS & DETAILS	A									
C3209a-0001.xls	CONTRACT DOCUMENT SCHEDULE	A	B								
C3209a-0002.xls	EQUIPMENT SCHEDULE	A	B								
C3209a-0004.xls	DISTRIBUTION BOARD DB-B SCHEDULE	A									
C3209a-0001.zip	FITTING & OUTLET DATASHEETS		A								



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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		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
L2	34W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION AXIS 1549-4K-34W	A
L3	45W 3000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1405-3K-45W	A
L4	8W 4000K LED	RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-4K-8W	A
L5	45W BLUE LED	RECESSED 35DEG BLUE LIGHT DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1405-3K-45W	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE SF1LEDP	A
E2	LED	THEATRE MASK EXIT LIGHT: 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. AS2293 CLASSIFICATION C0-D8 - C90-E3.2.	BLACK	STANILITE PQFBLEDP	A
EX	LED	EXIT LIGHT: 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. AS2293 CLASSIFICATION C0-D8 - C90-E3.2.	WHITE	STANILITE PQFLEDP	A
LIGHT SWITCH PANEL 1 (SP1)		MULTI GANG SWITCH PLATE C/W COLOURED ENGRAVING AS PER THE LIGHTING CONTROL SCHEMATIC AND SWITCH PANEL ELEVATION MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES	A
LIGHT SWITCH PANEL 2 (SP2)		MULTI GANG SWITCH PLATE C/W COLOURED ENGRAVING AS PER THE LIGHTING CONTROL SCHEMATIC AND SWITCH PANEL ELEVATION MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
LIGHT SWITCH PANEL 3 (SP3)		MULTI GANG SWITCH PLATE C/W COLOURED ENGRAVING AS PER THE LIGHTING CONTROL SCHEMATIC AND SWITCH PANEL ELEVATION MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES	A
LED SCREEN SWITCH		SINGLE GANG SWITCH PLATE C/W COLOURED ENGRAVING "LED SCREENS" ARRANGED TO SWITCH CIRCUITS DB-B - P28, DB-B - P29 AND DB-B - P30. MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES	A
MANUAL DALI POT DIMMER / LIGHT SWITCH		DALI POT C/W INTEGRAL 20 DALI DEVICE POWER SUPPLY C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE. FACTOR SET POWER ON RETURN TO LAST LEVEL.	WHITE	SMARTSCAPE DALI RD20 CLIPSAL C2000	A
PUSH BUTTON (PB)		MOMENTARY PUSH BUTTON	WHITE	CLIPSAL C2000 SERIES	A
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 C2000 SERIES 30USM	A
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 C2000 SERIES 30USM	A
CHANNEL x		CONTROL CHANNEL WITH A NUMERICAL REFERENCE. REFER TO THE POWER AND LIGHTING CONTROL SCHEMATIC / SCHEDULE			B
RELAY (Rx)		CONTROL RELAY DIN RAIL MOUNTED IN DB-B			A
CONTACTOR (Cx)		SWITCHING CONTACTOR DIN RAIL MOUNTED IN DB-B			A
NORMALLY OPEN CONTACTS (NO)		CONTACTS NORMALLY OPEN WHEN THE CONTROL COIL IS NOT POWERED ON			A
NORMALLY CLOSED CONTACTS (NC)		CONTACTS NORMALLY CLOSED WHEN THE CONTROL COIL IS NOT POWERED ON			A
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 C2000 SERIES	A
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 UNLESS NOTED AS BLACK	CLIPSAL C2000 SERIES	A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
THEATRE OUTLET		DOUBLE POWER OUTLET C/W ENGRAVED COLOURED CHANNEL IDENTIFICATION (LX-x) VISIBLE ON THE FACEPLATE MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O. CABLE EACH THEATRE OUTLET AS A SEPARATE CHANNEL TO THE THEATRE OUTLET PANEL.	WHITE UNLESS NOTED AS GREEN	CLIPSAL C2000 SERIES	A
THEATRE OUTLET PANEL		PROVIDE THE THEATRE OUTLET PANEL AS A CUSTOM ENCLOSURE AS PER THE THEATRE OUTLET PANEL SECTION WITH TERMINALS TO FACILITATE THE CONNECTION OF THE FIXED 2.5MM CABLING TO 10 AMP FLEX AND PLUGS. PROVIDE A SHOP DRAWING OF THE THEATRE OUTLET PANEL FOR APPROVAL.			A
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	-	-	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
DB-A - P1		UTILISE ONE OF THE EXISTING DB-A POWER CIRCUITS TO SUPPLY THE NEW CRY ROOM TV GPO.			A
DB-B		PROVIDE A NEW DISTRIBUTION BOARD DB-B SUPPLIED BY A NEW 4C X 50MM Cu XLPE / PVC + E SUBMAIN PROTECTED BY A NEW 160 AMP MCCB IN DB-C. PROVIDE DISTRIBUTION BOARD DB-B AS PER THE DISTRIBUTION BOARD SCHEDULE AND NOTES.			A
DB-C		EXISTING EXTERNA BUILDING MAIN DISTRIBUTION BOARD DB-C TO BE PROVIDED WITH A NEW MCCB TO SUPPLY DB-B. PROVIDE THE NEW MCCB TO MATCH THE EXISTING AND UPDATE THE LABELLING PRIOR TO PRACTICAL COMPLETION.			A
COMMUNICATIONS RACK CR-A		EXISTING COMMUNICATIONS RACK TO BE PROVIDED WITH ADDITIONAL PATCH PANELS AS NECESSARY TO ACCOMMODATE THE NEW COMMUNICATIONS OUTLETS. REMOVE ALL REDUNDANT CABLING AND UPDATE ALL PORT LABELS PRIOR TO PRACTICAL COMPLETION.			A
AUDIO VISUAL RACK 1 AV-1		FULL HEIGHT AUDIO VISUAL RACK PROVIDED BY CAPTIVATE AV. PROVIDE THE RACK WITH THE NECESSARY PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS CABLED TO AV-1. PROVIDE THE RACK WITH A FOBOT TO ACCOMMODATE THE FIBRE CABLE FROM AV-3. COORDINATE THE PATCH PANELS AND FOBOT MOUNTING POSITIONS ON SITE WITH CAPTIVATE AV.			A
AUDIO VISUAL RACK 2 AV-2		FULL HEIGHT AUDIO VISUAL RACK PROVIDED BY CAPTIVATE AV.			A
AUDIO VISUAL RACK 3 AV-3		BELOW BENCH AUDIO VISUAL RACK PROVIDED BY CAPTIVATE AV. PROVIDE THE RACK WITH A FOBOT TO ACCOMMODATE THE FIBRE CABLE FROM AV-1. COORDINATE THE FOBOT MOUNTING POSITIONS ON SITE WITH CAPTIVATE AV.			A



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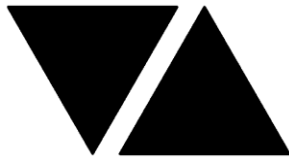
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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
FLOOR BOX TYPE 1 (FB1)		FLUSH RECESSED STAGE FLOOR BOX TO CONTAIN THE OUTLETS AND CONDUIT ACCESS AS DETAILED ON THE FLOOR BOX DETAIL	STAINLESS STEEL	ECD FB6SF	B
COMMUNICATIONS OUTLET CABLED TO CR-A		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-A 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	CLIPSAL C2000 SERIES	A
COMMUNICATIONS OUTLET CABLED TO AV-1		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN THE AUDIO VISUAL RACK AV-11 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	CLIPSAL C2000 SERIES	A
CABLE ACCESS (A1)		PROVIDE A1 AS MULTIPLE WALL MOUNTED FACEPLATES POSITIONED AS PER THE ARCHITECTURAL DETAIL. PROVIDE THE OUTLET CONFIGURATION AND CABLING AS PER THE A1 / A2 FACEPLATE SCHEMATIC. PROVIDE THE GPO AS A CONVENTIONAL GPO CIRCUITED AS SHOWN AND THE RJ45 OUTLETS AS CONVENTIONAL COMMUNICATIONS OUTLETS CABLED TO THE COMMUNICATIONS RACK. PROVIDE THE HDMI PORT AS A FACTORY TERMINATED FEMALE PORT CABLED TO THE A2 HDMI PORT VIA A HDMI 2 CABLE LESS THAN 5M IN LENGTH.	WHITE	CLIPSAL C2000 SERIES	A
CABLE ACCESS (A2)		PROVIDE A2 AS MULTIPLE WALL MOUNTED FACEPLATES POSITIONED AS PER THE ARCHITECTURAL DETAIL. PROVIDE THE OUTLET CONFIGURATION AND CABLING AS PER THE A1 / A2 FACEPLATE SCHEMATIC. PROVIDE THE GPO AS A CONVENTIONAL GPO CIRCUITED AS SHOWN AND THE RJ45 OUTLETS AS CONVENTIONAL COMMUNICATIONS OUTLETS CABLED TO THE COMMUNICATIONS RACK. PROVIDE THE HDMI PORT AS A FACTORY TERMINATED FEMALE PORT CABLED TO THE A1 HDMI PORT VIA A HDMI 2 CABLE LESS THAN 5M IN LENGTH.	WHITE	CLIPSAL C2000 SERIES	A



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DISTRIBUTION BOARD DB-B














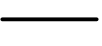
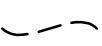
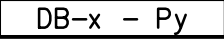



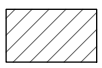










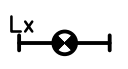





REVISION A - 7 MARCH 2024

							REV
FAULT CURRENT: 6KA							A
MAIN SWITCH: 250A NON AUTO LOAD BREAK ISOLATOR							A
CHASSIS SIZE: 72 POLES							A
SUPPLIED FROM: DB-C							A
CHASSIS RATING: 250A							A
SUPPLY CABLE: 4C 50							A
PHASES: 3							A
PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS. ACCURATELY LABEL EACH CIRCUIT BREAKER WITH THE USE AND THE POSITION. PROVIDE THE DB WITH AN AS2293 EMERGENCY LIGHT TESTING FACILITY.							A
CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm ²)	LOCATION	CIRCUIT USE	
P1	3	20	RCBO	2.5	AV RACKS	AV-1	A
P2	3	20	RCBO	2.5	AV RACKS	AV-2	A
P3	3	20	RCBO	2.5	AV RACKS	AV-2	A
P4	1	20	RCBO	2.5	AV RACKS	GPO	A
P5	1	20	RCBO	2.5	BIO BOX	GPO	A
P6	1	20	RCBO	2.5	BIO BOX	GPO	A
P7	1	20	RCBO	2.5	BIO BOX	TV	A
P8	1	20	RCBO	2.5	BIO BOX	CLEANING	A
P9	1	20	RCBO	2.5	BIO BOX	GPO	A
P10	1	20	RCBO	2.5	EXTERNAL	GPO	A
P11	1	20	RCBO	2.5		CLEANING	A
P12	1	20	RCBO	2.5		CLEANING	A
P13	1	20	RCBO	2.5	GREEN ROOM	GPO	A
P14	1	20	RCBO	2.5	MEETING OFFICE	GPO	A
P15	1	20	RCBO	2.5	COMMON ROOM	GPO	A
P16	1	20	RCBO	2.5	COMMON ROOM	AUTO BOILER	A
P17	1	20	RCBO	2.5	COMMON ROOM	APPLIANCES	A
P18	1	20	RCBO	2.5	COMMON ROOM	REFRIGERATOR	A
P19	1	20	RCBO	2.5	COMMON ROOM	KITCHEN	A
P20	1	20	RCBO	2.5	GREEN ROOM	TV	A
P21	1	20	RCBO	2.5		CLEANING	A
P22	1	20	RCBO	2.5		CLEANING	A
P23	1	20	RCBO	2.5	STAGE	GPO	A
P24	1	20	RCBO	2.5		CLEANING	A
P25	1	20	RCBO	2.5	STAGE	GPO	A
P26	1	20	RCBO	2.5	STAGE	GPO	A
P27	1	20	RCBO	2.5	STAGE	FLOOR BOXES	A
P28	1	20	RCBO	2.5	STAGE	LED SCREEN	A
P29	1	20	RCBO	2.5	STAGE	LED SCREEN	A
P30	1	20	RCBO	2.5	STAGE	LED SCREEN	A
P31	1	20	RCBO	2.5	BIO BOX	AV-3	A
P32	1	20	RCBO	2.5		CONTROL	A
L1	1	20	RCBO	2.5		LIGHTING	A
L2	1	20	RCBO	2.5		LIGHTING	A
L3	1	20	RCBO	2.5		LIGHTING	A
L4	1	20	RCBO	2.5		LIGHTING	A
L5	1	20	RCBO	2.5		LIGHTING	A
L6	1	20	RCBO	2.5		LIGHTING	A
L7	1	20	RCBO	2.5		LIGHTING	A
L8	1	20	RCBO	2.5		LIGHTING	A

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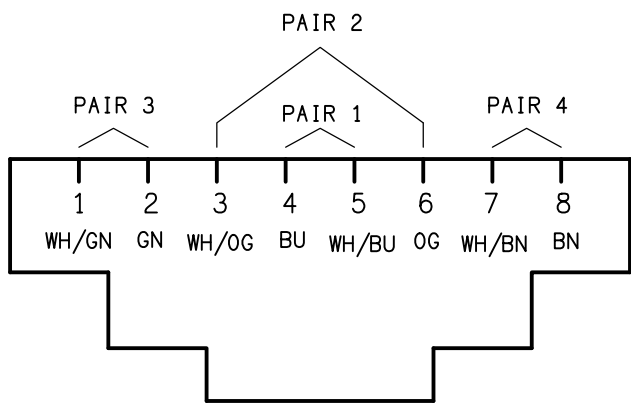
Pages inc. any attach. 1 of 1

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.
-  THEATRE OUTLET.
-  Ax CABLE ACCESS, TYPE AS NOTED.
-  FBx ELECTRICAL FLOOR BOX, TYPE AS NOTED.
-  SINGLE PHASE ISOLATOR.
-  THREE PHASE ISOLATOR.
-  SPx LIGHTING 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.
-  ELECTRICAL EQUIPMENT AS NOTED.
-  RJ45 COMMUNICATIONS OUTLET CABLED TO AV-1
-  RJ45 COMMUNICATIONS OUTLET CABLED TO CR-A.
-  REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
- xx LIGHTING CHANNEL REFERENCE.
-  Rx RELAY.
-  Cx CONTACTOR.
-  DALI DALI MANUAL POT DIMMER.
-  MOMENTARY PUSH BUTTON.
-  NO NORMALLY OPEN.
-  NC NORMALLY CLOSED.
-  E1 E1: RECESSED GENERAL LED EMERGENCY LIGHT.
-  E2 EX E2 EX: THEATRE MASK EMERGENCY LED EXIT LIGHT.
-  EX EX: EMERGENCY LED EXIT LIGHT.
-  Lx Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
-  L1 L1: LED STRIP LIGHT MOUNTED UNDER OVERHEAD CUPBOARD.
-  L2 L2: 600 x 600 LED FLAT PANEL.
-  L3 L3: RECESSED DALI DIMMABLE DOWNLIGHT.
-  L4 L4: RECESSED AMENITY DOWNLIGHT.
-  L5 L5: RECESSED DIMMABLE BLUE LIGHT.

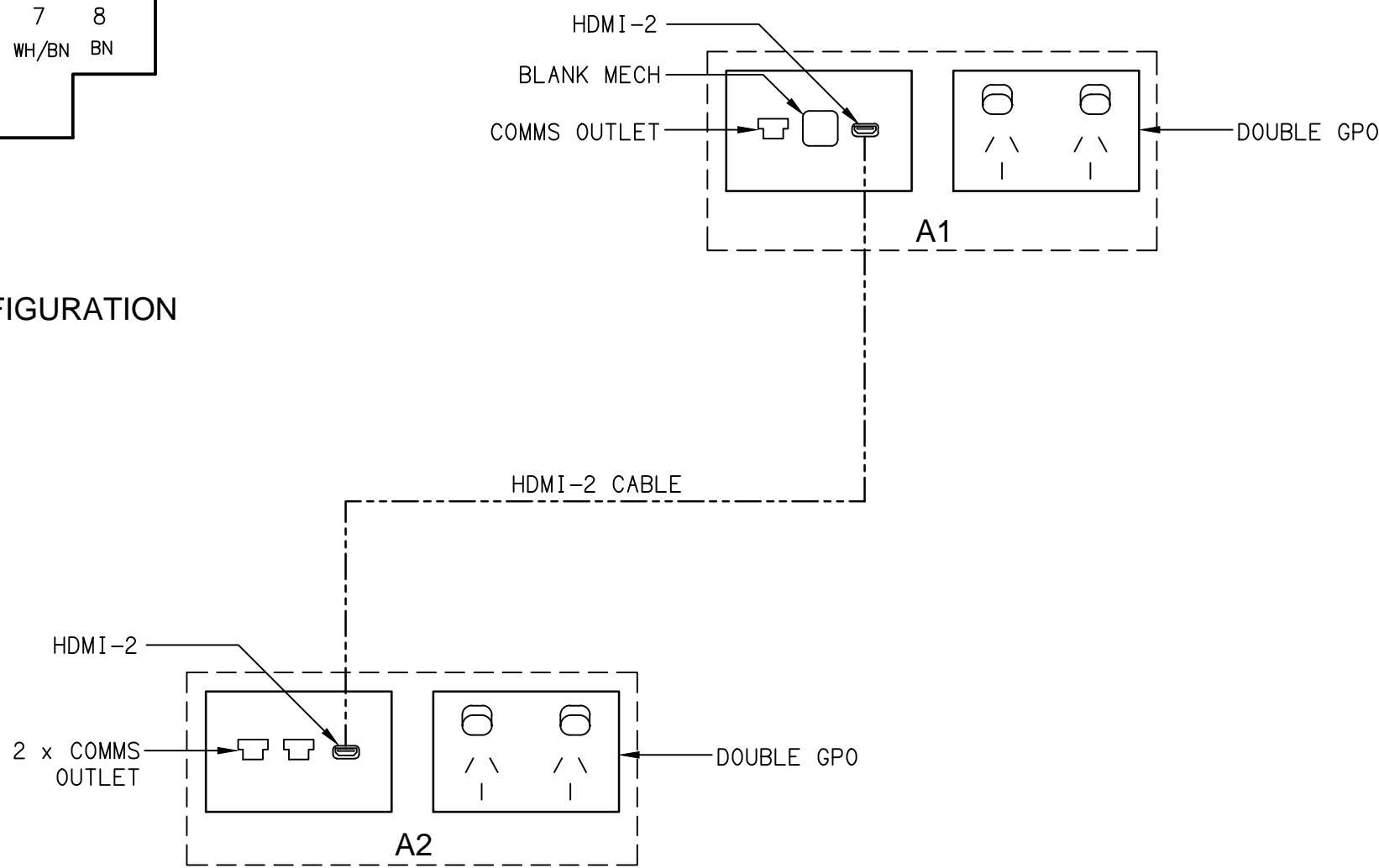
NOTE

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.



SCHEMATIC

RJ45 PINOUT CONFIGURATION
NOT TO SCALE

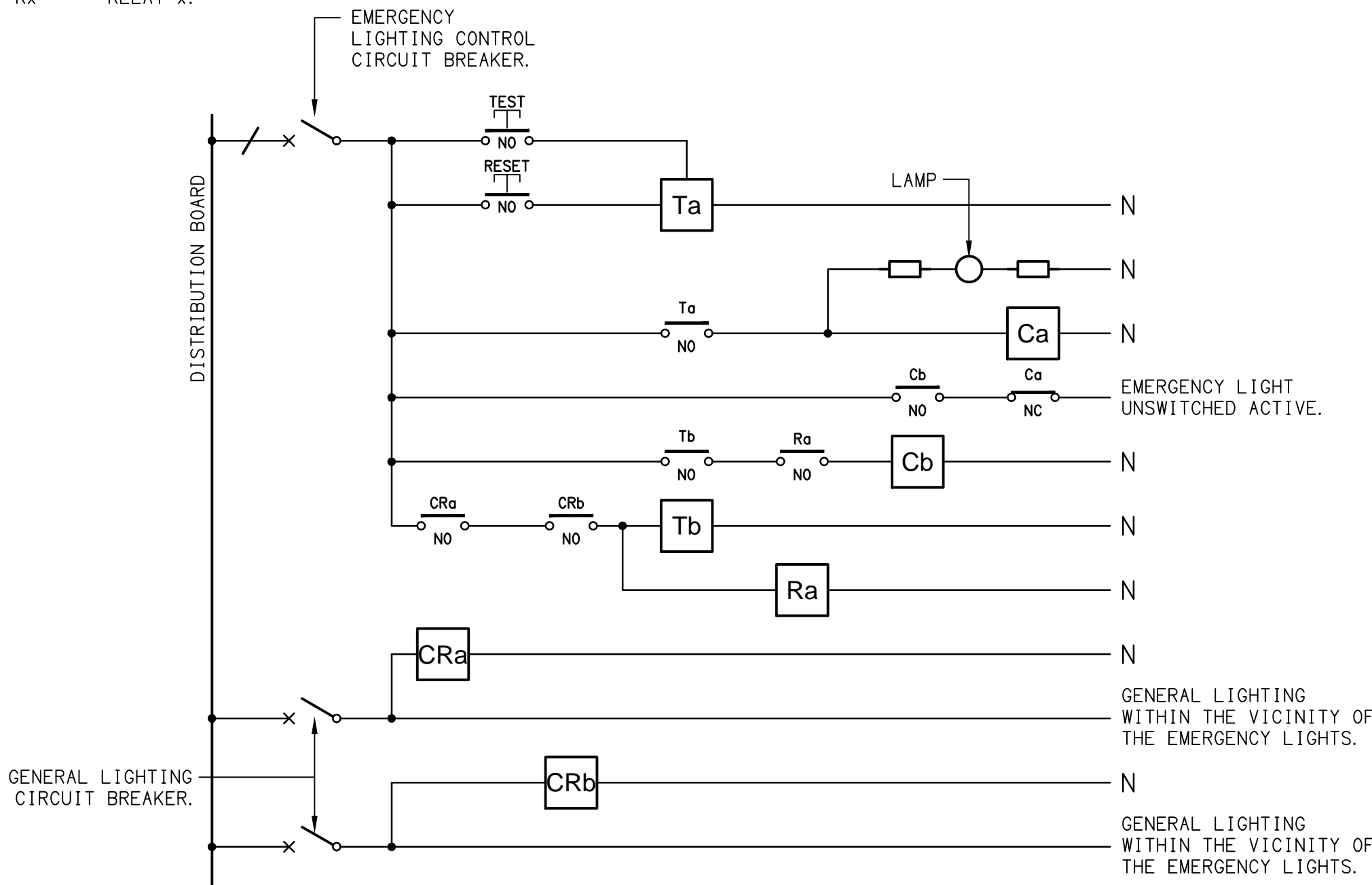


SCHEMATIC

A1 & A2 FACEPLATES
NOT TO SCALE

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.

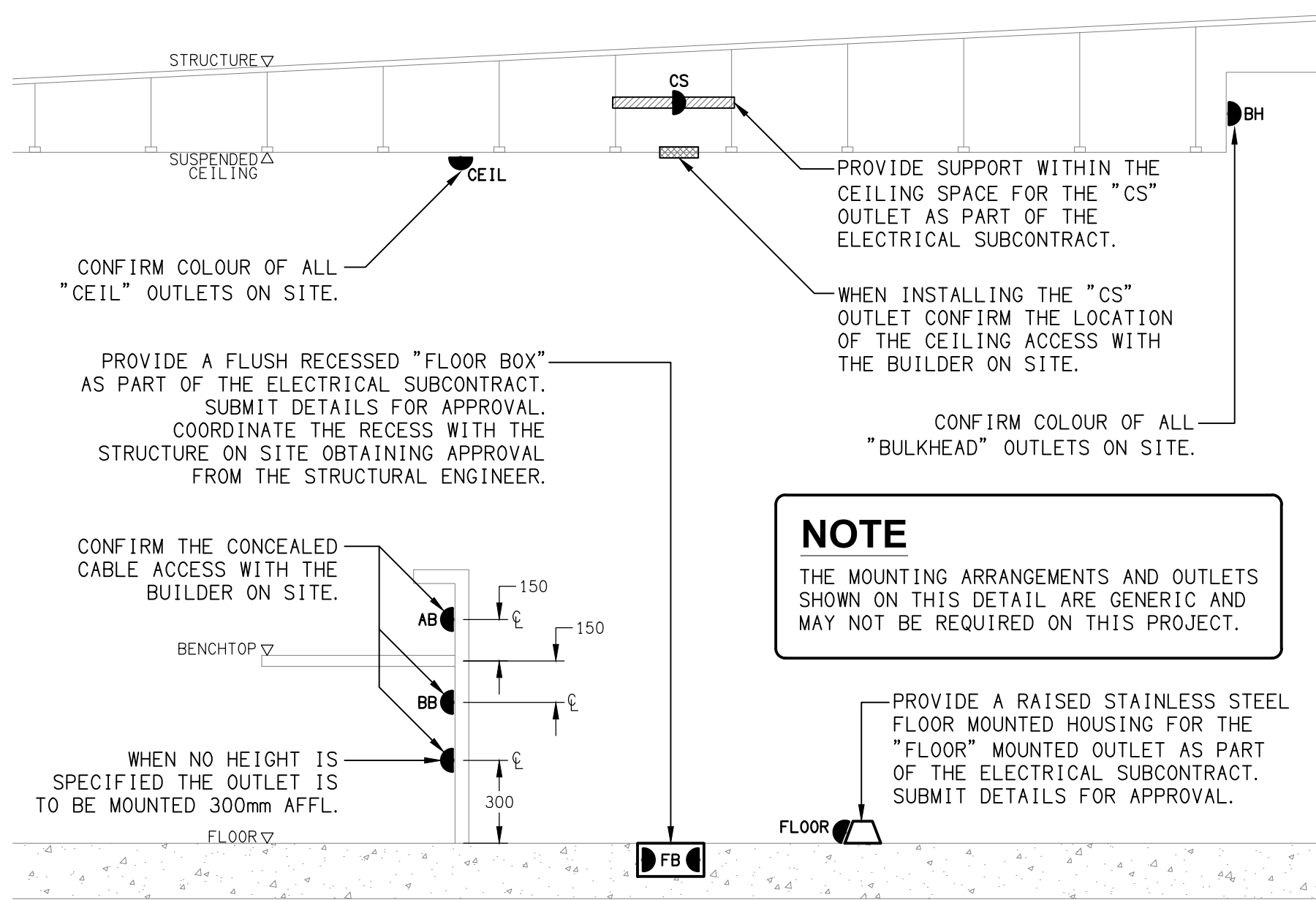


SCHEMATIC

EMERGENCY LIGHTING
NOT TO SCALE

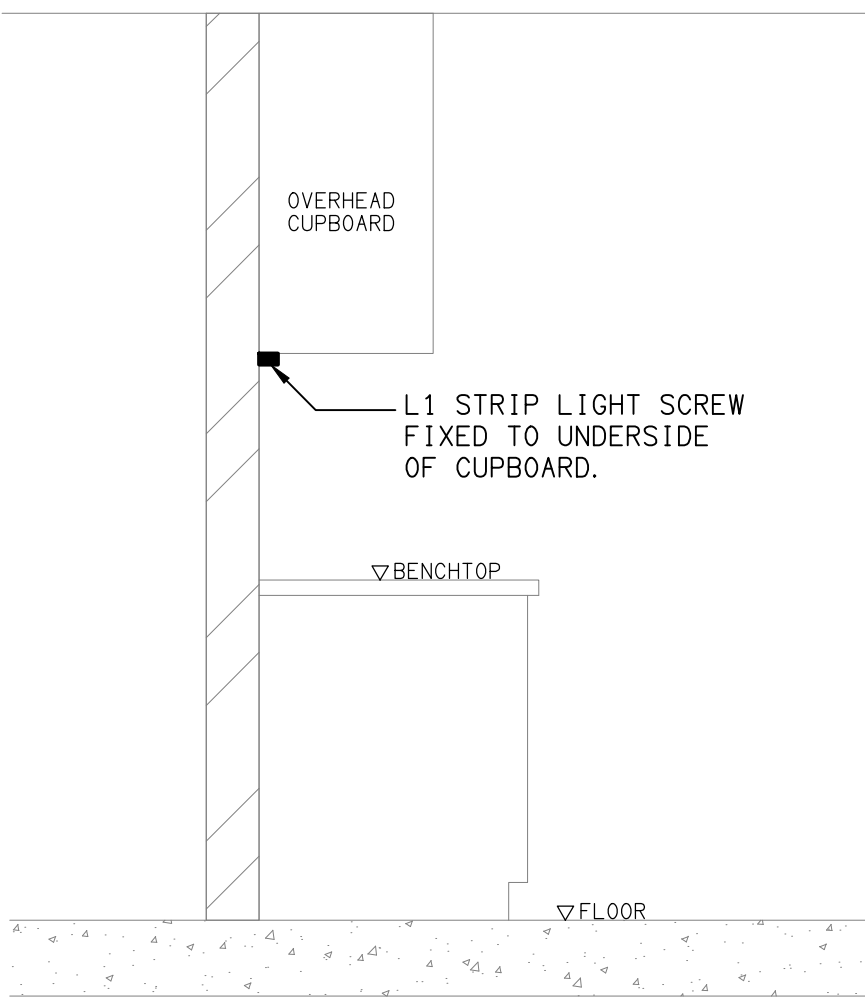
NOTES

- THE EMERGENCY LIGHT UNSWITCHED ACTIVE // GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
- 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.



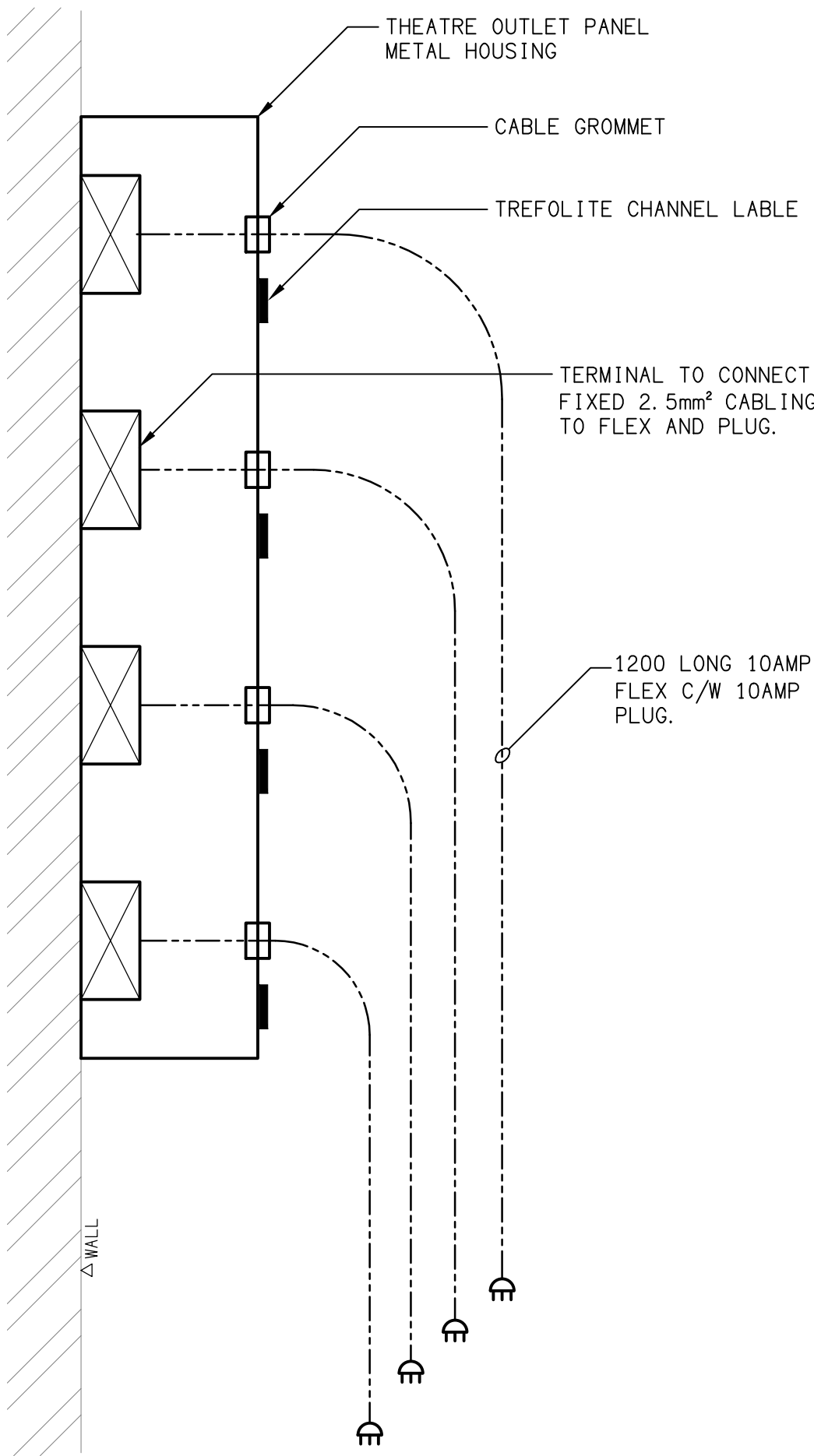
DETAIL

TYPICAL OUTLET MOUNTINGS
NOT TO SCALE



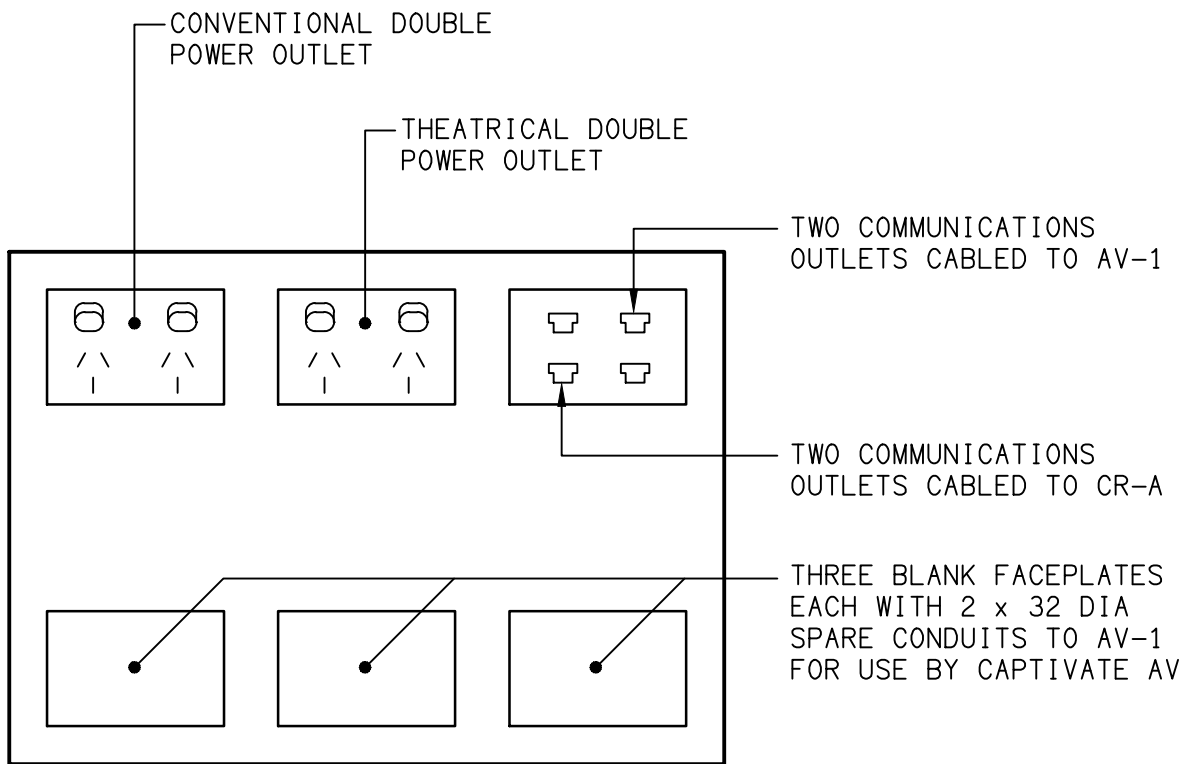
DETAIL

"L1" TYPE STRIP LIGHT MOUNTING
NOT TO SCALE



DETAIL

THEATRE OUTLET PANEL SECTION
NOT TO SCALE



DETAIL

FLOOR BOX FB1 CONFIGURATION
NOT TO SCALE

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PROJECT:
KINGS CHRISTIAN COLLEGE - PIMPAMA AUDITORIUM PIM19

198 PIMPAMA JACOBS WELL ROAD, PIMPAMA, QUEENSLAND

B	INFORMATION	11/03/2024
REV:	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES LEGEND & DETAILS

SCALE:	PROJECT NO:	DRAWING NO:	REVISION:
NOT TO SCALE AT A1	C3209a	E01	B

NOTES

1.0 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.
- UPDATE THE EXISTING AS BUILT DRAWINGS.
- UPDATE THE EXISTING MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS CABLING.
- 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.

CONFIRM THE POSITION OF ALL OUTLETS ON SITE WITH THE SCHOOL PRIOR TO ROUGH-IN.

UPDATE THE SCHOOLS EXISTING AS BUILT DOCUMENTS AND MAINTENANCE MANUAL TO INCLUDE THE NEW WORKS.

2.0 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 CONDUITS WILL NEED TO BE INCLUDED WITHIN THE PRECAST PANELS. 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.

ALL WORK IS TO BE UNDERTAKEN IN SUCH A MANNER THAT THE OPERATION OF THE REMAINING SCHOOL AREAS ARE NOT UNDULY EFFECTED BY THE WORKS.

3.0 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 PROJECT MANAGER 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.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4.0 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 WORKPLACE, HEALTH AND SAFETY AUTHORITY.
- LOCAL FIRE AND RESCUE AUTHORITY.

5.0 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.

NOTES

6.0 POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW MCCB IN THE EXISTING COMMUNITY CENTRE MAIN SWITCHBOARD DB-C AND SUBMAIN TO A NEW DISTRIBUTION BOARD DB-B. PROVIDE THEATRE POWER OUTLETS CABLED TO A CUSTOM THEATRE OUTLET PANEL. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- EARTHING.
- NEW MCCB TO SUPPLY DB-B.
- NEW SUBMAINS FROM DB-C TO DB-B.
- DISTRIBUTION BOARD DB-B.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- THEATRE OUTLETS.
- THEATRE OUTLET PANEL.
- TESTING AND COMMISSIONING.
- SWITCHBOARD SHOP DRAWING.
- CABLE ACCESS WAYS FOR THE CAPTIVATE AV TO USE.
- REMOVAL OF ALL EXISTING POWER SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

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.

REFER TO THE DISTRIBUTION BOARD SCHEDULE FOR ADDITIONAL REQUIREMENTS AND CIRCUIT DETAILS.

PROVIDE THE NEW DISTRIBUTION BOARD AS FOLLOW:

- IP44.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT 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 SCHNEIDER TO MATCH THE EXISTING.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.

7.0 LIGHTING

THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES INTERNAL LIGHTING TO ALL AREAS OF THE BUILDING BEING RENOVATED INCLUDING GENERAL LIGHTING, HOUSE LIGHTING, LIGHTING CONTROL, EMERGENCY AND EVACUATION LIGHTING AND THE LIGHTING SUB CIRCUIT WIRING. ALL OF THE LIGHT FITTINGS AND ACCESSORIES ARE TO BE PROVIDED AS PART OF THIS CONTRACT. THE AUDITORIUM LIGHTING IS TO BE PROVIDED WITH MANUAL DALI DIMMING AND CONTROL. ALL LIGHT SOURCES ARE TO BE SOLID STATE LED WITH A 5-YEAR MANUFACTURERS WARRANTY. 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.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.
- SINGLE POINT EMERGENCY LIGHTING SYSTEM.
- REMOVAL OF ALL EXISTING LIGHTING THAT BECOME REDUNDANT DUE TO THE WORKS.

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.

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.

8.0 COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE EXISTING COMMUNICATIONS RACK CR-A AND THE THEATRE RACK AV-2 VIA CAT 6 UTP CABLING. PROVIDE ADDITIONAL PATCH PANELS IN CR-A TO ACCOMMODATE THE NEW OUTLETS CABLED TO CR-A. PROVIDE PATCH PANELS WITHIN AV-1 TO ACCOMMODATE THE OUTLETS CABLED TO AV-1.

THE NEW PATCH PANELS ARE TO MATCH THE EXISTING USED IN CR-A. THE COMMUNICATIONS CABLING IS TO BE OF THE SAME EXISTING STRUCTURED CABLING SOLUTION USED AND BE PROVIDED WITH A MANUFACTURERS 15 YEAR WARRANTY.

PROVIDE A FOBOT IN AV-2 AND AV3 CONNECTED TOGETHER VIA A 6 CORE SINGLE MODE LC TERMINATED FIBRE.

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

- CAT 6 COMMUNICATIONS OUTLETS.
- CAT 6 CABLING.
- PATCH PANELS.
- FOBOTS.
- OPTICAL FIBRE CABLE CONNECTION AV-1 TO AV-3.
- LABELLING.
- TESTING AND COMMISSIONING.
- TEACHING WALL (Ax) POINTS AND ASSOCIATED CABLING.
- REMOVAL OF ALL EXISTING COMMUNICATIONS SERVICES THAT BECOME REDUNDANT DUE TO THE WORKS.

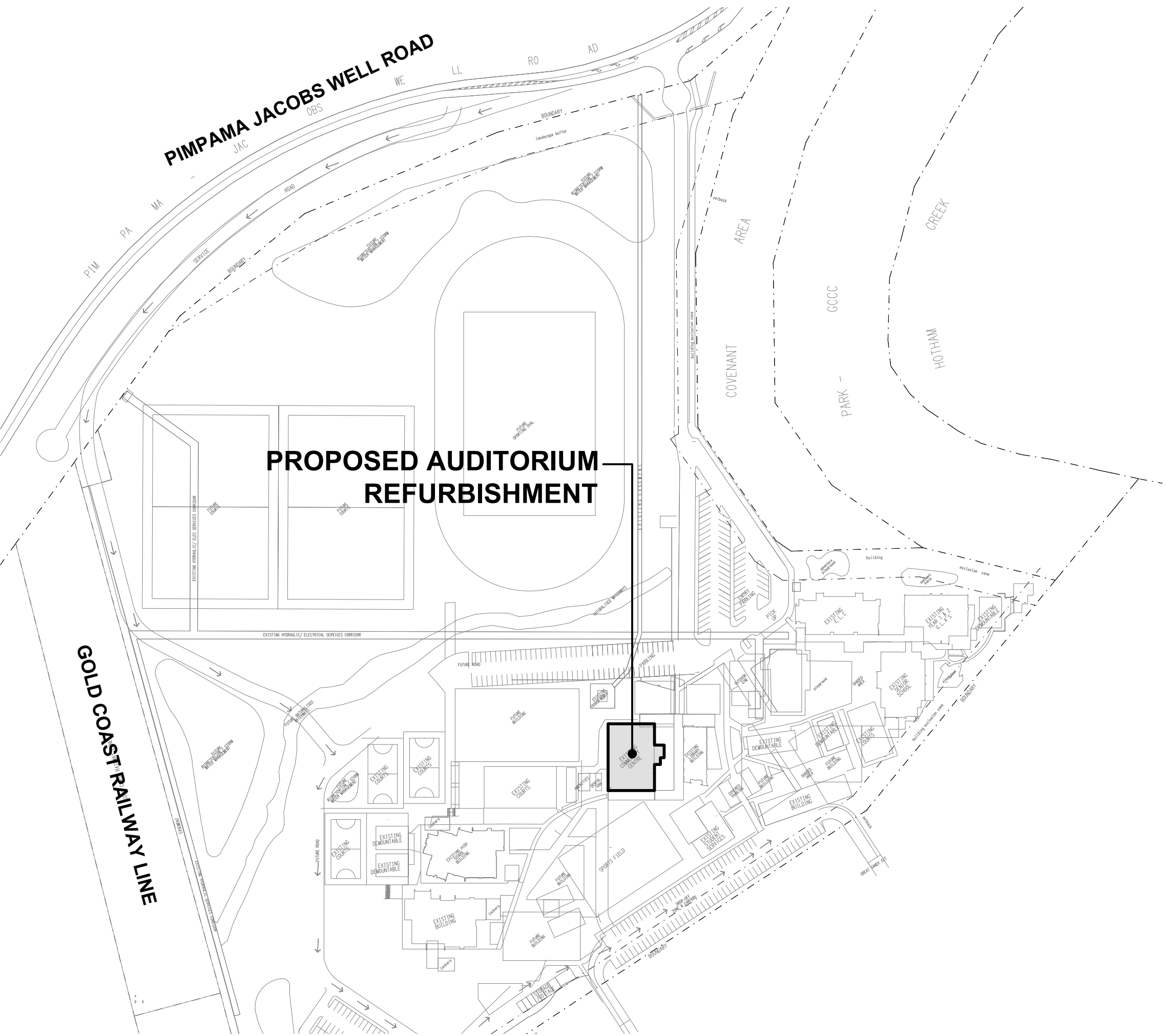
ALL COMMUNICATIONS CABLING IS TO BE UNDERTAKEN BY AN ACMA LICENCE HOLDER. THE PATCH LEADS, FLY LEADS, POE SWITCH AND UPS WILL BE PROVIDED BY THE SCHOOL.

THE THEATRE RACKS AV-1, AV-2 AND AV-3 WILL BE PROVIDED BY CAPTIVATE AV.

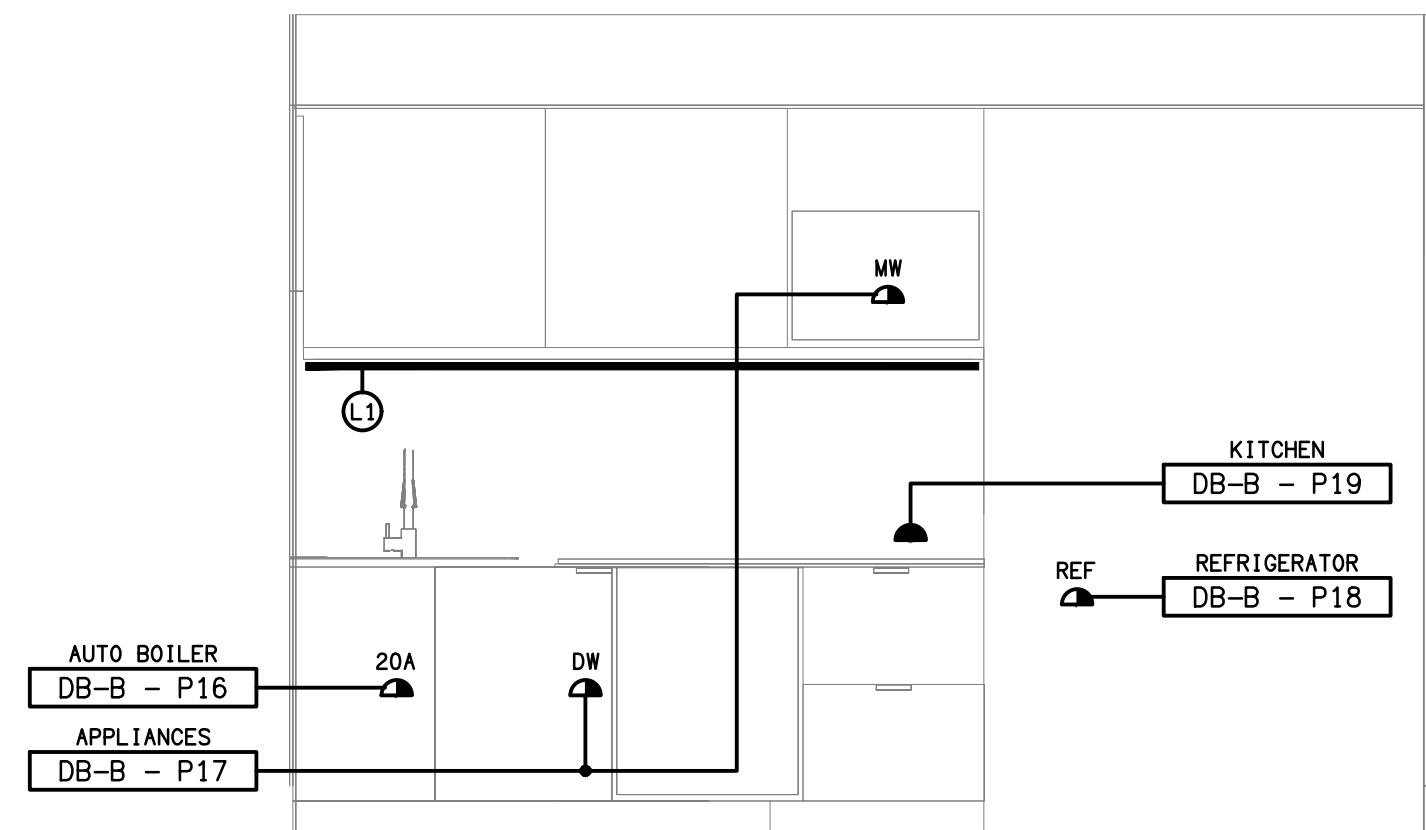
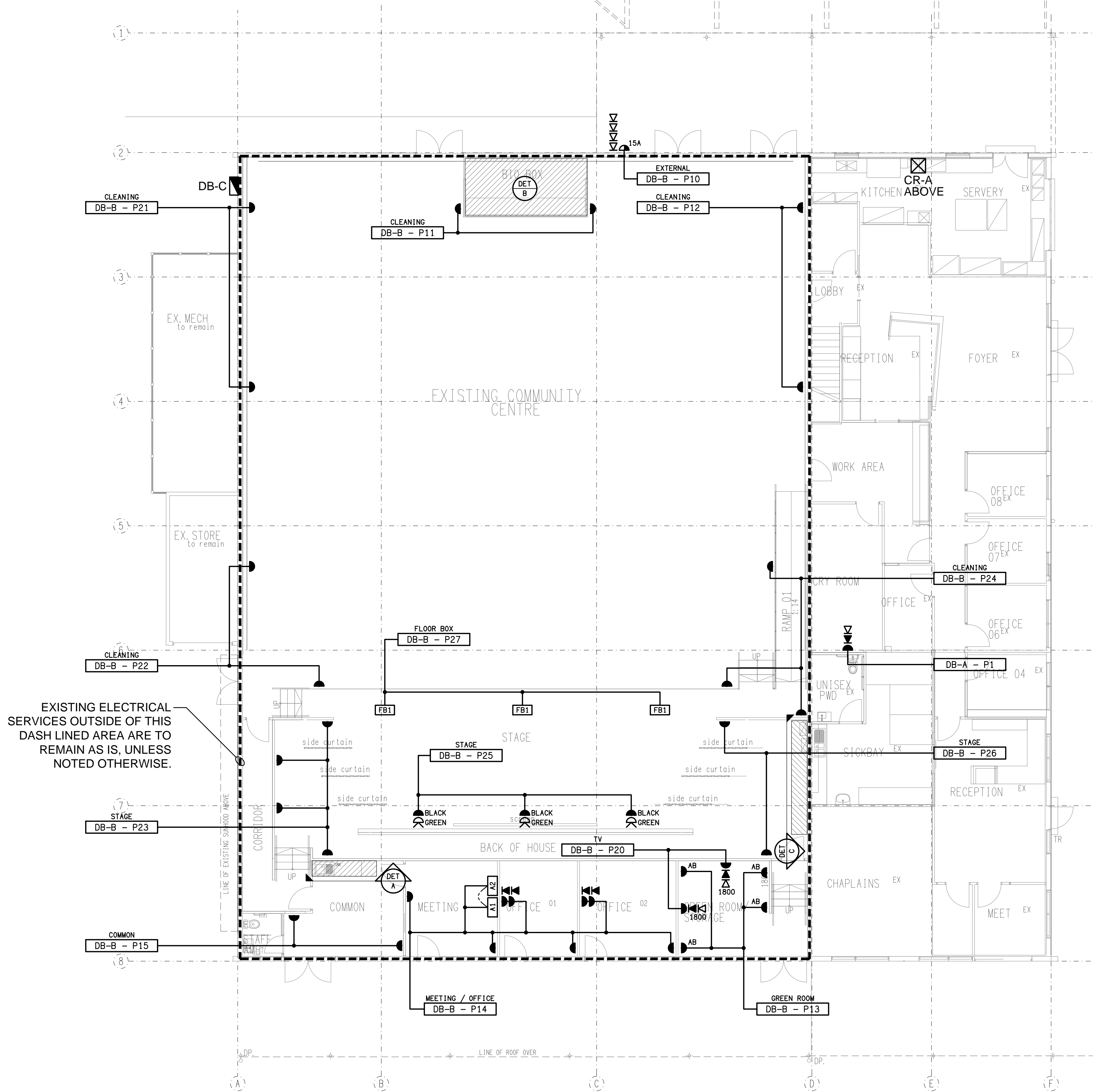
NOTES

9.0 ABBREVIATIONS

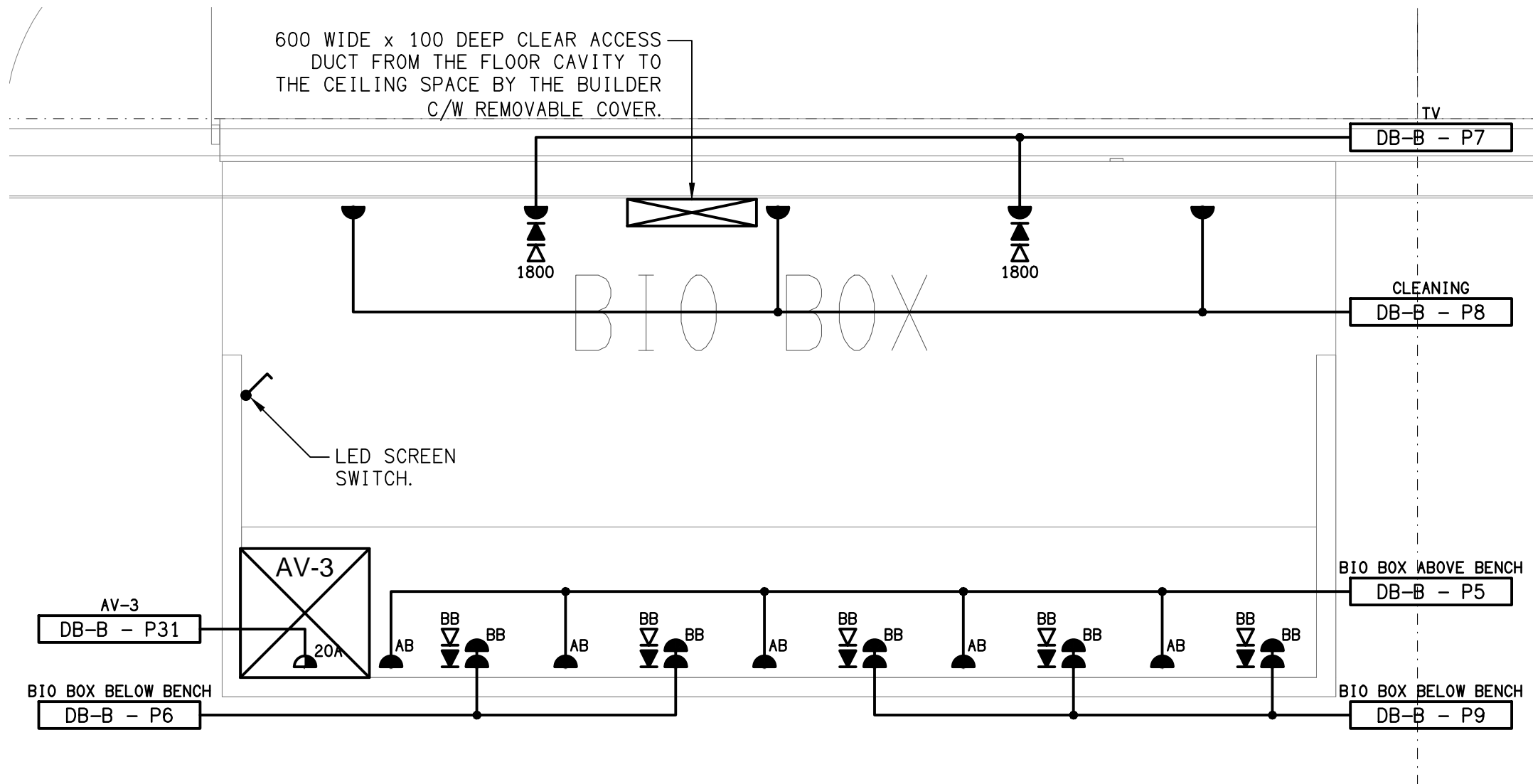
- A - AMP CURRENT RATING
- AB - MOUNT ABOVE BENCH.
- AFFL - ABOVE FINISHED FLOOR LEVEL.
- BB - MOUNT BELOW BENCH.
- BH - MOUNT ON BULKHEAD.
- CEIL - MOUNT ON CEILING.
- CS - MOUNT WITHIN CEILING SPACE.
- C/W - COMPLETE WITH.
- DW - DISHWASHER.
- MCCB - MOULDED CASE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.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



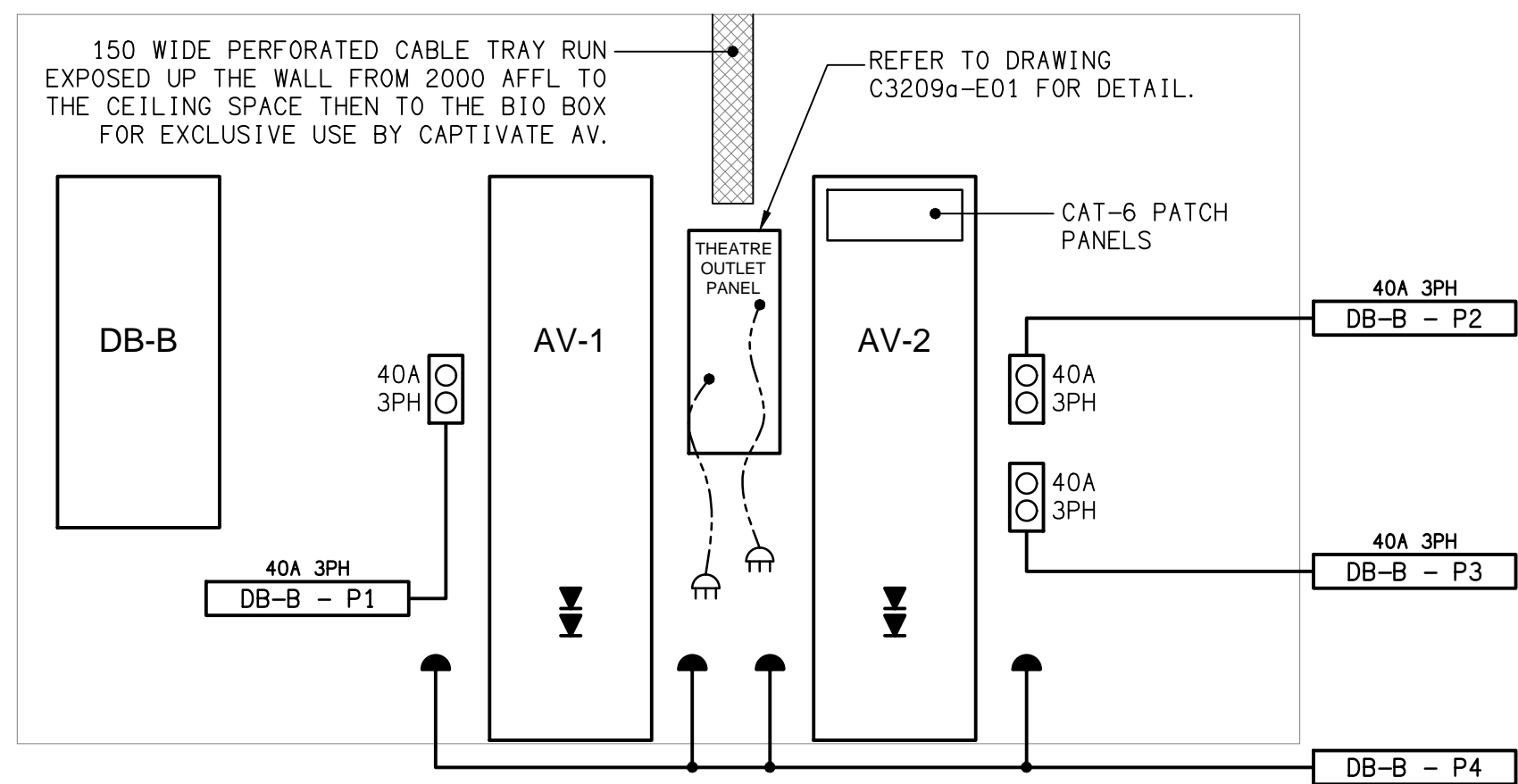
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TRADING AS: ELECTRICAL DESIGN GROUP		USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au		198 PIMPAMA JACOBS WELL ROAD, PIMPAMA, QUEENSLAND		DRAWING: ELECTRICAL SERVICES NOTES & SITE PLAN	
ALL DIMENSIONS TO BE VERIFIED ONSITE.						SCALE: 1:2000		PROJECT NO: C3209a	
						AT A1		DRAWING NO: E02	
								REVISION: A	



DETAIL A
COMMON KITCHENETTE ELEVATION
SCALE 1:25



DETAIL B
BIO BOX FLOOR PLAN
SCALE 1:25



DETAIL C
STAGE EQUIPMENT WALL ELEVATION
SCALE 1:25

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PROJECT:
**KINGS CHRISTIAN COLLEGE - PIMPAMA
AUDITORIUM PIM19**

198 PIMPAMA JACOBS WELL ROAD, PIMPAMA, QUEENSLAND

A	INFORMATION	07/03/2024
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
FLOOR PLAN**

SCALE:
1:100

AT A1

PROJECT NO:
C3209a

DRAWING NO:
E03

REVISION:
A

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

MOUNT THESE OUTLETS ON THE CEILING WITH THEIR POSITIONS TO BE CONFIRMED WITH THE LED SCREEN INSTALLER.

CONTROL THESE CIRCUITS VIA A MANUAL LED SCREEN SWITCH LOCATED IN THE BIO BOX ROOM.

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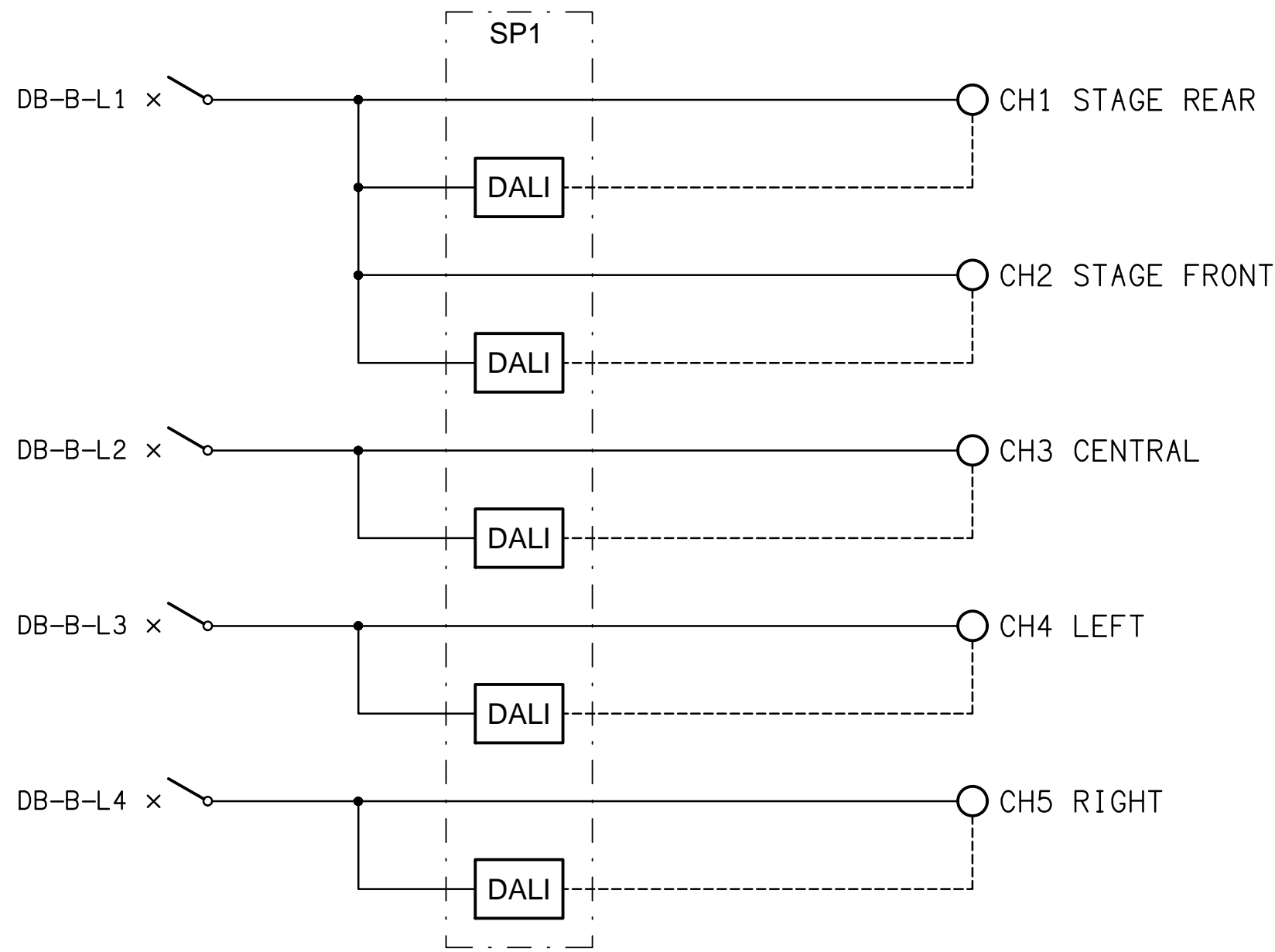
PROJECT:
KINGS CHRISTIAN COLLEGE - PIMPAMA AUDITORIUM PIM19

198 PIMPAMA JACOBS WELL ROAD, PIMPAMA, QUEENSLAND

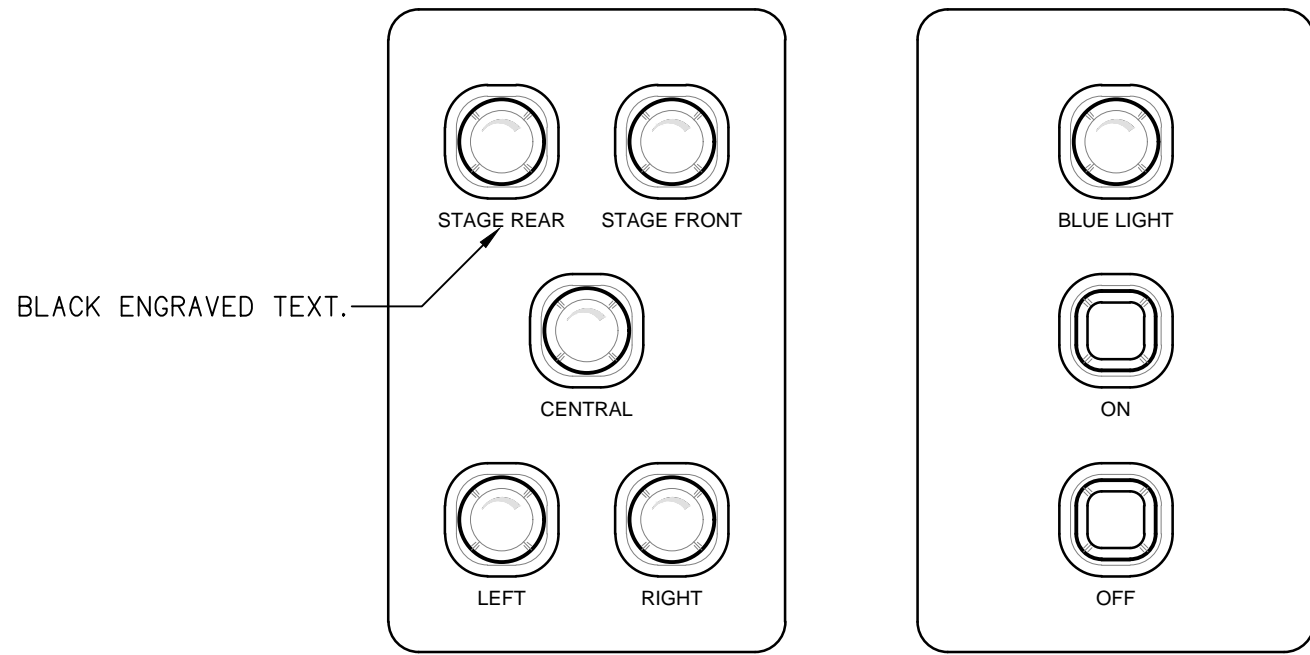
A	INFORMATION	07/03/2024
REV.	DESCRIPTION:	DATE:

DRAWING:
ELECTRICAL SERVICES REFLECTED CEILING PLAN

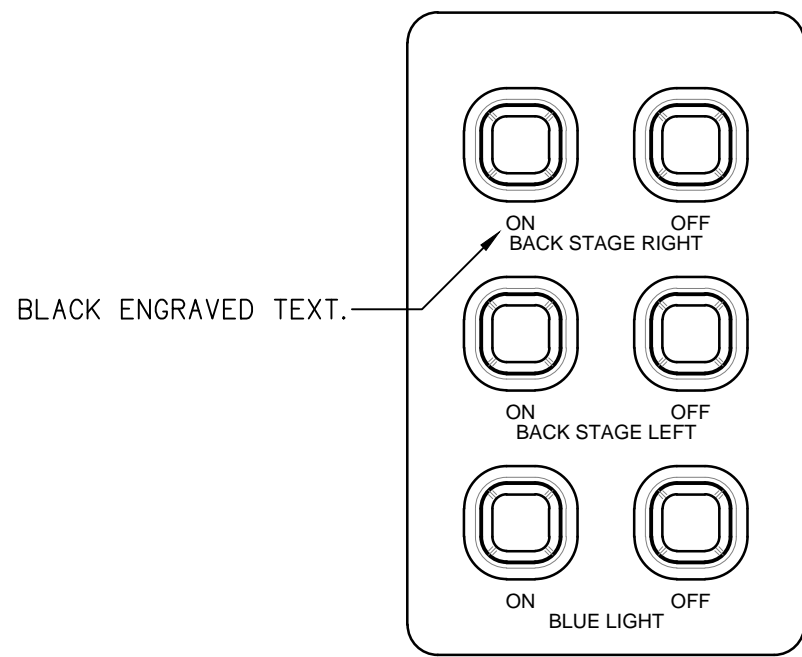
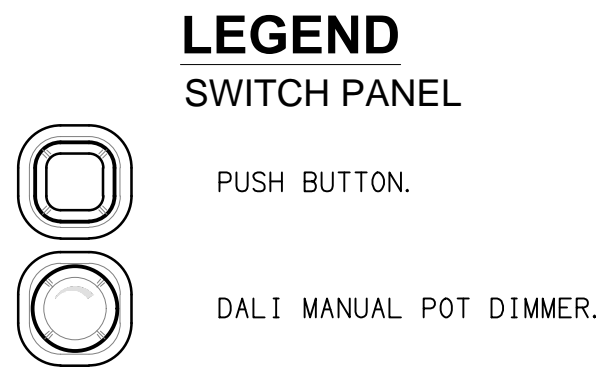
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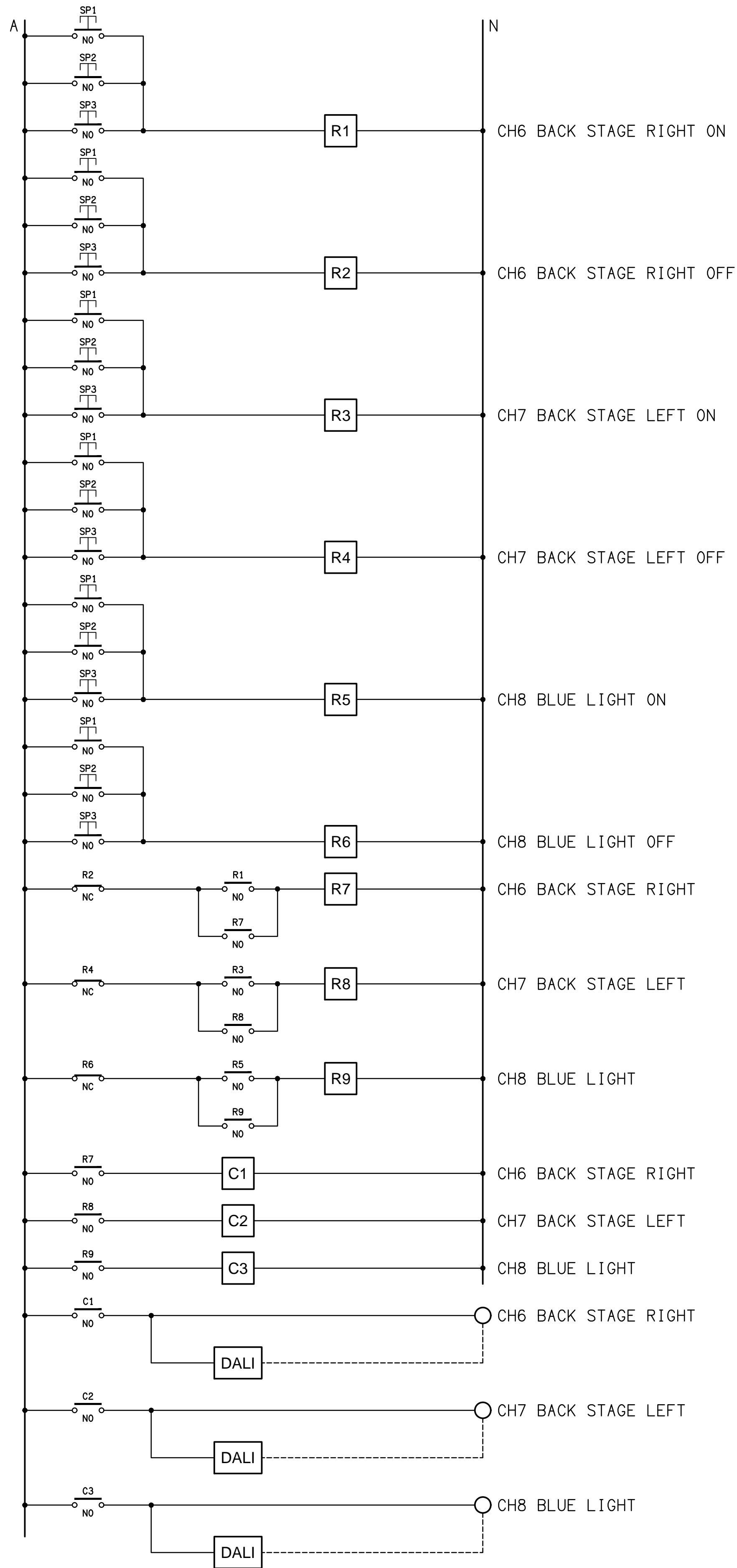
SCHEMATIC
SP1 LIGHTING CONTROL
NOT TO SCALE



DETAIL A
SP1 LIGHTING CONTROL ELEVATION
NOT TO SCALE



DETAIL A
SP2 & SP3 LIGHTING CONTROL ELEVATION
NOT TO SCALE



SCHEMATIC
LIGHTING CONTROL
NOT TO SCALE