





## NOTES

GENERAL:

1. THE MECHANICAL CONTRACTOR SHALL CERTIFY THE INSTALLATION.
2. SET OUT OF ACCESS PANELS, LOUVRES & GRILLES SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. INSTALLATION OF ACCESS PANELS & CUTTING OUT GRILLES SHALL BE PROVIDED BY WALL/CEILING CONTRACTOR.
3. ALL LOUVRES & OUTDOOR AIR INTAKE FANS SHALL HAVE VERMIN PROOF WIRE MESH INSIDE.
4. PROVIDE ANCILLARY SUPPORTS FOR MECHANICAL EQUIPMENT.
5. PROVIDE ALL NECESSARY STRUCTURAL SUPPORTS FOR MECHANICAL EQUIPMENT, DUCTWORK & WIRING.
6. ALL WIRING SHOULD BE INSTALLED TO AS3000.
7. ALL EQUIPMENT SHALL BE PROVIDED WITH LOCAL ELECTRICAL ISOLATORS.
8. POWER SUPPLIES TO BE TERMINATED AT THE MECHANICAL SERVICES SWITCHBOARD BY ELECTRICAL TRADE. CONTROL & POWER WIRING TO ALL EQUIPMENT BY THE MECHANICAL TRADE.
9. ALL SQUARE BENDS TO HAVE TURNING VANES UNLESS:
  - a) THE DUCT DIMENSION PERPENDICULAR TO THE TURNING VANE IS LESS THAN 200mm.
11. WHERE DUCTWORK PENETRATES RISERS OR DROPPERS, AN AIR TIGHT SEAL SHALL BE PROVIDED. THE SEAL SHALL BE FIRE RATED WHERE REQUIRED.
12. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, FIRE, HYDRAULIC, MECHANICAL & ELECTRICAL ENGINEERS' DETAIL DRAWINGS & SPECIFICATIONS.
13. CO-ORDINATE ALL WORKS WITH ALL OTHER SERVICES ASSOCIATED WITH THE PROJECT.
14. ALL PROPOSED WORKS TO COMPLY WITH THE ENERGY EFFICIENCY REQUIREMENTS OF THE BUILDING CODE OF AUSTRALIA (BCA) PART J.
15. ALL WORKS TO BE COMPLETED ACCORDING TO BUILDING CODE OF AUSTRALIA & AUSTRALIAN STANDARD REQUIREMENTS.
16. ALLOW FOR A QUALIFIED TECHNICIAN TO UNDERTAKE FOUR (4 ONLY) X TWO HOURLY VISITS TO SITE AFTER HAND OVER TO RESOLVE ANY ISSUES RAISED BY THE SUPERINTENDENT.
17. THE CONTRACTOR IS TO PAY ALL ASSOCIATED FEES & MAINTAIN A COMPLETE SET OF DRAWINGS ON SITE WITH THE LATEST AMENDMENTS & REVISIONS. RECORD/MARK ALL DEVIATIONS & CHANGES ON THE DRAWINGS DUE TO SITE CONDITIONS, AS THE WORK PROGRESSES. AFTER PRACTICAL COMPLETION, SUBMIT A FULL SET OF "AS BUILT" DRAWINGS OF AN EQUAL STANDARD & FORMAT OF THE CONTRACT DRAWINGS. PROVIDE 3 COPIES OF THE "AS BUILT" DRAWINGS. THE ORIGINALS ARE TO BE FORWARDED TO THE BUILDING OWNER.
18. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH NEW SOUTH WALES WORKPLACE HEALTH & SAFETY REGULATIONS.
19. ALL ADDITIONAL ACCESS PANELS & THEIR LOCATIONS TO BE APPROVED & CO-ORDINATED ON SITE WITH THE ARCHITECT.
20. ALL WALL MOUNTED SPLIT UNITS, CEILING CASSETTES, BULKHEAD UNITS & FAN-COIL UNITS TO BE PROVIDED WITH CONDENSATE DRAINS, DIRECTED TO THE NEAREST TUNDRISH & SHALL BE MINIMUM 932mm WITH MINIMUM FALL OF 1:100. DRAINS SHALL BE INSULATED FOR 5m FROM THE UNIT.
21. FANS TO BE RESILIENTLY MOUNTED & PROVIDED WITH SPRING OR NEOPRENE PADS TO ABSORB VIBRATION, TO FAN MANUFACTURERS RECOMMENDATIONS.

22. ALL DIMENSIONS TO BE VERIFIED ON SITE (VOS) PRIOR TO CONSTRUCTION/MANUFACTURE. REFER ALL DISCREPANCIES TO EPICENTRE CONSULTING ENGINEERS". DO NOT SCALE OFF DRAWINGS.
23. REFER TO THE DELIVERABLES WITHIN THE ASSOCIATED SPECIFICATION. PROVIDE A SCHEDULE OF DELIVERABLES TO THE SITE SUPERVISOR. THIS IS TO INCLUDE DATES FOR WORKSHOP DRAWINGS, COMMISSIONING FIGURES, MANUALS & AS INSTALLED DRAWINGS. REFER TO THE MECHANICAL SERVICES SPECIFICATION FOR FURTHER DETAILS ON THESE ITEMS.
24. ALL SUPPLY AIR DIFFUSERS TO BE WASHED, CLEANED & PLenums VACUUMED TO ENSURE ALL DUST & DIRT IS REMOVED.
25. DOOR GRILLES TO BE SUPPLIED & INSTALLED BY MECHANICAL CONTRACTOR. DOOR TO BE CUT BY BUILDER.
26. ALL WORK & MATERIAL NOT SPECIFICALLY MENTIONED IN THE FOLLOWING MECHANICAL SERVICES DRAWINGS BUT OBVIOUSLY NECESSARY FOR THE PROPER & COMPLETE INSTALLATION & OPERATION OF THE SERVICES, SHALL BE DEEMED TO HAVE BEEN INCLUDED IN THE CONTRACT. NO VARIATIONS WILL BE ALLOWED FOR THE NECESSARY WORK UNFORSEEN BY THE MECHANICAL SUB-CONTRACTOR THROUGHOUT NOT HAVING TAKEN THIS PRECAUTION.
27. THE MECHANICAL CONTRACTOR SHALL ENSURE THAT ALL REFRIGERANT PIPEWORK SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS & IN ACCORDANCE WITH A5514.9 MINIMUM REFRIGERANT CONCENTRATION LEVELS.

DUCTWORK:

1. ALL DUCT DIMENSIONS ARE CLEAR INTERNAL DIMENSIONS.
2. CONSTRUCTION & INSTALLATION OF DUCTWORK SHALL BE IN ACCORDANCE WITH AS1668 & AS4254.
3. ALL FLEXIBLE DUCTS TO BE ACOUSTIC TYPE WITH INNER DUCT WRAPPED IN 32 KG/M<sup>3</sup>, 25mm THICK FIBRE GLASS WITH ALUMINUM OUTER FOIL FACE LAMINATE. FLEXIBLE DUCT TO COMPLY WITH BCA SPEC C110 & AS4256-1996.
4. THE TOTAL LENGTH OF FLEXIBLE DUCT BETWEEN SPIGOT & OUTLET SHALL NOT EXCEED 6m.
5. THE CONTRACTOR SHALL PROVIDE ALL AIR DAMPERS REQUIRED TO ADEQUATELY COMMISSION & BALANCE ALL AIR SYSTEMS.
6. PROVIDE ACCESS PANELS IN DUCTWORK FOR ALL FIRE DAMPERS.

## CONTROLS

TOILET EXHAUST:

1. TOILET EXHAUST FANS SHALL BE PROVIDED WITH AN INTERLOCK TO THE LIGHTING CIRCUIT (BY ELECTRICAL TRADE) c/w A 5 MIN. RUN-ON TIMER (ADJUSTABLE).

KITCHEN HOOD EXHAUST & MAKE-UP AIR:

1. THE FOLLOWING FANS SHALL BE INTERLOCKED WITH THE OPERATION OF THE EXHAUST HOOD.

FIRE MODE:

1. THE FIRE CONTRACTOR SHALL PROVIDE FIRE TRIPS ADJACENT ALL MECHANICAL EQUIPMENT, REQUIRED TO SHUTDOWN IN FIRE MODE. FINAL TERMINATION BY THE MECHANICAL CONTRACTOR. FIRE SHUTDOWN SHALL BE IN ACCORDANCE WITH AS1668.1 & AS1670.1.

[illegible]

CO-ORDINATED REFERENCE DRAWINGS		
SERVICE	DRAWING NUMBER	DATE
ARCH		
CIVIL		
ELEC		
MECH		
RCP		
STRUCT		

**NOTES:**

- DRAWING SHALL BE PRINTED IN **COLOUR**.
- SYMBOLS ARE DRAWN IN CORRECT LOCATION.
- DO NOT SCALE THIS DRAWING. FIGURED DIMENSIONS TO BE USED ONLY.
- DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED ON DRAWING.

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Project:

MONA VALE GOLF CLUB  
3 GOLF AVE, MONA VALE  
NSW 2102

Drawing Title:

## MECHANICAL SERVICES NOTES & SCHEDULES

NOT FOR CONSTRUCTION

North Point:	Design:	—		
	Design Validated:	EA		
	Amendment Approved:	JM		
	Drawn:	—		
Date:	MARCH 2022	Scale:	(A1)	NTS
Job No.:	Disc:	Dwg No.:	Stage:	Issue:
22731-001-	M	- 001-	P	-02

## DEVELOPMENT APPLICATION

ORIGINAL SIZE: A1P







CO-ORDINATED REFERENCE DRAWINGS			
SERVICE	DRAWING NUMBER		DATE
ARCH	1053-A1100-Ground Floor Plan- Existing-1	01	21.01.2022
CIVIL			
ELEC			
MECH			
RCP			
STRUCT			

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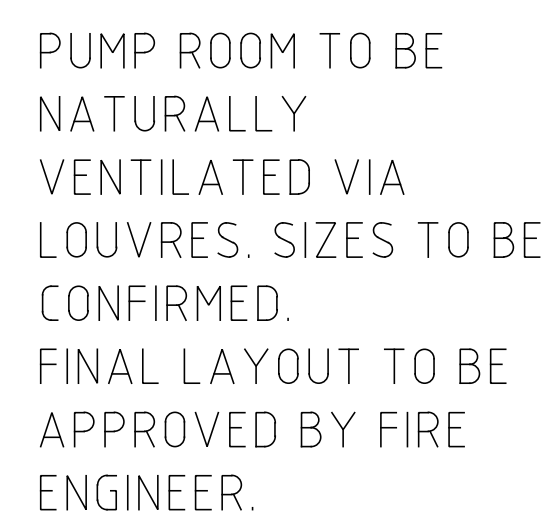
MONA VALE GOLF CLUB  
3 GOLF AVE, MONA VALE  
NSW 2102

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## DEVELOPMENT APPLICATION

ORIGINAL SIZE: A1F





SCALE: NTS

CO-ORDINATED REFERENCE DRAWINGS			
SERVICE	DRAWING NUMBER		DATE
ARCH	1053-A1020-Pumproom and Tank-1	01	28.03.2022
CIVIL			
ELEC			
MECH			
RCP			
STRUCT			

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  - SYMBOLS ARE DRAWN IN CORRECT LOCATION.
  - DO NOT SCALE THIS DRAWING. FIGURED DIMENSIONS TO BE USED ONLY.
  - DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED ON DRAWING.

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Client/Architect:



Services Engineers



Project:

MONA VALE GOLF CLUB  
3 GOLF AVE, MONA VALE  
NSW 2102

Drawing Title:

MECHANICAL SERVICES  
FIRE HYDRANT TANKS  
& PUMPROOM

NOT FOR CONSTRUCTION

North Point:	Design:	AA
	Design Validated:	ALA
	Amendment Approved:	JM
	Drawn:	AA
Date:	MARCH 2022	Scale: (A1) 1:50
Job No.:	Disc:	Drawg No.:
22731-001 - M - 200 - P - 01		Stage:
		Issued:

## DEVELOPMENT APPLICATION

ORIGINAL SIZE: A1P





North Point:	Design:	RJ		
	Design Validated:	EA		
	Amendment Approved:	JM		
	Drawn:	CG		
Date:	MARCH 2022			
Job No.:	Disc:	Dwg No.:	Stage:	Issue:
22731-001 - M	- 300 -	P	-02	

## DEVELOPMENT APPLICATION