

ADADRA

Building Services Group

ABN: 98 951 924 766

Albury

558 Hume Street, Albury NSW 2640

Ph: 02 60214580

Darwin

Suite 4, 60 Winnellie Road, Winnellie NT 0821

Ph: 08 89844246

BUILDING SERVICES CONSULTING ENGINEERING GROUP

☐ MECHANICAL

☒ ELECTRICAL

☐ HYDRAULIC

☐ FIRE

☐ OTHER

B

S

G

PROPOSED HUDSON BUILDING VICTORY LUTHERAN COLLEGE ELECTRICAL SERVICES

SYMBOLS LEGEND

LIGHTING

F1

32W 4000K LED ARRAY
SUSPENDED AT 2900 AFFL
IP40 RATED
ENERGETIC DESTINY PLUS V 221002

O1

30W 4000K LED ARRAY
RECESSED DOWNLIGHT
IP64
SAL LIGHTING, S9075TC DP 23W/30W

O2

9W 4000K LED ARRAY
RECESSED DOWNLIGHT
IP64 RATED
SAL LIGHTING S9071TC WH

H1

100W 4000K LED HIGH BAY
SUSPENDED 600mm FROM CEILING
120 DEGREE LENS
VORTEX HCL-100-CW

BEACON LIGHTING CEILING FAN
RESORT 80 DC FAN WITH LUCI FAN EXT ROD - BLACK

FAN CONTROLLER
TO SUIT DC FAN

S1-2 2 1000

GANG LIGHT SWITCH
CLIPSAL PRO SERIES
ALL OUTLETS LOCATED ON PLY WOOD WALLS TO BE BLACK.
COORDINATE QUANTITIES PRIOR TO ORDERING.
MOUNTING HEIGHT, MOUNT AT 1000 AFFL UNLESS SHOWN OTHERWISE
DENOTES DIMMABLE SWITCH
2W-TWO WAY
SWITCHING CIRCUIT IDENTIFIER

PIR MOTION DETECTOR (2 CHANNEL)
PIERLITE SMARTSCANZ

L1

CIRCUIT IDENTIFIER

L1

POWER

ALL OUTLETS LOCATED ON PLY WOOD WALLS TO BE BLACK.
COORDINATE QUANTITIES PRIOR TO ORDERING.

300 P3

1 x 10 AMP SINGLE PHASE G.P.O.
CLIPSAL PRO SERIES
MOUNTING HEIGHT, MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE
CIRCUIT IDENTIFIER

300 P3

2 x 10 AMP SINGLE PHASE G.P.O.
CLIPSAL PRO SERIES
MOUNTING HEIGHT, MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE
CIRCUIT IDENTIFIER

300 P3 15A

1 x 15 AMP SINGLE PHASE G.P.O.
CLIPSAL PRO SERIES
MOUNTING HEIGHT, MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE
CIRCUIT IDENTIFIER
15A CURRENT

2200 P3 WP

2 x 10 AMP SINGLE PHASE G.P.O.
CLIPSAL WSC SERIES
MOUNTING HEIGHT, MOUNT AT 1000 AGL UNLESS NOTED OTHERWISE
CIRCUIT IDENTIFIER
OUTLET TYPE IDENTIFIER

300 P3

2 x 10 AMP SINGLE PHASE G.P.O.
CLIPSAL PRO SERIES + 1 x USB C & 1 x USB A
MOUNTING HEIGHT, MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE
CIRCUIT IDENTIFIER

PX Ø 900 16A

1 PHASE ISOLATOR
RATING & PURPOSE AS NOTED
CLIPSAL WH SERIES
MOUNTING HEIGHT, MOUNT AT SUITABLE HEIGHT TO BE DETERMINED ON SITE
RATED CURRENT, RATED AT 16A UNLESS NOTED OTHERWISE
POWER CIRCUIT IDENTIFIER

PS4 Ø 32A

THREE PHASE ISOLATOR
RATING & PURPOSE AS NOTED
CLIPSAL WH SERIES
RATED CURRENT, RATED AT 20A UNLESS NOTED OTHERWISE
POWER CIRCUIT IDENTIFIER

DB

DISTRIBUTION BOARD

DB

CMS ELECTRACOM FLOOR BOX
FLOOR BOX TO CONTAIN:
- 2 OFF DOUBLE GPOS
- 1 OFF DOUBLE DATA
CONTRACTOR TO INSTALL ASSOCIATED CONDUITS TO
NEAREST WALL CAVITY.

1P40

ELECTRICAL UNDERGROUND CONDUIT

SIZE (mm)

TYPE (P-POWER HDPVC)

QUANTITY

1C40

ELECTRICAL UNDERGROUND CONDUIT

SIZE (mm)

TYPE (C-COMMS HDPVC)

QUANTITY

ENERGY MONITORING

COMMS

ENERGY METER
EN270/EN2800N

ENERGY METERS ARE TO BE CONFIGURED TO
ENABLE INDIVIDUAL TIME-OF-USE ENERGY
CONSUMPTION DATA RECORDING ALL METERS ARE
TO BE INTERLINKED VIA A NHP UWIP3.0 TO NHP
CLOUD BASED ENERGY MONITORING SOFTWARE TO
RECORD AND DISPLAY ENERGY USAGE.

COMMUNICATIONS

300 7

DATA OUTLET RJ45 CAT 6A SOCKET MECHANISMS
CLIPSAL PRO SERIES
MOUNTING HEIGHT, MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE
INDICATES NO. MECHANISMS PER PLATE

☒

COMMUNICATIONS CABINET

PA

PA AMPLIFIER 120WATT - AUSTRALIAN MONITOR ES-120.
PA AMPLIFIER 60WATT - AUSTRALIAN MONITOR ES- 60.
DIR1222A MCLELLAND AUDIO DANTE RECEIVER.
WATT SPEAKER.

PA

PUBLIC ADDRESS SPEAKER
COORDINATE SOUND LEVEL SWITCHES SET TO LOW WITH
GENERIC 100V LINE, 5-10WATT SPEAKER, OR AUSTRALIAN
MONITOR QF6CS 10-WATT SPEAKER.

PA

SURFACE MOUNTED HORN SPEAKER
10A-SC-615M 100V HORN SPEAKER 15 WATT

EMERGENCY ESCAPE LIGHTING

SUPPLY, INSTALL AND CONNECT EMERGENCY ESCAPE LIGHTING IN
ACCORDANCE WITH AS/NZS2293.1:2018. PROVIDE AN EMERGENCY
ESCAPE LIGHTING OPERATION & MAINTENANCE MANUAL COMPLETE WITH
DETAILS OF THE INSTALLATION AND INITIAL TEST RESULTS.

EXIT

LED MAINTAINED EXIT LIGHT
WALL OR CEILING MOUNT
LITHIUM IRON PHOSPHATE BATTERY & CLEVERTEST PLUS
C0-D2.5 / C90-E2
CLEVERTRONICS CCFLED

EXIT

LED NON-MAINTAINED EMERGENCY LIGHT
RECESSED CEILING MOUNT
LITHIUM IRON PHOSPHATE BATTERY & CLEVERTEST PLUS
C0-D40 / C90-D40
CLEVERTRONICS LP LIFELIGHT PART NUMBER: CLFE

EXIT

LED NON-MAINTAINED EMERGENCY LIGHT
RECESSED CEILING MOUNT
LITHIUM IRON PHOSPHATE BATTERY & CLEVERTEST PLUS
C0-D40 / C90-D40
CLEVERTRONICS LP LIFELIGHT PART NUMBER: CLFE-5M

W1

LED MAINTAINED EMERGENCY LIGHT
SURFACE MOUNTED AT 2400 ABOVE LANDINGS
LITHIUM IRON PHOSPHATE BATTERY & CLEVERTEST PLUS
C0-D40 / C90-D125
CLEVERTRONICS ARGOWALL-DD-LP

SECURITY

SCHOOL EXISTING SECURITY CONTRACTOR TO BE ENGAGED
TO INSTALL NEW SECURITY SYSTEM TO SCHOOL.

☒

CARD READER

☒

PIR INTRUSION DETECTOR

☒

SMOKE DETECTOR

DRAWING INDEX

BSG1069-E000 LEGEND & DRAWING INDEX
BSG1069-E001 SCHEMATICS
BSG1069-E100 SITE PLAN
BSG1069-E200 POWER & COMMUNICATIONS
BSG1069-E300 LIGHTING & ASSOCIATED SERVICES

SPECIFICATION & CERTIFICATION

THE SPECIFICATION MUST BE READ PRIOR TO COMMENCING WORK. IT DETAILS THE QUALITY THAT MUST BE ADHERED TO
THROUGHOUT THIS PROJECT.

EACH TENDERER SHALL VISIT THE SITE TO ACQUAINT THEMSELVES WITH THE EXISTING CONDITIONS INCLUDING THOSE OF ACCESS,
SAFETY FOR EMPLOYEES, BUILDING OCCUPANTS AND PUBLIC, NATURE OF THE WORK AND ASCERTAIN THE FULL SCOPE OF THE
WORK. COMMENCEMENT OF WORK SHALL IMPLY THAT THE CONTRACTOR IS FULLY SATISFIED WITH THEIR KNOWLEDGE OF ALL
CONDITIONS OF THE WORK. NO CLAIM FOR ADDITIONAL COSTS DUE TO LACK OF KNOWLEDGE OF THESE CONDITIONS WILL BE
ENTERAINED NOR SHALL BE DEEMED TO BE A REASON FOR EXTENSION OF TIME.

THESE DOCUMENTS HAVE BEEN PREPARED TO COMPLY WITH NATIONAL CONSTRUCTION CODE 2022 PART J7 'ARTIFICIAL LIGHTING
AND POWER' AND PART J9 'ACCESS FOR MAINTENANCE AND FACILITIES FOR MONITORING'. THE ELECTRICAL CONTRACTOR WILL BE
REQUIRED TO CERTIFY THAT THE INSTALLATION HAS BEEN COMPLETED IN COMPLIANCE WITH PART J7 AND PART J9.

INTERPRETATION

1. DRAWINGS SHOWING EQUIPMENT LAYOUTS ARE DIAGRAMMATIC ONLY.

2. BEFORE COMMENCING WORK, DETERMINE THE EXACT POSITIONS OF THE EQUIPMENT AND ACCESSORIES IN CONJUNCTION
WITH THE PROJECT MANAGER, HAVING REGARD TO BUILDING FEATURES, OTHER SERVICES, AND THE REQUIREMENTS OF
THE REGULATORY AUTHORITIES.

3. THE FOLLOWING DESCRIBES SOME COMMON ABBREVIATIONS USED ON THESE DRAWINGS AND THE ELECTRICAL
SPECIFICATION:

AB

ABOVE BENCH. TO BE MOUNTED 150 ABOVE BENCH HEIGHT UNLESS NOTED OTHERWISE

AFFL

ABOVE FINISHED FLOOR LEVEL

BWU

BOILING WATER UNIT. COORDINATE EXACT LOCATION ON SITE.

CC

COMMUNICATIONS CABINET

CM

CEILING MOUNT

CU

CONDENSER UNIT. COORDINATE LOCATION WITH MECHANICAL SERVICES CONTRACTOR

DW

DISHWASHER. COORDINATE WITH JOINERY.

F

FRIDGE/ FREEZER. GPO TO BE MOUNTED AT 1800 AFFL UNLESS NOTES OTHERWISE.

FCU

FAN COIL UNIT. COORDINATE LOCATION WITH MECHANICAL SERVICES CONTRACTOR.

GPO

LOW VOLTAGE GENERAL PURPOSE OUTLET. MOUNT AT 300 AFFL UNLESS NOTED OTHERWISE

HWS

HOT WATER SERVICE. COORDINATE WITH PLUMBER.

ITP

INSPECTION AND TEST PROCEDURE

SEC

DEDICATED SECURITY SYSTEM OUTLET. CONFIRM LOCATION WITH SECURITY CONTRACTOR.

TBC

TO BE CONFIRMED

UB

UNDER BENCH

WP

WEATHER PROOF

15A

15A OUTLET

900

MOUNTING HEIGHT AFFL IN MILLIMETRES

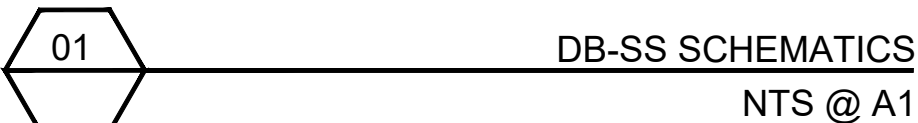
STANDARDS

ALL WORK SHALL COMPLY WITH THE FOLLOWING STANDARDS AND CODES;

- AS 2293:2018 EMERGENCY EVACUATION LIGHTING FOR BUILDINGS (PARTS AS APPLICABLE)
- AS/NZS 3000:2018 WIRING RULES
- AS/NZS 3008.1.1:2017 ELECTRICAL INSTALLATIONS-SELECTION OF CABLES.
- AS/NZS 3080:2003 TELECOMMUNICATIONS INSTALLATIONS-GENERIC CABLING
- THE LATEST ISSUE OF OTHER RELEVANT AUSTRALIAN STANDARDS AND OTHER STANDARDS AS APPLICABLE.
- THE LATEST ISSUE OF THE LOCAL SUPPLY AUTHORITY SERVICE AND INSTALLATION RULES.

T2	TENDER ISSUE	23-05-2025	S.G.
T1	TENDER ISSUE	03-04-2025	S.G.
P1	PRELIMINARY ISSUE	28-01-2025	S.G.
REV.	REVISION DESCRIPTION	DATE	CHANGE NOTE
ADADRA Building Services Group ABN: 98 951 924 766 Albury 558 Hume Street, Albury NSW 2640 Ph: 02 60214580 Darwin Suite 4, 60 Winnellie Road, Winnellie NT 0821 Ph: 08 89844246 BUILDING SERVICES CONSULTING ENGINEERING GROUP ☐ MECHANICAL ☒ ELECTRICAL ☐ HYDRAULIC ☐ FIRE ☐ OTHER			
Client ROB PICKETT DESIGN			
Project PROPOSED HUDSON BUILDING VICTORY LUTHERAN COLLEGE			
Title ELECTRICAL SERVICES LEGEND & DRAWING INDEX			
Drawn S.G.	Date 20-01-2025	Co-ordinated	Date
Checked S.G.	Date 23-05-2025	Approved S.G.	Date 23-05-2025
Scale NTS @ A1	Plotted Date 23-05-2025		
Drawing Number BSG1069-E000			Revision T2

TENDER ISSUE
NOT FOR CONSTRUCTION



K-INT NO. OF POLES TO SUIT CIRCUIT ARRANGEMENT (DB-55)

SECURITY INTERFACE OR PART IT COMPLIANT TIME CLOCK

A

K-INT

B

ACTIVE

PE CELL

CH1

CH2

TIMECLOCK

KXX

KXX

KXX

MAINTENANCE SWITCH

24HR/7 DAY TIMECLOCK 2 CHANNEL

KXX TO CONTROL EXTERIOR LIGHTING (DB-55)

FROM EXISTING COMMUNICATIONS CABINET.
LOCATION TO BE DETERMINED BY SCHOOLS
IT DEPARTMENT

TO BE DETERMINED BY
SCHOOLS IT DEPARTMENT

CABINET - 0

SECURITY

4-PAIR
CAT 6A

4-PAIR
CAT 6

DATA, QUANTITY AS
SHOWN ON DRAWINGS

42RU COMMUNICATIONS CABINET (800W x 1200D) TO CONTAIN:

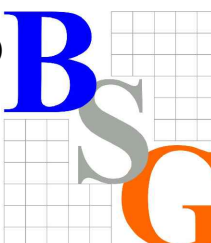
- 12 PORT PDU (CONNECT TO DEDICATED GPO)
- 48 WAY FIBER
- 24-PORT PATCH PANELS TO SUIT,
- VERTICAL CABLE MANAGEMENT

TENDER ISSUE
NOT FOR CONSTRUCTION

1. THE DB MUST BE CONSTRUCTED TO THE FOLLOWING CRITERIA:
 - MATERIAL - 1.6mm MILD STEEL
 - FINISH - CHARCOAL/GREY POWDERCOAT
 - CONSTRUCTION - FORM AS 61439
 - PROTECTION - IP52 (INDOOR)/ IP56 (OUTDOOR)
 - A4 LEG HOLDER
 - CLOUT KEYED LOCKABLE DOOR HANDLE
 - REMOVABLE GLAND PLATES
2. MINIMATURE AND MOULDED CASE CIRCUIT BREAKERS MUST BE OF APPROVED MANUFACTURE. NHP, SCHNEIDER OR APPROVED EQUIVALENT.
3. THE CIRCUIT BREAKER MANUFACTURER OFFERED FOR USE MUST BE CONSISTENT THROUGHOUT THE ENTIRE INSTALLATION.
4. WHERE FAULT LEVELS EXCEED THAT OF THE RELEVANT CIRCUIT BREAKER CURRENT LIMITING FUSES SHALL BE USED TO PROVIDE BACK UP PROTECTION.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE SHOP DRAWINGS OF THE DISTRIBUTION BOARD. DRAWINGS SHALL INCLUDE ELEVATIONS, SECTIONS, SCHEMATIC DIAGRAMS AND EQUIPMENT LISTS. DRAWINGS SHALL BE PRODUCED USING COMPUTER AIDED DRAFTING SOFTWARE.
6. THE INSTALLATION SHALL BE WARRANTED FOR A FULL 12 MONTH DEFECT LIABILITY PERIOD. ANY EQUIPMENT REPLACED DURING THIS 12 MONTH DEFECT LIABILITY PERIOD SHALL BE SUBJECT TO A FURTHER 12 MONTH DEFECT LIABILITY PERIOD FROM THE TIME OF INSTALLATION.
7. ALL WORK SHALL COMPLY WITH AS/NZS3000:2018, LOCAL SUPPLY AUTHORITY SERVICE AND INSTALLATION RULES AND ANY OTHER APPLICABLE STANDARDS.

T2	TENDER ISSUE	23-05-2025	S.G.
T1	TENDER ISSUE	03-04-2025	S.G.
P1	PRELIMINARY ISSUE	28-01-2025	S.G.
REV.	REVISION DESCRIPTION	DATE	CHANGE NOTE

ADADRA
Building Services Group
 ABN 79 951 924 766
 Albury
 558 Hume Street, Albury NSW 2640
 Ph: 02 60214580
 Darwin
 Suite 4, 60 Winnellie Road, Winnellie NT 0821
 Ph: 08 89844246



BUILDING SERVICES CONSULTING ENGINEERING GROUP
☐ MECHANICAL ☒ ELECTRICAL ☐ HYDRAULIC ☐ FIRE ☐ OTHER

Client

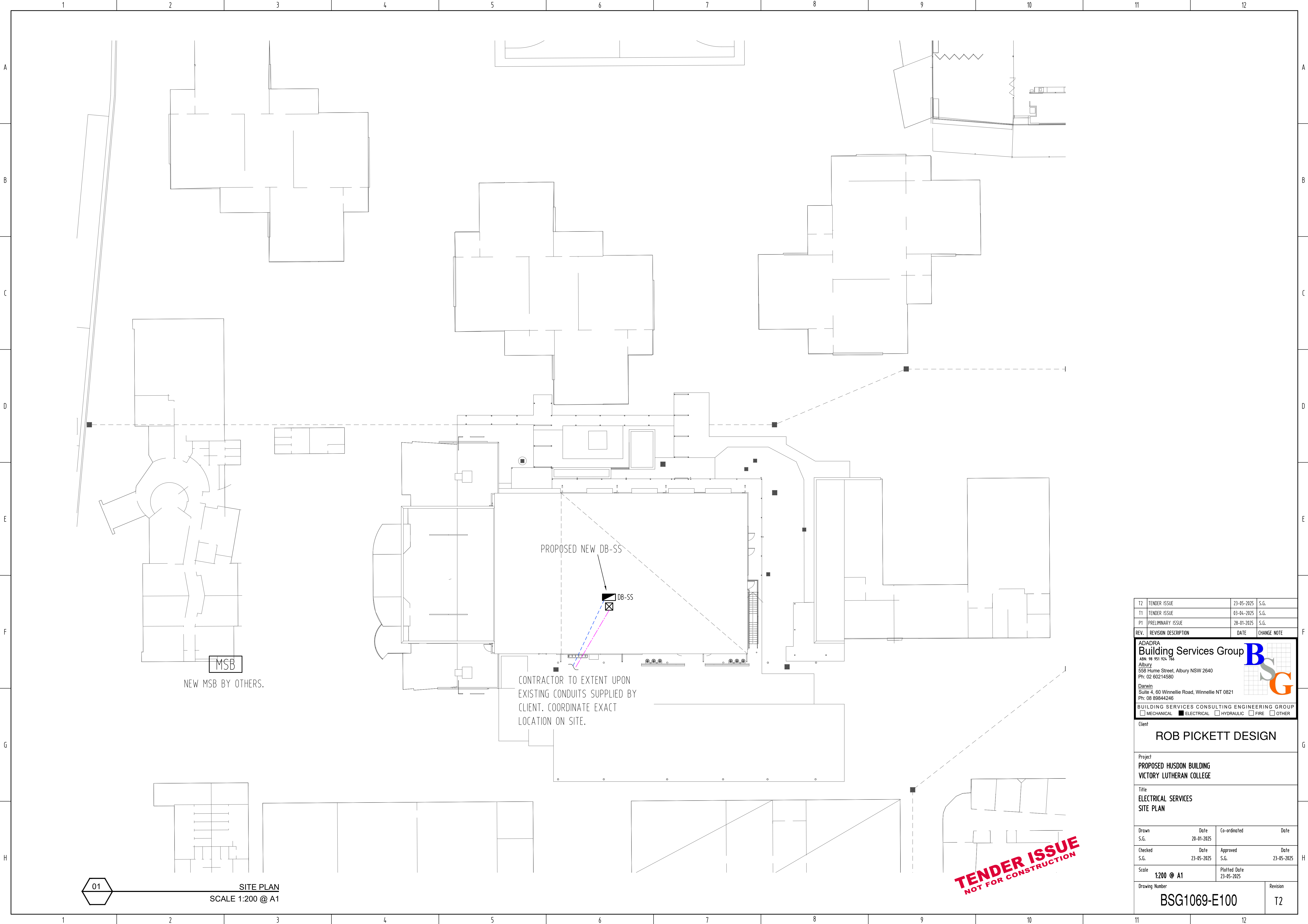
ROD PICKETT DESIGN

Project
PROPOSED HUDSON BUILDING
VICTORY LUTHERAN COLLEGE

Title
ELECTRICAL SERVICES
SCHEMATICS

Drawing	Date	Co-ordinated	Date
	20-01-2025		
Checked	Date	Approved	Date
S.G.	23-05-2025	S.G.	23-05-2025
Scale	Plotted Date		
NTS @ A1	23-05-2025		

Drawing Number	Revision
BSG1069-E001	T2



T2	TENDER ISSUE	23-05-2025	S.G.
T1	TENDER ISSUE	03-04-2025	S.G.
P1	PRELIMINARY ISSUE	28-01-2025	S.G.
REV.	REVISION DESCRIPTION	DATE	CHANGE NOTE

ADADRA
Building Services Group
ABN: 98 951 924 766
Albury
558 Hume Street, Albury NSW 2640
Ph: 02 60214580
Darwin
Suite 4, 60 Winnellie Road, Winnellie NT 0821
Ph: 08 89844246

B
S
G

BUILDING SERVICES CONSULTING ENGINEERING GROUP
☐ MECHANICAL ☒ ELECTRICAL ☐ HYDRAULIC ☐ FIRE ☐ OTHER

Client
ROB PICKETT DESIGN

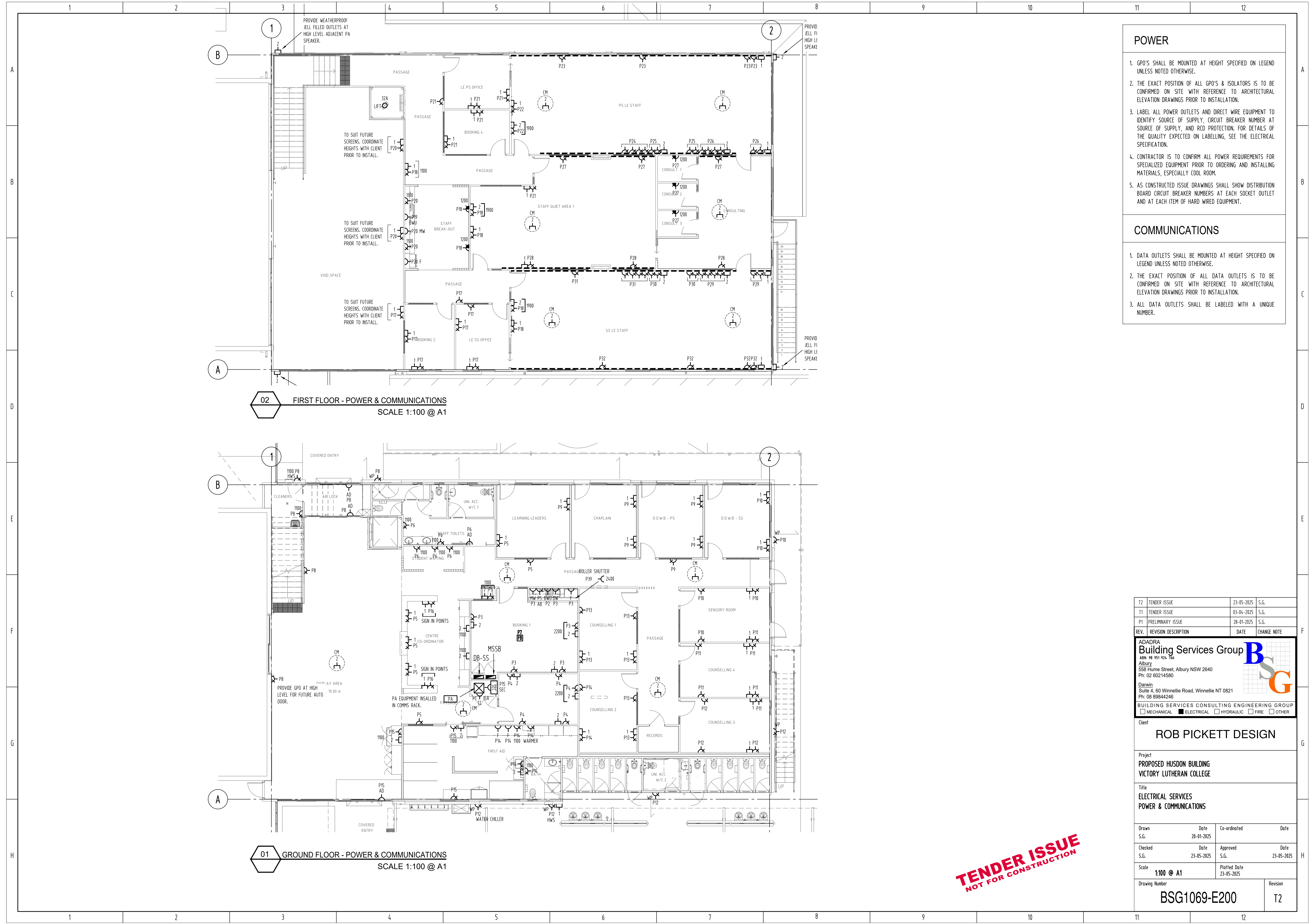
Project
**PROPOSED HUDSON BUILDING
VICTORY LUTHERAN COLLEGE**

Title
**ELECTRICAL SERVICES
SITE PLAN**

Drawn S.G.	Date 20-01-2025	Co-ordinated	Date
Checked S.G.	Date 23-05-2025	Approved S.G.	Date 23-05-2025

Scale 1:200 @ A1	Plotted Date 23-05-2025
----------------------------	----------------------------

Drawing Number BSG1069-E100	Revision T2
---------------------------------------	-----------------------



- POWER**
 - GPO'S SHALL BE MOUNTED AT HEIGHT SPECIFIED ON LEGEND UNLESS NOTED OTHERWISE.
 - THE EXACT POSITION OF ALL GPO'S & ISOLATORS IS TO BE CONFIRMED ON SITE WITH REFERENCE TO ARCHITECTURAL ELEVATION DRAWINGS PRIOR TO INSTALLATION.
 - LABEL ALL POWER OUTLETS AND DIRECT WIRE EQUIPMENT TO IDENTIFY SOURCE OF SUPPLY, CIRCUIT BREAKER NUMBER AT SOURCE OF SUPPLY, AND RCD PROTECTION. FOR DETAILS OF THE QUALITY EXPECTED ON LABELLING, SEE THE ELECTRICAL SPECIFICATION.
 - CONTRACTOR IS TO CONFIRM ALL POWER REQUIREMENTS FOR SPECIALIZED EQUIPMENT PRIOR TO ORDERING AND INSTALLING MATERIALS, ESPECIALLY COOL ROOM.
 - AS CONSTRUCTED ISSUE DRAWINGS SHALL SHOW DISTRIBUTION BOARD CIRCUIT BREAKER NUMBERS AT EACH SOCKET OUTLET AND AT EACH ITEM OF HARD WIRED EQUIPMENT.
- COMMUNICATIONS**
 - DATA OUTLETS SHALL BE MOUNTED AT HEIGHT SPECIFIED ON LEGEND UNLESS NOTED OTHERWISE.
 - THE EXACT POSITION OF ALL DATA OUTLETS IS TO BE CONFIRMED ON SITE WITH REFERENCE TO ARCHITECTURAL ELEVATION DRAWINGS PRIOR TO INSTALLATION.
 - ALL DATA OUTLETS SHALL BE LABELED WITH A UNIQUE NUMBER.

T2	TENDER ISSUE	23-05-2025	S.G.
T1	TENDER ISSUE	03-04-2025	S.G.
P1	PRELIMINARY ISSUE	28-01-2025	S.G.
REV.	REVISION DESCRIPTION	DATE	CHANGE NOTE
ADADRA Building Services Group ABN: 98 951 924 766 Albury 558 Hume Street, Albury NSW 2640 Ph: 02 60214580 Darwin Suite 4, 60 Winnellie Road, Winnellie NT 0821 Ph: 08 89844246 BUILDING SERVICES CONSULTING ENGINEERING GROUP ☐ MECHANICAL ☒ ELECTRICAL ☐ HYDRAULIC ☐ FIRE ☐ OTHER			
Client			
ROB PICKETT DESIGN			
Project			
PROPOSED HUDSON BUILDING VICTORY LUTHERAN COLLEGE			
Title			
ELECTRICAL SERVICES POWER & COMMUNICATIONS			
Drawn	Date	Co-ordinated	Date
S.G.	20-01-2025		
Checked	Date	Approved	Date
S.G.	23-05-2025	S.G.	23-05-2025
Scale	1:100 @ A1		Plotted Date
			23-05-2025
Drawing Number			Revision
BSG1069-E200			T2

