

**C2864a - DRY DOCK ROAD HOTEL, TWEED HEADS SOUTH
ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE
REVISION C - 09 DECEMBER 2024**

C2864a-0001(C).xls

ISSUING INFORMATION				DATE OF ISSUE							
	DAY	08	31	09							
	MONTH	03	05	12							
	YEAR	24	24	24							
	REASON FOR ISSUE	P	P	P							
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

REVISION A - 31 MAY 2024

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
L1	90W COOL WHITE LED	9m HIGH POLE C/W ENGINEER CERTIFIED FOOTING AND A CAR PARK LIGHT	BLACK FITTING AND POLE	SUNNY LIGHTING AUSTRALIA SHP305 90CW BK A45	A
L2	90W COOL WHITE LED	7.8m HIGH POLE C/W A CAR PARK LIGHT MOUNTED ON A ENGINEER CERTIFIED 1200 HIGH 600 DIA REINFORCED CONCRETE BOLLARD / FOOTING.	BLACK FITTING AND POLE	SUNNY LIGHTING AUSTRALIA SHP305 90CW BK A45	A
L3	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND OCCUPANCY SENSOR	LIGHT GREY	GAMMA STORM 1558-CCT-36+SENSOR	A
L4	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER	LIGHT GREY	GAMMA STORM 1558-CCT-36	A
L5	36W LED 4000K	SURFACE MOUNTED IP66 1200 LONG BATTEN C/W INTEGRAL DRIVER AND AN UNSWITCHED AS2293 NON MAINTAINED EMERGENCY PACK CONFIGURED TO ONLY OPERATE UPON MAINS FAILURE	LIGHT GREY	GAMMA STORM 1558-CCT-36	A
L6	100W 4000K LED	HIGH BAY C/W INTEGRAL DRIVER CHAIN SUSPENDED	BLACK	GAMMA ILLUMINATION ORBIT 2 881538	A
L7	34W 4000K LED	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN THE CEILING T BAR	WHITE TRIM	GAMMA ILLUMINATION AXIS 1549-4K-34W	A
L8	3000K LED	AMENITY RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE	GAMMA ILLUMINATION MYLO 1004-3K-13W	A
L9	100W 4000K LED	HIGH BAY C/W INTEGRAL DRIVER BRACKET MOUNTED	BLACK	GAMMA ILLUMINATION ORBIT 2 881538	A
L10	45W 4000K LED	WALL MOUNTED IP65 DOWN LIGHT C/E INTEGRAL DRIVER	BLACK	GAMMA ILLUMINATION MOLO 1537-4K-45W	A
L11	13W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1402-4K-13W	A
L12	22W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1441-4K-22W	A



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L13	34W 4000K LED	1200 x 300 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN A FLUSH RECESSED PB MOUNTING KIT	WHITE TRIM	GAMMA ILLUMINATION AXIS 1549-4K-34W C/W FLUSH RECESS PB KIT	A
L14	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	A
L15	100W 3000K LED	1200 DIA DECORATIVE PENDANT C/W INTEGRAL LED CHIP SET AND REMOTE DALI DIMMABLE DRIVER. PROVIDE THE FITTING WITH A HANG SURE SUSPENSION KIT	BLACK	ALLOW A PC SUM OF \$4000.00 FOR EACH L15 FITTING	A
L16	100W 3000K LED	800 DIA DECORATIVE PENDANT C/W INTEGRAL LED CHIP SET AND REMOTE DALI DIMMABLE DRIVER. PROVIDE THE FITTING WITH A HANG SURE SUSPENSION KIT	BLACK	ALLOW A PC SUM OF \$3500.00 FOR EACH L16 FITTING	A
L17	22W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE TRIM	GAMMA ILLUMINATION COBALT 1441-4K-22W	A
L18	22W 4000K LED	RECESSED DOWNLIGHT C/W REMOTE DRIVER	BLACK	GAMMA ILLUMINATION COBALT 1441-4K-22W	A
L19	40W 3000K LED	DECORATIVE PENDANT C/W INTEGRAL LED CHIP SET AND REMOTE DALI DIMMABLE DRIVER. PROVIDE THE FITTING WITH A HANG SURE SUSPENSION KIT	COPPER	ALLOW A PC SUM OF \$1000.00 FOR EACH L19 FITTING	A
L20	3000K LED	AMENITY RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER	WHITE	GAMMA ILLUMINATION MYLO 1004-3K-13W	A
L21	3W 3000K LED	RECESSED DOWNLIGHT C/W REMOTE DALI DIMMABLE DRIVER IT IS ACCEPTABLE TO SUPPLY MULTIPLE FITTINGS FROM A SUITABLE SIZED SINGLE DRIVER	SILVER	GAMMA ILLUMINATION 1108	A
L22	0.5w 2200K ES LAMP	SUSPENDED 24V AV FESTOON LAMP SYSTEM C/W REMOTE TRANSFORMERS AS REQUIRED 500MM LAMP SPACING PROVIDE A STAINLESS STEEL WIRE SUPPORT SYSTEM	BLACK CABLE & BASES	FIRE FLY FFC-LS-20-24VE27-BK	A
L23	3000K 5W LED	GARDEN SPIKE LIGHT. IP65, PROVIDE THE L23 FITTINGS WITH A COMMON DALI DIMMABLE POWER SUPPLY LOCATED IN A CONCEALED ACCESSIBLE POSITION.	BLACK	GAMMA ILLUMINATION 885102	A
L24	3.9W 3000K LED	FLUSH RECESSED WALL LIGHT CENTRED 300 AFFL. PROVIDE THE L24 FITTINGS WITH A COMMON DALI DIMMABLE POWER SUPPLY IN A CONCEALED ACCESSIBLE POSITION.	BLACK	GAMMA ILLUMINATION DUEX 4130-3K-24V	A



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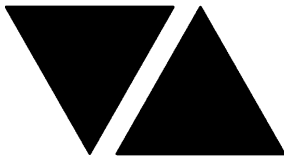
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L25	50W 3000K LED	600 DIA DECORATIVE SURFACE MOUNT BUNKER C/W INTEGRAL LED CHIP SET AND REMOTE DALI DIMMABLE DRIVER.	BLACK	ALLOW A PC SUM OF \$2500.00 FOR EACH L25 FITTING	A
BOTTLE SHOP CABLE TRAY		PROVIDE A BLACK PERFORATED CABLE TRAY SYSTEM SIZED AS PER THE DRAWING. PROVIDE SECURITY AND COMMUNICATIONS CABLING CHANNELS AS PER THE CABLE TRAY SECTIONS. MOUNT THE TRACK, EMERGENCY LIGHTING AND COMMUNICATIONS OUTLETS ON THE UNDERSIDE OF THE CABLE TRAY. ALL COMPONENTS FIXED TO THE CABLE TRAY ARE TO BE BLACK.			A
BOTTLE SHOP CABLE TRAY TRACK LIGHTING		3 CHANNEL TRACK MOUNTED ON THE UNDERSIDE OF THE CABLE TRAY CIRCUIT EACH CHANNEL AS PER THE DRAWING PROVIDE A FITTING FOR EACH 750MM OF TRACK. DISTRIBUTE THE FITTINGS EVENLY ACROSS THE THREE CHANNELS CONFIRM THE FITTING POSITIONS AND AIMING ON SITE WITH THE ARCHITECT	BLACK TRACK BLACK FITTINGS	GAMMA ILLUMINATION 25 SERIES TRACK 1115-VWFL-3K-14W FITTINGS	A
S1	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE ABOVE THE BAR / DINING ROOM WALL PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S2	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE ABOVE THE GAMING ROOM CEILING PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S3	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE ABOVE THE TAB ROOM CEILING PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S4	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE ABOVE THE ENTRY CEILING PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S5	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN THE ENTRY PORTAL AS PER THE ARCHITECTURAL DETAIL THE S5 IS TO RISE VERTICALLY FROM THE GROUND TO THE HEAD OF THE PORTAL ACROSS THE PORTAL THEN DOWN TO THE GROUND. PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A



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S6	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE WITHIN THE GAMING PORTAL AS PER THE ARCHITECTURAL DETAIL THE S5 IS TO RISE VERTICALLY FROM THE GROUND TO THE HEAD OF THE PORTAL ACROSS THE PORTAL THEN DOWN TO THE GROUND. PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S7	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE UNDER THE SEAT AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S8	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE UNDER THE BAR COUNTER PELMET AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S9	12W/M 3000K LED	FLEXIBLE LED ROPE FLEX SCREW FIXED IN PLACE UNDER THE EXTERNAL SEAT / STAIR AS PER THE ARCHITECTURAL DETAIL PROVIDE A REMOTE 240-24V POWER SUPPLY AND A DALI DIMMABLE INTERFACE UNIT	WHITE	NPA L-NF-GLOW-WW + POWER SUPPLY & DALI CONTROLLER	A
S10	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. SUPPLY / SWITCH THE S10 WITH EH ASSOCIATED ROOMS CEILING LIGHTING.			NEON PRODUCTS AUSTRALIA LF-DFB-NW-300-12 + PR-LIN172153-F	A
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	WHITE	CLEVERTRONICS CLIFE-PRO	A
E2	LED	EMERGENCY LIGHT: SURFACE MOUNTED ON THE UNDERSIDE OF THE TABLE TRAY SYSTEM NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	BLACK	CLEVERTRONICS CLIFE-PRO- SM-BLK	A
E3	LED	MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. MOUNT ON THE UNDERSIDE OF THE CABLE TRAY SYSTEM. AS2293 CLASSIFICATION C0-D1.25- C90-D2	BLACK	CLEVERTRONICS LUB PRO SM	A
E4	LED	EMERGENCY LIGHT: SURFACE MOUNTED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	BLACK	CLEVERTRONICS CLIFE-PRO- SM-BLK	A
E5	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION C0-D63 - C90-D63.	BLACK	CLEVERTRONICS CLIFE-PRO- BLK	A



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E6	LED	WHITE 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-D1.25- C90-D2	WHITE	CLEVERTRONICS LUB PRO SM	A
EX	LED	BLACK 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.	BLACK	CLEVERTRONICS LUB PRO SM	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 SPECIFICATION FOR FURTHER DETAILS OF THE CONFIGURATION AND SWITCHING OF EMERGENCY LIGHTS.			A
PROXIMITY DETECTOR SWITCH (PD)		ADJUSTABLE FLUSH RECESSED 360 DEGREE TRIPLE PYRO 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.	WHITE	CLIPSAL. SELECTION BY THE CONTRACTOR. SUBMIT DETAILS OF THE PROXIMITY DETECTOR SWITCH FOR APPROVAL PRIOR TO ORDERING	A
CEILING FAN 1 (F1)		2400 DIA CEILING FAN C/W CUSTOM 250 X 250 TIMBER MOUNTING BLOCK TO ALLOW THE FAN TO BE MOUNTED HORIZONTALLY. CONFIRM THE SUSPENSION HEIGHT OF THE FANS WITH THE ARCHITECT ON SITE.	BLACK	BIG ASS I61-08	A
CEILING FAN 2 (F2)		1500 DIA CEILING FAN C/W CUSTOM 250 X 250 TIMBER MOUNTING BLOCK TO ALLOW THE FAN TO BE MOUNTED HORIZONTALLY. CONFIRM THE SUSPENSION HEIGHT OF THE FANS WITH THE ARCHITECT ON SITE.	BLACK	1500 DIA CALIBO ALULA	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
LIGHTING CONTROL SWITCH PANEL (SPx)		6-BUTTON PROGRAMMABLE SWITCH PANEL C/W CENTRAL LCD DISPLAY MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	ALUMINIUM	DYNALITE ANTUMBRA DISPLAY	A



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BOTTLE SHOP LIGHTING CONTROL SWITCH PANEL (SPB)		MULTI GANG SWITCH PANEL AS PER THE SP-B DETAIL MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	STAINLESS STEEL	CLIPSAL B SERIES	A
HAND DRYER CONNECTION (HD)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND FOR THE HAND DRYER MOUNT THE GPO AS PER THE ARCHITECTURAL DETAIL	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	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 UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	A
SINGLE POWER OUTLET AUTO DOOR (AD)		SINGLE POWER OUTLET C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT THE OUTLETS WITH IN THE AUTO DOOR MULLION SUCH THAT THE FLEX IS NOT VISIBLE	WHITE	CLIPSAL C2000 SERIES	A
SINGLE POWER OUTLET SUSPENDED (SUS)		SINGLE 10A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL "56 SERIES" 56SPO310-RW	A
SINGLE 15A POWER OUTLET SUSPENDED (SUS)		SINGLE 15A POWER OUTLET SUSPENDED TO 1600 AFFL UNLESS NOTED OTHERWISE VIA A 3MM STAINLESS STEEL WIRE ROPE.	WHITE	CLIPSAL "56 SERIES" 56SPO315	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 (BK)	CLIPSAL C2000 SERIES	A
IP56 SINGLE POWER OUTLET		SINGLE POWER OUTLET IP56 MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	GREY	CLIPSAL 56 SERIES	A
DOUBLE POWER OUTLET (USB)		DOUBLE POWER OUTLET C/W USB CHARGER AND CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNT ABOVE BENCH U.N.O. RATING 10A U.N.O.	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES + 30USBCM MECH	A
IP56 DOUBLE POWER OUTLET		DOUBLE POWER OUTLET IP56 MOUNT AT 300mm AFFL U.N.O. RATING 10A U.N.O.	GREY	CLIPSAL 56 SERIES	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.	GREY	CLIPSAL WSC227/1-RG	A
15A WEATHERPROOF POWER OUTLET (WP 15A)		IP54 WEATHERPROOF 20A SINGLE POWER OUTLET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 20A U.N.O.	GREY	CLIPSAL WSC227/1/15-RG	A



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20A WEATHERPROOF POWER OUTLET (WP 20A)		IP66 WEATHERPROOF 20A SINGLE POWER OUTLET. MOUNT AT MINIMUM 1100mm AFFL U.N.O. RATING 20A U.N.O.	GREY	CLIPSAL 56 SERIES	A
SPECIAL PURPOSE OUTLET		SPECIAL PURPOSE OUTLET TYPE AS NOTED. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.			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.	-	CLIPSAL WHT35	A
THREE-PHASE ISOLATOR RSD		THREE-PHASE ISOLATOR. MOUNT AT HIGH LEVEL ADJACENT THE ROLLER SHUTTER DOOR CONTROLLER / MOTOR. COORDINATE THE POSITION ON SITE WITH THE ROLLER SHUTTER DOOR SUPPLIER CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.	-	CLIPSAL WHT35	A
SIGN CONNECTION		COORDINATE THE LOCATION AND CONNECTION WITH THE SIGN CONTRACTOR ENSURING THE GPO / ISOLATORS ARE PROVIDED WITH APPROPRIATE WEATHER PROTECTION AND ARE CONCEALED FROM VIEW.			A
DB-1		DISTRIBUTION BOARD DB-1 AS PER THE DB-1 SCHEDULE, POWER SCHEMATICS AND THE SPECIFICATION. PROVIDE A SHOP DRAWING OF DB-1 FOR APPROVAL.			A
DB-2		DISTRIBUTION BOARD DB-2 AS PER THE DB-2 SCHEDULE, POWER SCHEMATICS AND THE SPECIFICATION. PROVIDE A SHOP DRAWING OF DB-2 FOR APPROVAL.			A
DB-B		DISTRIBUTION BOARD DB-B AS PER THE DB-B SCHEDULE, POWER SCHEMATICS AND THE SPECIFICATION. PROVIDE A SHOP DRAWING OF DB-B FOR APPROVAL.			A
MSB		MAIN SWITCHBOARD AS PER THE POWER SCHEMATIC AND THE SPECIFICATION. PROVIDE A SHOP DRAWING OF THE MAIN SWITCHBOARD FOR APPROVAL.			A
MSSB-H		HOTEL MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
MSSB-B		BOTTLE SHOP MECHANICAL SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
DB-REF		HOTEL REFRIGERATION SERVICES SWITCHBOARD PROVIDED BY THE REFRIGERATION SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE REFRIGERATION SUB CONTRACTOR ON SITE.			A



ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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Web Site: www.edg.net.au Email: brisbane@edg.net.au

C2864a - DRY DOCK ROAD HOTEL, TWEED HEADS SOUTH

C2864a-0002(A).xls

ELECTRICAL EQUIPMENT SCHEDULE

REVISION A - 31 MAY 2024

THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
DB-BR		BOTTLE SHOP REFRIGERATION SERVICES SWITCHBOARD PROVIDED BY THE MECHANICAL SUB CONTRACTOR. COORDINATE THE SUBMAIN CONNECTION WITH THE MECHANICAL SUB CONTRACTOR ON SITE.			A
GENERATOR CONNECTION CUBICLE (GCC)		PROVIDE THE GENERATOR CONNECTION CUBICAL AS A LOCKABLE EXTERNAL GRADE STAINLESS STEEL HOUSING WALL MOUNTED AT LOW LEVEL. PROVIDE THE CUBICAL WITH PRE DRILLED LINKS TO ALLOW TEMPORARY GENERATOR MAIN TO BE CONNECTED. CONNECT THE PERMANENT GENERATOR MAINS TO THE LINKS. PROVIDE THE CUBICAL WITH FACILITY SO THE DOOR CAN BE CLOSED WITH THE TEMPORARY MAINS CONNECTED. SUBMIT A SHOP DRAWING OF THE CUBICAL FOR APPROVAL.			A
REVENUE METER (M1)		CODE COMPLIANT RETAIL METER INCLUDING ALL ASSOCIATED COMPONENTS INCLUDING THE METERS AND CTS ETC.			A
PRIVATE METER (M2)		PROVIDE A MULTIFUNCTION METER THAT LOGS THE FOLLOWING ACROSS EACH PHASE, DEMANDS , VOLTAGES, POWER FACTORS, AND HARMONICS.			A
MANUAL TRANSFER SWITCH (MTS)		MANUAL ELECTRICAL AND MECHANICAL INTERLOCKED LOAD TRANSFER SWITCH.			A
COMMUNICATIONS RACK (CR-1)		IT FREE STANDING 42 RU MINIMUM 800 DEEP 800 WIDE COMMUNICATIONS RACK CR-1 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 THE REQUIRED CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE SPECIFICATION. PROVIDE THE RACK WITH CASTERS. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		4 CABLING SKU 002.001.4280	A
COMMUNICATIONS RACK (CR-2)		GAMING FREE STANDING 42 RU MINIMUM 600 DEEP 600 WIDE COMMUNICATIONS RACK CR-2 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 THE REQUIRED CAT 6 PATCH PANELS, CABLE MANAGEMENT AS PER THE SPECIFICATION. PROVIDE THE RACK WITH CASTERS. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		4 CABLING SKU 002.001.4280	A
COMMUNICATIONS RACK (CR-3)		AV SECURITY FREE STANDING 42 RU MINIMUM 600 DEEP 600 WIDE RACK CR-3 PROVIDE A SHOP DRAWING OF THE RACK. PROVIDE THE RACK WITH CASTERS. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		4 CABLING SKU 002.001.4280	A
COMMUNICATIONS RACK (CR-4)		AV SECURITY FREE STANDING 42 RU MINIMUM 600 DEEP 600 WIDE RACK CR-4. PROVIDE A SHOP DRAWING OF THE RACK. PROVIDE THE RACK WITH CASTERS. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		4 CABLING SKU 002.001.4280	A
COMMUNICATIONS RACK (CR-B)		BOTTLE SHOP COMMUNICATIONS AV SECURITY WALL MOUNTED HINGED 18 RU MINIMUM 600 DEEP 600 WIDE RACK CR-B PROVIDE A SHOP DRAWING OF THE RACK. REFER TO THE SPECIFICATION FOR ADDITIONAL REQUIREMENTS.		4 CABLING SKU 002.001.4280	A



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C2864a - DRY DOCK ROAD HOTEL, TWEED HEADS SOUTH					C2864a-0002(A).xls
ELECTRICAL EQUIPMENT SCHEDULE					
REVISION A - 31 MAY 2024					
THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK www.edg.net.au/Links/Lighting.htm					
TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
COMMUNICATIONS OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO CAT 6 PATCH PANELS IN RACK CR-1 VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	A
CAT 6 GAMING OUTLET		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO CAT 6 DEDICATED GAMING PATCH PANELS IN RACK CR-2 VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET. MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE	WHITE UNLESS NOTED AS BLACK (BK)	CLIPSAL C2000 SERIES	A
GAMING FIBRE (GF)		INSTALL DUPLEX FIBRE OPTIC CABLE BETWEEN THE POKER MACHINE BASES AND FROM THE POKER MACHINE BASES BACK TO RACK CR-2 AS INDICATED. THE DUPLEX FIBRE OPTIC CABLE WILL BE SUPPLIED AND TERMINATED BY OTHERS.			A
NBN PREMISE CONNECTION DEVICE (PCD)		NBN COMPLIANT PREMISES CONNECTION DEVICE TO BE CONNECTED TO THE NTD VIA AN NBN COMPLIANT DROP CONDUIT. CONNECT THE PCD TO THE TELSTRA PIT VIA AN NBN COMPLIANT LEAD-IN CONDUIT.			A
NBN NETWORK TERMINATION UNIT (NTD)		NBN COMPLIANT NETWORK TERMINATION UNIT TO BE PROVIDED IN ACCORDANCE WITH THE NBN REQUIREMENTS			A
(A1) CABLE ACCESS POINT		PROVIDE THE A1 AS A CONCEALED CONDUIT ACCESS POINT WITHIN THE JOINERY. PROVIDE 2 X 50 DIA INSITU CONDUITS BETWEEN THE A1 POINTS AND THE RISER AS SHOWN ON THE DRAWING..			A
(A2) CABLE ACCESS POINT		FLUSH RECESSED 50DIA CONDUIT DRAW IN BOX FOR THE RFID CABLING. PROVIDE A 25 DIA INSITU CONDUIT FROM THE A2 BOX TO THE ASSOCIATED A1 / A2 BOX / RISER AS SHOWN ON THE DRAWING.			A
RISER		PROVIDE THE RISER AS A BLACK 2 CHANNEL 150 X 75 PER CHANNEL ALUMINIUM DUCT WITH A SCREW FIXED REMOVABLE LID WALL MOUNTED FROM THE FLOOR TO THE CEILING SPACE ABOVE. PROVIDE DETAILS OF THE PROPOSED RISER FOR APPROVAL			A
PIT P1		PROVIDE A REINFORCED MASONRY INSITU PIT / TRENCH BELOW MSB FOR THE FULL LENGTH OF THE MSB AS PER THE MSB SECTION DETAIL. PROVIDE AS PART OF THE ELECTRICAL WORKS THE SWITCHBOARD AND LID SUPPORT SYSTEM AND THE TRENCH LIDS. PROVIDE THE TRENCH LIDS AND STRUCTURAL SUPPORT SYSTEM AS HOT DIPPED GALVANISED STEEL. PROVIDE THE TRENCH LIDS WITH LIFTING HOLES CHECKER PLATE R10 ANTI SLIP PATTERNING WITH EACH PART NO HEAVIER THAN 20 kg. FIX THE LIDS IN PLACE SUCH THAT A TOOL IS REQUIRED TO REMOVE THEM. PROVIDE THE TRENCH WITH AN AUTOMATIC SUMP PUMP TO DRAIN TO THE STORMWATER SYSTEM. PROVIDE CABLE SUPPORTS WITHIN THE TRENCH TO ENSURE THAT THERE ARE NO CABLES WITHIN 50MM OF THE TRENCH FLOOR.			A
PIT P2		900 X 900 CLEAR INTERNAL X 1000 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
PIT P3		900 X 900 CLEAR INTERNAL X 1000 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A



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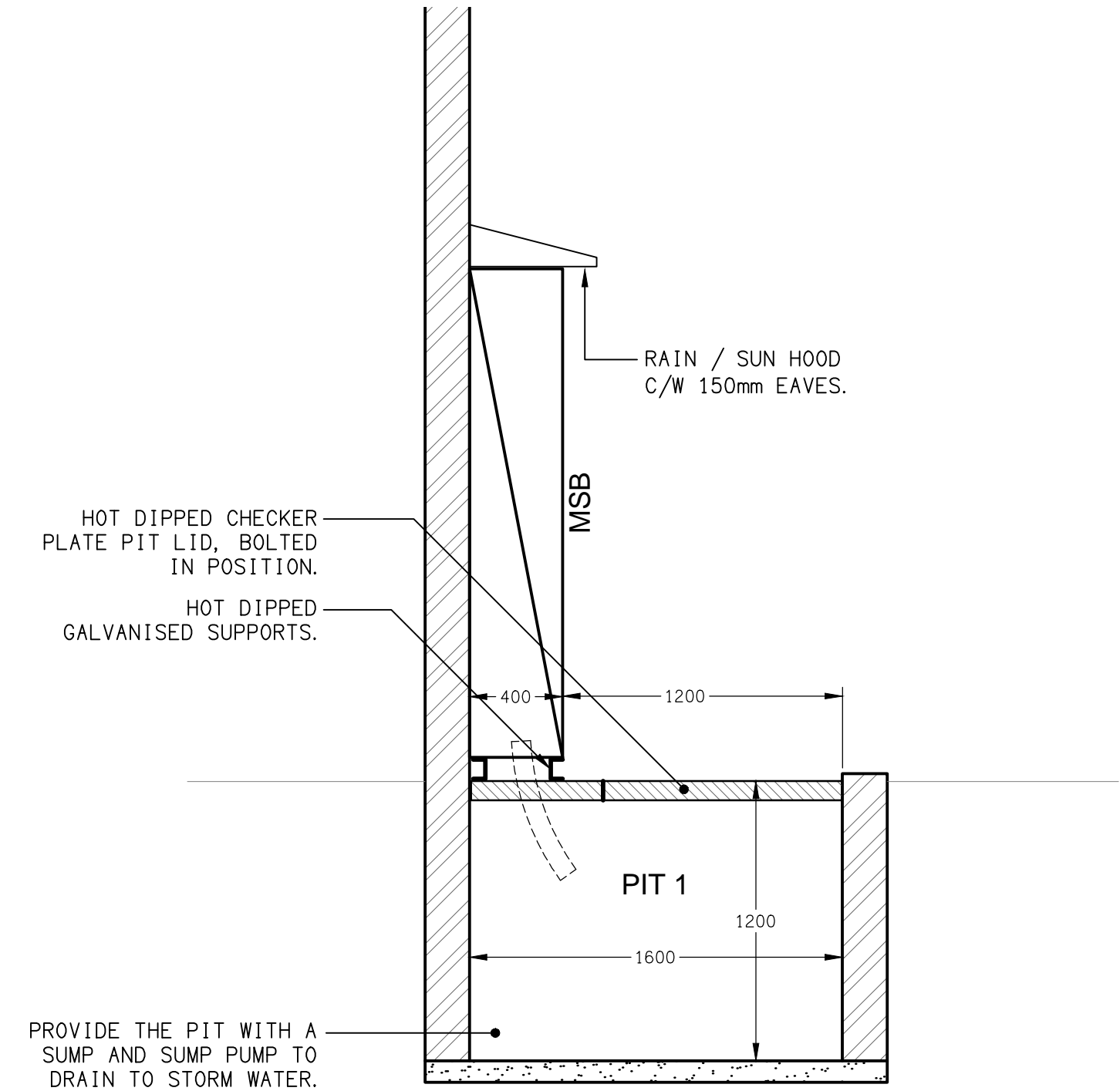
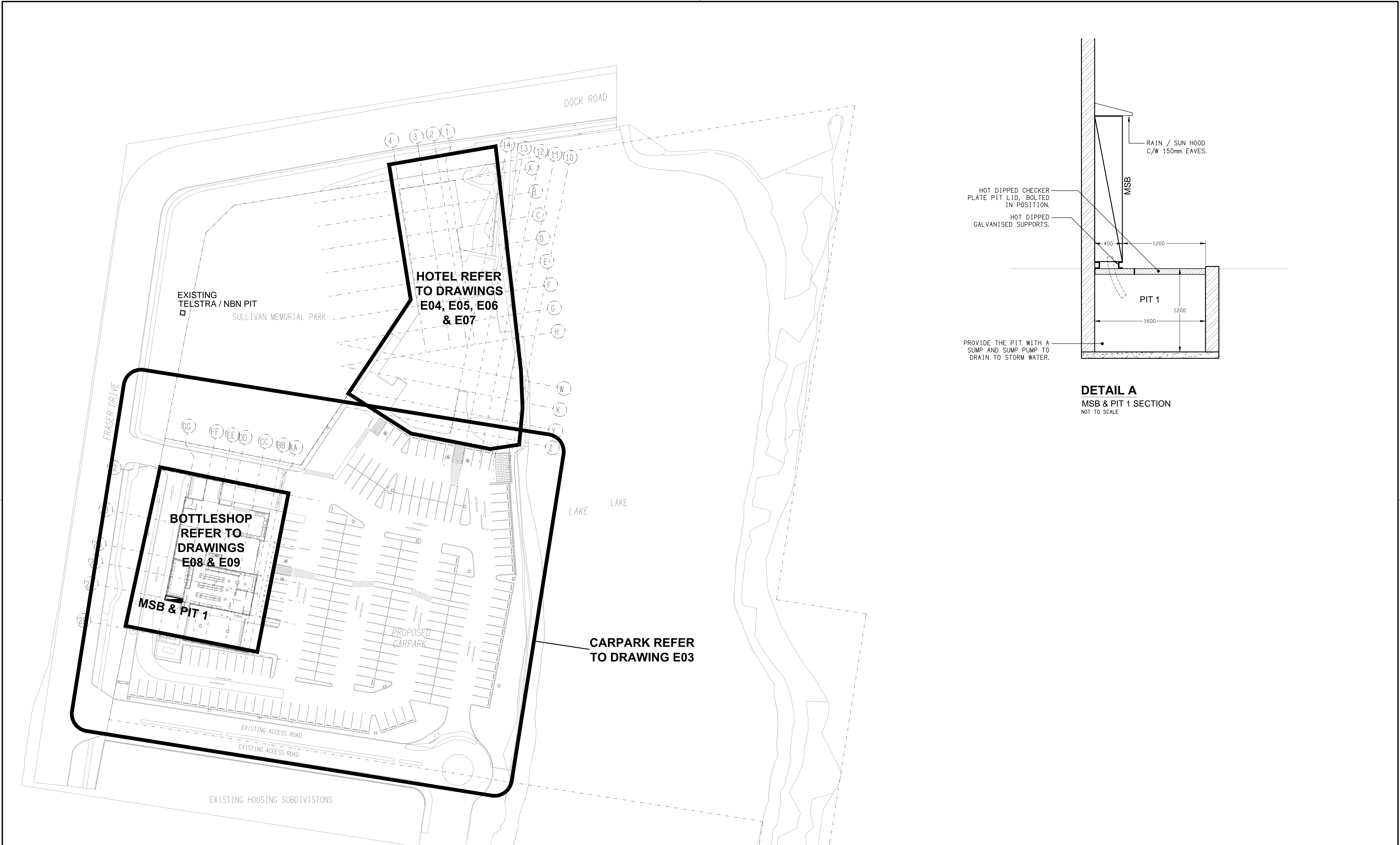
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ELECTRICAL EQUIPMENT SCHEDULE

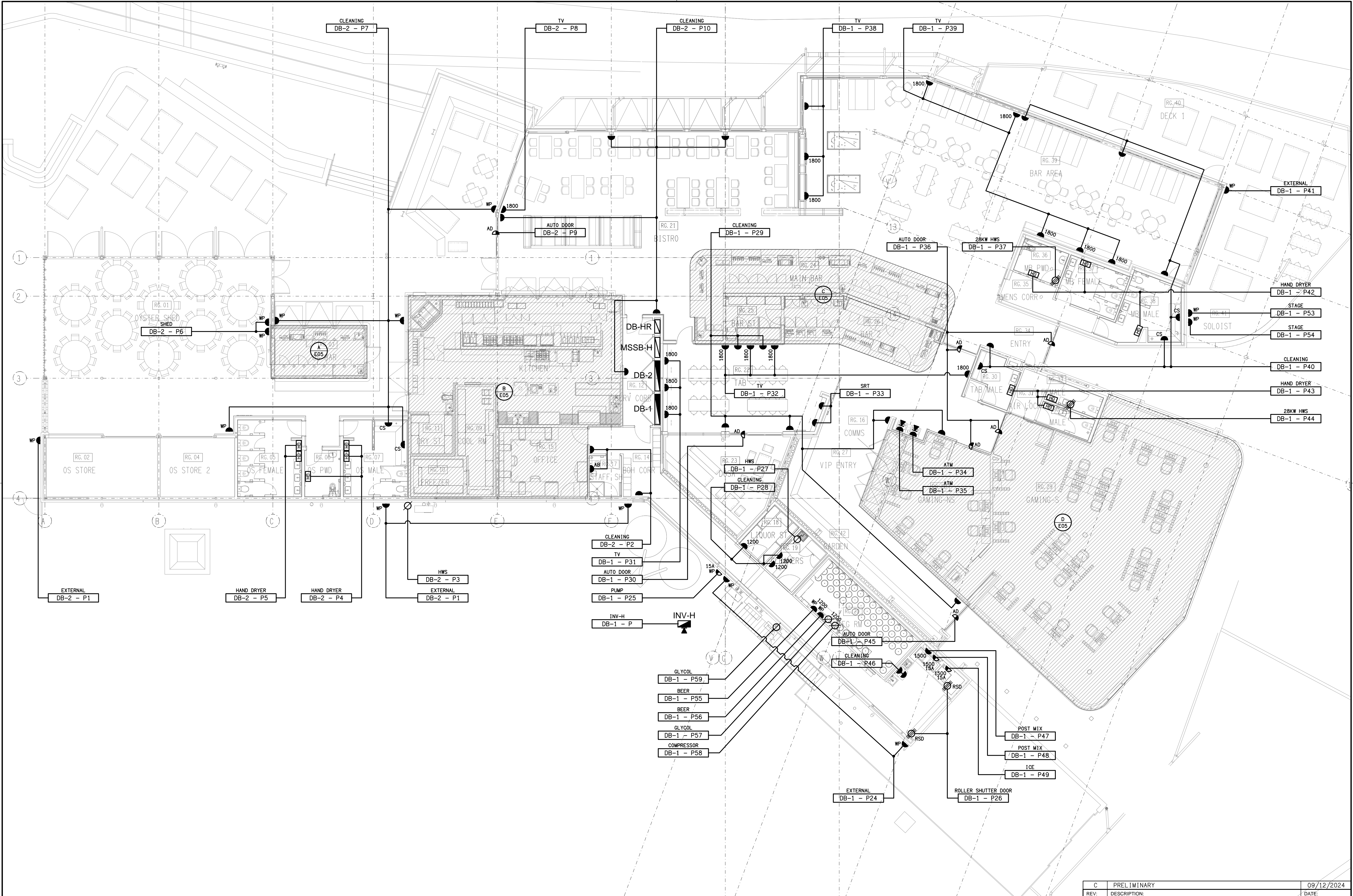
REVISION A - 31 MAY 2024

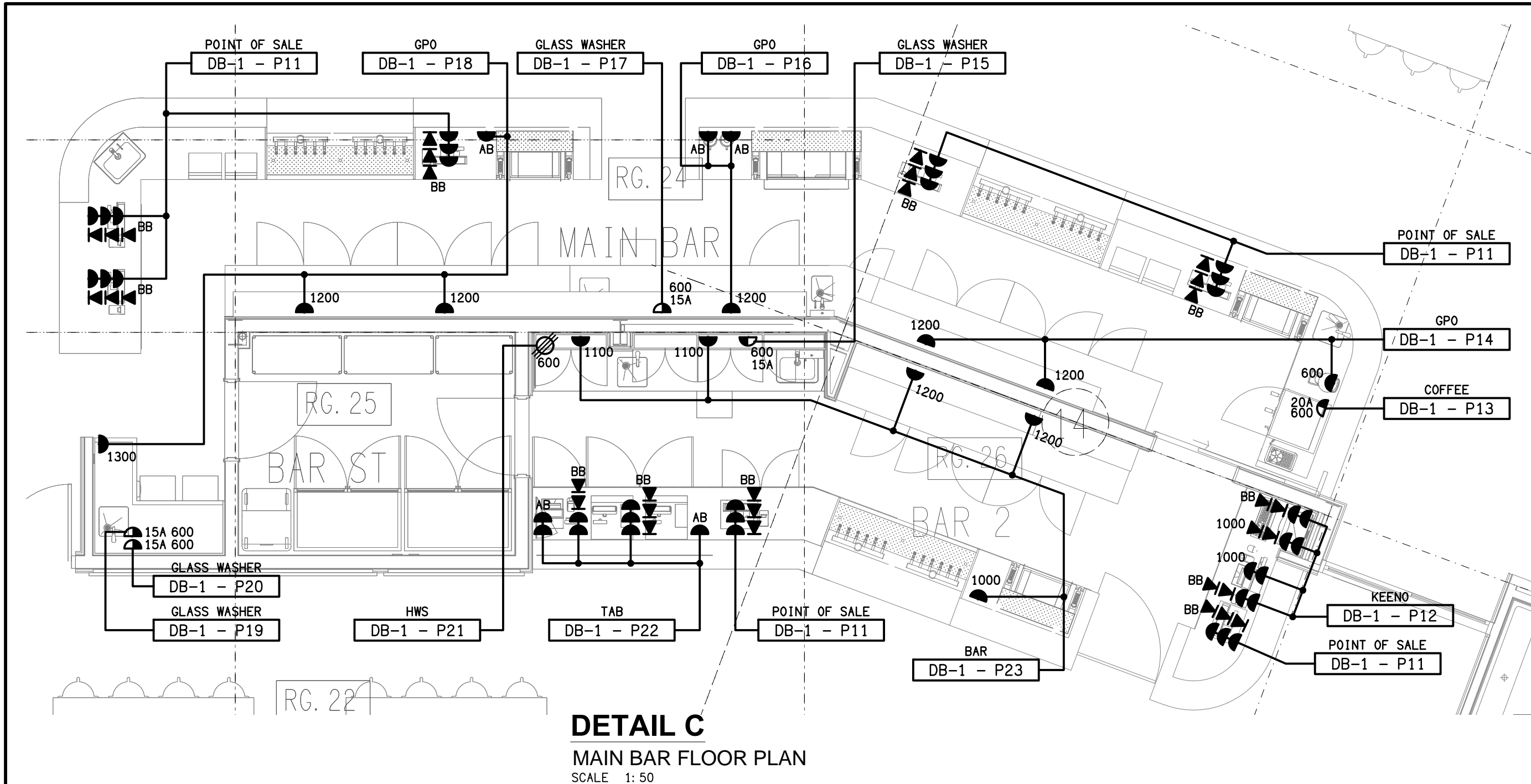
THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK
www.edg.net.au/Links/Lighting.htm

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No	REV
PIT P4		600 X 600 CLEAR INTERNAL X 700 DEEP INSITU POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
PIT C1		600 X 600 CLEAR INTERNAL X 700 DEEP PLASTIC POWER PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C STEEL LID WITH A SLIP RESISTANCE OF R10 SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
PIT C2		450 X 450 CLEAR INTERNAL X 700 DEEP PLASTIC COMMUNICATIONS PIT C/W A REINFORCED CONCRETE SURROUND AND A CLASS C INFILL LID SUBMIT DETAILS OF THE PIT, LID AND AN INSTALLATION SECTION FOR APPROVAL.			A
TELSTRA / NBN PIT		EXISTING TELSTRA PIT CONFIRM THE POSITION ON SITE			A
GALVANIZED OUTLET SUPPORT BOLLARD		CUSTOM MADE FULLY WELDED HOT DIPPED GALVANIZED STEEL BOLLARD C/W MOUNTING PLATE BOLTED TO A REINFORCED CONCRETE FOOTING. SIZE THE BOLLARD TO ACCOMMODATE THE NOMINATED OUTLETS WITH THE CABLE ACCESS TO THE OUTLETS RISING UP THROUGH THE BOLLARD. PROVIDE A SHOP DRAWING OF THE BOLLARD INCLUDING THE OUTLETS FOR APPROVAL. CONFIRM THE POSITION OF THE BOLLARD ON SITE WITH THE ARCHITECT.			A

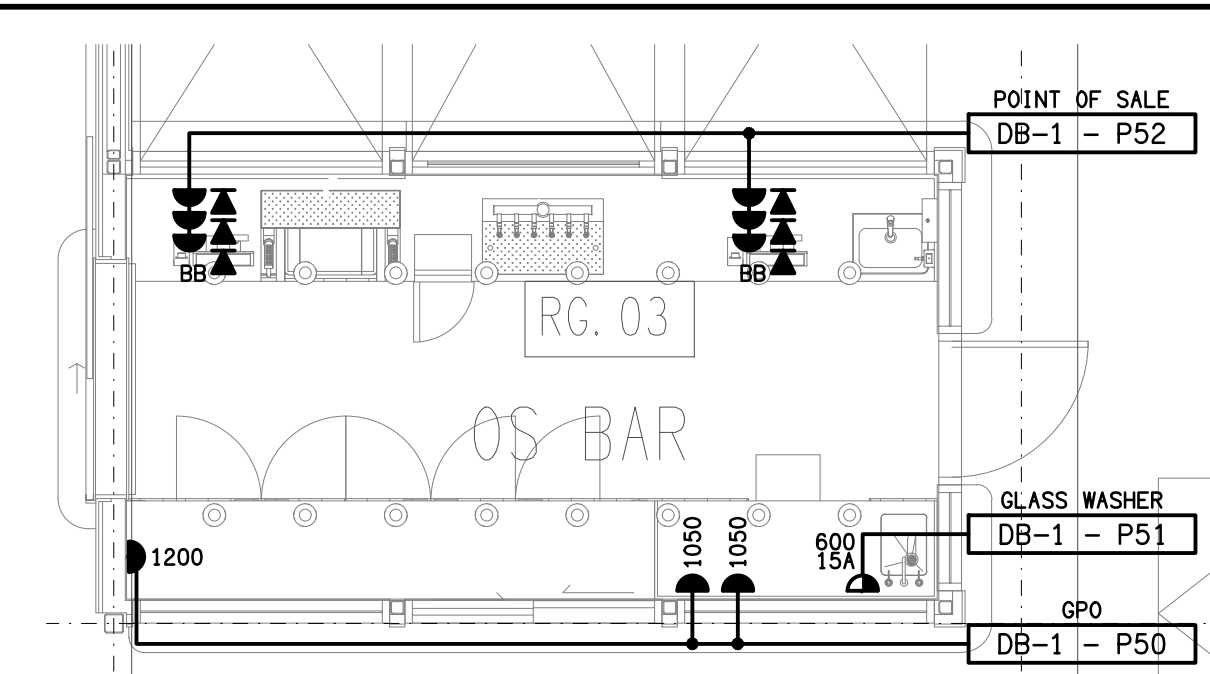


DETAIL A
MSB & PIT 1 SECTION
NOT TO SCALE

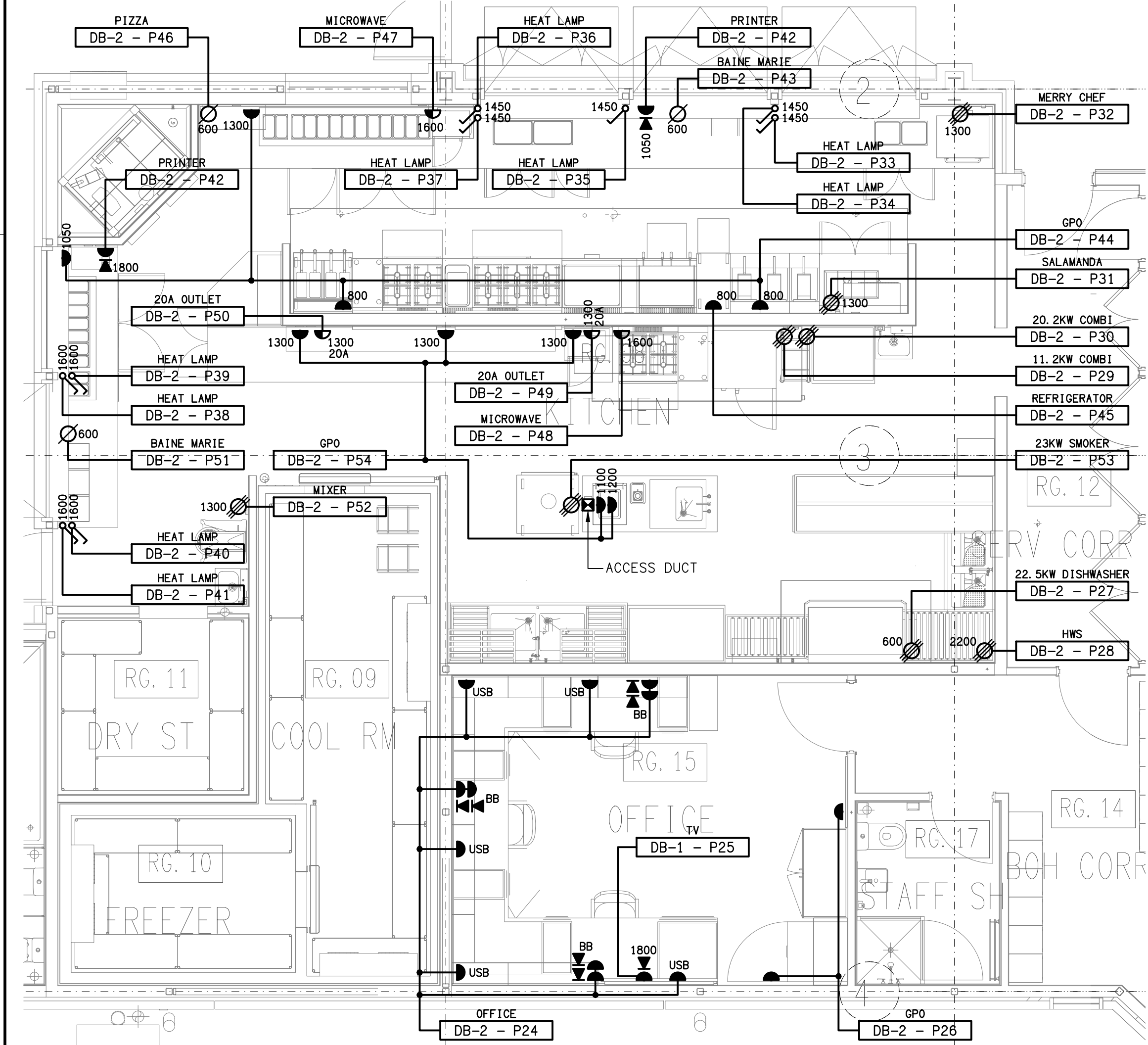




DETAIL C
MAIN BAR FLOOR PLAN
SCALE 1: 50

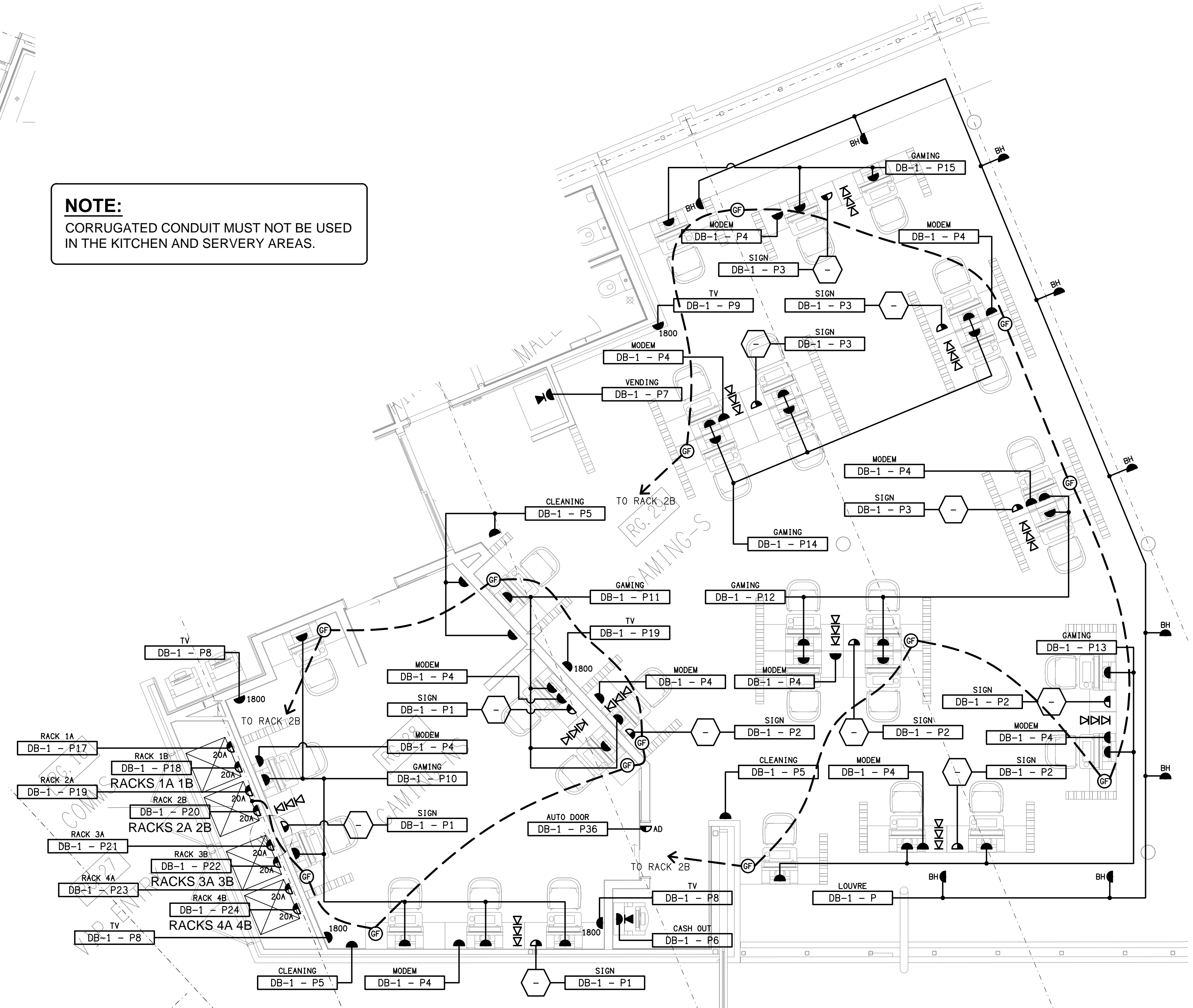


DETAIL A
OUTSIDE BAR FLOOR PLAN
SCALE 1: 50

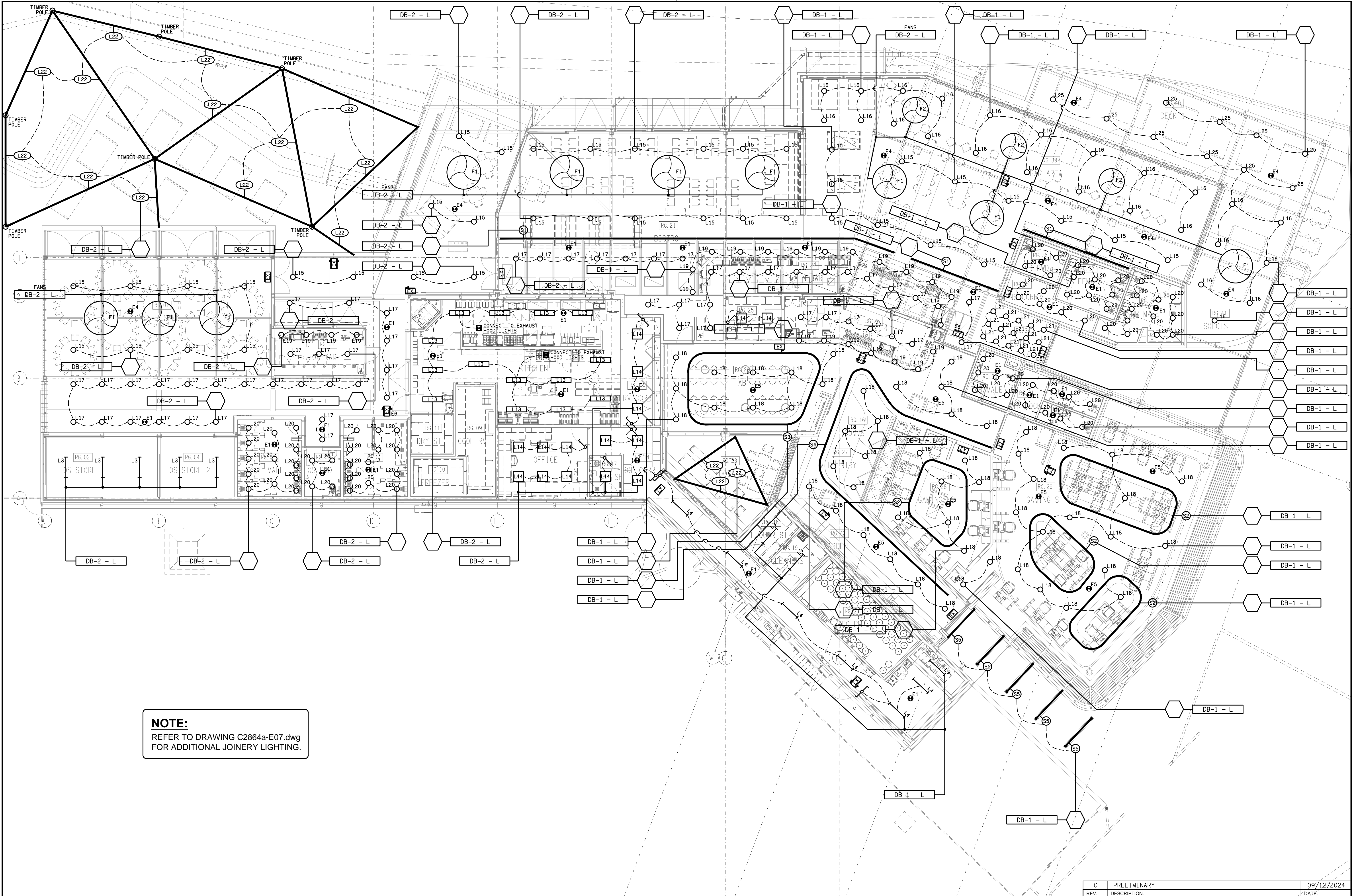


DETAIL B
KITCHEN & OFFICE FLOOR PLAN
SCALE 1: 50

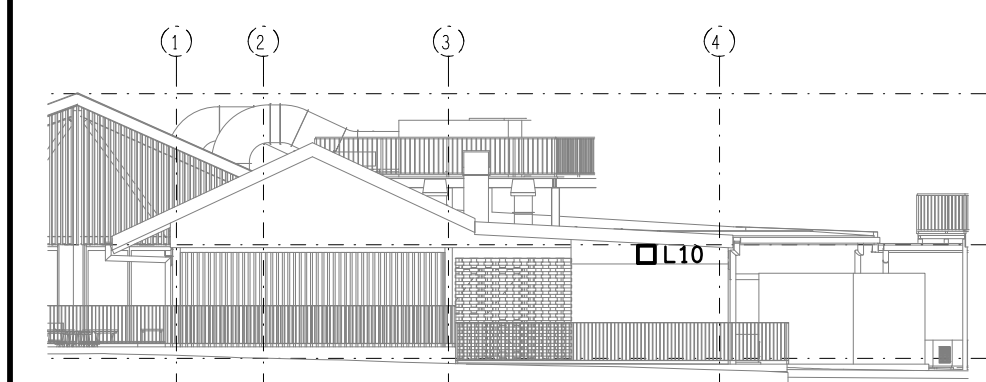
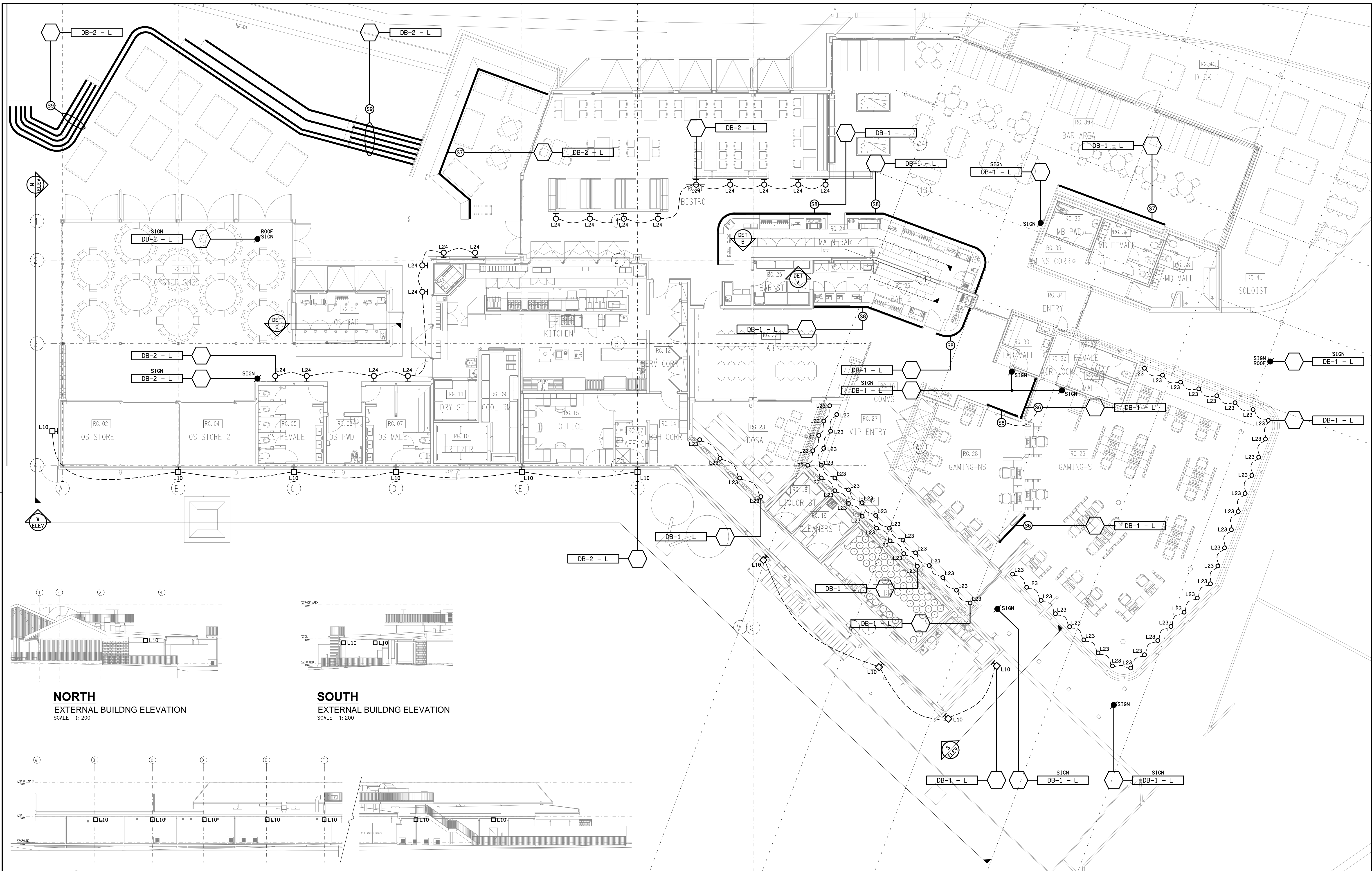
NOTE:
CORRUGATED CONDUIT MUST NOT BE USED
IN THE KITCHEN AND SERVERY AREAS.



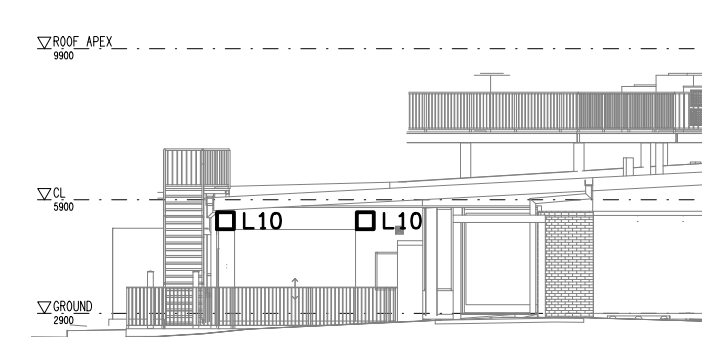
DETAIL D
GAMING ROOM FLOOR PLAN
SCALE 1: 50



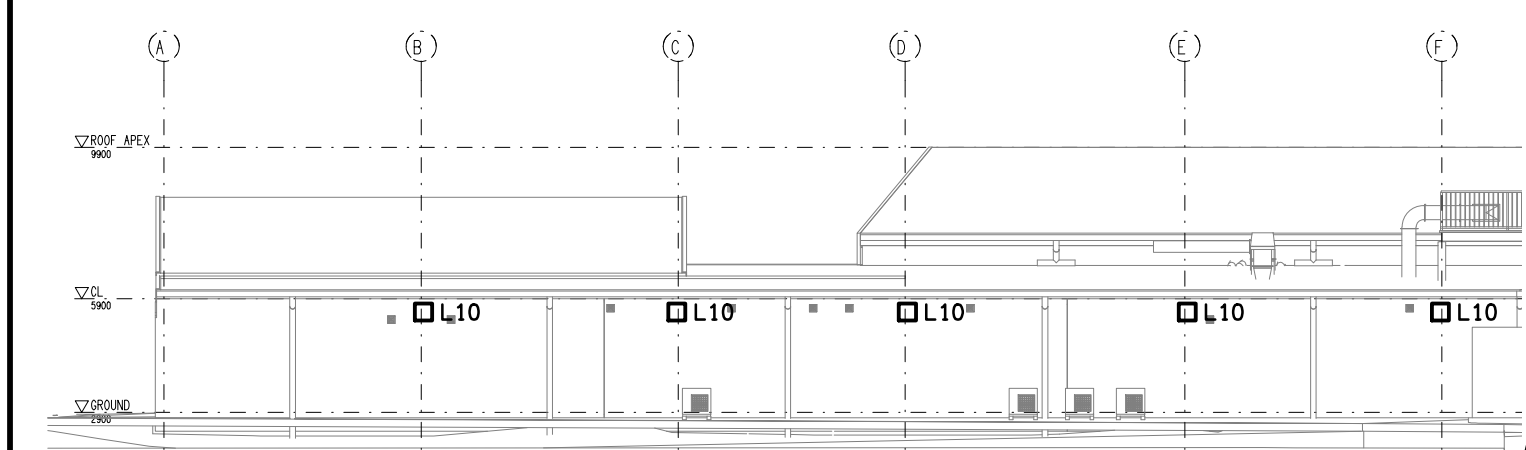
NOTE:
REFER TO DRAWING C2864a-E07.dwg
FOR ADDITIONAL JOINERY LIGHTING.



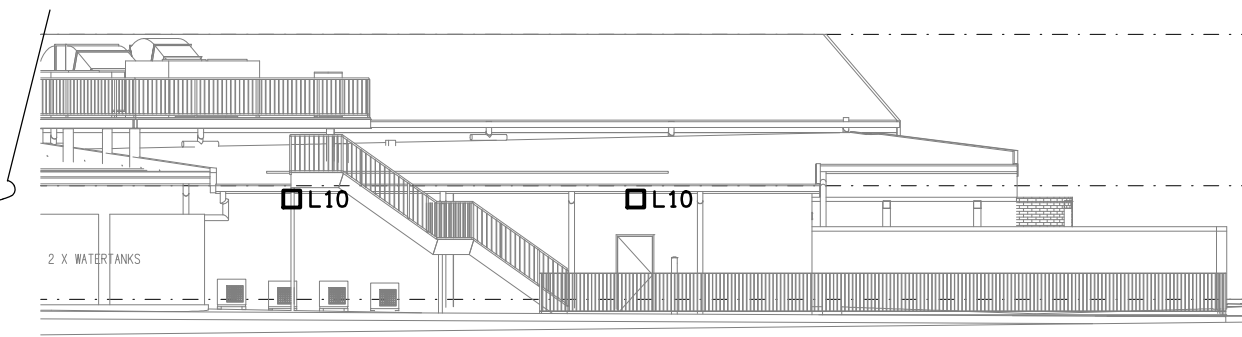
NORTH
EXTERNAL BUILDING ELEVATION
SCALE 1: 200

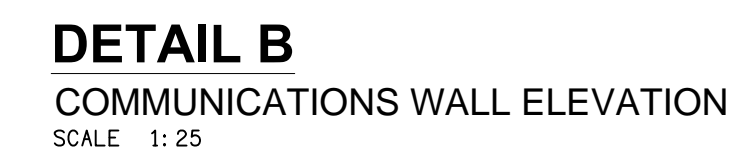


SOUTH
EXTERNAL BUILDING ELEVATION
SCALE 1: 200

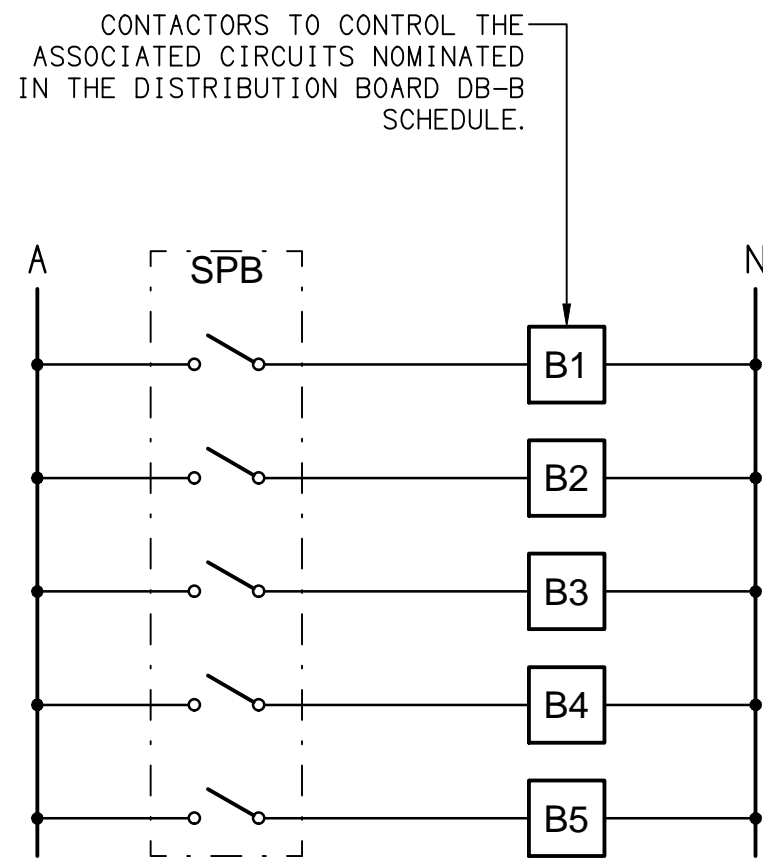


WEST
EXTERNAL BUILDING ELEVATION
SCALE 1: 200



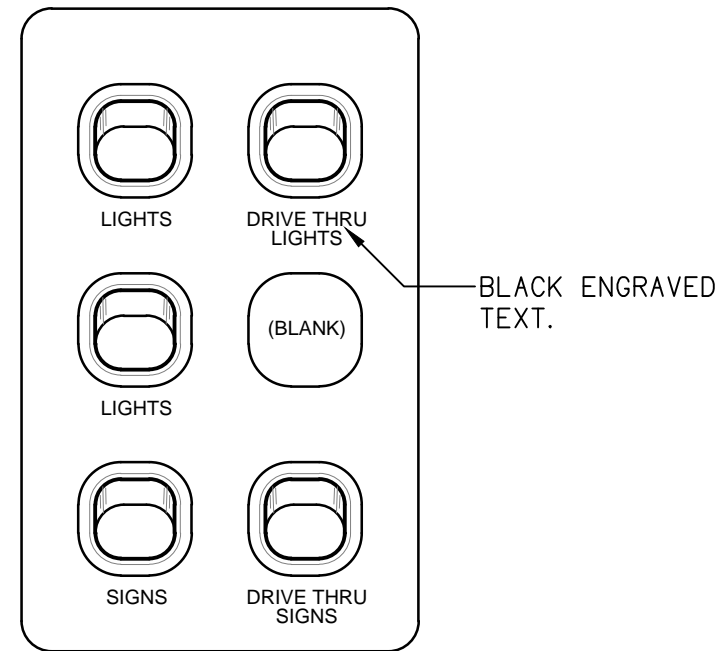


DRAWING: ELECTRICAL SERVICES BOTTLE SHOP FLOOR PLAN		PROJECT NO: C2864a	DRAWING NO: E08	REVISION: C
SCALE: 1:100 UNO	AT A1			



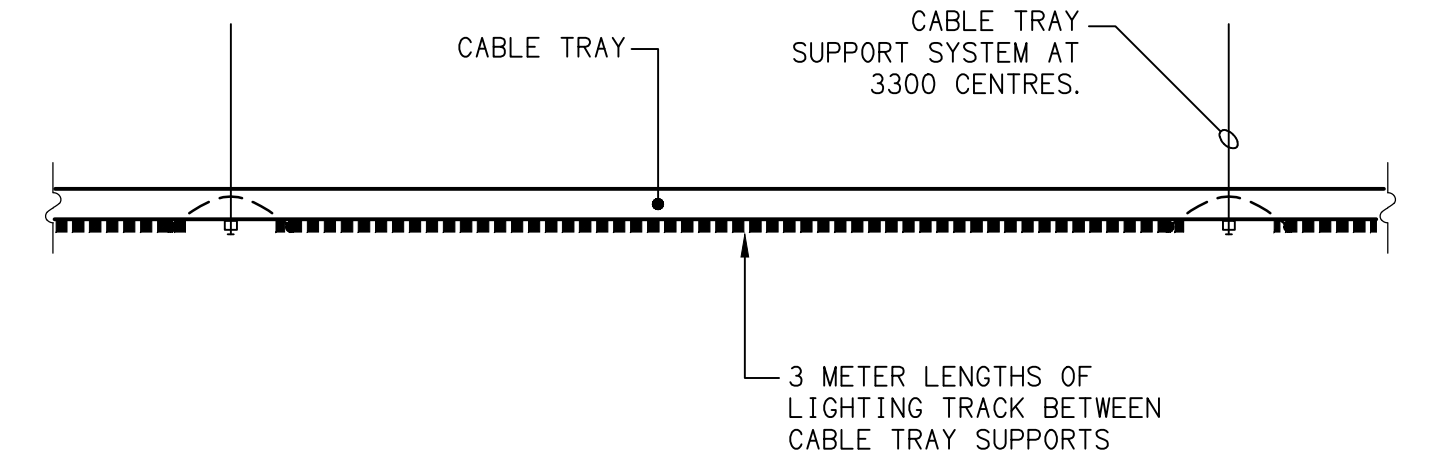
SCHEMATIC

SWITCHPANEL SPB CONFIGURATION
NOT TO SCALE



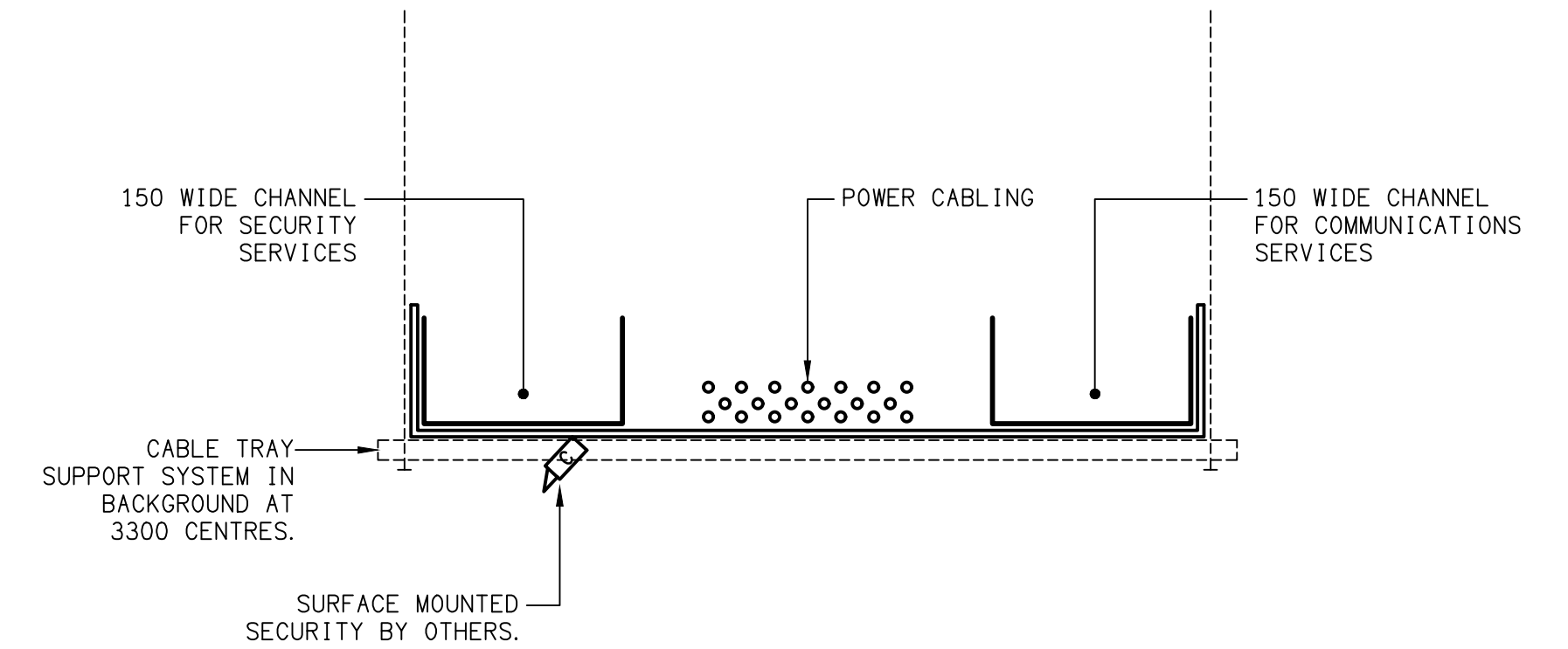
DETAIL

SWITCHPANEL SPB ELEVATION
NOT TO SCALE



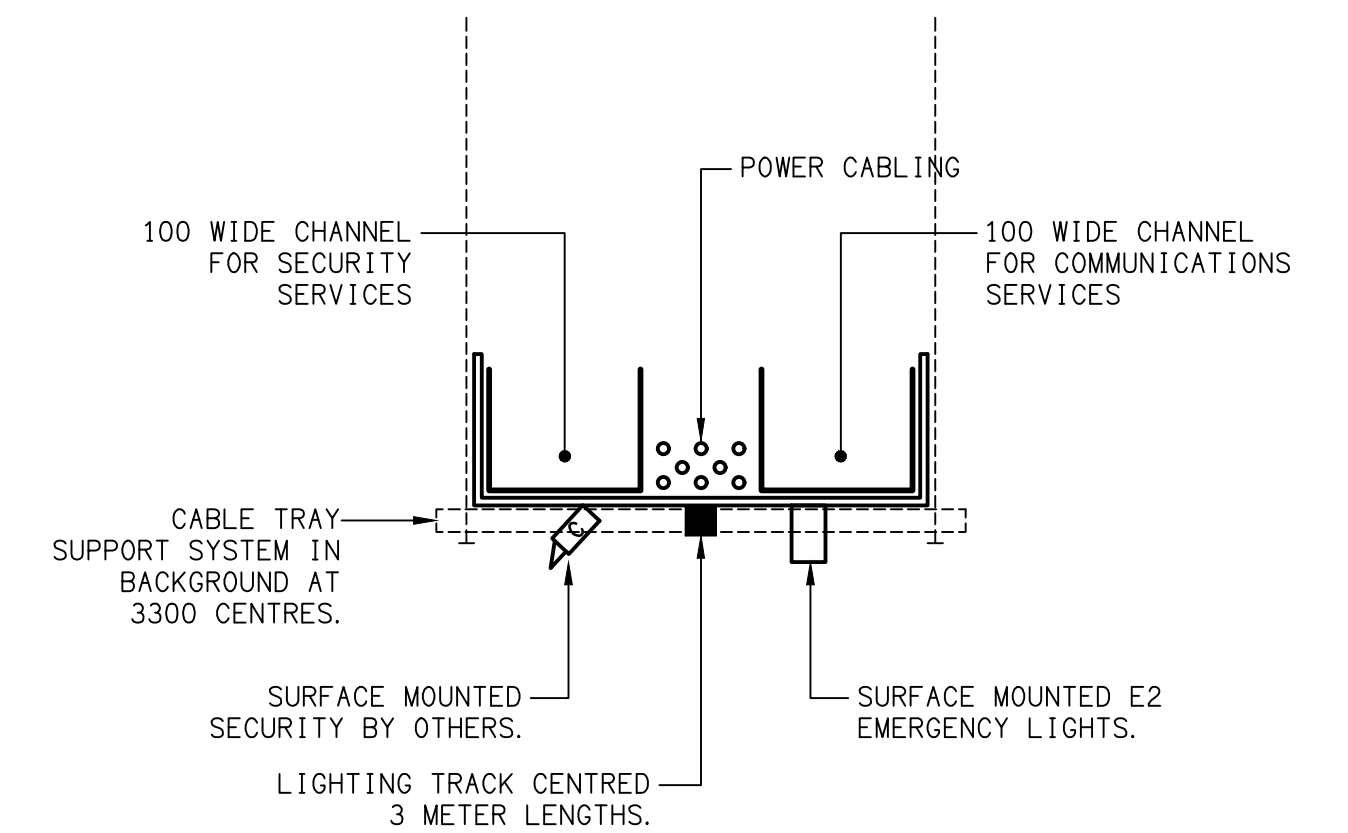
DETAIL A

GENERIC CABLE TRAY LINEAR ELEVATION
SCALE 1:25



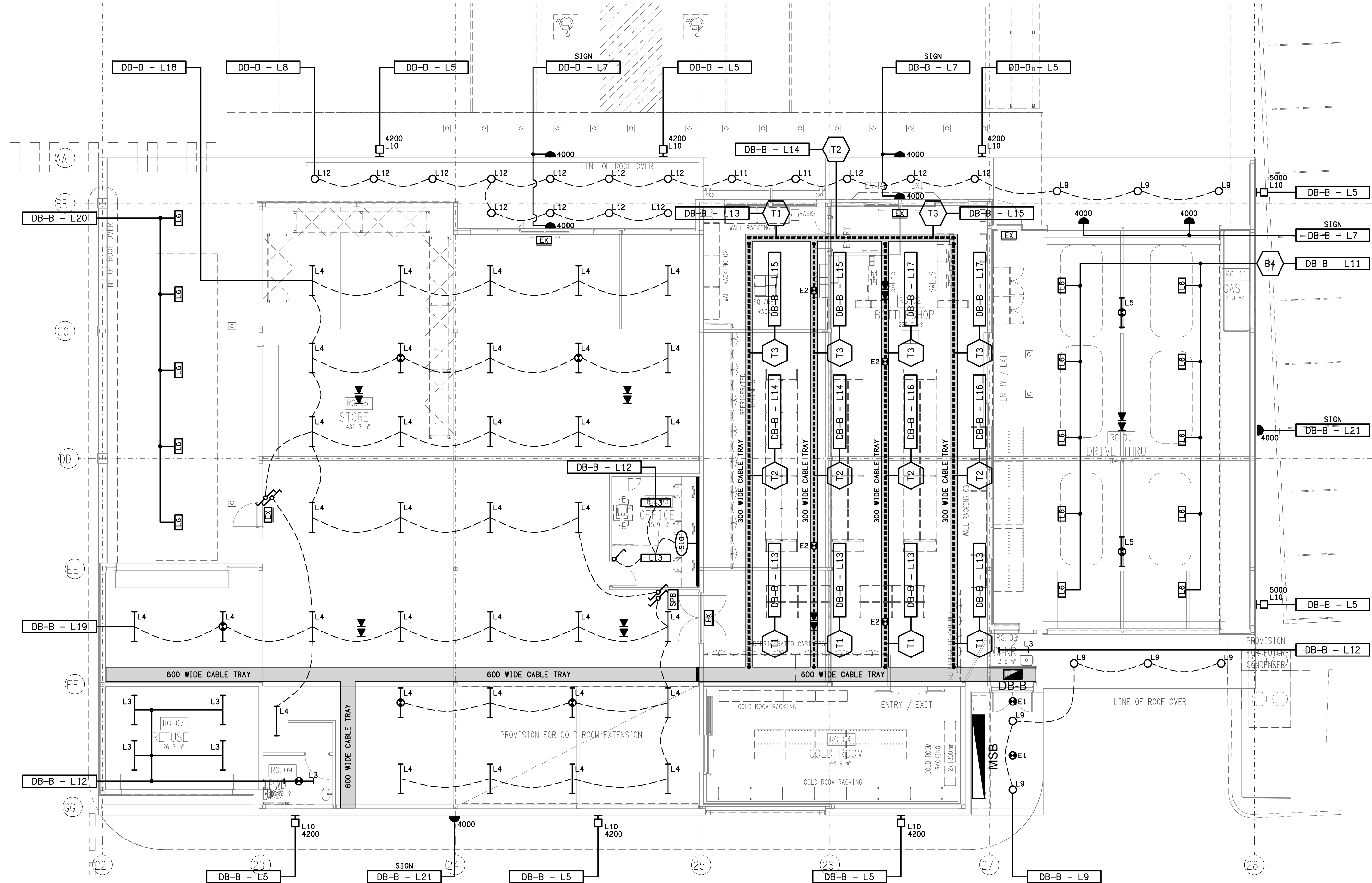
DETAIL B

600 WIDE CABLE TRAY SECTION
NOT TO SCALE



DETAIL C

300 WIDE CABLE TRAY SECTION
NOT TO SCALE



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PTY LTD
ACN 092 710 793
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IN PREFERENCE TO SCALE.
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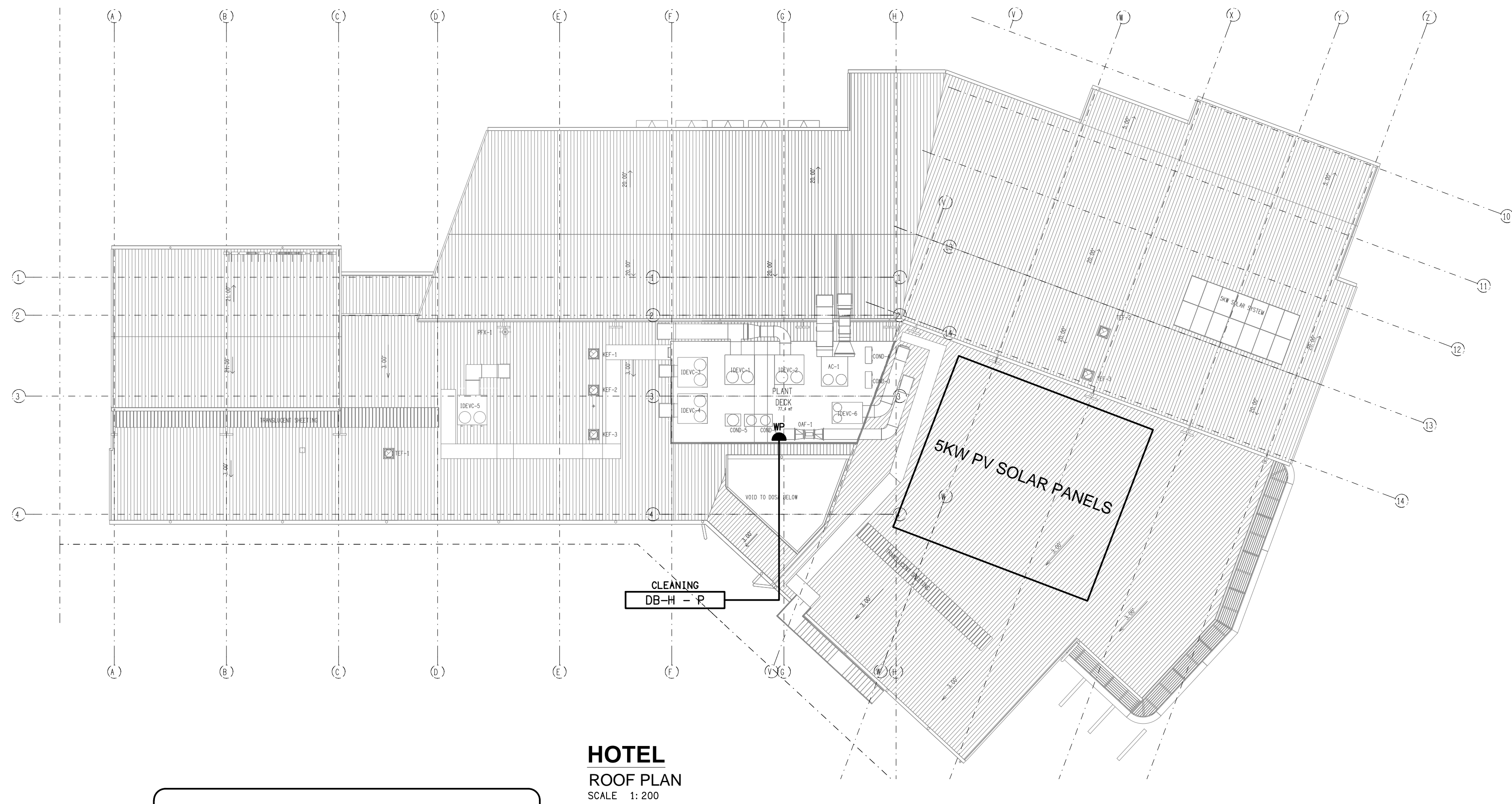
PROJECT:
**DRY DOCK ROAD HOTEL,
TWEED HEADS SOUTH**

CORNER DOCK ROAD & FRASER DRIVE, NEW SOUTH WALES

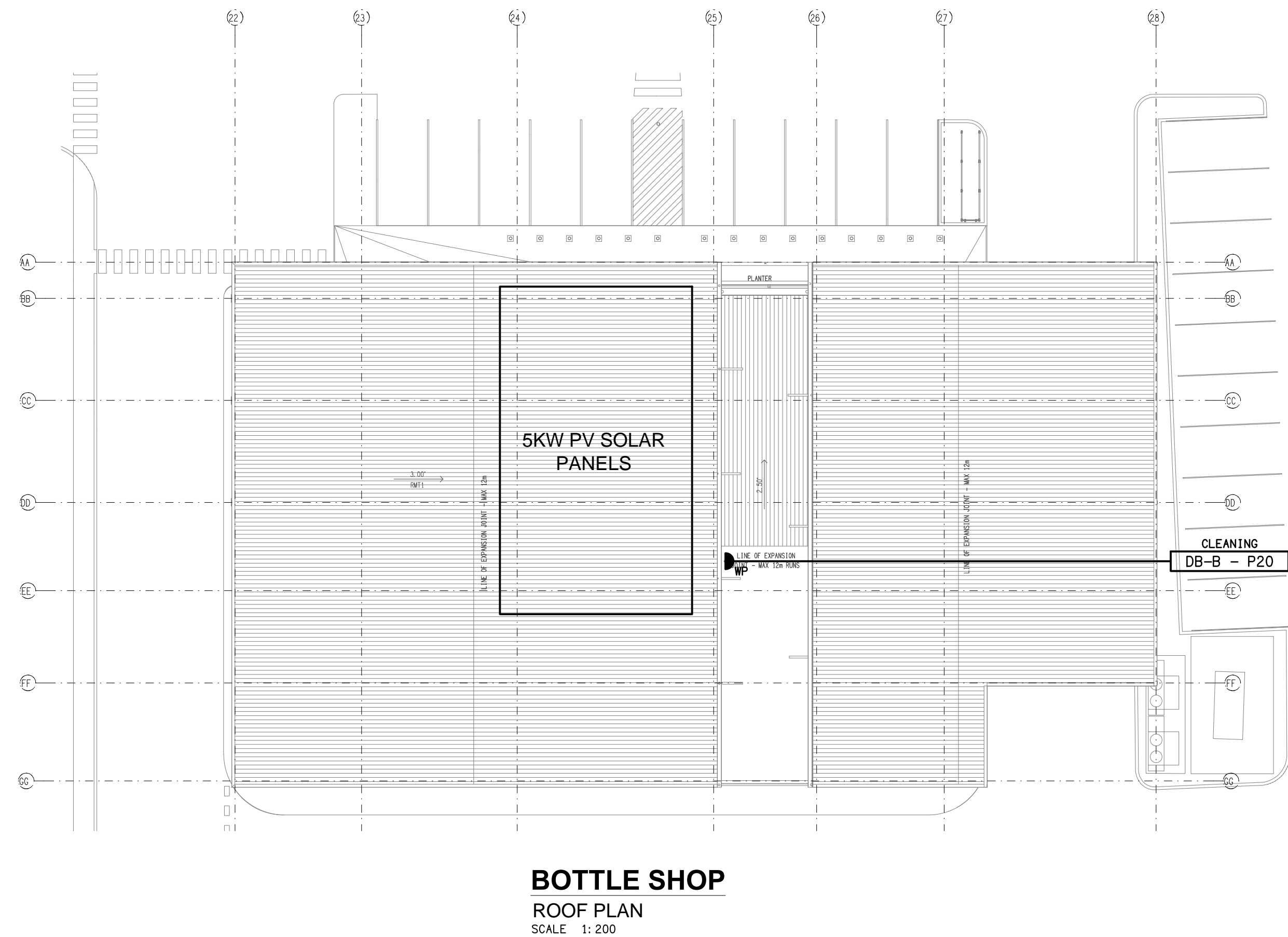
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REV:	DESCRIPTION:	DATE:

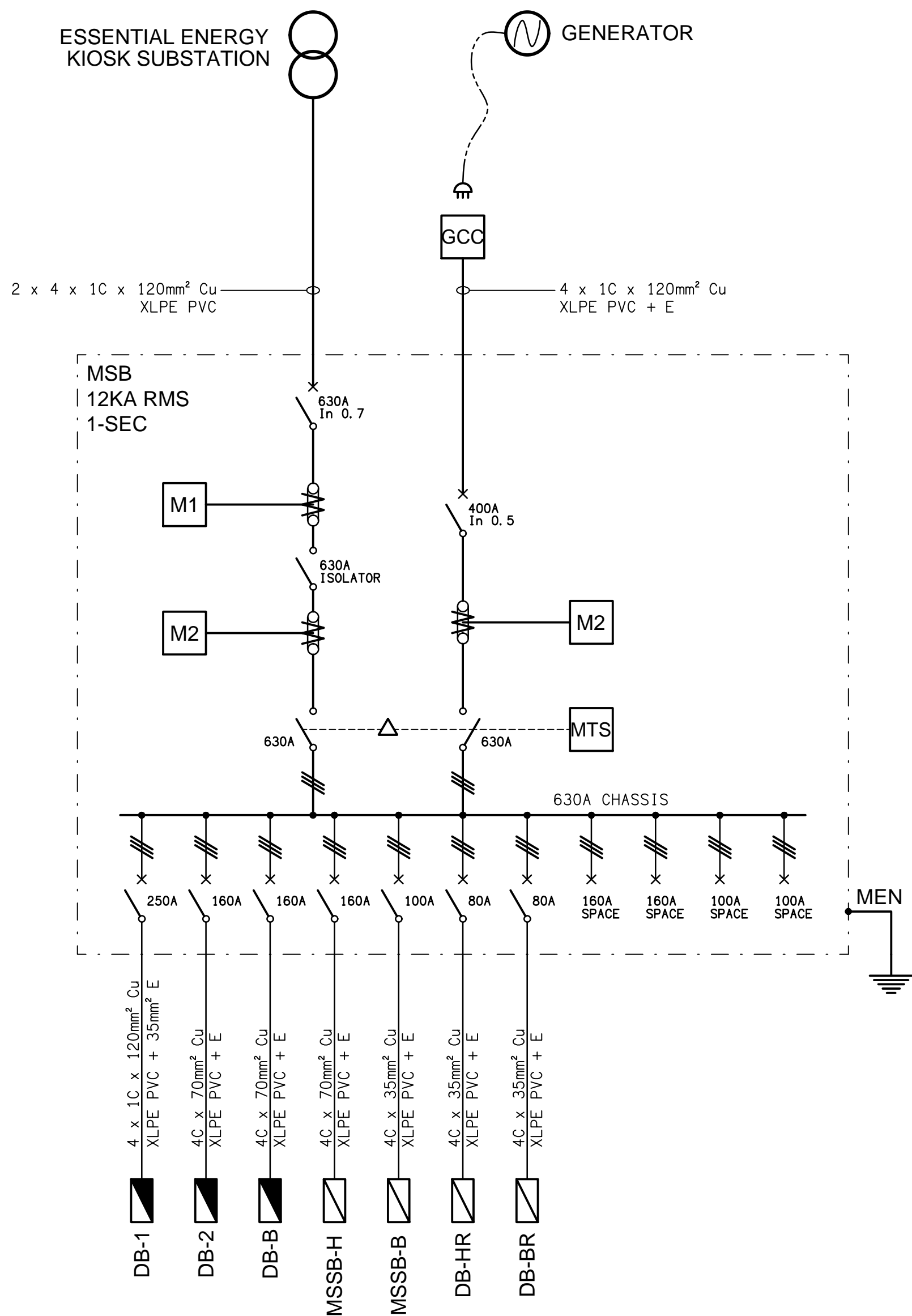
DRAWING:
**ELECTRICAL SERVICES
BOTTLE SHOP REFLECTED CEILING PLAN**

SCALE: 1:100	AT A1	PROJECT NO: C2864a	DRAWING NO: E09	REVISION: C
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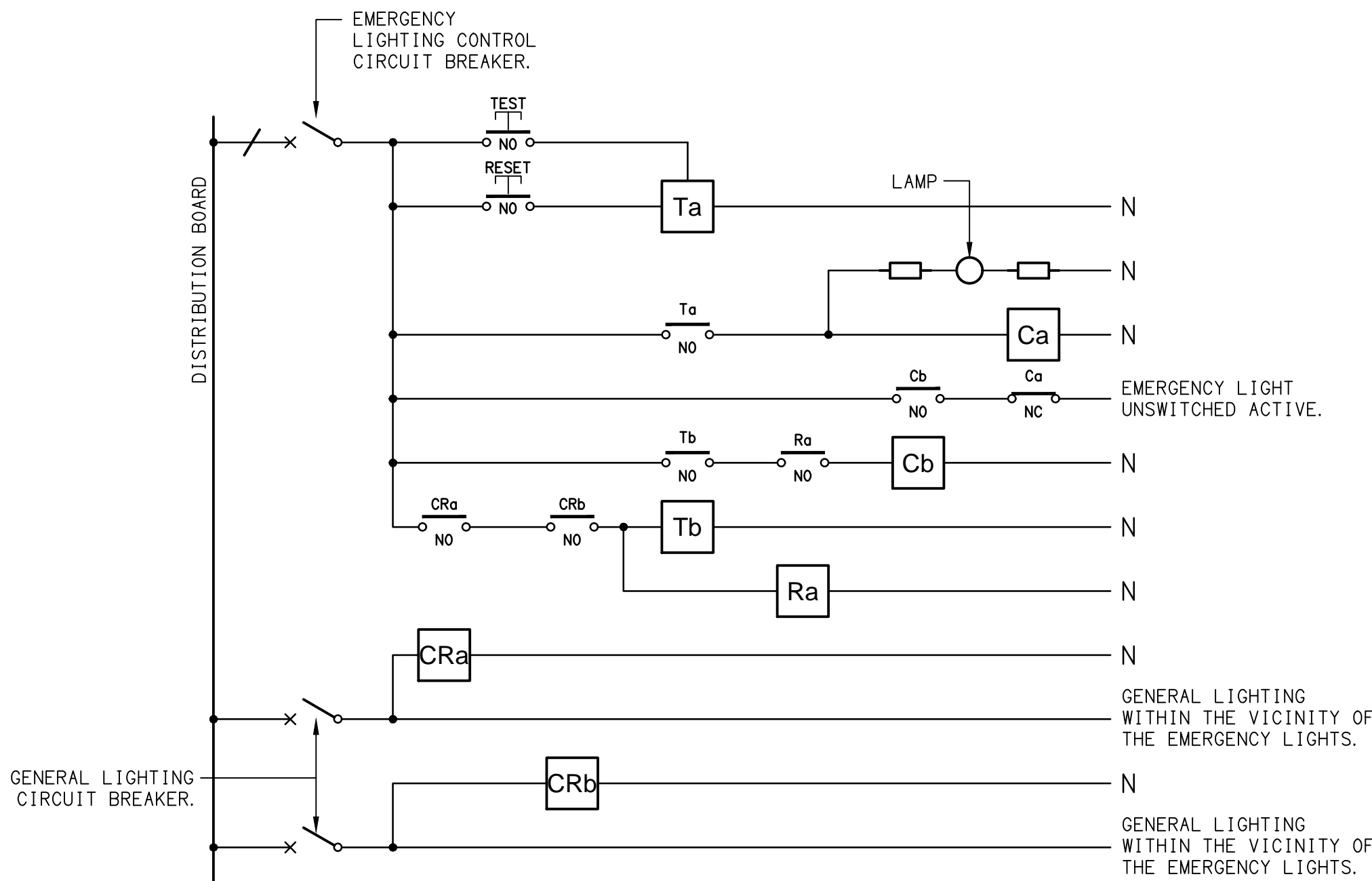
NOTE
ALL ELECTRICAL PENETRATIONS THROUGH THE ROOF SHEETING ARE TO BE IN LINE WITH THE STRUCTURAL OR MECHANICAL SERVICES PENETRATIONS TO AVOID DEDICATED FLASHINGS FOR THE ELECTRICAL SERVICES.





SCHEMATIC
POWER CONFIGURATION
NOT TO SCALE

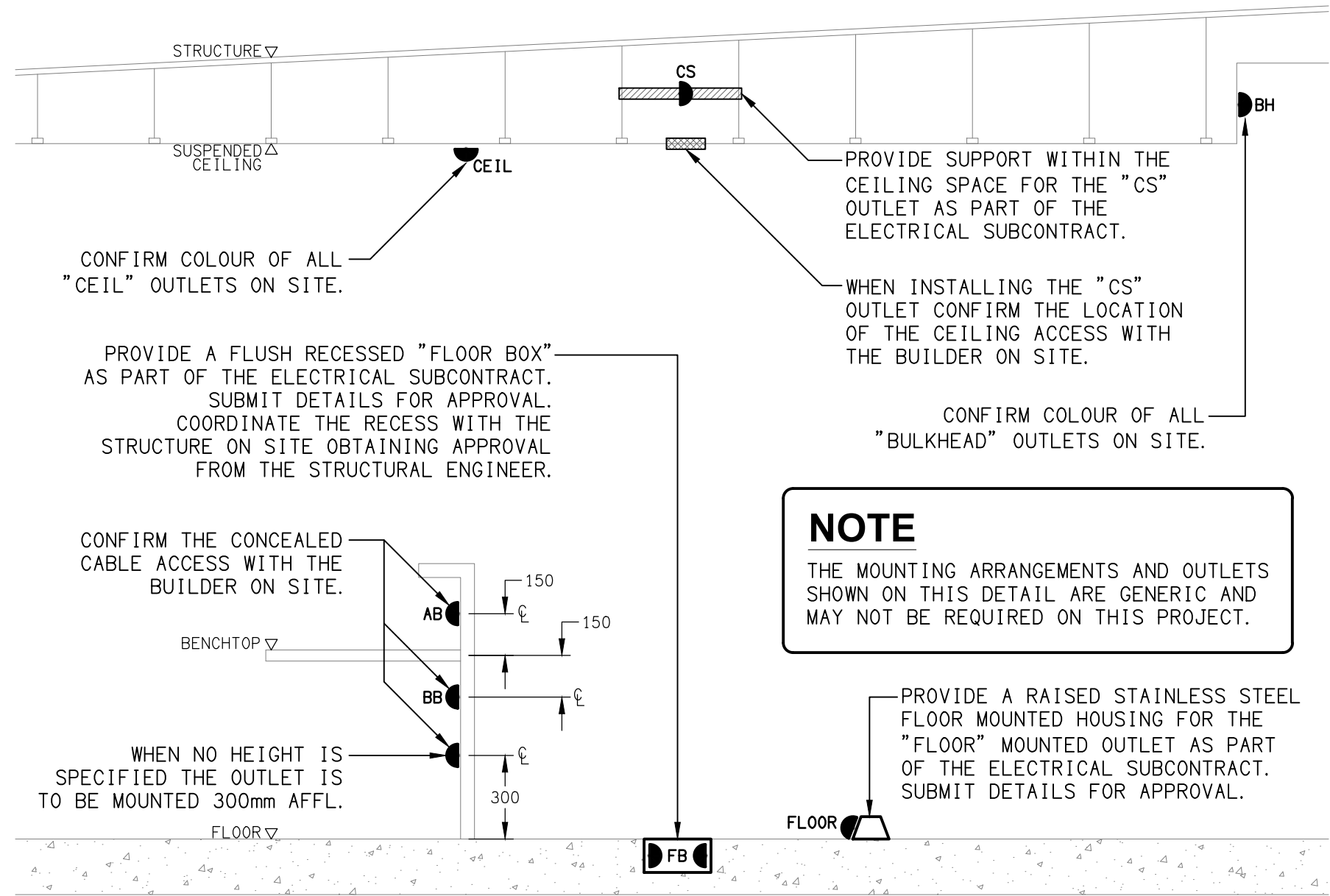
- EQUIPMENT:**
- TEST - TEST PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
 - RESET - RESET PUSH BUTTON MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
 - LAMP - AMBER TEST INDICATING LAMP MOUNTED ON THE DISTRIBUTION BOARD ESCUTCHEON.
 - Ta - ADJUSTABLE 0-3 HOUR TIMED RELAY.
 - Tb - 15 MINUTE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



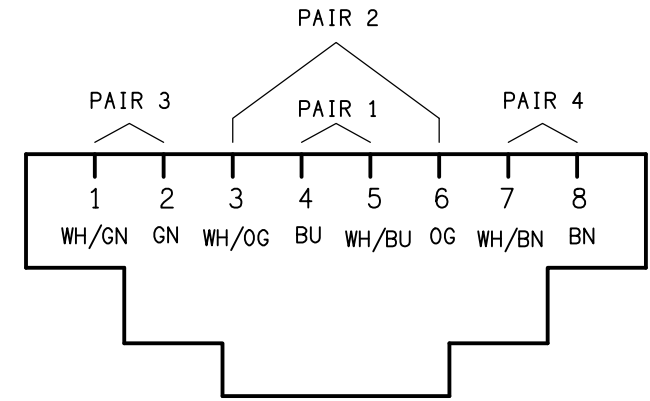
SCHEMATIC
EMERGENCY LIGHTING
NOT TO SCALE

NOTES

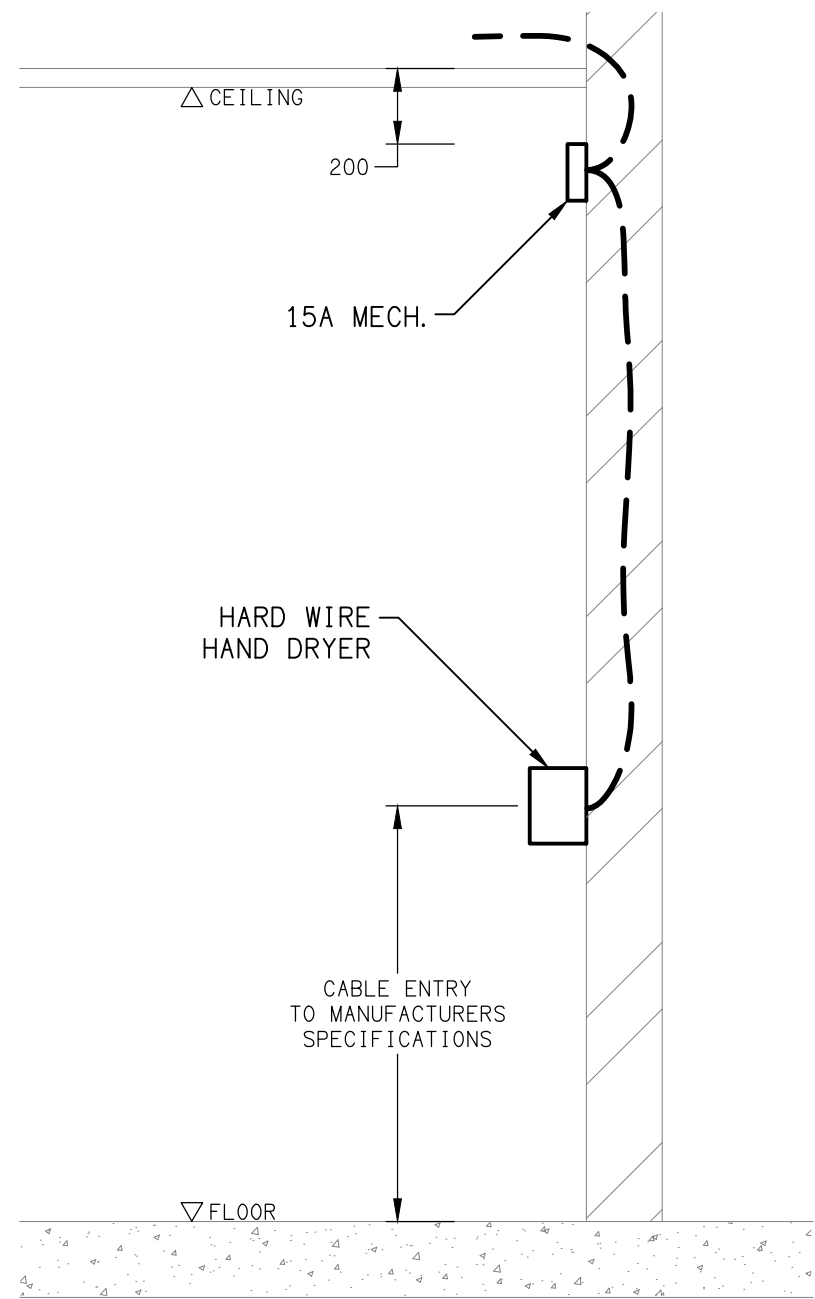
- THE EMERGENCY LIGHT UNSWITCHED ACTIVE / GENERAL LIGHTING SWITCHED ACTIVE CIRCUIT ARRANGEMENT AND CONTROL IS TYPICAL FOR ALL CIRCUITS SUPPLYING EMERGENCY LIGHTS.
- PROVIDE ADDITIONAL CONTROL RELAYS (CRx) CONFIGURED AS PER CRa AND CRb FOR ALL ADDITIONAL LIGHTING CIRCUITS THAT SUPPLY LIGHTS IN THE VICINITY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



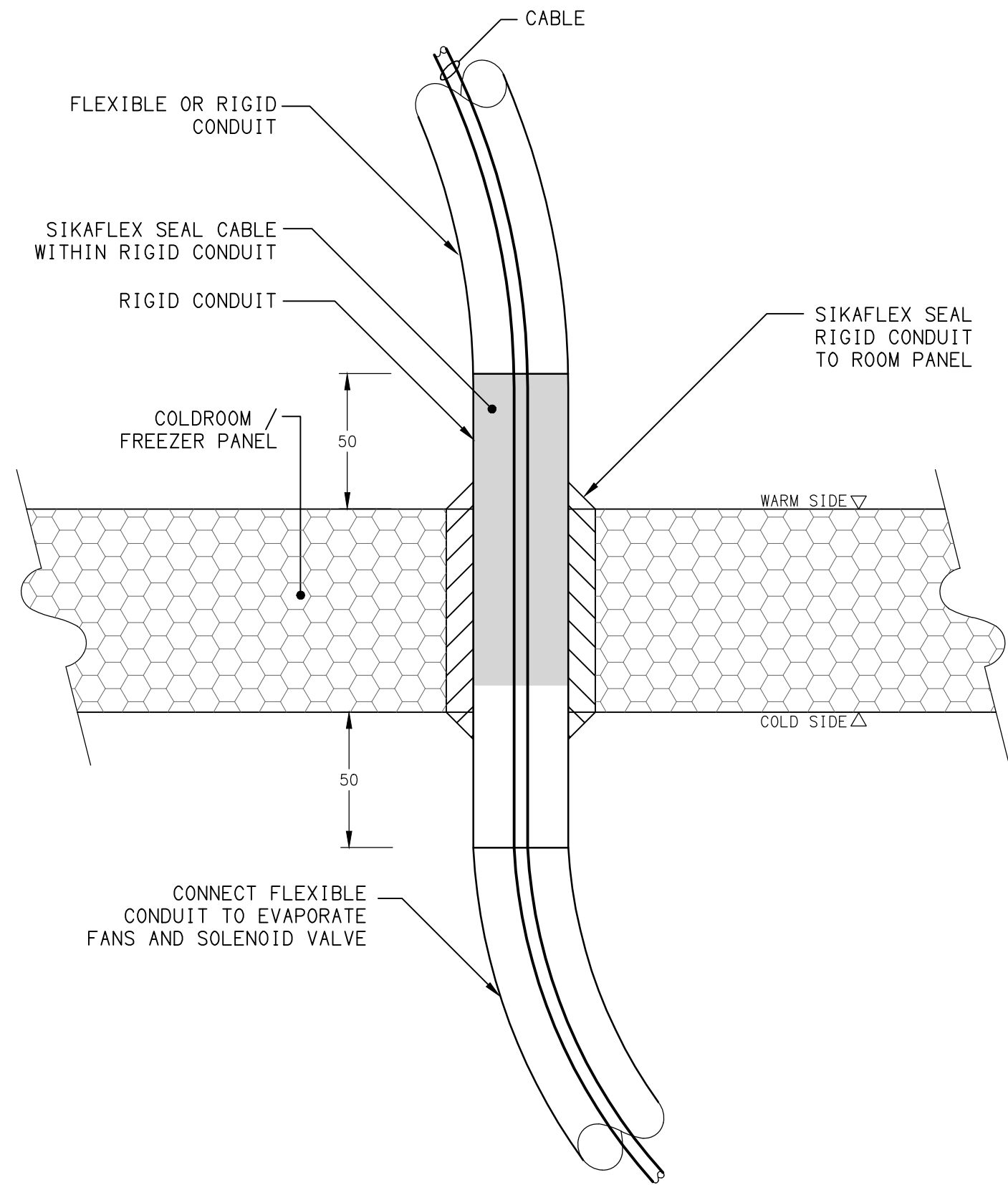
DETAIL
TYPICAL OUTLET MOUNTINGS
NOT TO SCALE



SCHEMATIC
RJ45 PINOUT CONFIGURATION
NOT TO SCALE



DETAIL
HAND DRYER CONNECTION
NOT TO SCALE



DETAIL
COOL ROOM CONDUIT PENETRATION
NOT TO SCALE

NOTES

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT IS TO BE UNDERTAKEN AS A DESIGN AND CONSTRUCT CONTRACT WITH THE ELECTRICAL SUB-CONTRACTOR TAKING RESPONSIBILITY FOR ALL ASPECTS OF THE ELECTRICAL SERVICES DESIGN, DOCUMENTATION AND INSTALLATION. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- DESIGN AND BUILDING APPROVAL CERTIFICATION.
- DESIGN DOCUMENTATION FOR APPROVAL.
- FOR CONSTRUCTION DOCUMENTATION.
- ELECTRICAL AUTHORITY APPLICATIONS, NEGOTIATIONS AND APPROVALS.
- SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.
- INSPECTIONS.
- TESTING AND COMMISSIONING.
- MAINTENANCE.
- CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.
- POWER DISTRIBUTION.
- LIGHTING.
- COMMUNICATIONS.
- AS CONSTRUCTED DOCUMENTS AND MAINTENANCE MANUAL.
- OPERATOR TRAINING.
- 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.

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.

ON THE DAY THE FACILITY OPENS FOR TRADING THE ELECTRICAL SUB CONTRACTOR MUST PROVIDE AN ELECTRICIAN ON SITE FOR THE INITIAL 12 HOURS OF TRADING.

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.

3. STANDARDS

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

- NCC BUILDING CODE OF AUSTRALIA.
- ELECTRICITY ACT.
- ELECTRICAL SAFETY ACT.
- ESSENTIAL ENERGY REQUIREMENTS.
- AS/NZS3000.
- AS3008.
- LOCAL BRIGADE.
- 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 DEPARTMENT OF ENVIRONMENT AND HERITAGE.
- NSW GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY.
- NSW FIRE AND EMERGENCY SERVICES.

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

ARRANGE WITH ESSENTIAL ENERGY TO HAVE A 630 AMP SUPPLY PROVIDED TO THE SITE FROM THE NEW KIOSK SUBSTATION. PROVIDE CONSUMERS MAINS FROM THE SUBSTATION TO A NEW MAIN SWITCHBOARD.

THE MSB IS TO CONTAIN SPACE FOR FOUR THREE PHASE CIRCUIT BREAKERS, SPACE FOR ENERGY MONITORING EQUIPMENT AND 24 SPARE DIN RAIL POLES FOR THE FUTURE CONNECTION SOLAR / BATTERIES AS PER J9D5 OF THE NCC BCA 2022. THE SPARE CIRCUIT BREAKER, ENERGY MONITORING EQUIPMENT AND DIN RAIL SPACES ARE TO BE LABELLED (RESERVED FOR SOLAR / BATTERIES).

PROVIDE AN ELECTRIC VEHICLE CHARGING CONTROL SYSTEM THAT HAS THE ABILITY TO MANAGE AND SCHEDULE CHARGING OF ELECTRIC VEHICLES IN RESPONSE TO TOTAL DEMAND OF THE BUILDING AS PER J9D4 OF THE NCC BCA 2022. INTERFACE THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM TO DB-E. SUBMIT DETAILS OF THE ELECTRIC VEHICLE CHARGING CONTROL SYSTEM FOR APPROVAL.

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- PLINTH MOUNTED MECHANICALLY FIXED TO THE WALL.
 - NATIONAL ELECTRICITY MARKET (NEM) COMPLIANT RETAIL METERING.
 - PROVIDE A COPY OF THE ESSENTIAL ENERGY APPROVAL OF THE MSB.
 - MANUAL GENERATOR CHANGE OVER FACILITY WITH A MECHANICAL INTERLOCK BETWEEN THE MAINS AND GENERATOR SUPPLY.
 - FACILITY TO CONNECT TEMPORARY GENERATOR MAINS OF THE SAME SIZE AS THE CONSUMERS MAINS THROUGH THE MSB PIT TO THE CHANGE OVER FACILITY.
 - IP66 FORM 4Aih
 - 316 STAINLESS STEEL OR ALUMINIUM ENCLOSURE, DOORS AND ESCUTCHEONS.
 - CUSTOM COLOUR POWDER COATED ENCLOSURE AND DOORS WITH THE ARCHITECT NOMINATING THE COLOUR.
- PROVIDE A FLASHING AROUND THE MSB TO THE SAME FINISH AS THE MSB DOORS SUCH THAT THERE ARE NO VISIBLE GAPS AROUND THE MSB.
- POWDER COATED GLOSS WHITE ESCUTCHEONS.
 - ENSURE THE MSB IS DESIGNED TO OPERATE IN DIRECT SUNLIGHT WITH AN AMBIENT TEMPERATURE OF 45 DEGREES.
 - DOORS ON ALL CUBICLES WITH 3 POINT 92268 KEY LOCKABLE FLUSH HANDLES OTHER THAN THE METER CUBICAL DOOR WHICH IS TO HAVE AN ESSENTIAL ENERGY PADLOCK.
 - LIFT OFF HINGES ON ALL DOORS AND ESCUTCHEONS.
 - 1/4 TURN LATCHES AND D HANDLES ON ALL ESCUTCHEONS.
 - ALL SWITCHGEAR TO BE SCHNEIDER OR NHP/ TERASAKI.
 - PROVIDE SHOP DRAWINGS FOR APPROVAL.
 - ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.
 - ESSENTIAL ENERGY PADLOCK ON THE METER CUBICAL.
 - TWO ESSENTIAL ENERGY PADLOCK KEYS AND TWO 92268 KEYS.

PROVIDE THE DISTRIBUTION BOARDS AS FOLLOWS:

- WALL MOUNTED.
- IP44 FORM 1.
- LIGHT GREY ENCLOSURE WHITE ESCUTCHEON.
- 3 POINT 92268 KEY LOCKABLE FLUSH 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 OR NHP/ TERASAKI.
- PROVIDE SHOP DRAWINGS FOR APPROVAL.
- 25% SPARE POLES AT PRACTICAL COMPLETION.
- ALL COMPONENTS ARE TO BE LABELLED WITH NON-STICK LABELS.

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.

DO NOT USE CORRUGATED CONDUIT UNDER ANY BARS, SERVERIES, OR IN THE KITCHENS. ALL OUTLETS AND SWITCHES WITHIN THE KITCHENS ARE TO BE IP56 SERIES OR STAINLESS STEEL.

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

- POWER DISTRIBUTION.
 - ESSENTIAL ENERGY NEGOTIATIONS AND APPLICATION.
 - ESSENTIAL ENERGY KIOSK SUBSTATION.
 - RETAIL METERING.
 - CONSUMERS MAINS.
 - MAIN SWITCHBOARD.
 - SUBMAINS.
 - DISTRIBUTION BOARDS.
 - PV SYSTEMS INCLUDING THE ESSENTIAL ENERGY APPLICATION.
 - CABLE ACCESS WAYS.
 - CIRCUITS.
 - ISOLATORS AND OUTLETS.
 - TESTING AND COMMISSIONING.
 - THERMOSCAN THE MSB AND ALL DISTRIBUTION BOARDS ONE WEEK AFTER PRACTICAL COMPLETION. PROVIDE A CHART RECORDING OF THE MAINS CURRENT, VOLTAGE, FREQUENCY FOR THE FIRST 14 DAYS FOLLOWING PRACTICAL COMPLETION AND SUBMIT THE THERMOSCAN CHART RECORDING AND FOR APPROVAL.
- PROVIDE A 33KW SOLAR PHOTOVOLTAIC SYSTEM IN ACCORDANCE WITH AS 5033 WITH THE PV INSTALLATION UNDERTAKEN BY AN ACCREDITED INSTALLER MEMBER OF THE CLEAN ENERGY COUNCIL.

PROVIDE PV PANELS WITH AN EFFICIENCY IN EXCESS OF 20% AND A MANUFACTURERS 15-YEAR PRODUCT WARRANTY AND A PERFORMANCE WARRANTY GUARANTYING 80% OF THE PANELS RATED OUTPUT AFTER 25 YEARS. PROVIDE AN INVERTER THAT HAS A W1 F1 INTERNET CONNECTION. A LOSS OF LESS THAN 5% AND A MANUFACTURERS PRODUCT WARRANTY OF 5 YEARS. PROVIDE THE PV SYSTEM DC AND AC CABLING THAT HAS A LESS THAN COMBINED LOSS LESS THAN 3%. PROVIDE SHOP DRAWINGS AND TECHNICAL DETAILS OF THE PV SYSTEM INCLUDING ALL COMPONENTS AND THE PV PANEL LAYOUT FOR APPROVAL.

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

ALL LIGHT SOURCES ARE TO BE SOLID STATE WITH AN AVERAGE LIFE OF 50,000 HOURS AND A MANUFACTURERS WARRANTY OF 5 YEARS. THE FRONT OF HOUSE LIGHTING IS TO BE 3,000K AND THE BACK OF HOUSE LIGHTING 4,000K. COORDINATE THE FITTING COLOURS WITH THE ARCHITECTURE / INTERIORS.

PROVIDE DIMMING OF THE FRONT OF HOUSE LIGHTING UTILISING A PHILIPS DYNALITE CONTROL SYSTEM. ALL DIMMING IS TO BE VIA DALI. PHASE DIMMING (TRAILING EDGE OR LEADING EDGE IS NOT ACCEPTABLE) THE FRONT OF HOUSE LIGHTING CURRENTLY DETAILED HAS BEEN INCLUDED AS A BASE LINE THAT MUST BE ALLOWED FOR. UNDERTAKE A DESIGN PROCESS WITH ALL RELEVANT PARTIES TO FURTHER DEVELOP THE FRONT OF HOUSE LIGHTING TO THE SATISFACTION OF ALL PARTIES.

DO NOT SUPPLY MORE THAN 25 DRIVERS FROM A SINGLE CIRCUIT.

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.)

NOTES

7. LIGHTING CONTINUED

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 MOUNTED IN DB-3 IN ACCORDANCE WITH AS 2293.1.

8. COMMUNICATIONS CABLING

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES THE PROVISION OF A NEW NBN SERVICE TO THE SITE WITH A NBN NTDs ADJACENT CR-A AND A SECOND NBN NTD IN THE CAFE TENANCY. ARRANGE FOR THE NBN SERVICES TO BE INSTALLED INCLUDING ALL CABLE ACCESS WAYS AND DOCUMENTATION IN ACCORDANCE WITH THE NBN REQUIREMENTS. THE FITOUT OF THE COMMUNICATIONS SERVICES WITHIN THE CAFE TENANCY BEYOND THE PROVISION OF THE NBN NTD DOES NOT FORM PART OF THESE WORKS.

PROVIDE THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT AS A COMMSCOPE OR MOLEX CAT 6 INSTALLATION WITH A 15 YEAR MANUFACTURERS PERFORMANCE WARRANTY. THE COMMUNICATIONS CABLING IS TO BE RUN TO PATCH PANELS WITHIN RACK CR-A. RACK CR-B IS TO BE USED TO HOUSE THE CCTV PATCH PANELS AND CCTV ACTIVE EQUIPMENT. RACKS CR-C AND CR-D ARE TO HOUSE THE AUDIO-VISUAL EQUIPMENT.

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

- NBN APPLICATION AND LEADIN SERVICES.
- NBN CABLE ACCESS WAYS INCLUDING THE PCD AND NTDs.
- COMMUNICATIONS RACKS CR-A, CR-B, CR-C AND CR-D.
- PATCH PANELS.
- CAT 6 COMMUNICATIONS OUTLETS AND CABLING.
- CABLE ACCESS WAYS.
- TESTING AND COMMISSIONING.

IN ADDITION TO THE COMMUNICATIONS OUTLETS SHOWN ON THE 75% DRAWINGS ALLOW AN ADDITIONAL 24 COMMUNICATIONS OUTLETS WITH THE POSITIONS NOMINATED BY THE OPERATOR PRIOR TO ROUGHIN FOR WAPS, AUDIO CONTROLS ETC.

9. 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.
- 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.
- SUS - MOUNT SUSPENDED FROM CEILING.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793		THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.		PROJECT: DRY DOCK ROAD HOTEL, TWEED HEADS SOUTH		A PRELIMINARY 09/12/2024	
TRADING AS: ELECTRICAL DESIGN GROUP		USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.		DRAWING: ELECTRICAL SERVICES NOTES		REV: DESCRIPTION: DATE:	
ALL DIMENSIONS TO BE VERIFIED ONSITE.		ELECTRICAL DESIGN GROUP BRISBANE		CORNER DOCK ROAD & FRASER DRIVE, NEW SOUTH WALES		SCALE: NOT TO SCALE AT A1	
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