





























GYG STRATHPINE - MECHANICAL SERVICES

SYMBOLS LEGEND

	CONDENSATE DRAIN - NEW
	DUCTWORK (FLEXIBLE) - NEW
	SURFACE MOUNTED LIGHT - NEW REFER SCHEDULE OF LIGHT FITTINGS
	AIR FLOW DIRECTION
	SPIGOT (BELLMOUTH) - NEW
	SPIGOT (BELLMOUTH WITH DAMPER) - NEW
	MOTORISED VOLUME DAMPER - NEW
	RETURN AIR DUCTWORK (RIGID)
	SUPPLY AIR DUCTWORK (RIGID) - NEW
	EXHAUST AIR DUCTWORK (RIGID)
	DUCTWORK (EXTRACT RISER)
	DUCTWORK (EXTRACT RISER)
	DEEP BED FILTER - NEW
	DUCTWORK (SUPPLY DROPPER) - NEW
	ACCESS PANEL - NEW
	CONTROLLER - NEW
	TEMPERATURE SENSOR (THERMOSTAT) - NEW
	MECHANICAL SERVICES SWITCHBOARD - NEW
	INLINE FAN - NEW REFER TO FAN SCHEDULE
	BLANKED DIFFUSER - NEW
	DIFFUSER (CEILING MOUNTED) - NEW TO BE COLOUR MATCHED TO CEILING
	DOOR GRILLE - NEW
	GRILLE (EXTRACT) - NEW TO BE COLOUR MATCHED TO CEILING
	35mm DOOR UNDERCUT - NEW
	DIFFUSER NUMBER/AIR QUANTITY (l/s) (REFER GRILLES & DIFFUSER SCHEDULE)
	GRILLE NUMBER/AIR QUANTITY (l/s) (REFER GRILLES & DIFFUSER SCHEDULE)
	FAN (ROOF-MOUNTED DOWNFLOW) - NEW REFER TO FAN SCHEDULE
	WASTE - NEW

NOTES

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND ALL OTHER SERVICES DRAWINGS AND SPECIFICATION
- THE KITCHEN EXHAUST SYSTEM SHALL INCLUDE THE FOLLOWING
 - FANTECH CGD EXHAUST C/W ABB VSD'S AND GREASE TANK FOR A CONFORMING TENDER
 - MAKE-UP AIR SYSTEM C/W ABB VSD'S, DEEP BED AIR FILTERS, NOISE ATTENUATORS AND FAN
 - ALL RETURN AIR GRILLES IN KITCHEN SHALL BE EGGCRATE TYPE C/W HINGED CORE WITH REMOVABLE PANEL AIR PRE-FILTERS AND SECURING CHAINS
 - VIBRATION ISOLATION SHALL BE PROVIDED FOR ALL INSTALLED MECHANICAL EQUIPMENT;
 - MOUNT MAKEUP AIR FANS ON DOUBLE DEFLECTION SPRING ISOLATORS C/W NEOPRENE PADS.
 - PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN FANCOIL UNITS AND FILTER PLENUMS.
 - PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN PACKAGED UNITS AND VENTILATION FANS AND THEIR RESPECTIVE FIXED DUCTWORK;
 - MOUNT PACKAGED UNITS ON TWO(2) LAYERS OF 9MM WAFFLE PAD SEPARATED WITH 3MM GALVANISED METAL PLATES.
 - FIXED VOLUME CONTROL DAMPERS FOR OUTSIDE, SUPPLY AND RETURN AIR SHALL BECELMAC 40 MLA ALUMINIUM
 - ALL CUSHION HEAD BOXES SHALL BE HOLYOAKE "P3" BOXES C/W INTERNAL ACOUSTIC INSULATION C/W ROUND FLEXIBLE DUCT CONNECTION SPIGOT.(OVAL WILL NOT BE ACCEPTED.)
 - REFER GYG LESSOR/LESSEE SCOPE OF WORKS DOCUMENT FOR COMPLETE DETAILS
 - FRONT OF HOUSE A/C DIFFUSERS TO MATCH DECOR CEILING COLOUR. REFER FIT OUT DRAWINGS
 - DUCTWORK SHALL BE INSULATED TO NCC SECTION J REQUIREMENTS. ALL DUCTWORK DIMENSIONS REFLECT INTERNAL FREE AREA.
 - CONTRACTOR SHALL PROVIDE AS-BUILTS & COMMISSIONING RESULTS AT THE COMPLETION OF WORKS. COMMISSIONING RESULTS SHALL INCLUDE AIRFLOW DATA ON ALL SYSTEMS. REFER MECHANICAL SPECIFICATION FOR FURTHER DETAILS.
 - THE MAIN KITCHEN HOOD REQUIRES SPECIFIC BALANCING FOR THE OPENING OF THE STORE TO DEAL WITH INCREASED EXHAUST REQUIREMENTS DURING THIS TIME. THE CONTRACTOR SHALL INCREASE THE EXHAUST AND SUPPLY AIR RATES NOMINATED IN THE SCHEDULES BY 500L/s, AND THEN ALLOW TO REVISIT SITE FOLLOWING THE COMPLETION OF THE STORE OPENING TO REBALANCE THE HOODS TO DESIGN CONDITIONS.

CONTROL STRATEGIES

SUPPLY AND INSTALL THE COMPLETE CONTROL SYSTEM FOR THE MECHANICAL EQUIPMENT SHOWN ON THE DRAWINGS AND/OR DESCRIBED BELOW. THE WORK SHALL INCLUDE ALL SENSORS, ACTUATORS, CONTROLLERS, INTERFACES, INTERLOCKS, ALARMS, WIRING AND COMMISSIONING AS REQUIRED TO ENSURE THAT THE SYSTEM OPERATES PROPERLY AND ALL EQUIPMENT IS PROTECTED.

EACH ITEM OF EQUIPMENT SHALL BE CONTROLLED INDIVIDUALLY, GENERALLY BY MEANS OF SWITCHES, WHICH WILL ENABLE THE EQUIPMENT TO BE ISOLATED, RUN MANUALLY OR AUTOMATICALLY, DEPENDING UPON THE SET FUNCTION.

KITCHEN HOODS & VENTILATION SYSTEMS

- MANUAL STAINLESS STEEL ENGRAVED CONTROL PANEL FOR EACH INDIVIDUAL VENTILATION SYSTEM C/W GREEN LED RUN INDICATION, AS DESCRIBED BELOW. REFER DRAWINGS FOR CONTROL PANEL LOCATION.

KEF.1 : ON/OFF
KEF.2 : ON/OFF
SAF.1 : INTERLINKED WITH OPERATION OF KEF.1
SAF.2 : INTERLINKED WITH OPERATION OF KEF.2
EF.1 : TO RUN DURING HOURS OF OPERATION
TEF.1 : TO RUN DURING HOURS OF OPERATION

- TIMECLOCK OVERRIDE CONTROL TO ENABLE AND DISABLE MECHANICAL SYSTEMS IN CASE LEFT ON INADVERTENTLY

- VARIABLE SPEED DRIVES (VSD's) SHALL BE PROVIDED FOR ALL KITCHEN EXHAUST FANS, ASSOCIATED SUPPLY AIR SYSTEM THAT PROVIDE MAKE-UP AIR, AND WHERE NOMINATED IN THE FAN SCHEDULE.
VSD's FOR FANS SHALL BE LOCATED IN ACCESSIBLE LOCATION ABOVE THE MECHANICAL SERVICES SWITCHBOARD.

AIR-CONDITIONING SYSTEMS

- WALL MOUNTED SENSORS FOR THE KITCHEN AND BOH AIR CONDITIONING SYSTEM.
- MOUNT PROPRIETARY AIR CONDITIONING CONTROLLERS AT HIGH LEVEL ABOVE MSSB ADJACENT TO VSD'S.
- TIMECLOCK OVERRIDE CONTROL TO ENABLE AND DISABLE MECHANICAL SYSTEMS IN CASE LEFT ON INADVERTENTLY.
- TIMECLOCKS TO INITIALLY BE SET TO TURN OFF AT 11PM AND BACK ON TO 5:30AM UNLESS MANUALLY TURNED ON.

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REV	DESCRIPTION OF ISSUE	REV DATE	INITIAL

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Project

GYG STRATHPINE
90 GYMPIE ROAD
STRATHPINE QLD

Title

MECHANICAL SERVICES
DETAILS PAGE

Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M01	CI	00

A/C CONTROLLERS TO BE LOCATED AT HIGH LEVEL ABOVE MSSB, ADJACENT TO VSD'S. TO BE LOCATED IN KEYS, TRANSPARENT LOCK BOX TO LIMIT STAFF ACCESS TO CONTROLS. SEE DETAIL AA.

MSSB BY MECHANICAL CONTRACTOR. SUB-MAINS TO BOARD BY ELECTRICAL CONTRACTOR. SUPPLY & INSTALL VSD'S FOR FANS ABOVE MSSB. MSSB TO BE PROVIDED WITH 18 SPARE POLES.

SWITCHBOARDS TO BE ENCASED IN A METAL OR NON COMBUSTIBLE ENCLOSURE AND PROVIDED WITH A SMOKE SEALED DOOR

COOLROOM & FREEZER. REFER DRAWINGS M09 & M10 FOR FURTHER DETAILS

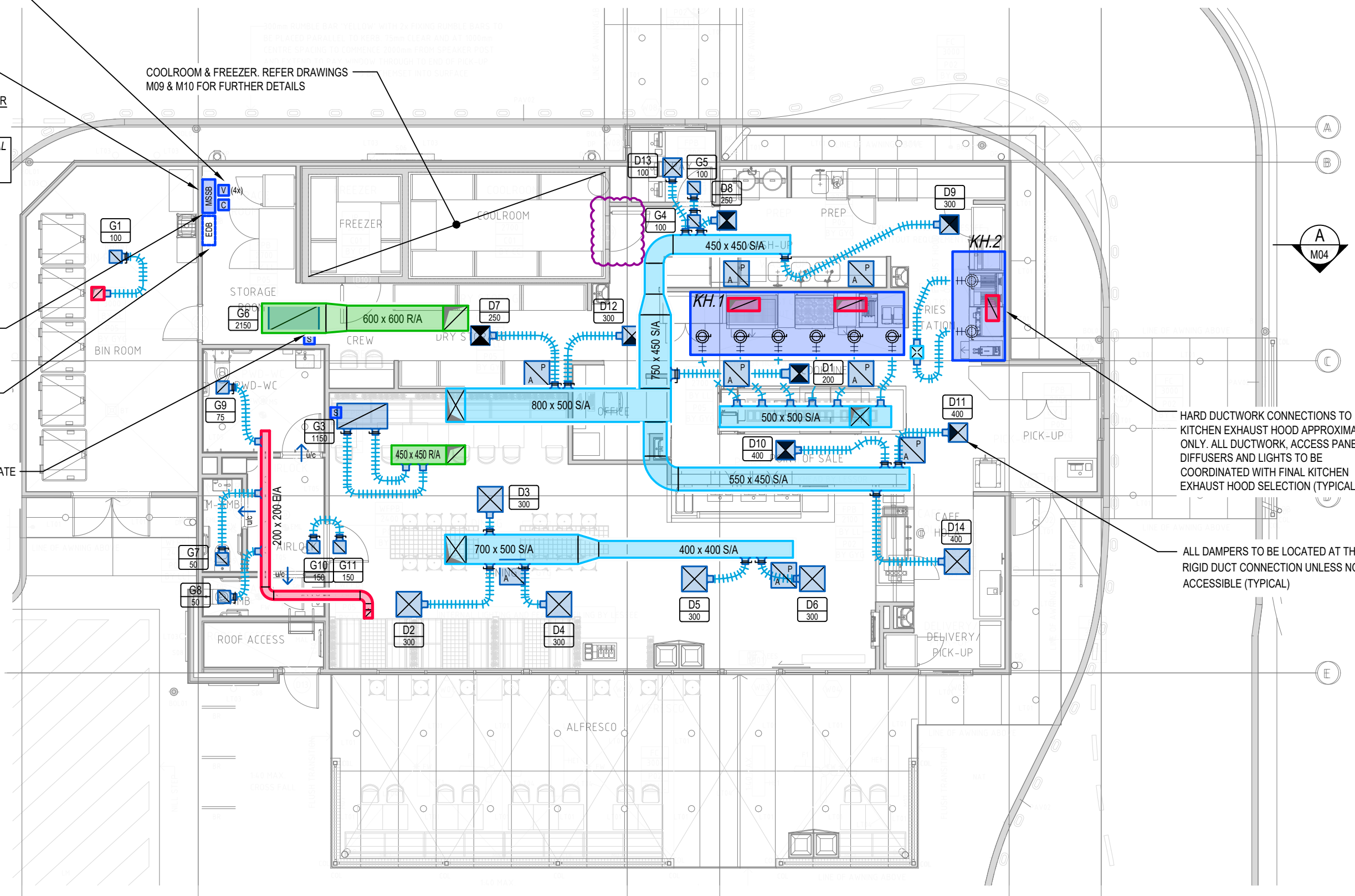
MECHANICAL CONTRACTOR TO CONCEAL CABLING FROM THE CEILING IN STAINLESS STEEL SHROUD

ELECTRICAL DISTRIBUTION BOARD BY ELECTRICAL CONTRACTOR

SENSOR TO BE WALL MOUNTED. CO-ORDINATE WITH DEOCR DRAWINGS FOR EXACT PLACEMENT.

HARD DUCTWORK CONNECTIONS TO KITCHEN EXHAUST HOOD APPROXIMATE ONLY. ALL DUCTWORK, ACCESS PANELS, DIFFUSERS AND LIGHTS TO BE COORDINATED WITH FINAL KITCHEN EXHAUST HOOD SELECTION (TYPICAL)

ALL DAMPERS TO BE LOCATED AT THE RIGID DUCT CONNECTION UNLESS NOT ACCESSIBLE (TYPICAL)



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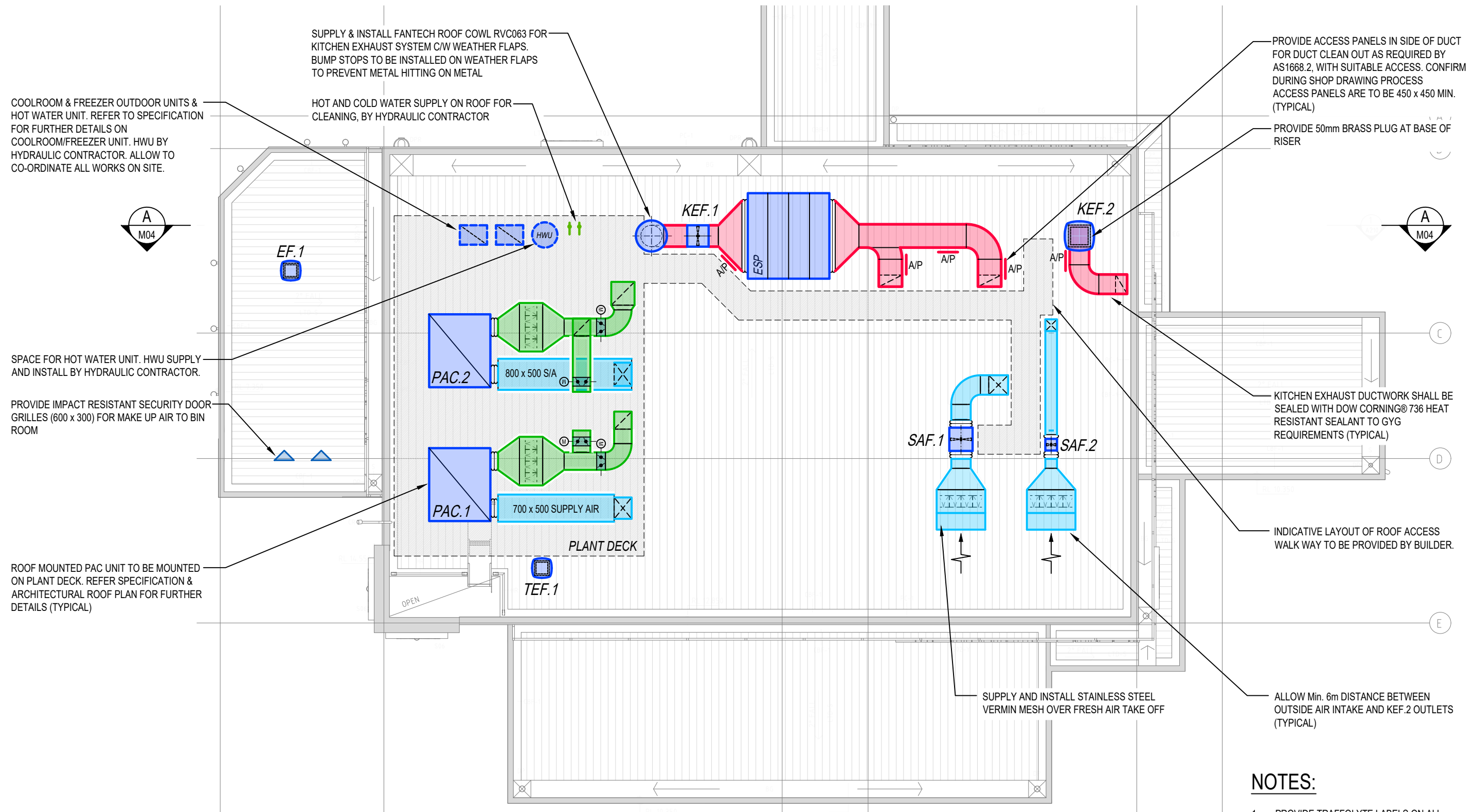


Project
GYG STRATHPINE
 90 GYMPIE ROAD
 STRATHPINE QLD

Title
MECHANICAL SERVICES
 A/C & VENTILATION LAYOUT

Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M02	CI	00

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- NOTES:**
1. PROVIDE TRAFFOLYTE LABELS ON ALL CONDENSING UNITS, INDICATING REFRIGERANT TYPE AND REQUIRED REFRIGERANT CHARGE FOR EACH UNIT
 2. ALL CONDENSING UNITS TO BE INSTALLED ON ANTI VIBRATION MOUNTS

CI	CONSTRUCTION ISSUE	29/10/2025	AC
REV	DESCRIPTION OF ISSUE	REV DATE	INITIAL

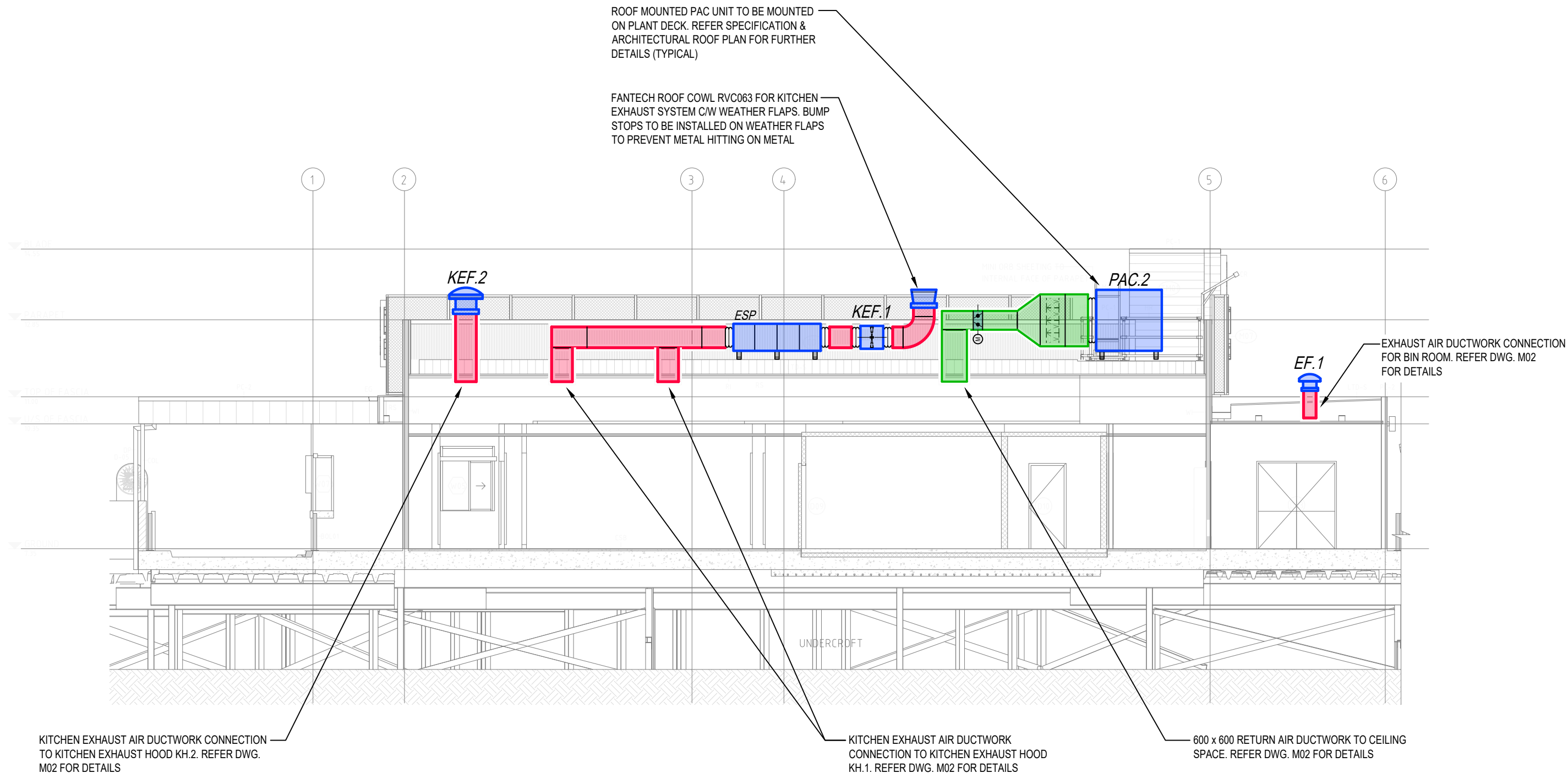
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Project GYG STRATHPINE 90 GYMPIE ROAD STRATHPINE QLD					Title MECHANICAL SERVICES ROOF LAYOUT				
Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M03	CI	00

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Project
GYG STRATHPINE
 90 GYMPIE ROAD
 STRATHPINE QLD

Title
MECHANICAL SERVICES
 SECTION A-A

Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M04	CI	00

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SCHEDULE OF FANS & COWLS

DES.	MANUFACTURE	TYPE	MODEL No.	AIR (L/s)	PRESS (Pa)	POWER (W)	DIA (mm)	Ø	NOISE (dBA)	WEIGHT	SPEED CONTROLLER	COMMENTS
KEF.1	FANTECH	ROOF MOUNTED, IN-LINE SUPPLY AIR FAN	PUD634	2000	350	1500	630	3	65	100	YES, ABB VSD	REQUIRES 25% SPARE CAPACITY
KEF.2	FANTECH	ROOF MOUNTED KITCHEN EXHAUST FAN	CGD454	800	300	1070	450	3	62	100	YES, ABB VSD	REQUIRES 25% SPARE CAPACITY
SAF.1	FANTECH	ROOF MOUNTED, IN-LINE SUPPLY AIR FAN	PCD564DD	1540	250	1100	560	3	59	50	YES, ABB VSD	OPERATION TO BE INTERLINKED WITH KEF.1 C/W ABB VSD, DEEP BED FILTER
SAF.2	FANTECH	ROOF MOUNTED, IN-LINE SUPPLY AIR FAN	PCD566DD	680	150	750	560	3	58	50	YES, ABB VSD	OPERATION TO BE INTERLINKED WITH KEF.2 C/W ABB VSD, DEEP BED FILTER
EF.1	FANTECH	ROOF MOUNTED EXHAUST FAN	MV254E	150	50	100		1	45	10	YES, FOR COMMISSIONING	
EF.2	FANTECH	ROOF MOUNTED EXHAUST FAN	MV254E	150	50	100		1	45	10	YES, FOR COMMISSIONING	
TEF.1	FANTECH	ROOF MOUNTED EXHAUST FAN	MV356E	150	50	100		1	45	10	YES, FOR COMMISSIONING	

NOTE 1 - ALL FANS TO HAVE TIMECLOCK CONTROL TO MEET SECTION J REQUIREMENTS. CONFIRM SETTINGS WITH GYG DURING COMMISSIONING PHASE. REFER MECHANICAL SPECIFICATION FOR FURTHER DETAILS.

NOTE 2 - FAN ARE SPECIFIED WITH ADDITIONAL CAPACITY FOR BALANCING DURING COMMISSIONING. ALTERNATIVES WITH LOWER DUTY'S WILL NOT BE ACCEPTED.

SCHEDULE OF AIRCONDITIONING UNITS

DES.	MANUFACTURE	TYPE	MODEL No.	MASS (kg)	AIR (L/s)	O/AIR (L/s)	PRESS. (Pa)	COOL. kW (sens/tot)	HEAT. kW	NOISE (dBA)	Ø	F.L.A. (Amps)	FILTER TYPE	COMMENTS
PAC.1	ACTRON	ROOF MOUNTED PACKAGE UNIT	PCG290L/R	470	1500	350	150	29.5/25.2	27.4	57/61	3.0	27.1		
PAC.2	ACTRON	ROOF MOUNTED PACKAGE UNIT	PKY500T	853	2600	450	470	49.1	51.8	59/64	3.0	47.1		

SCHEDULE OF KITCHEN HOODS

DES.	MANUFACTURE	TYPE	MODEL	WEIGHT (kg)	HOOD SIZE (m)			SECTIONS	LIGHTS	EXHAUST DETAILS				SUPPLY DETAILS			
					L	W	H			AIR (L/s)	PRESS. (Pa)	COLLAR No.	COLLAR SIZE	AIR (L/s)	PRESS. (Pa)	COLLAR No.	COLLAR SIZE
KH.1	STODDART	WALL	KVF	600	5.12	1.50	0.60	2	2	2000	120	2	750 x 300	1500	60	6	250dia
KH.2	STODDART	WALL	KVF	280	2.60	1.25	0.60	1	2	800	120	1	750 x 300	680	60	3	250dia

NOTE 1 - REFER MECHANICAL SPECIFICATION FOR FURTHER DETAILS

NOTE 2 - TO BE CONFIRMED DURING SHOP DRAWING PROCESS

SCHEDULE OF FILTRATION UNITS

DES.	MANUFACTURE	TYPE	MODEL No.	MASS (kg)	DIMENSIONS (mm)	AIRFLOW (L/s)	RESISTANCE (CLEAN)	ELECTRICAL	COMMENTS
ESP	AOM	INLINE DUCT ELECTROSTATIC PRECIPITATOR	SCRUBBER BOX 800 (3 UNITS) + CARBON BOX 800	700kg	2100 L x 2200 W x 650 H	1800	240 Pa	0.85kW, 240V, 1Ø	DUCT CONNECTION SIZE: 1860 x 500

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Project
GYG STRATHPINE
 90 GYMPIE ROAD
 STRATHPINE QLD

Title
MECHANICAL SERVICES
 SCHEDULES PAGE

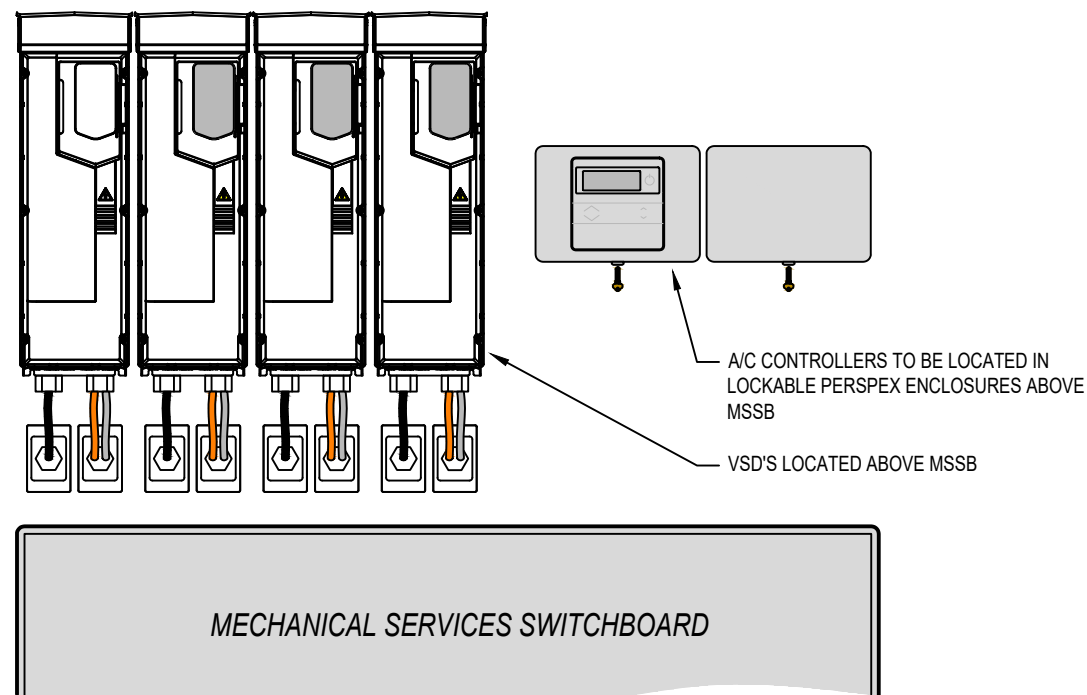
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1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M06	CI	00

SCHEDULE OF DIFFUSERS & GRILLES

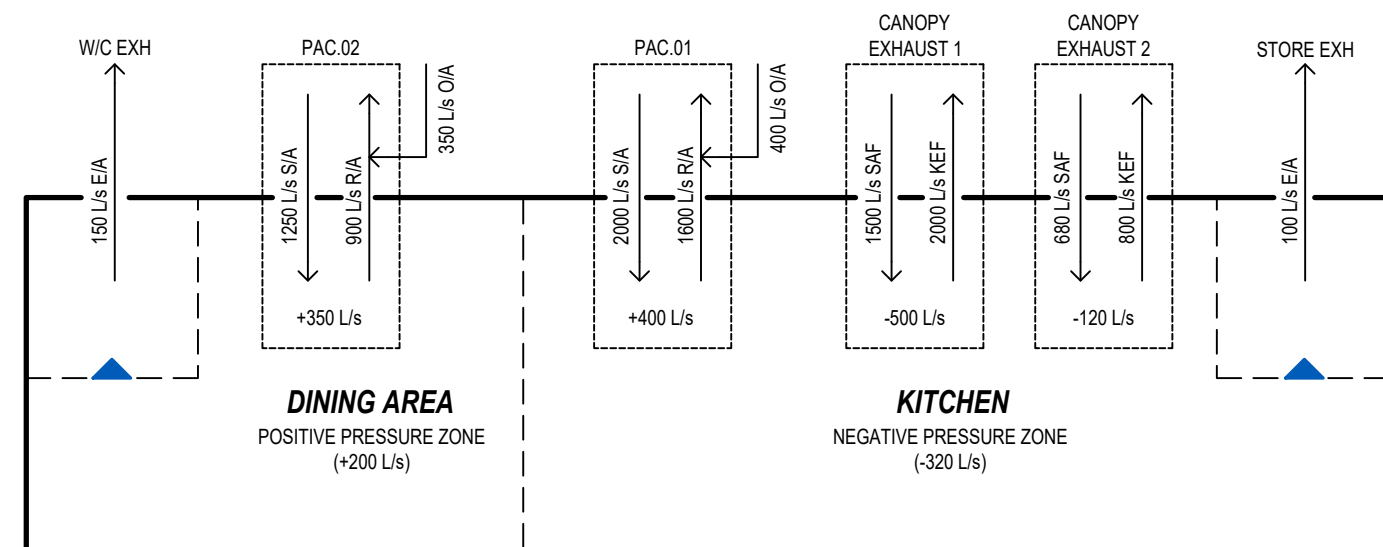
DESIGNATION	UNIT	AIR TYPE	FACE TYPE	FACE SIZE	NECK SIZE	FLEX. SIZE	COMMENTS
D1	PAC.1	SUPPLY	2-WAY DIRECTIONAL	450x450	400x400	250Ø	
D2-D6	PAC.1	SUPPLY	LOUVRE FACED	450x450	400x400	300Ø	
D7-D9	PAC.2	SUPPLY	2-WAY DIRECTIONAL	450x450	400x400	300Ø	
D10-D11	PAC.2	SUPPLY	2-WAY DIRECTIONAL	450x450	400x400	350Ø	
D12	PAC.2	SUPPLY	3-WAY DIRECTIONAL	450x450	400x400	300Ø	
D13	PAC.2	SUPPLY	LOUVRE FACED	450x450	400x400	200Ø	
D14	PAC.2	SUPPLY	LOUVRE FACED	450x450	400x400	350Ø	
G1	EF.1	EXHAUST	EGG CRATE	300x300	300x300	200Ø	
G2	PAC.1	EXHAUST	EGG CRATE	900x600	900x600	600Ø	
G3	PAC.1	EXHAUST	EGG CRATE	900x600	900x600	2 x 500Ø	
G4-G5	PAC.2	RELIEF	EGG CRATE	300x300	300x300	200Ø	
G6	PAC.2	RETURN	EGG CRATE	1200x600	TO SUIT		
G7-G8	TEF.1	EXHAUST	EGG CRATE	300x300	300x300	150Ø	
G9	TEF.1	EXHAUST	EGG CRATE	300x300	300x300	200Ø	
G10-G11	TEF.1	RELIEF	EGG CRATE	300x300	300x300	225Ø	

NOTE:

- ALL FRONT OF HOUSE GRILLES AND DIFFUSERS TO BE BLACK.
- ALL BACK OF HOUSE GRILLES AND DIFFUSERS TO BE WHITE.



DETAIL
VSD & AC CONTROLLER



SCHEMATIC
AIR BALANCE
POST-OPENING SETTINGS

CI	CONSTRUCTION ISSUE	29/10/2025	AC
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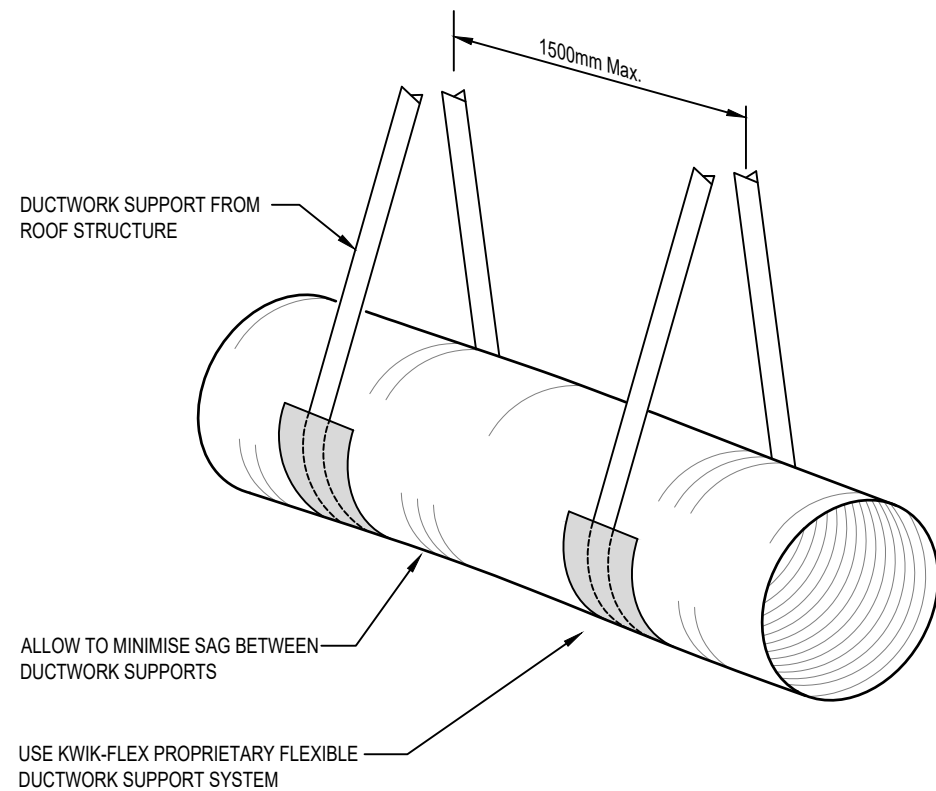
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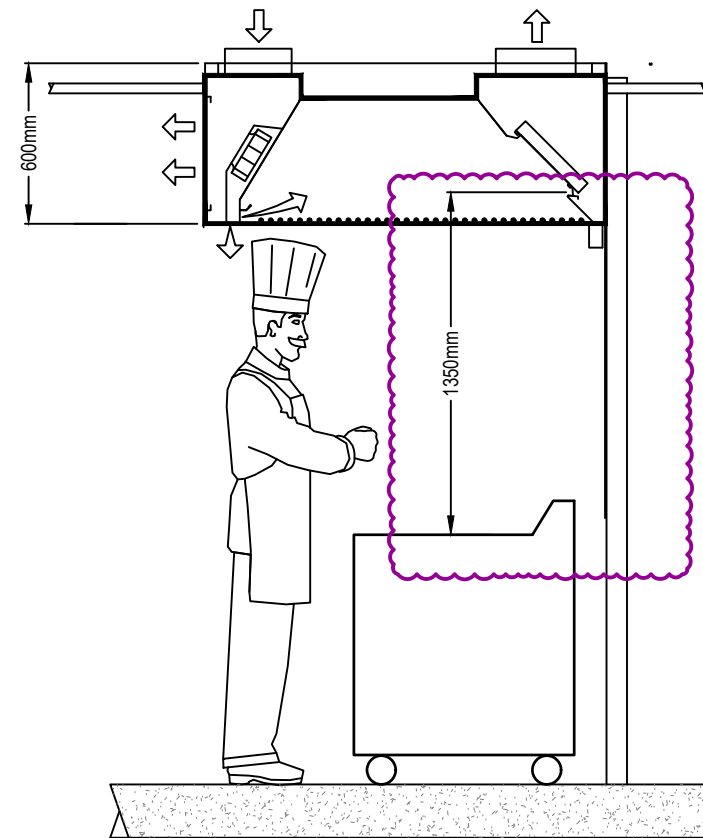
Project GYG STRATHPINE 90 GYMPIE ROAD STRATHPINE QLD					Title MECHANICAL SERVICES DETAILS PAGE [1]				
Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
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Project GYG STRATHPINE 90 GYMPIE ROAD STRATHPINE QLD					Title MECHANICAL SERVICES DETAILS PAGE [1]				
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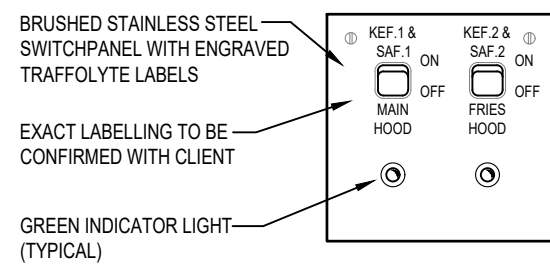
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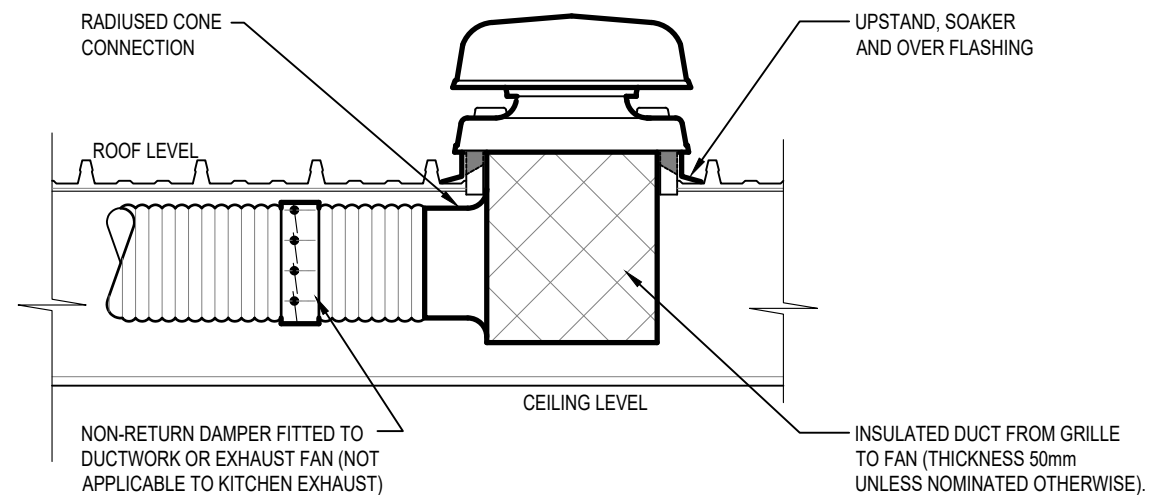
DETAIL
FLEXIBLE DUCTWORK SUPPORT **B**



DETAIL
KITCHEN HOOD SECTION **D**



DETAIL
VENTILATION CONTROL PANEL **C**



DETAIL NOT TO SCALE
ROOF-MOUNTED EXHAUST FAN WITH FLEXIBLE DUCTWORK CONNECTION **E**

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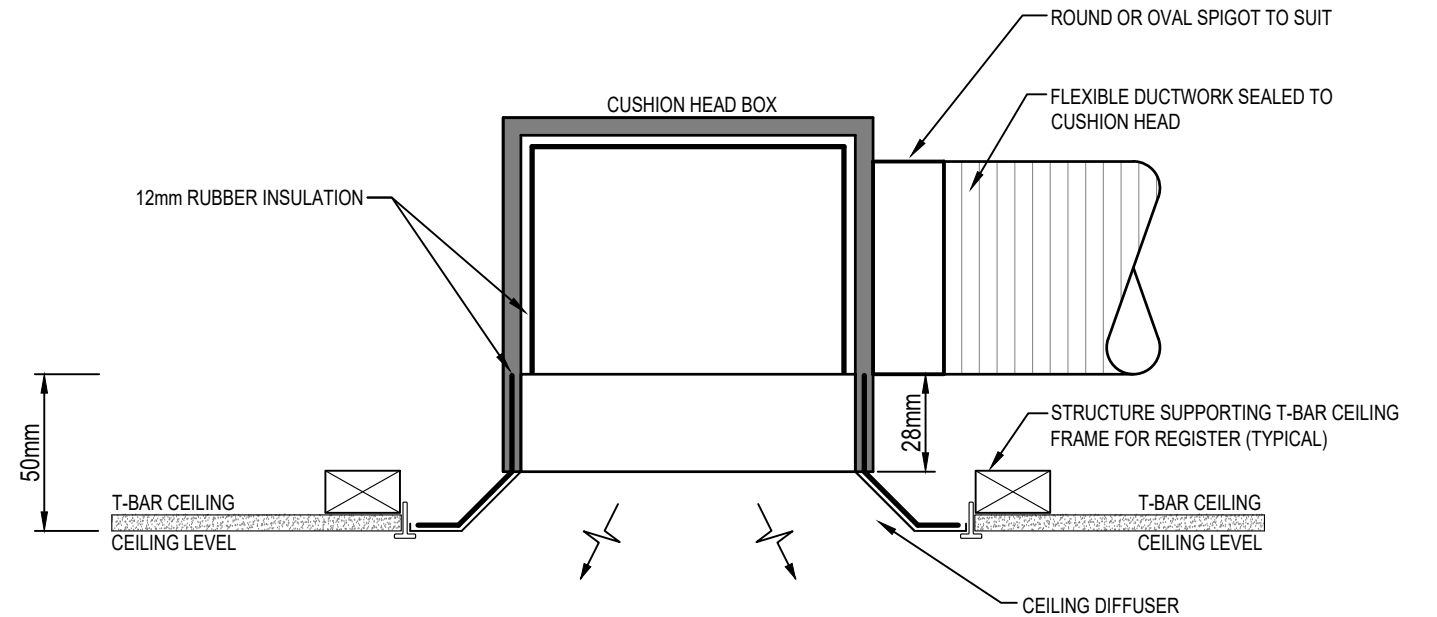
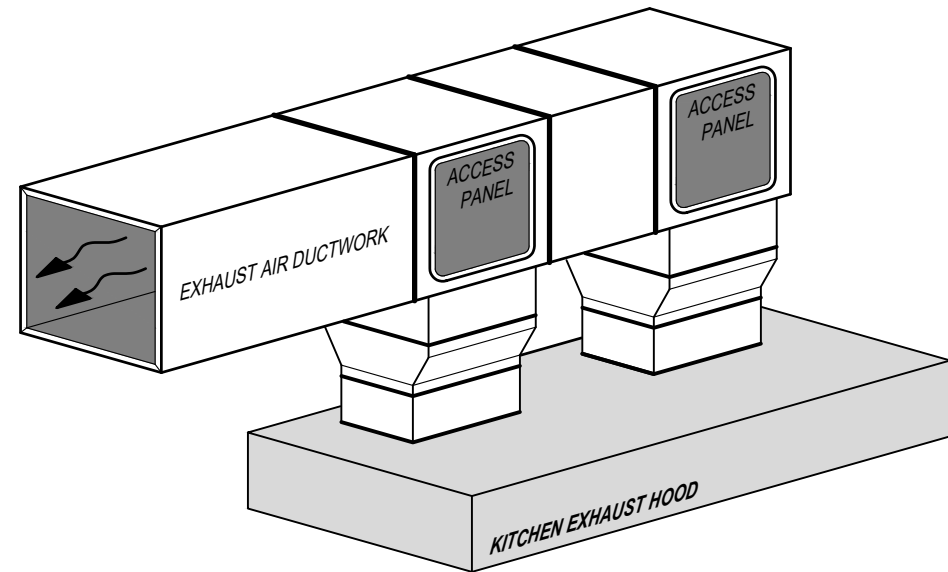


Project
GYG STRATHPINE
90 GYMPIE ROAD
STRATHPINE QLD

Title
MECHANICAL SERVICES
DETAILS PAGE [2]

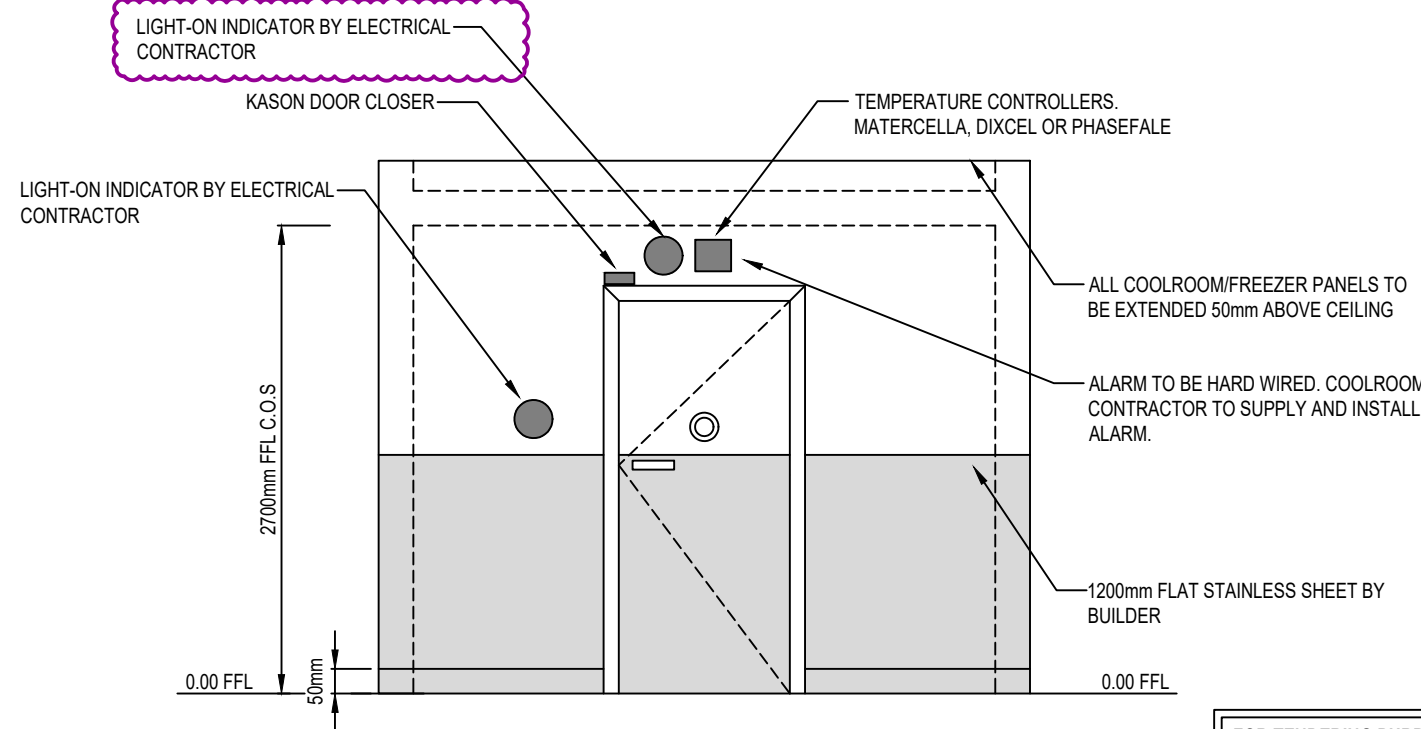
Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M07	CI	00

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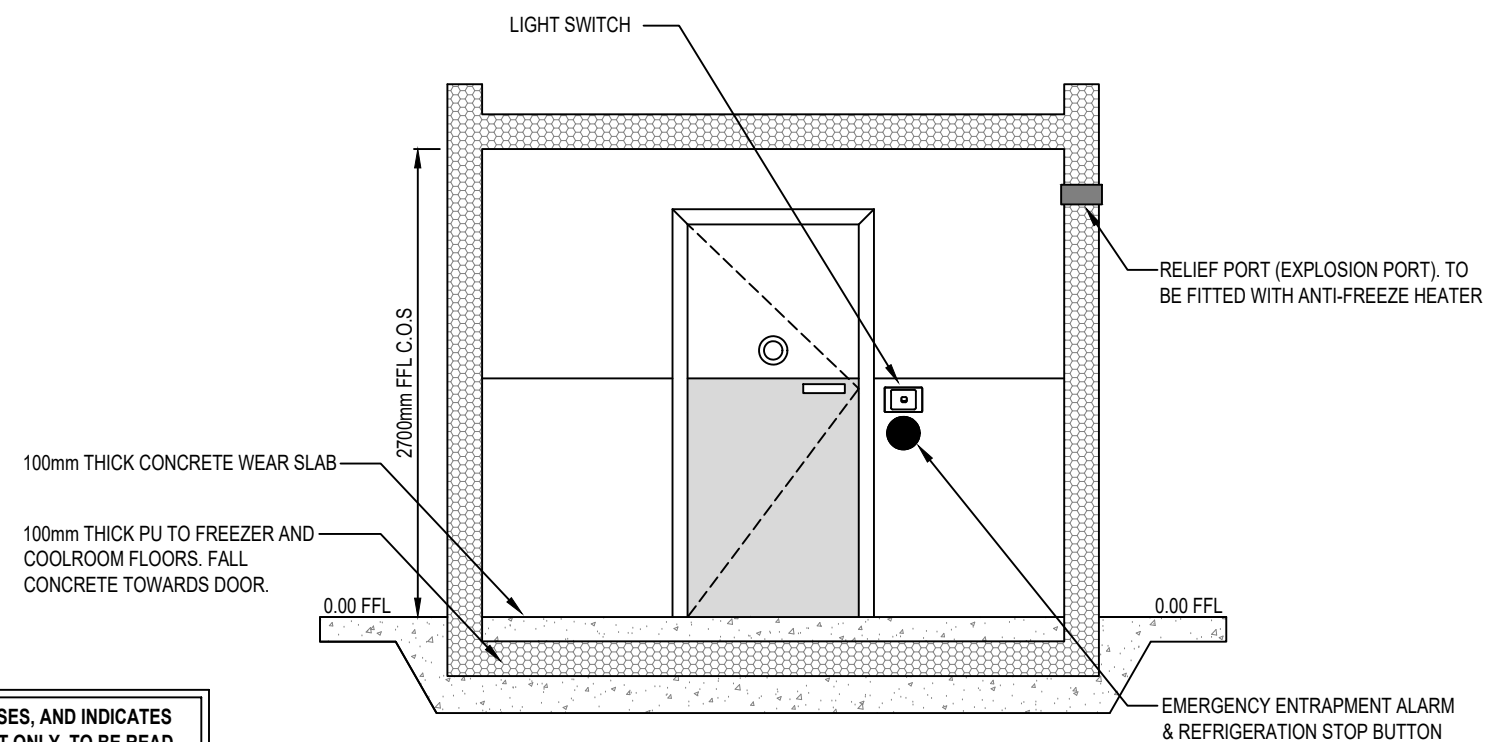


DETAIL N.T.S
KITCHEN EXHAUST HOOD DUCTWORK CONNECTION

DETAIL N.T.S
CUSHION HEAD REGISTER



ELEVATION A-A N.T.S
COOLROOM & FREEZER EXTERNAL ELEVATION (TYPICAL)



ELEVATION B-B N.T.S
COOLROOM & FREEZER INTERNAL ELEVATION (TYPICAL)

FOR TENDERING PURPOSES, AND INDICATES GENERAL DESIGN INTENT ONLY. TO BE READ IN CONJUNCTION WITH ALL OTHER PROJECT DRAWINGS & SPECIFICATIONS. USE FIGURED DIMENSIONS ONLY - DO NOT SCALE

DD	DESIGN DEVELOPMENT	29/10/2025	MT
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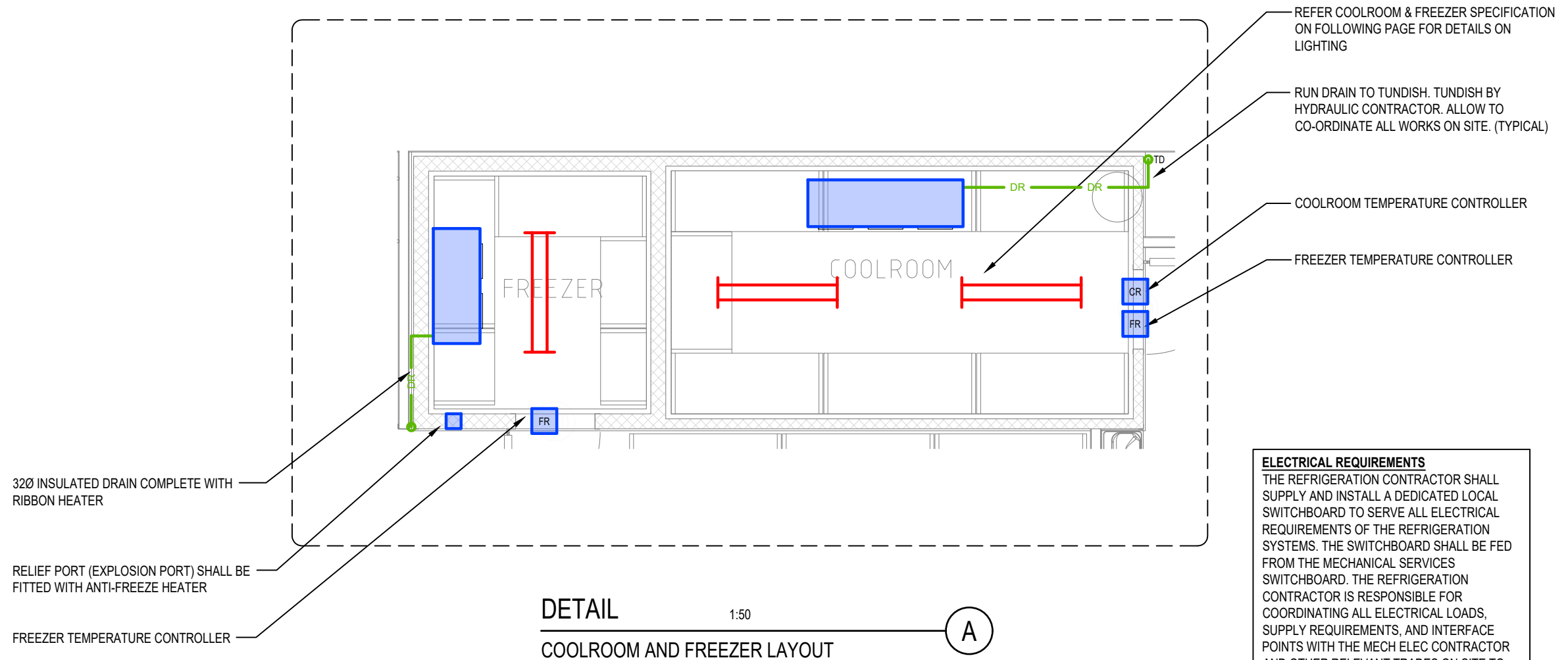


Project
 GYG STRATHPINE
 90 GYMPIE ROAD
 STRATHPINE QLD

Title
 MECHANICAL SERVICES
 DETAILS PAGE [3]

Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
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ELECTRICAL REQUIREMENTS
 THE REFRIGERATION CONTRACTOR SHALL SUPPLY AND INSTALL A DEDICATED LOCAL SWITCHBOARD TO SERVE ALL ELECTRICAL REQUIREMENTS OF THE REFRIGERATION SYSTEMS. THE SWITCHBOARD SHALL BE FED FROM THE MECHANICAL SERVICES SWITCHBOARD. THE REFRIGERATION CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL ELECTRICAL LOADS, SUPPLY REQUIREMENTS, AND INTERFACE POINTS WITH THE MECH ELEC CONTRACTOR AND OTHER RELEVANT TRADES ON SITE TO ENSURE COMPATIBILITY AND COMPLIANCE WITH PROJECT REQUIREMENTS.

SCHEDULE OF COOLROOM & FREEZER CONSTRUCTION

DESIGNATION	DIMENSIONS	INSULATION DETAILS ¹					DESIGN TEMPERATURES		HEATLOADS	MAXIMUM TEMPERATURE BETWEEN ROOM AND EVAPORATIVE COIL
		WALLS	CEILINGS	FLOOR	DOORS	DIVIDING WALLS	ROOM	AMBIENT		
COOLROOM	REFER DRAWINGS	100mm EPS FR CLASS M	100mm EPS FR CLASS M	100mm PU	100mm EPS FR CLASS M	100mm EPS FR CLASS M	+2 degC	+38degC	3,400W	6.0 (max) degC
FREEZER	REFER DRAWINGS	150mm EPS FR CLASS M	150mm EPS FR CLASS M	100mm PU	150mm EPS FR CLASS M	150mm EPS FR CLASS M	-18 degC	+38degC	2,000W	6.0 (max) degC

SCHEDULE OF COOLROOM & FREEZER EQUIPMENT

DESIGNATION	MANUFACTURER	EVAPORATOR				CONDENSER				REFRIGERANT	THERMOSTAT
		MODEL	SIZE (W x D x H)	FANS	WEIGHT	MODEL	SIZE (W x D x H)	COMPRESSOR	WEIGHT		
COOLROOM	KIRBY ²	KMSHA3047	1560mm x 470mm x 494mm	3 x 300mm AC	31kg	PPS057LMHA1-6	750mm x 660mm x 730mm	SEMI-HERMETIC	90	R134A	DIXELL XLR130R COOLMATE THERMOSTAT MED TEMP
FREEZER	KIRBY ²	KLSHA2023	1155mm x 470mm x 494mm	2 x 300mm AC	23kg	PPS057LMHA1-6	750mm x 660mm x 730mm	SEMI-HERMETIC	90	R448A	DIXELL XLR170R COOLMATE THERMOSTAT LOW TEMP

- NOTES**
- 'EPS FR' INDICATES EXPANDED POLYSTYRENE FIRE RATED PANEL BY BONDOR OR APPROVED EQUAL
'PU' INDICATES POLYURETHANE OR APPROVED EQUAL
 - BASE OFFER FOR EQUIPMENT SHALL BE KIRBY. ALTERNATIVE BRANDS MAY BE OFFERED FOR CONSIDERATION

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Project					Title				
GYG STRATHPINE 90 GYMPIE ROAD STRATHPINE QLD					MECHANICAL SERVICES COOLROOM & FREEZER LAYOUT				
Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
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COOLROOM & FREEZER

FABRICATE AND INSTALL THE FOLLOWING COOLROOMS & FREEZER. THE UNITS SHALL BE SUPPLIED COMPLETE WITH FLOORS, WALLS, CEILINGS, DOORS AND SEALS, LIGHTS, EXTERNAL BELL ALARM, EVAPORATOR, CONDENSING UNIT, INTERCONNECTING PIPEWORK, DRAINS AND CONTROLS, TO ENSURE PROPER AND SAFE OPERATION AND TO MEET THE NOMINATED PERFORMANCE REQUIREMENTS AND THE BCA.

1. CONSTRUCTION OF PANELS

- THE COOLROOM WALL AND CEILING PANELS SHALL BE FACTORY PRE-FABRICATED RIGID CELLULAR POLYSTYRENE, FACED INTERNALLY WITH 0.6MM GALVABOND STEEL AUTOMATICALLY LAMINATED TO THE POLYSTYRENE CORE USING A THERMO STABLE STRUCTURAL ADHESIVE AND EXTERNALLY WITH 0.5MM GALVABOND STEEL FINISHED WITH UV RESISTANT EMBOSSED PVC FILM TO NOMINATED COLOUR.
- EXPANDED POLYSTYRENE CENTRAL CORE SHALL INCORPORATE FIRE RETARDANT ADDITIVES TO BE SELF EXTINGUISHING TO AS 1530.3-1982. THE THERMAL CONDUCTIVITY OF THE PANELS SHALL NOT EXCEED 0.38 W/M.K AT 25°C MEAN TEMPERATURE.

2. PANEL JOINTS

- ALL PANEL JOINTS SHALL BE TRIMMED WITH EXTRUDED ALUMINIUM MOULDS AND CORNER ANGLES ARRANGED TO AVOID CONTACT BETWEEN INTERNAL AND EXTERNAL METAL FACE ELEMENTS. EACH JOINT SHALL BE VAPOUR SEALED WITH A FLEXIBLE SILICONE SEALANT.
- ALL FIXING ANGLES, FASTENERS AND THE LIKE SHALL BE SUITABLY PLATED FOR CORROSION RESISTANCE.
- ADEQUATE PROVISION SHALL BE MADE IN ALL JOINTS FOR THERMAL EXPANSION AND CONTRACTION.
- ALL INTERNAL FEMALE JOINTS SHALL BE FACTORY CAULKED AND ALL EXTERNAL JOINTS SHALL BE CAULKED AS RECOMMENDED BY THE MANUFACTURER.

3. FLOOR AND FLOOR JOINTS

- WALLS SHALL BE FIXED DIRECTLY TO THE COVED CONCRETE PLINTH ON A CONTINUOUS BED OF NEUTRAL CURING SILICONE SEALANT USING 6MM DIAMETER APPROVED MASONRY ANCHORS AT A MINIMUM OF 500MM CENTRES.
- THE DOOR SHALL FINISH AT FLOOR LEVEL WITHOUT A STEP.

4. DOORS

- HINGED DOORS SHALL BE FABRICATED AS FOR WALL PANELS WITH HEAVY DUTY CHROME PLATED SAFETY RELEASE DOOR MECHANISM IN ACCORDANCE WITH BCA AND ADJUSTABLE HINGES.
- DOORS AND DOOR JAMBS SHALL BE PROVIDED WITH APPROVED SEALS, AND ELECTRIC ELEMENTS FOR OPERATING CONDITIONS BELOW FREEZING.
- THE DOOR SHALL BE CAPABLE OF SELF-CLOSING IN ACCORDANCE WITH BCA REQUIREMENTS.

5. LIGHTING

PROVIDE LIGHT FITTING WITH FLUORESCENT TUBES SUITABLE FOR THE TEMPERATURE AND ENVIRONMENT IN WHICH THEY OPERATE AND SEALING OF PENETRATION THROUGH THE INSULATION VAPOUR BARRIER. LIGHT TO BE TYPE THAT WILL PROVIDE A MINIMUM INSULATION LEVEL OF 300 LUX. SWITCH TO BE LOCATED ON INSIDE WALL ADJACENT TO DOOR WITH INDICATOR LIGHT OUTSIDE ABOVE DOOR IN ACCORDANCE WITH BCA REQUIREMENTS.

6. PENETRATIONS

SUPERVISE TRADES PERSONS WHEN HOLES ARE FORMED THROUGH PANELS FOR PIPES, CONDUITS, ETC. ALL PENETRATIONS SHALL BE OF MINIMUM PRACTICABLE DIAMETER. ALL PENETRATIONS SHALL BE SEALED TO THE RECOMMENDATIONS OF THE PANEL MANUFACTURER.

7. SUNDRY EQUIPMENT

- PROVIDE PRESSURE RELIEF AS NECESSARY.
- SUPPLY AND INSTALL A MANUAL BELL ALARM TO EACH CHAMBER, THE ALARM IS TO BE LOCATED OUTSIDE THE CHAMBER BUT CONTROLLABLE ONLY FROM WITHIN THE CHAMBER. THE ALARM IS TO BE CAPABLE OF ACHIEVING A SOUND PRESSURE LEVEL OF 90 DB(A) WHEN MEASURED 3 M FROM THE SOUNDING DEVICE.
- PROVIDE EACH COOLROOM WITH A DIGITAL THERMOMETER AND ALARM SHOULD TEMPERATURES EXCEED SET LEVELS, COMPLETE WITH NECESSARY CAPILLARY TUBING AND BULB TO INDICATE COOLROOM AIR TEMPERATURE.

8. COOLROOM REFRIGERATION EQUIPMENT

- EQUIPMENT SHALL BE SELECTED TO MAINTAIN THE NOMINATED CONDITIONS AND SHALL COMPRISE A HIGH LEVEL FAN FORCED EVAPORATOR, AIR COOLED PACKAGED CONDENSER AND ALL ASSOCIATED PIPING, WIRING AND CONTROL AND INDICATING EQUIPMENT DETAILED BELOW.
- CONDENSING UNITS SHALL BE SUITABLE FOR EXTERNAL OPERATION. PROVIDE ANY NECESSARY WEATHERPROOFING AND INSTALL STRICTLY IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

9. HEATERS

SUPPLY AND INSTALL ELECTRIC HEATING TO DRAINS AND DOOR SEALS FOR ALL ROOMS OPERATING BELOW FREEZING POINT.

BCA REQUIREMENTS

THE COOLROOM & FREEZER INSTALLATION MUST COMPLY WITH THE FOLLOWING REQUIREMENTS FROM PART G1 IN THE NATIONAL CONSTRUCTION CODE:

- (1) A REFRIGERATED OR COOLING CHAMBER, STRONGROOM OR VAULT THAT IS OF SUFFICIENT SIZE FOR A PERSON TO ENTER MUST HAVE—
 - (a) A DOOR WHICH IS CAPABLE OF BEING OPENED BY HAND FROM INSIDE WITHOUT A KEY; AND
 - (b) INTERNAL LIGHTING CONTROLLED ONLY BY A SWITCH WHICH IS LOCATED ADJACENT TO THE ENTRANCE DOORWAY INSIDE THE CHAMBER STRONGROOM OR VAULT; AND
 - (c) AN INDICATOR LAMP POSITIONED OUTSIDE THE CHAMBER, STRONGROOM OR VAULT WHICH IS ILLUMINATED WHEN THE INTERIOR LIGHTS REQUIRED BY (B) ARE SWITCHED ON; AND
 - (d) AN ALARM THAT IS—
 - (i) LOCATED OUTSIDE BUT CONTROLLABLE ONLY FROM WITHIN THE CHAMBER, STRONGROOM OR VAULT; AND
 - (ii) ABLE TO ACHIEVE A SOUND PRESSURE LEVEL OUTSIDE THE CHAMBER, STRONGROOM OR VAULT OF 90 DB(A) WHEN MEASURED 3 M FROM THE SOUNDING DEVICE.
- (2) A DOOR REQUIRED BY (1)(a) IN A REFRIGERATED OR COOLING CHAMBER MUST HAVE A DOORWAY WITH A CLEAR WIDTH OF NOT LESS THAN 600 MM AND A CLEAR HEIGHT NOT LESS THAN 1.5 M.

MECHANICAL SERVICES SWITCHBOARD (MSSB)

SUPPLY AND INSTALL ALL THE ELECTRICAL EQUIPMENT AND WIRING ASSOCIATED WITH THE MECHANICAL PLANT AND ITS CONTROL GEAR, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

- a) MECHANICAL SERVICES SWITCHBOARDS;
- b) WIRING OF MECHANICAL PLANT;
- c) WIRING OF ALL AUTOMATIC CONTROLS;
- d) COMMISSIONING;

SUPPLY AND INSTALL THE MECHANICAL SERVICES SWITCHBOARD WHERE SHOWN ON THE DRAWINGS. IT SHALL BE A SHEET STEEL ENCLOSED UNIT, FITTED WITH ENCLOSING DOORS WITH LOCKS AND SHALL COMBINE THE FUNCTIONS OF DISTRIBUTION, STARTER AND CONTROL.

INDICATOR LIGHTS ARE REQUIRED FOR ALL FANS AND ESP.

EARTH IN ACCORDANCE WITH THE ELECTRICITY SUPPLY AUTHORITY'S REQUIREMENTS.

THE MSSB SHALL BE EQUIPPED AS FOLLOWS:

1. SCHEDULE OF MSSB

DESIGNATION: MSSB
MOUNTING: WALL
CONSTRUCTION: STEEL
FINISH: POWDER COAT GREY
RATING: 160amp

2. EQUIPMENT LIST

- **LINKS**
EARTH BAR
NEUTRAL BAR
- **ISOLATORS**
NON-AUTO MCB OF TERASAKI.
- **CIRCUIT BREAKERS**
UP TO 100 AMP - TERASAKI DIN T MCB
GREATER THAN 100 AMP - TERASAKI TEBREAK MCB.
- **STARTER GEAR**
SPRECHER & SHUH, SCHNEIDER, ABB
- **VARIABLE SPEED DRIVES**
ABB
- **CONTROL SWITCHES**
S & S, SNEIDER, ABB WITH SUITABLY ENGRAVED LABELS, INDICATING SWITCH POSITION POSITION AND EQUIPMENT CONTROLLED
- **INDICATOR LIGHTS**
S & S - D5 RANGE. LENS COLOUR SHALL REFLECT STATUS SUCH AS;
GREEN - RUN
ORANGE - STOP
RED - ALARM

- TIME-CLOCK

2 CHANNEL PROGRAMMABLE DIGITAL TIME CLOCK, SIMILAR TO NHP GRASSLIN.

4. SPARE CAPACITY

THE MSSB SHALL BE SUITABLY SIZED WITH 30% SPARE CAPACITY.

5. LABELLING

ALL ITEMS OF EQUIPMENT AND CONTROL SWITCHES IN SWITCHBOARDS AND CONTROL PANELS SHALL BE IDENTIFIED WITH ENGRAVED TRAFFOLYTE LABELS SECURED TO THE PANELS WITH SELF TAPPING SCREWS.

6. SUB-MAINS

- SUB-MAINS FOR THE MSSB WILL BE SUPPLIED AND INSTALLED BY THE ELECTRICAL CONTRACTOR TO A POINT ADJACENT TO THE MSSB.
- ALLOW TO RUN THE TAILS INTO THE PANEL, SEAL, TERMINATE, EARTH AND CONNECT THE CABLES.

6. INSTALLATION OF SUB-CIRCUIT WIRING

- SUPPLY AND INSTALL ALL SUB-CIRCUIT WIRING BETWEEN THE SWITCHBOARDS, CONTROL PANELS AND THE ITEMS OF MECHANICAL EQUIPMENT AS SCHEDULED AND ALSO THE CONTROL WIRING BETWEEN THE VARIOUS AUTOMATIC AND MANUAL CONTROLS, INSTRUMENTS AND OTHER DEVICES.
- CAREFULLY REFER TO THE AUTOMATIC CONTROLS SECTION AND/OR DESCRIPTION FOR DETAILS OF THE VARIOUS CONTROLS TO DETERMINE THEIR WIRING REQUIREMENTS AND WHETHER ANY EQUIPMENT IS TO BE INCORPORATED WITHIN THE SWITCHBOARDS.
- PROVIDE SUCH ADDITIONAL ELECTRICAL EQUIPMENT ON THE BOARDS OVER AND ABOVE THAT LISTED TO ENSURE THE PROPER AND SATISFACTORY OPERATION OF THE PARTICULAR CONTROL INSTALLED.
- ALL EQUIPMENT UP TO 20 KW RATING, SHALL BE PROVIDED WITH AN ISOLATING SWITCH ADJACENT TO THE MOTOR. WILCO WISM SERIES SWITCHES SHALL BE USED.
- EQUIPMENT GREATER THAN 20 KW SHALL BE PROVIDED WITH A MEANS OF LOCKING ITS ISOLATING SWITCHES IN THE OPEN POSITION ON THE SWITCHBOARD FROM WHICH IT IS SERVED.

7. SUPPLY FOR REFRIGERATION

- THE MECHANICAL CONTRACTOR SHALL SUPPLY A 63AMP 3PH SUPPLY VIA A 16mm Cu XLPE MULTICORE CABLE FROM THE MSSB TO THE PROPOSED LOCATION OF THE REFRIG PANEL BOARD.

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Project
GYG STRATHPINE
90 GYMPIE ROAD
STRATHPINE QLD

Title
MECHANICAL SERVICES
MECHANICAL SPECIFICATION

Scale	Creation Date	Drafter	Engineer	Director	Stage Description	Job No	Dwg No	Stage	Rev.
1:100 @ A3	29.05.2025	PN	MT	SDT	CI = CONSTRUCTION ISSUE	12640	M10	CI	00