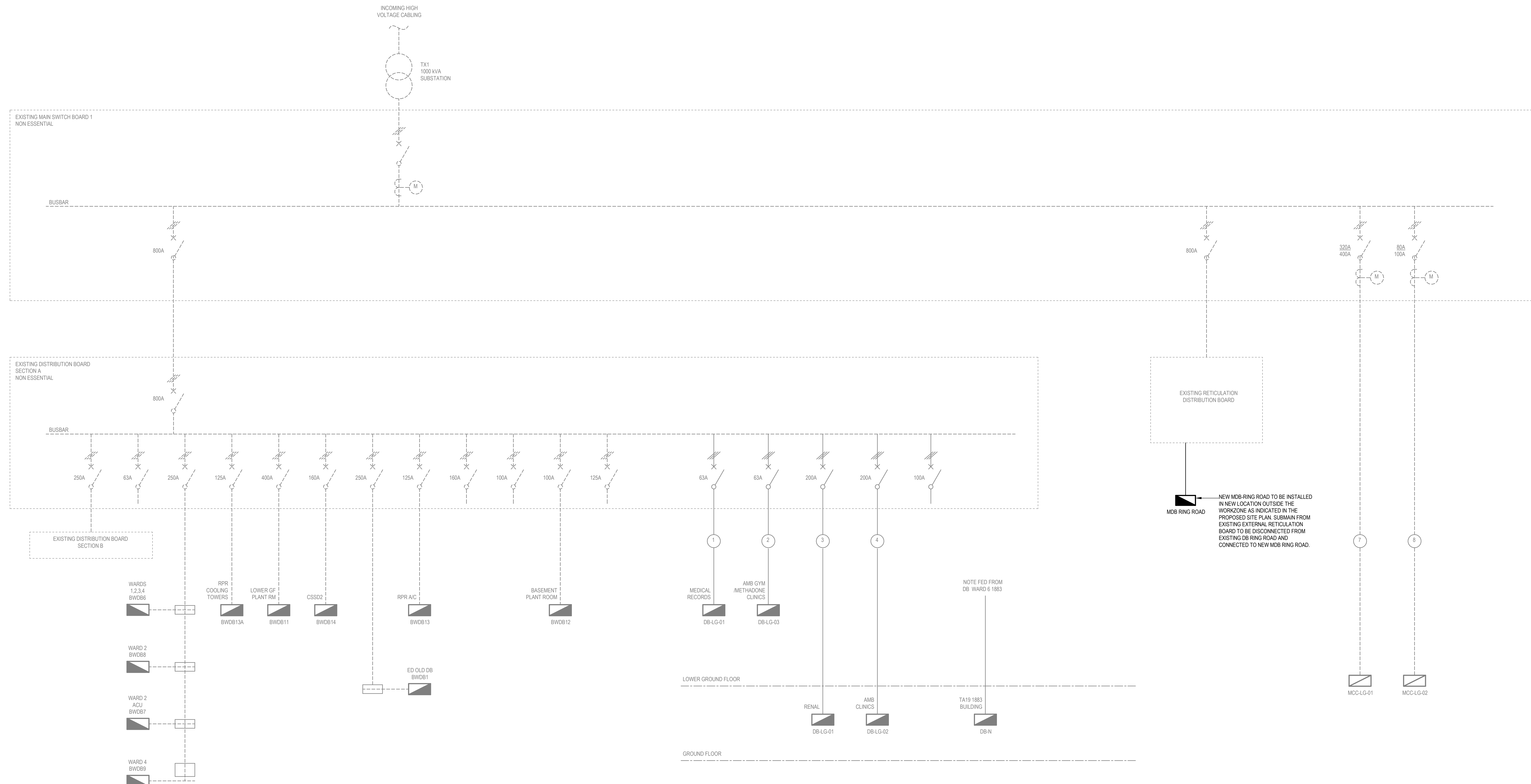


A2B-WSP-DRW-ELE-E10-000	COVER PAGE AND DRAWING INDEX
A2B-WSP-DRW-ELE-E10-001	LEGEND OF SYMBOLS
A2B-WSP-DRW-ELE-E10-010	ELECTRICAL SINGLE LINE DIAGRAM
A2B-WSP-DRW-ELE-E10-011	ICT SCHEMATIC DIAGRAM
A2B-WSP-DRW-ELE-E10-012	ELECTRICAL SINGLE LINE DIAGRAM
A2B-WSP-DRW-ELE-E10-013	NURSE CALL SCHEMATIC
A2B-WSP-DRW-ELE-E10-014	SURGEY SCHEMATIC
A2B-WSP-DRW-ELE-E10-015	INTERFACING SINGLE DIAGRAM
A2B-WSP-DRW-ELE-E10-020	LIGHTING DETAILS
A2B-WSP-DRW-ELE-E10-021	GENERATOR DETAIL
A2B-WSP-DRW-ELE-E10-030	EXISTING SITE PLAN - ELECTRICAL AND ICT SITE WORKS
A2B-WSP-DRW-ELE-E10-031	PROPOSED SITE PLAN - ELECTRICAL AND ICT SHEET 1
A2B-WSP-DRW-ELE-E10-032	PROPOSED SITE PLAN - ELECTRICAL AND ICT SHEET 2
A2B-WSP-DRW-ELE-E10-033	POWER AND SECURITY LAYOUT - CARPARK
A2B-WSP-DRW-ELE-E20-100	POWER AND COMMS LAYOUT - LEVEL 01
A2B-WSP-DRW-ELE-E20-200	POWER AND COMMS LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E20-201	POWER AND COMMS LAYOUT PART 2 - LEVEL 02
A2B-WSP-DRW-ELE-E20-300	POWER AND COMMS LAYOUT - LEVEL 03
A2B-WSP-DRW-ELE-E30-100	LIGHTING LAYOUT - LEVEL 01
A2B-WSP-DRW-ELE-E30-200	LIGHTING LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E30-201	LIGHTING LAYOUT PART 2 - LEVEL 02
A2B-WSP-DRW-ELE-E30-300	LIGHTING LAYOUT - LEVEL 03
A2B-WSP-DRW-ELE-E40-100	SECURITY LAYOUT - LEVEL 01
A2B-WSP-DRW-ELE-E40-200	SECURITY LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E40-201	SECURITY LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E40-300	SECURITY LAYOUT - LEVEL 03
A2B-WSP-DRW-ELE-E50-100	CABLE RETICULATION LAYOUT - LEVEL 01
A2B-WSP-DRW-ELE-E50-200	CABLE RETICULATION LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E50-201	CABLE RETICULATION LAYOUT PART 2 - LEVEL 02
A2B-WSP-DRW-ELE-E50-300	CABLE RETICULATION LAYOUT - LEVEL 03
A2B-WSP-DRW-ELE-E60-100	NURSE CALL LAYOUT - LEVEL 01
A2B-WSP-DRW-ELE-E60-200	NURSE CALL LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E60-201	NURSE CALL LAYOUT PART 1 - LEVEL 02
A2B-WSP-DRW-ELE-E60-300	NURSE CALL LAYOUT - LEVEL 03
A2B-WSP-DRW-ELE-E70-100	GROUND FLOOR - ASB ELECTRICAL SERVICES LAYOUT
A2B-WSP-DRW-ELE-E70-200	LEVEL 2 - ASB ELECTRICAL SERVICES LAYOUT

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NOTES:

1. FOR LEGEND AND SYMBOLS REFER TO DRAW-EE10-001.
2. ALL WORK TO BE DONE IN ACCORDANCE WITH ASINZS 3000.
3. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
4. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWING.
5. ALL RCD'S UNLESS EXPLICITLY SPECIFIED MUST BE TYPE A AS PER ASINZS 3000:2018 AMDT 2 CLAUSE 2.6.2.2.1.
6. THE SWITCHING OF POWER FEED FROM EXISTING BOARD TO NEW BOARD WILL REQUIRE POWER SHUTDOWN PERIOD TO ANBUANCE WORKSHOP AND HELIPAD DB. THE CONTRACTOR SHALL ADVISE OF POWER SHUTDOWN WITH LHD AND SHALL PROCEED ONLY AFTER APPROVAL FROM LHD. IF REQUIRED TEMPORARY GENERATOR SHALL BE PROVIDED FOR HELIPAD DB.



NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	24.02.2023	BM	DRAFT DETAIL DESIGN	OK	DA
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAFT DETAIL DESIGN



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<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT:

TAMWORTH MENTAL HEALTH UNIT

TITLE:

ELECTRICAL SERVICES
ELECTRICAL SINGLE LINE DIAGRAM

SCALE @ A0: NTS	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022

A2B-WSP-DRW-ELE-E10-010

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1. THE CONTRACTOR SHALL INSTALL ADDITIONAL OPTICAL FIBRE BACKBONE CABLES AS INDICATED IN THE SECURITY/CCTV SINGLE LINE DIAGRAM IN ADDITION TO THE COMMUNICATIONS STRUCTURED CABLEING SYSTEM. BACKBONE CABLES ARE INDICATED ON THE DRAWING.
2. FOR ACTUAL QUANTITY OF DATA OUTLETS, CONTRACTOR TO REFER TO THE POWER AND COMMS LAYOUTS, ROOM DATA SHEETS AND ROOM LAYOUT SHEETS.
3. THE FADED ELEMENTS INDICATE EXISTING INSTALLATION.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	24.02.2023	BM	CRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAFT DETAIL DESIGN



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT:

TAMWORTH MENTAL HEALTH UNIT

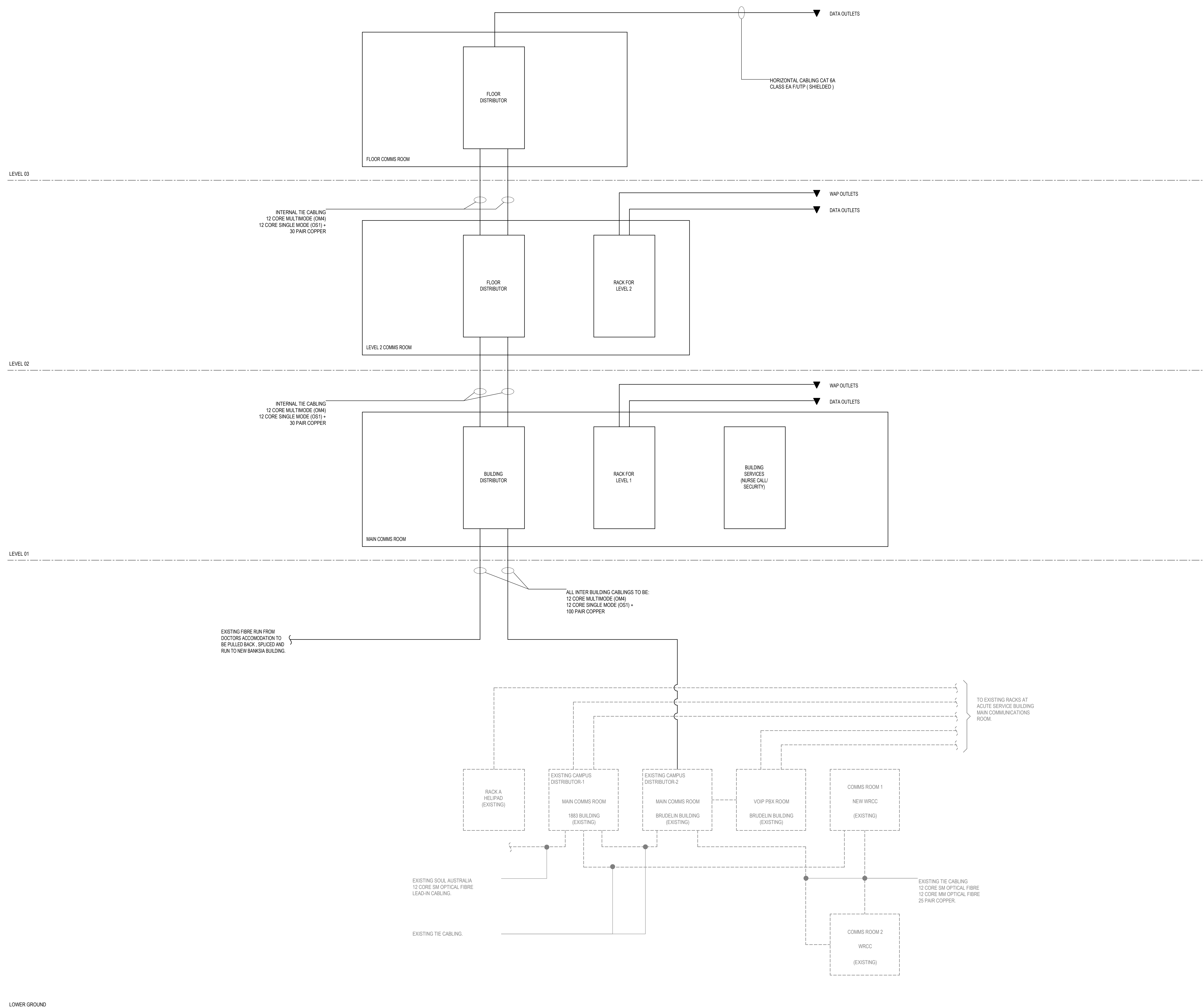
TITLE:

ELECTRICAL SERVICES
ICT SCHEMATIC DIAGRAM

SCALE @ A0: NTS	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022

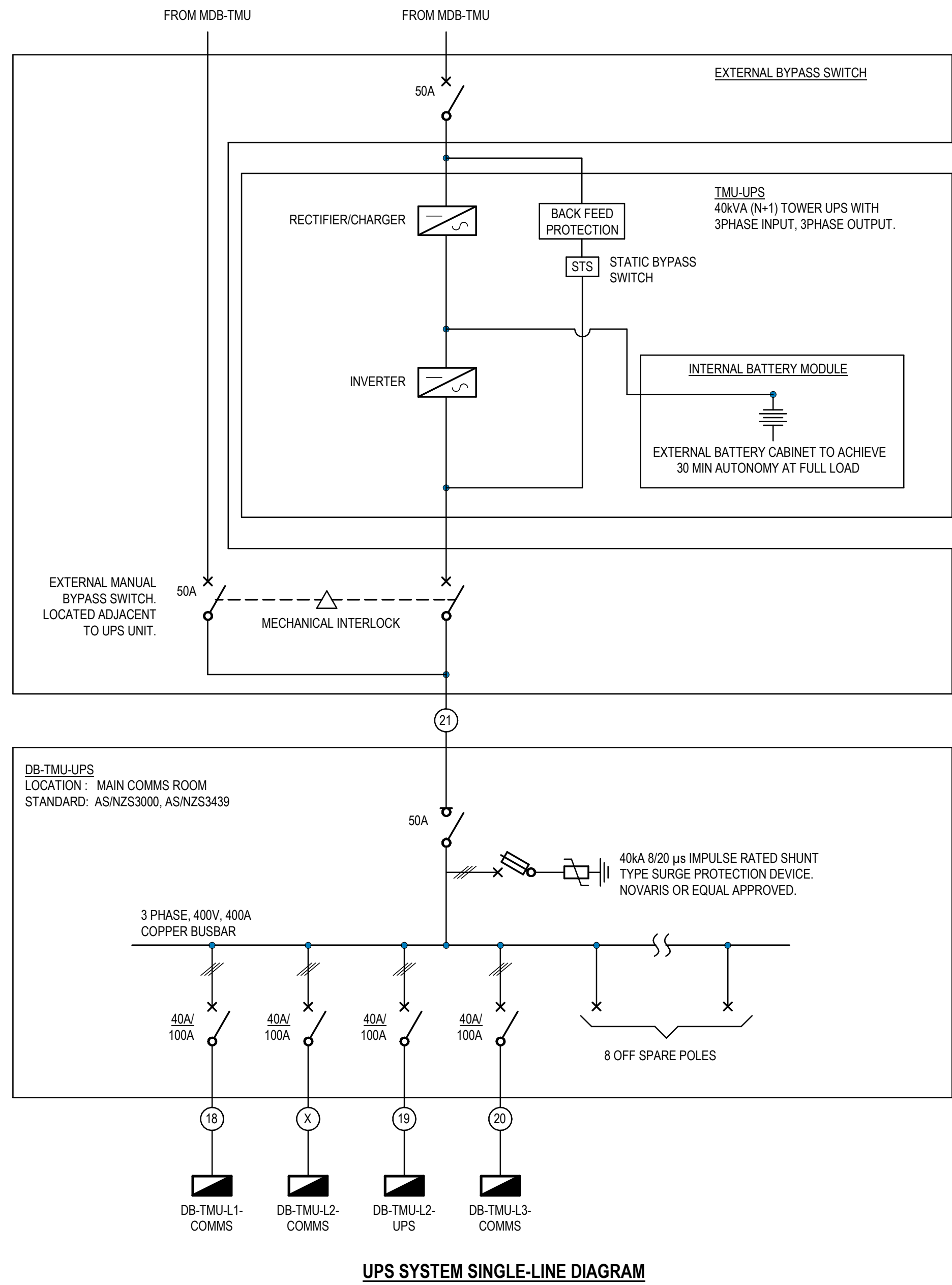
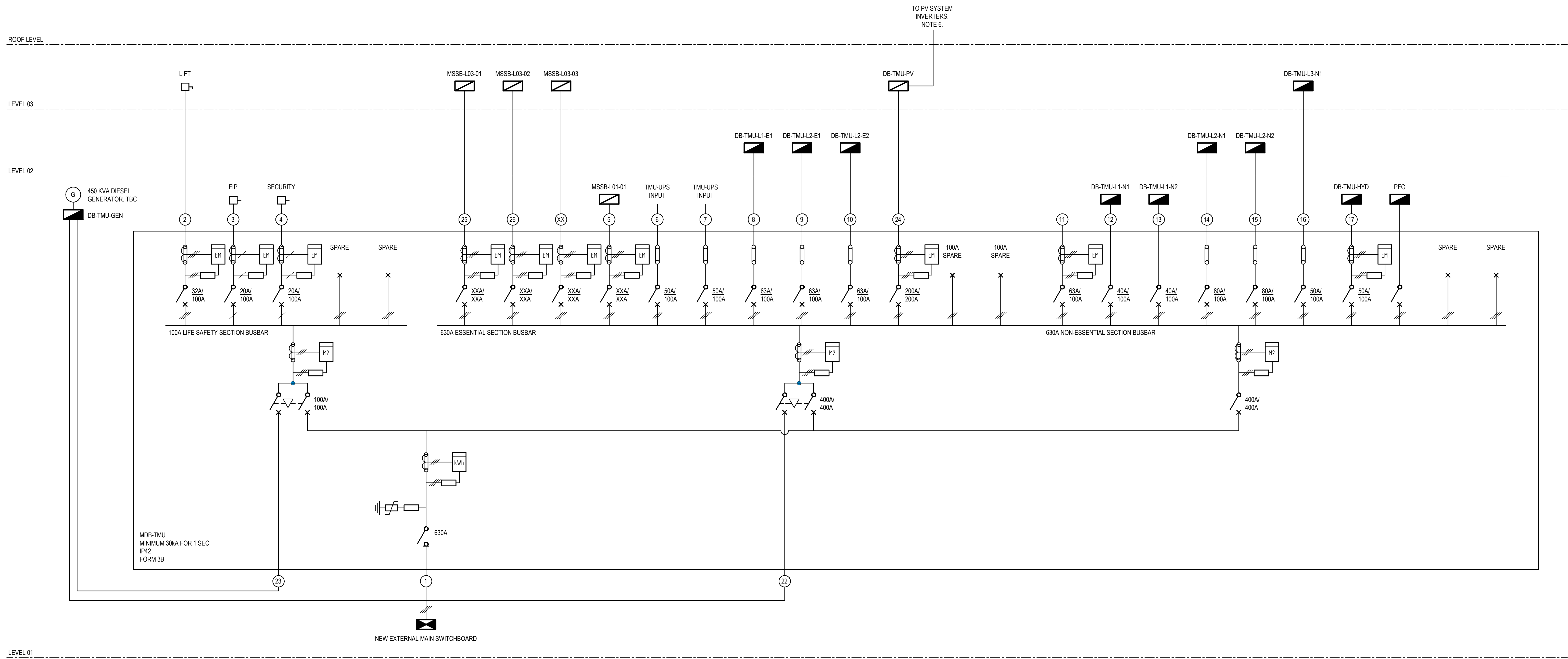
A2B-WSP-DRW-ELE-E10-011

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- ALL BREAKER AND CABLE SIZES ARE TO BE FINALIZED ON NEXT STAGE OF DESIGN.
- ALL SIZES (CIRCUIT BREAKER, CABLES, GENERATOR, ETC.) ARE TO BE FINALIZED ON NEXT DESIGN STAGE.



CABLE SCHEDULE

CABLE REFERENCE	DESCRIPTION	CORES	CABLE SIZE (mm ²)	CONDUCTOR (ACTIVE)	INSULATION	SHEATH	NEUTRAL SIZE (mm ²)	EARTH SIZE (mm ²)
1	MOB-TMU	S.D.I	630	Cu	XLPE 90°C	PVC	630	120
2	LIFT	Circ. 4C&E	10	Cu	RADOX 120°C	RADOX	10	4
3	FIP	Circ. 4C&E	6	Cu	RADOX 120°C	RADOX	6	2.5
4	SEC	Circ. 4C&E	6	Cu	RADOX 120°C	RADOX	6	2.5
5	MSSB-L03-01	TBC	TBC	TBC	TBC	TBC	TBC	TBC
6	TMU-UPS INPUT	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
7	TMU-UPS INPUT	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
8	DB-TMU-L1-E1	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
9	DB-TMU-L2-E1	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
10	DB-TMU-L2-E2	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
11	-	TBC	TBC	TBC	TBC	TBC	TBC	TBC
12	DB-TMU-L1-N1	Circ. 4C&E	10	Cu	XLPE 90°C	PVC	10	4
13	DB-TMU-L1-N2	Circ. 4C&E	10	Cu	XLPE 90°C	PVC	10	4
14	DB-TMU-L2-N1	S.D.I	35	Cu	XLPE 90°C	PVC	35	10
15	DB-TMU-L2-N2	S.D.I	35	Cu	XLPE 90°C	PVC	35	10
16	DB-TMU-L3-N1	Circ. 4C&E	16	Cu	XLPE 90°C	PVC	16	6
17	DB-TMU-HYD	Circ. 4C&E	16	Cu	XLPE 90°C	PVC	16	6
18	DB-TMU-L1-COMMS	Circ. 4C&E	10	Cu	RADOX 120°C	RADOX	10	4
19	DB-TMU-L2-UPS	Circ. 4C&E	10	Cu	RADOX 120°C	RADOX	10	4
20	DB-TMU-L3-COMMS	Circ. 4C&E	10	Cu	RADOX 120°C	RADOX	10	4
21	DB-TMU-UPS	Circ. 4C&E	16	Cu	RADOX 120°C	RADOX	16	6
22	DB-TMU-GEN. LIFE SAFETY SECTION BUSBAR	S.D.I	240	Cu	RADOX 120°C	RADOX	240	95
23	DB-TMU-GEN. ESSENTIAL SECTION BUSBAR	S.D.I	35	Cu	RADOX 120°C	RADOX	35	10
24	DB-TMU-PV	Circ. 4C&E	95	Cu	RADOX 120°C	RADOX	95	25
25	MSSB-L03-01	TBC	TBC	TBC	TBC	TBC	TBC	TBC
26	MSSB-L03-02	TBC	TBC	TBC	TBC	TBC	TBC	TBC
27	-	TBC	TBC	TBC	TBC	TBC	TBC	TBC

ALL SIZES (BREAKERS, CABLES, BUS, GENERATOR) ARE TO BE IDENTIFIED ON NEXT DESIGN STAGE.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

REV	DATE	BY	DESCRIPTION	CHK	APP
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DRAFT DETAIL DESIGN



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

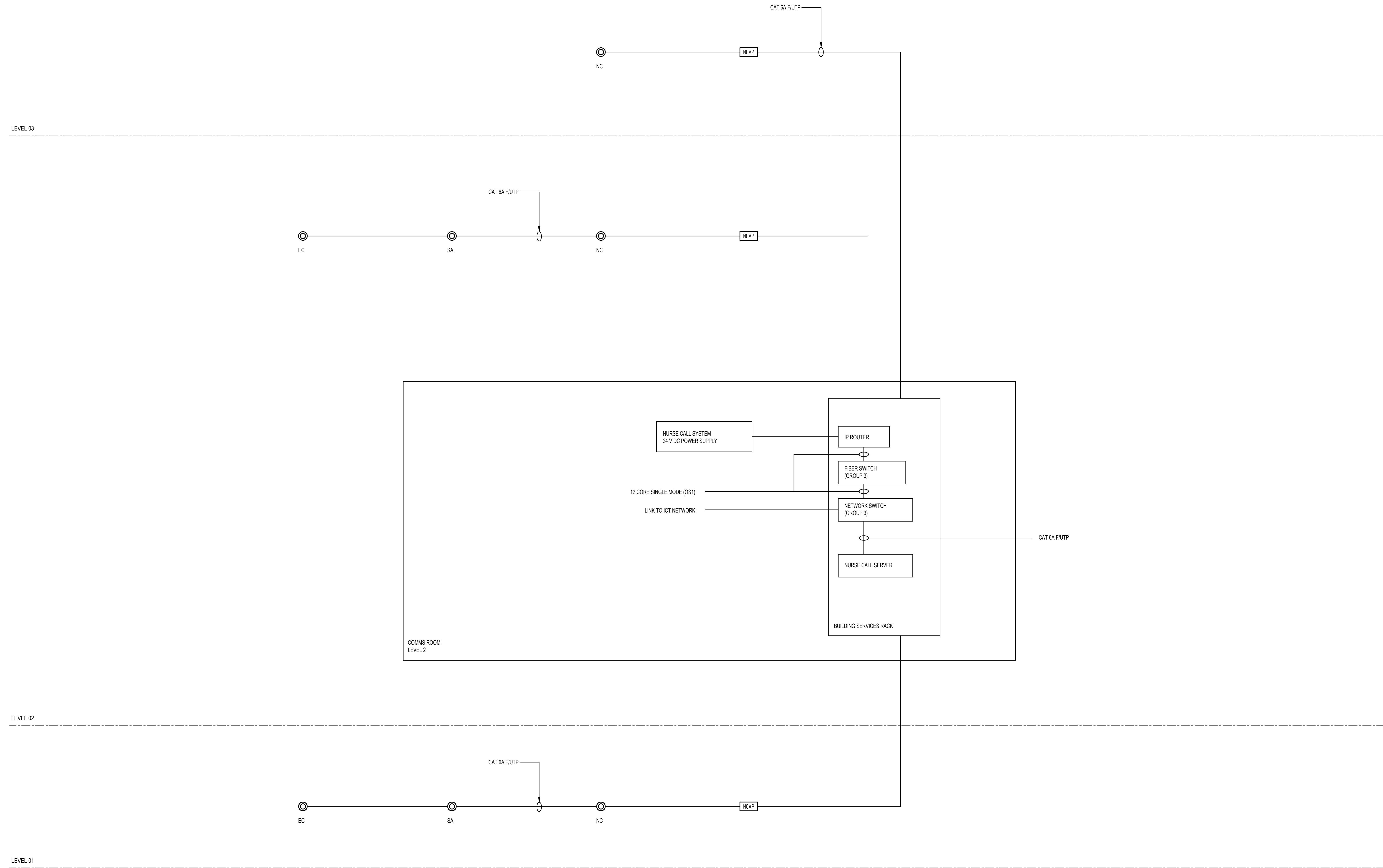
TITLE: ELECTRICAL SERVICES
ELECTRICAL SINGLE LINE DIAGRAM

SCALE @ A1	NTS	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	PS123315	DRAWN	AL	DATE	NOV 2022
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DRAWING NO.	A2B-WSP-DRW-ELE-E10-012	REV	A
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DRAWING GENERATED IN REVIT



DO NOT SCALE

GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- FOR ACTUAL QUANTITY OF NURSE CALL, CONTRACTOR TO REFER TO THE NURSE CALL LAYOUTS, ROOM DATA SHEETS AND ROOM LAYOUT SHEETS.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	2022-02-01	BM	DRAFT DETAIL DESIGN	SK	SK
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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES
NURSE CALL SCHEMATIC

SCALE @ A1	NTS	DRAWN	SK	APPROVED	SK
PROJECT NUMBER	PS123315	DRAWN	AL	DATE	NOV 2022

DRAWING NO.	A2B-WSP-DRW-ELE-E10-013	REV	A
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GENERAL NOTES:

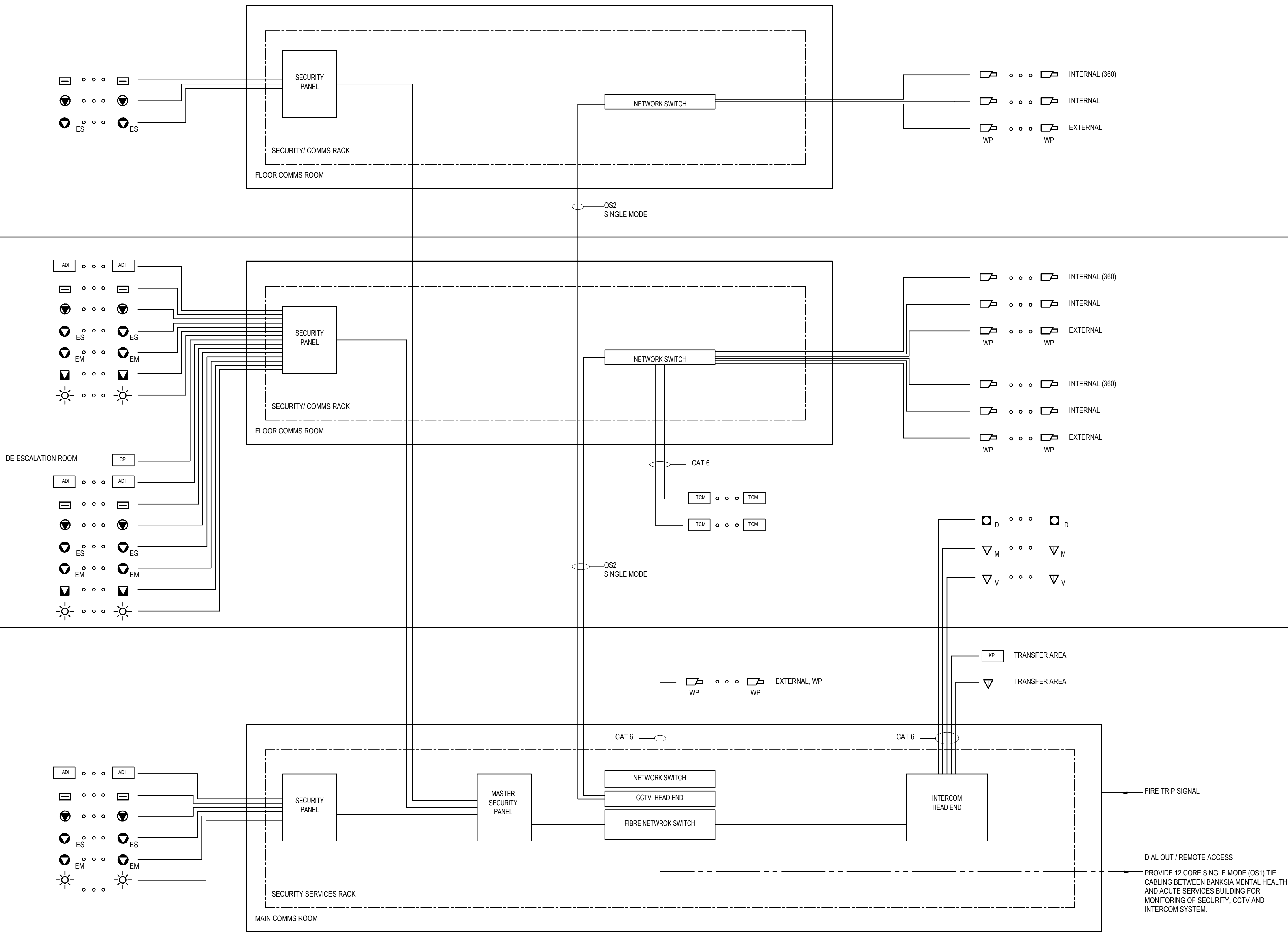
- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- FOR ACTUAL QUANTITY OF SECURITY DEVICES REFER TO SECURITY LAYOUTS, ROOM DATA SHEETS AND ROOM LAYOUT SHEETS.

ROOF

LEVEL 3

LEVEL 2

LEVEL 1



NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

REV	DATE	BY	DESCRIPTION	CHK	APP
A	2022/02/23	BM	DRAFT DETAIL DESIGN	SK	SK

DRAFT DETAIL DESIGN

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CLIENT: HEALTH INFRASTRUCTURE

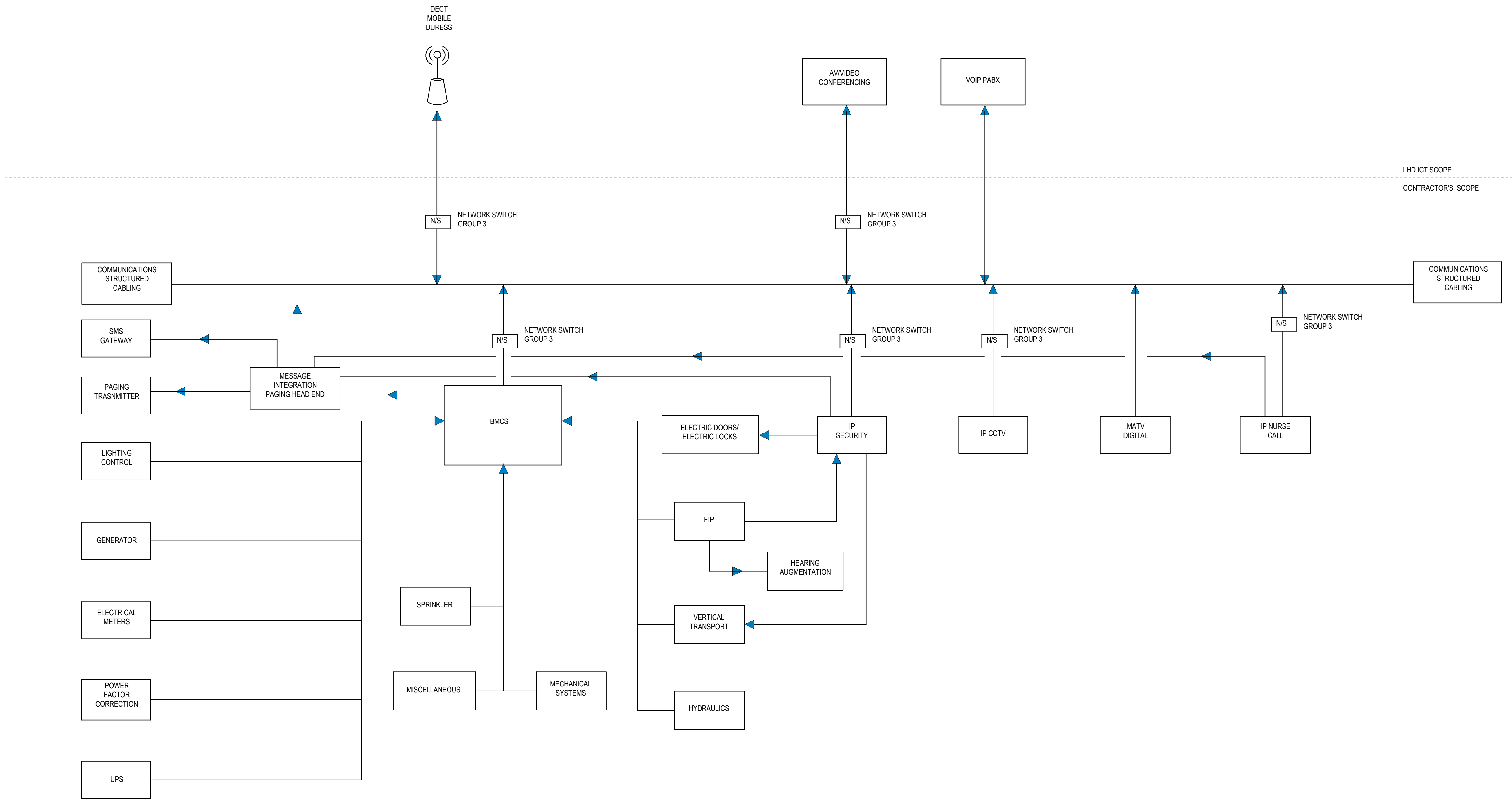
ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES SECURITY SCHEMATIC

SCALE @ A1	NTS	DRAWN	SK	APPROVED	SK
PROJECT NUMBER	PS123315	DRAWN	AA	DATE	NOV 2022

DRAWING NO.	A2B-WSP-DRW-ELE-E10-014	REV	A
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SYSTEMS INTERFACE BLOCK DIAGRAM

NOTES:

1. ALL COMMUNICATION CABLING TO BE CATEGORY 6A UTP AND BE INSTALLED BY THE ACCREDITED INSTALLER OF THE COMMUNICATIONS STRUCTURED CABLING SYSTEM.
2. NO THIRD PARTY NETWORK SWITCH IS TO BE CONNECTED TO THE BUILDING'S COMMUNICATIONS STRUCTURED CABLING SYSTEM.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	2022-03-01	BM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: DRAFT DETAIL DESIGN



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<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES INTERFACE SINGLE DIAGRAM

SCALE @ A1	NTS	DRAWN: SK	APPROVED: SK
PROJECT NUMBER:	PS123315	DATE: NOV 2022	REV:

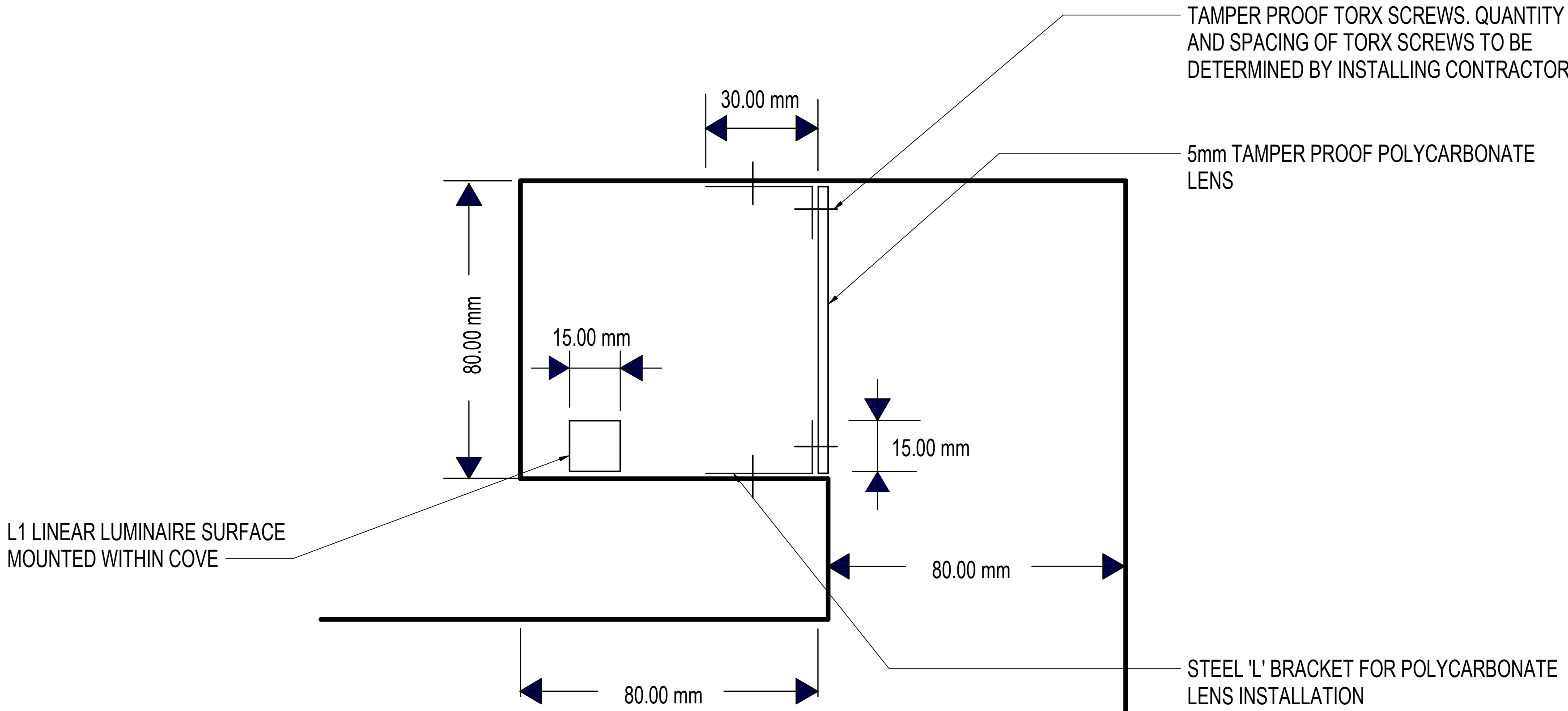
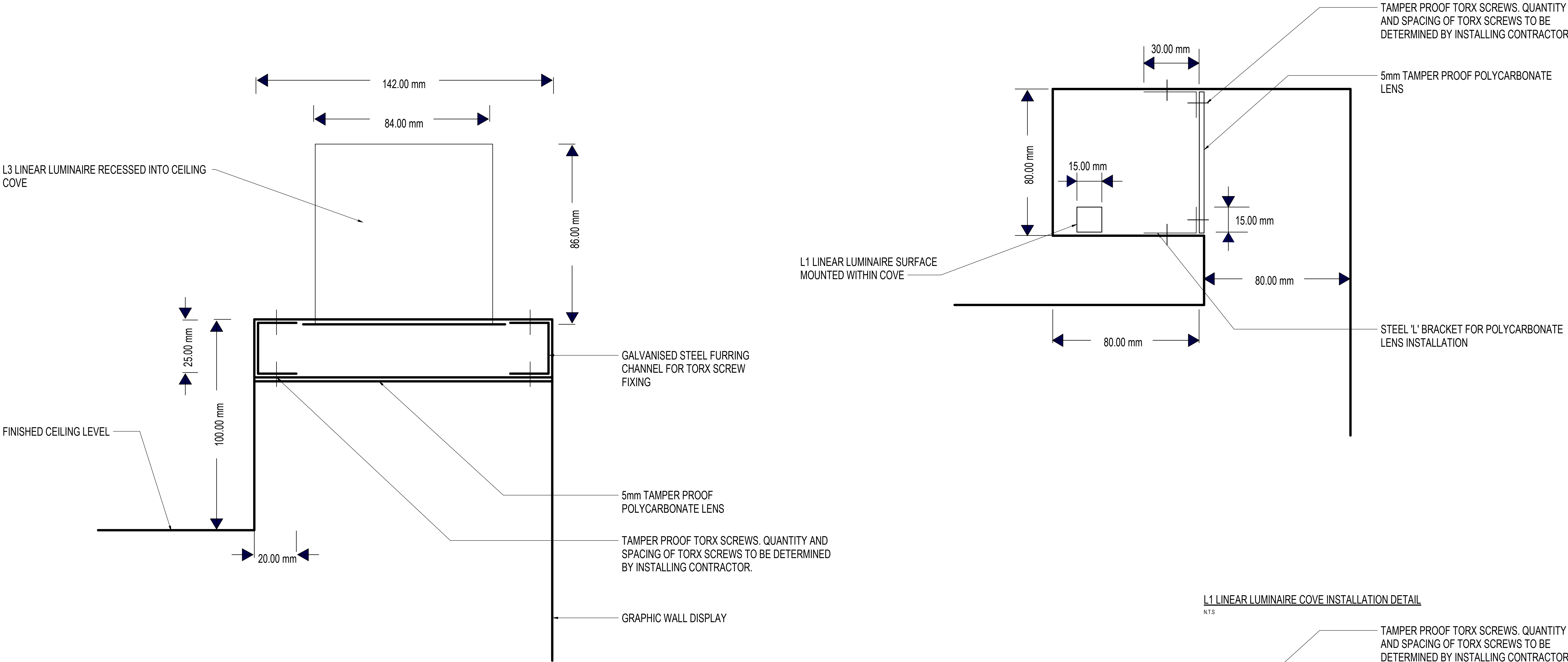
A2B-WSP-DRW-ELE-E10-015

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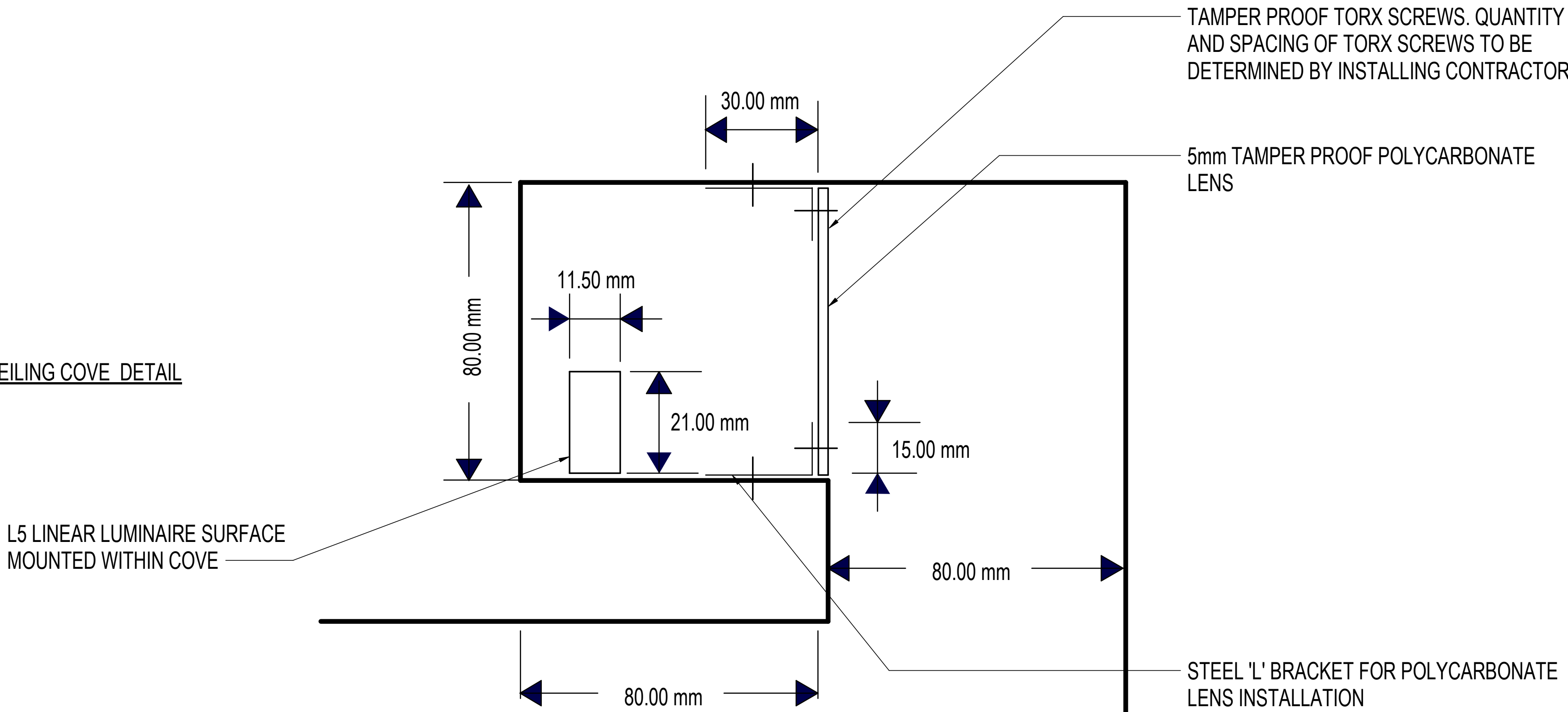
GENERAL NOTES:

- DRAWING TO BE READ IN CONJUNCTION WITH DRAWING ELE-E30-200 - LIGHTING LAYOUT - LEVEL 02.
- L1, L3 AND L5 LINEAR LUMINAIRE TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR.
- INSTALLING CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SOLUTION FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION AND ORDERING.



L1 LINEAR LUMINAIRE COVE INSTALLATION DETAIL

NTS



L5 LINEAR LUMINAIRE COVE INSTALLATION DETAIL

NTS

L3 LINEAR LUMINAIRE RECESSED INTO CEILING COVE DETAIL

NTS

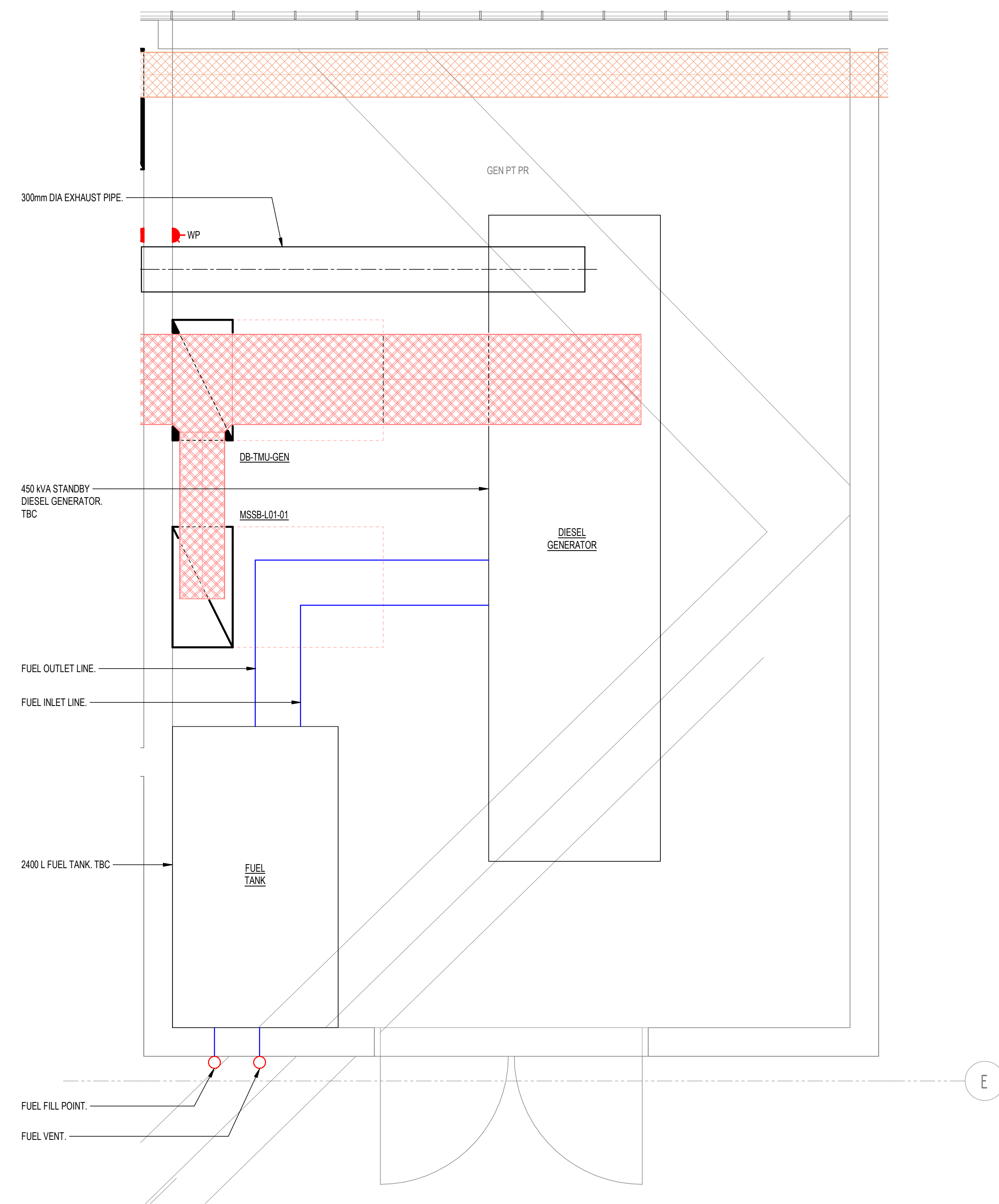
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A	2022-2023	BSM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
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CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: ELECTRICAL SERVICES LIGHTING DETAILS					
SCALE @ A1: NTS		DRAWN: SK		APPROVED: SK	
PROJECT NUMBER: PS123315		DRAWN: RT		DATE: NOV 2022	
DRAWING NO: A2B-WSP-DRW-ELE-E10-020					REV: A
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DO NOT SCALE

GENERAL NOTES:

1. GENERATOR ROOM TO HAVE UNRESTRICTED ACCESS FOR MOVEMENT OF PLANT.
2. LOUVER DOOR TO BE PROVIDED FOR GENERATOR ROOM VENTILATION.
3. ALL POWER OUTLETS TO BE IP50 RATED.
4. A 100mm HIGH PLINTH SHALL BE INSTALLED IN THE GENERATOR ROOM BY OTHERS FOR INSTALLATION OF GENERATOR.
5. VENTILATION TO DIESEL GENERATOR TO BE PROVIDED BY MECHANICAL CONTRACTOR. INTAKE LOUVERS TO BE PROVIDED BY OTHERS.
6. GENERATOR EXHAUST FLUE TO BE MINIMUM 6m FROM ANY AIR INTAKES.
7. DIMENSIONS OF GENERATOR ARE BASED ON CUMMINS C220 D5E.
8. THE FUEL VENT LINE SHALL BE PROVIDED MINIMUM OF 3m ABOVE THE FILL POINT.
9. THE FUEL TANK SHALL BE 4 HOUR FIRE RATED DOUBLE SKINNED SELF BUNDED.
10. ALL ELECTRICAL INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH AS/NZS3000 ELECTRICAL WIRING RULES AND AS/NZS2009:1998.
11. GENERATOR DETAIL DESIGN IS TO BE FINALIZED ON NEXT DESIGN STAGE.
12. GENERATOR SIZE IS TO BE FINALIZED ON NEXT DESIGN STAGE.



GENERATOR ROOM DETAIL

1:20

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	24.10.2023	BM	BRVT DETAIL DESIGN	SK
	DATE	BY		CHK
REV			DESCRIPTION	APP

DRAFT STATUS: DRAFT DETAIL DESIGN



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HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

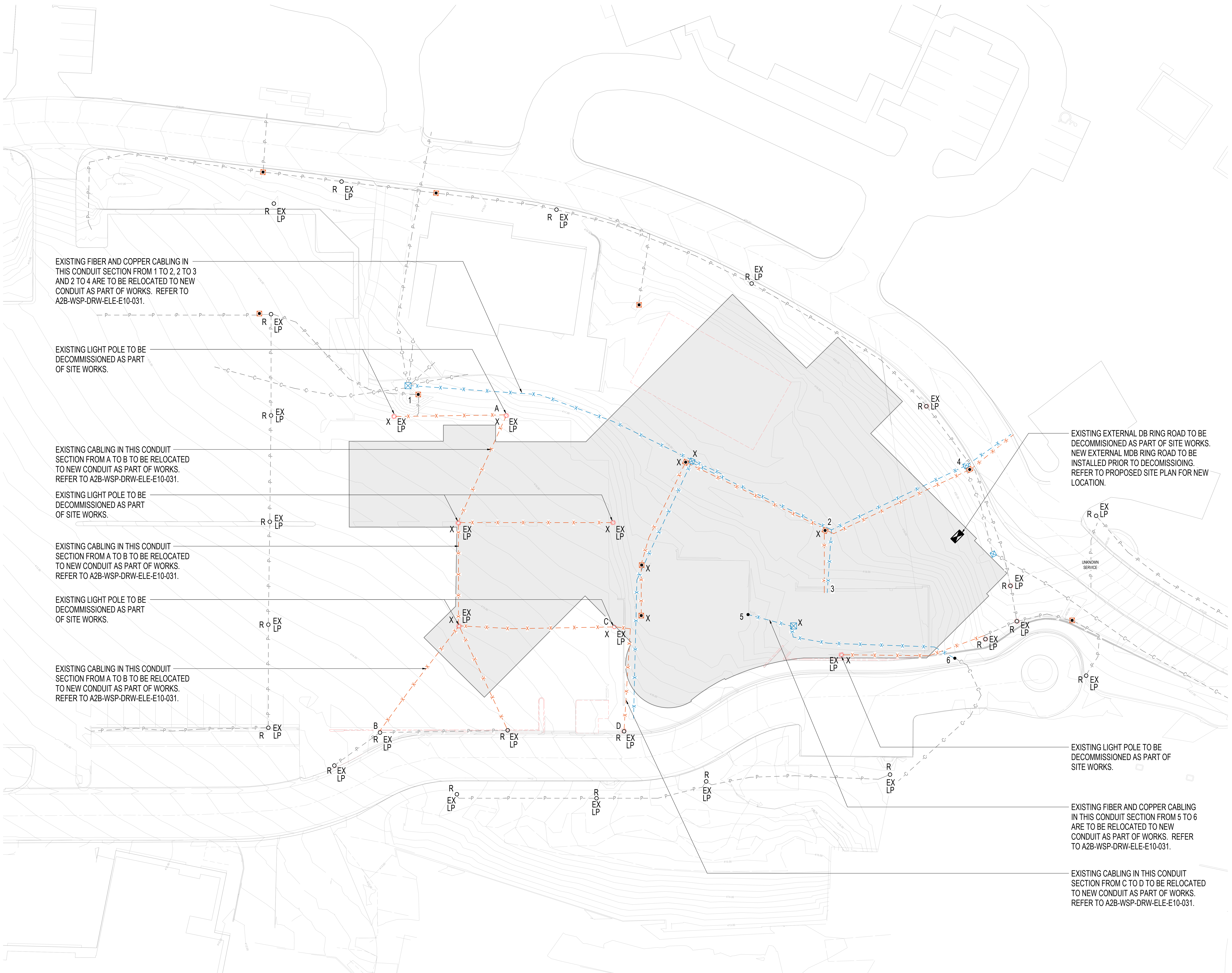
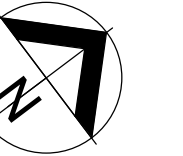
TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
GENERATOR DETAIL

SCALE @ A0: 1:20	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022

A2B-WSP-DRW-ELE-E10-021 A

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EXISTING FIBER AND COPPER CABLING IN THIS CONDUIT SECTION FROM 1 TO 2, 2 TO 3 AND 2 TO 4 ARE TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

EXISTING LIGHT POLE TO BE DECOMMISSIONED AS PART OF SITE WORKS.

EXISTING CABLING IN THIS CONDUIT SECTION FROM A TO B TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

EXISTING LIGHT POLE TO BE DECOMMISSIONED AS PART OF SITE WORKS.

EXISTING CABLING IN THIS CONDUIT SECTION FROM A TO B TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

EXISTING LIGHT POLE TO BE DECOMMISSIONED AS PART OF SITE WORKS.

EXISTING CABLING IN THIS CONDUIT SECTION FROM A TO B TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

EXISTING EXTERNAL DB RING ROAD TO BE DECOMMISSIONED AS PART OF SITE WORKS. NEW EXTERNAL MDB RING ROAD TO BE INSTALLED PRIOR TO DECOMMISSIONING. REFER TO PROPOSED SITE PLAN FOR NEW LOCATION.

EXISTING LIGHT POLE TO BE DECOMMISSIONED AS PART OF SITE WORKS.

EXISTING FIBER AND COPPER CABLING IN THIS CONDUIT SECTION FROM 5 TO 6 ARE TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

EXISTING CABLING IN THIS CONDUIT SECTION FROM C TO D TO BE RELOCATED TO NEW CONDUIT AS PART OF WORKS. REFER TO A2B-WSP-DRW-ELE-E10-031.

LEGEND:

- C—C— EXISTING UNDERGROUND COMMS CABLING AND CONDUIT TO REMAIN.
- P—P— EXISTING UNDERGROUND POWER CABLING AND CONDUIT TO REMAIN.
- X—X— EXISTING UNDERGROUND COMMS CABLING AND CONDUIT TO BE REMOVED AS PART OF SITE WORKS.
- X—X— EXISTING UNDERGROUND POWER CABLING AND CONDUIT TO BE REMOVED AS PART OF SITE WORKS.
- ⊠ EXISTING COMMS PIT
X DENOTES TO BE REMOVED.
- ⊠ EXISTING POWER PIT
X DENOTES TO BE REMOVED.
- EX LP EXISTING LIGHT POLE
X - TO BE REMOVED.
R - RETAIN.

THE SERVICES SHOWN HERE IN THE DIAGRAM IS INDICATIVE ONLY.

NOTE:- THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

REV	DATE	BY	DESCRIPTION	CHK	APP
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DRAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

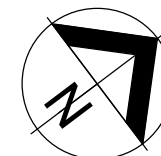
PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
EXISTING SITE PLAN - ELECTRICAL AND ICT SITE WORKS

SCALE @ A1: 1:200	DRAWN: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022

DRAWING NO: A2B-WSP-DRW-ELE-E10-030

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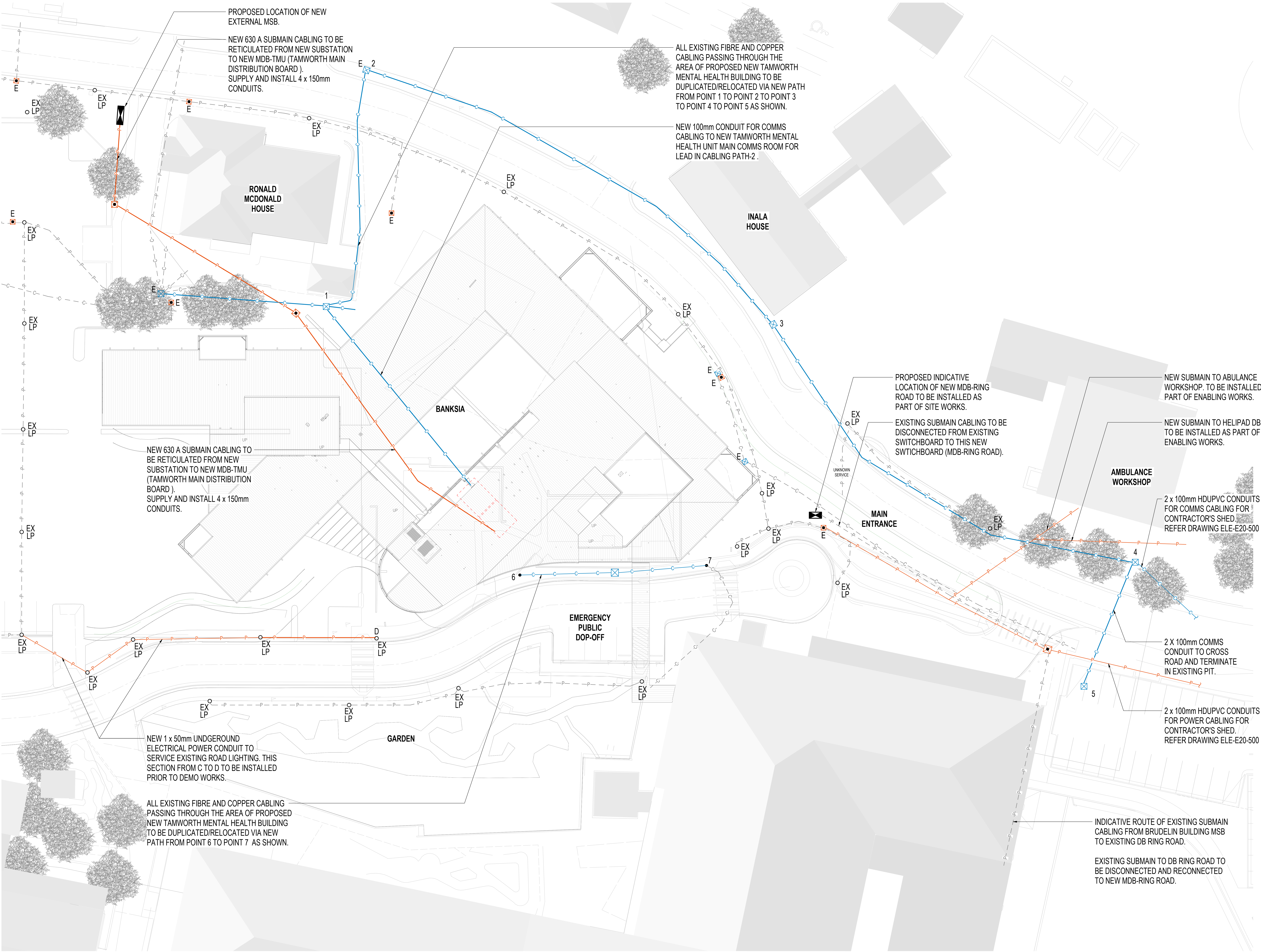
GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- ALL DISTURPTIONS RESULTING AS PART OF THE WORKS SHALL BE APPROVED BY LHD. PROVIDE WORK METHOD STATEMENT TO LHD PRIOR TO WORKS.
- ALL CONDUIT SIZES INDICATED ARE TO BE FINALIZED ON NEXT DESIGN STAGE.

LEGEND:

- EXISTING UNDERGROUND COMMS CABLING AND CONDUIT.
- EXISTING UNDERGROUND POWER CABLING AND CONDUIT.
- NEW UNDERGROUND COMMS CABLING AND CONDUIT.
- NEW UNDERGROUND POWER CABLING AND CONDUIT.
- PROPOSED COMMS PIT
E DENOTES EXISTING.
- PROPOSED ELECTRICAL PIT
E DENOTES EXISTING.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.



A	20/02/2023	BM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
 Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: ELECTRICAL SERVICES PROPOSED SITE PLAN - ELECTRICAL AND ICT SHEET 1					
SCALE @ A0 1:200		CHECKED SK		APPROVED SK	
PROJECT NUMBER: PS123315		DRAWN: AL		DATE: NOV 2022	
DRAWING NO: A2B-WSP-DRW-ELE-E10-031				REV A	
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1. FOR LEGEND AND SYMBOLS REFER TO
DRW-ELE-E10-001.
2. THIS DRAWING TO BE READ IN CONJUNCTION
WITH ALL OTHER ELECTRICAL DRAWINGS AND
THE SPECIFICATION.
3. DRAWING TO BE READ IN CONJUNCTION WITH
ARCHITECTURAL AND OTHER SERVICES
DRAWINGS.
4. ALL WORKS TO BE DONE IN ACCORDANCE WITH
ASINIS 3000.
5. COORDINATE FINAL LOCATIONS OF ALL
ELECTRICAL EQUIPMENT WITH OTHER TRADES
ON SITE. REFER TO ARCHITECTURAL,
MECHANICAL AND FIRE DOCUMENTATION AS
APPROPRIATE.
6. ALL DISTURPTIONS RESULTING AS PART OF THE
WORKS SHALL BE APPROVED BY LHD. PROVIDE
WORK METHOD STATEMENT TO LHD PRIOR TO
WORKS.

	EXISTING UNDERGROUND COMMS CABLEING AND CONDUIT.
	EXISTING UNDERGROUND POWER CABLEING AND CONDUIT.
	NEW UNDERGROUND COMMS CABLEING AND CONDUIT.
	NEW UNDERGROUND POWER CABLEING AND CONDUIT.
	PROPOSED COMMS PIT E DENOTES EXISTING.
	PROPOSED ELECTRICAL PIT E DENOTES EXISTING.

[illegible]

DRAWING STATUS: DRAFT DETAIL DESIGN



ARCHITECT: SILVER THOMAS HANLEY

TITLE: ELECTRICAL SERVICES
PROPOSED SITE PLAN - ELECTRICAL AND
SHEET 2

DRAWING No: _____

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EX LP

EX
LP

INDICATIVE ROUTE OF EXISTING SUBMAIN
CABLING FROM BRUDELIN BUILDING MSB
TO EXISTING DB RING ROAD.

EXISTING SUBMAIN TO DB RING ROAD TO
BE DISCONNECTED AND RECONNECTED
TO NEW MDB-RING ROAD.

2 x 100mm HDUPVC CONDUITS
FOR POWER CABLING FOR
CONTRACTOR'S SHED.
REFER DRAWING ELE-E20-500

PROPOSED ROUTE FOR RETICULATION
OF SUBMAIN CABLING FROM BRUDELIN
MSB TO NEW MDB-RING.

THE CONTRACTOR SHALL SURVEY THE ROUTE AND USE EXISTING CONDUITS FOR RETICULATION WHERE POSSIBLE BASED ON THE SURVEY RESULTS.

FOR PRICING ALLOW FOR 3 x 150mm
HDUPVC CONDUIT TO RETICULATE
CABLING.

INDICATIVE LOCATION OF EXISTING
BRUDELIN BUILDING CAMPUS
DISTRIBUTOR. NEW LEAD CABLING
PATH-1 FOR BANKSIA TO BE
RETICULATED FROM THIS CAMPUS
DISTRIBUTOR. EXISTING RECLINATION
PATH TO THE NORTH OF SITE TO BE
FOLLOWED FOR THE NEW CABLES.

1. FOR LEGEND AND SYMBOLS REFER TO
DRW-ELE-E10-001.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH
ALL OTHER ELECTRICAL DRAWINGS AND THE
SPECIFICATION.
3. DRAWING TO BE READ IN CONJUNCTION WITH
ARCHITECTURAL AND OTHER SERVICES
DRAWINGS.
4. ALL WORKS TO BE DONE IN ACCORDANCE WITH
ASINZS 3000.
5. COORDINATE FINAL LOCATIONS OF ALL
ELECTRICAL EQUIPMENT WITH OTHER TRADES ON
SITE. REFER TO ARCHITECTURAL, MECHANICAL
AND FIRE DOCUMENTATION AS APPROPRIATE.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	24.02.2023	BM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

RAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

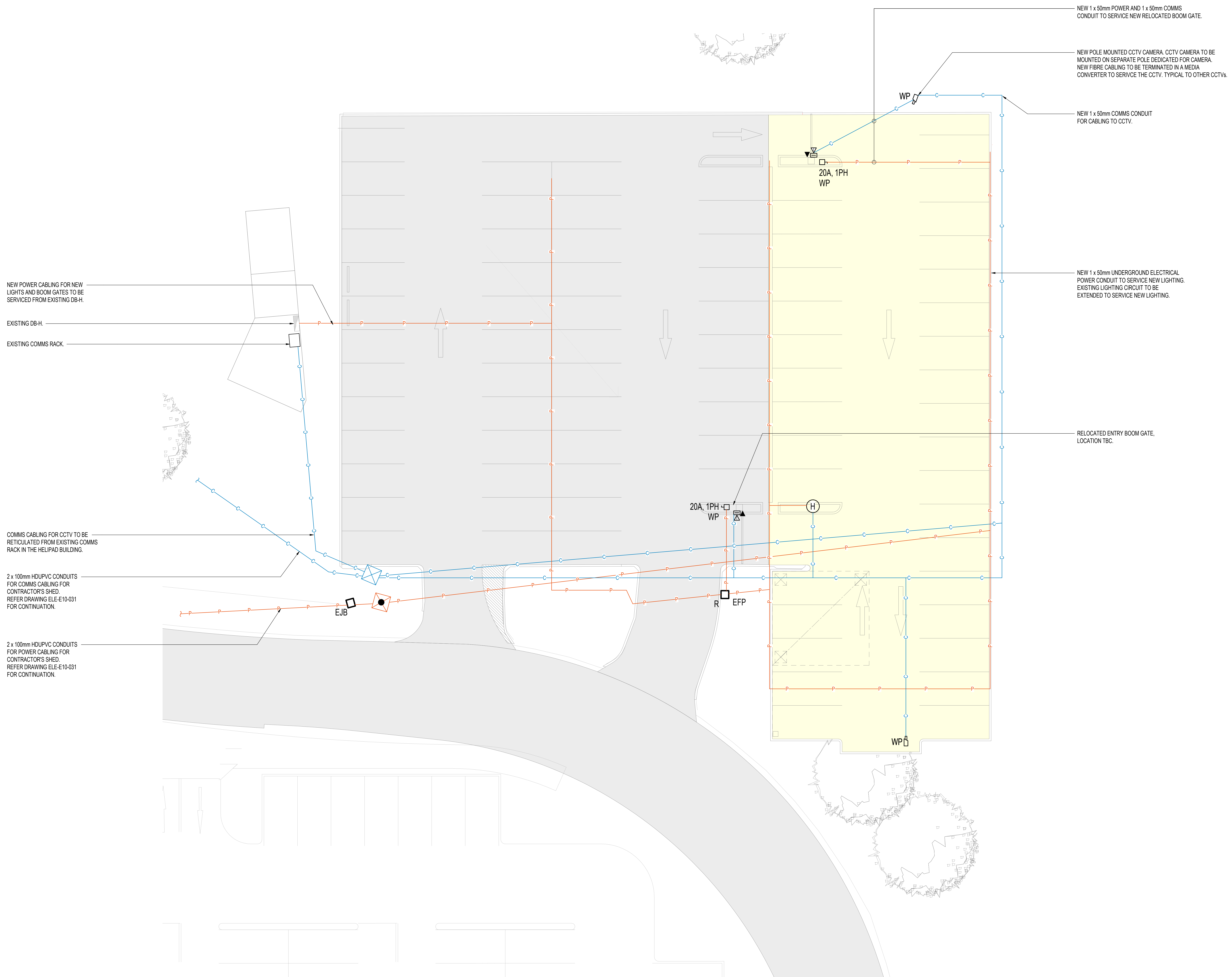
AMWORTH MENTAL HEALTH UNIT

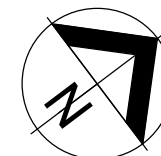
ELECTRICAL SERVICES
POWER AND SECURITY LAYOUT - CARPARK

SCALE @ A0: 1:100	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022

A2B-WSP-DRW-ELE-E10-033

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- SUPPLY AND INSTALL ELECTRICAL SERVICES IN ACCORDANCE WITH AS/NZS3003:2018.
- REFER TO MECHANICAL, HYDRAULIC AND FIRE SERVICES DRAWINGS FOR POWER REQUIREMENTS, PROVIDE AS REQUIRED.
- COORDINATE FINAL LOCATION OF SWITCHED SOCKET OUTLETS FOR SECURITY SERVICES WITH THE SECURITY CONTRACT PRIOR TO INSTALLATION ON SITE.
- REFER TO ARCHITECTURAL ROOM LAYOUT SHEETS FOR SETOUT & MOUNTING HEIGHTS OF OUTLETS.

SPECIFIC NOTES:

- PROVIDE 4 NOS. 15A, 1PH GPDS FOR MICRON AUTOMATIC BACKWASH FILTERS. LOCATION AND REQUIREMENT TO BE COORDINATED WITH HYDRAULIC SERVICES.
- PROVIDE 2 NOS. 10A, 1PH GPDS FOR UV FILTER. LOCATION AND REQUIREMENT TO BE COORDINATED WITH HYDRAULIC SERVICES.
- PROVIDE 2 NOS. 20A, 1PH ISOLATORS FOR PRIMARY CIRCULATING HEATED WATER. LOCATION AND REQUIREMENT TO BE COORDINATED WITH HYDRAULIC SERVICES.
- PROVIDE 2 NOS. 10A, 1PH ISOLATORS FOR PRIMARY RETURN HEATED WATER. LOCATION AND REQUIREMENT TO BE COORDINATED WITH HYDRAULIC SERVICES.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.



REV	DATE	BY	DESCRIPTION	CHK	APP
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DRAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES

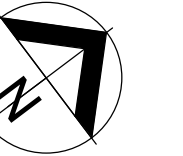
POWER AND COMMS LAYOUT - LEVEL 01

SCALE & N	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	DRAWN	AL	DATE	NOV 2022
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DRAWING NO	A2B-WSP-DRW-ELE-E20-100	REV	1
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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- SUPPLY AND INSTALL ELECTRICAL SERVICES IN ACCORDANCE WITH AS/NZS3003:2018.
- REFER TO MECHANICAL, HYDRAULIC AND FIRE SERVICES DRAWINGS FOR POWER REQUIREMENTS, PROVIDE AS REQUIRED.
- COORDINATE FINAL LOCATION OF SWITCHED SOCKET OUTLETS FOR SECURITY SERVICES WITH THE SECURITY CONTRACT PRIOR TO INSTALLATION ON SITE.
- REFER TO ARCHITECTURAL ROOM LAYOUT SHEETS FOR SETOUT & MOUNTING HEIGHTS OF OUTLETS.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.



FOR CONTINUATION REFER DWG A2B-WSP-DRW-ELE-E20-201

REV	DATE	BY	DESCRIPTION	CHK	APP
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DRAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
POWER AND COMMS LAYOUT PART 1 - LEVEL 02

SCALE @ A1: 1:100
PROJECT NUMBER: PS123315
DRAWING NUMBER: A2B-WSP-DRW-ELE-E20-200

DRAWING NO: A2B-WSP-DRW-ELE-E20-200

DATE: NOV 2022

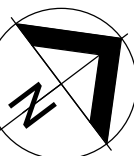
REV: A

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1. FOR LEGEND AND SYMBOLS REFER TO DW-EE-E-10-001.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
3. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
4. ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
5. COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
6. SUPPLY AND INSTALL ELECTRICAL SERVICES IN ACCORDANCE WITH AS/NZS3003:2018.
7. REFER TO MECHANICAL, HYDRAULIC AND FIRE SERVICES DRAWINGS FOR POWER REQUIREMENTS, PROVIDE AS REQUIRED.
8. COORDINATE FINAL LOCATION OF SWITCHED SOCKET OUTLETS FOR SECURITY SERVICES WITH THE SECURITY CONTRACT PRIOR TO INSTALLATION ON SITE.
9. REFER TO ARCHITECTURAL ROOM LAYOUT SHEETS FOR SETOUT & MOUNTING HEIGHTS OF OUTLETS.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- SUPPLY AND INSTALL ELECTRICAL SERVICES IN ACCORDANCE WITH AS/NZS3003:2018.
- REFER TO MECHANICAL, HYDRAULIC AND FIRE SERVICES DRAWINGS FOR POWER REQUIREMENTS, PROVIDE AS REQUIRED.
- COORDINATE FINAL LOCATION OF SWITCHED SOCKET OUTLETS FOR SECURITY SERVICES WITH THE SECURITY CONTRACT PRIOR TO INSTALLATION ON SITE.
- REFER TO ARCHITECTURAL ROOM LAYOUT SHEETS FOR SETOUT & MOUNTING HEIGHTS OF OUTLETS.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	2022-03-01	SK	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: DRAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

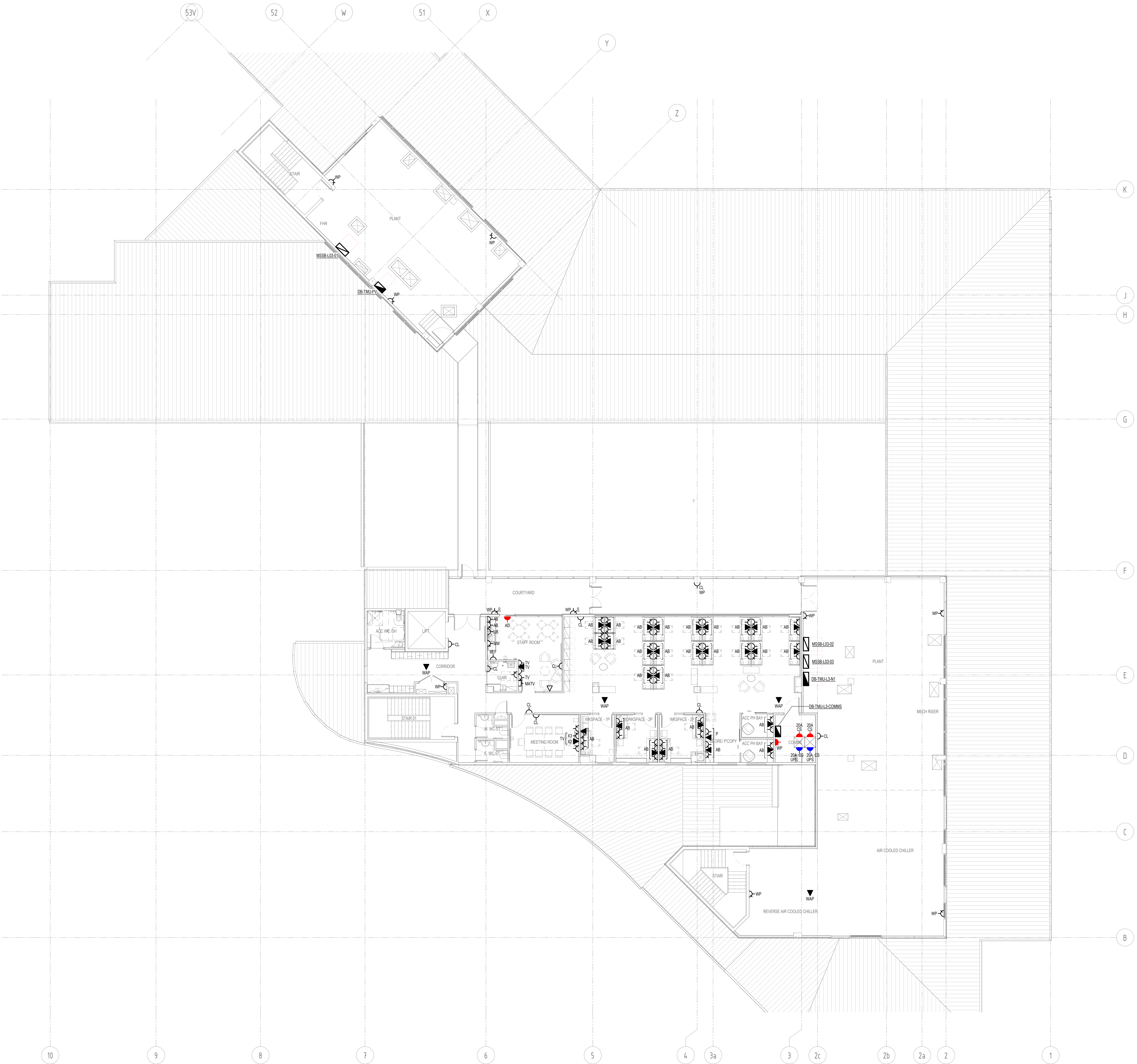
PROJECT: TAMWORTH MENTAL HEALTH UNIT

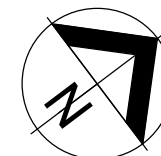
TITLE: ELECTRICAL SERVICES
POWER AND COMMS LAYOUT - LEVEL 03

SCALE @ A1: 1:100	DRAWN: AL	APPROVED: SK
PROJECT NUMBER: PS123315	DATE: NOV 2022	REV:

DRAWING NO: A2B-WSP-DRW-ELE-E20-300	REV: A
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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- ALL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATION IN AS/NZS 1680.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- FOR ALL LUMINAIRE TYPES AND SPECIFICATIONS REFER TO THE LUMINAIRE SCHEDULE.
- FOR LIGHTING CONTROL TYPES (LCH) REFER TO LIGHTING CONTROL SCHEDULE ON DRAWING DRW-ELE-E10-001.
- PROVIDE LIGHTING CONTROL SYSTEM DESIGN AND PROGRAMMING TO MEET THE REQUIREMENTS AS SHOWN ON THE DRAWINGS AND IN THE LIGHTING CONTROL SCHEDULE.
- THE LIGHTING CONTROL SYSTEM IS TO BE KNX DALI. ALL LUMINAIRES TO BE CONTROLLED BY KNX SENSOR MANUAL SWITCHES AND LIGHTING CONTROL PANELS. ALL NECESSARY KNX COMPONENTS TO BE PROVIDED AS REQUIRED TO COMPLETE THE WORKS AND PROVIDE THE SPECIFIED FUNCTIONALITY.
- LIGHTING CONTROL TO BE COMMISSIONED BY AN INTEGRATOR TRAINED IN THE SPECIFIC KNX DALI CONTROL PROTOCOL. ALL SETTINGS, INCLUDING DIMMING LEVELS, TO BE SET ON SITE WITH LIGHTING DESIGNER, CLIENT, END USERS AND ARCHITECT. ALLOW FOR ONE ADDITIONAL COMMISSIONING SESSION APPROXIMATELY FOUR WEEKS AFTER HANDOVER TO ADJUST SETTINGS BASED ON CLIENT COMMENTS.
- ALL WIRING TO BE INSTALLED AS PER KNX TECHNICAL STANDARD (ISO/IEC 14543.3.1), DALI STANDARD (IES 62386) AND ALL LOCAL ELECTRICAL REGULATIONS.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	2022/02/01	RM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS:					
DRAFT DETAIL DESIGN					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: ELECTRICAL SERVICES LIGHTING LAYOUT - LEVEL 01					
SCALE & N	1:100	DRAWN	SK	APPROVED	SK
PROJECT NUMBER:	PS123315	DRAWN	RT	DATE:	NOV 2022
DRAWING NO:	A2B-WSP-DRW-ELE-E30-100	REV			
					A
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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- ALL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATION IN AS/NZS 1680.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- FOR ALL LUMINAIRE TYPES AND SPECIFICATIONS REFER TO THE LUMINAIRE SCHEDULE.
- FOR LIGHTING CONTROL TYPES (LCH) REFER TO LIGHTING CONTROL SCHEDULE ON DRAWING DRW-ELE-E10-001.
- PROVIDE LIGHTING CONTROL SYSTEM DESIGN AND PROGRAMMING TO MEET THE REQUIREMENTS AS SHOWN ON THE DRAWINGS AND IN THE LIGHTING CONTROL SCHEDULE.
- THE LIGHTING CONTROL SYSTEM IS TO BE KNX DALI. ALL LUMINAIRES TO BE CONTROLLED BY KNX SENSOR, MANUAL SWITCHES AND LIGHTING CONTROL PANELS. ALL NECESSARY KNX COMPONENTS TO BE PROVIDED AS REQUIRED TO COMPLETE THE WORKS AND PROVIDE THE SPECIFIED FUNCTIONALITY.
- LIGHTING CONTROL TO BE COMMISSIONED BY AN INTEGRATOR TRAINED IN THE SPECIFIC KNX DALI CONTROL PROTOCOL. ALL SETTINGS, INCLUDING DIMMING LEVELS, TO BE SET ON SITE WITH LIGHTING DESIGNER, CLIENT, END USERS AND ARCHITECT. ALLOW FOR ONE ADDITIONAL COMMISSIONING SESSION APPROXIMATELY FOUR WEEKS AFTER HANDOVER TO ADJUST SETTINGS BASED ON CLIENT COMMENTS.
- ALL WIRING TO BE INSTALLED AS PER KNX TECHNICAL STANDARD (ISO/IEC 14543.3.1), DALI STANDARD (IES 62386) AND ALL LOCAL ELECTRICAL REGULATIONS.
- FOR ALL NON-STANDARD ANTI-LIGATURE APPLICATIONS (L1, L3, L5, N1 AND PR2), ALL POLYCARBONATE LENS BARRIERS TO BE SOURCED, SUPPLIED AND COORDINATED BY THE INSTALLING CONTRACTOR.
- ALL W2 COURTYARD LIGHTING TO BE SWITCHED WITH CORRIDOR CIRCUITS, MANUALLY CONTROLLED AT NURSE STATIONS.
- ALL EXTERNAL LIGHTING TO BE CONTROLLED BY PE CELL AND TIME CLOCK TO OPERATE FROM DUSK - DAWN. OPERATION TIMES TO BE CONFIRMED BY OPERATORS/CLIENT.
- EXTERNAL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS IN AS/NZS 1158.3.1 AS FOLLOWS:
15.1 PEDESTRIAN PATHWAY - PP3
15.2 CARPARKING - PC2
15.3 DISABLED CARPARK - PCD
15.4 PEDESTRIAN CROSSING - PCX

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

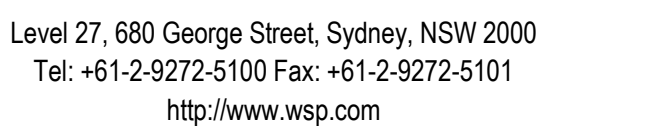


FOR CONTINUATION REFER DWG A2B-WSP-DRW-ELE-E30-201

A	24/02/2023	BM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
					
Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: ELECTRICAL SERVICES LIGHTING LAYOUT PART 1 - LEVEL 02					
SCALE @ A1 1:100		CHECKED SK		APPROVED SK	
PROJECT NUMBER: PS123315		DRAWN RT		DATE: NOV 2023	
DRAWING NO: A2B-WSP-DRW-ELE-E30-200					REV A
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2. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
3. ALL WORKS TO BE DONE IN ACCORDANCE WITH ASINZS 3000.
4. ALL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATION IN ASINZS 1680.
5. COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
6. FOR ALL LUMINAIRE TYPES AND SPECIFICATIONS REFER TO THE LUMINAIRE SCHEDULE.
7. FOR LIGHTING CONTROL TYPES (LC#) REFER TO LIGHTING CONTROL SCHEDULE ON DRAWING DRW-ELE-E10-001.
8. PROVIDE LIGHTING CONTROL SYSTEM DESIGN AND PROGRAMMING TO MEET THE REQUIREMENTS AS SHOWN ON THE DRAWINGS AND IN THE LIGHTING CONTROL SCHEDULE.
9. THE LIGHTING CONTROL SYSTEM IS TO BE KNX DALI. ALL LUMINAIRES TO BE CONTROLLED BY KNX SENSOR, MANUAL SWITCHES AND LIGHTING CONTROL PANELS. ALL NECESSARY KNX COMPONENTS TO BE PROVIDED AS REQUIRED TO COMPLETE THE WORKS AND PROVIDE THE SPECIFIED FUNCTIONALITY.
10. LIGHTING CONTROL TO BE COMMISSIONED BY AN INTEGRATOR TRAINED IN THE SPECIFIC KNX DALI CONTROL PROTOCOL. ALL SETTINGS, INCLUDING DIMMING LEVELS, TO BE SET ON SITE WITH LIGHTING DESIGNER, CLIENT, END USERS AND ARCHITECT. ALLOW FOR ONE ADDITIONAL COMMISSIONING SESSION APPROXIMATELY FOUR WEEKS AFTER HANDOVER TO ADJUST SETTINGS BASED ON CLIENT COMMENTS.
11. ALL WIRING TO BE INSTALLED AS PER KNX TECHNICAL STANDARD (ISO/IEC 14543-3.1), DALI STANDARD (IES 62386) AND ALL LOCAL ELECTRICAL REGULATIONS.
12. ALL NON-PRANDANT ANTI-LIGATURE APPLICATIONS (L1, L3, L5, N1 AND N2) ALL POLYCARBONATE LENS BARRIERS TO BE SOURCED, SUPPLIED AND COORDINATED BY THE INSTALLING CONTRACTOR.
13. ALL W2 COURTYARD LIGHTING TO BE SWITCHED WITH CORRIDOR CIRCUITS, MANUALLY CONTROLLED AT NURSE STATIONS.
14. ALL EXTERNAL LIGHTING TO BE CONTROLLED BY PE CELL AND TIME CLOCK TO OPERATE FROM DUSK - DAWN. OPERATION TIMES TO BE CONFIRMED BY OPERATORS/CLIENT.
15. EXTERNAL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATIONS IN ASINZS 1158.31 AS FOLLOWS:
15.1 PEDESTRIAL PATHWAY: PP3
15.2 CARPARKING: PC2
15.3 DISABLED CARPARK: PC3
15.4 PEDESTRIAN CROSSING: PCD

[illegible]DRAFT DETAIL DESIGN

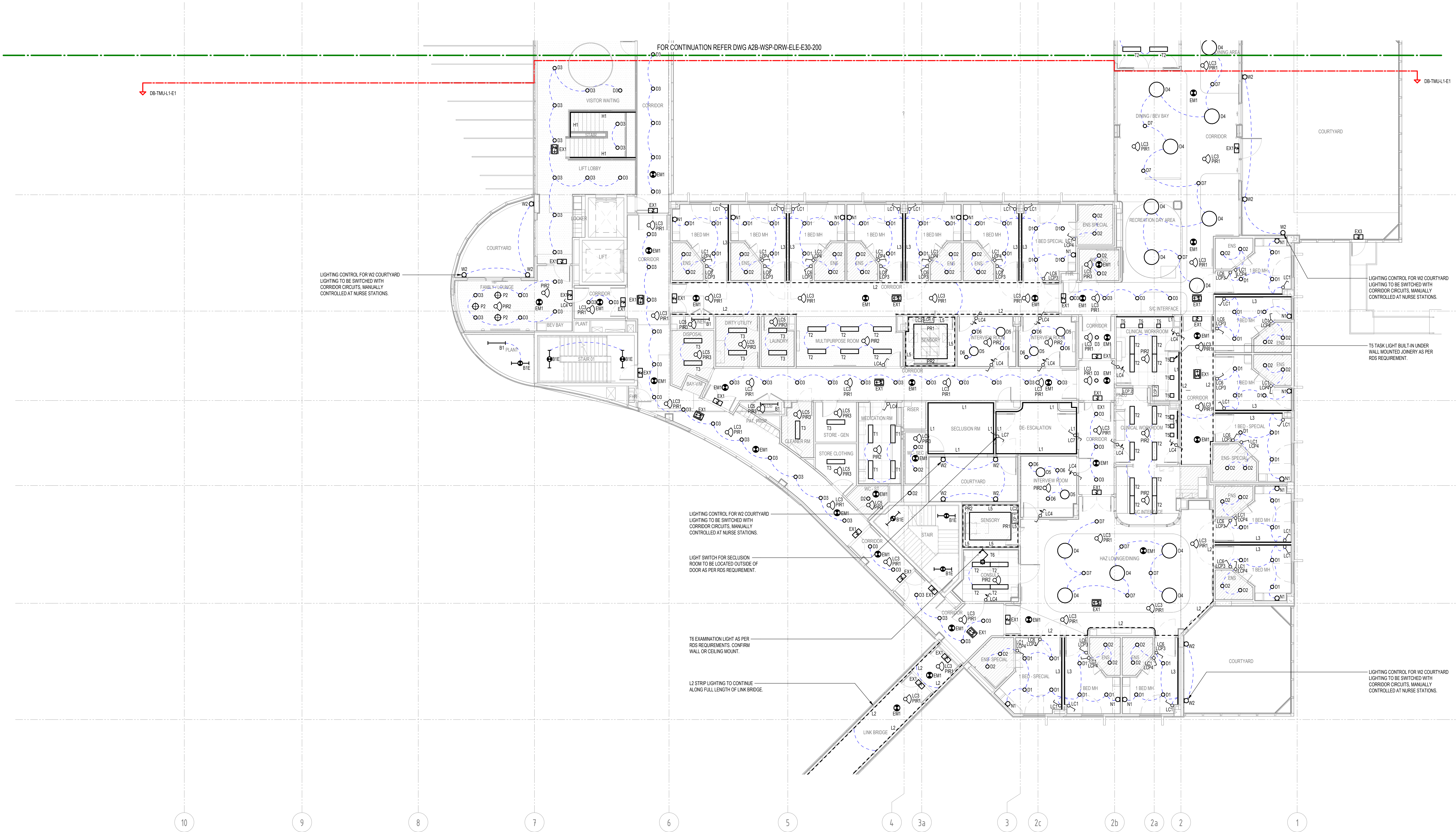


ARCHITECT:

ING LAYOUT PART 2 - LEVEL 02

PS123315	RT	NOV 2022
DRAWING No.		REV.

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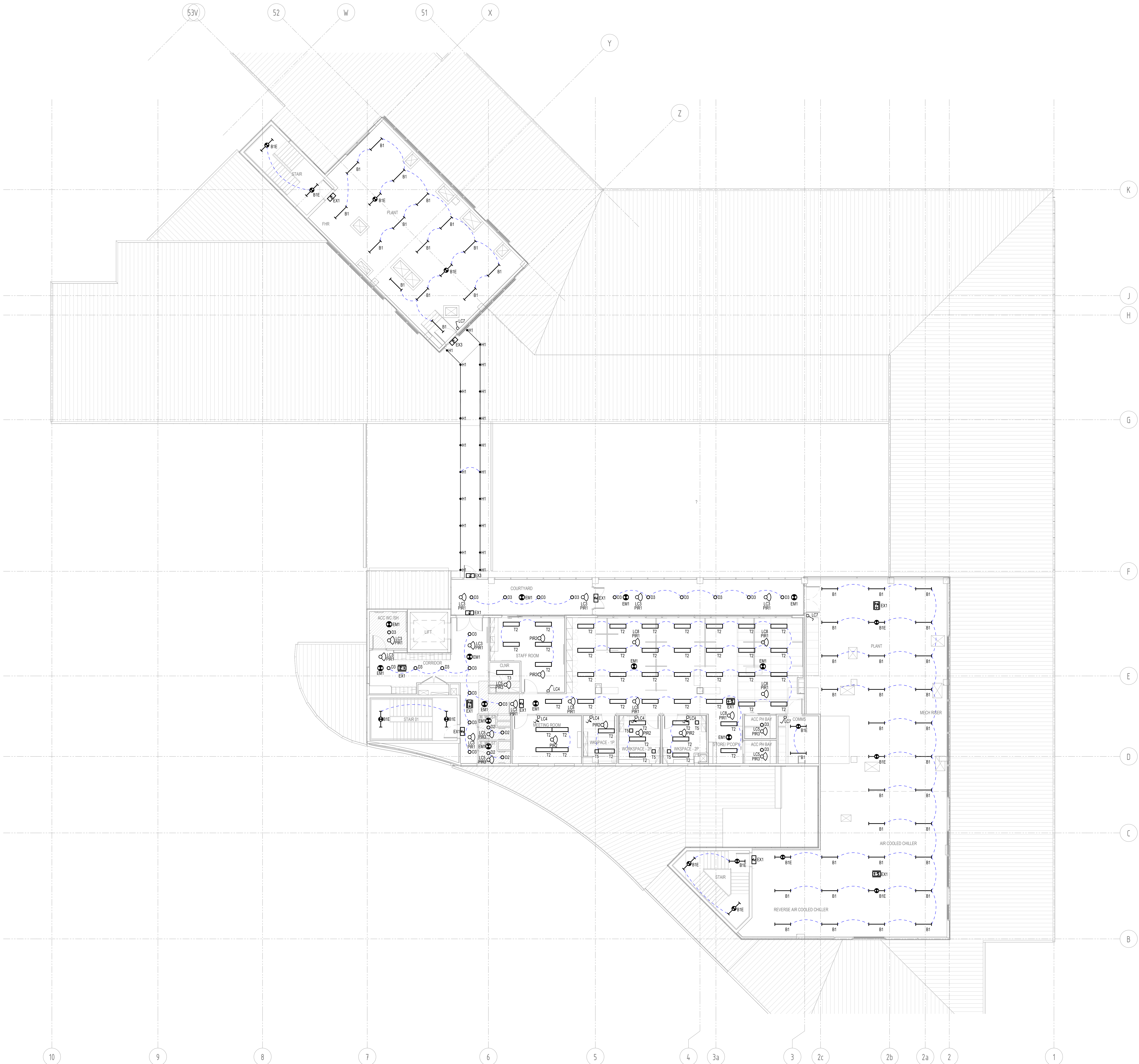




GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- ALL LIGHTING HAS BEEN DESIGNED IN ACCORDANCE WITH RECOMMENDATION IN AS/NZS 1680.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- FOR ALL LUMINAIRE TYPES AND SPECIFICATIONS REFER TO THE LUMINAIRE SCHEDULE.
- FOR LIGHTING CONTROL TYPES (LCH) REFER TO LIGHTING CONTROL SCHEDULE ON DRAWING DRW-ELE-E10-001.
- PROVIDE LIGHTING CONTROL SYSTEM DESIGN AND PROGRAMMING TO MEET THE REQUIREMENTS AS SHOWN ON THE DRAWINGS AND IN THE LIGHTING CONTROL SCHEDULE.
- THE LIGHTING CONTROL SYSTEM IS TO BE KNX DALI. ALL LUMINAIRES TO BE CONTROLLED BY KNX SENSOR, MANUAL SWITCHES AND LIGHTING CONTROL PANELS. ALL NECESSARY KNX COMPONENTS TO BE PROVIDED AS REQUIRED TO COMPLETE THE WORKS AND PROVIDE THE SPECIFIED FUNCTIONALITY.
- LIGHTING CONTROL TO BE COMMISSIONED BY AN INTEGRATOR TRAINED IN THE SPECIFIC KNX DALI CONTROL PROTOCOL. ALL SETTINGS, INCLUDING DIMMING LEVELS, TO BE SET ON SITE WITH LIGHTING DESIGNER, CLIENT, END USERS AND ARCHITECT. ALLOW FOR ONE ADDITIONAL COMMISSIONING SESSION APPROXIMATELY FOUR WEEKS AFTER HANDOVER TO ADJUST SETTINGS BASED ON CLIENT COMMENTS.
- ALL WIRING TO BE INSTALLED AS PER KNX TECHNICAL STANDARD (ISO/IEC 14543.3.1), DALI STANDARD (IES 62386) AND ALL LOCAL ELECTRICAL REGULATIONS.
- W2 COURTYARD LIGHTING TO BE MANUALLY CONTROLLED VIA LCP2 CONTROL PANEL IN STAFF ROOM.
- B1 SUSPENDED BATTENS SHOWN IN PLANT ROOM. REVERSED AIR COOLED CHILLER AND AIR COOLED CHILLER TO BE COORDINATED WITH MECHANICAL SERVICES EQUIPMENT

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.



REV	DATE	BY	DESCRIPTION	CHK	APP
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<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

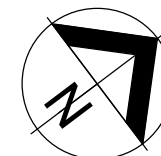
ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
LIGHTING LAYOUT - LEVEL 03

SCALE @ A1: 1:100
PROJECT NUMBER: PS123315
DRAWING NO: A2B-WSP-DRW-ELE-E30-300

DATE: NOV 2022
REV: A



GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- ALL FAIL SECURE DOORS SHALL BE CONFIRMED BY LHD SECURITY AND BCA PRIOR TO PROGRAMMING. CONSULT LHD SECURITY REGARDING SITE OPERATION AND LOCKDOWN PROCEDURES PRIOR TO PROGRAMMING THE SYSTEM.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

REV	DATE	BY	DESCRIPTION	CHK	APP
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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES SECURITY LAYOUT - LEVEL 01

SCALE & NO	1:100	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	PS12315	DRAWN	AA	DATE	NOV 2022
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DRAWING NO	A2B-WSP-DRW-ELE-E40-100	REV	A
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GENERAL NOTES:

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- ACCESS CONTROL OF THIS DOOR WILL BE FREE ENTRY/EXIT DURING DAY TIME AND OUTSIDE CONTROL ONLY DURING NIGHT TIME.



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES

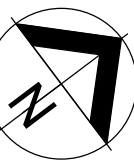
SECURITY LAYOUT PART 1 - LEVEL 02

SCALE @ A1	1:100	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	PS123315	DRAWN	AA	DATE	NOV 2022
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DRAWING NO.	A2B-WSP-DRW-ELE-E40-200	REV	A
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GENERAL NOTES:

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- ACCESS CONTROL OF THIS DOOR WILL BE FREE ENTRY/EXIT DURING DAY TIME AND OUTSIDE CONTROL ONLY DURING NIGHT TIME.

FOR CONTINUATION REFER DWG A2B-WSP-DRW-ELE-E40-200

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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES
SECURITY LAYOUT PART 1 - LEVEL 02

SCALE @ A1	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	DRAWN	DATE
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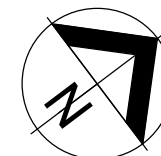
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A2B-WSP-DRW-ELE-E40-201

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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

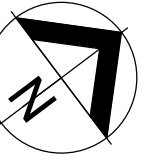
TITLE: ELECTRICAL SERVICES SECURITY LAYOUT - LEVEL 03

SCALE @ A1: 1:100

PROJECT NUMBER: PS123315

DRAWING NO: A2B-WSP-DRW-ELE-E40-300

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.

1 x 600mm CABLE TRAY FOR POWER CABLES (NORMAL)
1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

600mm CABLE TRAY FOR COMMS CABLES

600mm CABLE TRAY FOR COMMS CABLES

1000 x 100mm ELECTRICAL RISER FOR CABLES TO BE RETICULATED AT HIGH LEVEL AND RISE TO ELECTRICAL CLIPBOARD ABOVE IN LEVEL 2

1 x 600mm CABLE TRAY FOR POWER CABLES (NORMAL)
1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

700 x 350mm COMMS RISER FOR CABLES TO LEVEL 2 AND LEVEL 3 ABOVE

2 x 600mm CABLE TRAY FOR COMMS/SECURITY/NURSE CALL CABLES

700 x 350mm COMMS RISER FOR CABLES TO BE RETICULATED AT HIGH LEVEL AND RISE TO COMMS ROOM ABOVE IN LEVEL 2

2 x 600mm CABLE TRAY FOR COMMS/SECURITY/NURSE CALL CABLES FROM MAIN COMMS ROOM TO LEVEL 2 ABOVE

2 x 600mm CABLE TRAY FOR COMMS/SECURITY/NURSE CALL CABLES FROM MAIN COMMS ROOM TO LEVEL 2 ABOVE

1 x 600mm CABLE TRAY FOR POWER CABLES (NORMAL)
1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

1 x 300mm CABLE TRAY FOR POWER CABLES (NORMAL)

1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

200 kVA STANDBY DIESEL GENERATOR BASED ON CUMMINS MODEL C220D5c. REFER TO DRW-ELE-E10-001 FOR GENERATOR DETAIL. TBC

1 x 300mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

1200 L FUEL TANK

1 x 600mm CABLE TRAY FOR POWER CABLES (NORMAL)
1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLES (ESSENTIAL)

1000 x 100mm ELECTRICAL CABLES TO BE RETICULATED AT HIGH LEVEL AND RISE TO ELECTRICAL CLIPBOARD ABOVE IN LEVEL 2

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

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<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
CABLE RETICULATION LAYOUT - LEVEL 01

SCALE @ A1: 1:100

PROJECT NUMBER: PS12315

DRAWING NO: A2B-WSP-DRW-ELE-E50-100

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.



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REV	DATE	BY	DESCRIPTION	CHK	APP
A	22/02/2023	BM	DRAFT DETAIL DESIGN	SK	SK

DRAWING STATUS: DRAFT DETAIL DESIGN



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

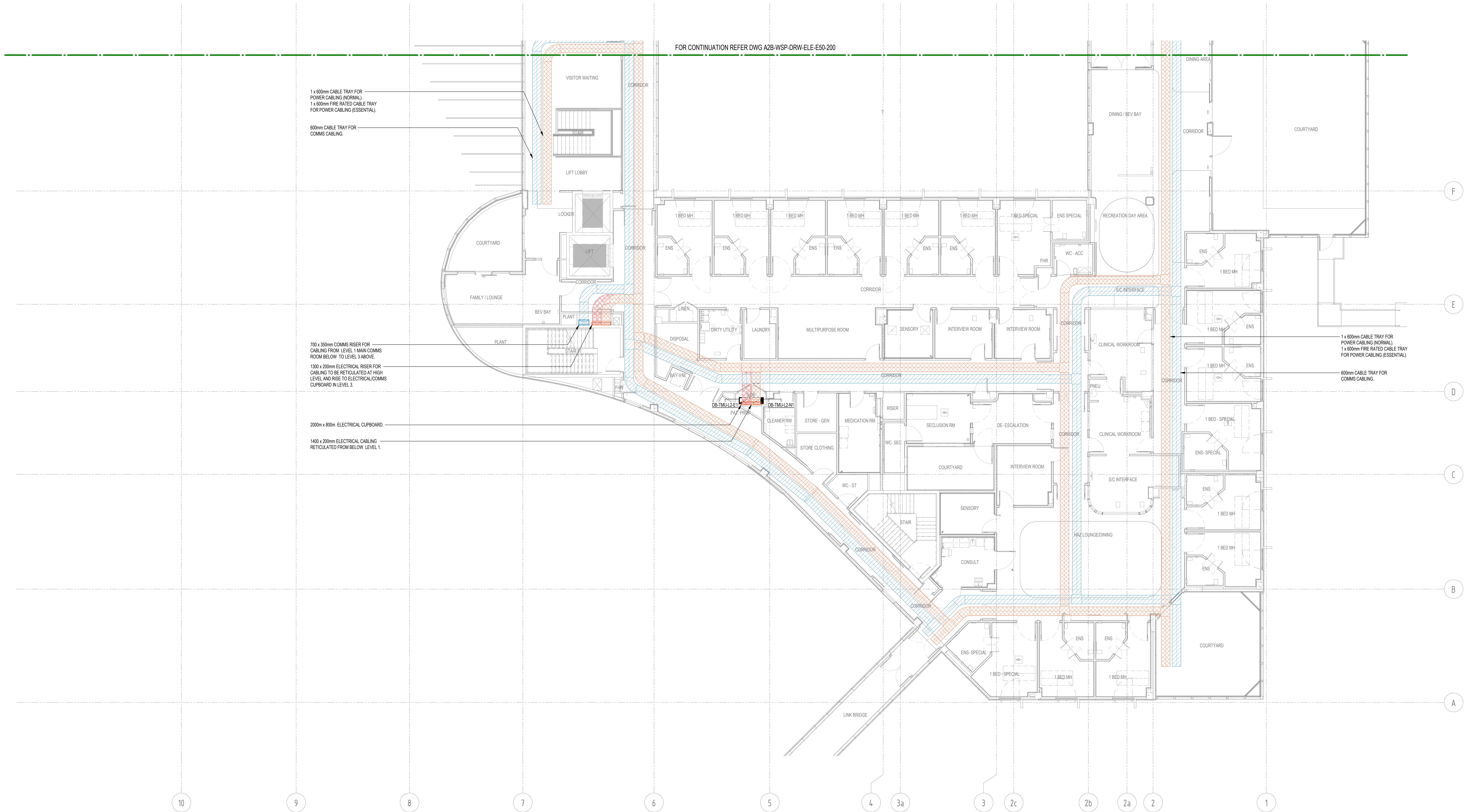
TITLE: ELECTRICAL SERVICES
CABLE RETICULATION LAYOUT PART 1 - LEVEL 02

SCALE @ A4: 1:100	DRAWN: AL	DATE: NOV 2022
PROJECT NUMBER: PS123315	DESIGNED: SK	APPROVED: SK

DRAWING NO: A2B-WSP-DRW-ELE-E50-200

1. FOR LEGEND AND SYMBOLS REFER TO
DRW-ELE-E10-001.

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
3. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
4. ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
5. COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.



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A	24.02.2023	BM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

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HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

AMWORTH MENTAL HEALTH UNIT

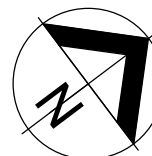
TITLE:

ELECTRICAL SERVICES
CABLE RETICULATION LAYOUT PART 2 - LEVEL 02

SCALE @ A0: 1:100	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022
DRAWING NO.:		REV:

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GENERAL NOTES:

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CLIENT: HEALTH INFRASTRUCTURE

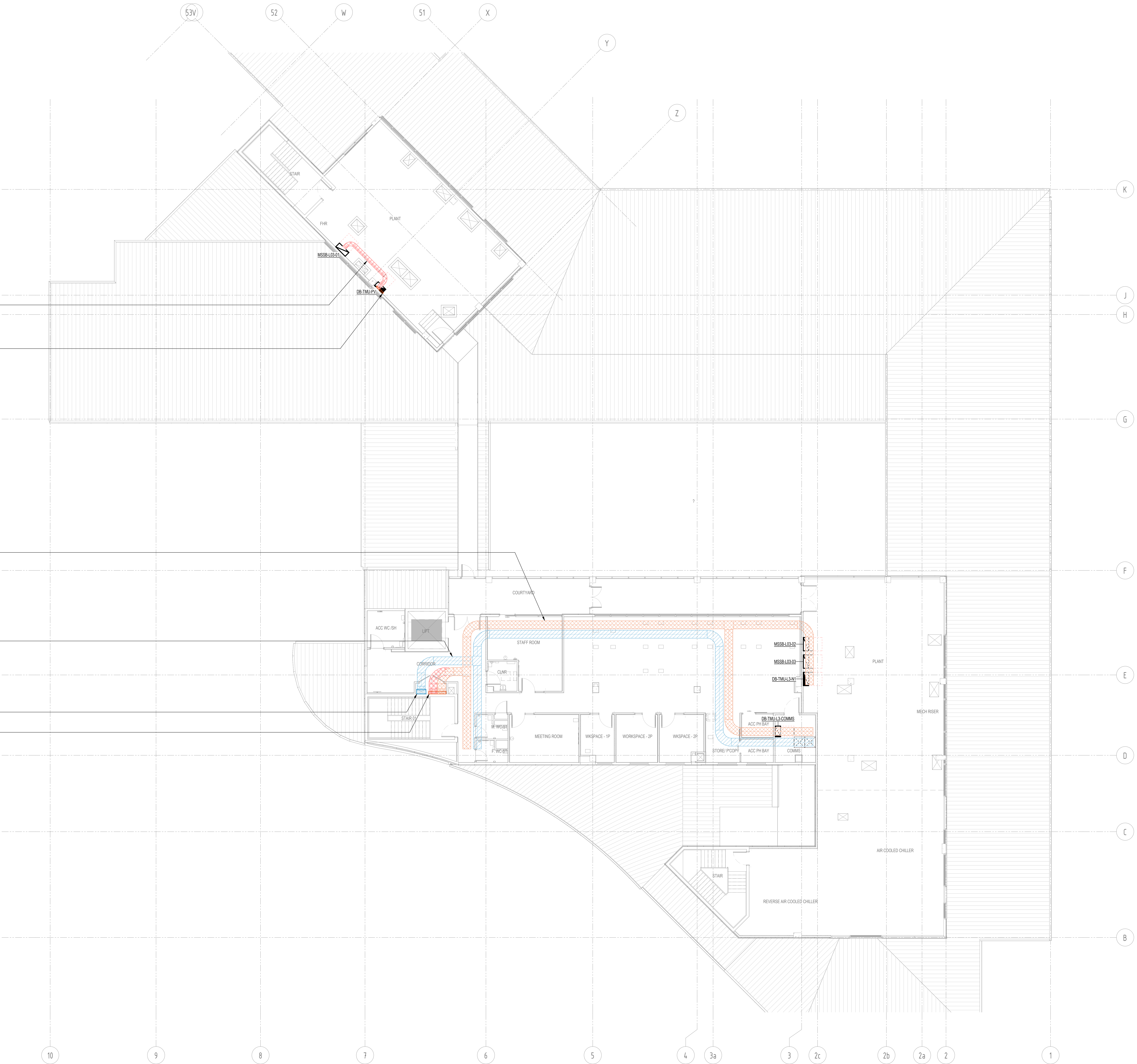
ARCHITECT: SILVER THOMAS HANLEY

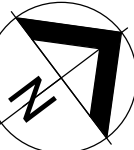
PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
CABLE RETICULATION LAYOUT - LEVEL 03

SCALE @ A1: 1:100	DRAWN: SK	APPROVED: SK
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022
DRAWING NO: A2B-WSP-DRW-ELE-E50-300	REV: A	

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GENERAL NOTES:

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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES
NURSE CALL LAYOUT - LEVEL 01

SCALE & NO	1:100	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	PS123315	DRAWN	AL	DATE	NOV 2022
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DRAWING NO	A2B-WSP-DRW-ELE-E60-100	REV	A
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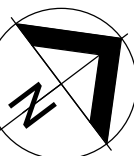
GENERAL NOTES:

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REV	DATE	BY		DESCRIPTION		CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN							
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SILVER THOMAS HANLEY							
TAMWORTH MENTAL HEALTH UNIT							
ELECTRICAL SERVICES							
NURSE CALL LAYOUT PART 1 - LEVEL 02							
SCALE @ A1:		CHECKED		SK		APPROVED SK	
1:100							
PROJECT NUMBER:		DRAWN		DATE		NOV 2022	
PS123315		AL					
DRAWING NO: A2B-WSP-DRW-ELE-E60-200						REV: A	
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FOR CONTINUATION REFER DWG A2B-WSP-DRW-ELE-E60-200



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
NURSE CALL LAYOUT PART 1 - LEVEL 02

SCALE @ A1	DRAWN	SK	APPROVED	SK
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PROJECT NUMBER	DRAWN	AL	DATE	NOV 2022
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DRAWING NO	A2B-WSP-DRW-ELE-E60-201	REV	A
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1. FOR LEGEND AND SYMBOLS REFER TO
DWG-ELE-001.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH
ALL OTHER ELECTRICAL DRAWINGS AND THE
SPECIFICATION.
3. DRAWING TO BE READ IN CONJUNCTION WITH
ARCHITECTURAL AND OTHER SERVICES
DRAWINGS.
4. ALL WORKS TO BE DONE IN ACCORDANCE WITH
ASINZS 3000.
5. COORDINATE FINAL LOCATIONS OF ALL
ELECTRICAL EQUIPMENT WITH OTHER TRADES ON
SITE. REFER TO ARCHITECTURAL, MECHANICAL
AND FIRE DOCUMENTATION AS APPROPRIATE.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	24.02.2023	BIM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

ASPD

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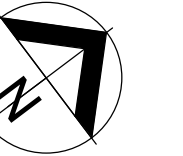
ARCHITECT: SILVER THOMAS HANLEY

TITLE: ELECTRICAL SERVICES
NURSE CALL LAYOUT - LEVEL 03

SCALE @ A0: 1:100	CHECKED: SK	APPROVED: SK
PROJECT NUMBER: 20-1000000	DRAWN: SK	DATE: 10/10/2000

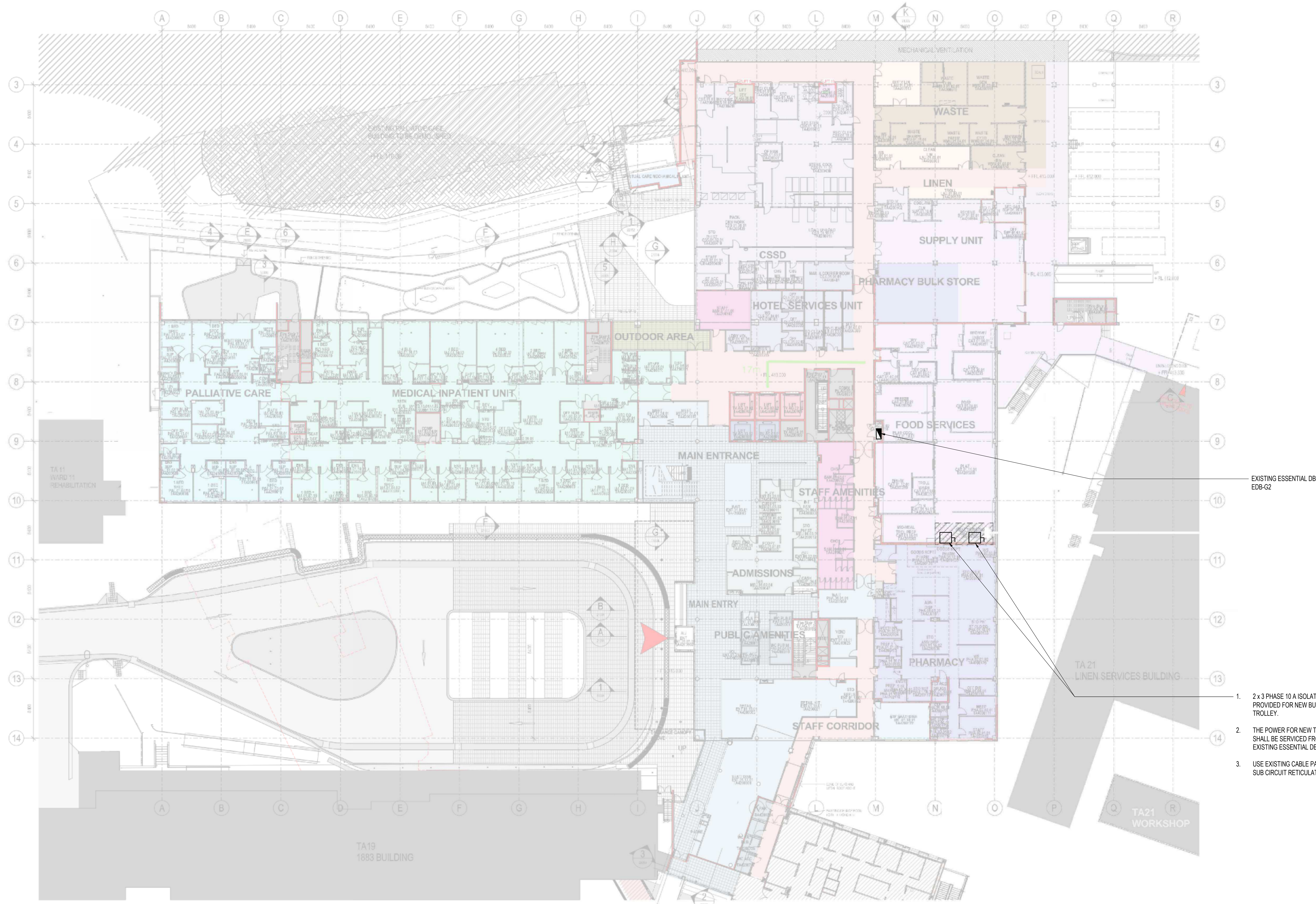
A2B-WSP-DRW-ELE-E60-300

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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.

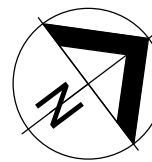


EXISTING ESSENTIAL DB EDB-G2

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

- 2 x 3 PHASE 10 A ISOLATOR TO BE PROVIDED FOR NEW BURLODGE TROLLEY.
- THE POWER FOR NEW TROLLEYS SHALL BE SERVICED FROM EXISTING ESSENTIAL DB EDB-G2.
- USE EXISTING CABLE PATH FOR SUB CIRCUIT RETICULATION.

REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
 Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: ELECTRICAL SERVICES GROUND FLOOR - ASB ELECTRICAL SERVICES LAYOUT					
SCALE & UNIT: NTS		DESIGNED: SK		APPROVED: SK	
PROJECT NUMBER: PS123315		DRAWN: AL		DATE: NOV 2022	
DRAWING NO: A2B-WSP-DRW-ELE-E70-100				REV: A	
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GENERAL NOTES:

- FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS AND THE SPECIFICATION.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.

NOTE:

- CONTRACTOR TO ADD CCTV CAMERA AT LEVEL 1. FINAL LOCATION TO BE CONFIRMED.

NOTE: THIS DRAWING HAS BEEN PRODUCED WITH THE INTENTION OF BEING VIEWED IN A COLOUR FORMAT FOR THE PURPOSE OF CLARITY. DO NOT COPY OR PRINT TO BLACK AND WHITE.

A	2022-02-01	RM	DRAFT DETAIL DESIGN	SK	SK
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS:
DRAFT DETAIL DESIGN



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: ELECTRICAL SERVICES
LEVEL 2 - ASB ELECTRICAL SERVICES LAYOUT

SCALE @ A1	NTS	CHECKED	SK	APPROVED	SK
PROJECT NUMBER	PS123315	DRAWN	AL	DATE	NOV 2022

DRAWING NO:	A2B-WSP-DRW-ELE-E70-200	REV	A
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TAMWORTH MENTAL HEALTH UNIT

MECHANICAL SERVICES

PREPARED BY



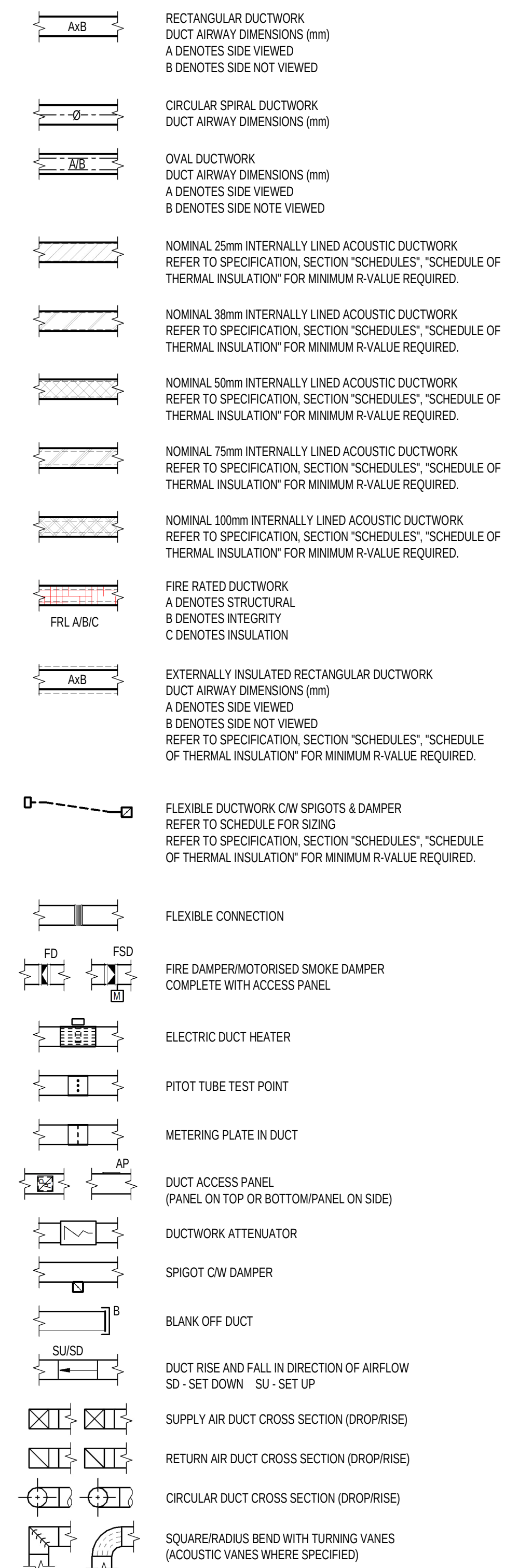
MECHANICAL DRAWING INDEX

A2B-WSP-DRW-MEH-M10-000	COVER PAGE AND DRAWING INDEX
A2B-WSP-DRW-MEH-M10-001	LEGEND OF SYMBOLS AND GENERAL NOTES
A2B-WSP-DRW-MEH-M10-010	TYPICAL DETAILS
A2B-WSP-DRW-MEH-M10-011	TYPICAL DETAILS
A2B-WSP-DRW-MEH-M10-020	AIR SCHEMATIC - SHEET 1
A2B-WSP-DRW-MEH-M10-021	AIR SCHEMATIC - SHEET 2
A2B-WSP-DRW-MEH-M10-022	CHILLED WATER SCHEMATIC - SHEET 1
A2B-WSP-DRW-MEH-M10-023	CHILLED WATER SCHEMATIC - SHEET 2
A2B-WSP-DRW-MEH-M10-024	HEATING HOT WATER SCHEMATIC - SHEET 1
A2B-WSP-DRW-MEH-M10-025	HEATING HOT WATER SCHEMATIC - SHEET 2
A2B-WSP-DRW-MEH-M20-100	HVAC LAYOUT - LEVEL 1
A2B-WSP-DRW-MEH-M20-200	HVAC LAYOUT PART 1 - LEVEL 2
A2B-WSP-DRW-MEH-M20-201	HVAC LAYOUT PART 2 - LEVEL 2
A2B-WSP-DRW-MEH-M20-300	HVAC LAYOUT - LEVEL 3

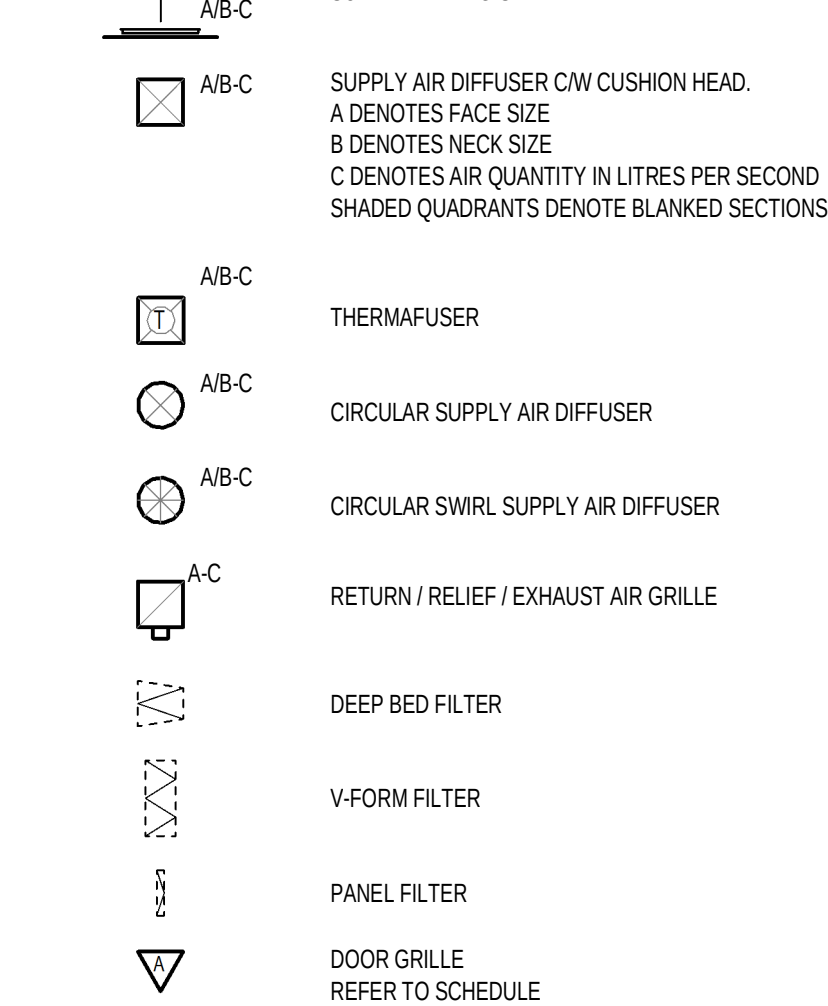
A	12.02.2022	SD	DRAFT DETAIL DESIGN	MS	KC
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
 Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: MECHANICAL SERVICES COVER PAGE AND DRAWING INDEX					
SCALE: B 8 A1		CHECKED: NTS	DESIGNED: KC	APPROVED: KC	
PROJECT NUMBER: PS123315		DRAWN: CD	DATE: NOV 2022		
DRAWING NO: A2B-WSP-DRW-MEH-M10-000				REV: A	
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LEGEND OF SYMBOLS

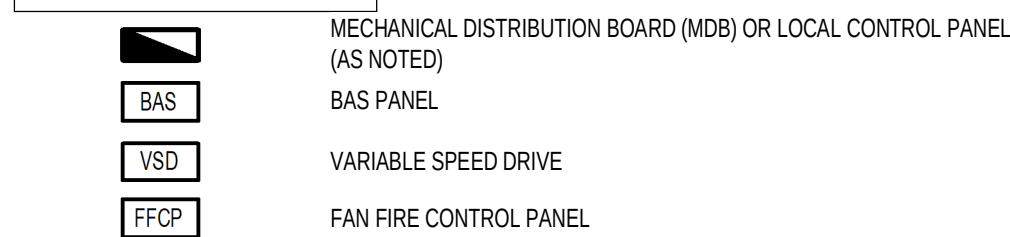
DUCTWORK



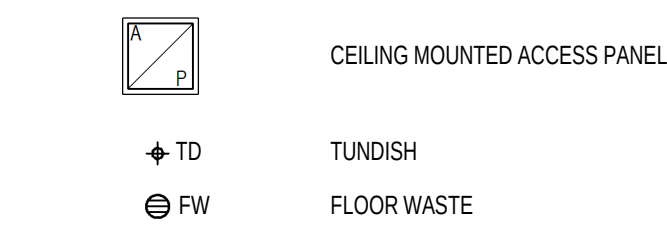
AIR DISTRIBUTION



ELECTRICAL/CONTROLS



WORKS-IN-CONNECTION (BY OTHERS)



NOTE RELATED TO OTHER TRADE CONTRACTOR

TENANCY LINE-TYPE SCHEDULE

NEW

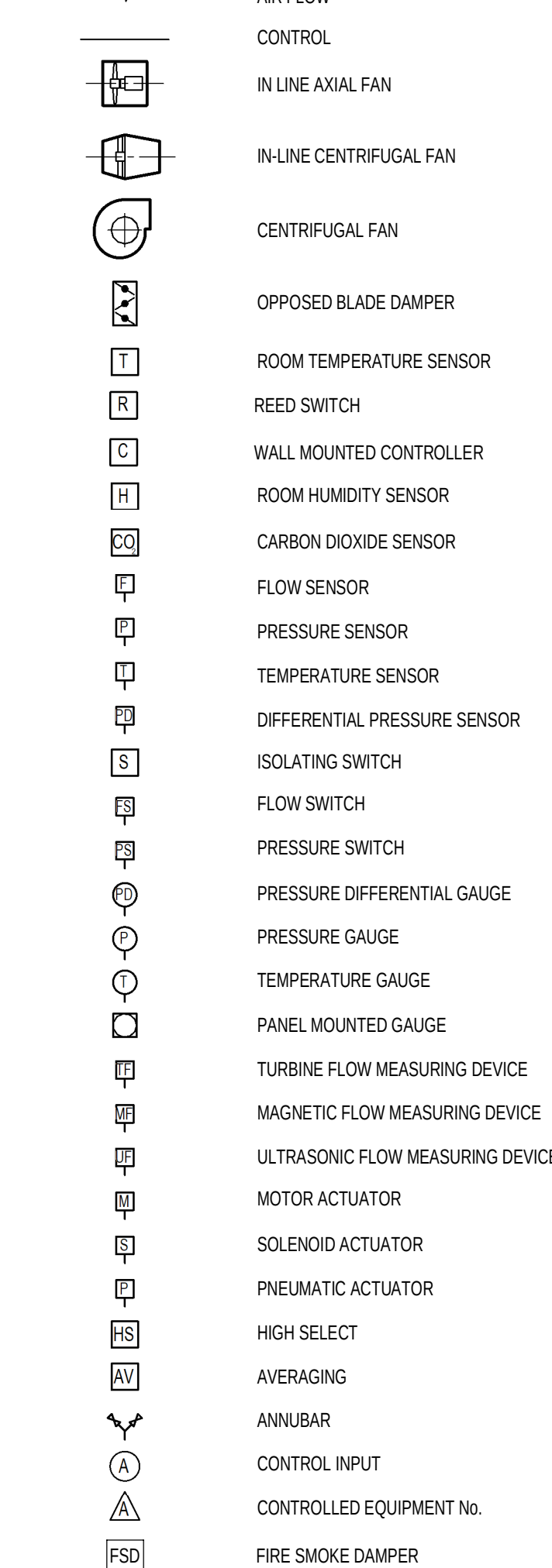
FLEXIBLE DUCT SCHEDULE

SIZE (mm)	AIR QUANTITY RANGE (L/s)
Ø150	0 - 40
Ø200	41- 85
Ø250	86 - 140
Ø300	141 - 230
Ø350	231 - 320
Ø400	321 - 440
Ø450	441 - 550
Ø500	561 - 700

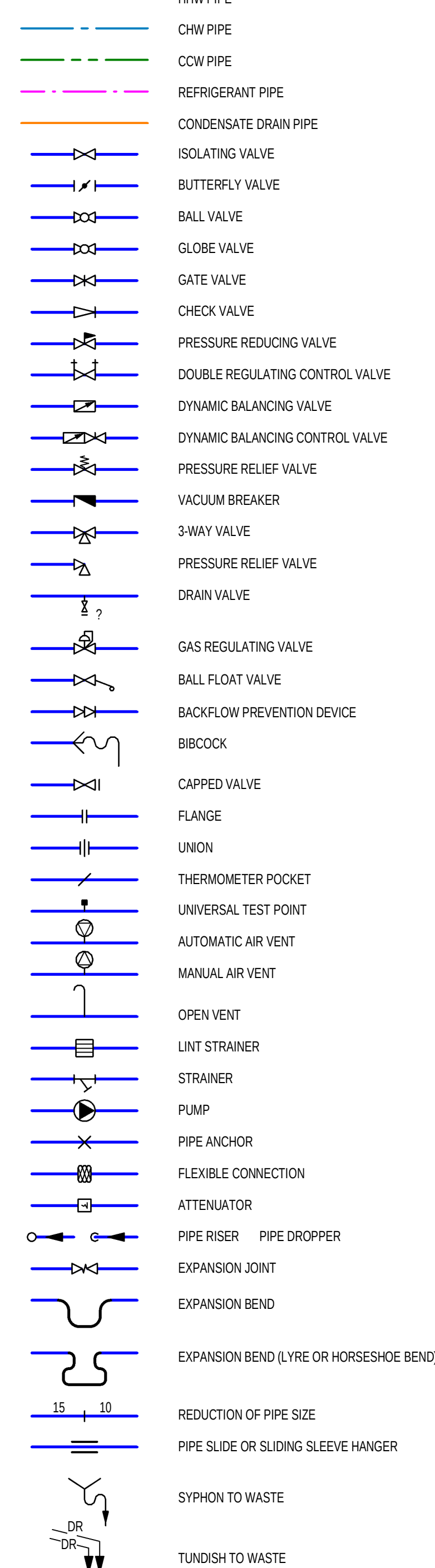
DOOR GRILLE SCHEDULE

TYPE	DIMENSION (NOM)	Us
A	600x150	0 - 90
B	600x200	91 - 110
C	600x250	111 - 130
D	600x300	131 - 170
E	600x450	171 - 250
F	600x600	251 - 325
G	300x150	0 - 40
U	25mm UNDERCUT	-

SYSTEM SCHEMATIC/OSC

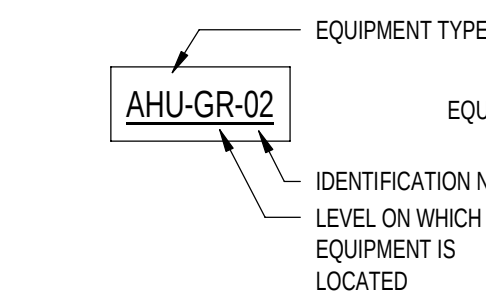


PIPEWORK



NOMENCLATURE (GENERAL)

ESSENTIAL	ESSENTIAL SERVICES/STANDBY POWER/NORMAL
FSO/FS	FAIL SAFE OPEN/FAIL SAFE CLOSED
NONC	NORMALLY OPEN/NORMALLY CLOSED
MOD/OP	MODULATING/TWO POSITION
L	LOCKABLE
FR	FLOW/RETURN (SUPPLY)
P/S	PRIMARY/SECONDARY (PREFIX)
NDR	NEW/DELETED/RELOCATED
SP	SETPOINT
LIM.O.	UNLESS NOTED OTHERWISE
T/A	TO ABOVE
T/B	TO BELOW
F/A	FROM ABOVE
F/B	FROM BELOW
CW	COMPLETE WITH
VSD	VARIABLE SPEED DRIVE



NOMENCLATURE (AIR SIDE)

ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AHU	AIR HANDLING UNIT
ARO	AIR RELIEF OUTLET (CEILING)
ATT	SOUND ATTENUATOR
CU	CONDENSING UNIT
EAG	EXHAUST AIR GRILLE
EDH	ELECTRIC DUCT HEATER
EA	EXHAUST AIR
FCU	FAN COIL UNIT
GE	GENERAL EXHAUST
GEF	GENERAL EXHAUST FAN
KEF	KITCHEN EXHAUST FAN
OA	OUTSIDE AIR
ONE	OUTSIDE AIR FAN
OAL	OUTSIDE AIR LOUVER
RA	RETURN AIR
RBF	RETURN AIR FAN
RAG	RETURN AIR GRILLE
RF	RELIEF AIR FAN
SA	SUPPLY AIR
SAF	SUPPLY AIR FAN
SAD	SUPPLY AIR DIFFUSER
SD	SNOKE DAMPER
TE	TOILET EXHAUST
TEF	TOILET EXHAUST FAN
V	VENT
VAV	VARIABLE AIR VOLUME BOX

NOMENCLATURE (WATER SIDE)

CHW	CHILLED WATER
CWFT	CHILLED WATER FEED & EXPANSION TANK
CHP	CHILLED WATER PUMP
CHR	CHILLER
CW	COLD WATER
CC	COOLING COIL
D	DRAIN
FW	FILTERED WATER
HHW	HEATING HOT WATER
HWB	HEATING WATER BOILER
HWFT	HEATING HOT WATER FEED & EXPANSION TANK
HWP	HEATING WATER PUMP

NOTES:

- ATTENUATION SHALL BE PROVIDED TO MEET THE ACOUSTIC REQUIREMENTS. PROVIDE EQUIPMENT SCHEDULES AND LAYOUTS FOR ACOUSTIC REVIEW.
- MECHANICAL CONTRACTOR TO PROVIDE ELECTRICAL LOADS FOR ELECTRICAL CONTRACTOR.
- ALL DUCTS AND DIFFUSERS TO BE COMPLETED WITH VCD'S.
- ALL DIFFUSER QUANTITIES ARE INDICATIVE. FINAL LOCATION AND QUANTITIES TO BE COMPLETED BY CONTRACTOR. DIFFUSERS ARE TO BE FLUSH MOUNTED ANTI-LIGATURE CONSTRUCTION.
- TOILET EXHAUST GRILLES TO BE PROVIDED WITH NON RETURN DAMPERS.
- FIRE SEALS, FIRE DAMPERS AND FIRE SMOKE DAMPERS TO BE INSTALLED AS PER THE ARCHITECTURAL CONTAINMENT PLANS.
- FINAL ACCESS PANEL LOCATIONS AND QUANTITIES TO BE ACCESSED DURING DETAILED DESIGN BY CONTRACTOR.
- ALL DUCT SIZES ARE INTERNAL CLEAR AIR FLOW SIZE AND DO NOT ACCOUNT FOR INTERNAL OR EXTERNAL INSULATION. FINAL SIZES ARE TO BE DEVELOPED BY CONTRACTOR BASED ON FINAL UNIT SELECTIONS.
- ACCESS PANELS ARE TO BE LOCATED OUTSIDE OF PATENT ZONES WHERE POSSIBLE. WHERE ACCESS PANELS ARE INSTALLED, THEY ARE TO BE FLUSH MOUNTED ANTI-LIGATURE CONSTRUCTION.
- WHERE ACCESS PANELS ARE IN PATIENT ZONES TO BE TEMPORARY FOR COMMISSIONING PURPOSES. ONCE COMMISSIONING IS COMPLETE ACCESS PANELS ARE TO BE REMOVED AND PLASTERED OVER.
- WHERE ACCESS PANEL FOR FIRE SMOKE DAMPERS ARE REQUIRED IN PATIENT ZONES, THEY ARE TO BE FLUSH MOUNTED ANTI-LIGATURE CONSTRUCTION.
- FINAL TUNISH LOCATIONS TO BE COORDINATED WITH HYDRAULIC CONSULTANT AND ARCHITECT.
- SERVICES RETICULATION ROUTES ARE INDICATIVE. FINAL DUCT RETICULATION AND SERVICES COORDINATION BY CONTRACTOR.

A	24.02.2023	SO	DRAFT DETAIL DESIGN	MS	KC
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAFT DETAIL DESIGN



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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: MECHANICAL SERVICES
LEGEND OF SYMBOLS AND GENERAL NOTES

SCALE @ 10	NTS	CHECKED: KC	APPROVED: KC
PROJECT NUMBER: PS123315	DRAWN: CD	DATE: NOV 2022	

DRAWING No: A2B-WSP-DRW-MEH-M10-001	REV: A
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ROOF DISCHARGE COWL WITH FLASHING
N.T.S.

ROOF MOUNTED EXHAUST FAN INSTALLATION ON CONCRETE ROOF
N.T.S.

ROOF MOUNTED SUPPLY OR EXHAUST FAN INSTALLATION DETAIL
N.T.S.

SUPPLY AIR DIFFUSER AND CUSHION HEAD DETAIL
N.T.S.

DETAIL OF STANDARD FIRE DAMPER
N.T.S.

NOTE

1. REFER TO LAYOUT DRAWINGS FOR DUCTWORK LAYOUT ARRANGEMENT.
2. REFER TO SPECIFICATION FOR VAV BOX CONSTRUCTION AND NOISE REQUIREMENTS.

NOTES:

1. BRACKETS ARE SIZED FOR 3600mm DUCT MAXIMUM;
2. LOCATE DUCTS AGAINST THE WALL OR MAXIMUM OF 50mm AWAY FROM WALL.
3. SIZE ANCHORS BASED ON DUT WEIGHT, TENSILE & SHEAR LOAD;
4. MINIMUM OF 3 FASTENERS ON 600mm WIDTH AND UP; AND
5. COORDINATE RISER PENETRATIONS WITH THE STRUCTURAL ENGINEER.

FCU MOUNTING DETAIL
N.T.S.

TYPICAL AIR HANDLING UNIT DETAIL
N.T.S.

AXIAL FAN SUPPORT DETAIL
N.T.S.

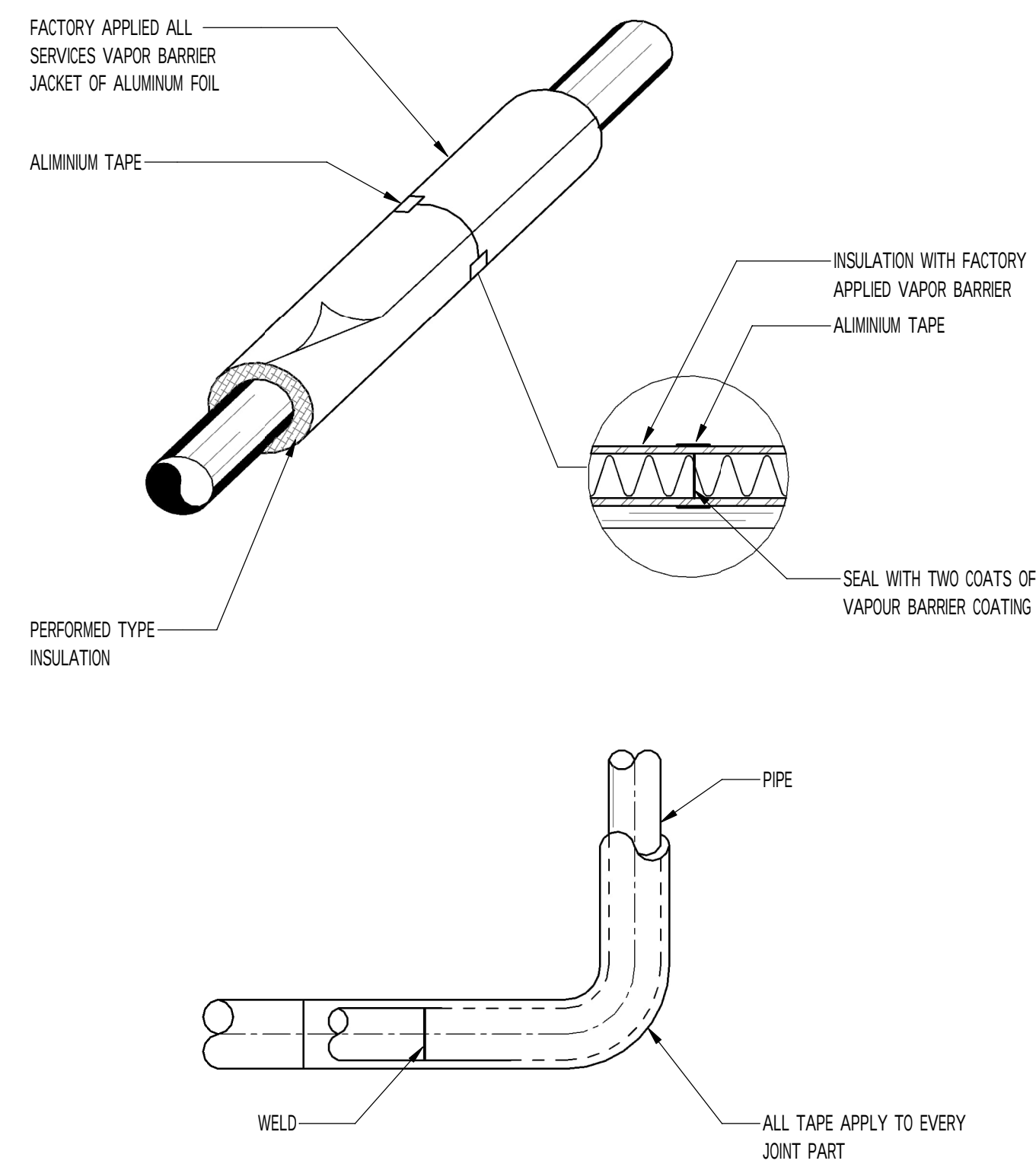
CONDENSATE TRAP DRAINAGE DETAIL(TYPICAL)
1 : 100

TYPICAL DOSING POT
1 : 100

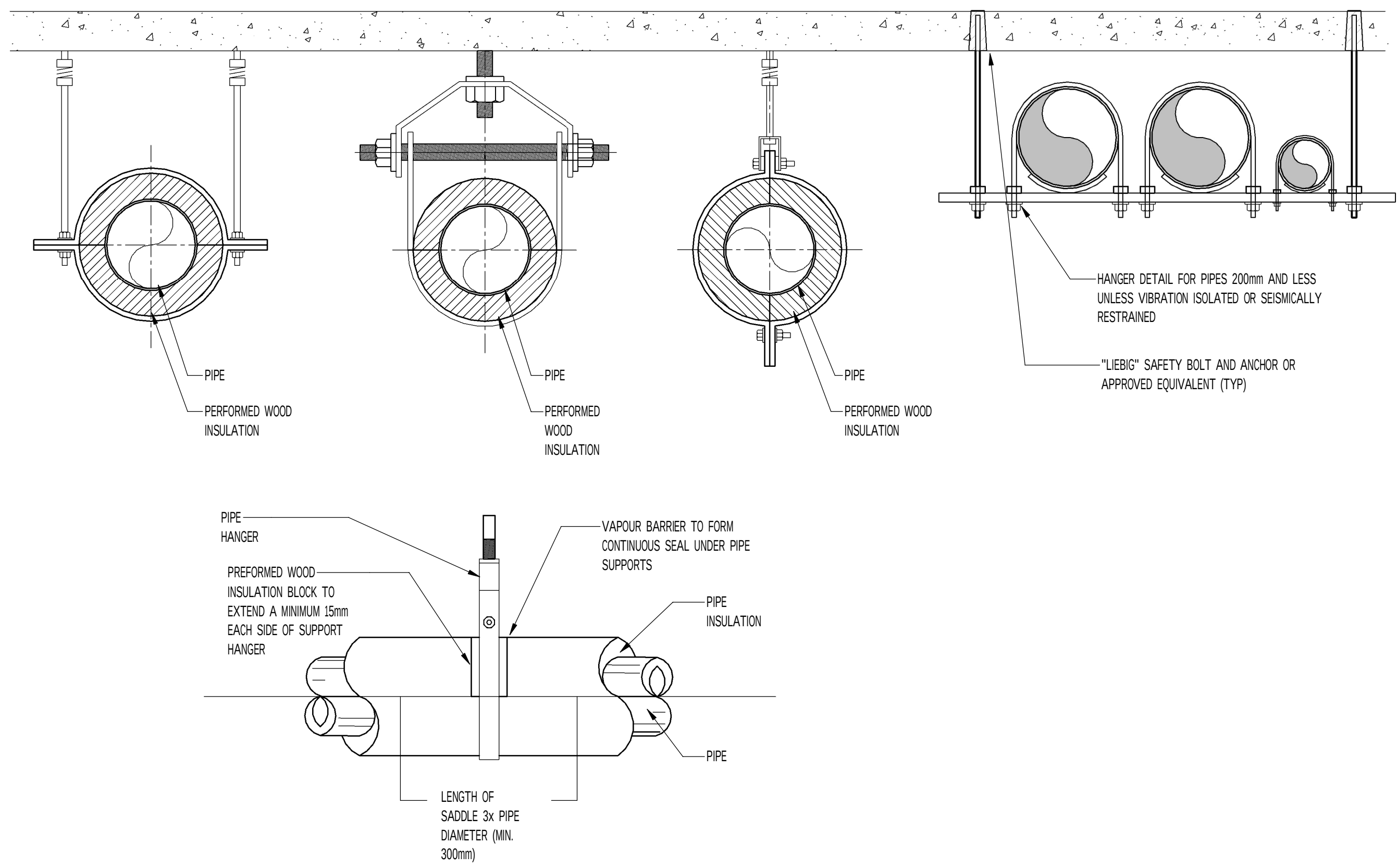
AXIAL FLOW FAN ON ROOF PLATFORM DETAIL
N.T.S.

AXIAL FLOW FAN WITH SILENCER DETAIL
N.T.S.

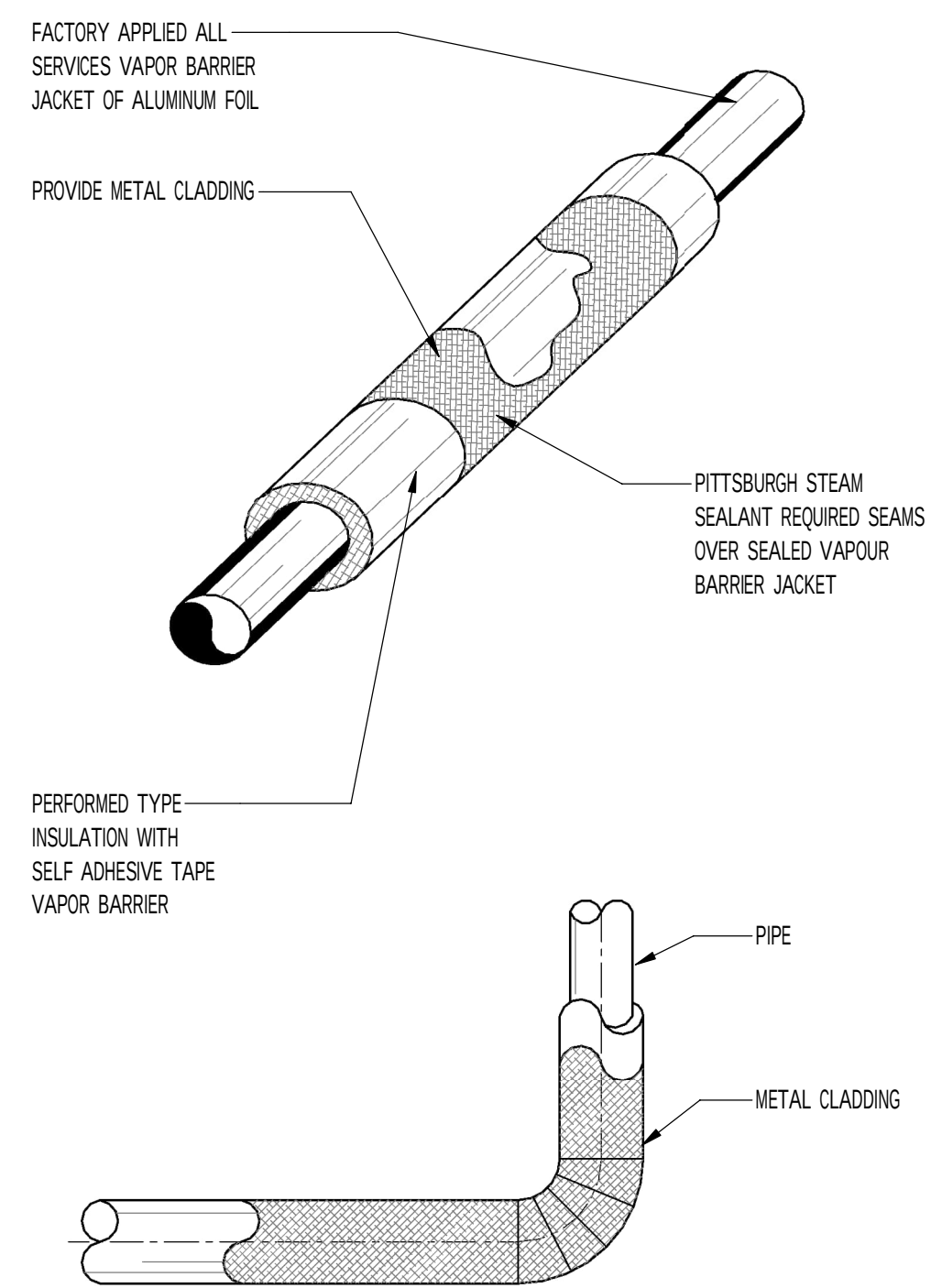
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PIPE INSULATION (CONCEALED AREA) DETAIL
N.T.S.



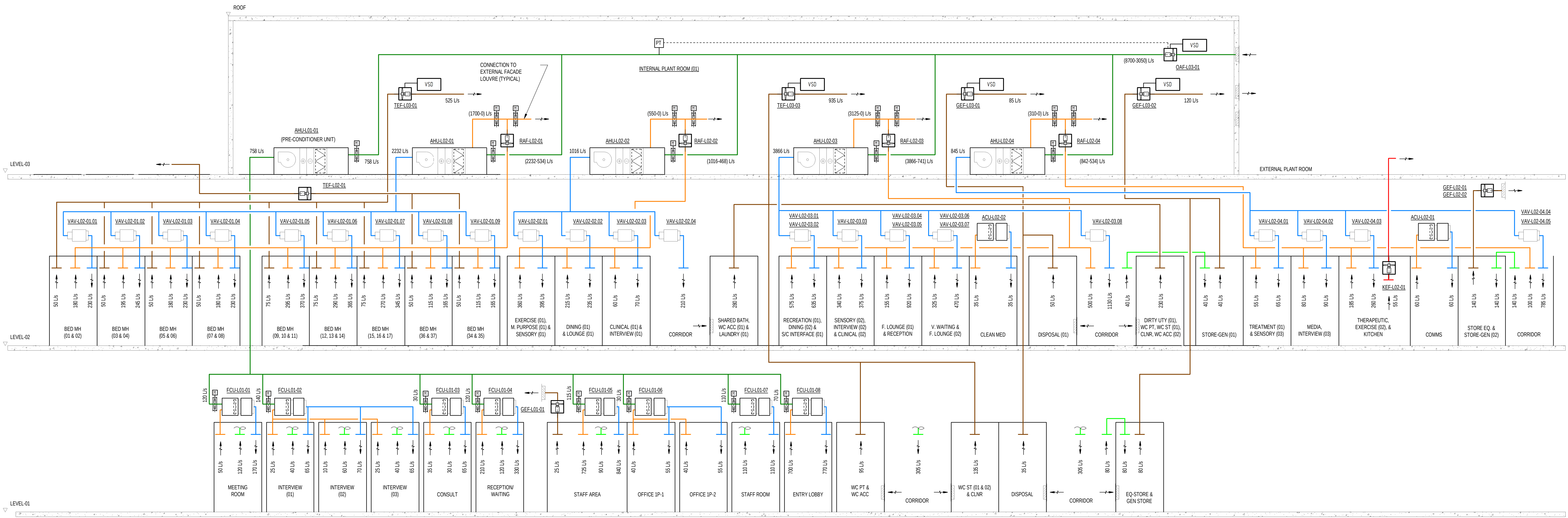
TYPICAL PIPING PROTECTION AND HANGER DETAIL
N.T.S.



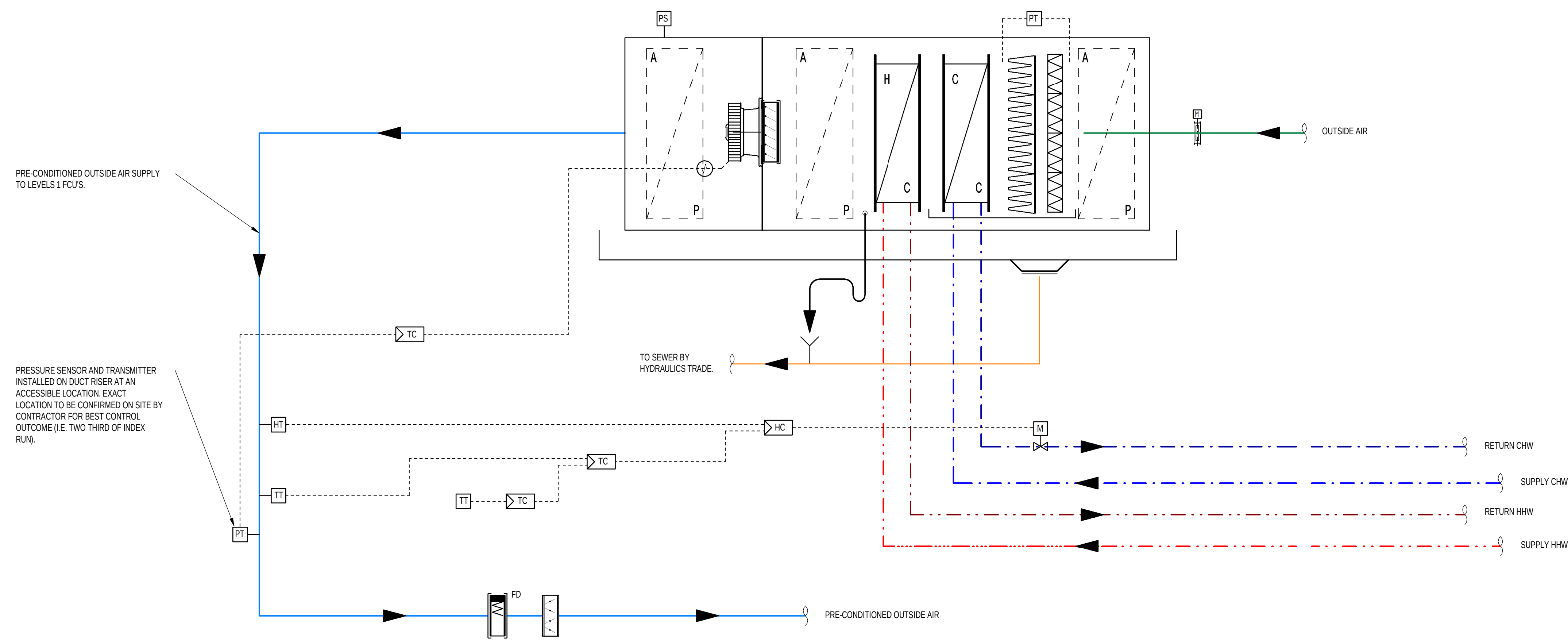
PIPE INSULATION (EXPOSED AREA) DETAIL
N.T.S.

A	24/02/2022	SO	DRAFT DETAIL DESIGN	MS	AC
REV	DATE	BY	DESCRIPTION	CHK	APP
DRAWING STATUS: DRAFT DETAIL DESIGN					
 Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com					
CLIENT: HEALTH INFRASTRUCTURE					
ARCHITECT: SILVER THOMAS HANLEY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT					
TITLE: MECHANICAL SERVICES TYPICAL DETAILS					
SCALE: 8 A0 NTS		CHECKED: -	APPROVED: -		
PROJECT NUMBER: PS123315		DRAWN: -	DATE: NOV 2022		
DRAWING NO: A2B-WSP-DRW-MEH-M10-011				REV	A

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MECHANICAL AIR SCHEMATIC PART 1



PRE-CONDITIONER UNIT CONTROL SCHEMATIC

REV	DATE	BY	DESCRIPTION	CHK	APP
A	14.02.2023	SD	DRAFT DETAIL DESIGN	MS	KC

DRAFT DETAIL DESIGN

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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: MECHANICAL SERVICES
AIR SCHEMATIC - SHEET 1

SCALE @ A1	NTS	CHECKED	DATE	APPROVED	DATE
PROJECT NUMBER	PS123315	DRAWN	-	DATE	NOV 2022

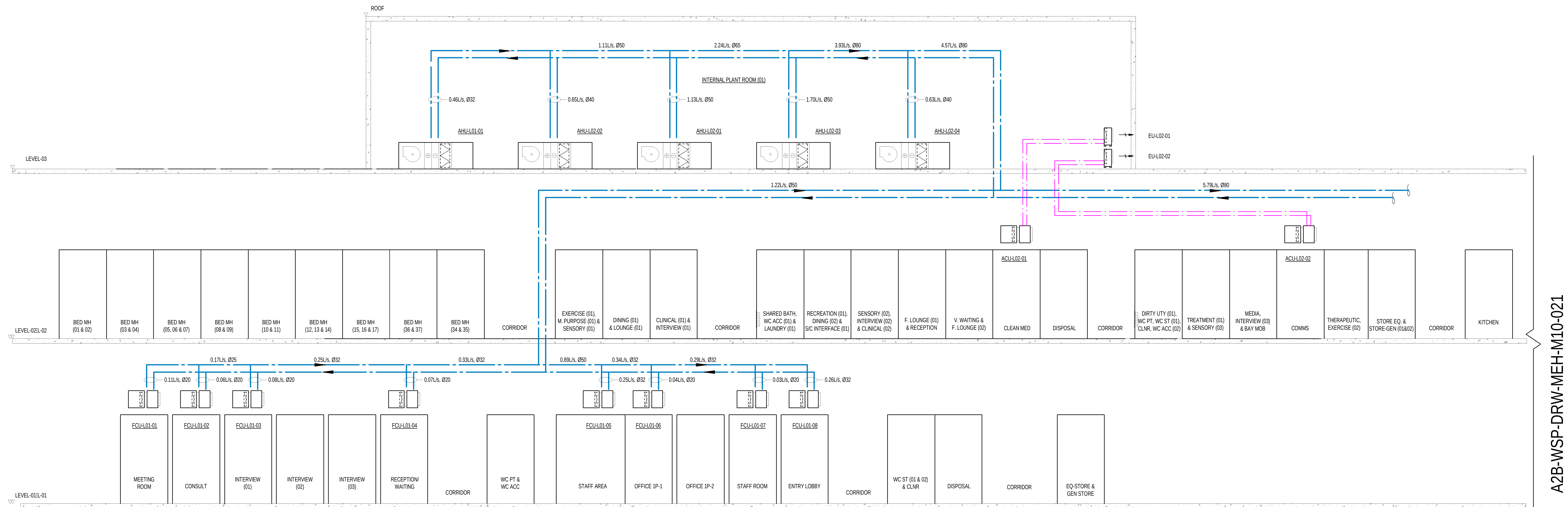
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REV: A

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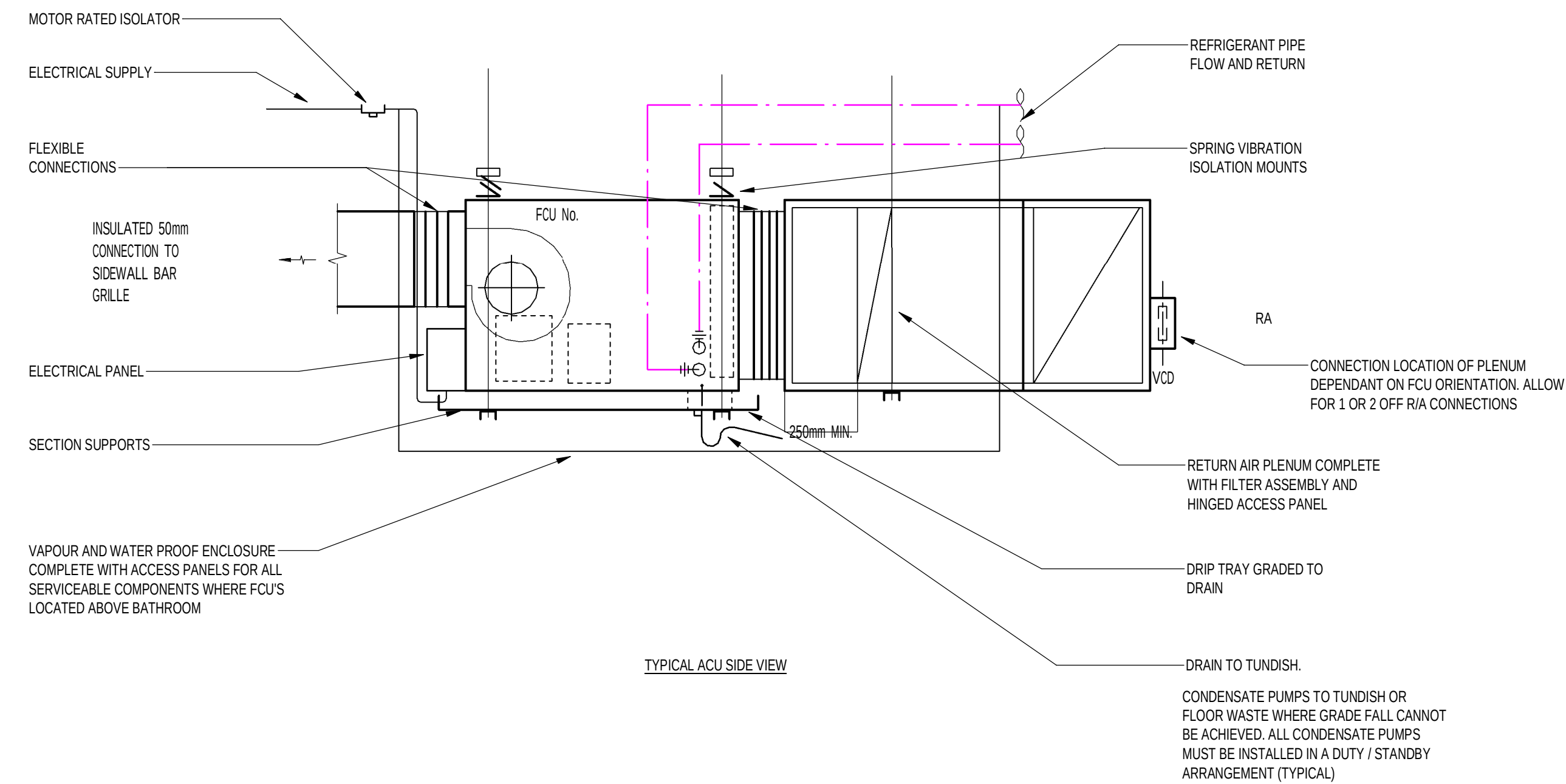
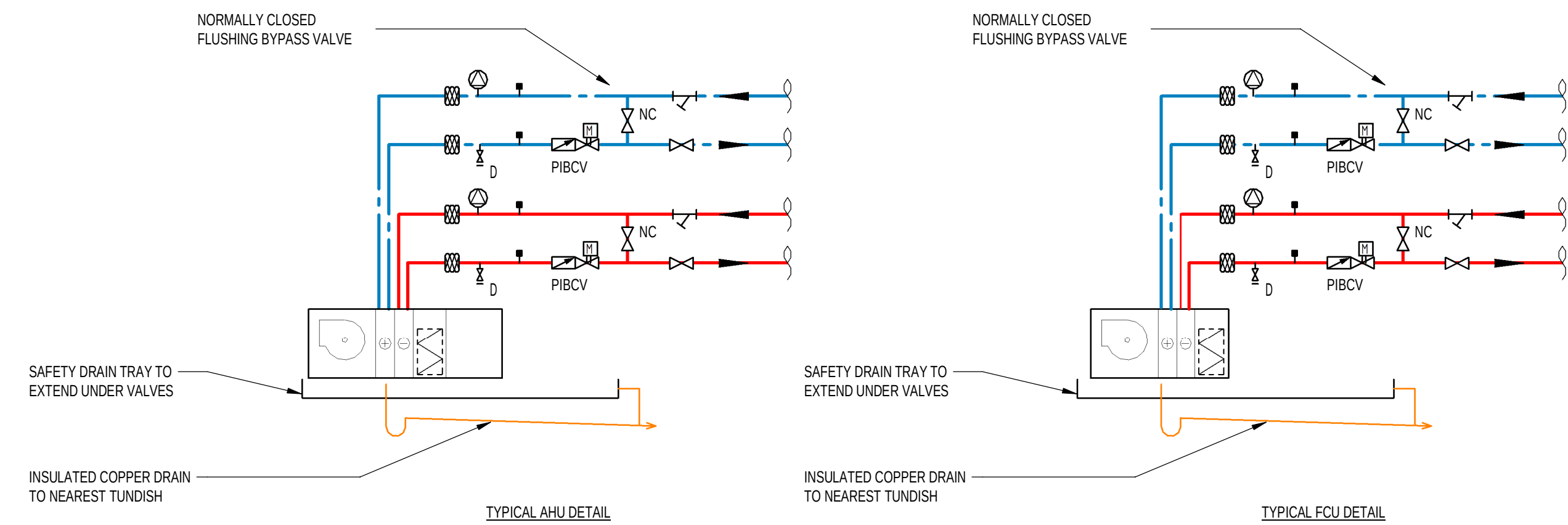
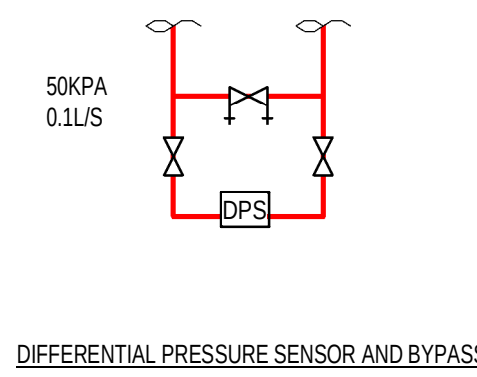


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A2B-WSP-DRW-MEH-M10-021

MECHANICAL CHW / REFRIGERANT SCHEMATIC PART 1



REV	DATE	BY	DESCRIPTION	CHK	APP
A	24.02.2023	SD	DRAFT DETAIL DESIGN	MS	KC

DRAFT DETAIL DESIGN

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<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: MECHANICAL SERVICES
CHILLED WATER SCHEMATIC - SHEET 1

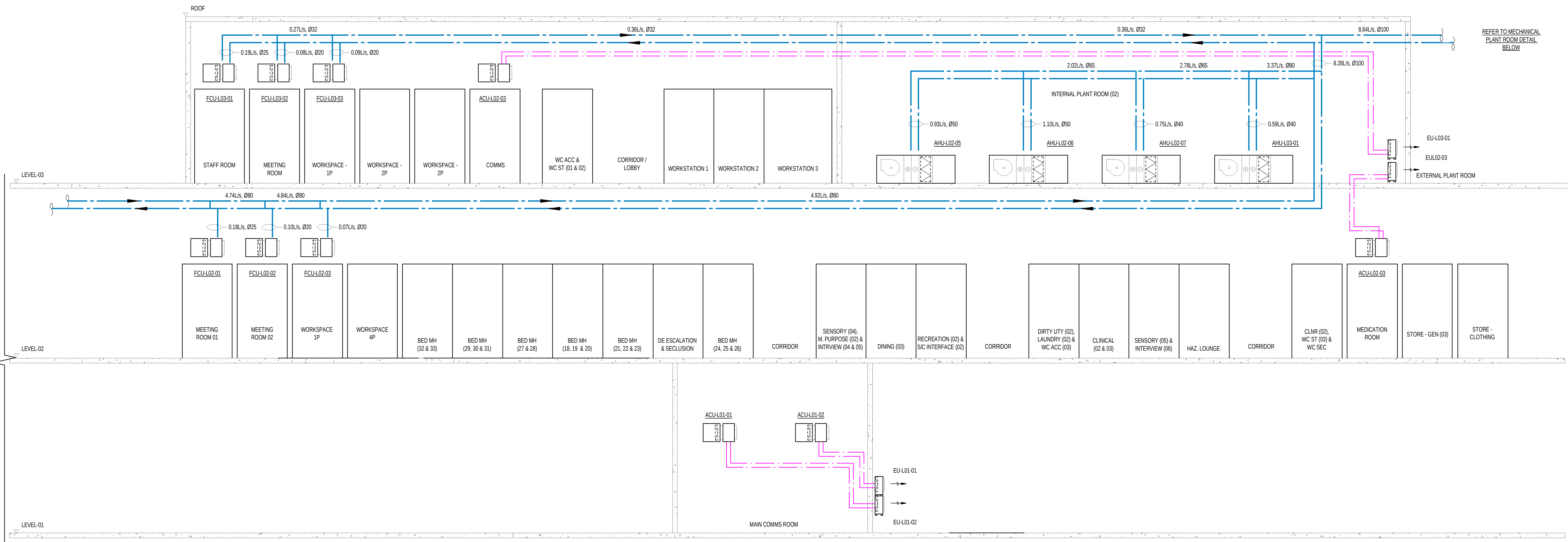
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NTS	-	-

PROJECT NUMBER	DRAWN	DATE	REV
PS123315	-	NOV 2022	-

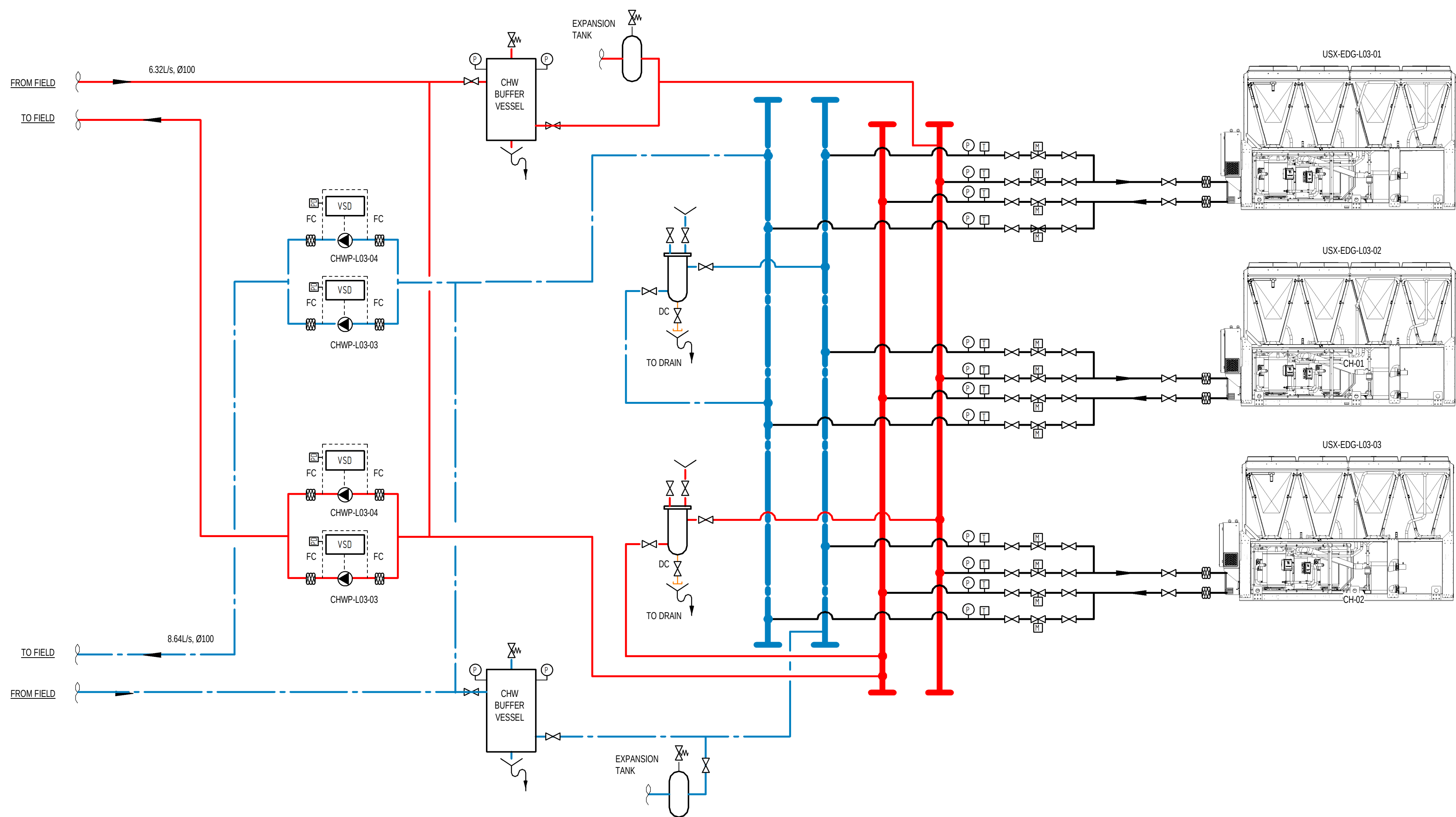
DRAWING NO.	REV
A2B-WSP-DRW-MEH-M10-022	A

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A2B-WSP-DRW-MEH-M10-020



MECHANICAL CHW / REFRIGERANT PIPE SCHEMATIC PART 2



MECHANICAL PLANT ROOM DETAIL

A	12.02.2023	SD	DRAFT DETAIL DESIGN	MS	KC
REV	DATE	BY	DESCRIPTION	CHK	APP

DRAWING STATUS: DRAFT DETAIL DESIGN

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Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

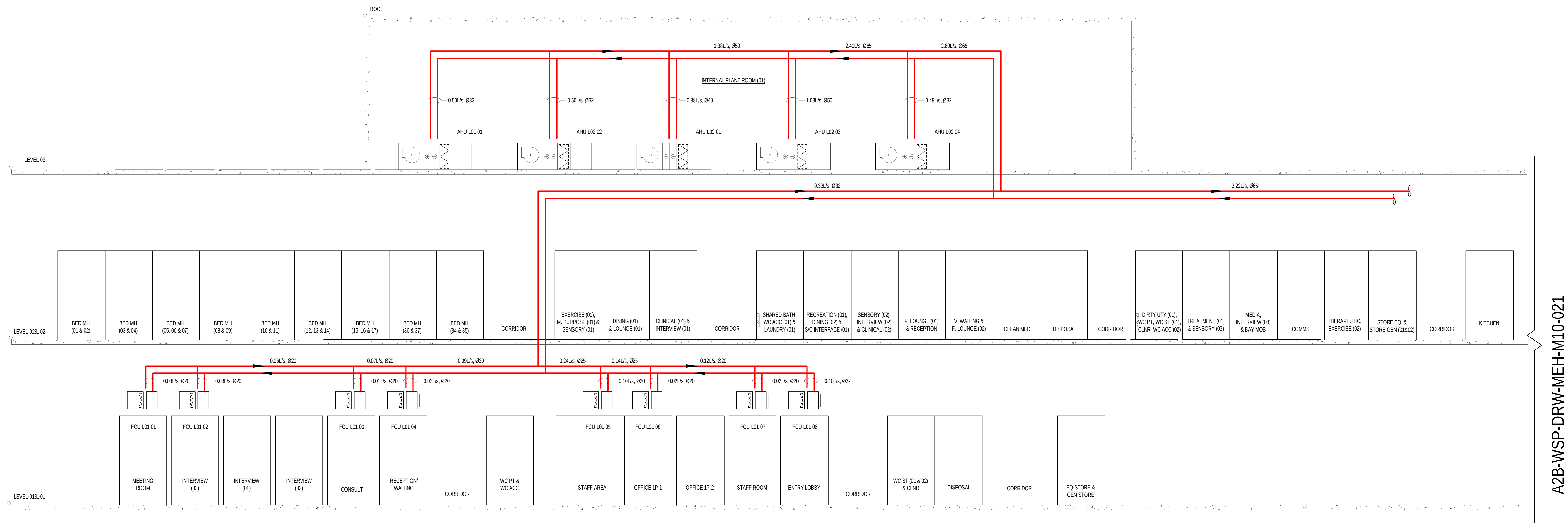
ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

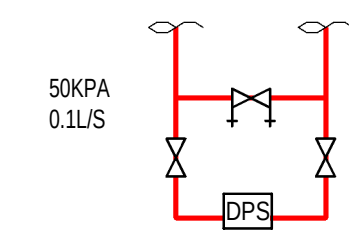
TITLE: MECHANICAL SERVICES
CHILLED WATER SCHEMATIC - SHEET 2

SCALE @ A1	NTS	CHECKED: -	APPROVED: -
PROJECT NUMBER:	PS123315	DRAWN: -	DATE: NOV 2022
DRAWING NO:	A2B-WSP-DRW-MEH-M10-023	REV:	A

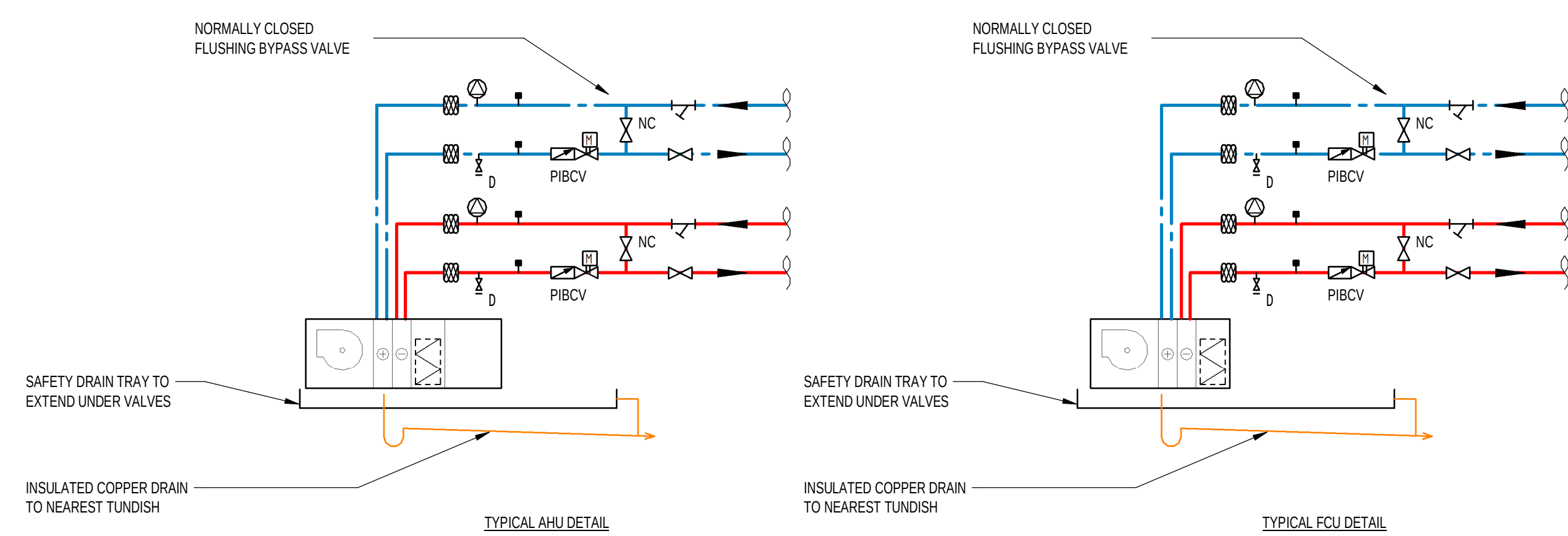
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MECHANICAL CHW / REFRIGERANT SCHEMATIC PART 1



DIFFERENTIAL PRESSURE SENSOR AND BYPASS



A			DRAFT DETAIL DESIGN	MS	KC
REV	DATE	BY	DESCRIPTION	CHK	APP

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CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

AMWORTH MENTAL HEALTH UNIT

MECHANICAL SERVICES
HEATING HOT WATER SCHEMATIC - SHEET 1

SCALE @ A0: NTS	CHECKED: .	APPROVED: .
PROJECT NUMBER: PS123315	DRAWN: .	DATE: NOV 2022

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MECHANICAL CHW / REFRIGERANT PIPE SCHEMATIC PART 2



DRAWING STATUS: DRAFT DETAIL DESIGN

DRAFT DETAIL DESIGN



CLIENT:	HEALTH INFRASTRUCTURE
ARCHITECT:	SILVER THOMAS HANLEY

PROJECT:

TAMWORTH MENTAL HEALTH UNIT

TITLE:

MECHANICAL SERVICES
HEATING HOT WATER SCHEMATIC - SHEET 2

PROJECT NUMBER:	DRAWING:	DATE:
PS123315	-	NOV 2022
DRAWING No:		REV:

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LOCATION OF VAVS SUBJECT TO COORDINATION WITH ARCHITECT. CURRENT LOCATION IS IN CORRIDOR.

ALL DUCT SIZES REFER TO AIR SIZE.

SUPPLY AIR TO BE ACOUSTICALLY LINED.

RELIEF / RETURN AIR FOR CONDITIONED ROOMS SERVED VIA VAV SYSTEM TO UTILISE ACOUSTIC TRANSFER GRILLES WITHIN CEILING VOID.

CURRENT MARKUPS ONLY HIGHLIGHT MAIN DUCT RUNS. VAV BOXES AND CONNECTIONS TO BE INCLUDED ONCE LOCATION IS COORDINATED WITH ARCHITECT.

LAYOUT IS INDICATIVE AND SHOWS DESIGN INTENT. COORDINATION WITH DESIGN TEAM AND DESIGN DEVELOPMENT REQUIRED.

UNITS SIZE AND QUANTITY SUBJECT TO FURTHER DESIGN DEVELOPMENT COORDINATION.

P : TEMPORARY ACCESS PANEL

wsp

Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

HEALTH INFRASTRUCTURE

SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

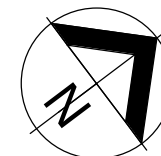
MECHANICAL SERVICES
HVAC LAYOUT - LEVEL 1

NO. 1100	CHECKED: KC	APPROVED: KC
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NUMBER:	DRAWN:	DATE:
PS123315	CD	NOV 202

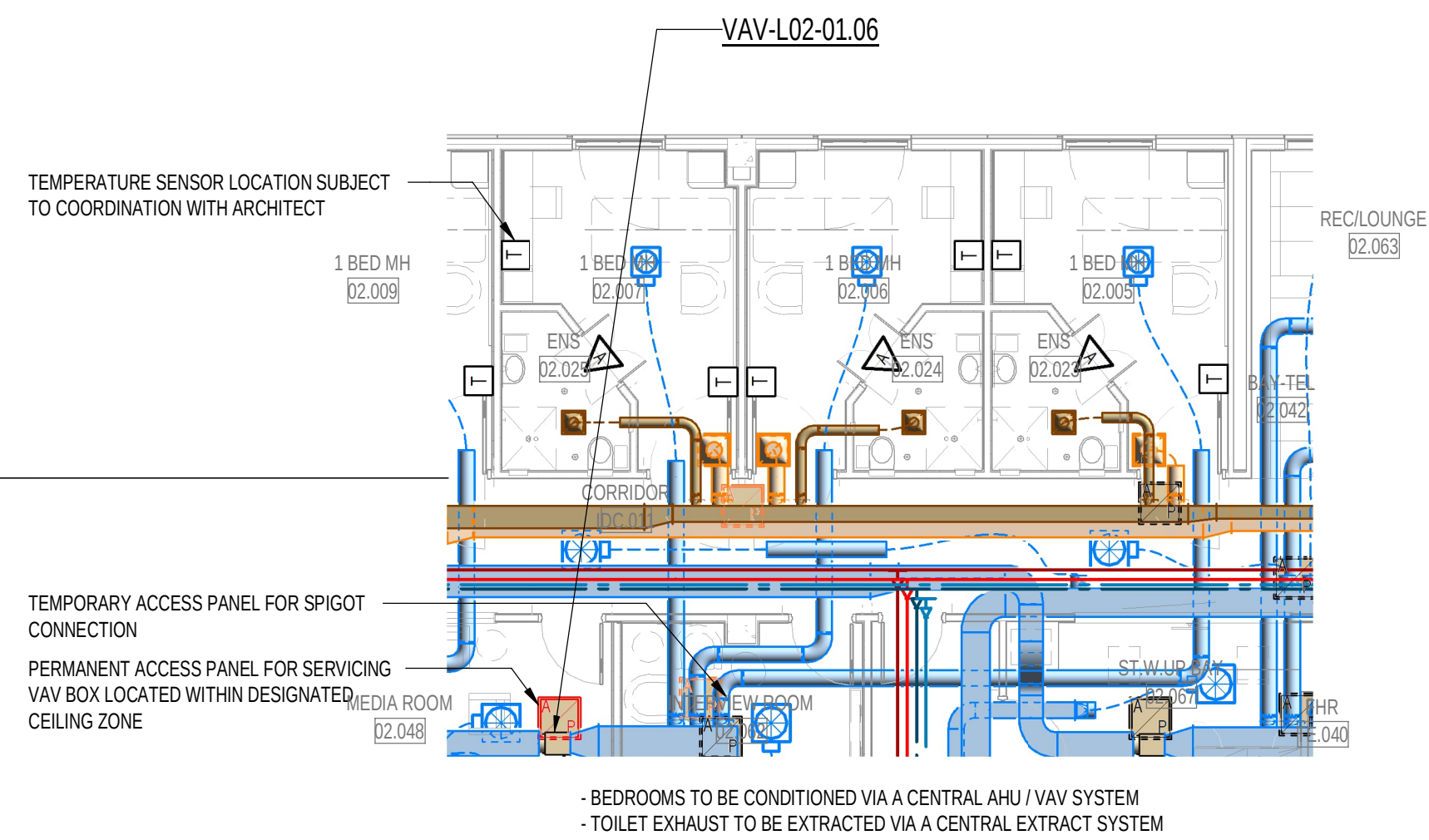
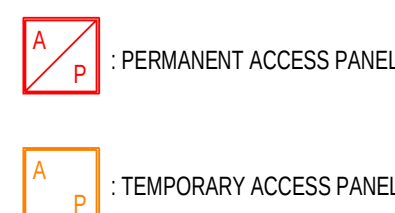
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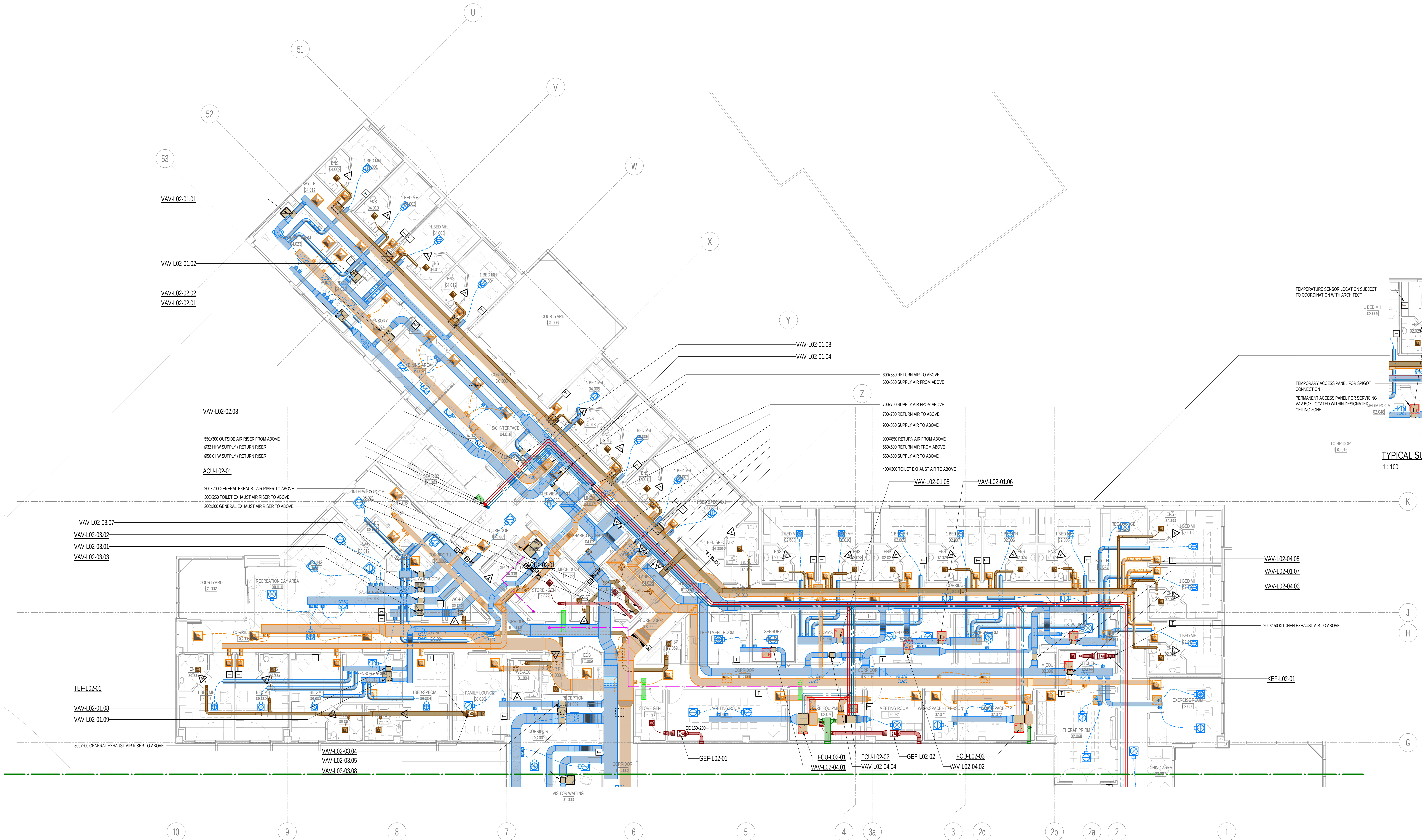


NOTES:

1. LOCATION OF VAVS SUBJECT TO COORDINATION WITH ARCHITECT. CURRENT LOCATION IS IN CORRIDOR.
2. ALL DUCT SIZES REFER TO AIR SIZE.
3. SUPPLY AIR TO BE ACOUSTICALLY LINED.
4. RELIEF / RETURN AIR FOR CONDITIONED ROOMS SERVED VIA VAV SYSTEM TO UTILISE ACOUSTIC TRANSFER GRILLES WITHIN CEILING VOID.
5. CURRENT MARKUPS ONLY HIGHLIGHT MAIN DUCT RUNS. VAV BOXES AND CONNECTIONS TO BE INCLUDED ONCE LOCATION IS COORDINATED WITH ARCHITECT.
6. LAYOUT IS INDICATIVE AND SHOWS DESIGN INTENT. COORDINATION WITH DESIGN TEAM AND DESIGN DEVELOPMENT REQUIRED.
7. UNITS SIZE AND QUANTITY SUBJECT TO FURTHER DESIGN DEVELOPMENT COORDINATION.



TYPICAL SUPPLY AND EXHAUST LAYOUT FOR BEDROOMS
1:100



A		24.02.2023	SO	DRAFT DETAIL DESIGN	MS	KC
REV	DATE	BY	DESCRIPTION	CHK	APP	
DRAWING STATUS						
DRAFT DETAIL DESIGN						
						
Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com						
CLIENT: HEALTH INFRASTRUCTURE						
ARCHITECT: SILVER THOMAS HANLEY						
PROJECT: TAMWORTH MENTAL HEALTH UNIT						
TITLE: MECHANICAL SERVICES HVAC LAYOUT PART 1 - LEVEL 2						
SCALE 8 A1		1100	CHECKED: KC	APPROVED: KC		
PROJECT NUMBER: PS123315			DRAWN: CD	DATE: NOV 2022		
DRAWING NO: A2B-WSP-DRW-MEH-M20-200						REV: A
© WSP Australia Pty Ltd						

LOCATION OF VAVS SUBJECT TO COORDINATION WITH ARCHITECT. CURRENT LOCATION IS IN CORRIDOR.

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SUPPLY AIR TO BE ACOUSTICALLY LINED.

RELIEF / RETURN AIR FOR CONDITIONED ROOMS SERVED VIA VAV SYSTEM TO UTILISE ACOUSTIC TRANSFER GRILLES WITHIN CEILING VOID.

CURRENT MARKUPS ONLY HIGHLIGHT MAIN DUCT RUNS. VAV BOXES AND CONNECTIONS TO BE INCLUDED ONCE LOCATION IS COORDINATED WITH ARCHITECT.

LAYOUT IS INDICATIVE AND SHOWS DESIGN INTENT. COORDINATION WITH DESIGN TEAM AND DESIGN DEVELOPMENT REQUIRED.

UNITS SIZE AND QUANTITY SUBJECT TO FURTHER DESIGN DEVELOPMENT COORDINATION.

AV-L02-07.01
AV-L02-05.04
AV-L02-07.06
AV-L02-05.07
AV-L02-05.05
AV-L02-07.03

AV-L02-07.02

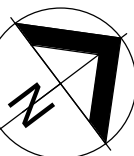
VAV-L02-03.08—

VAV-L02-03.06

200x200 HAZARDOUS EXHAUST RISER
800x600 GENERAL EXHAUST RISER
400x300 GENERAL EXHAUST RISER
200x200 GENERAL EXHAUST RISER

GEF-L02-03
VAV-L02-07.05
TEF-L03-04
VAV-L02-05.01
GEF-L02-04

VAV-L02-07.04
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VAV-L02-06.01
VAV-L02-05.06

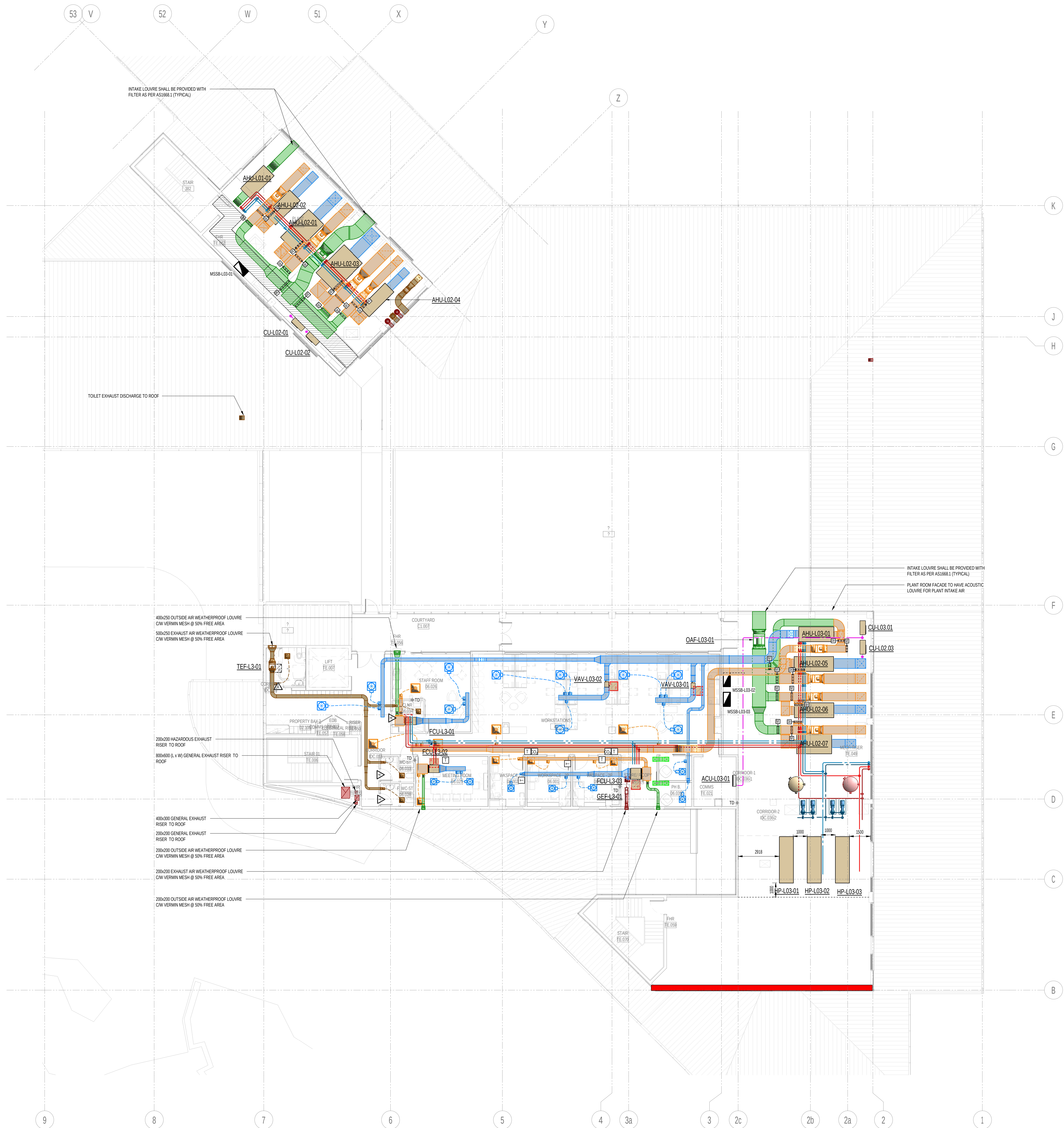


NOTES:

1. LOCATION OF VAVS SUBJECT TO COORDINATION WITH ARCHITECT. CURRENT LOCATION IS IN CORRIDOR.
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A P PERMANENT ACCESS PANEL

A P TEMPORARY ACCESS PANEL



REV	DATE	BY	DESCRIPTION	CHK	APP
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DRAFT DETAIL DESIGN



Level 27, 680 George Street, Sydney, NSW 2000
Tel: +61-2-9272-5100 Fax: +61-2-9272-5101
<http://www.wsp.com>

CLIENT: HEALTH INFRASTRUCTURE

ARCHITECT: SILVER THOMAS HANLEY

PROJECT: TAMWORTH MENTAL HEALTH UNIT

TITLE: MECHANICAL SERVICES
HVAC LAYOUT - LEVEL 3

SCALE & NO	CHECKED	APPROVED
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1100	KC	KC
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PROJECT NUMBER	DRAWING	DATE
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PS123315	CD	NOV 2022
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DRAWING NO	REV
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A2B-WSP-DRW-MEH-M20-300	A
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BANKSIA MENTAL HEALTH

Luminaire Schedule

Project Number: PS123315

Sydney +61 2 8901 0900

Revision: A

Date: 24.02.2023

This luminaire schedule is to be read in conjunction with the Electrical Services Specification.

Fittings specified are to be ordered as described, finishes are indicative and are to be confirmed with the Architect prior to ordering.

Any changes/ alternatives are to be approved by Lighting Designer & Client prior to ordering.

All transformers, drivers & control gear to be compatible with the specified control system.

Lead times for luminaires & equipment can be up to 8 weeks. Contractor is to ensure luminaire lead times are with program requirements and to order fittings with sufficient time to requiring them on site.

Dimensions shown are indicative only and are not to be considered for cut-outs. Contractor to confirm fitting dimensions including cut-outs with Supplier prior to proceeding with installation on site.

Any changes to the document are shown in bold italics

Luminaire Schedule Key

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
Lxx	Image	General description of luminaire type and accessories e.g. luminaire type, mounting, optic, finish, dimming protocol, accessories	Brand Product family / name Catalogue number	Supplier: Contact: Email: Phone: Mobile:	Width: XXmm Height: XXmm Length: XXmm Diameter: XXmm	CCT: CRI (R9): Lumen (lumen per watt): MacAdam: TM30 Rf / Rg: Lx / Bx:	Installation notes Description of accessories

BANKSIA MENTAL HEALTH

Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
EM1		RECESSED EMERGENCY LUMINAIRE D40 EMERGENCY CLASSIFICATION C0 : C90	STANILITE PLATINUM SPITFIRE LED RECESSED NEXUS LX NON-MAINTAINED, WHITE SFNRF1LEDP	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	DIA: 141mm	2W LED C0: D40 C90: D40 100,000 hours	DALI SELF-CONTAINED
EM2		SURFACE MOUNTED EMERGENCY LUMINAIRE D40 EMERGENCY CLASSIFICATION C0 : C90	STANILITE PLATINUM SPITFIRE LED SURFACE MOUNT NEXUS LX NON-MAINTAINED, WHITE SFBNRF1LEDP	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 288mm W: 167mm H: 68mm	2W LED C0: D40 C90: D40 100,000 hours	DALI SELF-CONTAINED
EX1		RECESSED EXIT LUMINAIRE E6 CLASSIFICATION C0 : C90	STANILITE PLATINUM RECESSED EXIT LED EDGELIT QUICKFIT NEXUS LX. RUNNING MAN STYLE PLQNRFLDP	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 379mm W: 8.7mm H: 232mm	24m VIEWING DISTANCE 0.7W LED C0: D3.2 C90: E2 100,000 hours	CONNECT TO EMERGENCY LIGHTING TEST SWITCH IN DISTRIBUTION BOARD DALI SELF-CONTAINED

BANKSIA MENTAL HEALTH

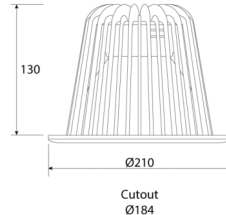
Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
EX2		SURFACE MOUNTED OR SUSPENDED EXIT LUMINAIRE E2 CLASSIFICATION C0 : C90	STANILITE PLATINUM EXIT SURFACE MOUNTED QUICKFIT NEXUS LX. RUNNING MAN STYLE PQFNRFLEDP	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 379mm W: 72mm H: 214mm	24m VIEWING DISTANCE 1.6W LED C0: D3.2 C90: D3.2 100,000 hours	CONNECT TO EMERGENCY LIGHTING TEST SWITCH IN DISTRIBUTION BOARD DALI SELF-CONTAINED
EX3		WALL MOUNTED IP RATED EXIT LUMINAIRE E2 CLASSIFICATION C0 : C90	STANILITE PLATINUM EXIT WEATHERPROOF NEXUS LX. RUNNING MAN STYLE PWEXNXSLEDP	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 380mm W: 130mm H: 190mm	24m VIEWING DISTANCE 1.6W LED C0: D3.2 C90: D3.2 100,000 hours	CONNECT TO EMERGENCY LIGHTING TEST SWITCH IN DISTRIBUTION BOARD DALI SELF-CONTAINED
D1		RECESSED ANTI-LIGATURE DOWNLIGHT	VERSALUX COMO BLACK MELAGEN REFRESH. VANDAL- RESISTANT POLYCARBONATE LENS + TORX SCREW FIXING. COI COMPLIANT.	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 2200K CRI: 90 Lumens: 1485lm (29W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 20 IK: 07	LOCATION: PATIENT BEDROOM FOR ANTI-LIGATURE APPLICATION, A NON-PICK MASTIC WILL BE APPLIED TO TRIM SURROUND ONCE INSTALLED, BY INSTALLING CONTRACTOR DALI DIMMABLE

BANKSIA MENTAL HEALTH

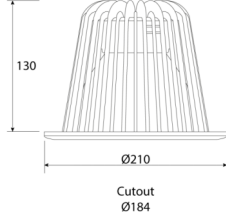
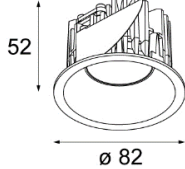
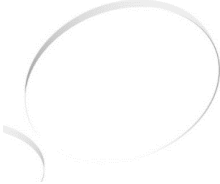
Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
D2		RECESSED ANTI-LIGATURE DOWNLIGHT	VERSALUX COMO BLACK MELAGEN REFRESH. VANDAL-RESISTANT POLYCARBONATE LENS + TORX SCREW FIXING. COI COMPLIANT. IP44 SPLASH PROOF VERSION	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 2200K CRI: 90 Lumens: 1485lm (29W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 44 IK: 07	LOCATION: PATIENT BATHROOM FOR ANTI-LIGATURE APPLICATION, A NON-PICK MASTIC WILL BE APPLIED TO TRIM SURROUND ONCE INSTALLED, BY INSTALLING CONTRACTOR DALI DIMMABLE
D3		RECESSED WHITE DOWNLIGHT WITH FLOOD 40 DEGREE LIGHT DISTRIBUTION	MODULAR SMART LOTIS 82 LED, FLOOD 40 DEGREE LIGHT DISTRIBUTION, WHITE STRUCTURE DALI DIMMABLE	MODULAR LIGHTING AND PARTNERS ROBBIE JACOBS Email: robbie.j@modular.partners Phone: 1300 101 433 Mobile: 0433 238 032		CCT: 3000K CRI: 90 Lumens: 793lm (13.4W) MacAdam: 3 Lx / Bx: TBC	LOCATION: CIRCULATION CORRIDORS REMOTE DRIVER TO BE INSTALLED IN CEILING CAVITY DALI DIMMABLE
D4		LARGE SURFACE MOUNTED CIRCULAR LUMINAIRE	VERSALUX LUCCA, WHITE FINISH DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	Dia: 1200mm H: 95mm	CCT: 3000K CRI: 90 Lumens: 3525lm (38W) MacAdam: 3 Lx / Bx: TBC	LOCATION: DINING/ LOUNGE DALI DIMMABLE

BANKSIA MENTAL HEALTH

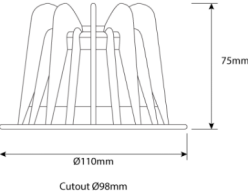
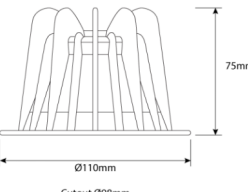
Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
D5		SURFACE MOUNTED LOW GLARE CIRCULAR LUMINAIRE WITH DIRECT AND INDIRECT LIGHT OUTPUT	VERSALUX LUCCA, WHITE FINISH DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	Dia: 450mm H: 95mm	CCT: 3000K CRI: 90 Lumens: 10700lm (150W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: INTERVIEW ROOM DALI DIMMABLE
D6		RECESSED DOWNLIGHT, SMALL	VERSALUX COMO WHITE S, NARROW BEAM DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 3000K CRI: 90 Lumens: 680lm (8W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: INTERVIEW ROOM DALI DIMMABLE
D7		RECESSED DOWNLIGHT, SMALL	VERSALUX COMO WHITE S, WIDE BEAM DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 3000K CRI: 90 Lumens: 1100lm (15W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: DINING/ LOUNGE DALI DIMMABLE

BANKSIA MENTAL HEALTH

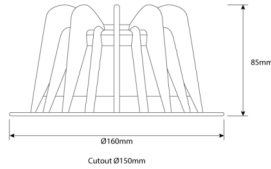
Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
D8		RECESSED IP RATED DOWNLIGHT	VERSALUX COMO WHITE, WIDE BEAM DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 3000K CRI: 90 Lumens: 1890lm (21W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65	LOCATION: EXTERNAL LIFT LOBBY ENTRY DALI DIMMABLE
B1		SURFACE MOUNTED OR SUSPENDED VANDAL- RESISTANT, DUST PROOF LED BATTEN	EAGLE LIGHTING DENSUS LED BATTEN, WITH ESENCE DETECT - ON/OFF MOTION SENSOR	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1280mm W: 150mm H: 100mm	CCT: 3000K CRI: 80+ Lumens: 3850lm (34W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 66 IK: 10	LOCATION: BOH AREAS, SWITCH ROOM, COMMS ROOM ON/OFF MOTION DETECTION
B1-E		SURFACE MOUNTED OR SUSPENDED VANDAL- RESISTANT, DUST PROOF LED BATTEN	EAGLE LIGHTING DENSUS LED BATTEN, WITH INTEGRAL EMERGENCY AND ESENCE DETECT - ON/OFF MOTION SENSOR	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1280mm W: 150mm H: 100mm	CCT: 3000K CRI: 80+ Lumens: 3850lm (34W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 66 IK: 10	LOCATION: BOH AREAS, SWITCH ROOM, COMMS ROOM ON/OFF MOTION DETECTION

BANKSIA MENTAL HEALTH

Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
B2		SURFACE MOUNTED VANDAL-RESISTANT, DUST PROOF LED BATTEN	EAGLE LIGHTING DENSUS LED BATTEN, WITH ESENCE DETECT - ON/OFF MOTION SENSOR	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1280mm W: 150mm H: 100mm	CCT: 3000K CRI: 80+ Lumens: 5265lm (43W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 66 IK: 10	LOCATION: UNDERGROUND CARPARK ON/OFF MOTION DETECTION
B2-E		SURFACE MOUNTED VANDAL-RESISTANT, DUST PROOF LED BATTEN	EAGLE LIGHTING DENSUS LED BATTEN, WITH INTEGRAL EMERGENCY AND ESENCE DETECT - ON/OFF MOTION SENSOR	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1280mm W: 150mm H: 100mm	CCT: 3000K CRI: 80+ Lumens: 5265lm (43W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 66 IK: 10	LOCATION: UNDERGROUND CARPARK ON/OFF MOTION DETECTION
B3		SUREFACE MOUNTED WEATHER AND VANDAL RESISTANT LED BATTEN	DESIGNPLAN MISSION VANDAL AND WEATHER RESISTANT BATTEN INTEGRAL 2 HOUR DURATION EMERGENCY.	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1303mm W: 235mm H: 95mm	CCT: 3000K CRI: 80+ Lumens: 3176lm (28.4W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65 IK: 16	LOCATION: UNDERSIDE OF LINK BRIDGE ON/OFF SWITCHING

BANKSIA MENTAL HEALTH

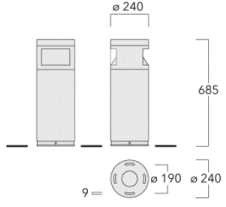
Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
BL1		LOW LEVEL BOLLARD LUMINAIRE	WE-EF CFY259 LED - 685mm LED BOLLARD. ASYMMETRIC ONE-SIDED FORWARD THROW LIGHT DISTRIBUTION RAL9006 WHITE ALUMINIUM 111-0213	STRAMAC LIGHTING GAVIN MACRAE Email: gavin@stramaclighting.com.au Mobile: 0418 497 814		CCT: 3000K CRI: 80 Lumens: 2340lm (21W) MacAdam: 3 L90 B10 @ 90,000 hours IP: 66 IK: 10	LOCATION: PEDESTRIAN PATHWAY ON/OFF SWITCHING
H1		HANDRAIL INTEGRATED LED LIGHTING	PLANET LIGHTING LED PUCK SNAP, ASYMMETRIC BEAM, FLAT/CURVED FACE TO BE INTEGRATED INTO HANDRAIL	EUROLUCE GREG MCKEW Email: g.mckew@euroluce.com.au Phone: 9356 9900 Mobile: 0419 296 858	W: 16mm H: 17mm	CCT: 3000K CRI: 80 Lumens: 175lm (1.4W) MacAdam: 3 IP: 65 IK: 10	LOCATION: PEDESTRIAN PATHWAY ON/OFF SWITCHING
L1		INDIRECT LED LINEAR STRIP CONCEALED WITHIN ARCHITECTURAL CEILING COVE	DARKON SUPER MINI GRAZER SM, WHITE FINISH. FIXED BEHIND 5mm POLYCARBONATE BARRIER WITH TORX TAMPER RESISTANT SCREWS REMOTE DRIVER TO BE LOCATED IN CEILING CAVITY DALI DIMMABLE	DARKON BRENDAN WARD Email: brendan.ward@darkon.com.au Phone: (02) 9699 2000 Mobile: 0414 607 615	L: TO MATCH CEILING COVE W: 15mm H: 15mm	CCT: 3000K CRI: 90+ Lumens: 977lm/m (16W/m) MacAdam: 3 L70 B50 @ 50,000 hours	PRODUCT TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SOLUTION FOR APPROVAL PRIOR TO INSTALLATION LOCATION: DE-ESCALATION, SECLUSION

BANKSIA MENTAL HEALTH

Luminaire Schedule

Project Number: PS123315

DRAFT DETAILED DESIGN

Revision: A

Date: 24.02.2023

Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
L2		DIRECT VIEW CONTINUOUS LED LINEAR STRIP	DARKON SLIM TRIM RECESSED, LOWEST HE 200MA OUTPUT. WHITE FINISH DALI DIMMABLE	DARKON BRENDAN WARD Email: brendan.ward@darkon.com.au Phone: (02) 9699 2000 Mobile: 0414 607 615	L: TO MATCH CORRIDOR W: 59mm H: 76mm	CCT: 3000K CRI: 90+ Lumens: 996lm/m (11W/m) MacAdam: 3 L80 @ 72,000 hours	LOCATION: PATIENT CORRIDOR REMOTE DRIVER TO BE LOCATED IN CEILING CAVITY DALI DIMMABLE
L3		DIRECT CONTINUOUS LINEAR LUMINAIRE CONCEALED WITHIN ARCHITECTURAL COVE TO WASH DOWN WALL GRAPHIC	VERSALUX INFINITI-R MELAGEN REFRESH, COI COMPLIANT. SYMMETRIC LENS, FIXED BEHIND 5mm POLYCARBONATE BARRIER WITH TORX TAMPER RESISTANT SCREWS DALI DIMMABLE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	L: SITE MEASURE W: 84mm H: 86mm	CCT: 2200K CRI: 90 Lumens: 1485lm (29W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 44 IK: 07	PRODUCT TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SOLUTION FOR APPROVAL PRIOR TO INSTALLATION LOCATION: PATIENT BEDROOM
L4		INDIRECT FLEXIBLE LED LINEAR STRIP INTEGRATED WITHIN ARCHITECTURAL DETAIL, SIDE BEND	DARKON SR CONTOUR LIGHT CONT V FS15 MONO CHROMATIC DALI DIMMABLE	DARKON BRENDAN WARD Email: brendan.ward@darkon.com.au Phone: (02) 9699 2000 Mobile: 0414 607 615	L: TO MATCH CEILING COVE W: 16mm H: 14mm	CCT: 3000K CRI: 80+ Lumens: 380lm/m (12W/m) MacAdam: 3 L70 B50 @ 50,000 hours	LOCATION: VISITOR WAITING REMOTE DRIVER TO BE LOCATED IN CEILING CAVITY DALI DIMMABLE

BANKSIA MENTAL HEALTH

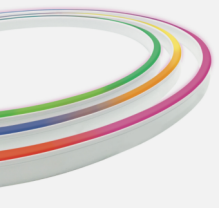
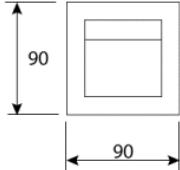
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L5		COVE INTEGRATED DYNAMIC RGB LED LINEAR STRIP	LIGHT CULTURE NEON EDGE, RGB DYNAMIC INSTALLATIONS THAT CHASE, BLEND, FLOW, FLASH, SKIP OR FADE. FIXED BEHIND 5mm POLYCARBONATE BARRIER WITH TORX TAMPER RESISTANT SCREWS. SUPPLY WITH SPI CONTROLLER. REMOTE DRIVER TO BE LOCATED IN CEILING CAVITY	LIGHT CULTURE GARETH MUNTON Email: gareth@lightculture.com.au Phone: 1300 300 904 Mobile: 0420 768 418	L: TO MATCH CEILING W: 11.5mm H: 21mm	CCT: RGB CRI: 80+ Lumens: 280lm/m (15W/m) MacAdam: 3 IP: 40 L80 B10 @ 50,000 hours	PRODUCT TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF PROPOSED SOLUTION FOR APPROVAL PRIOR TO INSTALLATION LOCATION: SENSORY ROOMS
N1		WALL RECESSED ANTI-LIGATURE LUMINAIRE	VERSALUX CREMONA, FIXED BEHIND 5mm POLYCARBONATE BARRIER WITH TORX TAMPER RESISTANT SCREWS	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 3000K CRI: 90 Lumens: 94lm (4W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65	PRODUCT TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR LOCATION: PATIENT BEDROOM DALI DIMMABLE
W1		WALL MOUNTED LUMINAIRE	FLINDT WALL LIGHT, WHITE	MODULAR LIGHTING AND PARTNERS ROBBIE JACOBS Email: robbie.j@modular.partners Phone: 1300 101 433 Mobile: 0433 238 032	Dia: 300mm	CCT: 2700K CRI: 90 Lumens: 680lm (16W) MacAdam: 3 L70 B10 @ 55,000 hours IK: 08	LOCATION: DINING/ LOUNGE DALI DIMMABLE

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W2		ANTI-LIGATURE WALL MOUNTED LUMINAIRE	DESIGNPLAN TORINO AL WALL MOUNTED LUMINAIRE, WHITE. OPAL POLYCARBONATE DIFFUSER FIXED WITH TAMPERPROOF SCREWS DALI DIMMABLE	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	Dia: 485mm	CCT: 3000K CRI: 80+ Lumens: 1763lm (22W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65 IK: 14	LOCATION: OUTDOOR COURTYARDS DALI DIMMABLE
T1		RECESSED LOW GLARE CLEANROOM TROFFER LUMINAIRE	VERSALUX CLINIC, COI COMPLIANT, ANTI-MICROBIAL TREATMENT TO UNDERSIDE OF LUMINAIRE	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	L: 1200mm W: 300mm	CCT: 4000K CRI: 90 Lumens: 3957lm (41W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65	LOCATION: KITCHEN, CLINICAL DALI DIMMABLE
T2		RECESSED LOW GLARE LED TROFFER LUMINAIRE	VERSALUX ASTI MELAGEN BLUE WITH OPALESCENT OPTIC, HIGH OUTPUT. COI COMPLIANT	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	L: 1200mm W: 300mm	CCT: 4200K CRI: 90 Lumens: 4459lm (45W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: INTERFACE, MEETING, WORKROOM, OFFICES, CONSULT DALI DIMMABLE

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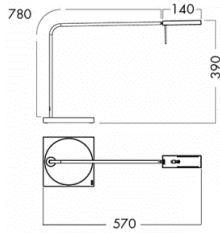
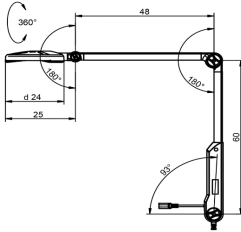
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Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
T3		RECESSED LOW GLARE LED TROFFER LUMINAIRE	VERSALUX ASTI WITH OPALESCENT OPTIC, LOW OUTPUT.	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571	L: 1200mm W: 300mm	CCT: 4000K CRI: 90 Lumens: 2125lm (22W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: STORE ROOMS ON/OFF SWITCHING
T5		BUILT-IN DIMMABLE TASK LIGHT	VERSALUX LUXO NINETY LED WORKSTATION TASK LIGHT. SUPPLIED WITH INTEGRATED TABLE MOUNT, WHITE FINISH AUTOMATICALLY TURNS OFF AFTER 9 HOURS TO SAVE ENERGY (CAN BE SET TO 4 HOURS)	VERSALUX MARCO CAMMISOTTO mcammisotto@versalux.com.au Phone: (02) 9922 8900 Mobile: 0427 814 571		CCT: 3250K CRI: 90 Lumens: (6W) MacAdam: 3 IP: 20 L70 B10 @ 45,000 hours	LOCATION: MEDICATION ROOM AND CLINICAL WORKROOM TO BE MOUNTED USING INTEGRATED TABLE MOUNT KNX/ DALI RELAY ACTUATOR
T6		WALL MOUNTED EXAMINATION LUMINAIRE	WALDMAN VISIANO LED EXAMINATION LAMP WALL MOUNTED. TWO COLOUR TEMPERATURE OPTIONS, 4 DIMMING LEVELS. PURE WHITE ML515-W	REDBANK GROUP		CCT: 3500K/4500K CRI: 95+ Output: 21W IP: 20	LOCATION: CONSULT ROOM KNX/ DALI RELAY ACTUATOR

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Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
T7		ANTI-LIGATURE PLASTER CEILING RECESSED LUMINAIRE	EAGLE LIGHTING SECUREROOM TROFFER. ANTI-LIGATURE AND VANDAL PROOF.	EAGLE LIGHTING TATIANA PETUKHOVA tatiana.petukhova@eaglelighting.com.au Mobile: 0401 712 084	L: 1220mm W: 347mm	CCT: 4000K CRI: 95+ Lumens: 2914lm (29W) MacAdam: 2 IP: 65 L70 B10 @ 45,000 hours COI COMPLIANT	LOCATION: EXERCISE ROOM ON/OFF SWITCHING
PR1		CUSTOM FIBRE OPTIC STARRY NIGHT CEILING	500 POINT CUSTOM STAR KIT, DENSE LIGHTING SOLUTION. HIGH LED LUMEN ILLUMINATOR WITH TWINKLE EFFECT, REMOTE CONTROLLABLE SUPPLY WITH TWINKLE SCINTILLATION WHEEL FOR TWINKLE EFFECT AND SPECIALLY DESIGNED FIBRE OPTIC HARNESS FOR SHOOTING STAR AND METEOR TRAILS	OPTIC FIBRE & LED LIGHTING SOLUTIONS ANTHEA SCHULZ Email: anthea@ledlighting.com.au Phone: 9534 4404	CEILING DIMENSIONS 2,800mm X 2,800mm SITE MEASURE EACH ROOM	10W LED HIGH LUMEN ILLUMINATOR 500 x 0.75mm SIZE COLOURS: BLUE/WHITE	DMX CONTROLLED. PROVIDE DALI INTERFACE TO CONNECT TO KNX DALI BUILDING CONTROL SYSTEM REMOTE CONTROL GEAR TO BE LOCATED IN AN ACCESSIBLE, WELL VENTILATED LOCATION. PART NUMBERS: OPT-LED-500 - 500 STAR POINTS OPT-501-ST - SHOOTING STAR OP5-501-EXP - EXPLODING STAR LOCATION: SENSORY ROOMS
PR2		INTERACTIVE FEATURE SURFACE WALL PANEL C/W 6 X ABSTRACT PRE PROGRAMMED MEDIA VIDEO FILES	PHILIPS TEXTILE CUSTOM LUMINOUS PANEL WITH COLOUR CONNECTICS NODE STRINGS, FIXED BEHIND 5mm POLYCARBONATE BARRIER WITH TORX TAMPER RESISTANT SCREWS	SIGNIFY RISHI SHARMA Email: rishi.sharma@signify.com.au Mobile: 0428 571 973	L: 2,160mm H: 720mm	CCT: RGBW 500 lm per SQUARE/M 50 FRAMES PER SECOND CRI: 85 L70 @ 60,000 hours	PRODUCT TO BE INSTALLED BEHIND SUFFICIENT ANTI-TAMPER, ANTI-LIGATURE POLYCARBONATE BARRIER COORDINATED AND SUPPLIED BY INSTALLING CONTRACTOR DMX EQUIPMENT TO BE HOUSED IN A REMOTE ACCESSIBLE LOCATION LOCATION: SENSORY ROOMS

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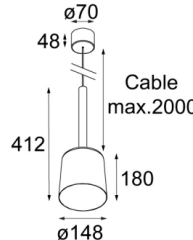
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Type	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
PL1		EXTERNAL POLE TOP MOUNTED LUMINAIRE TO MATCH EXISTING	WE-EF RFL530. MOUNTED ON 6m HIGH POLE. RAL9006 WHITE ALUMINIUM TO MATCH EXISTING R65 RECTANGULAR 'SIDE THROW' LIGHT DISTRIBUTION 111-0419	STRAMAC LIGHTING GAVIN MACRAE Email: gavin@stramaclighting.com.au Mobile: 0418 497 814	Dia: 460mm H: 6,000mm	CCT: 3000K CRI: 80 Lumens: 5903lm (48W) MacAdam: 3 L90 B10 @ 90,000 hours IP: 66 IK: 07	LOCATION: OUTDOOR CARPARK CONNECT TO EXISTING LIGHTING CONTROL. SUPPLY WITH SINGLE POLE BRACKET FOR MOUNTING COLOUR TEMPERATURE TO MATCH EXISTING CARPARK LIGHTING (CONFIRM 3000K PRIOR TO ORDERING)
PL2		EXTERNAL POLE TOP MOUNTED LUMINAIRE	WE-EF RFL530. MOUNTED ON 4m HIGH POLE. RAL9006 WHITE ALUMINIUM TO MATCH EXISTING S65 STREETLIGHTING LIGHT DISTRIBUTION 111-0463	STRAMAC LIGHTING GAVIN MACRAE Email: gavin@stramaclighting.com.au Mobile: 0418 497 814	Dia: 460mm H: 4,000mm	CCT: 3000K CRI: 80 Lumens: 2995lm (24W) MacAdam: 3 L90 B10 @ 90,000 hours IP: 66 IK: 07	LOCATION: FRONT ENTRY PARKING CONNECT TO EXISTING LIGHTING CONTROL. SUPPLY WITH SINGLE POLE BRACKET FOR MOUNTING
P1		DECORATIVE PENDANT TO VISITOR AREAS	MODULAR TULIP BLOOM, WHITE STRUCTURE, GOLD INTERIOR	MODULAR LIGHTING AND PARTNERS ROBBIE JACOBS Email: robbie.j@modular.partners Phone: 1300 101 433 Mobile: 0433 238 032		CCT: 2700K Lumens: 381lm (9W) IP: 20	LOCATION: VISITOR WAITING KNX/ DALI RELAY ACTUATOR

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P2		DECORATIVE PLANTATION OAK PENDANT TO VISITOR AREAS	SATELIGHT PROTEA TEAR PENDANT LIGHT SUPPLY WITH 8W E27 LED BULB	SATELIGHT KATRINA WARD Email: katrina@satelight.com.au Phone: 9399 5805 Mobile: 0401 847 203	Dia: 300mm	CCT: 2700K Lumens: 400lm (8W) IP: 21	LOCATION: FAMILY LOUNGE KNX/ DALI RELAY ACTUATOR
PIR1		RECESSED KNX MOTION SENSOR, WHITE	KNX MOTION SENSOR. PRESENCE DETECTION DIMMABLE	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	Dia: 75	12m Dia DETECTION RANGE IP: 44	
PIR2		RECESSED KNX MOTION SENSOR, WHITE	KNX MOTION SENSOR. ABSENCE DETECTION DIMMABLE	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	Dia: 75	12m Dia DETECTION RANGE IP: 44	

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PIR3		RECESSED KNX MOTION SENSOR, WHITE	KNX MOTION SENSOR. PRESENCE DETECTION ON/OFF SWITCHING	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	Dia: 75	12m Dia DETECTION RANGE IP: 44	
LCP1		WALL MOUNTED LIGHTING CONTROL PANEL - TOUCH SCREEN, BLACK	ABB KNX TOUCH SCREEN MASTER PANEL FOR SENSORY ROOMS RT/U30.0.1-825	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 144mm H: 80mm	KNX	LOCATION: SENSORY ROOMS ALL LIGHTING TYPES TO BE SEPARATELY CONTROLLED, SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE DURING COMMISSIONING SESSION. ALLOW FOR MANUAL ADJUSTABILITY OF ALL LIGHTING SCENES
LCP2		WALL MOUNTED LIGHTING CONTROL PANEL - TOUCH SCREEN, BLACK	ABB KNX TOUCH SCREEN MASTER PANEL FOR NURSE STATIONS RT/U30.0.1-825	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235	L: 144mm H: 80mm	KNX	LOCATION: NURSE STATIONS FOR MANUAL CONTROL AND DIMMING OF ALL CORRIDOR LIGHTING. ALLOW FOR SEPARATE DIMMING CONTROL FOR EACH INDIVIDUAL CORRIDOR CIRCUIT. SWITCHES TO BE LABELLED PER CORRIDOR

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LCP3		WALL MOUNTED LIGHTING CONTROL PANEL - 6 BUTTON SWITCH PANEL	ABB I-BUS KNX ZENIT RANGE SWITCH PANEL SYMBOLS TO BE EMBOSSED ON BUTTONS	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235		KNX	LOCATION: PATIENT BEDROOM TO BE PROGRAMMED AS FOLLOWS: - ALL ON 100% - DOWNLIGHTS DIM 50% - NIGHT LIGHTS DIM 50% - DOWNLIGHTS DIM 25% - NIGHT LIGHTS DIM 25% - ALL OFF SWITCHES TO BE LABELLED
LCP4		WALL MOUNTED LIGHTING CONTROL PANEL - 2 BUTTON SWITCH PANEL	ABB I-BUS KNX ZENIT RANGE SWITCH PANEL SYMBOLS TO BE EMBOSSED ON BUTTONS. WHITE COVER PLATE TO HAVE LIGHT DIMMER SYMBOL.	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235		KNX	LOCATION: PATIENT ENSUITE TO BE PROGRAMMED AS FOLLOWS: - DOWNLIGHTS ON/OFF/DIMMED - NIGHT LIGHT ON/OFF/DIMMED SWITCHES TO BE LABELLED
		KNX/ DALI GATEWAY	ABB DALI GATEWAY DG/S 2.64.x.1	ABB SUNIL ABRAHAM Email: sunil.abraham@au.abb.com Mobile: 0448 538 235			CONTROLS UP TO 2 x 64 DALI DEVICES BOTH VIA 2 x 16 FLEXIBLE DALI AND KNX LIGHTING GROUPS