



# ELECTRICAL DESIGN GROUP

ELECTRICAL BUILDING SERVICES CONSULTANTS

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C3416a - ELLIOT DRIVE, STAPYLTON

C3416a-0001(B).xls

ELECTRICAL SERVICES CONTRACT DOCUMENT SCHEDULE

REVISION B - 19 FEBRUARY 2025

ISSUING INFORMATION		DATE OF ISSUE							
	DAY	10	19						
	MONTH	02	02						
	YEAR	25	25						
REASON FOR ISSUE		P	P						
A = APPROVAL    C = CONSTRUCTION    N = COORDINATION		P = PRELIMINARY		T = TENDER					

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DOCUMENTS		REVISION							
C3416a-E01.dwg	LEGEND & NOTES	B							
C3416a-E02.dwg	SITE PLAN & DETAILS	A	B						
C3416a-E03.dwg	FLOOR PLAN	A	B						
C3416a-E04.dwg	REFLECTED CEILING PLAN	A							
C3416a-0001.xls	CONTRACT DOCUMENT SCHEDULE	A	B						
C3416a-0001.zip	FITTING & OUTLET DATASHEETS	A							

**LEGEND**

**THE LIGHT FITTING SUPPLIER CONTACT DETAILS MAY BE AVAILABLE ON THE EDG WEBSITE VIA THE FOLLOWING LINK [www.edg.net.au/Links/Lighting.htm](http://www.edg.net.au/Links/Lighting.htm)**

TYPE	LAMPS	DESCRIPTION	COLOUR / ACCESSORY	CATALOGUE No
L1	50W 5000K LED	MOUNT FITTING ON BUILDING AS HIGH AS PRACTICAL	BLACK	MELEC ML-ROX-50-5K-PE-BK
L2	50W 5000K LED	FITTING MOUNTED ON A 8M POLE.	BLACK FITTING BLACK POLE	MELEC ML-ROX-50-5K-PE-BK
L3	150W 5000K LED	FITTING MOUNTED ON A 14M POLE.	BLACK FITTING BLACK POLE	MELEC ML-ROX-150-5K-PE-BK
L4	100W 4000K LED	ROD SUSPENDED HIGH BAY C/W INTEGRAL DRIVER	BLACK	EQUAL TO GAMMA ILLUMINATION ORBIT 881538
L5	45W LED 4000K	1200 LONG IP65 DIFFUSED BATTEN C/W INTEGRAL ELECTRONIC CONTROL GEAR AND A NON MAINTAINED AS2293 EMERGENCY PACK SUSPENDED / SURFACE MOUNTED AS REQUIRED. THE L5 FITTINGS ARE NOT SWITCHED AND ARE TO ONLY OPERATE UPON POWER SUPPLY FAILURE IN ACCORDANCE WITH AS2293	NA	EQUAL TO GAMMA ILLUMINATION STORM 1311-4K
L6	34W 4000K LED	600 x 600 LAY IN FLAT PLATE LED FITTING C/W REMOTE DRIVER MOUNTED IN THE T-BAR	WHITE TRIM	GAMMA ILLUMINATION AXIS 1548-4K 34W
L7	8W 3000K LED	AMENITY RECESSED DOWNLIGHT C/W REMOTE DRIVER	WHITE	EQUAL TO GAMMA ILLUMINATION NYLO 1004-WFL-3K-W
E1	LED	EMERGENCY LIGHT: RECESSED NON-MAINTAINED EMERGENCY LIGHT. AS2293 CLASSIFICATION CO-D40 - C90-D40.	WHITE	CLEVERTRONICS LCFLED
EX	LED	EXIT LIGHT: MAINTAINED 24M VIEWING DISTANCE EXIT LIGHT C/W DIFFUSERS & DIRECTIONAL ARROWS AS SHOWN. CEILING SURFACE MOUNT OR WALL MOUNT BETWEEN 2100mm & 2700mm AFFL IF THERE IS NO VERTICAL SURFACE TO MOUNT THE FITTING ON WITHIN THIS RANGE CONFIRM THE MOUNTING HEIGHT WITH THE ENGINEER. PROVIDE A CUSTOM WHITE COUNTER LEVER MOUNTING BRACKET AS REQUIRED AS2293 CLASSIFICATION CO-D8 - C90-E3.2.	WHITE	CLEVERTRONICS LUBPRO-SM
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 SELECTION BY CONTRACTOR
		ONE-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000
		TWO-WAY LIGHT SWITCH C/W CIRCUIT IDENTIFICATION ON THE FACEPLATE BEHIND THE SURROUND MOUNTED AT 1000mm AFFL UNLESS NOTED OTHERWISE.	WHITE	CLIPSAL C2000
		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
		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
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
		SPECIAL PURPOSE OUTLET TYPE AS NOTED. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.		
		SINGLE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.		CLIPSAL WHT20
		THREE-PHASE WEATHERPROOF ISOLATOR. MOUNT AT 1350mm AFFL U.N.O. RATING 20A U.N.O. CONNECT TO EQUIPMENT VIA FLEXIBLE CONDUIT.		CLIPSAL WHT35
		RJ45 CAT-6 COMMUNICATIONS OUTLET, CABLED BACK TO THE COMMUNICATIONS RACK CR-A. TERMINATED ONTO FACILITY PATCH PANELS VIA 4-PAIR CAT-6 UTP CABLE. MOUNT UP TO 3 RJ45 OUTLETS PER MULTI-GANG FACEPLATE WITH SEPARATE PERMANENT LABELLING FOR EACH OUTLET.	WHITE	CLIPSAL C2000
PCD		NBN COMPLIANT PREMISES CONNECTION DEVICE AS PER THE PCD DETAIL 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.		
NTD		NBN COMPLIANT NETWORK TERMINATION UNIT TO BE PROVIDED IN ACCORDANCE WITH THE NBN REQUIREMENTS. CONNECT THE NBN NTD TO A DEDICATED PATCH PANEL WITHIN THE COMMUNICATIONS RACK VIA TWO CONCEALED CAT 6 RJ45 CABLES. THESE NTD CONNECTION CABLES ARE TO BE A DIFFERENT COLOUR TO THE REMAINING COMMUNICATIONS CABLES.		
CR-A		PROVIDE CR-A AS A 600 DEEP WALL MOUNTED HINGED 19 INCH 18RU COMMUNICATIONS RACK REPLACING THE EXISTING RACK. PROVIDE THE RACK WITH PATCH PANELS TO ACCOMMODATE THE NTD TIE CABLES AND COMMUNICATIONS OUTLET CABLES. PROVIDE DETAILS OF THE RACK FOR APPROVAL PRIOR TO ORDERING.		
DB-A		DISTRIBUTION BOARD DB-A INTEGRAL TO THE MAIN SWITCHBOARD		
MSB		SURFACE MOUNTED MAIN SWITCHBOARD INCORPORATING THE METERING REFER TO THE NOTES AND SCHEMATIC FOR ADDITIONAL REQUIREMENTS PROVIDE A SHOP DRAWING OF THE MSB FOR APPROVAL.		
M		QCEM COMPLIANT DIRECT WIRED METER		

**NOTES**

1. EXTENT OF WORKS

THE ELECTRICAL SERVICES SUB-CONTRACT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:  
 - SUPPLY AND INSTALLATION OF ALL COMPONENTS FORMING PART OF THE ELECTRICAL SERVICES.  
 - CO-ORDINATION.  
 - INSPECTIONS.  
 - TESTING AND COMMISSIONING.  
 - MAINTENANCE.  
 - CABLING, CABLE SUPPORT SYSTEMS AND ACCESS.  
 - POWER DISTRIBUTION.  
 - LIGHTING.  
 - COMMUNICATIONS CABLING.  
 - ALL MINOR COMPONENTS AND INCIDENTAL WORKS NOT SPECIFICALLY REFERRED TO, HOWEVER NECESSARY TO COMPLETE THE ELECTRICAL SERVICES INSTALLATION SUCH THAT IT IS HANDED OVER COMPLETE, OPERATIONAL AND FIT FOR THE INTENDED USE.

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

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

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 CONTRACTORS RESPONSIBILITY TO ENSURE THAT THE INSTALLATION IS FIT FOR PURPOSE AND IS PROVIDED AS A COMPLETE WORKING INSTALLATION. IT IS THE ELECTRICAL SUB CONTRACTORS 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 UNLESS APPROVED BY THE ARCHITECT. 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 ON SITE 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 CONTRACTORS RESPONSIBILITY TO ENSURE ALL ELECTRICAL SERVICES WORKS ARE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FOLLOWING. REFER ANY DISCREPANCIES BETWEEN THE REQUIREMENTS OF THE FOLLOWING AND/OR THE ELECTRICAL SERVICES DOCUMENTS AND INSTRUCTIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO THE PLACING OF ORDERS, FABRICATION OR INSTALLATION OF THE ITEMS/METHODS IN DISCREPANCY.  
 - NCC BUILDING CODE OF AUSTRALIA.  
 - ELECTRICITY ACT.  
 - ELECTRICAL SAFETY ACT.  
 - AS3000.  
 - AS3008.  
 - 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.  
 - STATE SUPPLY AUTHORITY.  
 - STATE GOVERNMENT DEPARTMENT OF ENVIRONMENT AND HERITAGE.  
 - QLD GOVERNMENT, DIVISION OF WORKPLACE, HEALTH AND SAFETY.  
 - QLD FIRE AND RESCUE AUTHORITY.

5. CABLES

UNLESS OTHERWISE SPECIFIED, INSTALL AND TERMINATE CABLES IN ACCORDANCE WITH THE MANUFACTURERS' RECOMMENDATIONS. DETERMINE THE FINAL ROUTES TO SUIT THE BUILDING STRUCTURE AND SITE CONDITIONS. UNLESS NOTED OTHERWISE, PROVIDE ALL 240 VOLT POWER AND LIGHTING WIRING AS 2.5mm<sup>2</sup> 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.

6. POWER DISTRIBUTION

THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES THE CONNECTION OF A NEW 80 AMP THREE PHASE OVERHEAD ENERGEX SERVICE TO A GALVANIZED STEEL PROPERTY POLE THEN VIA UNDERGROUND CONSUMERS MAINS AND A NEW MSB. ARRANGE WITH ENERGEX TO HAVE THE NEW SUPPLY CONNECTED. THE MSB IS TO CONTAIN QCEM V4 COMPLIANT RETAIL METERING AND A DISTRIBUTION BOARD DB-A. ALL OF THE CIRCUITS AND OUTLETS NECESSARY TO COMPLETE THE INSTALLATION ARE TO BE PROVIDED AS REQUIRED. THE POWER DISTRIBUTION COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- POWER DISTRIBUTION.
- ARRANGING THE ENERGEX SUPPLY.
- PROPERTY POLE.
- CONSUMERS MAINS.
- MAIN SWITCHBOARD.
- EARTHING.
- CIRCUITS.
- ISOLATORS AND OUTLETS.
- TESTING AND COMMISSIONING.

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 JDOS OF THE NCC BCA 2022. THE SPARE CIRCUIT BREAKER, ENERGY MONITORING EQUIPMENT AND DIN RAIL SPACES ARE TO BE LABELLED (RESERVED FOR SOLAR / BATTERIES).

**NOTES**

6. POWER DISTRIBUTION CONT.

PROVIDE THE SITE MAIN SWITCHBOARD (MSB) AS FOLLOWS:

- WALL MOUNTED.
- NATIONAL ELECTRICITY MARKET (NEW) COMPLIANT RETAIL METERING.
- PROVIDE A COPY OF THE ENERGEX APPROVAL OF THE MSB.
- IP66 FORM 2A
- 316 STAINLESS STEEL OR ALUMINIUM ENCLOSURE, DOORS AND ESCUTCHEONS.
- LIGHT GREY POWDER COATED ENCLOSURE AND DOORS. - 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 ENERGEX 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.
- ENERGEX PADLOCK ON THE METER CUBICAL.
- TWO ENERGEX PADLOCK KEYS AND TWO 92268 KEYS.

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.

7. LIGHTING

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

- LIGHTING.
- LIGHT FITTINGS AND ACCESSORIES.
- LAMPS.
- EARTHING OF THE LIGHTING INSTALLATION.
- LIGHTING CONTROL.
- LIGHTING SUBCIRCUITS.
- TESTING AND COMMISSIONING.

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

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

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

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

WARNING  
 INTERRUPTING SUPPLY WILL DISCHARGE  
 EMERGENCY LIGHTING BATTERIES

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

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

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

8. COMMUNICATIONS

THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES A NEW UNDERGROUND NBN LEADIN SERVICE TO A NBN PCD AND DROP CONDUIT TO A NBN NTD ADJACENT CR-A. ARRANGE WITH THE NBN CO TO INSTALL THE LEAD-IN SERVICE.

PROVIDE A COMMUNICATIONS RACK CR-A C/W ALL NECESSARY PATCH PANELS TO SUPPORT THE CAT 6 OUTLETS.

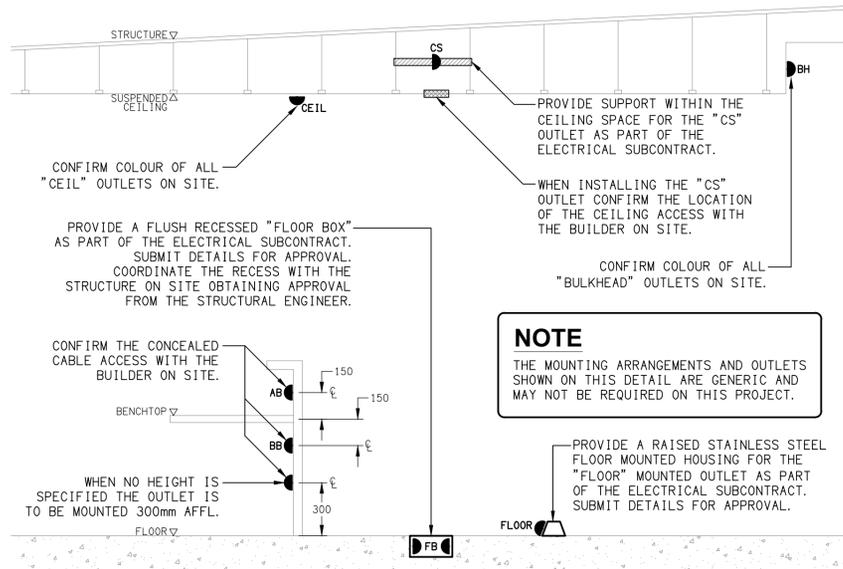
THE EXCHANGE SERVICES AND ACTIVE EQUIPMENT WILL BE PROVIDED BY THE OPERATOR. THE COMMUNICATIONS CABLING COMPONENT OF THIS CONTRACT INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING EXTENT OF WORK:

- NBN LEAD-IN SERVICE.
- NBN PCD.
- NBN DROP CONDUIT.
- NBN NTD.
- COMMUNICATIONS RACK C/W PATCH PANELS.
- CAT 6 OUTLETS.

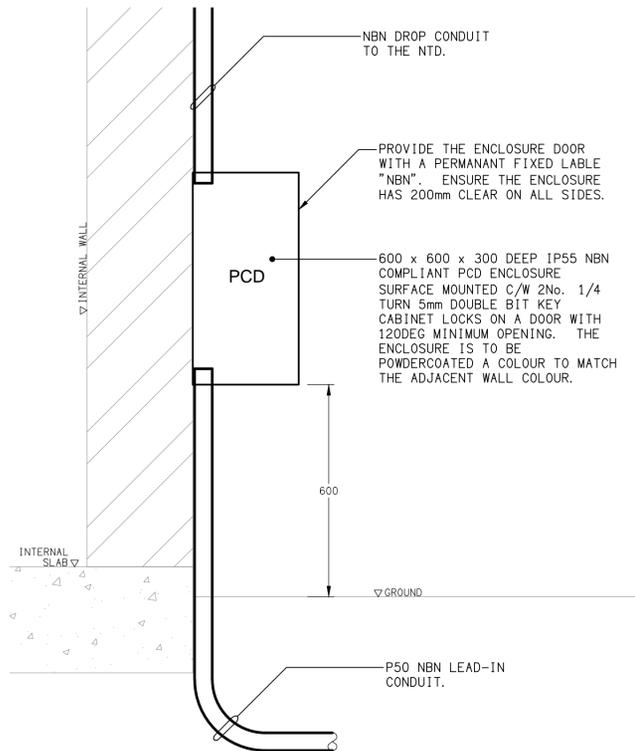
9. ABBREVIATIONS

- A - AMP CURRENT RATING
- AC - AIR CONDITIONING.
- 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.
- MCB - MINIATURE CIRCUIT BREAKER.
- MSB - MAIN SWITCHBOARD.
- N - NEON / LED INDICATOR WHEN ON.
- NTS - NOT TO SCALE.
- RCBO - CIRCUIT PROTECTED VIA A 30mA RESIDUAL CURRENT DEVICE INTEGRAL TO THE CIRCUIT BREAKER. 3-PHASE RCBO TO BE 4-POLE.
- UNO - UNLESS NOTED OTHERWISE.
- WP - WEATHERPROOF TO IP56 UNO.
- 500 - NUMBER DENOTES MOUNTING HEIGHT AFFL.

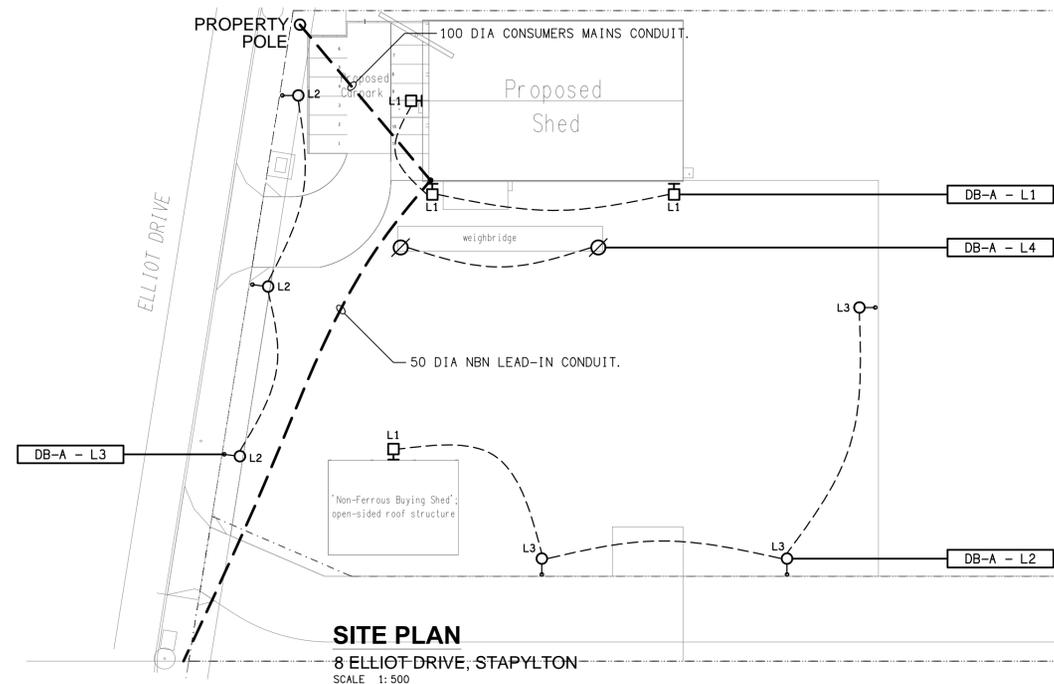
ELECTRICAL DESIGN GROUP BRISBANE PTY LTD ACN 092 710 793  TRADING AS: ELECTRICAL DESIGN GROUP	THE COPYRIGHT OF THIS DRAWING REMAINS THE PROPERTY OF THE ELECTRICAL DESIGN GROUP.  USE FIGURED DIMENSIONS IN PREFERENCE TO SCALE.  ALL DIMENSIONS TO BE VERIFIED ONSITE.	 <b>ELECTRICAL DESIGN GROUP</b> ELECTRICAL BUILDING SERVICES CONSULTANTS BRISBANE GOLD COAST  P.O.Box 15, Sherwood Q.4075 Phone: (07) 3278 4375 Email: brisbane@edg.net.au Web: www.edg.net.au	PROJECT: <b>ELLIOT DRIVE, STAPYLTON</b>	B PRELIMINARY REV: DESCRIPTION: DATE:
			PROJECT NO: <b>C3416a</b>	DRAWING NO: <b>E01</b>
TRADING AS: ELECTRICAL DESIGN GROUP			8 ELLIOT DRIVE, STAPYLTON, QUEENSLAND	SCALE: NOT TO SCALE AT A1



**DETAIL**  
TYPICAL OUTLET MOUNTINGS  
NOT TO SCALE

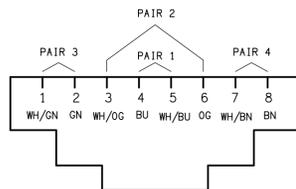


**DETAIL**  
NBN PCD MOUNTING  
NOT TO SCALE

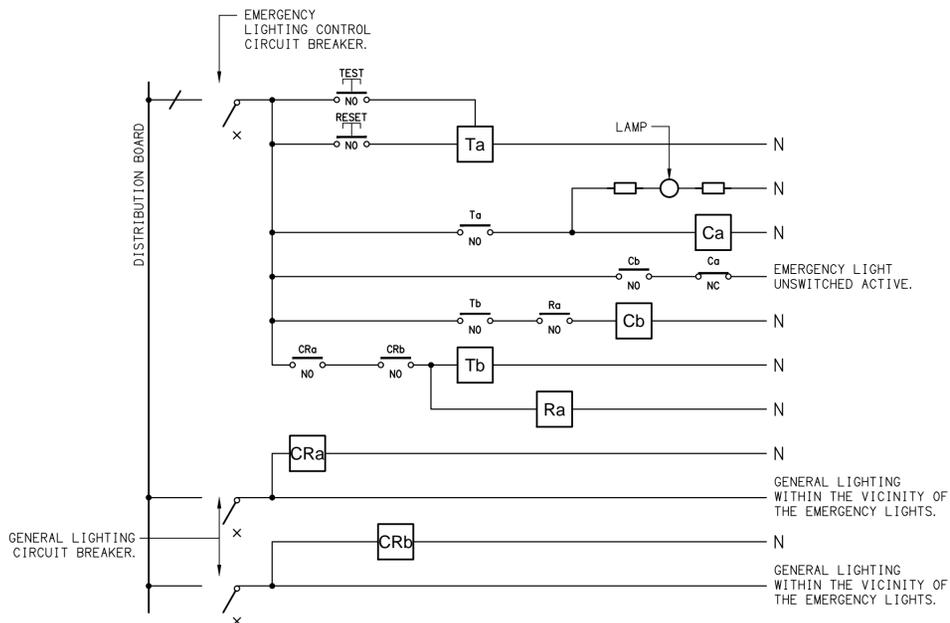


**SITE PLAN**  
8 ELLIOT DRIVE, STAPYLTON  
SCALE 1:500

- 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.

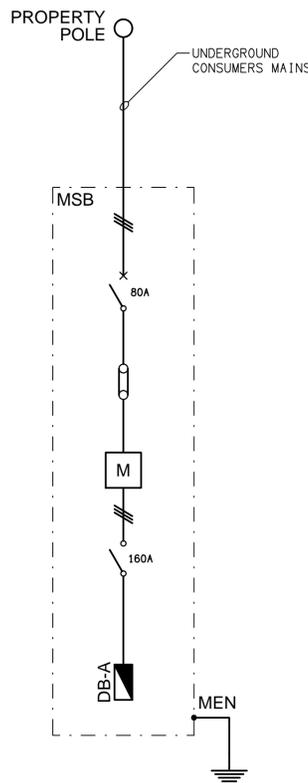


**SCHEMATIC**  
RJ45 PINOUT CONFIGURATION  
NOT TO SCALE



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

**SCHEMATIC**  
EMERGENCY LIGHTING  
NOT TO SCALE



**SCHEMATIC**  
POWER CONFIGURATION  
NOT TO SCALE

**DB-A DISTRIBUTION BOARD SCHEDULE**

FAULT CURRENT:	6KA	MAIN SWITCH:	160A NON AUTO LOAD BREAK
CHASSIS SIZE:	84 POLE		
CHASSIS RATING:	250A		
PHASES:	3		

PROVIDE THE DB WITH A FULL WIDTH EMPTY DIN RAIL TO ACCOMMODATE FUTURE CONTACTORS AND CONTROLS IN ADDITION TO THE CONTROLS INCLUDING THE EQUIPMENT PROVIDED AS PART OF THE INITIAL WORKS. PROVIDE THE DB WITH AN ASS2293 EMERGENCY LIGHTING CONTROL SYSTEM TO CONTROL THE ASSOCIATED EMERGENCY LIGHTS. PROVIDE THE DB WITH SURGE PROTECTION. REFER TO THE POWER SCHEMATIC

CIRC	PH	CIRCUIT BREAKER (amps)	CONTROL EQUIPMENT	CABLE SIZE (mm <sup>2</sup> )	LOCATION	CIRCUIT USE
P1	1	20	RCBO	2.5	AMENITY	HWS
P2	3	20	RCBO	2.5	EXTERNAL	SEWER PUMP
P3	1	20	RCBO	2.5	OFFICE	CR-A
P4	1	20	RCBO	2.5	AMENITY	GPOs
P5	1	20	RCBO	2.5	EXTERNAL	AC
P6	1	20	RCBO	2.5	OFFICE	CLEANING
P7	1	20	RCBO	2.5	OFFICE	GPOs
P8	1	20	RCBO	2.5	EXTERNAL	GPOs
P9	1	20	RCBO	2.5	WAREHOUSE	3PH
P10	3	20	RCBO	2.5	WAREHOUSE	3PH
P11	3	20	RCBO	2.5	WAREHOUSE	3PH
P12	3	20	RCBO	2.5	WAREHOUSE	3PH
P13	1	20	RCBO	2.5	WAREHOUSE	20A
P14	1	20	RCBO	2.5	WAREHOUSE	20A
P15	1	20	RCBO	2.5	WAREHOUSE	20A
P16	1	20	RCBO	2.5	WAREHOUSE	20A
P17	1	20	RCBO	2.5	WAREHOUSE	GPOs
P18	1	20	RCBO	2.5	WAREHOUSE	GPOs
P19	1	20	RCBO	2.5	WAREHOUSE	GPOs
P20	1	20	RCBO	2.5	WAREHOUSE	GPOs
P21	1	20	RCBO TC ON 6.00 AM OFF 10.00 PM	2.5	ROOF	EXHAUST
L1	1	20	RCBO PE ON DUSK OFF DAWN	2.5	EXTERNAL	LIGHTS
L2	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTS
L3	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	EXTERNAL	LIGHTS
L4	1	20	RCBO PE ON DUSK TC OFF 10.00PM	2.5	WEIGH BRIDGE	LIGHTS
L5	1	20	RCBO	2.5	WAREHOUSE	LIGHTS
L6	1	20	RCBO	2.5	WAREHOUSE	LIGHTS
L7	1	20	RCBO	2.5	WAREHOUSE	LIGHTS
L8	1	20	RCBO	2.5	OFFICE	LIGHTS
L9	1	20	RCBO	2.5	AMENITY	LIGHTS

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SCALE: 1:500 UNO	AT A1	PROJECT NO: <b>C3416a</b>	DRAWING NO: <b>E02</b>	REVISION: <b>B</b>
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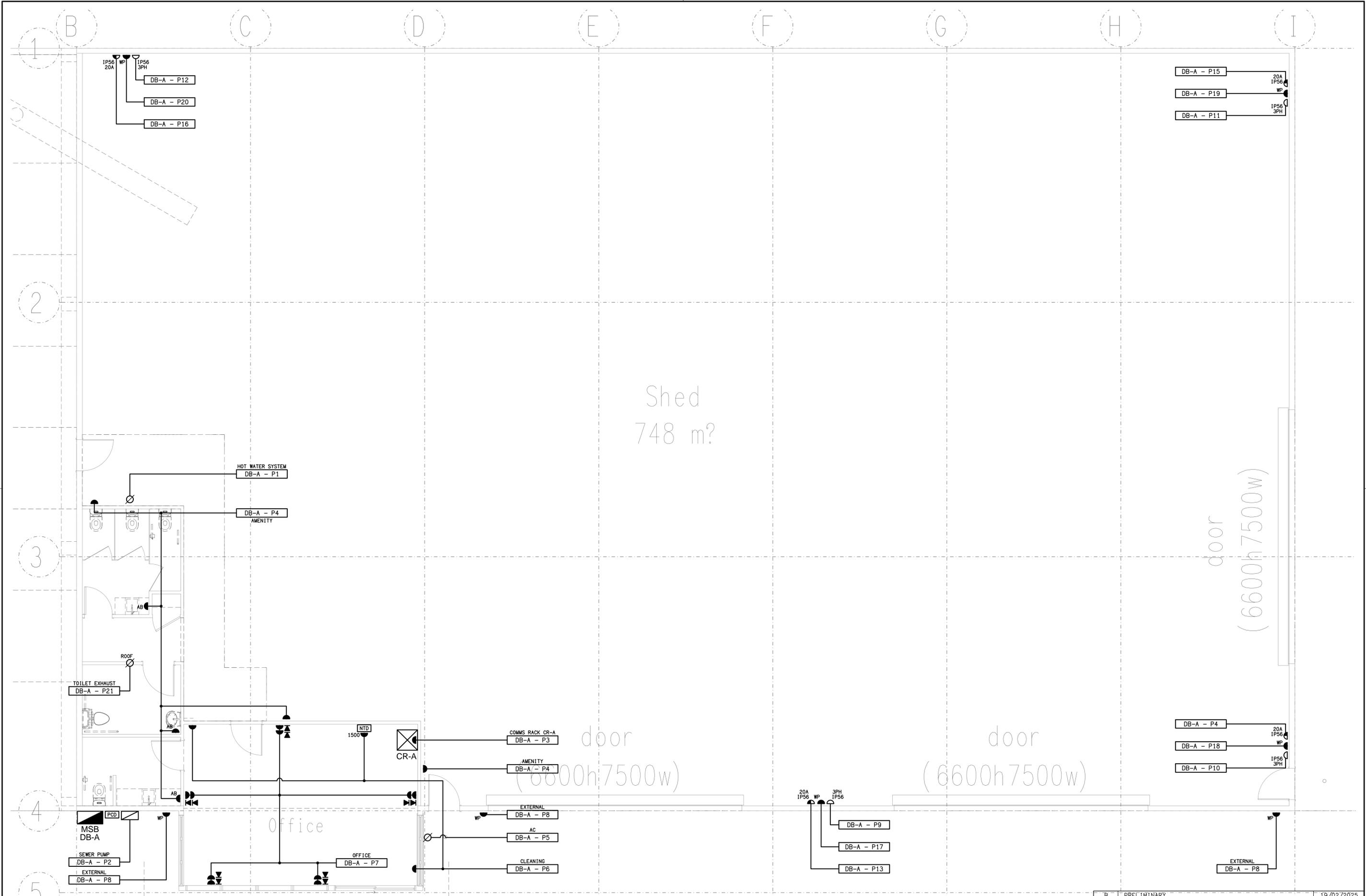
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PROJECT:  
ELLIOT DRIVE, STAPYLTON

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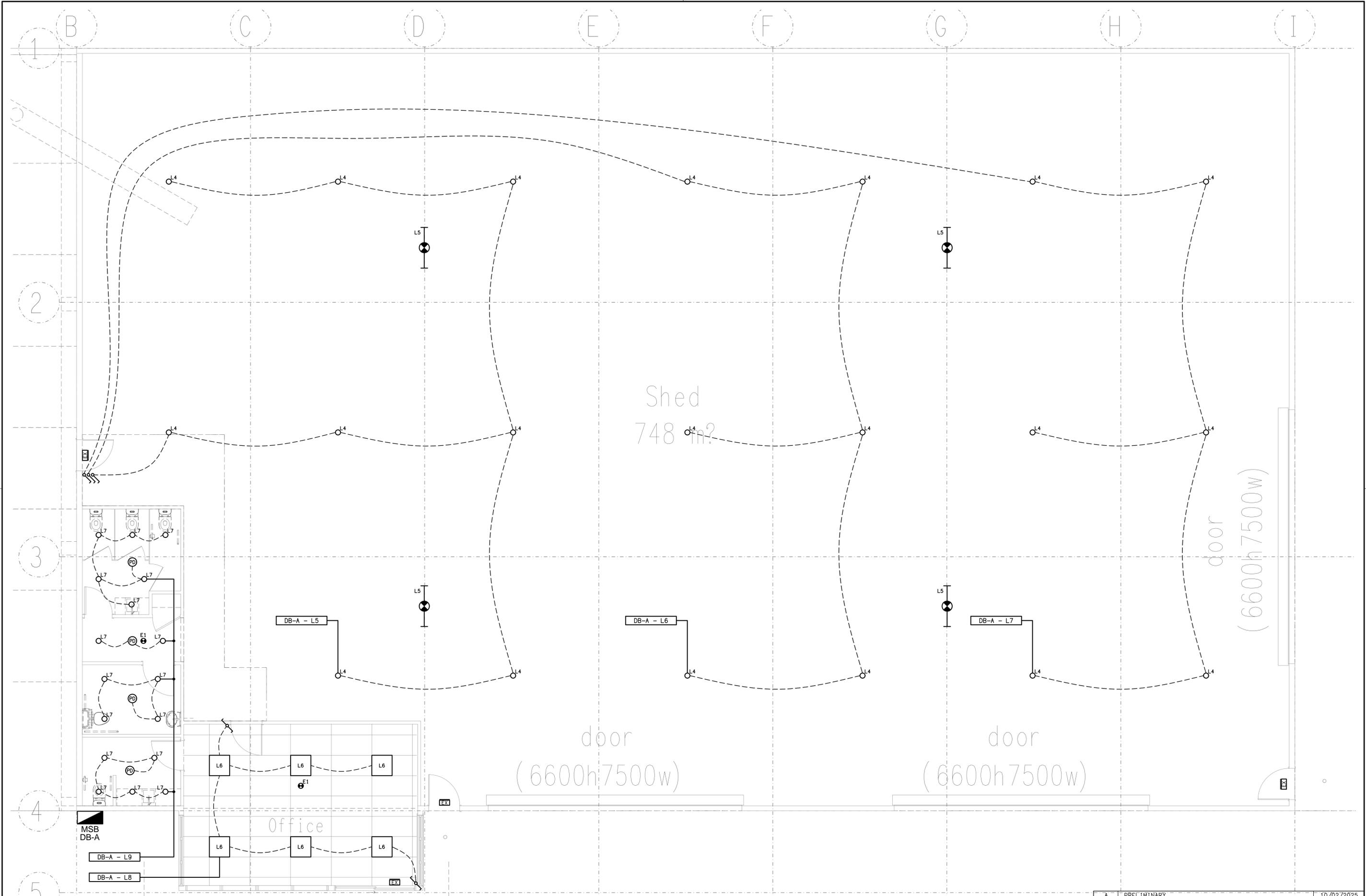
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SCALE: 1:50	AT A1	PROJECT NO: <b>C3416a</b>
		DRAWING NO: <b>E04</b>
		REVISION: <b>A</b>