TAMWORTH MENTAL HEALTH UNIT



ELECTRICAL DRAWING INDEX

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A 24.02.2023 BIM DRA REV DATE BY DRAWING STATUS:		SK SK CHK APP					
DR	AFT DETAIL DESI	GN					
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ARCHITECT:	VER THOMAS HANL	.EY					
PROJECT: TAMWORTH MENTAL HEALTH UNIT							
ELECTRICAL SERVICES COVER PAGE AND DRAWING INDEX							
SCALE @ A0: NTS	CHECKED: SK	APPROVED: SK					
PROJECT NUMBER: PS123315	DRAWN: AL	DATE: NOV 2022					
DRAWING NO: A2B-WSP-	-DRW-ELE-E10-00	00 REV:					
© WSP Australia Pty Ltd							

NOTE: THIS DRAWING HAS BEEN

LUMINAIRES		POWER
An	INDICATES TYPE. REFER TO THE SCHEDULE OF LUMINAIRES IN THE ELECTRICAL SPECIFICATION FOR DETAILS.	n
<u>н</u>	SURFACE MOUNTED/SUSPENDED, SINGLE LAMP LED LUMINAIRE	${\leftarrow}$
	RECESSED RECTANGULAR LED LUMINAIRE	\frown
Ø	SURFACE MOUNTED WALL LUMINAIRE	_
0	DOWNLIGHT	
Φ	DECORATIVE PENDANT LIGHT	
	LED LINEAR LUMINAIRE	∧ ^x
		211
		\neg
Ψ	TASK LIGHTING	\prec
$\mathbf{V}^{\mathbf{O}}$	EXAMINATION LUMINAIRE	\checkmark^{8}
⊷ •	POLE MOUNTED LUMINAIRE	_
	POLE MOUNTED LUMINAIRE, EXISTING	_
●● H1 H1	HANDRAIL LIGHTS	- X
		ሶ
EMERGENCY	LUMINAIRES & EXIT SIGNS	다
Π	INDICATES TYPE (REFER SCHEDULE OF LUMINAIRES FOR DETAILS AND C0, C90 CLASSIFICATIONS)	
	EMERGENCY LUMINAIRE INCORPORATED IN	
	EMERGENCY LUMINAIRF	
- -	EXIT SIGN	汆
₹ →	DOUBLE SIDED EXIT SIGN WITH DIRECTIONAL ARROW	S
—		$\textcircled{\bullet}$
LIGHTING/SW	TCHING CONTROL	FB
6	ONE-WAY SWITCH	
ø	TWO WAY SWITCH	
, F		
√		
٩,	TWO-WAY LOCAL DIMMER SWITCH	
LCP	LIGHTING CONTROL PANEL	
c)	MOTION DETECTOR	CP
LIGHTING CO	NTROL TYPES:	
LC1	LIGHTING CONTROL TO PATIENT BEDROOMS. MANUAL 6 BUTTON LIGHTING CONTROL PANEL TO BE	MSP1
	- ALL ON 100% - DOWNLIGHTS DIM 50% - NIGHT LIGHTS DIM 50%	
	- NIGHT LIGHTS DIM 25% - NIGHT LIGHTS DIM 25% - ALL OFF	
	ALLOW FOR SEPARATE SWITCHING/DIMMING OF DOWNLIGHT ABOVE PATIENT BED TO BE USED AS READING LIGHT.	MSP2
	SWITCHES TO BE LABELLED.	
1 C?		
-02	TOUCH SCREEN LIGHTING CONTROL PANEL. ALL LIGHTING TYPES TO BE SEPARATELY CONTROLLED.	
	SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE	
	SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE DURING COMMISSIONING SESSION. ALLOW FOR MANUAL ADJUSTABILITY OF ALL LIGHTING SCENES.	\bowtie
LC3	SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE DURING COMMISSIONING SESSION. ALLOW FOR MANUAL ADJUSTABILITY OF ALL LIGHTING SCENES. LIGHTING CONTROL TO CORRIDORS.	
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LC3 LC4 LC5	SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE DURING COMMISSIONING SESSION. ALLOW FOR MANUAL ADJUSTABILITY OF ALL LIGHTING SCENES. LIGHTING CONTROL TO CORRIDORS. PRESENCE DETECTION WITH MOTION SENSOR WITH 20 MINUTE RUN-ON TIME. MANUAL OVERRIDE SWITCH LOCATED AT NURSE'S STATION FOR MANUAL DIMMING OF ALL CORRIDOR LIGHTING. ALLOW FOR SEPERATE DIMMING CONTROL FOR EACH CORRIDOR CIRCUIT. SWITCHES TO BE LABELLED. ABSENCE DETECTION. MOTION SENSOR AND DIMMABLE SWITCH WITH 20 MINUTE RUN-ON TIME. PRESENCE DETECTION.	
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LC3 LC4 LC5 LC6	SWITCHED AND DIMMED. PRE-SET SCENES TO BE DETERMINED ON SITE DURING COMMISSIONING SESSION. ALLOW FOR MANUAL ADJUSTABILITY OF ALL LIGHTING SCENES. LIGHTING CONTROL TO CORRIDORS. PRESENCE DETECTION WITH MOTION SENSOR WITH 20 MINUTE RUN-ON TIME. MANUAL OVERRIDE SWITCH LOCATED AT NURSE'S STATION FOR MANUAL DIMMING OF ALL CORRIDOR LIGHTING. ALLOW FOR SEPERATE DIMMING CONTROL FOR EACH CORRIDOR CIRCUIT. SWITCHES TO BE LABELLED. ABSENCE DETECTION. MOTION SENSOR AND DIMMABLE SWITCH WITH 20 MINUTE RUN-ON TIME. PRESENCE DETECTION. MOTION SENSOR ONLY WITH 20 MINUTE RUN-ON TIME. LIGHTING CONTROL TO PATIENT ENSUITE. MANUAL 2 BUTTOM SWITCH TO BE PROGRAMMED AS FOLLOWS:	

SWITCHES TO BE LABELLED.

LIGHTING TO OPEN PLAN WORK AREAS TO BE ON TIMER CONTROL TO OPERATE FROM 7AM - 7PM (UNLESS NOTED OTHERWISE). PRESENCE DETECTION FOR AFTER HOURS.

MANUAL SWITCH ONLY

LC7

LC8

INDICAT	ES RATING IN AMPS. 10 AMPS UNLESS OTHERWISE NOTED
10A, 240	V SINGLE SWITCHED SOCKET OUTLET (GPO)
10A 240' y - NUMI	V MULTIPLE SWITCHED SOCKET OUTLET (GPO) BER OF OULETS
10A, 240	V ESSENTIAL SINGLE SOCKET OUTLET
10A, 240	V UPS ESSENTIAL SINGLE SOCKET OUTLET
MULTI-P x - NUM	HASE SWITCHED SOCKET OUTLET BER OF PHASES
10A SIN	GLE SWITCHED SOCKET OUTLET WITH SINGLE USB CHARGING OUTLET
10A 240	V DOUBLE SWITCHED SOCKET OUTLET (DGPO)
10A 240	V LOCKABLE TYPE DOUBLE SWITCHED SOCKET OUTLET
10A, 240	V ESSENTIAL DOUBLE SOCKET OUTLET
10A, 240	V UPS ESSENTIAL DOUBLE SOCKET OUTLET
10A 240'	V SWITCHED ROUND PIN EARTH SOCKET OUTLET
on-loa x - Num	D ISOLATOR C/W PROVISION TO LOCK IN OPEN POSITION BER OF PHASES
DIRECT A - TYPF	WIRED CONNECTION E OF EQUIPMENT
CARDIA	C PROTECTED. ZONE TO AS3003.
BODY P	ROTECTED. ZONE TO AS3003.
SERVIC	EPOLE
EMERGI	ENCY STOP PUSH BUTTON
FLUSH M - 2x DOU - 1X DOU	MOUNT FLOOR BOX - SQUARE STAINLESS JBLE POWER OUTLET JBLE DATA OUTLET
MAIN SV	VITCHBOARD (MSB)
FDB	FIRE DISTRIBUTION BOARD
HDB CDB	HYDRAULICS DISTRIBUTION BOARD COMMUNICATIONS DISTRIBUTION BOARD
TBD	TRANSPORTATION DISTRIBUTION BOARD
DISTRIB	UTION BOARD BY OTHERS
MSSB MP	MECHANICAL SERVICES SWITCHBOARD METER PANEL
MCP	MOTOR CONTROL PANEL
LIM	LINE ISOLATION MONITOR
MEDICA - 1x Med	L SERVICE PANEL TYPE 1 DICAL AIR AND AIR FLOWMETER
- 1x OXY - 1x PAT	GEN (O2) AND OXYGEN FLOWMETER
- 1x DOL	JBLE ESSENTIAL POWER OUTLET
- 1x DOL - 1x RES - 1x DOL	IDUAL CURRENT DEVICE IBLE DATA OUTLET
MEDICA	L SERVICE PANEL TYPE 2
- 2x RES - 3x SIN0	IDUAL CURRENT DEVICE GLE NON-ESSENTIAL SOCKET OUTLET
- 2x SIN0 - 1x SUC	GLE ESSENTIAL SOCKET OUTLET TION AND SUCTION ADAPTOR
- 1x MEE - 1x OXY	DICAL AIR AND AIR FLOWMETER GEN (O2) AND OXYGEN FLOWMETER
- 2x NUF	SE CALL BUTTON
- 1x PAT	IENT CALL HANDSET
E - EXIS X - TO B R - RET	TING E REMOVED AIN
EXISTIN	G FUSE POINT DTES TO BE RELOCATED
EXISTIN R - DEN	G CABLE JUNCTION BOX DTES TO BE RELOCATED
SKIRTIN 25mm D	G DUCT, DIVISIONS INDICATE №. OF CHANNELS IA CONDUIT DROPPERS TO SKIRTING DUCT
POWER	CONDUIT
COMMU	NICATONS CONDUIT
DB ZON	
LV POW n - DENO	ER CABLE LADDER/TRAY DTES WIDTH
HV POW n - DENO	/ER CABLE LADDER/TRAY DTES WIDTH
	NICATIONS CABLE LADDER/TRAY DTES WIDTH
11 - DL	

	DNS	ELECTRICAL SCHEMATICS				
∇	RJ45 TELECOMMUNICATIONS OUTLET CATEGORY 6A		SINGLE PHASE			
	n INDICATES NUMBER OF POINTS		TWO PHASE			
▼	DUAL RJ45 TELECOMMUNICATIONS OUTLET CATEGORY 6A		THREE PHASE			
V	TRIPLE R.145 TELECOMMUNICATIONS OUTLET CATEGORY 6A	lsc n	BUSBAR			
• ⊾, TV			n INDICATES BUSBAR RATING IN AMPS			
	TV MATV		INDICATES AVAILABLE STIVIVIETRICAL FAULT LEVELS			
	R RADIO OUTLET		CIRCUIT LINE (SCHEMATICS)			
			CONTROL WIRING (SCHEMATICS)			
	E - EXISTING	+	JOINED			
	X - TO BE REMOVED R - RETAIN		JUMPED			
		► n				
<u>SECURITY</u>		~+~~~	ISOLATOR SWITCH n RATING IN AMPS			
\bigcirc	DOOR MONITOR (REED RELAY)					
\mathbf{O}	ELECTRIC LOCK	- p - v -	n RATING IN AMPS			
	EM ELECTROMAGNETIC ES ELECTRIC STRIKE		CIRCUIT BREAKER			
	ML MORTICE LOCK		n RATING IN AMPS m MAXIMI IM RATING IN AMPS			
$oldsymbol{eta}$	PUSH BUTTON					
_	RX REQUEST TO EXIT RE REQUEST TO ENTER	— ×	SPACE FOR FUTURE CIRCUIT BREAKER n RATING IN AMPS			
_						
\vee	INTERCOM V INDICATES VIDEO		TRANSFORMER			
	M MASTER INTERCOM POINT	\mathbf{C}				
●						
	H DURESS HELP POINT	ĸvvn	MD INDICATES MAXIMUM DEMAND			
	CARD READER					
		EM	MULTI-FUNCTION METER			
M	RELEASE IN FIRE MODE	P				
			SHUNT SURGE DIVERTER			
		\otimes	INDICATOR LIGHT			
			FARTHING SWITCH			
$\langle \beta \rangle$	SECURITY CAMERA (360 DEGREES)					
		G	GENERATOR			
F						
TCM	THIN CLIENT MONITOR					
	SECURITY BREAK GLASS DOOR RELEASE					
ADI	AUTO DOOR INTERFACE	SITE PLAN LINE-	TYPE SCHEDULE			
KP	INTERCOM KEYPAD	—x— — x—	EXISTING UNDERGROUND COMMS CABLING AND CONDUIT TO BE REMOVED AS PART OF SITE WORKS.			
MSCP	MSCP MASTER SECURITY CONTROL PANEL					
	SCF SECONTROLFANEL	—X— — X—	EXISTING UNDERGROUND POWER CABLING AND CONDUIT TO BE REMOVED AS PART OF SITE WORKS			
SWS	SECURITY / CCTV AND ACCESS CONTROL					
	WORKOTATION / HEAD-END GERVER	—C— —C—	EXISTING UNDERGROUND COMMS CABLING			
-ờ-	STROBE LIGHT		AND CONDULT TO REMAIN.			
		PP	EXISTING UNDERGROUND POWER CABLING			
H	HELP POINT		AND CONDUIT TO REMAIN.			
			NEW UNDERGROUND			
		<u> </u>	COMMS CABLING AND CONDUIT.			
	SECURITY SERVICES DOOR OPERATION LEGEND		NEW LINDERGROUND			
	RED FIRE DOORS TO RELEASE UNDER FIRE ALARM	—Y——Y—	POWER CABLING AND CONDUIT.			
	ORANGE DOORS TO FAIL SECURE UNDER FIRE ALARM					
NURSE CALL						

NURSE CALL

EC	EMERGENCY (RED)
NC	NURSE CALL (GREEN)
NC/R	NURSE CALL IN DROP RAIL
NC/P	NURSE CALL IN PENDANT
SA	STAFF ASSIST (YELLOW)

× NCAP

NCAP NURSE CALL ANNUNCIATOR PANEL ARROW DENOTES VIEWING SIDE

CEILING MOUNTED INDICATOR LAMP

NOMENCLATURE

AB A/C

AD

AV

CB

CM

CS

DW DR

ESS

HD HWS

> MB MD MM

> > MW

PR

RCD

RFF

UR

UPS

WM WP

W

RD

ATM B/CWU

ABOVE BENCH AIR CONDITIONING UNIT AUTODOOR SUPPLIED FROM AUDIO VISUAL DISTRIBUTION BOARD AUTOMATIC TELLER MACHINE BOILING/CHILLED WATER UNIT CHILLI BILLI CLEANERS OUTLET CEILING MOUNTED CAPTIVE SCREW DEDICATED CIRCUIT DISHWASHER ESSENTIAL POWER FAX FLOOR MOUNTED OUTLET TO SERVE FLUSH SENSOR ELECTRIC HAND DRYER HOT WATER SERVICE MOUNTED IN CEILING SPACE ICE MAKER MACHINE TO SERVE MOTORISED BLIND TO SERVE MOTORISED DOOR CONTROLLER MULTIMEDIA EQUIPMENT OUTLET SERVICES MICROWAVE NIGHT LIGHT OVEN IGNITOR PRINTER/PHOTOCOPIER PROJECTOR RCD PROTECTED ROLLER DOOR RANGEHOOD REFRIGERATOR STARTER SOCKET UNDER BENCH SUPPLIED FROM UPS DISTRIBUTION BOARD WALL MOUNTED WASHING MACHINE WEATHER PROTECTED (IP56)

PF OF FC CL TC	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 DATE	BIM DR	AFT DETAIL DESIGN	SK Снк	SK	
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CLIENT	Le : rect:	evel 27, 6 Tel: +61 HEA	580 George Street, Sydney, -2-9272-5100 Fax: +61-2-9, http://www.wsp.com) NSW 2000 272-5101 URE _EY		
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CLIENT	Le : rect: Ect: T,	evel 27, 6 Tel: +61 HEA SIL AMWO	680 George Street, Sydney, -2-9272-5100 Fax: +61-2-9. http://www.wsp.com ALTH INFRASTRUCT VER THOMAS HANL VER THOMAS HANL WRTH MENTAL HEAL ECTRICAL SERVICE EGEND OF SYMBOL	NSW 2000 272-5101 URE LEY TH UNIT ES .S		
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CLIENT ARCHIT PROJU TITLE SCALE		evel 27, 6 Tel: +61 HEA SIL AMWO EL LI	680 George Street, Sydney, -2-9272-5100 Fax: +61-2-9. http://www.wsp.com LTH INFRASTRUCT VER THOMAS HANL VER THOMAS HANL VER THOMAS HANL ECTRICAL SERVICE EGEND OF SYMBOL CHECKED: SK DRAWN: AL	NSW 2000 272-5101 URE LEY TH UNIT ES S S APPROVED: SK DATE: NOV 2022		
CLIENT ARCHIT PROJU TITLE SCALE PROJEC	ECT: (@ A0: TECT: ECT: CT NUMBER: PS12331 ING No: A2E	evel 27, 6 Tel: +61: HEA SIL AMWO EL LI	B80 George Street, Sydney, -2-9272-5100 Fax: +61-2-9. http://www.wsp.com ALTH INFRASTRUCT VER THOMAS HAND VER THOMAS HAND VER THOMAS HAND VER THOMAS HAND CHECKED: SK DRAWN: AL	NSW 2000 272-5101 URE EY TH UNIT ES S APPROVED: SK DATE: NOV 2022 D1	A	



NOTES:

- 1. FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- 2. ALL WORK TO BE DONE IN ACCORDANCE WITH AS/NZS 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 AS/NZS 3000:2018 AMDT 2 CLAUSE 2.6.2.2.1.
- 6. THE SWITCHTING OF POWER FEED FROM EXISTING BOARD TO NEW BOARD WILL REQUIRE POWER SHUTDOWN PERIOD TO ANBULANCE WORKSHOP AND HELIDPAD DB. THE CONTRACTOR SHALL LIAISE THE POWER SHUTDOWN WITH LHD AND SHALL PROCEED ONLY AFTER APPROVAL FROM LHD. IF REQUIRED TEMPORARY GENERATOR SHALL BE PROVIDED FOR HELIPAD DB.

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A REV DRAV	24.02.2023 DATE WING STATUS:	BIM BY	DRAFT DETAIL DESCRIPTION	SK CHK	SK			

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ARCHITECT:	SILVER THOMAS HANLEY			
PROJECT:				

TAMWORTH MENTAL HEALTH UNIT ELECTRICAL SERVICES ELECTRICAL SINGLE LINE DIAGRAM

CALE @ A0: CHECKED: APPROVED:				
NTS	SK	SK		
PROJECT NUMBER:	DRAWN:	DATE:		
PS123315	AL	NOV 2022		
DRAWING No:		REV:		
A2B-WSP-DRW-ELE-E10-010			А	
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LEVEL 03

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LEVEL 02 _____

LEVEL 01

LOWER GROUND

INTERNAL TIE CABLING 12 CORE MULTIMODE (OM4) 12 CORE SINGLE MODE (OS1) + **30 PAIR COPPER**

INTERNAL TIE CABLING 12 CORE MULTIMODE (OM4) 12 CORE SINGLE MODE (OS1) + 30 PAIR COPPER

EXISTING FIBRE RUN FROM DOCTORS ACCOMODATION TO BE PULLED BACK , SPLICED AND

RUN TO NEW BANKSIA BUILDING.



L_____

TO EXISTING RACKS AT ACUTE SERVICE BUILDING MAIN COMMUNICATIONS

DO NOT SCALE

GENERAL NOTES:

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









CABLE REFERENCE	DESCRIPTION	CORES	CABLE SIZE (mm ²)	CONDUCTOR (ACTIVE)	INSULATION	SHEATH	NEUTRAL SIZE (mm²)	EARTH SIZE (mm ²
1	MDB-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-L01-01	ТВС	ТВС	ТВС	ТВС	ТВС	TBC	ТВС
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	ТВС	ТВС	TBC	ТВС	ТВС	ТВС
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.V	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	ТВС	ТВС	ТВС	ТВС	ТВС	ТВС	TBC
26	/MSSB-L03-02/	ТВС	ТВС	ТВС	ТВС	ТВС	ТВС	ТВС
//_27//////////////////////////////////		твс	ТВС	ТВС	ТВС	TBC	ТВС	ТВС

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

UPS SYSTEM SINGLE-LINE DIAGRAM

DO NOT SCALE

GENERAL NOTES:.

- 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.
- 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. ALL BREAKER AND CABLE SIZES ARE TO BE FINALIZED ON NEXT STAGE OF DESIGN.
- 7. ALL SIZES (CIRCUIT BREAKER, CABLES, GENERATOR, ETC.) ARE TO BE FINALIZED ON NEXT DESIGN STAGE.

NOTE: THIS DRAWING HAS B PRODUCED WITH THE INTENT OF BEING VIEWED IN A COLO FORMAT FOR THE PURPOSE CLARITY. DO NOT COPY OR F TO BLACK AND WHITE.	EEN FION UR OF PRINT
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Level 27, 680 George Street, Sydney, NSW 2 Tel: +61-2-9272-5100 Fax: +61-2-9272-510 http://www.wsp.com	2000 D1
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LEVEL 03

LEVEL 02

LEVEL 01

EC

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GENERAL NOTES:.

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- 6. FOR ACTUAL QUANTITY OF NURSE CALL, CONTRACTOR TO REFER TO THE NURSE CALL LAYOUTS, ROOM DATA SHEETS AND ROOM LAYOUT SHEETS.







LEVEL 1

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DO NOT SCALE

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- 5. COORDINATE FINAL LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH OTHER TRADES ON SITE. REFER TO ARCHITECTURAL, MECHANICAL AND FIRE DOCUMENTATION AS APPROPRIATE.
- 6. FOR ACTUAL QUANTITY OF SECURITY DEVICES REFER TO SECURITYL LAYOUTS, ROOM DATA SHEETS AND ROOM LAYOUT SHEETS.





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.

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L3 LINEAR LUMINAIRE RECESSED INTO CEILING COVE DETAIL N.T.S

> L5 LINEAR LUMINAIRE SURFACE MOUNTED WITHIN COVE





L5 LINEAR LUMINAIRE COVE INSTALLATION DETAIL N.T.S

DO NOT SCALE

GENERAL NOTES:.

- 1. DRAWING TO BE READ IN CONJUNCTION WITH DRAWING ELE-E30-200 LIGHTING LAYOUT -LEVEL 02.
- 2. 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.

- 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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- 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

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES

LIGHTING DETAILS

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GENERATOR ROOM DETAIL 1:20



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. GENERATOR EXHAUST FLUE TO BE MINIMUM 6m FROM ANY AIR INTAKES.
- 6. DIMENSIONS OF GENERATOR ARE BASED ON CUMMINS C220 D5E.
- 7. THE FUEL VENT LINE SHALL BE PROVIDED MINIMUM OF 3m ABOVE THE FILL POINT.
- 8. THE FUEL TANK SHALL BE 4 HOUR FIRE RATED DOUBLE SKINNED SELF BUNDED.
- 9. ALL ELECTRICAL INSTALLATIONS SHALL BE IN STRICT ACCORDANCE WITH AS/NZ3000 ELECTRICAL WIRING RULES AND AS/NZ3009:1998.
- 10. GENERATOR DETAIL DESIGN IS TO BE FINALIZED ON NEXT DESIGN STAGE.
- 11. GENERATOR SIZE IS TO BE FINALIZED ON NEXT DESIGN STAGE.

<u>NOTE:</u> THIS PRODUCED OF BEING VI FORMAT FO CLARITY. DO TO BLACK A	DRAWING HA WITH THE INT EWED IN A CO R THE PURPC O NOT COPY O ND WHITE.	AS BEEN TENTION OLOUR OSE OF OR PRINT
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-0-R EX R EX 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. R o EX LP 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. R o EX LP 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. $R \circ \frac{EX}{IP}$ 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. R^OEX LP





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
\square	EXISTING COMMS PIT X DENOTES TO BE REMOVED.
$\overline{\mathbf{X}}$	EXISTING POWER PIT X DENOTES TO BE REMOVED.
O EX LP	EXISTING LIGHT POLE X - TO BE REMOVED. R - RETAIN.

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

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SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES EXSTING SITE PLAN - ELECTRICAL AND ICT SITE

> SK NOV 2022

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<u>GENERAL NOTES:</u>.

- 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.
- 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. ALL DISTRUPTIONS RESULTING AS PART OF THE WORKS SHALL BE APPROVED BY LHD. PROVIDE WORK METHOD STATEMENT TO LHD PRIOR TO WORKS.

LEGEND:-C--C-EXISTING UNDERGROUND
COMMS CABLING AND CONDUIT.-P--P-EXISTING UNDERGROUND
POWER CABLING AND CONDUIT.-C--C-NEW UNDERGROUND COMMS
CABLING AND CONDUIT.-P--P-NEW UNDERGROUND POWER
CABLING AND CONDUIT.P--P-NEW UNDERGROUND POWER
CABLING AND CONDUIT.Image: Demotes existing of the proposed comms pit
E DENOTES EXISTING.Image: Demotes existing of the 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.

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES PROPOSED SITE PLAN - ELECTRICAL AND ICT SHEET 2

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NEW POWER CABLING FOR NEW LIGHTS AND BOOM GATES TO BE SERVICED FROM EXISTING DB-H.

EXISTING DB-H. -

EXISTING COMMS RACK. -

COMMS CABLING FOR CCTV TO BE —— RETICULATED FROM EXISTING COMMS RACK IN THE HELIPAD BUILDING.

<u>р____</u>Р_____

2 x 100mm HDUPVC CONDUITS FOR COMMS CABLING FOR CONTRACTOR'S SHED. REFER DRAWING ELE-E10-031 FOR CONTINUATION.

2 x 100mm HDUPVC CONDUITS FOR POWER CABLING FOR CONTRACTOR'S SHED. REFER DRAWING ELE-E10-031 FOR CONTINUATION.

DO NOT SCALE

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- 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.
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- 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.
- 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 GPOS FOR MICRON AUTOMATIC BACKWASH FILTERS. LOCATION AND REQUIREMENT TO BE COORDINATED WITH HYDRAULIC SERVICES.
- PROVIDE 2 NOS. 10A, 1PH GPOS 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.
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TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES

POWER AND COMMS LAYOUT - LEVEL 01

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- DRINKING WATER WATER PRESSURE VARIABLE SPEED DRIVE PUMP (VSD). LOCATION TO BE COORDINATED WITH HYDRAULICS SERVICES.

- HORIZONTAL DISCHARGEA2W HEAT PUMPS. LOCATION TO BE COORDINATED WITH

HYDRAULICS SERVICES.

- PRIMARY CIRUCLATING HEATED WATER. LOCATION TO BE COORDINATED WITH HYDRAULICS SERVICES.

- ELECTRIC HEATERS. LOCATION TO BE COORDINATED WITH HYDRAULICS SERVICES.

- SECONDAY HEATED WATER CIRCULATING PUMP. LOCATION TO BE COORDINATED WITH HYDRAULICS SERVICES.

D \checkmark

- NON-DRINKING WATER SUBMERSIBLE FIXED SPEED PUMPS. LOCATION TO BE COORDINATED WITH HYDRAULICS SERVICES.

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- 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.
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- 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.

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HEALTH INFRASTRUCTURE SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT ELECTRICAL SERVICES POWER AND COMMS LAYOUT PART 2 - LEVEL 02

SCALE @ A0: 1:100 SK SK PROJECT NUMBER: NOV 2022 PS123315 A2B-WSP-DRW-ELE-E20-201 А

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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.
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CLIENT:

HEALTH INFRASTRUCTURE

SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES POWER AND COMMS LAYOUT - LEVEL 03

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- GENERAL NOTES: 1. FOR LEGEND AND SYMBOLS REFER TO DRW-ELE-E10-001.
- 2. DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- 3. ALL WORKS TO BE DONE IN ACCORDANCE WITH AS/NZS 3000.
- 4. 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.
- 7. FOR LIGHTING CONTROL TYPES (LC#) 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.
- 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 ARCHIECT. 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.

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- 12. 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.
- 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 AS/NZS 1158.3.1 AS FOLLOWS: 15.1 PEDESTRIAL PATHWAY : PP3

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- 15.2 CARPARKNG: PC2 15.3 DISABLED CARPARK: PCD
- 15.4 PEDESTRIAN CROSSING: PCX

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SK SK CHK APP DESCRIPTION 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 HEALTH INFRASTRUCTURE SILVER THOMAS HANLEY TAMWORTH MENTAL HEALTH UNIT ELECTRICAL SERVICES LIGHTING LAYOUT PART 1 - LEVEL 02 Scale @ A 1:100 SK SK PROJECT NUMBER:

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GENERAL NOTES:

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- 15.2 CARPARKNG: PC2 15.3 DISABLED CARPARK: PCD
- 15.4 PEDESTRIAN CROSSING: PCX

- LIGHTING CONTROL FOR W2 COURTYARD LIGHTING TO BE SWITCHED WITH CORRIDOR CIRCUITS, MANUALLY CONTROLLED AT NURSE STATIONS.

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- 12. W2 COURTYARD LIGHTING TO BE MANUALLY CONTROLLED VIA LCP2 CONTROL PANEL IN STAFF ROOM.
- 13. B1 SUSPENDED BATTENS SHOWN IN PLANT ROOM. REVERSED AIR COOLED CHILLER AND AIR COOLED CHILLER TO BE COORDINATED WITH MECHANICAL SERVICES EQUIPMENT

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- 5. 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.

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

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Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101

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HEALTH INFRASTRUCTURE

SILVER THOMAS HANLEY

TAMWORTH MENTAL HEALTH UNIT

ELECTRICAL SERVICES SECURITY LAYOUT PART 1 - LEVEL 02

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1 x 600mm CABLE TRAY FOR POWER CABLING (NORMAL). 1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLING (ESSENTIAL).			
600mm CABLE TRAY FOR			
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00mm CABLE TRAY FOR	BUILDING ABOVE		FORECOURT GARDEN
x 600mm CABLE TRAY FOR OWER CABLING (NORMAL). x 600mm FIRE RATED CABLE TRAY OR POWER CABLING (ESSENTIAL).			
FOR CABLING TO LEVEL 2 AND LEVEL 3 ABOVE. 2 x 600mm CABLE TRAY FOR COMMS/SECURITY/NURSE CALL CABLING			
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— 700 x 350mm COMMS RISER FOR CABLING TO BE RETICULATED AT HIGH LEVEL AND RISE TO COMMS ROOM ABOVE IN LEVEL 2.

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

— 2 x 600mm CABLE TRAY FOR COMMS/SECURITY/NURSE CALL CABLING FROM MAIN COMMS ROOM TO LEVEL 2 ABOVE. - 1 x 600mm CABLE TRAY FOR POWER CABLING (NORMAL). 1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLING (ESSENTIAL). — 1 x 300mm CABLE TRAY FOR POWER CABLING (NORMAL). - 1 x 600mm FIRE RATED CABLE TRAY

FOR POWER CABLING (ESSENTIAL).

— 200 kVA STANDBY DIESEL GENERATOR BASED ON CUMMINS MODEL C220D5e. REFER TO DRW-ELE-E10-021 FOR GENERATOR DETAIL. TBC — 1 x 300mm FIRE RATED CABLE TRAY FOR POWER CABLING (ESSENTIAL).

— 1200 FUEL TANK

—(D) \checkmark — 1 x 600mm CABLE TRAY FOR POWER CABLING (NORMAL). 1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLING (ESSENTIAL). — 1400 x 200mm ELECTRICAL CABLING TO RETICULATED AT HIGH LEVEL AND RISE TO ELECTRICAL CUPBOARD ABOVE IN LEVEL 2. \frown **C**

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		1 x 600mm CABLE TRAY FOR POWER CABLING (NORMAL). 1 x 600mm FIRE RATED CABLE TRAY FOR POWER CABLING (ESSENTIAL). 600mm CABLE TRAY FOR COMMS CABLING.
 	 	 700 x 350mm COMMS RISER FOR —— CABLING FROM LEVEL 1 MAIN COMMS ROOM BELOW TO LEVEL 3 ABOVE. 1300 x 200mm ELECTRICAL RISER FOR CABLING TO BE RETICULATED AT HIGH LEVEL AND RISE TO ELECTRICAL/COM CUPBOARD IN LEVEL 3.
 		2000m x 800m ELECTRICAL CUPBOARE 1400 x 200mm ELECTRICAL CABLING - RETICULATED FROM BELOW LEVEL 1.

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 SK SK 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 ARCHITEC SILVER THOMAS HANLEY TAMWORTH MENTAL HEALTH UNIT ELECTRICAL SERVICES CABLE RETICULATION LAYOUT - LEVEL 03 SCALE @ A0 1:100 SK SK PROJECT NUMBER: DRAW NOV 2022 PS123315 A2B-WSP-DRW-ELE-E50-300 А © WSP Australia Pty Ltd

- 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.
- DRAWING TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER SERVICES DRAWINGS.
- 4. 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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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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> A2B-WSP-DRW-ELE-E60-100 © WSP Australia Pty Ltd

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DRAWING CREATED IN REVIT

GENERAL NOTES:

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EXISTING ESSENTIAL DB EDB-G2

- 1. 2 x 3 PHASE 10 A ISOLATOR TO BE PROVIDED FOR NEW BURLODGE TROLLEY.
- 2. THE POWER FOR NEW TROLLEYS SHALL BE SERVICED FROM EXISTING ESSENTIAL DB EDB-G2.
- 3. USE EXISTING CABLE PATH FOR SUB CIRCUIT RETICULATION.

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NOTE:

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

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TAMWORTH MENTAL HEALTH UNIT

MECHANICAL SERVICES PREPARED BY

MECHANICAL DRAWING INDEX

A2B-WSP-DRW-MEH-M10-000
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A2B-WSP-DRW-MEH-M10-011
A2B-WSP-DRW-MEH-M10-020
A2B-WSP-DRW-MEH-M10-021
A2B-WSP-DRW-MEH-M10-022
A2B-WSP-DRW-MEH-M10-023
A2B-WSP-DRW-MEH-M10-024
A2B-WSP-DRW-MEH-M10-025
A2B-WSP-DRW-MEH-M20-100
A2B-WSP-DRW-MEH-M20-200
A2B-WSP-DRW-MEH-M20-201
A2B-WSP-DRW-MEH-M20-300

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LEGEND OF SYMBOLS

DUCTWORK	
AxB	RECTANGULAR DUCTWORK DUCT AIRWAY DIMENSIONS (mm) A DENOTES SIDE VIEWED B DENOTES SIDE NOT VIEWED
<u> </u>	CIRCULAR SPIRAL DUCTWORK DUCT AIRWAY DIMENSIONS (mm)
	OVAL DUCTWORK DUCT AIRWAY DIMENSIONS (mm) A DENOTES SIDE VIEWED B DENOTES SIDE NOTE VIEWED
	NOMINAL 25mm INTERNALLY LINED ACOUSTIC DUCTWORK REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
	NOMINAL 38mm INTERNALLY LINED ACOUSTIC DUCTWORK REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
	NOMINAL 50mm INTERNALLY LINED ACOUSTIC DUCTWORK REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
	NOMINAL 75mm INTERNALLY LINED ACOUSTIC DUCTWORK REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
	NOMINAL 100mm INTERNALLY LINED ACOUSTIC DUCTWORK REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
FRL A/B/C	FIRE RATED DUCTWORK A DENOTES STRUCTURAL B DENOTES INTEGRITY C DENOTES INSULATION
AxB	EXTERNALLY INSULATED RECTANGULAR DUCTWORK DUCT AIRWAY DIMENSIONS (mm) A DENOTES SIDE VIEWED B DENOTES SIDE NOT VIEWED REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
₽	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED.
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION
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	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT
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	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL (PANEL ON TOP OR BOTTOM/PANEL ON SIDE)
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL PUTOT OR BOTTOM/PANEL ON SIDE) DUCTWORK ATTENUATOR
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL DUCT ACCESS PANEL DUCT WORK ATTENUATOR SPIGOT C/W DAMPER
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK CW SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL FLECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL DUCT WORK ATTENUATOR SPIGOT C/W DAMPER BLANK OFF DUCT
	OF THERMAL INSULATION' FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK C/W SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION' FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL DUCT WORK ATTENUATOR SPIGOT C/W DAMPER BLANK OFF DUCT DUCT RISE AND FALL IN DIRECTION OF AIRFLOW SD - SET DOWN SU - SET UP
	OF THERMAL INSULATION' FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK CW SPIGOTS & DAMPER REFER TO SPECIFICATION, SECTION 'SCHEDULES', 'SCHEDULE OF THERMAL INSULATION' FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL DUCT WORK ATTENUATOR SPIGOT CW DAMPER BLANK OFF DUCT DUCT RISE AND FALL IN DIRECTION OF AIRFLOW SD - SET DOWN SU - SET UP SUPPLY AIR DUCT CROSS SECTION (DROP/RISE)
	OF THERMAL INSULATION* FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK CW SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL PITOT TUBE TEST POINT DUCT ACCESS PANEL DUCT WORK ATTENUATOR SPIGOT CW DAMPER BLANK OFF DUCT DUCT RISE AND FALL IN DIRECTION OF AIRFLOW SD - SET DOWN SU - SET UP SUPPLY AIR DUCT CROSS SECTION (DROP/RISE) RETURN AIR DUCT CROSS SECTION (DROP/RISE)
	OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE DUCTWORK CW SPIGOTS & DAMPER REFER TO SCHEDULE FOR SIZING REFER TO SPECIFICATION, SECTION "SCHEDULES", "SCHEDULE OF THERMAL INSULATION" FOR MINIMUM R-VALUE REQUIRED. FLEXIBLE CONNECTION FLEXIBLE CONNECTION FIRE DAMPER/MOTORISED SMOKE DAMPER COMPLETE WITH ACCESS PANEL ELECTRIC DUCT HEATER PITOT TUBE TEST POINT METERING PLATE IN DUCT DUCT ACCESS PANEL PINOT TOP OR BOTTOM/PANEL ON SIDE) DUCTWORK ATTENUATOR BLANK OFF DUCT DUCT RISE AND FALL IN DIRECTION OF AIRFLOW SD - SET DOWN SU - SET UP SUPPLY AIR DUCT CROSS SECTION (DROP/RISE) CIRCULAR DUCT CROSS SECTION (DROP/RISE)

AIR DISTRIBUTION		SYSTEM SCHEMAT	IC/OSCI
A/B-C	SUPPLY AIR REGISTER	_	AIR FLOW
			CONTROL
A/B-C	A DENOTES FACE SIZE B DENOTES NECK SIZE		IN LINE AXIAL FAN
	C DENOTES AIR QUANTITY IN LITRES PER SECOND SHADED QUADRANTS DENOTE BLANKED SECTIONS		IN-LINE CENTRIFUGAL FAN
A/B-C	THERMAFUSER	\bigoplus	CENTRIFUGAL FAN
A/B-C	CIRCULAR SUPPLY AIR DIFFUSER		OPPOSED BLADE DAMPER
A/B-C		T	ROOM TEMPERATURE SENSOR
\otimes	CIRCULAR SWIRL SUPPLY AIR DIFFUSER	R	REED SWITCH
A-C	DETLIDN / DELIEE / EXHAUST AID CDILLE	С	WALL MOUNTED CONTROLLER
		<u> </u>	ROOM HUMIDITY SENSOR
	DEED BED EII TER		CARBON DIOXIDE SENSOR
		Ē	FLOW SENSOR
\sim	V-FORM FILTER	т P	PRESSURE SENSOR
		一 一 一 一 一	
2	PANEL FILTER	T PD	
$\overline{\mathbf{A}}$	DOOR GRILLE	म डि	ISOLATING SWITCH
v	REFER TO SCHEDULE	FS	FLOW SWITCH
[PRESSURE SWITCH
ELECTRICAL/CONTR	<u>ROLS</u>	Ч П	
	MECHANICAL DISTRIBUTION BOARD (MDB) OR LOCAL CONTROL PANEL	Ψ	
BAS	BAS PANEL	Ŷ	
VSD	VARIABLE SPEED DRIVE	Ϋ́	
FFCP	FAN FIRE CONTROL PANEL		
		딱	
WORKS-IN-CONNEC	TION (BY OTHERS)	MF T	MAGNETIC FLOW MEASURING DEVICE
	<u>_</u>		
A		M	MOTOR ACTUATOR
Р		S	SOLENOID ACTUATOR
.ф TD	TUNDISH		PNEUMATIC ACTUATOR
⊜ F₩	FLOOR WASTE	HS	HIGH SELECT
		AV	AVERAGING
NOTE RELATED	OUTLINE NOTATION	the second se	ANNUBAR
TO OTHER TRADE CONTRACTOR	INDICATES WORKS BY OTHERS	A	CONTROL INPUT
		A	CONTROLLED EQUIPMENT No.
		FSD	FIRE SMOKE DAMPER
TENANCY LINE-TYPE	E SCHEDULE		
	NEW		
FLEXIBLE			
SIZE (mm)			

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 - 560			
Ø500	561 - 700			

DOOR GRILLE SCHEDULE				
TYPE	DIMENSION (NOM)	L/s		
А	600x150	0 - 90		
В	600x200	91 - 110		
С	600x250	111 - 130		
D	600x300	131 - 170		
E	600x450	171 - 250		
F	600x600	251 - 325		
G	300x150	0 - 40		
U	25mm UNDERCUT	-		

PIPEWORK
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HHW PIPE	
CHW PIPE	
CCW PIPE	
REFRIGERANT PIPE	
CONDENSATE DRAIN PIPE	
ISOLATING VALVE	
BUTTERFLY VALVE	
BALL VALVE	
GLOBE VALVE	
GATE VALVE	
CHECK VALVE	
PRESSURE REDUCING VALVE	
DOUBLE REGULATING CONTROL VALVE	
DYNAMIC BALANCING VALVE	
DYNAMIC BALANCING CONTROL VALVE	
PRESSURE RELIEF VALVE	
VACUUM BREAKER	
3-WAY VALVE	
PRESSURE RELIEF VALVE	
DRAIN VALVE	
GAS REGULATING VALVE	
BALL FLOAT VALVE	
BACKFLOW PREVENTION DEVICE	
BIBCOCK	
CAPPED VALVE	
FLANGE	
UNION	
THERMOMETER POCKET	
UNIVERSAL TEST POINT	
AUTOMATIC AIR VENT	
MANUAL AIR VENT	
OPEN VENT	
LINT STRAINER	
STRAINER	
PUMP	
PIPE ANCHOR	
FLEXIBLE CONNECTION	
ATTENUATOR	
PIPE RISER PIPE DROPPER	
EXPANSION JOINT	
EXPANSION BEND	
EXPANSION BEND (LYRE OR HORSESHOE BEND)	

REDUCTION OF PIPE SIZE PIPE SLIDE OR SLIDING SLEEVE HANGER

SYPHON TO WASTE

TUNDISH TO WASTE

NOMENCLATURE (WATER SIDE)

CHW	CHILLED WATER
CWFT	CHILLED WATER FEED & EXPANSION TANK
CHP	CHILLED WATER PUMP
CHR	CHILLER
CW	COLD WATER
CC	COILING 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

DO NOT SCALE

<u>NOTES:</u>

- 1. ATTENUATION SHALL BE PROVIDED TO MEET THE ACOUSTIC REQUIREMENTS, PROVIDE EQUIPMENT SCHEDULES AND LAYOUTS FOR ACOUSTIC REVIEW.
- 2. MECHANICAL CONTRACTOR TO PROVIDE ELECTRICAL LOADS FOR ELECTRICAL CONTRACTOR.
- 3. ALL DUCTS AND DIFFUSERS TO BE COMPLETED WITH VCD'S. 4. ALL DIFFUSER QUANTITIES ARE INDICATIVE, FINAL LOCATION AND
- QUANTITIES TO BE COMPLETED BY CONTRACTOR, DIFFUSERS ARE TO BE FLUSH MOUNTED ANTI-LIGATURE CONSTRUCTION.
- 5. TOILET EXHAUST GRILLES TO BE PROVIDED WITH NON RETURN DAMPERS.
- 6. FIRE SEALS, FIRE DAMPERS AND FIRE SMOKE DAMPERS TO BE INSTALLED AS PER THE ARCHITECTURAL CONTAINMENT PLANS.
- 7. FINAL ACCESS PANEL LOCATIONS AND QUANTITIES TO BE ACCESSED DURING DETAILED DESIGN BY CONTRACTOR.
- 8. 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.
- 9. 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.
- 10. 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.
- 11. WHERE ACCESS PANEL FOR FIRE SMOKE DAMPERS ARE REQUIRED IN PATIENT ZONES, THEY ARE TO BE FLUSH MOUNTED ANTI-LIGATURE CONSTRUCTION.
- 12. FINAL TUNDISH LOCATIONS TO BE COORDINATED WITH HYDRAULIC CONSULTANT AND ARCHITECT.
- 13. SERVICES RETICULATION ROUTES ARE INDICATIVE, FINAL DUCT RETICULATION AND SERVICES COORDINATION BY CONTRACTOR.

A REV	24.02.2023 DATE	SD DF BY	RAFT DETAIL DESIGN DESCRIPTION		MS CHK	KC APP
DRAV	WING STATUS:	DF	RAFT DETAIL DES	SIGN		
	Le	evel 27, 6 Tel: ±61	580 George Street, Sydne -2-9272-5100 Fax: +61-2-	ey, NSW 2000 -9272-5101		
CLIEN	T:			TURF		
CLIEN	T: TECT:	HEA	ALTH INFRASTRUC	TURE		
CLIEN ARCHI PRO.	T: TECT: JECT:	HEA SIL	ALTH INFRASTRUC	TURE NLEY		
CLIEN ARCHI PRO.	T: TECT: JECT: T	HEA SIL	ALTH INFRASTRUC	TURE NLEY NLTH UNIT		
CLIEN ARCHI PROJ	т: тест: JECT: Т.	HEA SIL	ALTH INFRASTRUC	TURE NLEY NLTH UNIT		
CLIEN ARCHI PRO.	T: TECT: JECT: T. E: LEGEN	HEA SIL AMWC MI JD OF	ALTH INFRASTRUC ALTH INFRASTRUC VER THOMAS HAN ORTH MENTAL HEA ECHANICAL SERVI SYMBOLS AND GE	TURE NLEY NLTH UNIT CES NERAL NO	TES	
CLIEN ARCHI PROJ	T: TECT: JECT: T. E: LEGEN	HEA SIL AMWC MI JD OF	ALTH INFRASTRUC ALTH INFRASTRUC VER THOMAS HAN ORTH MENTAL HEA ECHANICAL SERVI SYMBOLS AND GE	TURE NLEY NLTH UNIT CES NERAL NO	TES	
CLIEN ARCHI PROJ TITLE SCALE PROJE	T: TECT: JECT: T LEGEN E @ A0: NTS ECT NUMBER: PS12331	HEA SIL AMWC ID OF	ALTH INFRASTRUC ALTH INFRASTRU	TURE NLEY ALTH UNIT CES NERAL NO APPROVED: K DATE: NOV	TES (C 2022 REV-	
CLIEN ARCHI PROJ TITLE SCALE PROJE	T: TECT: JECT: T. E: LEGEN E @ A0: NTS CT NUMBER: PS12331 VING NO: A2B	HEA SIL AMWC AMWC ID OF	ALTH INFRASTRUC ALTH INFRASTRUC VER THOMAS HAN ORTH MENTAL HEA ECHANICAL SERVI SYMBOLS AND GE CHECKED: CHECKED: CHECKED: CD DRW-MEH-M10-	TURE VLEY VLEY CES NERAL NO APPROVED: K DATE: NOV 001	TES C 2022 REV: A	

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A 24.02.2023 SD DRA	AFT DETAIL DESIGN		MS KC			
REV DATE BY	DESCRIPTIO	N	CHK APP			
DR	AFT DETAIL DE	ESIGN				
Level 27, 6 Tel: +61-	80 George Street, Syde 2-9272-5100 Fax: +61 http://www.wsp.com	ney, NSW 2000 -2-9272-5101				
CLIENT: HEA	LTH INFRASTRU	CTURE				
ARCHITECT:	ARCHITECT: SILVER THOMAS HANLEY					
PROJECT:	RTH MENTAL HE	ALTH UNIT				
TITLE: MECHANICAL SERVICES TYPICAL DETAILS						
SCALE @ A0: NTS	CHECKED:	APPROVED:	_			
PROJECT NUMBER: PS123315	DRAWN:	DATE:	2022			
DRAWING NO: A2B-WSP-DRW-MEH-M10-010 A						
© WSP Australia Pty Ltd						

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

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

A REV	24.02.2023 DATE	SD [BY	DRAFT DETAIL DESIGI	N DESCRIPTION		MS CHK	KC APP				
DRAW	ING STATUS:	D	RAFT DET	AIL DESI	IGN						
	Le	evel 27, Tel: +6	680 George S 1-2-9272-5100 http://www	treet, Sydney, Fax: +61-2-9 w.wsp.com	NSW 2000 272-5101						
CLIENT	:	HE	ALTH INFR	ASTRUCT	URE						
ARCHIT	ECT:	SI	LVER THO	MAS HANI	EY						
PROJI	ECT:										
	T	AMW	ORTH MEN	TAL HEAL	TH UNIT						
TITLE	TITLE: MECHANICAL SERVICES TYPICAL DETAILS										
SCALE	@ ao: NTS		CHECKED:	-	APPROVED:	-					
PROJE	CT NUMBER: PS12331	5	DRAWN:	-	DATE:	2022					
DRAW	A2B-WSP-DRW-MEH-M10-011 A										
		©V	SP Aus	tralia Pt	y Ltd						

PRESSURE SENSOR AND TRANSMITTER INSTALLED ON DUCT RISER AT AN ACCESSIBLE LOCATION. EXACT LOCATION TO BE CONFIRMED ON SITE BY CONTRACTOR FOR BEST CONTROL OUTCOME (I.E. TWO THIRD OF INDEX

RUN).

PRE-CONDITIONED OUTSIDE AIR SUPPLY

TO LEVELS 1 FCU'S.

PRE-CONDITIONER UNIT CONTROL SCHEMATIC

A REV	24.02.2023 DATE	SD I BY	DRAFT DETAIL DESIGN DE	SCRIPTION		MS CHK	KC APP			
DRAW	VING STATUS:	D	RAFT DETA	IL DESI	GN					
CLIENT	Le	evel 27, Tel: +6	680 George Stre 1-2-9272-5100 Fa http://www.v	et, Sydney, ax: +61-2-92 vsp.com	NSW 2000 272-5101					
ARCHI	TECT	HE	ALTH INFRAS	STRUCT	URE					
		SI	LVER THOM	as hanl	EY.					
PROJ	PROJECT: TAMWORTH MENTAL HEALTH UNIT									
TITLE	MECHANICAL SERVICES AIR SCHEMATIC - SHEET 1									
SCALE	@ A0: NTS CT NUMBER: PS12331	5	CHECKED: - DRAWN: -		APPROVED: DATE: NOV	- 2022				
DRAW	A2B-WSP-DRW-MEH-M10-020 A									
	© WSP Australia Pty Ltd									

MECHANICAL AIR SCHEMATIC PART 2

TYPICAL AIR HANDLING CONTROL SCHEMATIC

A 24.02.2	2023 SD	DRAFT DETAIL DESIGN	CRIPTION	MS CHK	KC					
DRAWING STA	1TUS:				τι f					
	U									
		115								
	Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com									
CLIENT:	HE	ALTH INFRAS	TRUCTURE							
ARCHITECT:	S	ILVER THOMA	S HANLEY							
PROJECT:										
	TAMW	ORTH MENTA	L HEALTH U	NIT						
TITLE:	TITLE: MECHANICAL SERVICES AIR SCHEMATIC - SHEET 2									
SCALE @ A0: N PROJECT NUME PS1	NTS BER: 23315	CHECKED: - DRAWN: -	APPROV DATE:	ED: - NOV 2022						
DRAWING No:	A2B-WSP-DRW-MEH-M10-021 A									
	© WSP Australia Pty Ltd									

NORMALLY CLOSED FLUSHING BYPASS VALVE

PIBCV

PIBCV

TYPICAL FCU DETAIL

DIFFERENTIAL PRESSURE SENSOR AND BYPASS

LEVEL-02 ² L-02	BED MH (01 & 02)	BED MH (03 & 04)	BED MH (05, 06 & 07)	BED MH (08 & 09)	BED MH (10 & 11)	BED MH (12, 13 & 14)	BED MH (15, 16 & 17)
<u> (* 2004) - 2000 - 2000</u>	<u>्र'</u> थें <u>क</u> ्रुप्त			0.17L/s, Ø25		0.25L/s, Ø3	2
)— 0.11L/s, Ø20	0.06L/s, Ø20	0.08L/s, Ø20)	
		FCU-L01-0	<u>)1</u> <u>FCU-L0</u>	<u>1-02</u> <u>FCU-</u>	<u>L01-03</u>		
LEVEL-01:L-01		MEETING ROOM	; CONSL	ILT (C	RVIEW INT 1)	TERVIEW (02)	INTERVIEW (03)

LEVEL-03

MECHANICAL CHW / REFRIGERANT SCHEMATIC PART 1

MOTOR RATED ISOLATOR

FLEXIBLE CONNECTIONS —

ELECTRICAL SUPPLY —

INSULATED 50mm

Connection to Sidewall Bar

GRILLE

ELECTRICAL PANEL

SECTION SUPPORTS —

A REV	24.02.2023 DATE	SD BY	DRAFT DETAIL DESIG	N DESCRIPTION		MS CHK	KC APP				
DRAW	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	:	HE	ALTH INFR	ASTRUCT	URE						
ARCHIT	ECT:	S	ILVER THO	MAS HANL	EY.						
PROJI	ECT: T,	AMW	ORTH MEN	TAL HEAL	TH UNIT						
	MECHANICAL SERVICES CHILLED WATER SCHEMATIC - SHEET 1										
SCALE PROJEC	@ A0: NTS CT NUMBER: PS12331	5	CHECKED:	-	APPROVED: DATE: NOV	2022					
DRAW	A2B-WSP-DRW-MEH-M10-022 A										
	© WSP Australia Pty Ltd										

02 -M10 -MEH- \geq DR Δ \mathcal{O} \geq A2B

DO NOT SCALE

FROM FIELD

TO FIELD

FROM FIELD

				0.36L/s, Ø32		a			
				_::			=:===:===		
		<u>ACU-L02-03</u>							0.93L/s, Ø50 <u>AHU-L02-05</u>
SPACE - 2P	WORKSPACE - 2P	COMMS	WC ACC & WC ST (01 & 02)	CORRIDOR / LOBBY	WORKSTATION 1	WORKSTATION 2	WORKSTATION 3	2 2 2 2 2 2	
<u> </u>		4 , d 4,		<u>, 4, ⁻ , 9 Å</u>	<u>, , , , , , , , , , , , , , , , , , , </u>		4.92L/s	, Ø80	, 4 _q , , , , , , , , , , , , , , , , , , ,

																			<u>ACU-L02-03</u>			
CE	BED MH (32 & 33)	BED MH (29, 30 & 31)	BED MH (27 & 28)	BED MH (18, 19 & 20)	BED MH (21, 22 & 23)	DE ESCALATION & SECLUSION	BED MH (24, 25 & 26)	CORRIDOR	SENSORY (04), M. PURPOSE (02) & INTRVIEW (04 & 05)	DINING (03)	RECREATION (02) & S/C INTERFACE (02)	CORRIDOR	DIRTY UTY (02), LAUNDRY (02) & WC ACC (03)	CLINICAL (02 & 03)	SENSORY (05) & INTERVIEW (06)	HAZ. LOUNGE	CORRIDOR	CLNR (02), WC ST (03) & WC SEC	MEDICATION ROOM	STORE - GEN (03)	STORE - CLOTHING	
<u>`````````````````````````````````````</u>				<u> </u>										2, ⁶ 4 '. 6	<u>i politiko tobijo</u> I						19 - 4 D. 9 . 4 . 1	
						4 																
						- 	ACU-L01-01	ACU-LO	<u>1-02</u>	: 												
										а , , , , , , , , , , , , , , , , , , ,												
									T													
						4 1 17-			!!	EU-L01-0)1											
						•			! [
							N	IAIN COMMS ROOM		EU-L01-0	02											
 	A		- š _ 4, `			. ¹ 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			4 ⁴ , 4	· · · · · · · · · · ·	्याः व्या य			4	a - 4 , 4 , 4 , 4 , 4 , 4 , 4 , 4 , 4 , 4	· · · · · · · · · · · · · · · · · · ·	4	a	· · · · · · · · · · · · · · · · · · ·	्र - २ - २ - २		

MECHANICAL CHW / REFRIGERANT PIPE SCHEMATIC PART 2

MECHANICAL PLANT ROOM DETAIL

A	24.02.2023	SD [DRAFT DETAIL DESI	GN		MS	КС				
REV	DATE	BY		DESCRIPTION		СНК	APP				
DRAW	DRAFT DETAIL DESIGN										
	Le	evel 27,	680 George	Street, Sydne	y, NSW 2000						
		Tel: +6	1-2-9272-510	0 Fax: +61-2-	9272-5101						
			nup://w	ww.wsp.com							
CLIENT	:	HE	ALTH INF	RASTRUC	TURE						
ARCHIT	TECT:	SI	LVER THO	DMAS HAN	ILEY						
PROJ	ECT:										
	Т	AMW	ORTH ME	NTAL HEA	LTH UNIT						
TITLE	СНІ	N LLED	IECHANIC WATER S	AL SERVI CHEMATI	CES C - SHEET :	2					
SCALE	@ A0: NTS		CHECKED:	-	APPROVED:	-					
PROJE	CT NUMBER: PS12331	15	DRAWN:		DATE:	2022					
DRAW	A2B-WSP-DRW-MEH-M10-023 A										
	© WSP Australia Pty Ltd										

	NORMALLY CLOSED FLUSHING BYPASS VALVE		
FETY DRAIN TRAY TO — TEND UNDER VALVES			SAFETY DRAIN TRAY TO – EXTEND UNDER VALVES
Sulated Copper Drain Nearest Tundish		TYPICAL AHU DETAIL	INSULATED COPPER DRAI TO NEAREST TUNDISH

				0.06L/s, Ø20	0.07	L/s, Ø20
)3L/s, Ø20 - 0.1	03L/s, Ø20			01L/s, Ø20
	<u>FCU-L01-01</u>	FCU-L01-02			<u>FCU-L01-03</u>	<u>FCU-L01-04</u>
LEVEL-01EL-01	MEETING ROOM	INTERVIEW (03)	INTERVIEW (01)	INTERVIEW (02)	CONSULT	RECEPTION/ WAITING
		a 92	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>, </u>		9

LEVEL-03

<u>MECHANICAL CHW / REFRIGERANT SCHEMATIC PART 1</u>

<u>д</u> а,	(- d ⁻ d ⁻ , d ₋ , d ₋ , - , d , d ₋ , d ₋ , -			· · · · · · · · · · · · · · · · · · ·	3.22L/s, Ø65	54, din in i	, ⁹ 4'			, , , , , , , , , , , , , , , , , , ,	<u>, , d'</u>
EAN MED	DISPOSAL	CORRIDOR	DIRTY UTY (01), WC PT, WC ST (01), CLNR. WC ACC (02)	TREATMENT (01) & SENSORY (03)	MEDIA, INTERVIEW (03) & BAY MOB	COMMS	THERAPEUTIC, EXERCISE (02)	STORE EQ. & STORE-GEN (01&02)	CORRIDOR	KITCHEN	
ORRIDOR	EQ-STOR GEN STO	E & DRE									

A REV	24.02.2023 DATE	SD DR BY	AFT DETAIL DES	SIGN DESCRIPT	ION			MS CHK	KC APP		
DRAW	/ING STATUS:	DR	AFT DE	ETAIL D	DESI	GN					
	Le	evel 27, 6 Tel: +61	80 George 2-9272-51 http://w	Street, Sy 00 Fax: +6 ww.wsp.co	vdney, 51-2-92 om	NSW 20 72-510 ⁻)00 1				
CLIENT	2	HEA	LTH INF	RASTR	υςτι	JRE					
ARCHIT	TECT:	SIL	VER TH	OMAS H	IANL	EY					
PROJ	ECT:										
	Т	AMWO	RTH ME	NTAL H	EAL	TH UN	IT				
TITLE	:										
	HEATI	me Ng Ho	ECHANIC T WATE	CAL SEF R SCHE	rvice Mat	ES IC - SI	HEE	T 1			
SCALE	@ A0: NTS		CHECKED:	-		APPROVED): -				
PROJE	CT NUMBER: PS12331	15	DRAWN:			DATE:	NOV	2022			
DRAW	A2B-WSP-DRW-MEH-M10-024 A										
		©W	SP Au	ıstralia	a Pty	y Ltd					

20					0.34L/s, Ø3	32								0.34L/:	's, Ø32				6.32L/s, Ø100		<u>REFER TO M</u> <u>PLANT ROO</u> <u>BEL</u>
									43 - 0 - 4 - 4	ſ			1.15L/s	, Ø50		.88L/s, Ø50	2.48L/s, Ød	55 - 5.98 1	L/s, Ø80		
		<u>ACU-L02-</u>	<u>03</u>						e	Ċ	⊃— 0.43L/s, Ø32 AHI I-I 03-01	C	INTERNAL PL)	ANT ROOM (02)	— 0.73L/s, Ø40))6	⊂)— 0.60L/s, Ø AHILI 0	40		3 3 4 4 9	
SPACE - 2P	WORKSPACE 2P	E - COM	//S	WC ACC & WC ST (01 & 02)	CORRIDOR / LOBBY	WORKSTATION	1 WORKSTATION 2	WORKSTATION 3								····			s 410	EXTERNAL PLAN	TROOM
								3.50L	/5, /265												

WORKSPACE 4P	BED MH (32 & 33)	BED MH (29, 30 & 31)	BED MH (27 & 28)	BED MH (18, 19 & 20)	BED MH (21, 22 & 23)	DE ESCALATION & SECLUSION	BED MH (24, 25 & 26)	CORRIDOR	SENSORY (04), M. PURPOSE (02) & INTRVIEW (04 & 05)	DINING (03)	RECREATION (S/C INTERFACE
	4		a	4 9 11 1 9		aa (a, a, a, a)					4,: .
A	a		/- ² d ²	· · · · · · · · · · · · · · · · · · ·	y a ya	4	Ν	IAIN COMMS ROOM	A	ал. <u>д.</u> е.	
,	- 4 4 4 4	F. 1 2	··· · · · · · · · · · · · · · · · · ·		. ``.d		4	4*		44	

MECHANICAL CHW / REFRIGERANT PIPE SCHEMATIC PART 2

MECHANICAL PLANT ROOM DETAIL

A	24.02.2023 DATE	SD DR BY	RAFT DETAIL DESI	GN DESCRIPTION		MS CHK	KC APP				
DRAW	VING STATUS:	DR	RAFT DE	TAIL DES	IGN						
	Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com										
CLIENT	7:	HEA	LTH INF	RASTRUCT	TURE						
ARCHI	TECT:	SIL	VER THO	OMAS HAN	LEY						
PROJ	ect: T	AMWC	ORTH MEI	NTAL HEAI	_TH UNIT						
TITLE	MECHANICAL SERVICES HEATING HOT WATER SCHEMATIC - SHEET 2										
SCALE	@ A0: NTS		CHECKED:	-	APPROVED:	-					
DRAW	PS12331	15		-	NOV	2022 REV:					
	A2B	-WSP	-DRW-M	EH-M10-()25	A	۱.				
		©W	SP Au	stralia P	ty Ltd						

<u>NOTES:</u>

- 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.
- 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.
- A P : PERMANENT ACCESS PANEL
- A : TEMPORARY ACCESS PANEL

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A 24/92/2023 SD DPM/T DETAIL DESON MS RTV DATE SD DPM/T DETAIL DESON MS DEMUNICS STATUS: DRAFT DETAIL DESIGN CMK / DEMUNICS STATUS: DRAFT DETAIL DESIGN CMK / Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: -61-2-9272-5101 http://www.wsp.com K / CLENT: HEALTH INFRASTRUCTURE ACMITECT: SILVER THOMAS HANLEY PROJECT: TAMWORTH MENTAL HEALTH UNIT ITTLE: MECHANICAL SERVICES HVAC LAYOUT - LEVEL 1 MECHANICAL SERVICES HVAC LAYOUT - LEVEL 1 SCALE # AP 1100 CHECKED: APPROVED: KC MOV 2022 DEMUNIC M: DEAWNE DRAWE DATE NOV 2022 DEMUNIC M: A2B-WSP-DRW-MEH-M20-100 REY A												
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<u>NOTES:</u>

- 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.
- RELIEF / RETURN AIR FOR CONDITIONED ROOMS SERVED VIA VAV SYSTEM TO UTILISE ACOUSTIC TRANSFER GRILLES WITHIN CEILING VOID.
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- P : TEMPORARY ACCESS PANEL

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-	Level 27, 680 George Street, Sydney, NSW 2000 Tel: +61-2-9272-5100 Fax: +61-2-9272-5101 http://www.wsp.com										
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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.
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A	24.02.2023 DATE	SD DR BY	AFT DETAIL DES	SIGN DESCRIPTION		MS CHK	KC APP			
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CLIENT	Le	evel 27, 6 Tel: +61	080 George -2-9272-510 http://w	Street, Sydney 00 Fax: +61-2-9 ww.wsp.com) , NSW 2000 9272-5101					
ARCHIT	TECT:	HEA		RASIRUCI						
PROI	FCT	SIL	VER TH	OMAS HAN	LEY					
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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 be confirmed with the Archtiect 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 suffient 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

Туре	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 N	lumber: PS123315			DRAFT DETAILED DESIGN		Revision: A	Date: 24.02.2023			
Туре	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 PLQNRFLEDP	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 N Type	lumber: PS123315 Image	Description	Manufacturer Model	DRAFT DETAILED DESIGN Supplier	Dimensions	Revision: A Light Performance	Date: 24.02.2023 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	130 0210 Cutout Ø184	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 N	lumber: PS123315			DRAFT DETAILED DESIGN		Revision: A	Date: 24.02.2023			
Туре	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	130 0210 Cutout 0184	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	52 ø 82	CCT: 3000K CRI: 90 Lumens: 793Im (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	ССТ: 3000К CRI: 90 Lumens: 3525Im (38W) MacAdam: 3 Lx / Bx: ТВС	LOCATION: DINING/ LOUNGE DALI DIMMABLE			

Project N	Diect Number: PS123315 DETAIL OF DESIGN Bevision: A Date: 24.02.2023											
Туре	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: 10700Im (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	75mm Ø110mm Cutout Ø98mm	CCT: 3000K CRI: 90 Lumens: 680Im (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	75mm Ø110mm Cutout Ø98mm	CCT: 3000K CRI: 90 Lumens: 1100Im (15W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: DINING/ LOUNGE DALI DIMMABLE					

	BANKSIA MENTAL HEALTH Luminaire Schedule										
Project N	umber: PS123315			DRAFT DETAILED DESIGN		Revision: A	Date: 24.02.2023				
Туре	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	Smm Bisonn Cutou (Bisonn	CCT: 3000K CRI: 90 Lumens: 1890Im (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: 3850Im (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 N	Number: PS123315			DRAFT DETAILED DESIGN		Revision: A	Date: 24.02.2023			
Туре	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: 5265Im (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: 5265Im (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: 3176Im (28.4W) MacAdam: 3 L70 B10 @ 55,000 hours IP: 65 IK: 16	LOCATION: UNDERSIDE OF LINK BRIDGE ON/OFF SWITCHING			

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	BANKSIA MENTAL HEALTH Luminaire Schedule										
Project N	lumber: PS123315			DRAFT DETAILED DESIGN		Revision: A	Date: 24.02.2023				
Туре	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	Y STRAMAC LIGHTING GAVIN MACRAE Email: gavin@stramaclighting.com.au Mobile: 0418 497 814	9 = 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	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: 175Im (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				

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Туре	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: 1485Im (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			

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Туре	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories				
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	Y	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	∮90 ↓ 90 ↓ 90 →	CCT: 3000K CRI: 90 Lumens: 94Im (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				

	BANKSIA MENTAL HEALTH Luminaire Schedule										
туре Туре	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Date: 24.02.2023 Notes / Accessories				
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				

Project N	BANKSIA MENTAL HEALTH Luminaire Schedule DBAET DETAILED DESIGN Bevision: A DBAET DETAILED DESIGN DBAET DETAILED DESIGN										
Туре	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories				
тз		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: 2125Im (22W) MacAdam: 3 L70 B10 @ 55,000 hours	LOCATION: STORE ROOMS ON/OFF SWITCHING				
Т5		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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Туре	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 SCINTILATION 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 Im 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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Туре	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	¢70 48+ 412 412 180 0148	CCT: 2700K Lumens: 381lm (9W) IP: 20	LOCATION: VISITOR WAITING KNX/ DALI RELAY ACTUATOR		

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Туре	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories
Ρ2		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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Туре	Image	Description	Manufacturer Model	Supplier	Dimensions	Light Performance	Notes / Accessories	
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	ten const ten const	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	ter form	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 BUTTOMS	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 BUTTOMS. 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