



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

P.O. Box 15, SHERWOOD Q. 4075

Phone: (07) 3278 4375

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

C3474a - KINGS CHRISTIAN COLLEGE - CHAMBERS FLAT, SENIOR SCHOOL CHA12

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ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION A - 18 DECEMBER 2025

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	18									
	MONTH	12									
	YEAR	25									
	REASON FOR ISSUE	P									
A = APPROVAL C = CONSTRUCTION N = COORDINATION P = PRELIMINARY T = TENDER											

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DOCUMENTS				REVISION							
C3474a-E01.dwg	LEGEND & DETAILS	A									
C3474a-E02.dwg	SCHEMATICS	A									
C3474a-E03.dwg	NOTES	A									
C3474a-E04.dwg	SITE PLAN	A									
C3474a-E05.dwg	GROUND LEVEL FLOOR PLAN	A									
C3474a-E06.dwg	GROUND LEVEL REFLECTED CEILING PLAN	A									
C3474a-E07.dwg	LEVEL 1 FLOOR PLAN	A									
C3474a-E08.dwg	LEVEL 1 REFLECTED CEILING PLAN	A									
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C3474a-0004.xls	DISTRIBUTION BOARD DB-12P SCHEDULE										
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C3474a-0001.zip	FITTING & OUTLET DATASHEETS										



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www.edg.net.au/links.html

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L2	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2400 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L3	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2000 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L4	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 1000 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L5	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 1800 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L6	22W 4000K LED	SURFACE MOUNTED CAN 55 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION LANO CORBEL 1440SM- VWFL-4K-22W	A



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L7	22W 4000K LED	RECESSED 52 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1401-4K-22W	A
L8	28W 4000K LED	600 X 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A SURFACE MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION PHANTOM 600X600 88 SERIES 28W C/W SCREW FREE SURFACE KIT	A
L9	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 2000 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L10	4000K LED 17.2W/M IP20 24V DC LED STRIP	ROD SUSPENDED 3600 LONG EXTRUSION LEVEL WITH THE UNDERSIDE OF THE SUSPENDED ACOUSTIC PANELS. PROVIDE THE EXTRUSION WITH AN OPAL DIFFUSER AND ALL NECESSARY ACCESSORIES. PROVIDE A DRIVER IN A REMOTE CONCEALED POSITION NOTED ON THE AS CONSTRUCTED DRAWINGS. IT IS ACCEPTABLE TO SUPPLY MULTIPLE L3 FITTINGS FROM A SINGLE DRIVER IF IT IS APPROPRIATELY SIZED.	BLACK EXTRUSION AND SUSPENSION	M-ELEC ML-ALUSUS-K-V3 + ML-VL-17.2-.NW	A
L11	880LM /M 4000K 24V LED	LED STRIP LIGHT IN A SCREW FIXED EXTRUSION C/W OPAL DIFFUSER MOUNTED ON THE CEILING PELMET / BULKHEAD AS PER THE ARCHITECTURAL DETAIL. PROVIDE A REMOTE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION NOTED ON THE AS CONSTRUCTED DOCUMENTS.	NATURAL	MELEC ML-ALU-1407-2M	A
L12	13W 4000K LED	RECESSED 41 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1400-4K-13W	A
L13	13W 4000K LED	RECESSED 40 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION CORBEL 1410-4K-13W	A
L14	8W 4000K LED	RECESSED 47 DEG BEAM DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION MYLO 1004-WFL-4K-8W	A
L15	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND PRESENCE DETECTION SENSOR	LIGHT GREY	GAMMA STORM 1558-CCT-36W-MS	A

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L16	36W LED 4000K	1200 LONG SURFACE MOUNTED IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR	LIGHT GREY	GAMMA STORM 1558-CCT-36W-MS	A
L17	28W 4000K LED	SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER	BLACK TRIM	GAMMA ILLUMINATION MAXIMUS 1355-4K-28W	A
L18	28W 4000K LED	SURFACE MOUNTED 109 DEG BEAM BUNKER C/W INTEGRAL DRIVER	BLACK TRIM	GAMMA ILLUMINATION MAXIMUS 1355-4K-28W	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE SF1LEDP	A
E2	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT MOUNT THE E2 FITTING IN A CUSTOM SURFACE MOUNTED CAN SUCH THAT THE CAN IS LEVEL WITH THE UNDERSIDE OF THE ADJACENT SUSPENDED ACOUSTIC PANEL.	BLACK FITTING AND BLACK MOUNTING CAN	STANILITE SF1LEDP PLUS CUSTOM MOUNTING CAN	A
E3	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	BLACK	STANILITE SF1LEDP BLACK	A
E4	LED	EMERGENCY LIGHT: SURFACE MOUNTED RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D40 - C90-D40.	WHITE	STANILITE COSPITFIREBOX	
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
EX WP	LED	EXIT LIGHT: MAINTAINED WEATHER PROOF 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-D1.25- C90-D2	WHITE	STANILITE WPELLBE	A
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.			A



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
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
SWITCH PANEL SPx		MULTIGANG SWITCH PANEL CONFIGURED AS PER THE LIGHTING CONTROL SCHEMATIC. MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000 SERIES 30USM	A
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	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	CLIPSAL C2000 SERIES	A
DRINK FOUNTAIN OUTLET (DF)		IP54 WEATHERPROOF SINGLE 10 AMP POWER OUTLET C/W COVER FLAP OVER SOCKET MOUNTED WITHIN THE DRINK FOUNTAIN HOUSING.	-	CLIPSAL WSCF227F	A
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	A
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"	A
RECESS KIT (RK)		VERTICALLY ORIENTATED WALL BOX TO ALLOW THE OUTLET TO BE RECESSED WITHIN THE WALL CAVITY	WHITE	REPELEC RECWP1WH	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



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TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
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 "C2000 SERIES"	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
MSB		EXISTING MAIN SWITCHBOARD TO BE PROVIDED WITH A NEW MCCB TO SUPPLY DB-12 AS PER THE POWER SCHEMATIC AND ASSOCIATED NOTES.			A
DB-12		DISTRIBUTION BOARD DB-10. PROVIDE A NEW DISTRIBUTION BOARD DB-12 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.			A
DB-12P		PROVIDE A NEW DISTRIBUTION BOARD DB-12P AS PER THE DB-12P 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.			A
DB-12L		PROVIDE A NEW DISTRIBUTION BOARD DB-12L AS PER THE DB-12L 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.			A
MSSB-12		NEW MSSB PROVIDED AS PART OF THE MECHANICAL SERVICES SUB CONTRACT. PROVIDE A MCCB IN THE MSB AND SUBMAIN AS PER THE POWER SCHEMATIC TO SUPPLY THE MSSB-12.			A
M1		SUPPLY AUTHORITY CODE COMPLIANT LV MAXIMUM DEMAND TARIFF METER. TO REMAIN AS IS			A
M2		EXISTING PRIVATE MULTI FUNCTION METER TO REMAIN AS IS.			A
MTS		EXISTING MANUAL TRANSFER SWITCH TO REMAIN AS IS.			A
CT		EXISTING SOLAR PROTECTION CTS TO REMAIN AS IS.			A
SM		EXISTING SOLAR NETWORK SMART METER TO REMAIN AS IS.			A
CABLE TRAYS		PROVIDE THE CABLE TRAYS WITH A REMOVABLE COLOUR BOND HAT SECTION COVER			A



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SECURITY EQUIPMENT		SECURITY EQUIPMENT TO BE PROVIDED BY THE SCHOOL			A
COMMUNICATIONS RACK CR-4		EXISTING COMMUNICATIONS RACK TO BE USED TO ACCOMMODATE THE NEW FIBRE CABLE. UPGRADE THE FIBRE AS REQUIRED.			A
COMMUNICATIONS RACK CR-12		PROVIDE CR-12 AS A FREE STANDING 41 RU MINIMUM 800 DEEP COMMUNICATIONS CONNECTED TO CR-1 VIA AN UNDERGROUND LOOSE TUBE GEL FILLED 12 CORE OS2 OPTICAL FIBRE CABLES FULLY TERMINATED WITH SC CONNECTORS. PROVIDE CR-12 WITH ALL NECESSARY PATCH PANELS TO ACCOMMODATE THE COMMUNICATIONS OUTLETS.			A
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 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
CAT 6A STP COMMUNICATIONS OUTLET		RJ45 CAT-6A STP COMMUNICATIONS OUTLET, CABLED BACK TO A CAT 6 PATCH PANEL IN COMMUNICATIONS RACK CR-12 VIA 4-PAIR CAT-6A STP 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
PIT 1		EXISTING POWER PIT UNDER THE MAIN SWITCHBOARD TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN.			A
PIT 2		EXISTING POWER AND COMMUNICATIONS PITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAIN / FIBRE CABLE.			A
CONDUIT C1		EXISTING POWER AND COMMUNICATIONS CONDUITS TO REMAIN AS IS AND BE UTILISED TO ACCOMMODATE THE NEW SUBMAINS / FIBRE CABLE.			A
CONDUIT C2		PROVIDE 4 X 100 DIA POWER CONDUITS UNDERGROUND FROM THE POWER PIT AND 4 X 50 DIA COMMUNICATIONS CONDUITS UNDERGROUND TO THE COMMUNICATIONS PIT TO THE ELECTRICAL RISER. POSITION THE POWER CONDUITS SUCH THAT THEY HAVE 50MM BETWEEN EACH CONDUIT. PROVIDE PHOTOS OF THE CONDUITS IN PLACE PARTIALLY COVERED BY BEDDING SAND PRIOR TO BACK FILLING FOR APPROVAL.			A
FIRE INDICATOR PANEL (FIP)		AS 1670 COMPLAINT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE			A
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.			A
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.			A
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.			A
SMOKE DETECTOR		SURFACE MOUNTED WHITE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %.			A

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



































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
ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 18 DECEMBER 2025

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
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.			A
THERMAL DETECTOR		SURFACE MOUNTED WHITE AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR WHITE.			A
DOOR INTERFACE		INTERFACE THE FIRE ALARM SYSTEM INTO THE DOOR TO UNLOCK UPON ALARM			A
VISUAL ALARM		FIRE ALARM STROBE LIGHT AS PER AS1670.1			A

	ELECTRICAL SERVICES SWITCHBOARD.
	SWITCHBOARD / CONTROL PANEL NOT PROVIDED AS PART OF THE ELECTRICAL SUBCONTRACT.
	SINGLE POWER OUTLET.
	DOUBLE POWER OUTLET.
	SPECIAL PURPOSE POWER OUTLET.
	SINGLE PHASE ISOLATOR.
	THREE PHASE ISOLATOR.
	JUNCTION BOX AS NOTED.
	ELECTRICAL CABLE TRAY, TYPE AS NOTED.
	CONDUIT ROUTE.
	x DENOTES CONDUIT TYPE.
	ELECTRICAL PIT, TYPE AS NOTED.
	HAND DRYER CONNECTION.
	LIGHTING PRESENCE DETECTOR SWITCH.
	ONE-WAY LIGHT SWITCH.
	TWO-WAY LIGHT SWITCH.
	LIGHTING SWITCHPANEL, TYPE x.
	CIRCUIT LINE.
	SWITCH LINE.
	POWER CIRCUIT DESIGNATION. DENOTES DB AND CIRCUIT.
	ELECTRICAL EQUIPMENT AS NOTED.
	OUTLET MOUNTED WITHIN RECESS KIT.
	CAT-6 UTP RJ45 COMMUNICATIONS OUTLET.
	CAT-6A STP RJ45 COMMUNICATIONS OUTLET.
	REFER TO DETAIL NOTED FOR THE AREA SHOWN HATCHED. ADDITIONAL OUTLETS & FITTINGS MAY BE SHOWN ON DETAIL.
	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.
	RETAIL METER.
	PRIVATE MULTI FUNCTION METER.
	SOLAR NETWORK PROTECTION CTs.

	SOLAR NETWORK PROTECTION SMART METER (WIRELESS).
	MANUAL TRANSFER SWITCH.
	E1: RECESSED LED EMERGENCY LIGHT, WHITE.
	E2: CUSTOM SURFACE CAN MOUNTED LED EMERGENCY LIGHT, BLACK.
	E3: RECESSED LED EMERGENCY LIGHT, BLACK.
	E4: SURFACE LED EMERGENCY LIGHT, WHITE.
	EX: EMERGENCY LED EXIT LIGHT, WHITE.
	EX WP: WEATHERPROOF EMERGENCY LED EXIT LIGHT, WHITE.
	Lx: LIGHT FITTING C/W NON-MAINTAINED EMERGENCY BATTERY PACK. TYPE AS NOTED.
	L1: 2800 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L2: 2400 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L3: 2000 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L4: 1000 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L5: 1800 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L6: SURFACE MOUNTED CAN DOWNLIGHT.
	L7: RECESSED DOWNLIGHT.
	L8: 600 x 600 SURFACE MOUNTED FLAT PLATE LED LIGHT.
	L9: 2000 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L10: 3600 LONG ROD SUSPENDED EXTRUSION LIGHT.
	L11: CEILING BULKHEAD LED STRIP LIGHT.
	L12: RECESSED DOWNLIGHT.
	L13: RECESSED DOWNLIGHT.
	L14: RECESSED DOWNLIGHT.
	L15: 1200 LONG SURFACE BATTEN C/W PRESENCE SENSOR.
	L16: 1200 LONG SURFACE BATTEN.
	L17: SURFACE MOUNTED BUNKER LIGHT.
	L18: SURFACE MOUNTED BUNKER LIGHT.
	AS1670 COMPLIANT FIRE INDICATOR PANEL INCORPORATING THE EWCIE AND FDCIE.
	SURFACE MOUNTED ADDRESSABLE AS7240.7 POINT SMOKE DETECTORS WITH A PERFORMANCE OF 6 TO 12 % OBS/M SET AT 7.8 %.
	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 REMOTE INDICATOR AND ACCESS BRACKET AS REQUIRED.
	SURFACE MOUNTED AS7240.5:2018 TYPE B SEALED FIXED TEMPERATURE ADDRESSABLE THERMAL DETECTOR WHITE.
	MAGNETIC DOOR HOLDER CONFIGURED TO RELEASE UPON ALARM. WHEN THE SECURITY SYSTEM IS ARMED AND VIA AN ADJACENT WHITE CLIPSAL C2000 PUSH BUTTON MOUNTED AT 1,000AFL. ENGRAVE THE PUSH BUTTON WITH BLACK TEXT "DOOR RELEASE". CONFIRM THE LOCATION OF THE PUSH BUTTON ON SITE WITH THE PROJECT MANAGER.
	SURFACE MOUNTED AS7240 COMPLIANT WHITE EMERGENCY EVACUATION SPEAKER C/W PLASTIC HOUSING.
	RECESSED AS7240 COMPLIANT EMERGENCY EVACUATION SPEAKER C/W WHITE PLASTIC GRILL.
	SURFACE MOUNTED WEATHERPROOF AS7240 COMPLIANT EVACUATION HORN SPEAKER.
	WALL MOUNTED FIRE ALARM STROBE TO AS1670-2018 AND AS7240.
	FITTING TO BE BLACK IN COLOUR.

STRUCTURE

SUSPENDED CEILING

CEIL

CS

BH

CONFIRM COLOUR OF ALL "CEIL" OUTLETS ON SITE.

PROVIDE A FLUSH RECESSED "FLOOR BOX" AS PART OF THE ELECTRICAL SUBCONTRACT.
SUBMIT DETAILS FOR APPROVAL.
COORDINATE THE RECESS WITH THE STRUCTURE ON SITE OBTAINING APPROVAL FROM THE STRUCTURAL ENGINEER.

WHEN INSTALLING THE "CS" OUTLET CONFIRM THE LOCATION OF THE CEILING ACCESS WITH THE BUILDER ON SITE.

CONFIRM COLOUR OF ALL "BULKHEAD" OUTLETS ON SITE.

NOTE
THE MOUNTING ARRANGEMENTS AND OUTLETS SHOWN ON THIS DETAIL ARE GENERIC AND MAY NOT BE REQUIRED ON THIS PROJECT.

CONFIRM THE CONCEALED CABLE ACCESS WITH THE BUILDER ON SITE.

BENCHTOP

AB

BB

WHEN NO HEIGHT IS SPECIFIED THE OUTLET IS TO BE MOUNTED 300mm AFFL.

FLOOR

FB

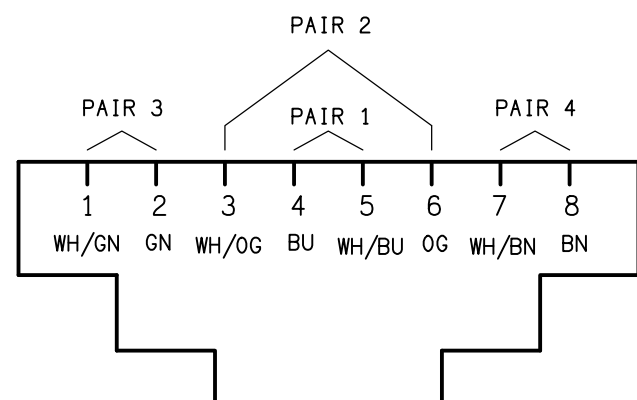
FLOOR

PROVIDE A RAISED STAINLESS STEEL FLOOR MOUNTED HOUSING FOR THE "FLOOR" MOUNTED OUTLET AS PART OF THE ELECTRICAL SUBCONTRACT.
SUBMIT DETAILS FOR APPROVAL.

DETAIL

TYPICAL OUTLET MOUNTINGS

NOT TO SCALE



SCHEMATIC

RJ45 PINOUT CONFIGURATION
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.

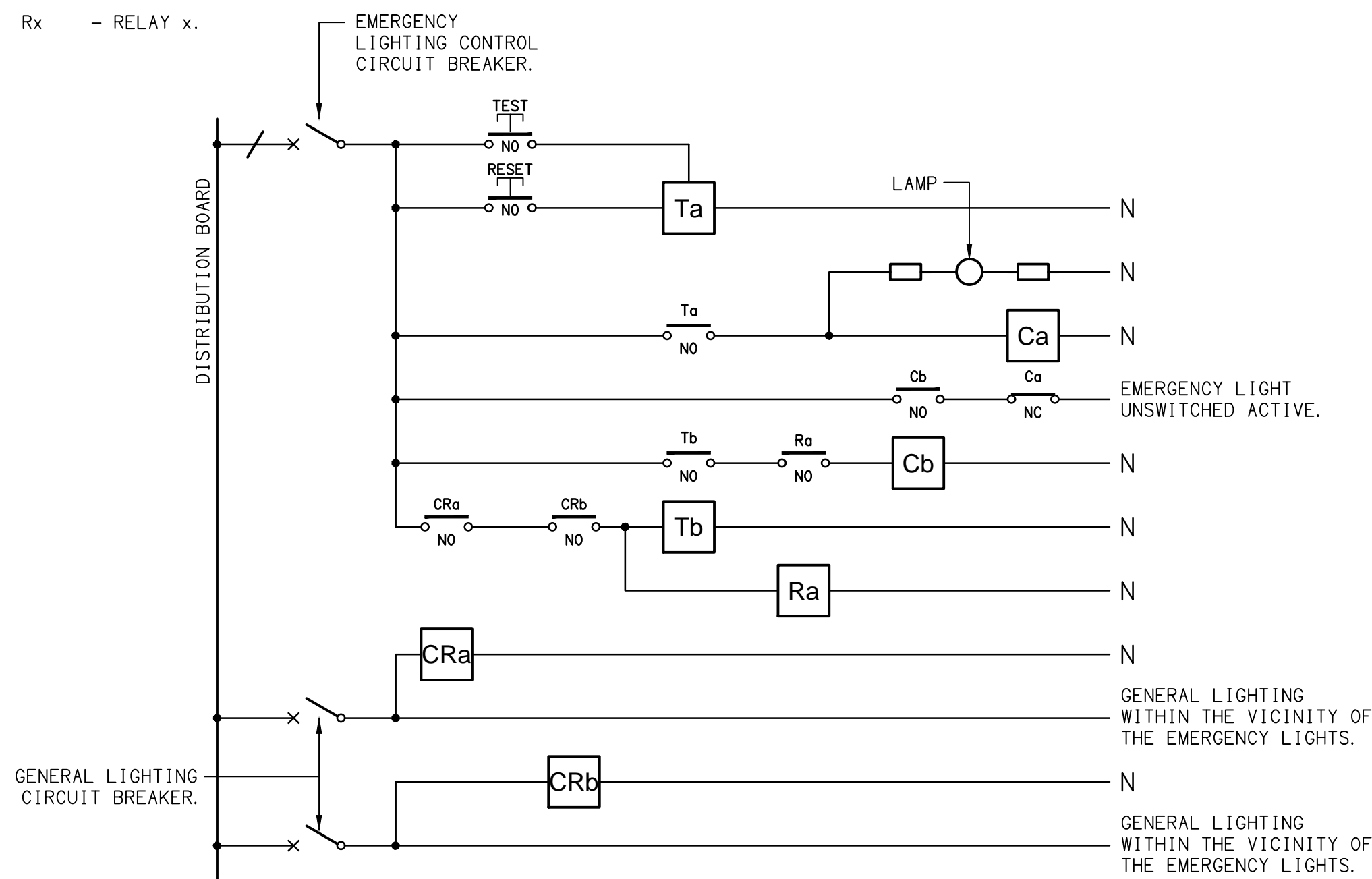
Tb - 15 MINUTE RUN-ON TIMER TO OPERATE UPON THE RETURN OF MAINS POWER.

Cx - CONTACTOR x.

CRx - CONTROL RELAY x.

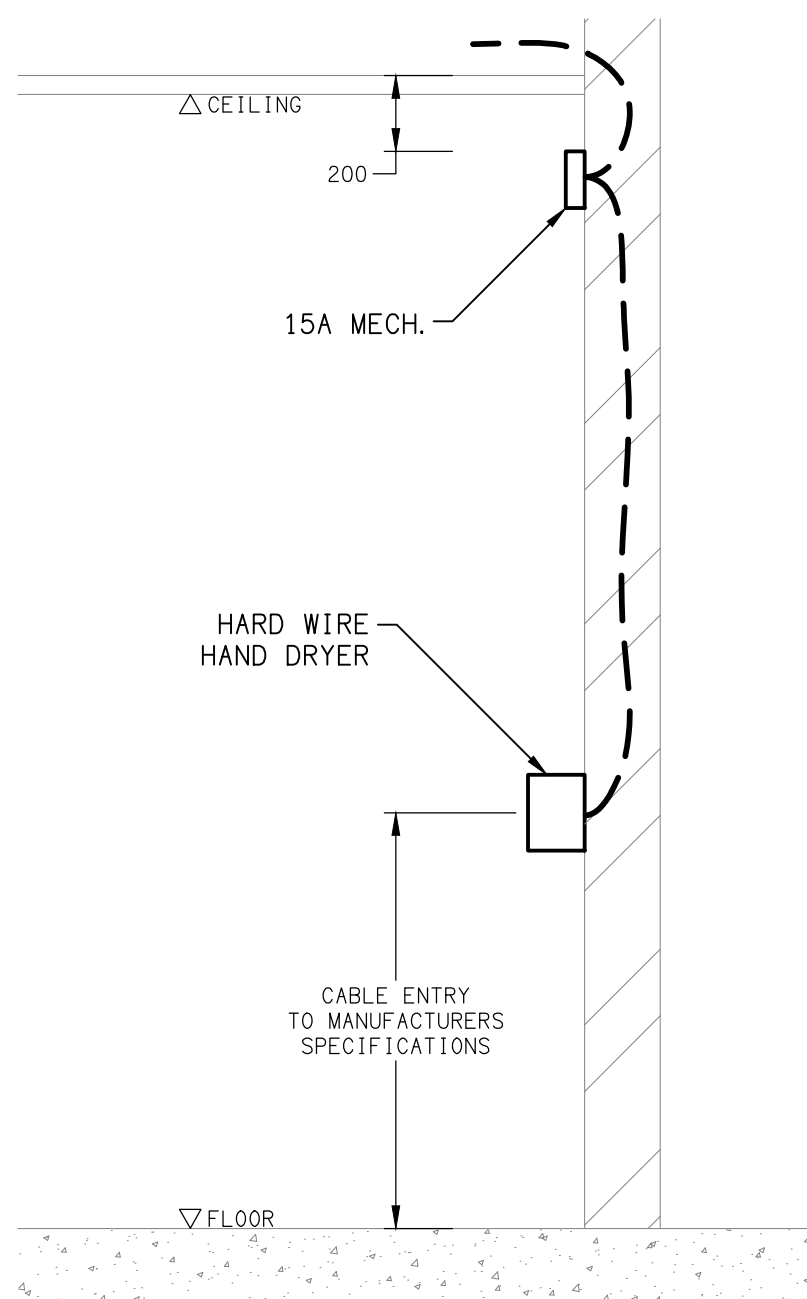
Rx - RELAY x.

EMERGENCY



SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE

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.



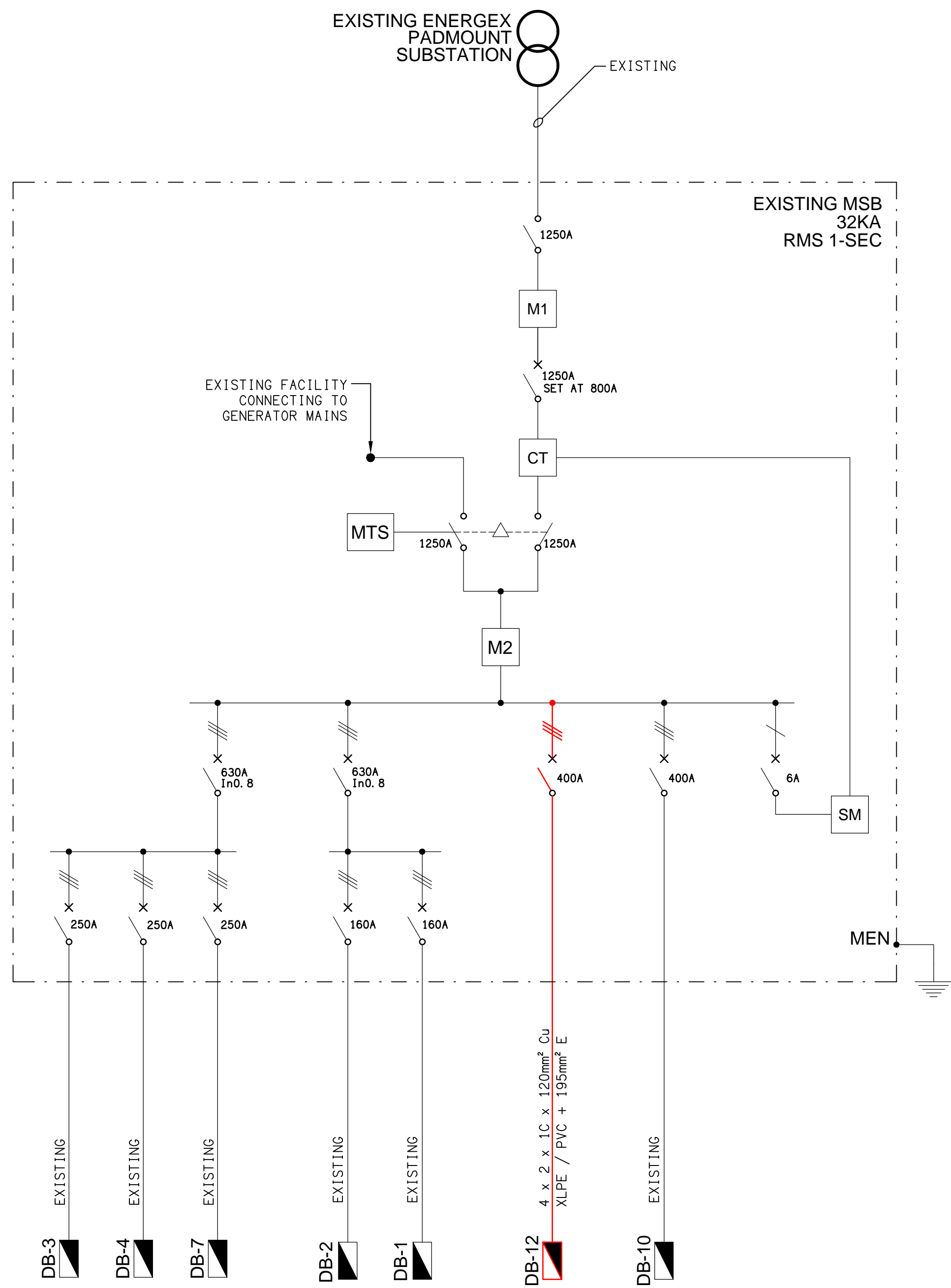
DETAIL

HAND DRYER CONNECTION

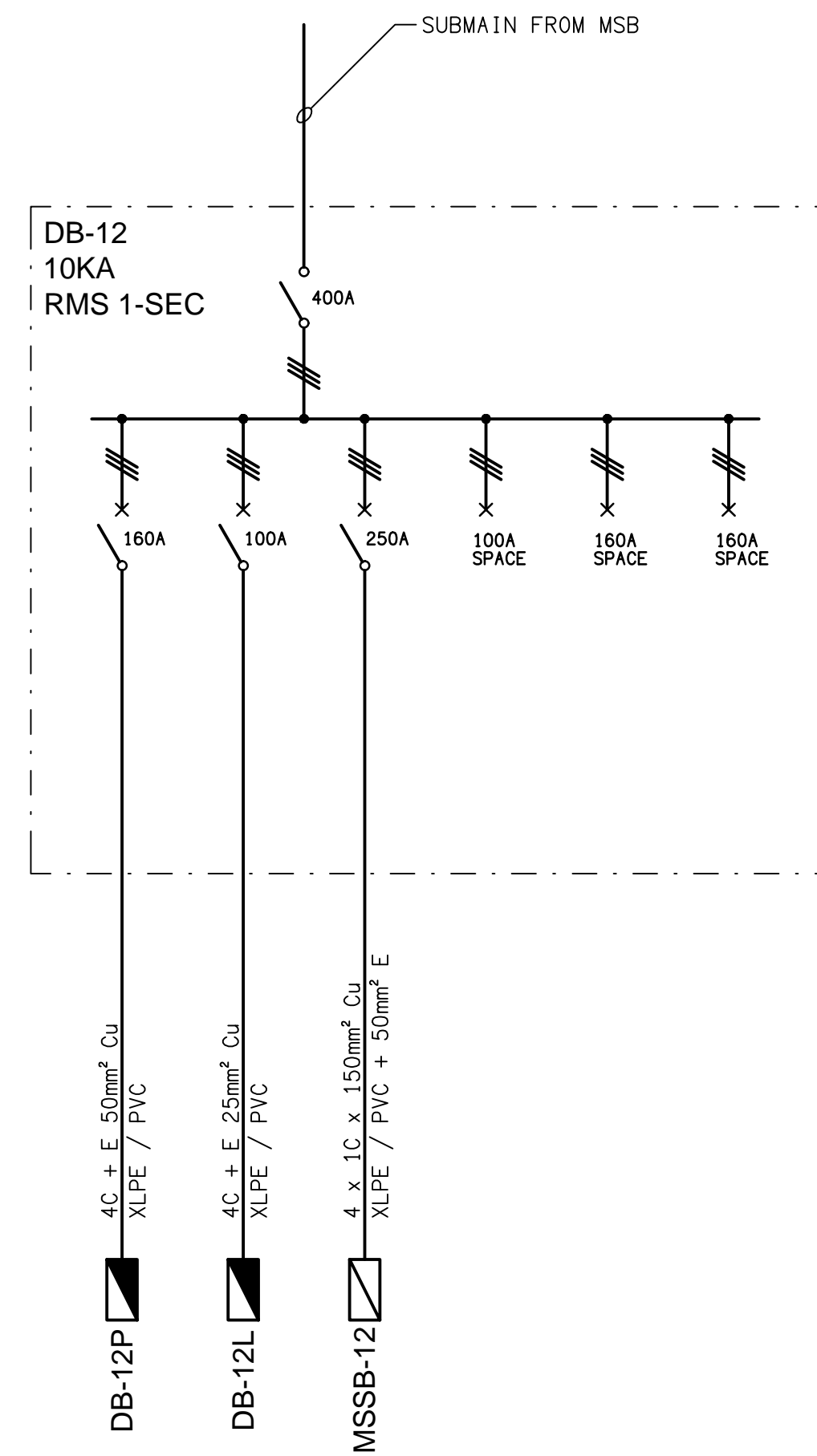
NOT TO SCALE

A	PRELIMINARY	18/12/2025
REV:	DESCRIPTION:	DATE:
DRAWING:		
ELECTRICAL SERVICES LEGEND & DETAILS		
SCALE:	PROJECT NO:	DRAWING NO:
NOT TO SCALE AT A1	C3474a	E01
		REVISION:
		A

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SCHEMATIC
MAIN SWITCHBOARD
NOT TO SCALE



SCHEMATIC
DB-12 ARRANGEMENT
NOT TO SCALE

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ELECTRICAL DESIGN GROUP
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BRISBANE GOLD COAST

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Web: www.edg.net.au

PROJECT:
KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, SENIOR SCHOOL CHA12

38-112 ANZAC AVENUE, CHAMBERS FLAT

A	PRELIMINARY	18/12/2025
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
SCHEMATICS**

SCALE:
NOT TO SCALE AT A1

PROJECT NO:
C3474a

DRAWING NO:
E02

REVISION:
A

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.
- UPDATE THE EXISTING AS BUILT DRAWINGS.
- UPDATE THE EXISTING MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.

POWER DISTRIBUTION.

- LIGHTING.
- COMMUNICATIONS CABLING.
- FIRE ALARM SYSTEM.
- 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 COLLEGES EXISTING AS BUILT DOCUMENTS AND MAINTENANCE MANUAL TO INCLUDE THE NEW WORKS.

2. WORKMANSHIP

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

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

CONCEAL ALL WIRING AND CONDUITS. EXPOSED CABLING OR CONDUITS ARE GENERALLY NOT ACCEPTABLE. IT IS NOTED THAT 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. STANDARDS

IRRESPECTIVE OF INFORMATION CONTAINED IN THE FIRE ALARM SYSTEM DOCUMENTS OR IN INSTRUCTIONS, IT IS THE FIRE ALARM SYSTEM SUB CONTRACTOR’S RESPONSIBILITY TO ENSURE ALL FIRE ALARM SYSTEM WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE FIRE ALARM SYSTEM 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.
- FIRE ENGINEERING REPORT.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- AS/NZS3000.
- AS3008.
- AS1670.1.
- WORKPLACE HEALTH AND SAFETY ACT.
- TELECOMMUNICATIONS ACT.
- ACMA REQUIREMENTS.

4. AUTHORITIES

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

- ACMA.
- LOCAL COUNCIL.
- LOCAL SUPPLY AUTHORITY.
- STATE GOVERNMENT WORKPLACE, HEALTH AND SAFETY AUTHORITY.
- LOCAL FIRE AND RESCUE AUTHORITY.

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS’ RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm² TWIN & EARTH STRANDED COPPER CONDUCTORS, PVC INSULATED 0.6/1kV V75 GRADE TO AS3174, PROTECTED BY A 20 AMP CIRCUIT BREAKER. ALL CONDUIT AND FITTINGS TO BE RIGID UPVC TO AS2053, UNLESS NOTED OTHERWISE.

NOTES

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES PROVIDING THE EXISTING MSB WITH A NEW MCCB TO SUPPLY THE NEW DISTRIBUTION BOARD DB-12 VIA A NEW UNDERGROUND SUB MAIN. PROVIDE DB-12 WITH MCCBS TO SUPPLY THE NEW DISTRIBUTION BOARD DB-12P AND DB-12L AND THE MECHANICAL SWITCHBOARD MSSB-12. THE ELECTRICAL COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- EARTHING.
- PROVIDE A NEW MCCB IN THE MSB.
- NEW SUBMAINS FROM THE MSB TO DB-12.
- DISTRIBUTION BOARDS DB-12, DB-12P AND DB-12L.
- SUBMAINS FROM DB-10 TO DB-12P, DB-12L AND MSSB-12.
- 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.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.
- SWITCHBOARD SHOP DRAWING.

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

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 COLLEGE.

7. LIGHTING

THE LIGHTING COMPONENT OF THIS CONTRACT INCLUDES INTERNAL LIGHTING TO ALL AREAS OF THE BUILDING, EXTERNAL LIGHTING, GENERAL 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. 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:

- INTERNAL AND EXTERNAL LIGHTING.
- EMERGENCY AND EXIT LIGHTING.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

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. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A NEW COMMUNICATION RACK CR-12 TO SUPPORT CAT 6 RJ45 OUTLETS CABLED TO MODULAR PATCH PANELS IN THE COMMUNICATIONS RACK CR-12 VIA CAT 6 UTP CABLING. PROVIDE A NEW 12 CORE OS1 GEL FILLED UNDERGROUND OPTICAL FIBRE CABLE FROM THE EXISTING COMMUNICATIONS RACK CR-4 TO A NEW FIBOT IN CR-12. THE COMMUNICATIONS CABLING IS TO BE OF THE SAME EXISTING STRUCTURED CABLING SOLUTION USED AND BE PROVIDED WITH A MANUFACTURERS 15 YEAR WARRANTY.

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.
- COMMUNICATIONS RACK CR-12.
- PATCH PANELS.
- FIBOT.
- OPTICAL FIBRE CABLE CONNECTION CR-4 TO CR-12.
- LABELLING.
- TESTING AND COMMISSIONING.

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.

NOTES

9. FIRE ALARM

THE FIRE ALARM COMPONENT OF THIS CONTRACT INCLUDES A STANDALONE NON BRIGADE MONITORED FIRE ALARM SYSTEM WITH SPACE AND CAPACITY TO DOUBLE THE QUANTITY OF DETECTORS, SPEAKERS AND INTERFACES PROVIDED AS PART OF THE INITIAL CONSTRUCTION AS THE FIP WILL BE USED TO ACCOMMODATE THE FUTURE EXPANSION OF BUILDING 12.

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

- THE PROVISION OF A STAND ALONE AS1670.1 2018 FIRE DETECTION AND ALARM SYSTEM.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE FIRE ALARM SERVICES.
- CO-ORDINATION.
- INSPECTIONS.
- LOG BOOK.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- AS CONSTRUCTED DOCUMENTS INCLUDING DRAWINGS DETAILING THE LOOP PATH AND EACH COMPONENT ADDRESS.
- OPERATION AND MAINTENANCE MANUAL.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- FIP INCORPORATING THE FDCIE AND EWCIE.
- SYSTEM INTERFACE DIAGRAM.
- MANUAL CALL POINT ON THE FDCIE.
- DETECTORS.
- SPEAKERS AND HORNS.
- DOOR MAGNETIC HOLDERS AND RELEASE PUSH BUTTONS.
- INTERFACES TO THE SECURITY SYSTEM.
- ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE FIRE ALARM SYSTEM INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

ALL COMPONENTS PROVIDED AS PART OF THE FIRE ALARM SYSTEM MUST BE GENERIC IN THAT THEY CAN BE EXPANDED UPON AND MAINTAINED BY ANY CONTRACTOR WHO HOLDS THE REQUIRED QBCC AND FIRE PROTECTION CONTRACTORS REGISTRATION BOARD OF QUEENSLAND INC REGISTRATIONS. ALL SUCH COMPONENTS MUST NOT BE LOCKED INTO A SINGLE MANUFACTURER OR LIMITED BY A LICENSING AGREEMENT.

ALL COMPONENTS PROVIDED AS PART OF THE FIRE ALARM SYSTEM MUST BE LISTED ON THE CSIRO.AU/ACTIVEFIRE WEB SITE AND BE PROVIDED WITH A CURRENT CERTIFICATE OF CONFORMITY. INCLUDE A COPY OF EACH CERTIFICATE OF CONFORMITY IN THE MANUAL.

ENSURE ALL AS1670.1:2018 WORKS ARE 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. INCLUDE A COPY OF ALL THE ABOVE REGISTRATIONS AND LICENCES IN THE MANUAL

PRIOR TO PRACTICAL COMPLETION CERTIFY THE INSTALLATION ON A FORM 12 AS COMPLYING WITH THE RELEVANT CODES AND STANDARDS AND INCLUDE A COPY OF THE CERTIFICATION IN THE MANUAL.

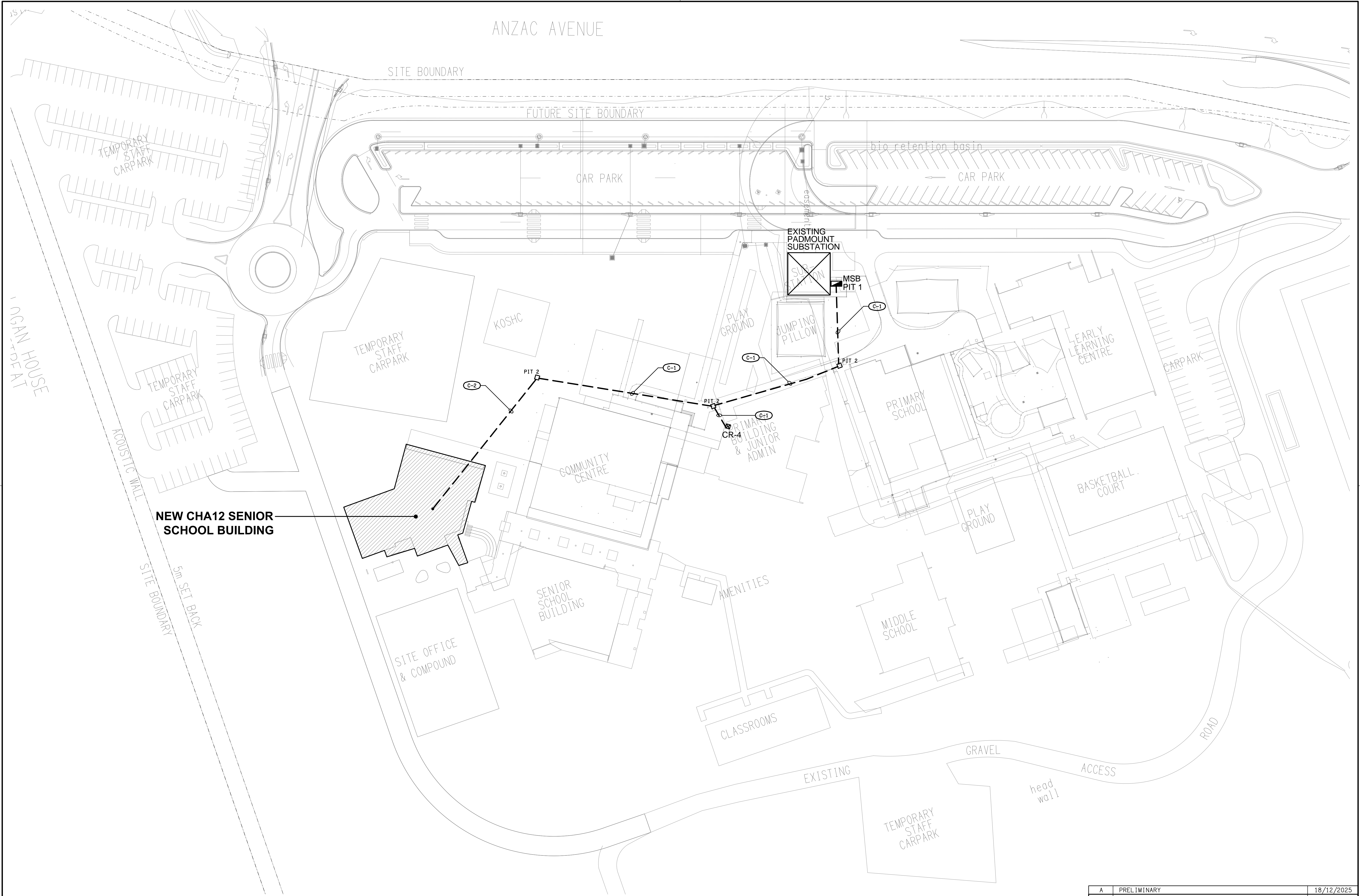
IN ADDITION TO THE DETECTORS DETAILED ON THE DRAWINGS, ALLOW FOR THE FOLLOWING PROVISIONAL ADDITIONAL DETECTORS TO BE LOCATED ON SITE:


- 6 SMOKE DETECTORS.
- 2 THERMAL DETECTORS.
- 4 CONCEALED SPACE DETECTORS INCLUDING ACCESS BRACKETS.

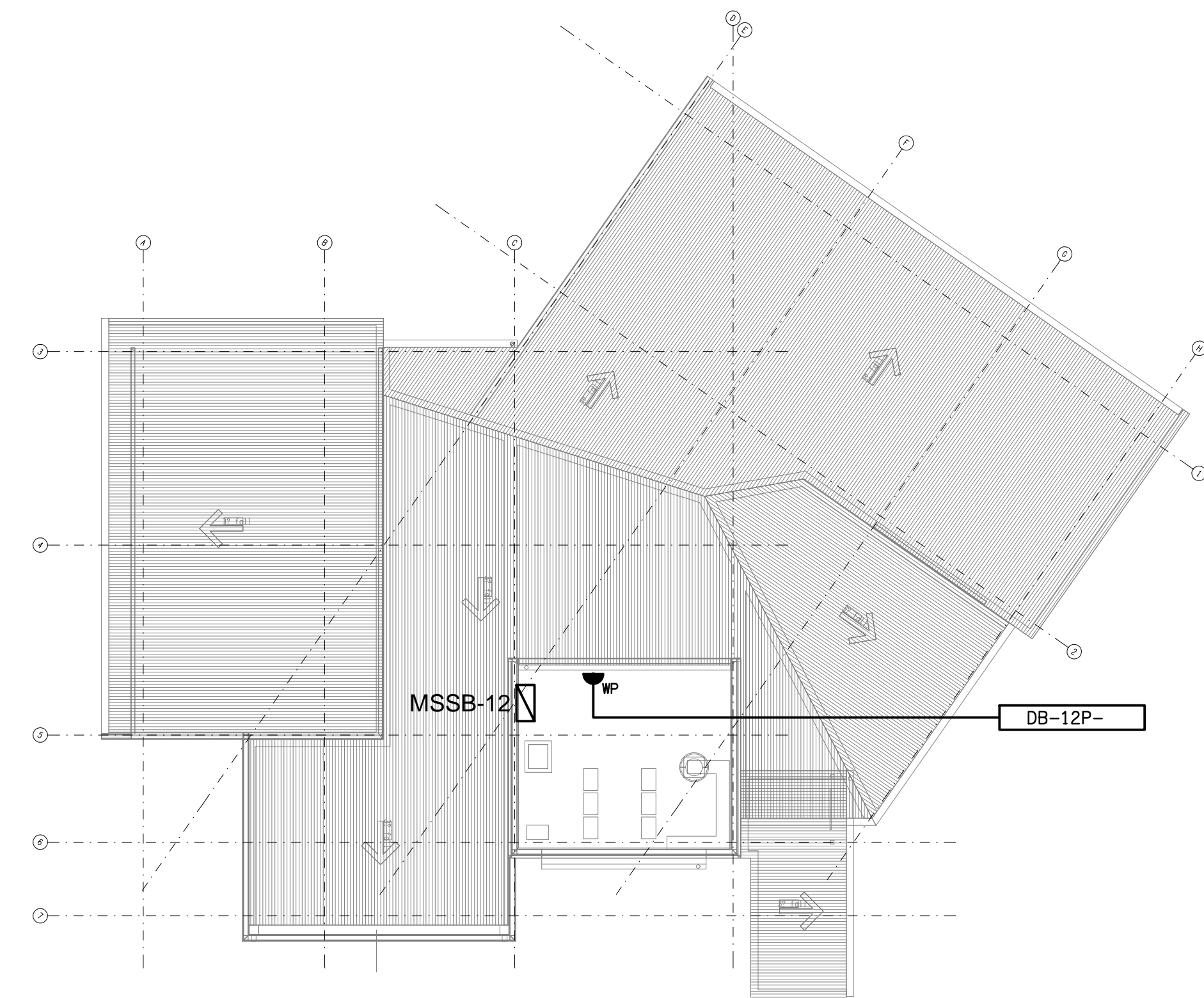
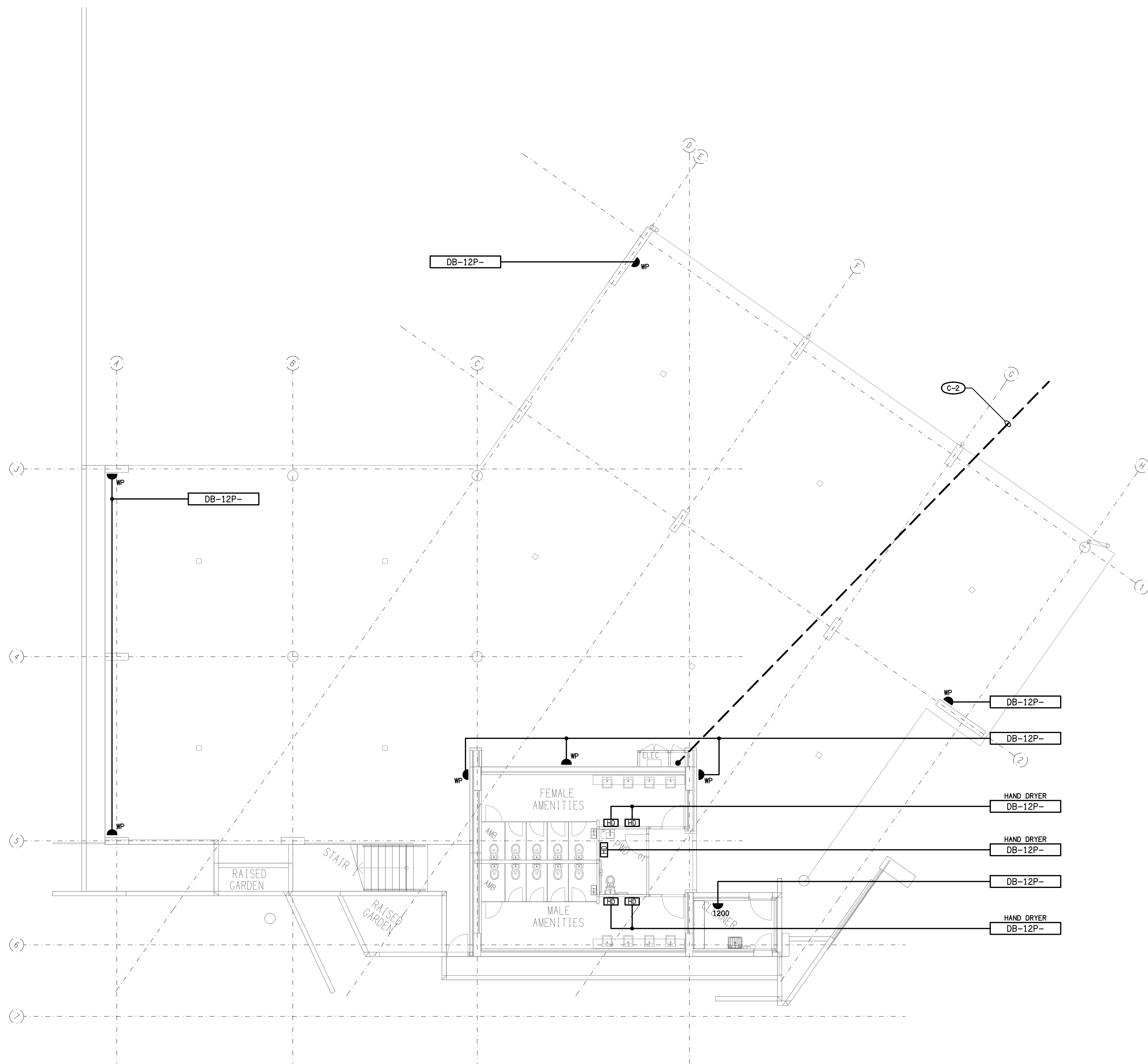
10. ABBREVIATIONS

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.
HP - HOT PLATE.
MCB - MINIATURE CIRCUIT BREAKER.
MCCB - MOUNDED CASE CIRCUIT BREAKER.
MSB - MAIN SWITCHBOARD.
MSSB - MECHANICAL SERVICES SWITCHBOARD.
MW - MICROWAVE.
N - NEON / LED INDICATOR WHEN ON.
NTS - NOT TO SCALE.
OV - OVEN.
RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER.
REF - REFRIGERATOR.
UNO - UNLESS NOTED OTHERWISE.
WP - WEATHERPROOF TO IP56 UNO.
500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

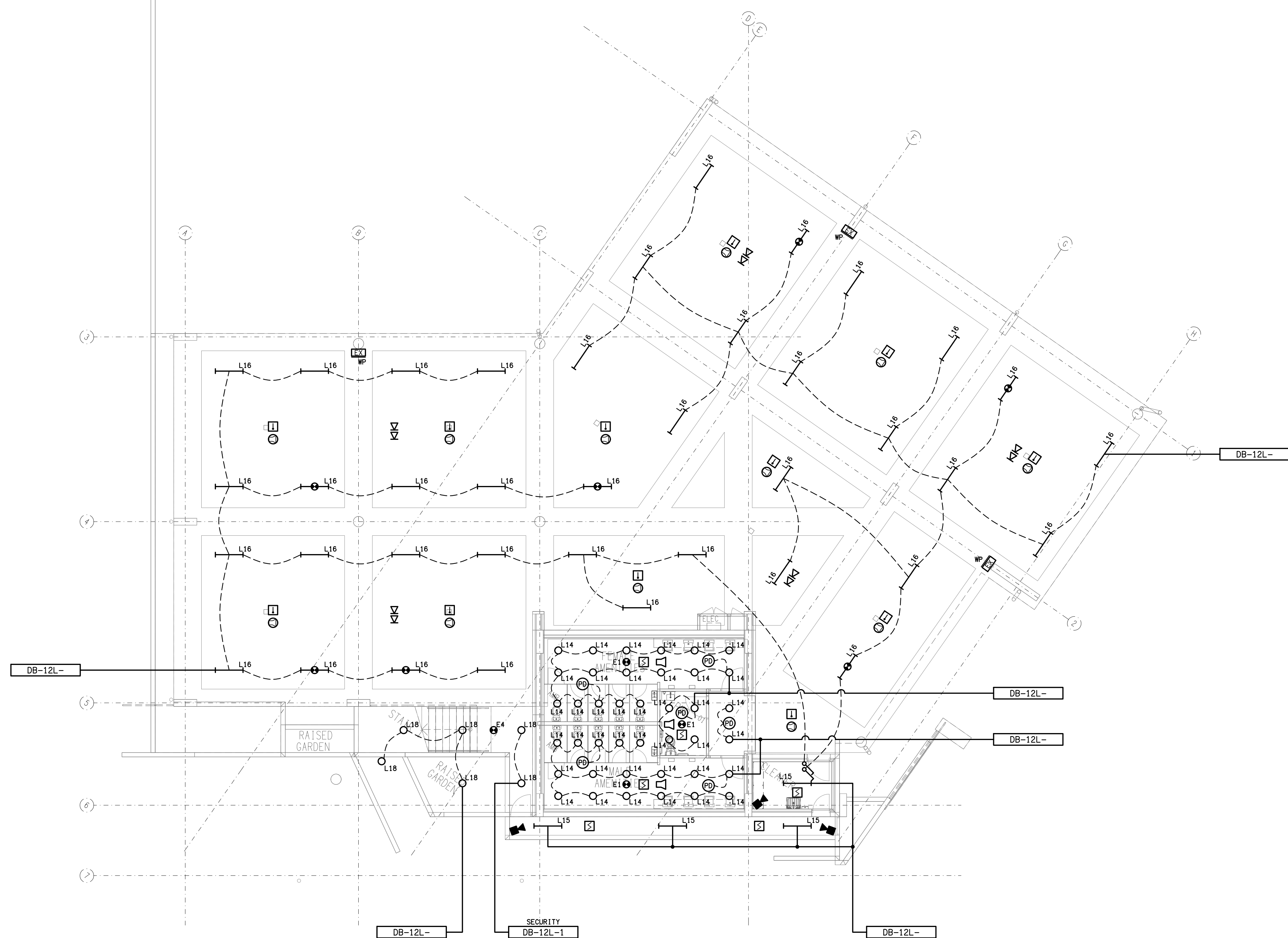
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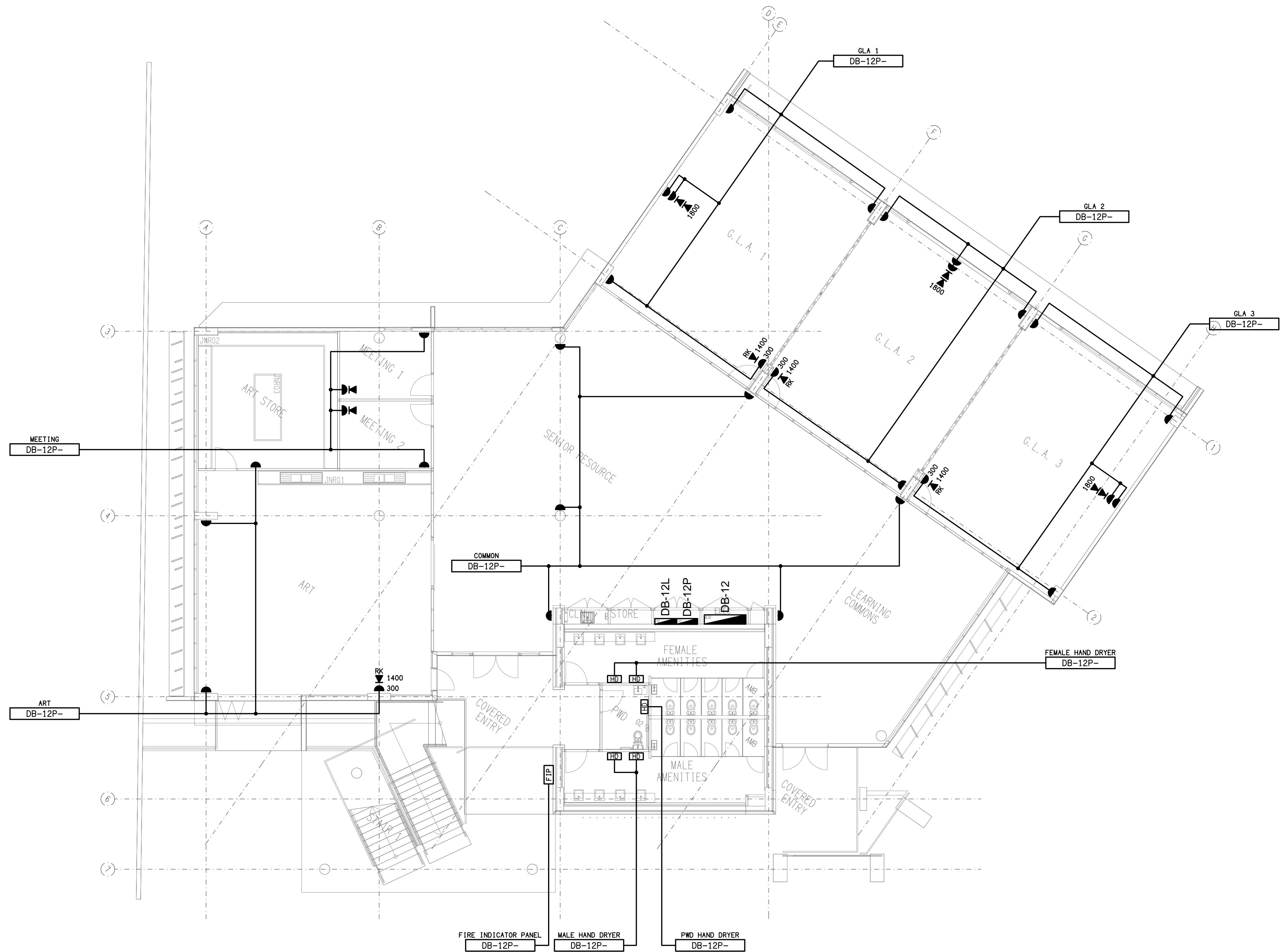


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ROOF LEVEL
PLANT DECK PLAN
SCALE 1:200





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PROJECT:
**KINGS CHRISTIAN COLLEGE
CHAMBERS FLAT, SENIOR SCHOOL CHA12**

38-112 ANZAC AVENUE, CHAMBERS FLAT

A	PRELIMINARY	18/12/2025
REV:	DESCRIPTION:	DATE:

DRAWING:
**ELECTRICAL SERVICES
LEVEL 1 FLOOR PLAN**

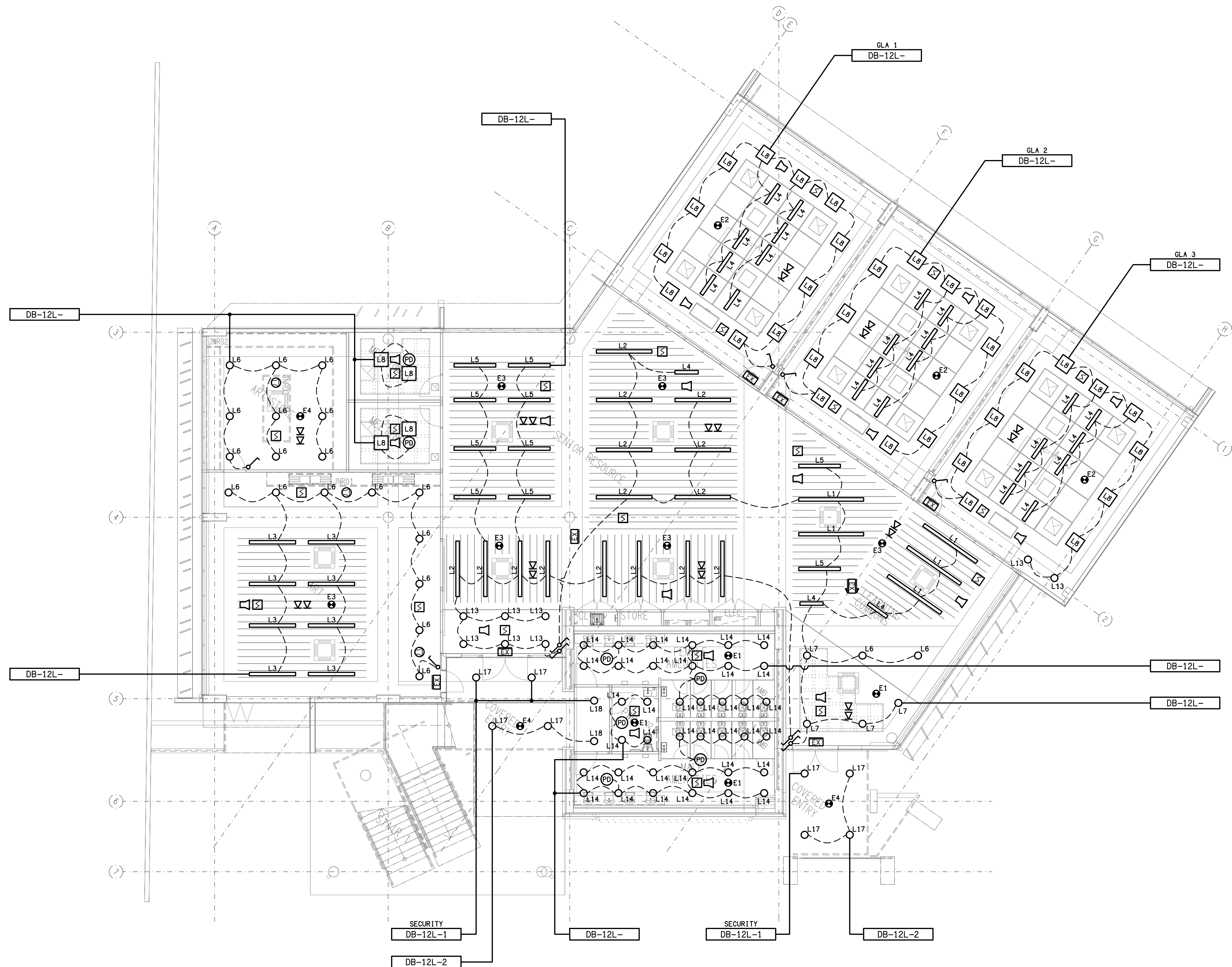
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AT A1

PROJECT NO:
C3474a

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REVISION:
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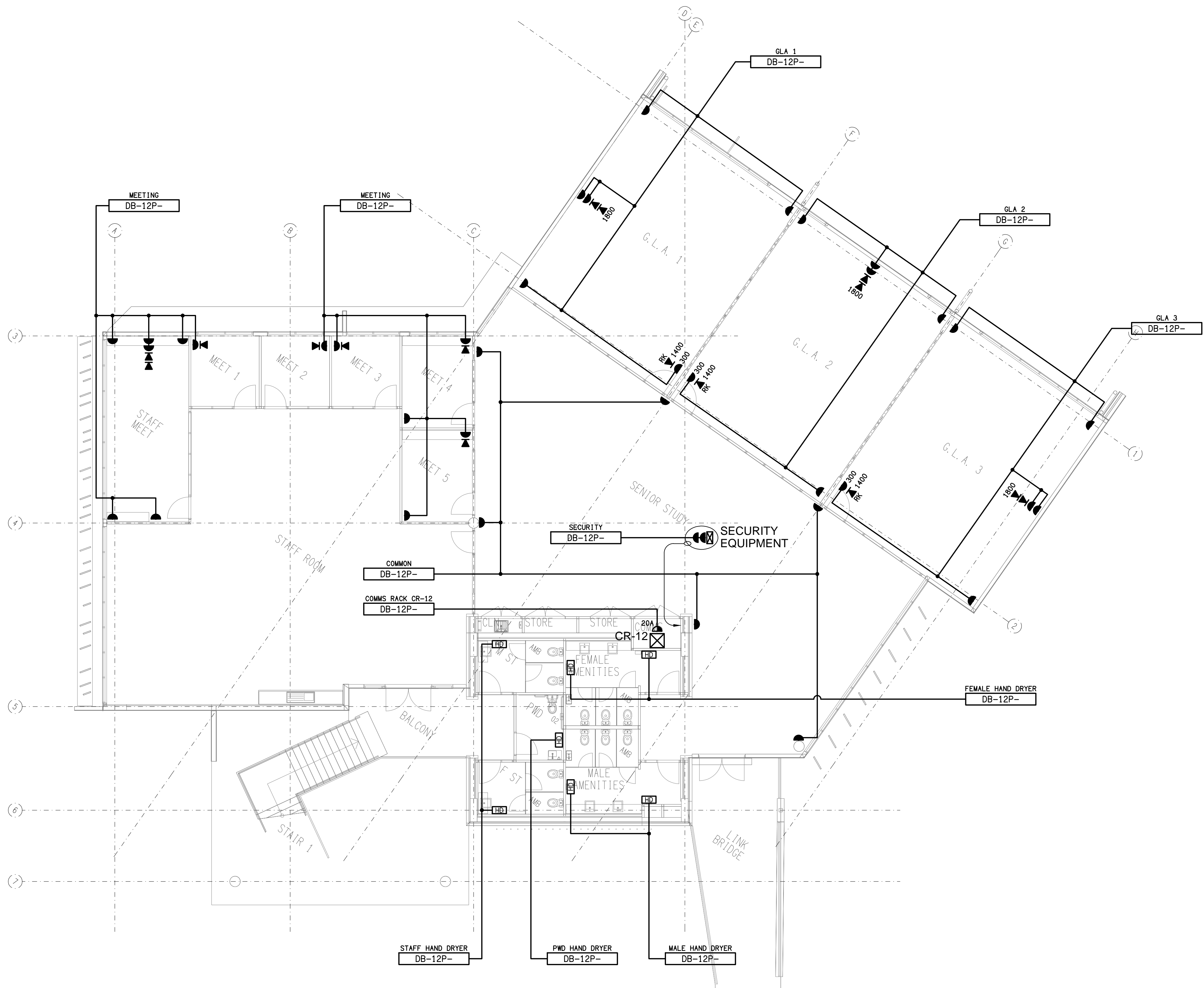
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PROJECT:
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CHAMBERS FLAT, SENIOR SCHOOL CHA12**

38-112 ANZAC AVENUE, CHAMBERS FLAT

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38-112 ANZAC AVENUE, CHAMBERS FLAT

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DRAWING:
**ELECTRICAL SERVICES
LEVEL 2 FLOOR PLAN**

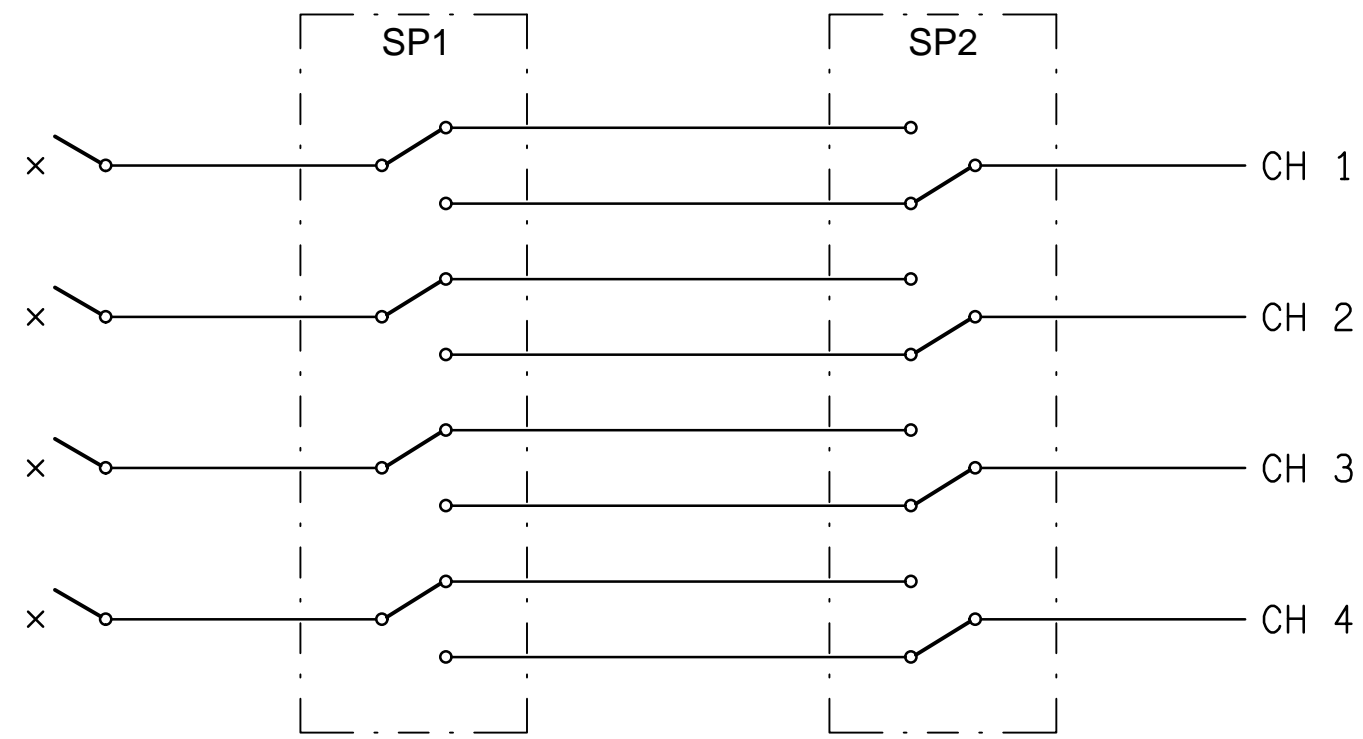
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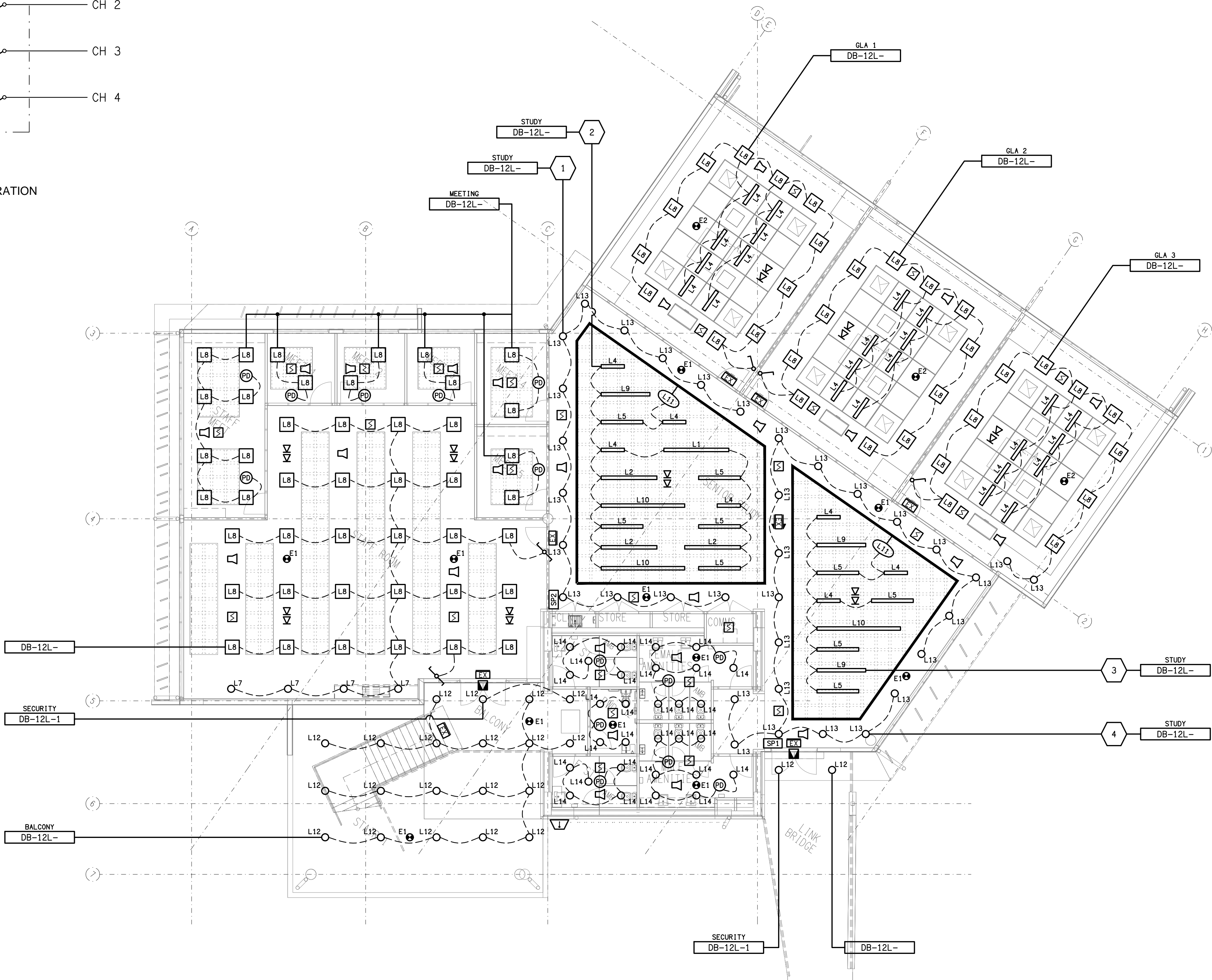
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DRAWING NO:
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REVISION:
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SCHEMATIC
SWITCH PANEL SP1 / SP2 CONFIGURATION
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