

PCLI - HENLEY
6 CROWN CLOSE, HENLEY, NSW 2111
ELECTRICAL SERVICES

PREPARED BY
COVA
Stronger Together



DRAWING SCHEDULE		
DRAWING NUMBER	DISCIPLINE	DRAWING TITLE
5511.008-1-E001	ELECTRICAL SERVICES	COVER PAGE & DRAWING SCHEDULE
5511.008-1-E002	ELECTRICAL SERVICES	DRAWING LEGEND
5511.008-1-E003	ELECTRICAL SERVICES	SCOPE OF WORKS & SPECIFICATION SHEET 1 OF 2
5511.008-1-E004	ELECTRICAL SERVICES	SCOPE OF WORKS & SPECIFICATION SHEET 2 OF 2
5511.008-1-E100	ELECTRICAL SERVICES	SITE PLAN
5511.008-1-E200	ELECTRICAL SERVICES	GROUND - LIGHTING & FIRE DETECTION LAYOUT
5511.008-1-E201	ELECTRICAL SERVICES	LEVEL 1 - LIGHTING & FIRE DETECTION LAYOUT
5511.008-1-E300	ELECTRICAL SERVICES	GROUND - POWER & COMMUNICATIONS LAYOUT
5511.008-1-E301	ELECTRICAL SERVICES	LEVEL 1 - POWER & COMMUNICATIONS LAYOUT
5511.008-1-E302	ELECTRICAL SERVICES	ROOF - POWER & COMMUNICATIONS LAYOUT
5511.008-1-E400	ELECTRICAL SERVICES	SINGLE LINE DIAGRAM

LIGHT SWITCHING	
SYMBOL	DESCRIPTION
D1	3500lm DOWNLIGHT
D2	2000lm DOWNLIGHT
L1	LED STRIP
L2	LED STRIP
L3	LED STRIP
B1	BATTEN LIGHT
B1	BOLLARD
B2	BOLLARD
B3	BOLLARD
B4	BOLLARD
E51	PENDANT LIGHT
EW1	WALL LIGHT
EW2	WALL LIGHT
EW3	WALL LIGHT
OS1	PENDANT LIGHT
OS3	PENDANT LIGHT
P1	BOLLARD
W1	WALL LIGHT
W2	WALL LIGHT
W3	WALL LIGHT
W5	WALL LIGHT
2W	LIGHTING SWITCH AND SWITCHWIRE TEXT DESIGNATIONS AS FOLLOWS: "2W" = TWO WAY "?W" = INTERMEDIATE SWITCH - "?" DENOTES NUMBER OF WAYS "D" = DIMMER, RATING AS REQUIRED "F" = FAN WITH GREEN PILOT INDICATOR LIGHT AND ENGRAVED LABEL FOR FAN "P" = WITH RED PILOT INDICATOR LIGHT "PS" = PULL CHORD SWITCH "MC" = METAL CLAD "WP" = WEATHERPROOF "S" = LIGHT SENSITIVE "T" = TIME DELAY SWITCH "SS" = FLUSH MOUNTED FLAT PLATE, STAINLESS STEEL FINISH
	LIGHTING SWITCH AND SWITCHWIRE LIGHT SWITCHES SHALL BE 1000mm ABOVE FLOOR LEVEL UNLESS SHOWN/NOTED OTHERWISE. TEXT DESIGNATIONS AS FOLLOWS: "F" = FAN WITH GREEN PILOT INDICATOR LIGHT AND ENGRAVED LABEL FOR FAN "P" = WITH RED PILOT INDICATOR LIGHT "MC" = METAL CLAD "WP" = WEATHERPROOF "T" = TIME DELAY SWITCH "SS" = FLUSH MOUNTED FLAT PLATE & STAINLESS STEEL FINISH
	SWITCHWIRE
	ONE WAY SWITCH
	TWO WAY SWITCH
SP-1	LIGHT SWITCH PANEL No.1 (FLUSH MOUNTED U.N.O.)
DIM-1	DIMMER UNIT No.1
PE	PHOTOELECTRIC CELL
	PASSIVE INFRARED DETECTOR SWITCH
	ULTRASONIC MOVEMENT DETECTOR SWITCH
SP1-Z	LUMINAIRE SWITCHING GROUP SWITCHED TO SWITCH PANEL No.1, CIRCUIT No.2

FIRE DETECTION SYMBOLS	
SYMBOL	DESCRIPTION
	HEAT DETECTOR, EXPOSED OR SURFACE MOUNTED
	HEAT DETECTOR, IN CONCEALED IN SPACE
	HEAT DETECTOR, WITHIN AIR DUCT
	HEAT ALARM
	SMOKE DETECTOR, EXPOSED OR SURFACED MOUNTED IONISATION TYPE UNLESS DENOTED OTHERWISE "P" = DENOTES PHOTO ELECTRICAL TYPE
	SMOKE DETECTOR, IN CONCEALED SPACE
	SMOKE DETECTOR, WITHIN AIR DUCT
	SMOKE ALARM

POWER	
SYMBOL	DESCRIPTION
600 600	GENERAL PURPOSE SOCKET OUTLET MOUNTED ON SKIRTING DUCT WHERE SHOWN OR AT 300mm ABOVE FLOOR LEVEL UNLESS NOTED OTHERWISE. POWER OUTLET DESIGNATIONS AS FOLLOWS: "600" = 600mm A.F.F.L. OR AT HEIGHT MARKED "15A" = INDICATES OUTLET RATING. "AB" = ABOVE BENCH (NOMINAL 300) "CL" = CLEANERS "CM" = MOUNTED ON CEILING "CS" = MOUNTED IN CEILING/ROOF SPACE "FL" = FLOOR MOUNTED, SURFACE TYPE "FM" = MOUNTED IN FLOOR MOUNTING BLOCK "RCD" = RESIDUAL CURRENT DEVICE "SK" = MOUNTED ON SKIRTING DUCT "SD" = MOUNTED ON SERVICE DUCT "UB" = UNDER BENCH "W" = MOUNTED ON WALL "WP" = WEATHERPROOF TO IP56 MINIMUM "AC" = AIR CONDITIONING UNIT "IP66"= INDICATES IP RATING. WHERE REQUIRED, DOUBLE OUTLETS TO BE 2 No. SINGLE OUTLETS. (APPLIES TO CURRENT RATED OUTLETS)
	SINGLE 10 AMP GENERAL PURPOSE SOCKET OUTLET (GPO)
	DOUBLE 10 AMP GENERAL PURPOSE SOCKET OUTLET (GPO)
	MULTIPLE 10 AMP SOCKET OUTLET "n" = DENOTES NUMBER OF OUTLETS
	SINGLE 10 AMP SOCKET OUTLET WITH ISOLATING SWITCH
2	DOUBLE 10 AMP SOCKET OUTLET WITH ISOLATING SWITCH
	MULTI-PHASE SOCKET OUTLET "n" = DENOTES NUMBER OF PHASES
	DEDICATED SINGLE 10 AMP SOCKET OUTLET
	DEDICATED DOUBLE 10 AMP SOCKET OUTLET
	ESSENTIAL/UPS SINGLE 10 AMP SOCKET OUTLET
	ESSENTIAL/UPS DOUBLE 10 AMP SOCKET OUTLET
	SUSPENDED SINGLE 10 AMP SOCKET OUTLET
	SUSPENDED DOUBLE 10 AMP SOCKET OUTLET
	ISOLATOR - RATING AS INDICATED 1ø = SINGLE PHASE + NEUTRAL 3ø = THREE PHASE + NEUTRAL DC = DIRECT CONNECTION WITHOUT ISOLATING SWITCH
F1	FLOOR BOX (RECESSED) "F1" = DENOTES FLOOR BOX TYPE - REFER SCHEDULE
PB	EMERGENCY STOP PUSH BUTTON
	POWER POLE (SERVICES POLE)
Cu	EARTH ELECTRODE - Cu DENOTES CONDUCTOR MATERIAL
BWU	BOILING WATER UNIT
HD	HAND DRYER
XVB	X-RAY VIEWING BOX
	DENOTES BODY PROTECTED ZONE/ROOM
	METER PANEL (MP-*)
	MAIN SWITCHBOARD (MSB-*)
	DISTRIBUTION BOARD (DB-*)
	SWITCHBOARD BY OTHER TRADES "MSSB" = MECHANICAL SERVICES SWITCHBOARD
DB-x	DISTRIBUTION SWITCHBOARD BOUNDARY
	OUTLET TYPE - REFER TO SCHEDULE CIRCUIT NUMBER MOUNTING HEIGHT TO CENTRE
E01	CIRCUIT DESIGNATION "DB1" = DENOTES DISTRIBUTION BOARD NUMBER "P1" = POWER CIRCUIT NUMBER

COMMUNICATION	
SYMBOL	DESCRIPTION
	DATA & VOICE OUTLET (RJ45) MOUNTED ON SKIRTING DUCT WHERE SHOWN OR AT 300mm ABOVE FLOOR LEVEL UNLESS NOTED OTHERWISE. OUTLET DESIGNATIONS AS FOLLOWS: "600" = 600mm A.F.F.L. OR AT HEIGHT MARKED "AV" = AUDIO / VIDEO "F" = FAX "FTV" = FREE TO AIR TV "P" = PRINTER "PTV" = PAY TV "TV" = TELEVISION
	SINGLE DATA & VOICE OUTLET (RJ45)
	DOUBLE DATA & VOICE OUTLET (RJ45)
n	MULTIPLE DATA & VOICE OUTLET (RJ45) "n" = DENOTES NUMBER OF OUTLETS
	TELEPHONE OUTLET
	INTERCOM OUTLET
	PATCH PANEL
	DISTRIBUTION FRAME FRAME DESIGNATION AS FOLLOWS: "FDF" = FLOOR DISTRIBUTION FRAME "IDF" = INTERMEDIATE DISTRIBUTION FRAME "MDF" = MAIN DISTRIBUTION FRAME
	PRIVATE AUTOMATIC BRANCH EXCHANGE
	COMMUNICATIONS CABINET
	FLOOR DISTRIBUTOR
	PUBLIC ADDRESS AMPLIFIER RACK
	MASTER ANTENNA TELEVISION SYSTEM
	MATV AMPLIFIERS
	VOLUME CONTROL
	CEILING SPEAKER - FLUSH MOUNTED
	CONCEALED SPEAKER
	HORN SPEAKER - SURFACE MOUNTED

EMERGENCY LIGHTING	
SYMBOL	DESCRIPTION
EM1	RECESSED NON-MAINTAINED EMERGENCY LUMINAIRE EM1 = DENOTES FITTING TYPE EM1 = DENOTES FITTING TYPE C0 (ORIENTATION) C90
	LED EMERGENCY EXIT SIGN WITH 'RUNNING MAN' PICTOGRAPH DIFFUSER STRAIGHT AHEAD
	LED EMERGENCY EXIT SIGN WITH 'RUNNING MAN' PICTOGRAPH DIFFUSER AND DIRECTION ARROW
	LED EMERGENCY EXIT SIGN WITH 'RUNNING MAN' PICTOGRAPH DIFFUSER AND DIRECTION ARROW - DOUBLE SIDED

ABBREVIATIONS	
SYMBOL	DESCRIPTION
WP	WEATHERPROOF (IP56 MINIMUM)
RCD	RESIDUAL CURRENT DEVICE
H/L	HIGH LEVEL
L/L	LOW LEVEL
AC	AIR CONDITIONER
AD	AUTO DOOR
AT	AUTO TAP
BWU	BOILING WATER UNIT
CWU	CHILLED WATER UNIT
CBWU	CHILLED & BOILING WATER UNIT
DW	DISHWASHER
EF	EXHAUST FAN
EH	ELECTRIC HEATER
FH	FAN HEATER
FR	FREEZER
HD	HAND DRYER
HWU	HOT WATER UNIT
MW	MICROWAVE
OV	OVEN
PR	PRINTER
REF	REFRIGERATOR
RH	RANGEHOOD
RSD	ROLLER SHUTTER DOOR
ST	STOVE
VM	VENDING MACHINE

SECURITY SYMBOLS	
SYMBOL	DESCRIPTION
	SECURITY CONTROL PANEL
VI	VIDEO INTERCOM AT ENTRANCE
VR	VIDEO INTERCOM RECEIVER
	CCTV CAMERA
RS	DOOR READ SWITCH
ML	ELECTROMAGNETIC LOCK
ES	ELECTRIC STRIKE LOCK
CR	CARD ACCESS READER
PB	DOOR RELEASE PUSH BUTTON
	DOOR CALL BUTTON
	MANUAL BREAK GLASS DOOR RELEASE MONITOR / SENSOR

B	DETAILED DESIGN	DU	AZ	GM	22.04.26
A	PRELIMINARY ISSUE	DU	AZ	GM	27.03.26
REV.	DESCRIPTION	DRN	RE	PL	DATE

DRAWING CHECK		CO-ORDINATION CHECK	
SIGNATURE	DATE	SIGNATURE	DATE
DRAWN		STRUCT.	
DESIGNED		MECH.	
CHECKED		ELECT.	
		HYDRO/CIVIL	
		FIRE/ENV.	

CLIENT	kennedy associates architects with TERROIR
E	mail@kennedyassociates.com.au
W	www.kennedyassociates.com.au
P	+61 2 9557 6466
	Level 3, 1 Booth Street
	Annandale NSW 2038
E	sydney@terroir.com.au
W	www.terroir.com.au
P	+61 2 9696 2198
	Level 2/79 Myrtle St.
	Chippendale NSW 2008



1800 00 COVA covathinking.com
ACN 117 492 814

PROJECT
PCLI - HENLEY
6 CROWN CLOSE, HENLEY, NSW
2111

TITLE
ELECTRICAL SERVICES
DRAWING LEGEND

2000	0	2000	4000	6000	A1
STATUS	PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION				
SCALE @ A1	DIMENSIONS IN MILLIMETRES				REV.
DRAWING No.	5511.008-1- E002				B

SCOPE OF WORKS

1. PROVIDE COMPLETE ELECTRICAL INSTALLATION INCLUDING MAIN SWITCHBOARD, DISTRIBUTION BOARDS, SUBMAINS AND FINAL SUBCIRCUITS, INCLUDING ALL WIRING, PROTECTION, EARTHING AND ASSOCIATED EQUIPMENT FOR A FULLY OPERATIONAL SYSTEM.
2. PROVIDE GENERAL POWER OUTLETS AND CONNECTIONS TO ALL FIXED AND SPECIALIST EQUIPMENT, COORDINATED WITH FINAL EQUIPMENT LAYOUT AND CLIENT REQUIREMENTS.
3. PROVIDE COMPLETE LIGHTING INSTALLATION INCLUDING GENERAL, FEATURE, EMERGENCY AND EXIT LIGHTING, INCLUDING ALL CONTROLS, WIRING AND ASSOCIATED SYSTEMS IN ACCORDANCE WITH AS/NZS 2293 AND PROJECT REQUIREMENTS.
4. PROVIDE COMPLETE COMMUNICATIONS AND DATA CABLING SYSTEM INCLUDING ALL OUTLETS, CABLING, TERMINATIONS, RACKS AND ASSOCIATED INFRASTRUCTURE, COORDINATED WITH CLIENT IT/AV REQUIREMENTS.
5. PROVIDE COMPLETE SECURITY SYSTEMS INCLUDING ALL FIELD DEVICES, CABLING, PANELS AND PROGRAMMING REQUIRED FOR FULL OPERATIONAL FUNCTIONALITY.
6. PROVIDE ALL ELECTRICAL INTERFACES AND POWER SUPPLIES TO FIRE, MECHANICAL AND OTHER SERVICES, INCLUDING ALL REQUIRED CONTROL AND INTERLOCK WIRING FOR COMPLIANT OPERATION.
7. ALLOW FOR ALL CONTAINMENT, PENETRATIONS, BUILDER'S WORKS AND COORDINATION REQUIRED TO INSTALL THE ABOVE SERVICES, INCLUDING MAKING GOOD AND COMPLIANCE WITH NCC AND RELEVANT STANDARDS.
8. TEST, COMMISSION AND CERTIFY ALL SYSTEMS AND PROVIDE AS-BUILT DOCUMENTATION AND HANDOVER FOR A COMPLETE AND OPERATIONAL INSTALLATION.

COMPLIANCE WITH STANDARDS, CODES AND AUTHORITIES

- ALL WORK ASSOCIATED WITH THIS TENDER/CONTRACT SHALL FULLY COMPLY IN ALL RESPECTS WITH ALL RELEVANT AUSTRALIAN STANDARDS, CODES AND AUTHORITY REQUIREMENTS CURRENT AND AT THE TIME OF TENDER. SUCH COMPLIANCE SHALL BE APPLICABLE IN RESPECT OF ALL MATERIALS, WORKMANSHIP AND PRACTICES ASSOCIATED WITH THE WORKS REFERRED TO IN THESE DRAWINGS. AS A MINIMUM REQUIREMENT COMPLIANCE SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING STANDARDS, CODES AND AUTHORITIES:
 - NATIONAL CONSTRUCTION CODE - BUILDING CODE OF AUSTRALIA
 - REQUIREMENTS OF TELSTRA/NBN AND THE AUSTRALIAN COMMUNICATIONS AUTHORITY (ACA)
 - STATUTORY REGULATIONS
 - REQUIREMENTS OF THE LOCAL FIRE SERVICE
 - REQUIREMENTS OF THE RELEVANT SUPPLY AUTHORITY AND ANY SUBSIDIARIES/AGENTS
 - REQUIREMENTS OF THE CERTIFIER(S)
1. ALL RELEVANT AUSTRALIAN STANDARDS AND CODES, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - AS 3000 WIRING RULES
 - AS 3008.1 CABLE SELECTION
 - AS 2293 EMERGENCY LIGHTING (ALL PARTS)
 - AS 1680.0 SAFE MOVEMENT LIGHTING
 - AS 3080 TELECOMMUNICATIONS CABLING
 - AS 3084 TELECOMMUNICATIONS INSTALLATIONS
 - AS 2052 CONDUITS & FITTINGS (METALLIC)
 - AS 2053 CONDUITS & FITTINGS (NON-METALLIC)
 - AS 1939 DEGREES OF PROTECTION.
 - AS 1345 IDENTIFICATION OF CONDUIT CONTENTS
 - AS 61439 SWITCH GEAR & CONTROL GEAR
 - AS 1100 DRAWING PRACTICE.
 - AS 1670 FIRE DETECTION AND ALARM
 - AS 1170.4 SEISMIC RESTRAINTS
 - TELECOMMUNICATIONS CABLING PROVIDER RULES 2000 - ACMA CABLING INDUSTRY REGULATIONS
 - AS/CA S009:2013 - INSTALLATION REQUIREMENTS FOR CUSTOMER CABLING
 - AS/CA S008:2010 - REQUIREMENTS FOR CUSTOMER CABLING REQUIREMENTS
 - KEEP A COPY OF AS3000 ON SITE FOR REFERENCE

GENERAL NOTES

1. ALLOW FOR PLANNING AND STAGING OF DEMOLITION, TEMPORARY AND CONSTRUCTION WORKS, INCLUDING TEMPORARY POWER SUPPLY. COORDINATE WITH ARCHITECT AND STAGING PLAN PRIOR TO START CONSTRUCTION
2. THE TENDERER SHALL VISIT THE SITE AND BECOME CONVERSANT WITH THE EXISTING CONDITIONS, INCLUDING THE LOCATION OF THE EXISTING INFRASTRUCTURE AND SCOPE OF WORK REQUIRED. MAKE ALL THE REQUIRED ALLOWANCES TO COMPLETE THE WORKS. ANY VARIATIONS ARISING FROM ISSUES THAT COULD HAVE BEEN REASONABLY NOTED DURING A THOROUGH SITE INSPECTION WILL NOT BE ACCEPTED.
3. ALL MATERIALS, EQUIPMENT AND COMPONENTS MUST BE OF FIRST QUALITY AND CURRENT APPROVED MANUFACTURE SHALL BE USED THROUGHOUT. UNIFORMITY OF MANUFACTURERS OF THE VARIOUS FITTINGS, EQUIPMENT AND COMPONENTS SHALL BE MAINTAINED.
4. CO-ORDINATE WITH THE MECHANICAL, WET FIRE AND HYDRAULIC SERVICES FOR FINAL LOCATION OF SERVICES CONTROL PANEL/SWITCHBOARDS.
5. CHECK ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS AND ON SITE BEFORE COMMENCING CONSTRUCTION.
6. PROVIDE ALL NECESSARY, HOT AND COLD, FIRE, SMOKE, THERMAL, ACOUSTIC, VERMIN AND MOISTURE SEALS ASSOCIATED WITH THE ELECTRICAL SERVICES INSTALLATION PENETRATIONS TO MAINTAIN THE INTEGRITY OF THE WALLS.
7. ANY REFERENCE IN THESE DOCUMENTS TO MECHANICAL, ELECTRICAL, HYDRAULIC, ARCHITECTURAL SERVICES AND THE LIKE SHALL MEAN THE GROUP OF DOCUMENTS WHICH GENERALLY PROVIDE FURTHER DETAILS OF THESE WORKS. SUCH REFERENCES ARE PROVIDED AS AN AID TO THE CONTRACTOR. THE DOCUMENTS REFERRED TO SHALL AT ALL TIMES BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS AND SHALL NOT IN ANY WAY EXCLUDE ANY DOCUMENTS.
8. PROVIDE ALL NECESSARY PENETRATIONS ASSOCIATED WITH THE SERVICES INSTALLATION.
9. ALL WIRING SHALL BE CONCEALED IN WALLS AND CEILING/ROOF SPACES EXCEPT PLANT ROOMS, UNLESS OTHERWISE APPROVED BY THE SUPERINTENDENT.
10. FOR CEILING/BULKHEAD HEIGHTS, ROOF/CEILING SPACE ACCESS DETAILS & SETOUTS REFER TO ARCHITECTURAL DRAWINGS.
11. CO-ORDINATE ALL WORKS WITH BUILDING ELEMENTS, STRUCTURE AND SERVICES ON SITE AS REQUIRED. ALL EQUIPMENT, WIRING & CABLE ROUTES SHOWN IS THE DESIGN INTENT AND ARE APPROXIMATE ONLY. CONTRACTOR SHALL ALLOW FOR DEVIATIONS IN THE LAYOUT SHOWN, WHERE REQUIRED, FOR INSTALLATION OF ELECTRICAL SERVICES TO SUIT ALL ON SITE RESTRICTIONS.
12. ALTERNATIVE SOLUTIONS PROPOSED BY CONTRACTORS MUST BE CLEARLY IDENTIFIED IN THEIR PROPOSAL. ALTERNATIVE SOLUTIONS OR PROPOSALS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL OR OTHER SUBCONTRACTORS WHO SHALL BE RESPONSIBLE FOR DESIGN, CERTIFICATION AND APPROVAL OF ALL SYSTEMS. ALL ALTERNATIVE SOLUTIONS SHALL BE APPROVED BY THE SUPERINTENDENT AND/OR THEIR DESIGNATED REPRESENTATIVE PRIOR TO ACCEPTANCE OR PURCHASE/ORDERING OF ANY EQUIPMENT.
13. CARRY OUT ALL WORK IN FULL COMPLIANCE AND CO-OPERATIVE CO-ORDINATION WITH THE CONSTRUCTION PROGRAM
14. ALL CABLING TO BE CONCEALED. NO SURFACE MOUNTED WIRING CONDUITS WILL BE ACCEPTED. UNDERTAKE CHASING, PENETRATION AND MAKING GOOD AS REQUIRED.
15. ALL GENERAL LIGHT AND POWER DISTRIBUTION SYSTEM MUST PERFORM WITHIN NORMAL SUPPLY AUTHORITY LIMITS FOR VOLTAGE FREQUENCY AND HARMONICS.
16. THE EXACT HEIGHTS AND LOCATIONS OF ALL OUTLET PLATES AND SERVICE CONNECTIONS ARE SUBJECT TO SUPERINTENDENTS APPROVAL AND DETAILS. WHERE SPECIALISED EQUIPMENT AND SYSTEMS ARE CONCERNED e.g. COMMS EQUIPMENT, MECHANICAL, MATV, e.t.c, REFERENCE SHALL ALSO BE MADE TO THE LATEST REVIEWED SHOP DRAWING(S) ISSUE. ALL EQUIPMENT AND OUTLETS SHOWN ARE DIAGRAMMATIC ONLY. EXACT LOCATIONS SHALL BE CO-ORDINATED WITH ARCHITECTURAL DETAILS AND TO SUPERINTENDENTS APPROVAL.
17. ANY REFERENCE IN THESE DOCUMENTS TO MECHANICAL, ELECTRICAL, HYDRAULIC, ARCHITECTURAL SERVICES AND THE LIKE SHALL MEAN THE GROUP OF DOCUMENTS WHICH GENERALLY PROVIDE FURTHER DETAILS OF WORKS. SUCH REFERENCES ARE PROVIDED AS AN AID TO THE CONTRACTOR. THE DOCUMENTS REFERRED TO SHALL AT ALL TIMES BE READ IN CONJUNCTION WITH ALL OTHER CONTRACT DOCUMENTS AND SHALL NOT IN ANY WAY EXCLUDE ANY DOCUMENTS.
18. ARRANGE ALL COMPONENTS, OTHER THAN SERVICE ITEMS EXEMPTED IN AS 1170.4, TO RESIST SEISMIC LOADS DETERMINED IN CONFORMANCE WITH AS 1170.4. SECURELY FIX ALL PLANT AND EQUIPMENT TO THE BUILDING STRUCTURE. DO NOT RELY ON GRAVITY AND/OR FRICTION TO RESIST SEISMIC FORCES.
ANTI-VIBRATION MOUNTS: USE HORIZONTALLY RESTRAINED TYPE.
COMPONENTS: DO NOT USE COMPONENTS THAT WILL BE DAMAGED BY EARTHQUAKE CONDITIONS. PROTECT SYSTEMS AGAINST THE ADVERSE EFFECTS OF COMPONENTS SUCH AS TILT SWITCHES THAT, ALTHOUGH NOT DAMAGED BY EARTHQUAKE, MAY MALFUNCTION. FOLLOW THE RECOMMENDATIONS OF SA GOV G172 SEISMIC RESTRAINT OF ENGINEERING SERVICES
19. PROVIDE A FIRE STOP PENETRATION WHEREVER CABLES EXIT FROM A FIRE RATED ELEMENT, RISER OR WALL - TRAFALGAR FYRE BOX.
20. IN ACOUSTICALLY INSULATED WALLS PROVIDE ACOUSTIC BACK BOXES TO ALL OUTLETS TO MAINTAIN THE ACOUSTIC PROPERTIES OF THE WALL. WHERE OUTLETS ARE REQUIRED ON BOTH SIDES OF THE WALL - ENSURE THAT THEY ARE OFFSET FROM EACH OTHER BY A MINIMUM OF 300mm IN TIMBER AND STEEL FRAMED WALLS AND 100mm IN MASONRY WALLS.

EXIT AND EMERGENCY LIGHTING

1. EMERGENCY LIGHTING AND EXIT SIGNS SHALL COMPLY WITH AS2293.1:2018.
2. EMERGENCY LIGHTING CONTROLS WITHIN ALL AREAS SHALL BE ARRANGED SO THAT THE LOSS OF ONE, TWO AND/OR ALL THREE PHASES SHALL RESULT IN THE OPERATION OF THE EMERGENCY LIGHTING SYSTEM WITHIN THAT AREA.
3. EMERGENCY AND EXIT LIGHTING TO BE PROVIDED WITH ADEQUATE BATTERY CAPACITY TO OPERATE FOR A MINIMUM OF TWO HOURS AFTER LOSS OF POWER AFTER NOT MORE THAN 24HR CHARGING TIME.
4. PROVIDE TEST SWITCH FOR THE TESTING OF ALL EMERGENCY & EXIT LIGHT, PROVIDE APPROPRIATE LABELING FOR ALL CIRCUIT BREAKERS CONTROLLING EMERGENCY AND EXIT LIGHTING SUPPLY -"INTERRUPTING SUPPLY WILL DISCHARGE EMERGENCY LIGHTING BATTERIES".
5. PROVIDE EMERGENCY AND EXIT LIGHTING TESTING LOG BOOKS IN ACCORDANCE WITH AS2293.
6. EXIT SIGNS ARE NOT TO BE INSTALLED ABOVE 2.7M - IN ACCORDANCE WITH AS2293.

LIGHTING

1. LUMINAIRE SCHEDULE SHOULD BE READ IN CONJUNCTION WITH THE FULL SET OF LIGHTING DOCUMENTATION AS WELL AS ARCHITECTURAL, SERVICES DRAWINGS AND ALL LIGHTING CONTROL DOCUMENTATION.
2. BEFORE ORDERING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE LEAD TIMES OF LUMINAIRES ARE WITHIN THE PROGRAMME.
3. CATALOGUE NUMBERS / ORDER CODES ARE INDICATIVE ONLY. WHERE THERE IS A DISCREPANCY BETWEEN THE SPECIFIED LUMINAIRE INFORMATION AND THE CATALOGUE NUMBER PROVIDED CLARIFICATION MUST BE SOUGHT FROM COVA PRIOR TO ORDERING.
4. ALL LUMINAIRE FINISHES TO BE CONFIRMED BY THE ARCHITECT PRIOR TO ORDERING.
5. DATA SHEETS WITH SPECIFICATION INFORMATION SHALL BE PROVIDED FOR ALL LUMINAIRE TYPES FOR APPROVAL BY COVA PRIOR TO ORDER. SHOP DRAWINGS ARE REQUIRED FOR LINEAR LENGTHS AND CUSTOM FITTINGS.
6. FOR SYSTEM WATTAGE OF LUMINAIRES, REFER TO MANUFACTURERS DATA.
7. MOUNTING HEIGHTS TO BE CONFIRMED WITH COVA AND THE ARCHITECT PRIOR TO INSTALLATION.
8. THE CONTRACTOR IS RESPONSIBLE FOR CO-ORDINATING THE LOCATION OF REMOTE DRIVERS IN A SECURE AND ACCESSIBLE LOCATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE DIMMABLE DRIVERS PROVIDED BY THE SUPPLIER ARE COMPATIBLE WITH THE LIGHTING CONTROL SYSTEM AND ALL DIMMING SYSTEMS, PROVIDE DALI CABLING AND ALL REQUIRED PROGRAMMING AND TERMINATIONS. ALL CONTROL GEAR SHALL BE ELECTRONIC.
10. PROVIDE LUMINARIES AS SPECIFIED. ANY PROPOSED ALTERNATIVES WILL BE APPROVED BY COVA AT THE EXPENSE OF THE CONTRACTOR.
11. PROVIDE WORKING SAMPLES OF ALL LUMINARIES AND ACCESSORIES FOR APPROVAL MINIMUM TWO (2) WEEKS PRIOR TO ORDERING, INCLUDING CONTROL GEAR.
12. PROVIDE SHOP DRAWINGS WITH MINIMUM TWO (2) WEEKS PRIOR TO REQUIRED DATE OF MANUFACTURE COMMENCEMENT.

FIRE DETECTION AND ALARM

1. PROVIDE FIRE FIGHTER CONTROLS FOR DEACTIVATION OF THE AIR FILTRATION SYSTEM, LOCATE IN THE SAME ENCLOSURE AS THE FIP, OR IN A WEATHERPROOF ENCLOSURE DIRECTLY ADJACENT.
2. THE FIRE DETECTION AND ALARM SYSTEM IS TO FULLY COMPLY WITH THE LATEST FIRE ENGINEERS REPORT, LIAISE WITH THE PROJECT PRINCIPAL FOR A COPY OF THE LATEST REPORT.

FIRE DETECTION AND ALARM

1. THE FIRE DETECTION SERVICES WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE NCC PART E2.2.
2. DRAWINGS SHOWING FIRE DETECTOR LAYOUTS ARE DIAGRAMMATIC ONLY. BEFORE COMMENCING WORK, DETERMINE THE EXACT POSITIONS OF ALL DETECTORS AND SOUNDERS IN CONJUNCTION WITH THE SUPERINTENDENT, HAVING REGARD TO BUILDING FEATURES, OTHER SERVICES AND THE REQUIREMENTS OF THE REGULATORY AUTHORITIES.
3. FIRE DETECTION CONTROL INDICATING EQUIPMENT (FDCIE): TO AS 1603, AS 1670, AND TO REGULATORY APPROVAL, TESTED TO AS 1603 PART 4 AS SPECIFIED IN TESTING.
4. PROVIDE ISOLATE FACILITIES ON THE NEW FIP TO ENABLE TESTS TO BE CARRIED OUT WITHOUT THE TRANSMISSION OF AN ALARM SIGNAL TO THE FIRE BRIGADE.
5. PROVIDE A FIRE FAN CONTROL PANEL (FFCP) WITH ON/OFF/AUTO FIRE BRIGADE CONTROL WITH INDICATOR ON THE FIP FOR THE CARPARK EXHAUST SYSTEMS (ONE PER CARPARK EXHAUST FAN).
6. PROVIDE OUTPUT TO MECHANICAL AND SECURITY SERVICES FOR FIRE MODE SHUTDOWN AND PROVIDE FIRE FIGHTERS CONTROL PANEL IF REQUIRED FOR CONTROL OF MECHANICAL EQUIPMENT..
7. ALL DETECTORS ARE TO INCORPORATE AN INDIVIDUAL SELF-INDICATING DEVICE, CONSISTING OF A LIGHT EMITTING DIODE (LED), MOUNTED IN A CLEARLY VISIBLE POSITION, WHICH ILLUMINATES WHENEVER THE DETECTOR OPERATION CAUSES AN ALARM CONDITION TO REGISTER ON THE FIP. A FAULTY SELF-INDICATING DEVICE SHALL NOT RENDER THE DETECTOR INOPERATIVE UNDER FIRE CONDITIONS.
8. MOUNTING POSITION:
 - VISIBLE DETECTORS: ON THE OUTSIDE OF THE DETECTOR OR ITS BASE
 - DETECTORS CONCEALED ABOVE CEILINGS: ON THE UNDERSIDE OF THE CEILING IMMEDIATELY BELOW THE DETECTOR
 - DETECTORS IN OTHER CONCEALED SPACES: ON A VISIBLE PANEL CLOSE TO THE CONCEALED SPACE HOUSING THE DETECTOR.
9. INSTALL DETECTORS SO THAT THEY CAN BE EASILY INSPECTED AND TESTED IN SITU, AND READILY WITHDRAWN FROM SERVICE FOR TESTING OR REPLACEMENT
10. USE ONLY DOUBLE INSULATED CABLES WITH RED COLOURED SHEATHING, MINIMUM SIZE 1.5mm2/.
11. SUPPLY, INSTALL & COMMISSION A FULLY COMPLIANT OCCUPANT WARNING SYSTEM (OWS) TO AS 1670.1 INCLUDING ALL ANCILLARY DEVICES, ETC.
12. THE EMERGENCY WARNING SYSTEM SHALL COMPRISE ALL NECESSARY SIGNALLING, AMPLIFICATION, POWER SUPPLIES AND EMERGENCY CONTROL PANELS TO PROVIDE SYSTEM OPERATION IN CONJUNCTION WITH REMOTE ACTUATION DEVICES, IN ACCORDANCE WITH AS 1670.1
13. THE OCCUPANT WARNING SYSTEM SHALL INCORPORATE THE FOLLOWING FUNCTIONS:
GENERATE ALERT AND EVACUATION SIGNALS TO INDIVIDUAL EVACUATION ZONES WITHIN THE PREMISES.
FACILITATE VERBAL ADDRESS TO INDIVIDUAL EVACUATION ZONES THROUGHOUT THE PREMISES.
INDICATE SYSTEM STATUS AND FAULTS.
OPERATE FROM A DEDICATED BATTERY POWER SUPPLY IN THE EVENT OF A POWER FAILURE.
14. CABLING BETWEEN EVACUATION ZONES OR FIRE ISOLATED COMPARTMENTS SHALL BE FIRE RATED.
15. TEST AND COMMISSION THE OWS SYSTEM AND PROVIDE TESTING AND CERTIFICATION REPORTS, IN ACCORDANCE WITH AS 1670.1.
16. PROVIDE CONCEALED SPACE SMOKE DETECTION, COMPLETE WITH REMOTE VISUAL INDICATORS , FOR THE FOLLOWING AREAS:
ALL CEILING VOIDS >800mm DEEP.
WHERE ELECTRICAL LIGHTING OR POWER EQUIPMENT IS LOCATED FULLY WITHIN THE CONCEALED SPACE , WITH MOVING PARTS >100W OTHERWISE >500W.
17. PROVIDE AN INTERFACE FROM THE FIP TO THE AV RACK TO AUTOMATICALLY SHUT DOWN AV ON GFA. DRY FIRE INSTALLER TO PROVIDE INTERFACE CABLE TO AV RACK, AV INSTALLER TO PROVIDE INTERFACE CARD AND TERMINATE INTERFACE CABLE.

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COMMUNICATIONS – VOICE / DATA SYSTEMS AND CABLING

1.

UNLESS OTHERWISE INDICATED, ALL DATA OUTLET LOCATIONS SHALL CONSIST OF A DOUBLE DATA OUTLET UNDER A COMMON FACE PLATE.
2.

UNLESS OTHERWISE OUTLINED, THE COMMUNICATIONS SYSTEM INSTALLATION/ EQUIPMENT SHALL ACHIEVE CAT 6A REQUIREMENTS.
3.

PROVIDE AND TERMINATE RJ 45, CAT 6A, DATA OUTLETS LOCATED AS SHOWN ON THE DRAWINGS.
4.

PROVIDE AND INSTALL CAT 6A UTP HORIZONTAL DATA FIELD CABLING BETWEEN RACK AND DATA OUTLETS. HOOK-AND-LOOP CABLE STRAPS ARE TO BE USED TO SECURE CABLING. PLASTIC ZIP TIES ARE NOT TO BE USED.
5.

PROVIDE LABELLING TO ALL DATA OUTLETS, INCLUDING RACK OF ORIGIN, PATCH PANEL NUMBER AND OUTLET NUMBER. LABELLING SHALL BE INDELLIBLE, PERMANENTLY ATTACHED AND TEXT HEIGHT SHALL BE 5mm MINIMUM. SELF-ADHESIVE PRINTED LABELS SHALL NOT BE ACCEPTED UNLESS MECHANICALLY PROTECTED AGAINST REMOVAL.
6.

PROVIDE TELECOMMUNICATIONS EARTHING SYSTEMS IN ACCORDANCE WITH AS/NZS 3000.
7.

THE CONTRACTOR SHALL ALLOW TO INSTALL, TEST AND COMMISSION ALL ACTIVE EQUIPMENT WITHIN THE COMMUNICATION RACKS.
8.

PERFORM INSPECTION, TESTING AND COMMISSIONING. TESTS SHALL INCLUDE THE FULL SET OF TESTS REQUIRED TO CONFIRM PERFORMANCE TO AS/NZS IEC 61935.1 AND AS/NZS 11801 PARTS 1 AND 2.
9.

CARRY OUT ALL WORK IN COMPLIANCE WITH AUSTRALIAN STANDARDS, INCLUDING CERTIFYING THE COMPLETED SYSTEMS WITH MANUFACTURER'S WARRANTIES.
10.

PROVIDE AS-INSTALLED DOCUMENTATION AND MANUALS INCLUDING ALL TERMINATION RECORDS, CABLE ROUTE PLANS, COMMISSIONING TEST RECORDS AND MAINTENANCE LOGBOOKS.
11.

SUPPLY ALL PLANT, LABOUR AND MATERIALS NECESSARY FOR THE COMPLETION AND PROPER INSTALLATION OF THE SYSTEM.

POWER

1.

LABEL ALL SWITCHBOARDS AND PROVIDE SWITCHBOARD SCHEDULES OF ALL CIRCUITS. SWITCHBOARD SCHEDULES SHALL BE IN TYPED FORMAT AND LAMINATED.
2.

PROVIDE LABELLING TO ALL GPO'S, INCLUDING DB OF ORIGIN AND CIRCUIT NUMBER. LABELLING SHALL BE INDELLIBLE, PERMANENTLY ATTACHED AND TEXT HEIGHT SHALL BE 5MM MINIMUM. SELF-ADHESIVE PRINTED LABELS SHALL NOT BE ACCEPTED UNLESS MECHANICALLY PROTECTED AGAINST REMOVAL.
3.

EARTH ALL ELECTRICAL SERVICES IN ACCORDANCE WITH AS 3000 WIRING RULES AND SUPPLY AUTHORITY REQUIREMENTS, INCLUDING M.E.N EARTHING TO ALL GPO'S AND LUMINAIRES.
4.

PROVIDE A POWER SUPPLY TO THE MSSB AND ALLOW TO TERMINATE THE SUBMAINS CABLE ONTO THE MSSB ISOLATOR. LIAISE WITH THE MECHANICAL CONTRACTOR.
5.

ALL SWITCHBOARDS LOCATED WITHIN PATHS OF EGRESS SHALL BE IP-5x RATED OR HIGHER.
6.

PROVIDE 100KA SURGE PROTECTION TO ALL NEW MAIN SWITCHBOARDS AND 50KA SURGE PROTECTION TO ALL NEW DISTRIBUTION BOARDS. IF SPD IS INSTALLED FURTHER THAN 10 METER FROM A MEN LINK, A 4 POLE SPD IS REQUIRED.
7.

PROVIDE "TESTING AND TAGGING" OF ALL ELECTRICAL SERVICES EQUIPMENT.
8.

THERMOGRAPHICALLY TEST, UNDER LOAD, ALL SWITCHBOARDS AND DISTRIBUTION BOARDS UPON COMPLETION OF WORKS. SEPARATE PROTECTION TO BUS BAR AND CABLE TERMINATIONS SHALL ALLOW FULL REVIEW OF ALL BOLTED CONNECTIONS.
9.

PROVIDE, INSTALL AND COMMISSION ALL REQUIRED PARTS OF THE LV DISTRIBUTION SYSTEM, INCLUDING ALL CABLING CIRCUIT BREAKERS, PROTECTION DEVICES, TIME CLOCKS, CONTROLS, ETC.
10.

CONFIRM ALL CASCADING AND SELECTIVITY OF CIRCUIT PROTECTION AND THE INSTALLATION AS A WHOLE.
11.

CONFIRM CIRCUIT BREAKER SIZES AND CABLE REQUIREMENTS FOR ALL SUPPLIES TO OTHER TRADES PRIOR TO SWITCHBOARD DESIGN OR MANUFACTURE. LIAISE WITH ALL OTHER TRADES.
12.

OUTLETS OR ACCESSORIES IN DAMP OR EXTERIOR LOCATIONS SHALL BE IP56 RATED TO AS 1939. ALL POWER OUTLETS IN THE BODY CORPORATE AREA SHALL BE PROVIDED WITH A LABEL SHOWING THE CIRCUIT IT IS CONNECTED TO
13.

1THE FINAL LOCATION AND MOUNTING HEIGHT OF ALL GPO'S SHALL BE DETERMINED BY THE CONTRACTOR IN LIAISON WITH THE SUPERINTENDENT AND FINAL FURNITURE, JOINERY AND EQUIPMENT LAYOUTS PRIOR TO ROUGH IN OF WIRING AND FIT OFF OF OUTLETS. NO VARIATION WILL BE CONSIDERED FOR THE RELOCATION OF THE OUTLETS SHOULD THE CONTRACTOR FAIL TO COORDINATE THEIR LOCATIONS.
14.

PROVIDE ISOLATING SWITCHES ADJACENT TO EACH ITEM OF PERMANENTLY CONNECTED EQUIPMENT. ISOLATORS SHALL BE OF THE SAME OR GREATER RATING THAN THE CIRCUIT WIRING. WIRING TO THE EQUIPMENT FROM THE ISOLATING SWITCH SHALL BE ENCLOSED IN PVC AND STEEL FLEXIBLE CONDUIT AND ASSOCIATED CLAMPS AND FITTINGS.
15.

WHERE PERMANENTLY CONNECTED EQUIPMENT WILL BE PROVIDED BY OTHERS, DETERMINE ALL NECESSARY ELECTRICAL DETAILS FOR THE ELECTRICAL CONNECTION PRIOR TO COMMENCING THE INSTALLATION.
16.

LIAISE WITH THE LOCAL SUPPLY AUTHORITY AS REQUIRED AND ADJUST THE SUPPLY CAPACITY CONTROL DEVICE TO SUIT THE AVAILABLE POWER OFFER. PAY ALL REQUIRED SUPPLY AUTHORITY FEES AND ALLOW FOR ALL LIAISON, AS REQUIRED FOR A THE NECESSARY FULLY FUNCTIONAL POWER SUPPLY.
17.

ALLOW TO LODGE AN ELECTRICAL WORKS REQUEST WITH THE LOCAL SUPPLY AUTHORITY AND PAY ALL ASSOCIATED CONNECTION FEES (SOMETIMES CALLED THE BASIC CONNECTION FEE), LIAISE WITH THE LOCAL SUPPLY AUTHORITY FOR FULL DETAILS OF THEIR FEE STRUCTURE.
18.

EQUIPMENT CONNECTED TO SUB CIRCUITS SHALL FOLLOW THE FOLLOWING REQUIREMENT:

A.

15 AMP OUTLETS:

MAXIMUM OF ONE OUTLET PER CIRCUIT.

B.

10 AMP SOCKET OUTLETS:

MAXIMUM OF 8 DOUBLE SOCKET OUTLETS PER CIRCUIT.

C.

COMPUTER POWER OUTLETS:

MAXIMUM OF 8 DOUBLE SOCKET OUTLETS PER CIRCUIT.

D.

LIGHTING SUB CIRCUITS:

MAXIMUM OF 1800 WATTS CONNECTED LOAD.

E.

ISOLATING SWITCHES:

RATING OF EQUIPMENT. 1 PER CIRCUIT UNLESS NOTED OTHERWISE

20.

SUB-CIRCUIT MINIMUM CABLE SIZE (INCREASE SIZE WERE NECESSARY FOR REASONS OF VOLTAGE DROP OR DERATING TO AS3008.1 AND AS3000)

LIGHTING SUB-CIRCUIT, INCLUDING EMERGENCY LIGHTING - 2.5MM²

GENERAL PURPOSE POWER CIRCUITS- 2.5MM²

CONTROL CIRCUIT INCLUDING ALARM, EWIS, ETC. - 1.5MM²

FLEXIBLE CORDS - 1.5MM²

OVENS, STOVES & HEATERS ETC. - 4.0MM²

LOW VOLTAGE CABLES (12V) - 4.0MM²
21.

SUBMIT SHOP DRAWINGS FOR ALL MAIN SWITCHBOARDS AND METER PANELS TO THE POWER AUTHORITY FOR APPROVAL PRIOR TO MANUFACTURE. LIAISE WITH THE POWER AUTHORITY AND ALLOW ENOUGH TIME FOR THEIR APPROVALS.
22.

PROVIDE EQUIPOTENTIAL BONDING IN ACCORDANCE WITH AS3000 SECTION 5.6, INCLUDING BUT NOT LIMITED TO CONDUCTIVE PIPING, BUILDING STRUCTURE (NOTABLY SLAB REINFORCEMENT IN WET AREAS), ELECTRICAL EQUIPMENT, CONDUCTIVE FIXTURES AND FITTINGS AND ADDITIONAL REQUIREMENTS IDENTIFIED IN CLAUSE 5.6.2.1.

SECURITY AND ACCESS CONTROL

1.

PROVIDE ALL CABLING, CONTAINMENT, POWER SUPPLIES, ACCESSORIES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SECURITY AND ACCESS CONTROL SYSTEM.
2.

SECURITY ACCESS DOORS SHALL BE PROVIDED WITH CONNECTION TO FIP TO RELEASE ON FIRE MODE OR GFA SIGNAL.

CCTV SYSTEM

1.

PROVIDE ALL CABLING, CONTAINMENT, POWER SUPPLIES, ACCESSORIES AND EQUIPMENT AS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL CCTV SYSTEM.
2.

PROVIDE ADELL PC SUITABLE FOR FULL CONTROL AND INTERROGATION OF THE CCTV SYSTEM. FULLY FUNCTIONAL, WITH ALL NECESSARY ACCESSORIES, POWER SUPPLIES, HARDWARE AND SOFTWARE.
3.

PROVIDE AN ETHERNET INTERFACE FROM THE CCTV HEADEND TO ALLOW FOR REMOTE MONITORING OF THE SYSTEM, AND PROVIDE AN INTERFACE FOR SMART PHONE MONITORING OF THE SYSTEM. LIAISE WITH CLIENT PRIOR TO PROCUREMENT AND INSTALLATION OF THE SYSTEM.

SOLAR PV SYSTEM

1.

PROVIDE FULL SYSTEM DESIGN, SUPPLY, DELIVERY, INSTALLATION, TESTING AND COMMISSIONING OF THE PHOTOVOLTAIC SYSTEM, INCLUDING ALL NECESSARY EQUIPMENT, CABLING, CONTAINMENT, LABOUR AND ACCESSORIES IN ORDER TO ACHIEVE A FULLY OPERATIONAL SYSTEM CONNECTED TO THE ELECTRICITY GRID.
2.

THE SOLAR PV SYSTEM RETAILER SHALL BE ACCREDITED BY THE "CLEAN ENERGY COUNCIL" SIGNED UP TO ABIDE BY THEIR "RETAILER CODE OF CONDUCT".
3.

THE SOLAR PV SYSTEM MUST COMPLY WITH THE FOLLOWING STANDARDS AND GUIDELINES:

- CLEAN ENERGY COUNCIL DOCUMENT "INSTALL AND SUPERVISE GUIDELINES FOR ACCREDITED INSTALLERS"

- AS5033 - INSTALLATION AND SAFETY REQUIREMENTS FOR PHOTOVOLTAIC (PV) ARRAYS

- AS/NZS 4509.1 - STANDALONE POWER SYSTEMS SAFETY AND INSTALLATION

- AS/NZS 4509.2 - STANDALONE POWER SYSTEMS DESIGN

- AS4777.2 - INVERTER REQUIREMENTS

- AS1170.2 - STRUCTURAL DESIGN ACTIONS - WIND ACTIONS
4.

IF ANY CONFLICTS OCCUR BETWEEN THIS DOCUMENT AND THE ABOVE STANDARDS - THE TENDERER SHALL REPORT THIS DURING THE TENDER PERIOD AND SEEK CLARIFICATION FROM THE ENGINEER.
5.

ALL EQUIPMENT AND ACCESSORIES MUST BE INSTALLED TO THE MANUFACTURERS' RECOMMENDATIONS.
6.

ALL PV PANELS TO BE THOROUGHLY CLEANED AT PROJECT COMPLETION TO ENSURE SYSTEM DELIVERS MAXIMUM OUTPUT AT HANDOVER DATE.
7.

IT IS THE RESPONSIBILITY OF THE TENDERER TO HIGHLIGHT THE SUITABILITY OF THE NOMINATED ROOF AREAS FOR THE PROPOSED PV INSTALLATION. IF THE SPECIFIED CAPACITY CANNOT BE ACHIEVED- THE TENDERER MUST CLEARLY HIGHLIGHT THIS IN THEIR TENDER SUBMISSION.
8.

THE TENDERER MUST PROVIDE SEPARATE TENDER COSTS WITH AND WITHOUT STCs CREDITS.
9.

PRIOR TO ORDERING EQUIPMENT THE FOLLOWING DOCUMENTS MUST BE SUPPLIED TO THE ENGINEER FOR APPROVAL:

- RETURN BRIEF DEFINING THE SYSTEMS PROPOSED AND ANY DEVIATIONS FROM THE SPECIFICATION

- SYSTEM SIZING CALCULATIONS AND PERFORMANCE ESTIMATES

- WORKSHOP DRAWINGS INCLUDING AS A MINIMUM:

- PLAN VIEW OF THE PROPOSED ARRAYS IDENTIFYING KEY FEATURES INCLUDING SHADING CONSIDERATIONS

- SINGLE LINE DIAGRAMS

- EARTHING DIAGRAM

- MOUNTING DETAILS

- ALL EQUIPMENT DETAILS INCLUDING PANELS, BATTERIES, INVERTERS, OPTIMISERS, BACKUP GENERATOR ETC.
10.

SOLAR PV PANELS TO BE WIRED AS STRINGS OR ARRAYS ACHIEVING A TOTAL PEAK OUTPUT OF 10kW.
11.

PROVIDE SOLAR INVERTERS DELIVERING A MAXIMUM TOTAL CAPACITY OF 10kW.
12.

PROVIDE SUPPORT FRAMING TO ACCOMMODATE THE PV PANELS TILTED AS REQUIRED TO ACHIEVE THE MAXIMUM SYSTEM OUTPUT.
13.

1PROVIDE POWER DISTRIBUTION SYSTEM AS REQUIRED INCLUDING BUT NOT LIMITED TO:

- AC CABLING

- DC CABLING

- DISTRIBUTION BOARD

- CIRCUIT BREAKERS AND ISOLATING SWITCHES
14.

ALLOW FOR CLIENT TRAINING AT HANDOVER - 4hrs
15.

PROVIDE THE FOLLOWING PRODUCT WARRANTIES (FROM HANDOVER DATE):

- SOLAR PV PANELS - MIN 25 YEARS

- INVERTERS - MIN 15 YEARS

- SUPPORT FRAMING - MIN 5 YEARS

- ALL OTHER SYSTEM EQUIPMENT - MIN 12 MONTHS

INSPECTION OF SITE PRIOR TO TENDER

1.

IT SHALL BE DEEMED THAT THE TENDERER HAS VISITED THE SITE AND EXAMINED ALL AREAS ASSOCIATED WITH THE WORKS, IDENTIFYING DIFFICULTIES, ETC., AND ALLOWING FOR SAME IN THE TENDER PRICE, WITH CLARIFICATION PROVIDED. NO VARIATION WILL BE ACCEPTED ON THE BASIS OF LACK OF FOREKNOWLEDGE OF SITE CONDITIONS WHICH SHOULD HAVE BEEN IDENTIFIED THROUGH SITE INSPECTION OR ENQUIRY PRIOR TO TENDER.

TESTING AND COMMISSIONING

1.

PROVIDE ALL TESTING AND COMMISSIONING SERVICES IN COMPLIANCE WITH RELEVANT AUSTRALIAN STANDARDS, POWER AUTHORITY AND THE ACA. CARRY OUT INDIVIDUAL TESTS ON ALL CIRCUITS AND PROVIDE COMPLIANCE REPORTS ON THE FOLLOWING TESTS AS A MINIMUM:

- INSULATION RESISTANCE;

- VOLTAGE AT OUTLETS/LUMINAIRES;

- FUNCTIONAL CHECKS ON ALL EQUIPMENT AND CIRCUITS;

- EARTH RESISTANCE;

- EARTH CURRENT AFTER MEGGER OF NEUTRALS;

- TESTS AS REQUIRED BY AS 3000, SUPPLY AUTHORITY, ACA;

- EMERGENCY LIGHTING TESTS TO AS 2293.2;

- PERMANENT LINK TEST OF ALL COMMUNICATIONS OUTLETS & PROVIDE PRINT OUT WITH FULL DETAILS/OUTLET;

- ELECTRICAL INTERFERENCE WITH RADIO, TV, WIRELESS DATA, COMMUNICATIONS;
1.

LOCATE AND UPDATE EXISTING EMERGENCY LIGHTING LOG BOOK.
2.

COMMISSIONING TESTS IN ACCORDANCE WITH AS2293.1-2018 MUST BE COMPLETED AND DOCUMENTED IN FULL INCLUDING THE FOLLOWING:

- TESTING ON MAINS POWER FAIL OPERATION FOR A MINIMUM OF 2HR DURATION.

- VERIFICATION OF CORRECT OPERATION IN RELATION TO THE NORMAL LIGHTING IN EACH AREA SERVED.

- ALL EMERGENCY LIGHTS AND EXIT SIGNS TO BE IDENTIFIED WITH UNIQUE NUMBERS CORRESPONDING TO THE AS-BUILT DRAWINGS AND REFERENCED IN THE LOGBOOK.
3.

TESTS TO BE RECORDED IN A HARD COVER BOUND LOGBOOK IN ACCORDANCE WITH AS2293.1-2018 AND 2293.2-2019.
4.

DURING THE 12 MONTH DEFECTS LIABILITY PERIOD- REGULAR TESTING, INSPECTION AND REPORTING OF THE EMERGENCY AND EXIT LIGHTING IS TO BE CARRIED OUT IN ACCORDANCE WITH AS2293.2-2019, INCLUDING A 6 MONTHLY ROUTINE AND YEARLY ROUTINE. THE TEARLY ROUTINE IS TO BE CARRIED OUT DURING THE FINAL MONTH OF THE DEFECT LIABILITY PERIOD WITH RECORDS PROVIDED AND ANY DEFECTS RECTIFIED PRIOR TO THE CLOSE OUT OF DEFECT LIABILITY. RECORDS MUST BE PROVIDED AS PART OF THE ASSESSMENT FOR THE FIRST ANNUAL FIRE SAFETY STATEMENT.

MAINTENANCE, DRAWINGS, MANUALS & APPROVALS

1.

PROVIDE MAINTENANCE COEXTENSIVE WITH DEFECTS LIABILITY PERIOD, COMMENCING AT DATE OF FULLY APPROVED PRACTICAL COMPLETION. PROMPTLY (WITHIN SEVEN (7) DAYS) RECTIFY ALL FAULTS DETECTED OR REPORTED DURING MAINTENANCE PERIOD. REPLACE FAULTY MATERIALS AND EQUIPMENT, INCLUDING LUMINAIRE LAMPS AND ACCESSORIES. AFTER 12 MONTHS
2.

PROVIDE A FINAL SERVICE AND NOTIFY IN WRITING THAT ALL ASPECTS OF THE INSTALLATION ARE OPERATING CORRECTLY & TO APPROVAL
3.

PROVIDE AS INSTALLED DRAWINGS AT COMPLETION OF THE WORKS INDICATING ALL DETAILS OF WORKS CARRIED OUT INCLUDING CIRCUIT DESIGNATIONS ETC., TO APPROVAL
4.

1PROVIDE AS INSTALLED MANUALS AT COMPLETION OF THE WORKS INDICATING ALL DETAILS OF WORKS CARRIED OUT INCLUDING LUMINAIRE DATA SHEETS, ACCESSORY DATA SHEETS AND SUPPLIER LIST ETC., TO APPROVAL
5.

PROVIDE ALL RELEVANT TESTING AND COMMISSIONING REPORTS COVERING ALL SYSTEMS.
6.

PROVIDE AS-INSTALLED DRAWINGS AND OPERATION AND MAINTENANCE MANUALS.
7.

AT PRACTICAL COMPLETION PROVIDE A CERTIFICATE OF ELECTRICAL SAFETY COVERING THE ELECTRICAL INSTALLATION. THE ORIGINAL SHALL GO TO THE CLIENTS REPRESENTATIVE AND A COPY SHOULD BE PLACED IN THE OPERATIONS AND MAINTENANCE MANUAL.
8.

PRIOR TO COMMENCEMENT OF WORK, ALLOW TO CONDUCT A 2 HOUR MEETING WITH ENGINEER TO VERIFY UNDERSTANDING OF DESIGN AND CONTROL INTENT OF ALL SYSTEMS.
9.

PROVIDE WORKSHOP DRAWINGS PRIOR TO THE COMMENCEMENT OF WORKS ON SITE FOR REVIEW AND APPROVAL BY ENGINEER. DRAWINGS ARE TO INCLUDE DETAILS OF EQUIPMENT SCHEDULES, ARRANGEMENT OF EQUIPMENT AND MOUNTING, RETICULATION, MAX DEMAND CALCULATIONS AND CONTROLS INCLUDING DETAILED FUNCTIONAL DESCRIPTIONS.
10.

ON COMPLETION OF WORKS PROVIDE AS-INSTALLED DRAWINGS DETAILING ALL INFORMATION AS DETAILED IN WORKSHOP DRAWINGS, IN ADDITION TO ALL ALTERATIONS MADE ON SITE, INCLUDING ALL CHANGES TO SCOPE MADE BY ENGINEERS DIRECTIONS, SITE INSTRUCTION ETC. PROVIDE WRITTEN STATEMENT WITH AS-INSTALLED DRAWINGS CONFIRMING THEIR ACCURACY.
11.

ALLOW TO PROVIDE 2 HOUR TRAINING IN PURPOSE AND OPERATION OF ALL ELECTRICAL SYSTEMS. TRAINING SHALL BE CARRIED OUT BY COMPETENT TRAINING PERSONNEL KNOWLEDGEABLE ABOUT THE INSTALLATIONS, AND CONDUCTED IN CONJUNCTION WITH REFERENCE TO O&M MANUALS.
12.

PROVIDE 3 COPIES OF AS-INSTALLED DRAWINGS AND OPERATIONS & MAINTENANCE MANUALS. MANUALS TO INCLUDE EXPLANATION OF THE BUILDING AND SYSTEM OPERATIONS OUTLINING THE DESIGN INTENT, SPECIFICATIONS, SCHEDULES, WARRANTY, COMMISSIONING AND BUILDING TUNING DATA. A USB DRIVE OR CD LOADED WITH THE FULL MANUAL SHALL BE PROVIDED WITH EACH MANUAL.

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DO NOT SCALE THIS DRAWING. use only dimensions shown. All dimensions should be checked on site. Drawing to be read in conjunction with the associated notes and specifications. Drawing to be read in conjunction with all other services, architectural and structural. These designs, drawings and specifications are copyright and must not be altered, reproduced or copied wholly or in any part without the written permission of COVA THINKING Pty Ltd. All rights reserved.



E100-SITE PLAN
SCALE: 1 : 100

B		DETAILED DESIGN		DU	AZ	GM	22.04.26
A		PRELIMINARY ISSUE		DU	AZ	GM	27.03.26
REV		DESCRIPTION		DRN	RE	PL	DATE

DRAWING CHECK		CO-ORDINATION CHECK	
SIGNATURE	DATE	SIGNATURE	DATE
DRAWN		STRUCT.	
DESIGNED		MECH.	
CHECKED		ELECT.	
		HYDRO/CIVIL	
		FIRE/ENV.	

CLIENT		KENNEDY ASSOCIATES ARCHITECTS		WITH TERROIR	
E mail@kennedyassociates.com.au		W www.kennedyassociates.com.au		E sydney@terroir.com.au	
P +61 2 9557 6466		P +61 2 9557 6466		W www.terroir.com.au	
Level 3, 1 Booth Street		Level 3, 1 Booth Street		Level 2/79 Myrtle St.	
Annandale NSW 2038		Annandale NSW 2038		Chippendale NSW 2008	

COVA
Stronger Together
1800 00 COVA covathinking.com
ACN 117 492 814

PROJECT	PCLI - HENLEY
	6 CROWN CLOSE, HENLEY, NSW
	2111

TITLE	ELECTRICAL SERVICES
	SITE PLAN

2000	0	2000	4000	6000	A1
STATUS					
PRELIMINARY ISSUE					
NOT TO BE USED FOR CONSTRUCTION					
SCALE @ A1		DIMENSIONS IN		MILLIMETRES	
DRAWING No.		5511.008-1 - E100		REV.	
				B	

REFERENCE NOTES

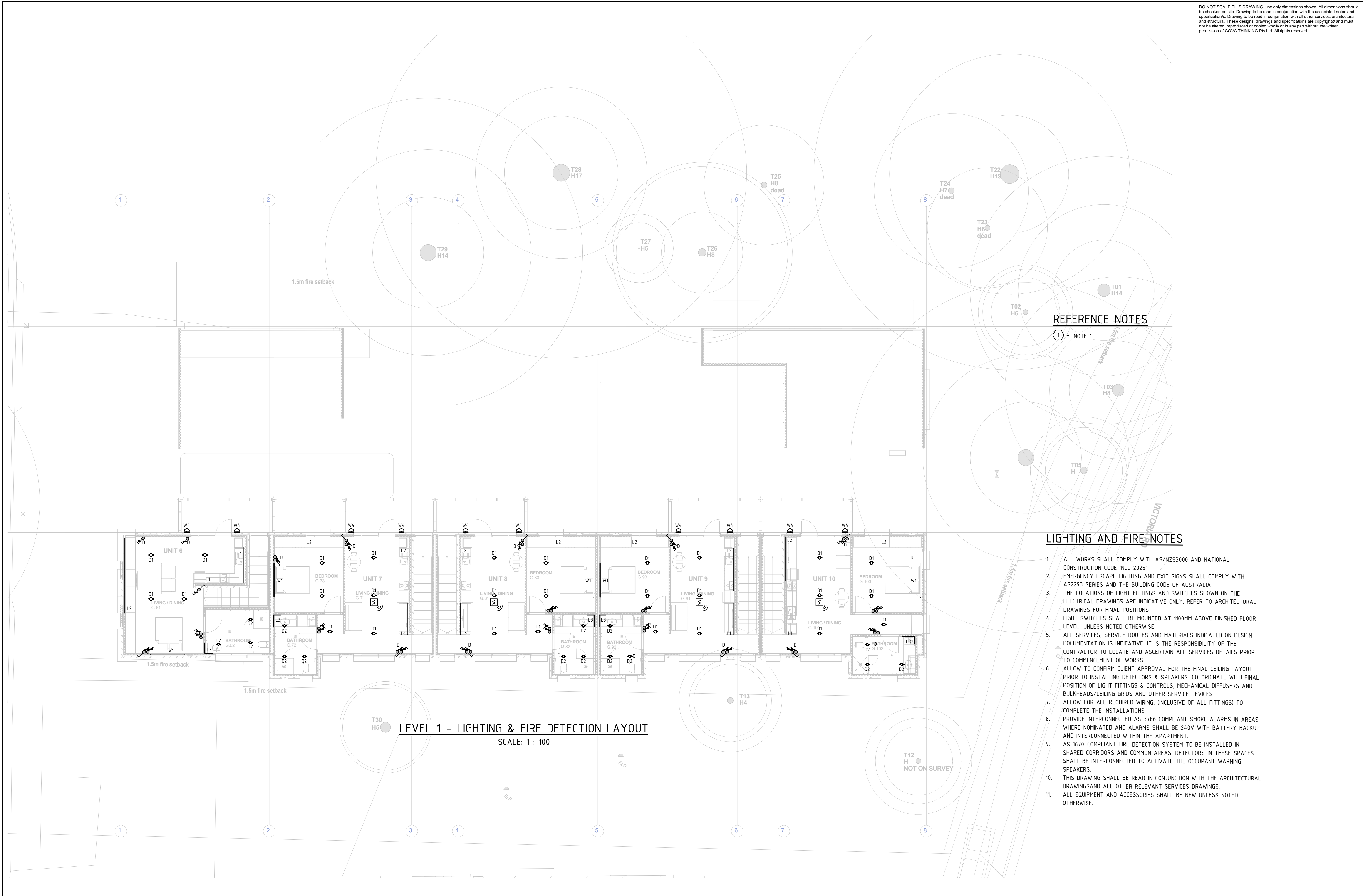
1 - NOTE 1

LIGHTING AND FIRE NOTES

- ALL WORKS SHALL COMPLY WITH AS/NZS3000 AND NATIONAL CONSTRUCTION CODE 'NCC 2025'
- EMERGENCY ESCAPE LIGHTING AND EXIT SIGNS SHALL COMPLY WITH AS2293 SERIES AND THE BUILDING CODE OF AUSTRALIA
- THE LOCATIONS OF LIGHT FITTINGS AND SWITCHES SHOWN ON THE ELECTRICAL DRAWINGS ARE INDICATIVE ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL POSITIONS
- LIGHT SWITCHES SHALL BE MOUNTED AT 1100MM ABOVE FINISHED FLOOR LEVEL, UNLESS NOTED OTHERWISE
- ALL SERVICES, SERVICE ROUTES AND MATERIALS INDICATED ON DESIGN DOCUMENTATION IS INDICATIVE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND ASCERTAIN ALL SERVICES DETAILS PRIOR TO COMMENCEMENT OF WORKS
- ALLOW TO CONFIRM CLIENT APPROVAL FOR THE FINAL CEILING LAYOUT PRIOR TO INSTALLING DETECTORS & SPEAKERS. CO-ORDINATE WITH FINAL POSITION OF LIGHT FITTINGS & CONTROLS, MECHANICAL DIFFUSERS AND BULKHEADS/CEILING GRIDS AND OTHER SERVICE DEVICES
- ALLOW FOR ALL REQUIRED WIRING, (INCLUSIVE OF ALL FITTINGS) TO COMPLETE THE INSTALLATIONS
- PROVIDE INTERCONNECTED AS 3786 COMPLIANT SMOKE ALARMS IN AREAS WHERE NOMINATED AND ALARMS SHALL BE 240V WITH BATTERY BACKUP AND INTERCONNECTED WITHIN THE APARTMENT.
- AS 1670-COMPLIANT FIRE DETECTION SYSTEM TO BE INSTALLED IN SHARED CORRIDORS AND COMMON AREAS. DETECTORS IN THESE SPACES SHALL BE INTERCONNECTED TO ACTIVATE THE OCCUPANT WARNING SPEAKERS.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND ALL OTHER RELEVANT SERVICES DRAWINGS.
- ALL EQUIPMENT AND ACCESSORIES SHALL BE NEW UNLESS NOTED OTHERWISE.

GROUND - LIGHTING & FIRE DETECTION LAYOUT

SCALE: 1 : 100



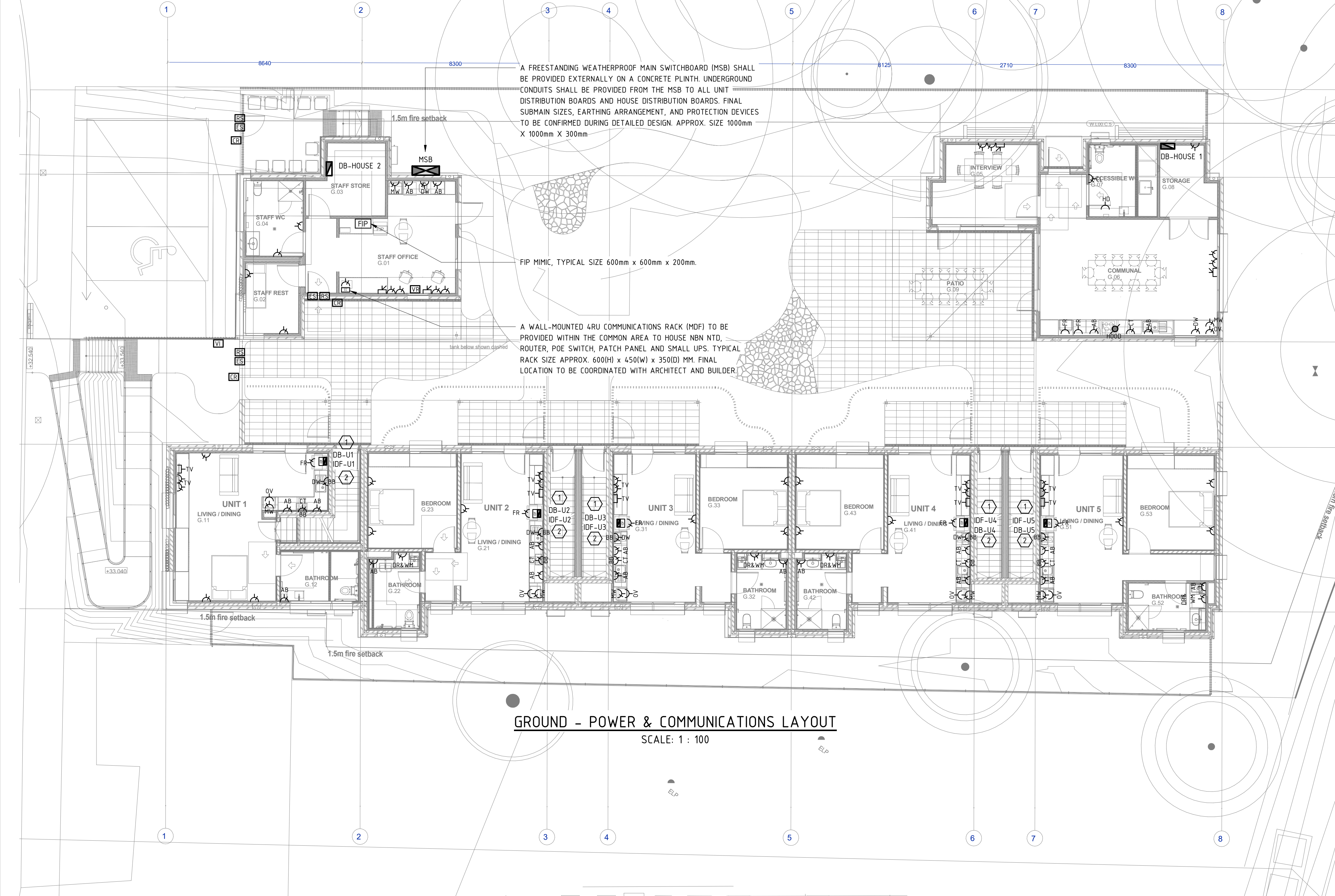
REFERENCE NOTES

1 - NOTE 1

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										DRAWING CHECK <table><tr><td colspan="2">SIGNATURE</td><td colspan="2">DATE</td></tr><tr><td>DRAWN</td><td colspan="2"></td><td></td></tr><tr><td>DESIGNED</td><td colspan="2"></td><td></td></tr><tr><td>CHECKED</td><td colspan="2"></td><td></td></tr></table>				SIGNATURE		DATE		DRAWN				DESIGNED				CHECKED				CO-ORDINATION CHECK <table><tr><td colspan="2">SIGNATURE</td><td colspan="2">DATE</td></tr><tr><td>STRUCT.</td><td colspan="2"></td><td></td></tr><tr><td>MECH.</td><td colspan="2"></td><td></td></tr><tr><td>ELECT.</td><td colspan="2"></td><td></td></tr><tr><td>HYDRO/CIVIL</td><td colspan="2"></td><td></td></tr><tr><td>FIRE/ENV</td><td colspan="2"></td><td></td></tr></table>				SIGNATURE		DATE		STRUCT.				MECH.				ELECT.				HYDRO/CIVIL				FIRE/ENV				CLIENT kennedy associates architects with TERROIR sydney@terroir.com.au www.terroir.com.au +61 2 9698 2198 Level 3, 1 Booth Street Armadale NSW 2038				PROJECT COVA Stronger Together 1800 00 COVA covathinking.com ACN 117 492 814				TITLE PCLI - HENLEY 6 CROWN CLOSE, HENLEY, NSW 2111				TITLE ELECTRICAL SERVICES LEVEL 1 - LIGHTING & FIRE DETECTION LAYOUT				2000 0 2000 4000 6000 A1 STATUS PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION SCALE @ A1 DIMENSIONS IN MILLIMETRES			
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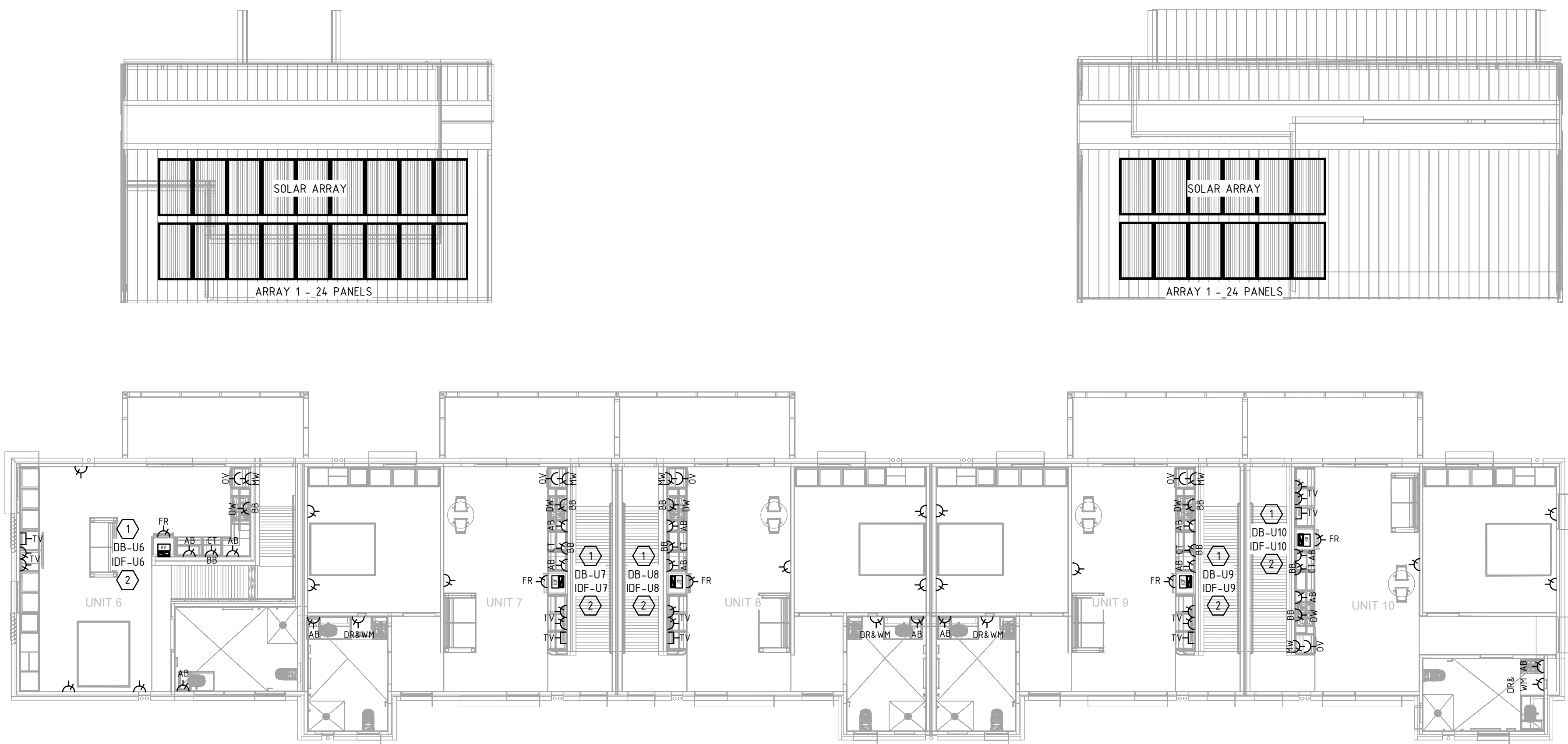
- 1 - EACH STUDIO UNIT SHALL BE PROVIDED WITH A COMPACT 12-POLE DISTRIBUTION BOARD TO SERVE LIGHTING, GENERAL POWER, KITCHEN POWER, AIR-CONDITIONING AND 3-PHASE HOT WATER UNIT. TYPICAL DB SIZE APPROX. 260H x 210W x 100D mm. LOCATION TO BE COORDINATED WITH ARCHITECT.
- 2 - EACH UNIT SHALL BE PROVIDED WITH A SMALL WALL-MOUNT COMMUNICATIONS DATA HUB (IDF) TO TERMINATE CAT6A DATA CABLING FROM THE MAIN COMMS RACK AND TO HOUSE LOCAL WI-FI ROUTER. TYPICAL IDF SIZE APPROX. 300(W) x 300(H) x 150(D) MM. IDF LOCATION TO BE COORDINATED.

POWER AND COMMUNICATION NOTES

1. ALL WORKS SHALL COMPLY WITH AS/NZS3000 AND NATIONAL CONSTRUCTION CODE 'NCC 2025'
2. THE LOCATIONS OF SOCKET OUTLETS AND COMMUNICATIONS OUTLETS SHOWN ON THE ELECTRICAL DRAWINGS ARE INDICATIVE ONLY. REFER TO THE ARCHITECTURAL DRAWING FOR THE FINAL POSITIONS
3. SOCKET OUTLETS AND COMMUNICATIONS OUTLETS SHALL BE MOUNTED AT 300MM ABOVE FINISHED FLOOR LEVEL OR 150MM ABOVE BENCH LEVEL UNLESS NOTED OTHERWISE
4. LABEL ALL SOCKET OUTLETS WITH THE DISTRIBUTION BOARD NUMBER AND CIRCUIT BREAKER NUMBER
5. FIRE RATED WALL BOXES AND SEALANT SHALL BE INSTALLED FOR SOCKET OUTLETS AND COMMUNICATIONS OUTLETS IN COMMON WALLS BETWEEN BEDROOMS AND IN FIRE RATED AND ACOUSTIC RATED WALLS
6. SEPARATION OF ELECTRICAL AND COMMUNICATIONS OUTLETS SHALL BE MAINTAINED IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA. OBTAIN FINAL EQUIPMENT LOCATIONS AND RATINGS OF OTHER SERVICES EQUIPMENT AND PANELS PRIOR TO INSTALLATION OF THEIR POWER SUPPLIES
7. SUPPLY AND INSTALL LOCAL ISOLATORS OR SOCKET OUTLETS FOR THE HYDRAULIC AND MECHANICAL SERVICES EQUIPMENT INDICATED. EXACT LOCATION AND RATING OF THE ISOLATORS OR SOCKET OUTLETS SHALL BE VERIFIED ON SITE AND CONFIRMED IN WRITING WITH THE HYDRAULIC OR MECHANICAL SERVICES TRADE RESPECTIVELY PRIOR TO INSTALLATION.
8. ALL CLEANERS OUTLETS TO BE ON A SEPARATE CIRCUIT.
9. CONTRACTOR SHALL REFER TO ARCHITECT'S JOINERY DETAILS DRAWINGS FOR THE OUTLETS SETOUT POSITION FOR INSTALLATION.
10. CONTRACTOR SHALL DESIGN, SUPPLY AND INSTALL A COMPLETE BESS INCLUDING ALL ASSOCIATED INVERTERS, CONTROLS, PROTECTION AND CABLING. FINAL BATTERY SIZE SHALL BE DETERMINED BY THE CONTRACTOR BASED ON SITE LOADS AND REQUIRED BACKUP DURATION. BESS SHALL BE INSTALLED EXTERNALLY IN A SUITABLE LOCATION, COORDINATED WITH ALL SERVICES AND COMPLIANT WITH CLEARANCE, ACCESS AND SAFETY REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL NECESSARY ISOLATION, CHANGEOVER, INTERLOCKING AND LOAD SHEDDING TO ENSURE SAFE OPERATION AND PREVENT BACKFEED.

GROUND - POWER & COMMUNICATIONS LAYOUT
SCALE: 1 : 100

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LEVEL 1 - POWER & COMMUNICATIONS LAYOUT

SCALE: 1 : 100

REFERENCE NOTES

- 1 - EACH STUDIO UNIT SHALL BE PROVIDED WITH A COMPACT 12-POLE DISTRIBUTION BOARD TO SERVE LIGHTING, GENERAL POWER, KITCHEN POWER, AIR-CONDITIONING AND 3-PHASE HOT WATER UNIT. TYPICAL DB SIZE APPROX. 260H x 210W x 100D mm. LOCATION TO BE COORDINATED WITH ARCHITECT.
- 2 - EACH UNIT SHALL BE PROVIDED WITH A SMALL WALL-MOUNT COMMUNICATIONS DATA HUB (IDF) TO TERMINATE CAT6A DATA CABLING FROM THE MAIN COMMS RACK AND TO HOUSE LOCAL WI-FI ROUTER. TYPICAL IDF SIZE APPROX. 300(W) x 300(H) x 150(D) MM. IDF LOCATION TO BE COORDINATED.

POWER AND COMMUNICATION NOTES

- ALL WORKS SHALL COMPLY WITH AS/NZS3000 AND NATIONAL CONSTRUCTION CODE 'NCC 2025'
- THE LOCATIONS OF SOCKET OUTLETS AND COMMUNICATIONS OUTLETS SHOWN ON THE ELECTRICAL DRAWINGS ARE INDICATIVE ONLY. REFER TO THE ARCHITECTURAL DRAWING FOR THE FINAL POSITIONS
- SOCKET OUTLETS AND COMMUNICATIONS OUTLETS SHALL BE MOUNTED AT 300MM ABOVE FINISHED FLOOR LEVEL OR 150MM ABOVE BENCH LEVEL UNLESS NOTED OTHERWISE
- LABEL ALL SOCKET OUTLETS WITH THE DISTRIBUTION BOARD NUMBER AND CIRCUIT BREAKER NUMBER
- FIRE RATED WALL BOXES AND SEALANT SHALL BE INSTALLED FOR SOCKET OUTLETS AND COMMUNICATIONS OUTLETS IN COMMON WALLS BETWEEN BEDROOMS AND IN FIRE RATED AND ACOUSTIC RATED WALLS
- SEPARATION OF ELECTRICAL AND COMMUNICATIONS OUTLETS SHALL BE MAINTAINED IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA.
- OBTAIN FINAL EQUIPMENT LOCATIONS AND RATINGS OF OTHER SERVICES EQUIPMENT AND PANELS PRIOR TO INSTALLATION OF THEIR POWER SUPPLIES
- SUPPLY AND INSTALL LOCAL ISOLATORS OR SOCKET OUTLETS FOR THE HYDRAULIC AND MECHANICAL SERVICES EQUIPMENT INDICATED. EXACT LOCATION AND RATING OF THEISOLATORS OR SOCKET OUTLETS SHALL BE VERIFIED ON SITE AND CONFIRMED IN WRITING WITH THE HYDRAULIC OR MECHANICAL SERVICES TRADE RESPECTIVELY PRIOR TO INSTALLATION.
- ALL CLEANERS OUTLETS TO BE ON A SEPARATE CIRCUIT.
- CONTRACTOR SHALL REFER TO ARCHITECT'S JOINERY DETAILS DRAWINGS FOR THE OUTLETS SETOUT POSITION FOR INSTALLATION.

B		DETAILED DESIGN	DU	AZ	GM	22.04.26
A		PRELIMINARY ISSUE	DU	AZ	GM	27.03.26
REV.		DESCRIPTION	GRN	RE	PL	DATE

DRAWING CHECK		CO-ORDINATION CHECK	
SIGNATURE	DATE	SIGNATURE	DATE
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DESIGNED		MECH.	
CHECKED		ELECT.	
		HYDRO/CIVIL	
		FIRE/ENV.	

CLIENT	
kennedy associates architects with TERROIR	
E mail@kennedyassociates.com.au	E sydney@terroir.com.au
W www.kennedyassociates.com.au	W www.terroir.com.au
P +61 2 9557 6466	P +61 2 9696 2198
Level 3, 1 Booth Street	Level 2/79 Myrtle St,
Armadale NSW 2038	Chippendale NSW 2008



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ACN 117 492 814

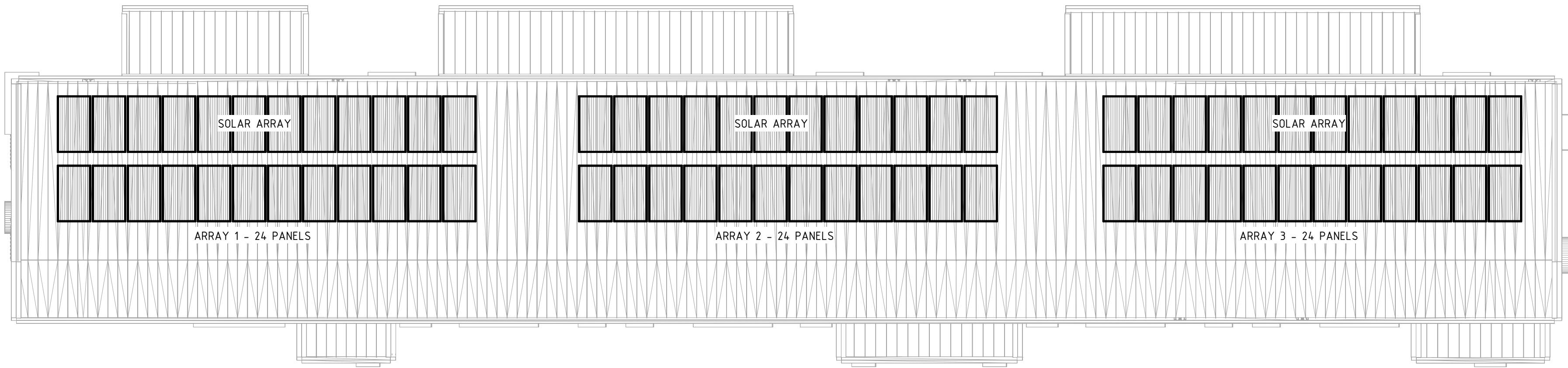
PROJECT	PCLI - HENLEY
	6 CROWN CLOSE, HENLEY, NSW
	2111

TITLE	ELECTRICAL SERVICES
	LEVEL 1 - POWER &
	COMMUNICATIONS LAYOUT

2000	0	2000	4000	6000	A1
STATUS					
PRELIMINARY ISSUE					
NOT TO BE USED FOR CONSTRUCTION					
SCALE @ A1	DIMENSIONS IN				MILLIMETRES
DRAWING No.	5511.008-1 - E301				REV. B

REFERENCE NOTES

1 - NOTE 1



ROOF - POWER & COMMUNICATIONS LAYOUT

SCALE: 1 : 100

GENERAL NOTES - PV SYSTEM

- ROOF AREAS HAVE BEEN NOMINALLY ALLOCATED FOR PV INSTALLATION. FINAL EXTENT OF PV ARRAY TO BE MAXIMISED SUBJECT TO ROOF LAYOUT, SERVICES COORDINATION, AND STRUCTURAL CAPACITY.
- INDICATIVE NUMBER OF PV MODULES SHOWN. FINAL QUANTITY TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- INDICATIVE MODULE RATING ASSUMED. FINAL MODULE TYPE, SIZE AND RATING TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- PV MODULES TO BE ORIENTED TO MAXIMISE SOLAR EXPOSURE, GENERALLY NORTH-FACING WHERE PRACTICABLE.
- NOMINAL TILT ANGLE TO BE OPTIMISED BASED ON ROOF GEOMETRY AND SYSTEM PERFORMANCE REQUIREMENTS.
- FINAL PANEL LAYOUT, STRING CONFIGURATION AND INVERTER SELECTION TO BE CONFIRMED AT DETAILED DESIGN STAGE.
- STRUCTURAL ENGINEER TO CONFIRM ROOF LOAD CAPACITY AND SUITABILITY FOR PV INSTALLATION.
- PV SYSTEM TO COMPLY WITH AS/NZS 3000, AS/NZS 5033, AS/NZS 4777 AND ALL RELEVANT AUTHORITY REQUIREMENTS.

										DRAWING CHECK SIGNATURE DATE DRAWN DESIGNED CHECKED				CO-ORDINATION CHECK SIGNATURE DATE STRUCT. MECH. ELECT. HYDRO/CIVIL FIRE/ENV.				CLIENT kennedy associates architects with TERROIR E mail@kennedyassociates.com.au W www.kennedyassociates.com.au P +61 2 9557 6466 E sydney@terroir.com.au W www.terroir.com.au P +61 2 9696 2198 Level 3, 1 Booth Street Amenade NSW 2038 Level 2/79 Myrtle St. Chippendale NSW 2008 1800 00 COVA covathinking.com ACN 117 492 814				PROJECT PCLI - HENLEY 6 CROWN CLOSE, HENLEY, NSW 2111				TITLE ELECTRICAL SERVICES ROOF - POWER & COMMUNICATIONS LAYOUT				20000200040006000 A1 STATUS PRELIMINARY ISSUE NOT TO BE USED FOR CONSTRUCTION SCALE @ A1 DIMENSIONS IN MILLIMETRES DRAWING No. 5511.008-1-E302 REV. B			
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