

MECHANICAL SERVICES

No	TITLE
ME-0000	COVER SHEET
ME-0001	LEGEND, NOTES AND SCHEDULES
ME-0002	DETAILS SHEET
ME-2000	GROUND FLOOR & LEVEL 1 LAYOUT
ME-2001	LEVEL 2 & 3 LAYOUTS
ME-2002	LEVEL 4 AND ROOF LAYOUTS
ME-2003	ROOF LAYOUT
ME-9000	AIR SCHEMATIC

PROPERTY NSW

CLIENT

ASN CO. BAY 4-5 COMMERCIAL USE

PROJECT



33307

PROJECT No

ME-0000

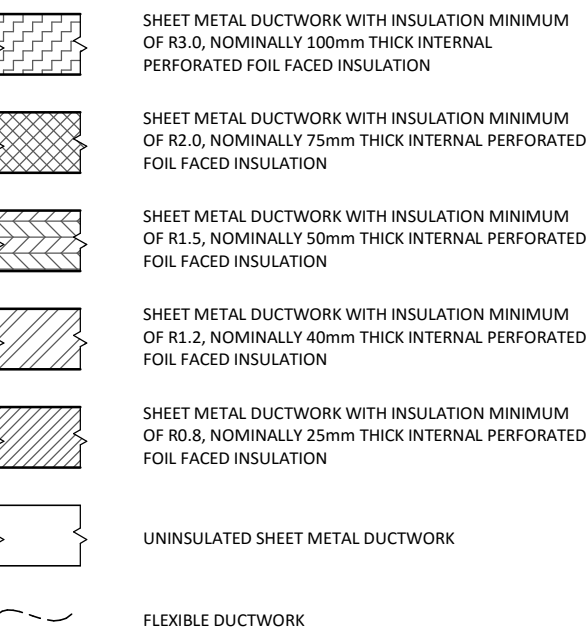
DRAWING No

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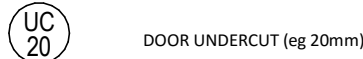
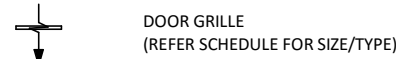
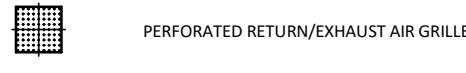
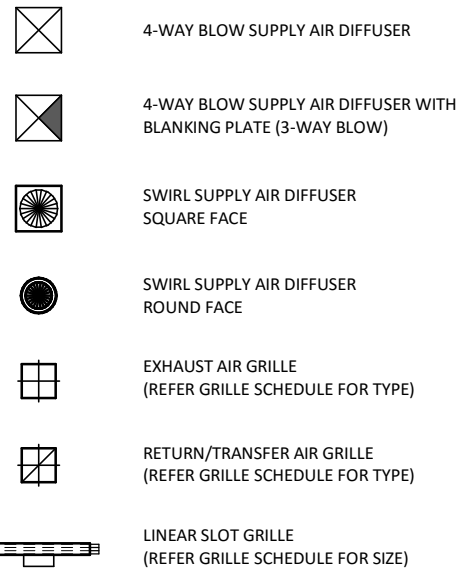
REV

LEGEND

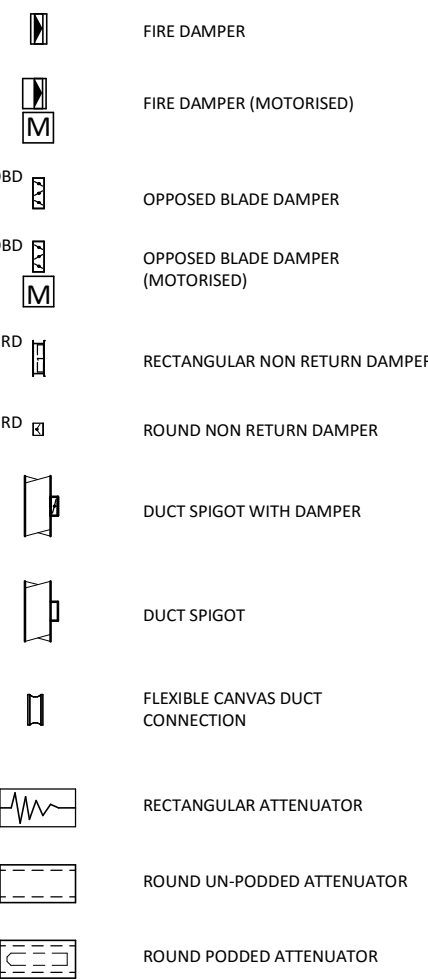
INTERNAL INSULATION
(BASED ON BRADFORD SUPERTEL)



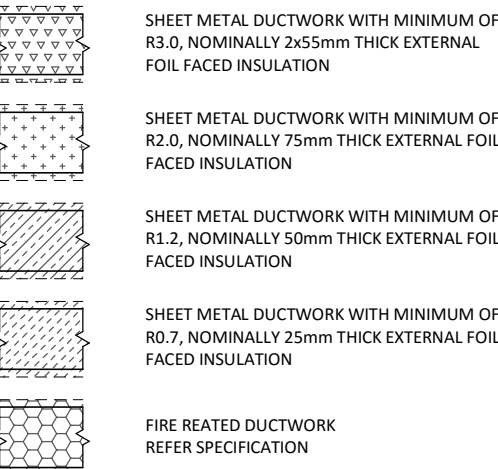
AIR TERMINALS



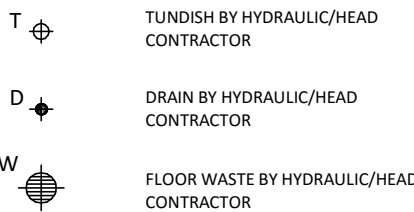
DUCT FITTINGS



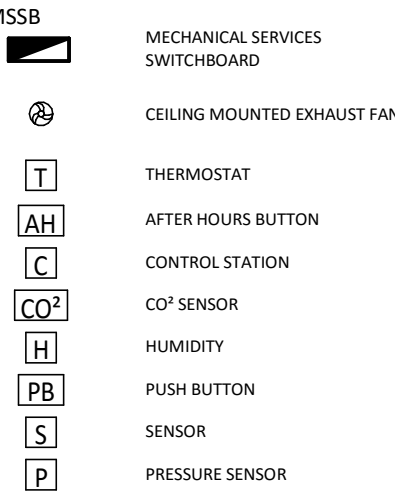
EXTERNAL INSULATION
(BASED ON BRADFORD MULTITEL)



PIPEWORK

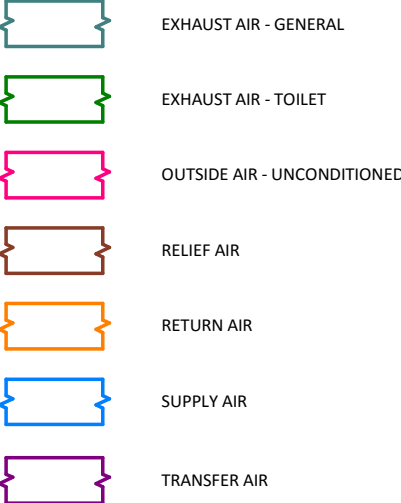


OTHER



COLOURS

DUCTWORK



PIPEWORK



FLEXIBLE DUCT SCHEDULE	
MAX FLOW (L/s)	SIZE
45	150Ø
80	200Ø
150	250Ø
220	300Ø
330	350Ø
425	400Ø
540	450Ø
650	500Ø
R1.0 + 40mm INSULATION R2.0 + 75mm INSULATION	

SEMI-RIGID DUCT SCHEDULE	
MAX FLOW (L/s)	SIZE
80	150Ø
160	200Ø
250	250Ø
360	300Ø
490	350Ø
640	400Ø
810	450Ø
1050	500Ø
R1.0 + 40mm INSULATION R2.0 + 75mm INSULATION	

ABBREVIATIONS

AIRSIDE

A/C	AIR CONDITIONING
ACU	AIR CONDITIONING UNIT
AF	AIR FILTER
AP	ACCESS PANEL
ATT	ATTENUATOR
C/W	COMPETE WITH
CU	CONDENSING UNIT
E/A	EXHAUST AIR
EAF	EXHAUST AIR FAN
EDH	ELECTRIC DUCT HEATER
F/A	FROM ABOVE
F/B	FROM BELOW
FD	FIRE DAMPER
MCP	MECHANICAL SERVICES CONTROL PANEL
MFD	MOTORISED FIRE/SMOKE DAMPER
MSSB	MECHANICAL SERVICES SWITCHBOARD
O/A	OUTSIDE AIR
OAF	OUTSIDE AIR FAN
OBD	OPPOSED BLADE DAMPER
R/A	RETURN AIR
S/A	SUPPLY AIR
SAF	SUPPLY AIR FAN
SD	SET DOWN
SU	STEP UP
T/A	TO ABOVE
T/B	TO BELOW
T/E	TOILET EXHAUST
TEF	TOILET EXHAUST FAN
U/S	UNDERSIDE
VCD	VOLUME CONTROL DAMPER

WATER SIDE

ACC	AIR COOLED CONDENSER
D	DRAIN
FW	FLOOR WASTE
N/C	NORMALLY CLOSED
N/O	NORMALLY OPEN
TD	TUNDISH
REF	REFRIGERANT
FCU	FAN COIL UNIT

NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION.
- ALL DUCT DIMENSIONS ARE CLEAR AIRWAY SIZES UNLESS IS OTHERWISE STATED.
- ALL AIR QUANTITIES ARE IN LITRES PER SECOND (L/s)
- DRAWINGS ARE DIAGRAMMATIC ONLY. FOR DIMENSIONAL & CONSTRUCTION DETAILS OF THE BUILDING, SEE ARCHITECTURAL DRAWINGS.
- FLEXIBLE DUCTWORK RUNS SHALL BE AS SHORT AND STRAIGHT AS POSSIBLE. BENDS SHALL INCORPORATE A BEND CENTRE RADIUS OF NOT LESS THAN 1.5 TIMES THE FLEX DIAMETER. TOTAL LENGTH MUST NOT TO EXCEED 3M.
- FLEXIBLE DUCTWORK SHALL BE ACOUSTIC TYPE WITH A MINIMUM INSULATION
- ALL REFRIGERANT LINES TO BE RUN IN PGI COVERS WHERE EXTERNAL TO THE BUILDING. PAINT TO APPROVED COLOUR.
- MECHANICAL CONTRACTOR TO SIZE REFRIGERANT PIPEWORK & INCLUDE ALL NECESSARY FITTINGS/COMPONENTS IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
- MECHANICAL CONTRACTOR TO ALLOW FOR DUCTWORK TRANSFORMS, OFFSETS ETC WHEREVER TWO DUCTS OR OTHER SERVICES CROSS-OVER AND FOR FINAL CONNECTION TO EQUIPMENT AND FITTINGS.
- THE CONTRACTOR SHALL PROVIDE FULLY CO-ORDINATED INSTALLATION/SHOP DRAWINGS FOR APPROVAL PRIOR TO PROCURING EQUIPMENT AND EXECUTING SITE INSTALLATION WORKS.
- DIFFUSERS/GRILLES TO BE POWDER COATED. ARCHITECT TO CONFIRM EXACT COLOURS PRIOR TO ORDERING EQUIPMENT.
- ALL EXHAUST SYSTEMS TO INCLUDE NON RETURN DAMPERS.
- INTERNAL DUCTWORK/LINING VISIBLE THROUGH GRILLES/REGISTERS TO BE PAINTED TO A COLOUR TO BE SELECTED BY THE ARCHITECT. SAMPLES TO BE SUBMITTED FOR APPROVAL.
- EXHAUST SYSTEMS WITH TWO OR MORE GRILLES TO INCLUDE BALANCING DAMPERS FOR COMMISSIONING.
- MECHANICAL CONTRACTOR TO INCLUDE ALL REQUIRED SECONDARY STEELWORK, UNISTRUT & DROP RODS ETC FOR SERVICES EQUIPMENT.
- PROVIDE SAFETY DRIP TRAYS BELOW ALL DUCTED FAN COIL UNITS INCLUDING FLEXIBLE CONNECTIONS, PIPING AND FITTINGS. PROVIDE INSULATED PIPE CONDENSATE TO TUNDISH. TUNDISH PROVIDED BY HEAD/HYDRAULICS CONTRACTOR.
- ALL DUCTED UNITS TO HAVE INSULATED CONDENSATE DRAINS RUN TO TUNDISH. TUNDISH PROVIDED BY HEAD/HYDRAULICS CONTRACTOR.
- ALL CONDENSING UNITS TO HAVE CONDENSATE DRAINS RUN TO TUNDISH. TUNDISH PROVIDED BY HEAD/HYDRAULICS CONTRACTOR.
- MECHANICAL CONTRACTOR TO LAISE WITH OTHER DISCIPLINES FOR FINAL INTEGRATION OF SERVICES.
- FINAL LOCATION OF THERMOSTATS/SENSORS & CONTROLS TO BE COORDINATED WITH ARCHITECT. ALL FAN COIL UNIT TEMPERATURE SENSORS SHALL BE MOUNTED 1500mm AFL WITH OCCUPANT ADJUSTABLE CONTROLS BETWEEN 900-1100mm AFL.
- ACCESS PANELS IN BUILDER'S AIR PLENUMS SHALL BE PROPRIETARY AIRTIGHT TYPE.
- MECHANICAL CONTRACTOR TO SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, SUBS, ETC. WITH APPROPRIATE FIRE RATED MATERIALS TO MAINTAIN INTEGRITY OF FIRE RATING.
- "IN-CEILING" FAN COIL UNITS TO BE COMPLETE WITH FLEXIBLE CONNECTIONS, EMERGENCY DRIP TRAY & SPRING ISOLATORS.
- ALL MECHANICAL EQUIPMENT SHALL BE ACOUSTICALLY TREATED TO "RESONATE ACOUSTIC" SPECIFICATION REQUIREMENTS. PAINT COLOUR TO BE SELECTED BY THE ARCHITECT. SAMPLES TO BE SUBMITTED FOR APPROVAL.

HERITAGE REQUIREMENTS

- THE PROPOSED WORKS WILL BE LOCATED WITHIN A STATE SIGNIFICANT HERITAGE BUILDING.
- ALL AREAS OF THE BUILDING, ADJACENT TO HERITAGE FABRIC AND SURFACES ARE TO BE PROTECTED DURING WORKS IN ACCORDANCE WITH A HERITAGE CONSTRUCTION MANAGEMENT PLAN.
- THE WORKS ARE NOT TO INCLUDE ANY CHASING INTO HERITAGE WALLS OR FLOOR STRUCTURES. THE CUTTING OF HERITAGE WALLS FOR NEW FIRE DOORS IS AS DOCUMENTED. A HERITAGE CONSTRUCTION MANAGEMENT PLAN IS TO BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORKS.
- THE PROPOSED FIRE SERVICES SYSTEM SHOULD MAINTAIN THE REVERSIBILITY OF THE EXISTING SYSTEM SUCH THAT IT IS ABLE TO BE REMOVED WITHOUT DAMAGE TO ANY HERITAGE FABRIC. THE DRAWINGS AND OR SPECIFICATION SHOULD INCLUDE INFORMATION REGARDING THE REVERSIBILITY OF THE DESIGN.
-

GRILLE SCHEDULE				
wt	MAKE	MODEL	GRILLE TYPE	SIZE
DG1	HOLYOAKE	DG-52	FULL CHEVRON	450x150
DG2	HOLYOAKE	DG-52	FULL CHEVRON	450x300
E1	HOLYOAKE	EC-125	EGGCRATE	150x150
E2	HOLYOAKE	EC-125	EGGCRATE	200x200
E3	HOLYOAKE	EC-125	EGGCRATE	250x250
S1	HOLYOAKE	DDL20	DOUBLE DEFLECTION	AS NOTED ON DRAWING

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REV	DESCRIPTION	DRAWN	APP'D	DATE

 Property NSW	 TKDArchitects Tanner Kibble Denton
CUJENT	ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL USE 1-3 HICKSON ROAD, THE ROCKS	LEGEND, NOTES AND SCHEDULES
PROJECT	TITLE



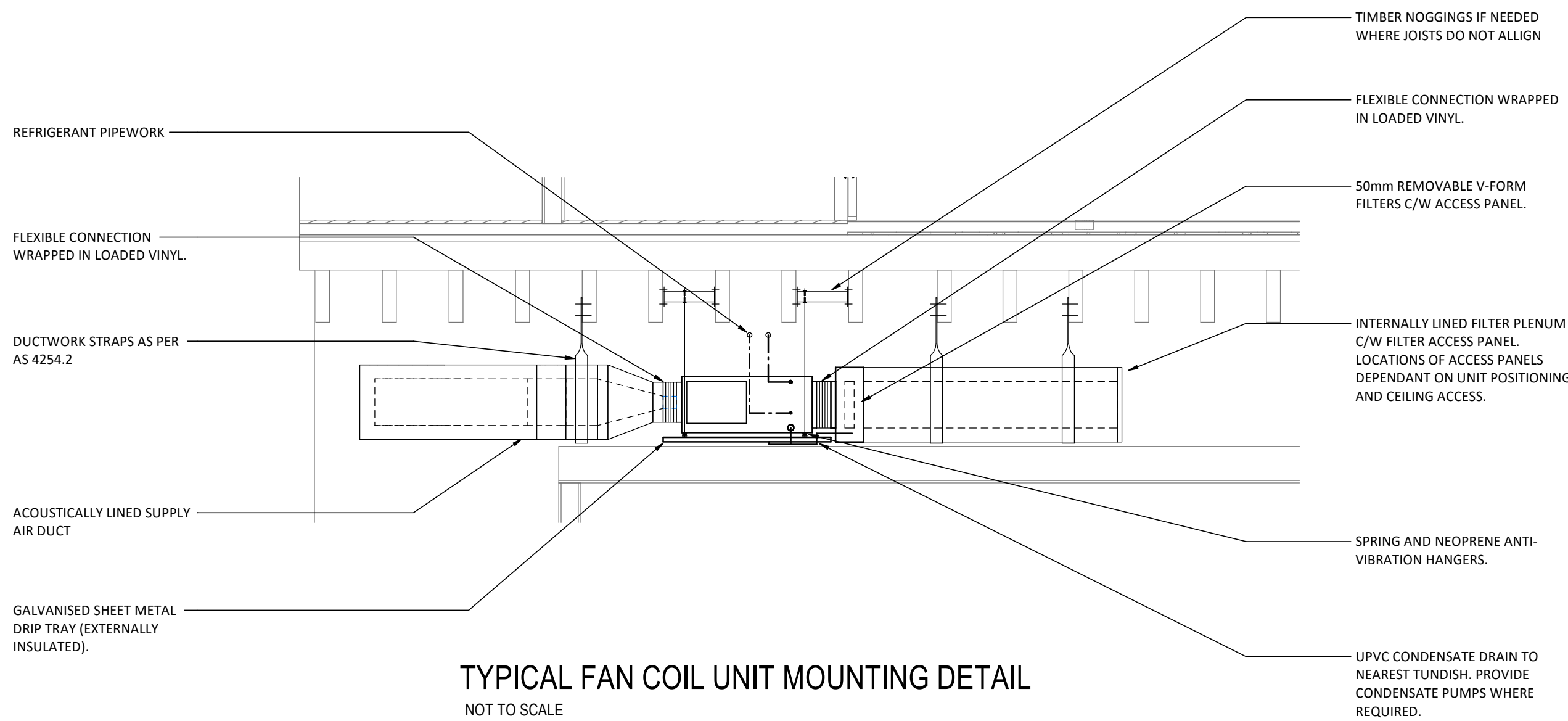
WOOD & GRIEVE ENGINEERS

TENDER

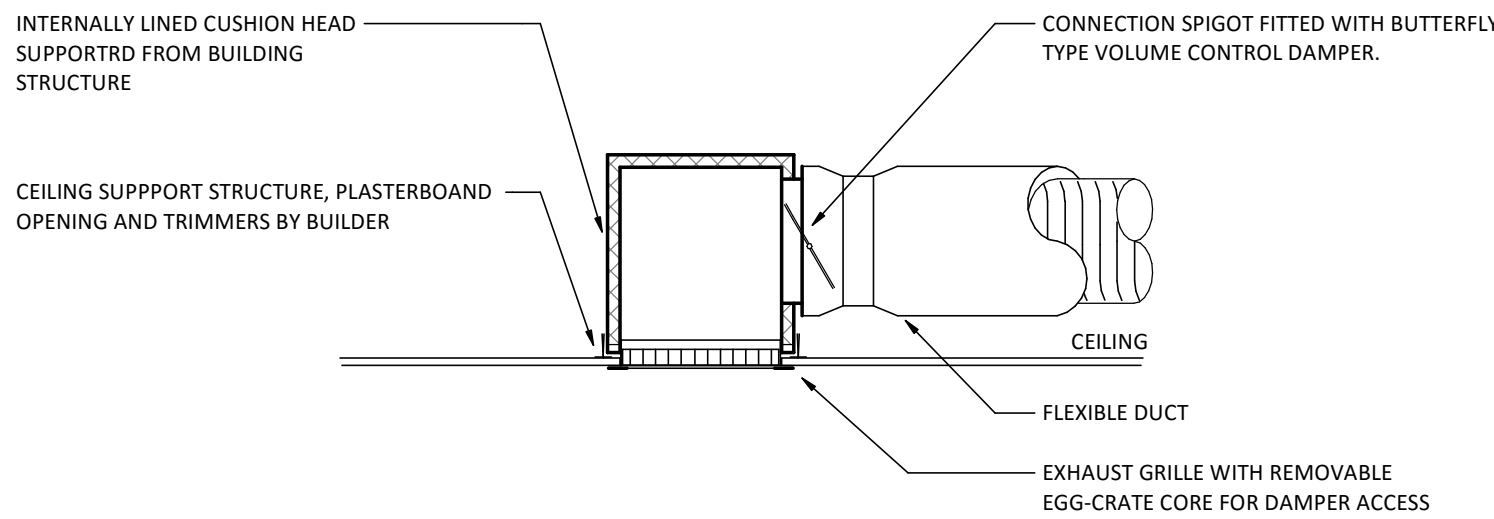
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MECHANICAL SERVICES

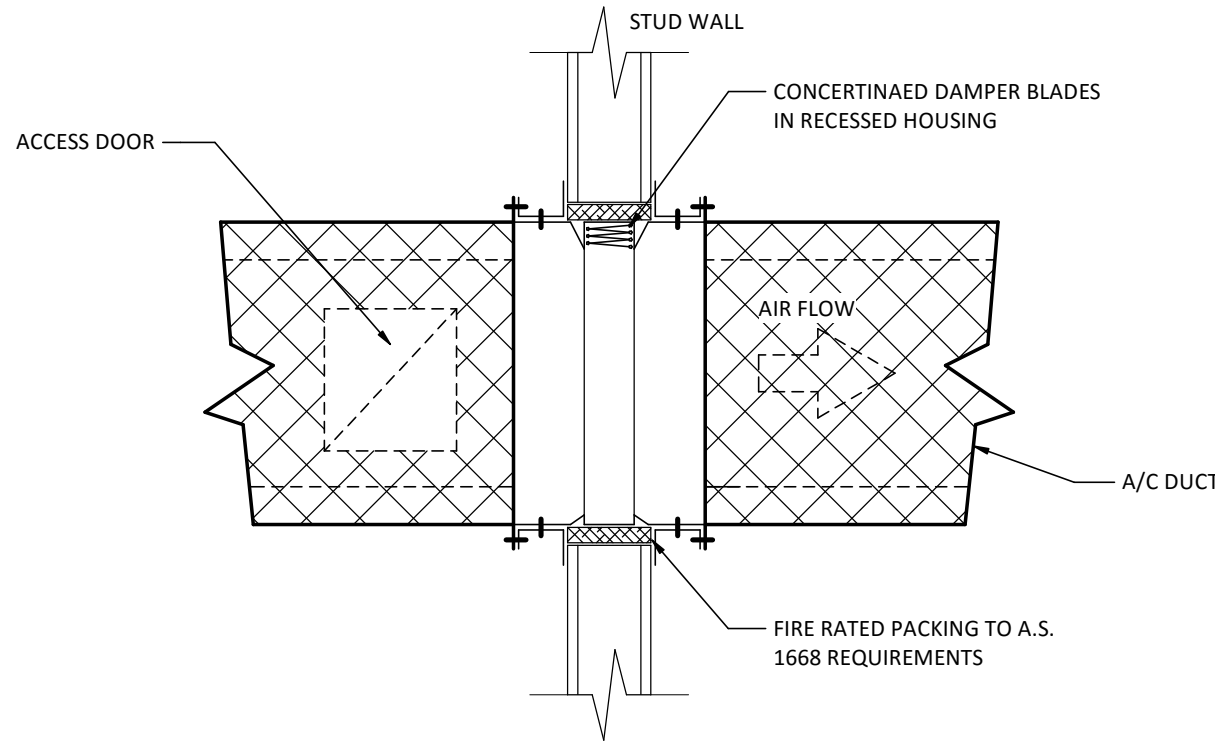
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SCALE @ A1	PROJECT No	DRAWING No	REV



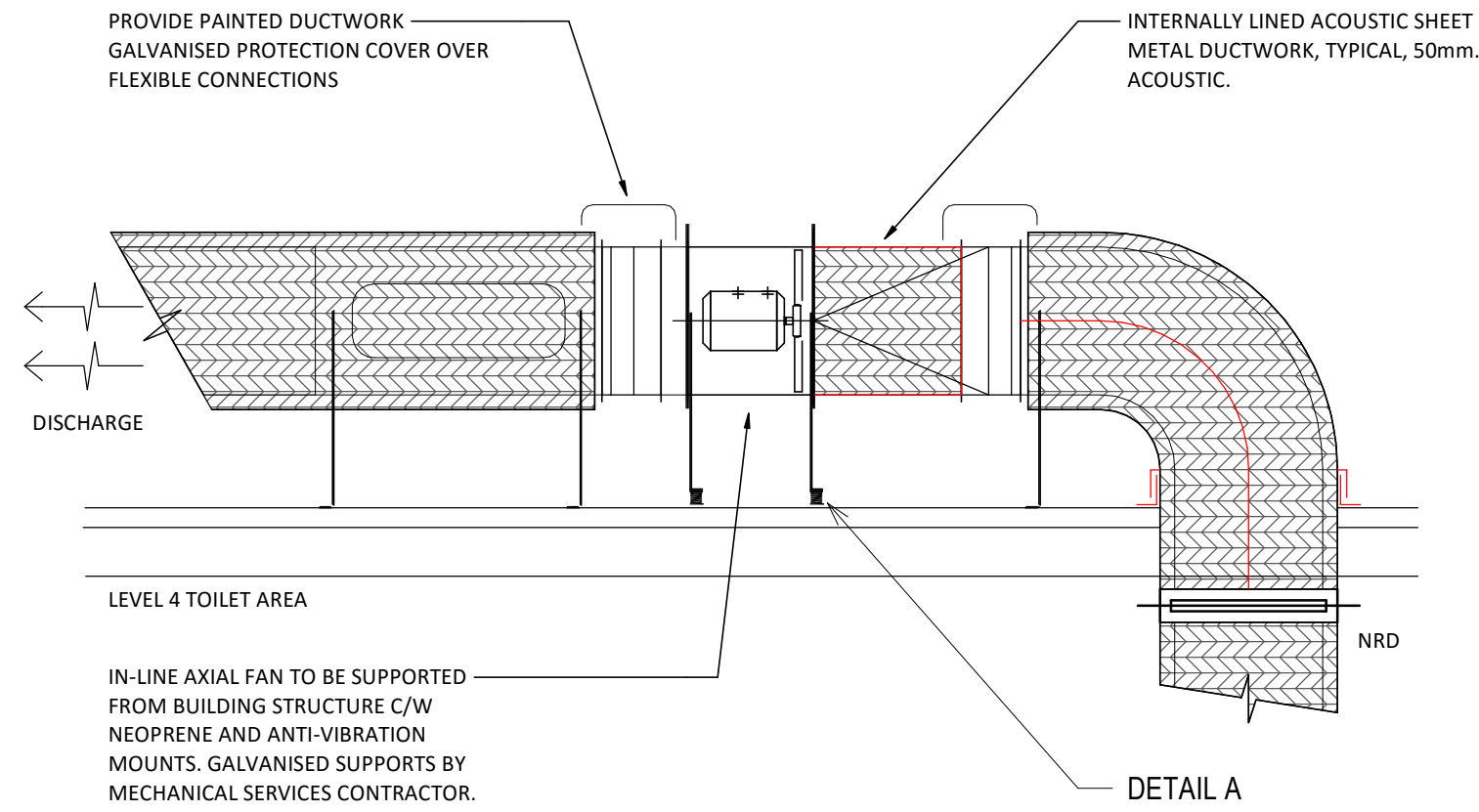
TYPICAL FAN COIL UNIT MOUNTING DETAIL
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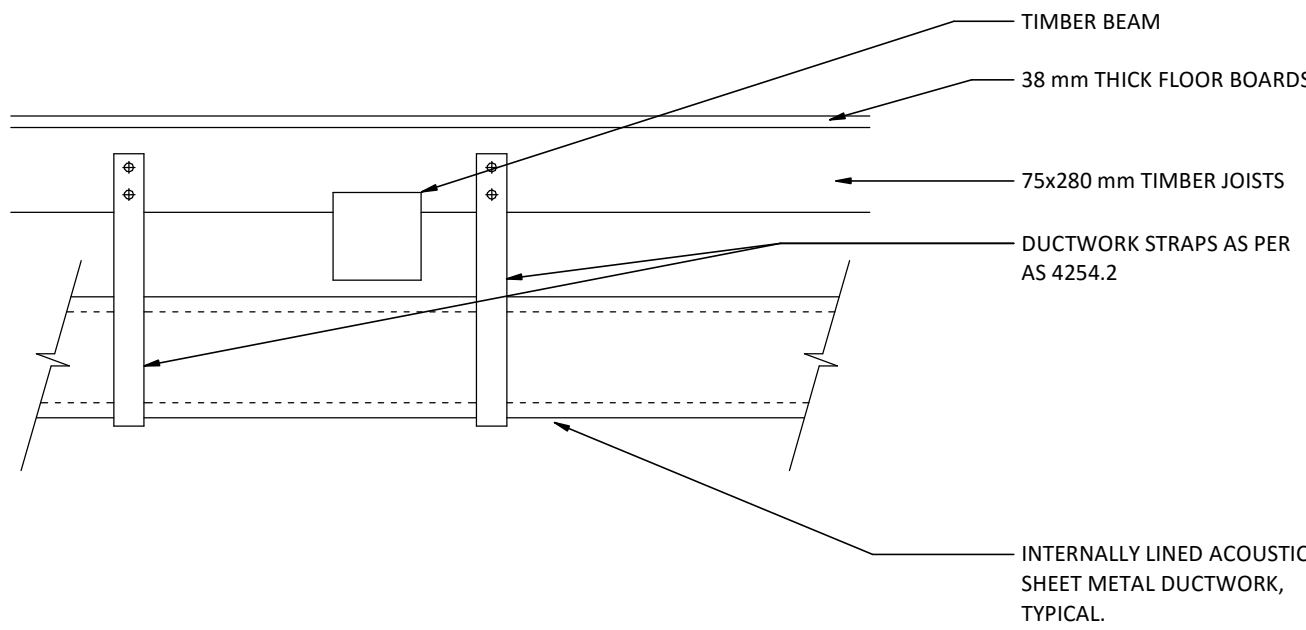
EXHAUST AIR GRILLE DETAIL
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FIRE DAMPER - CURTAIN IN WALL
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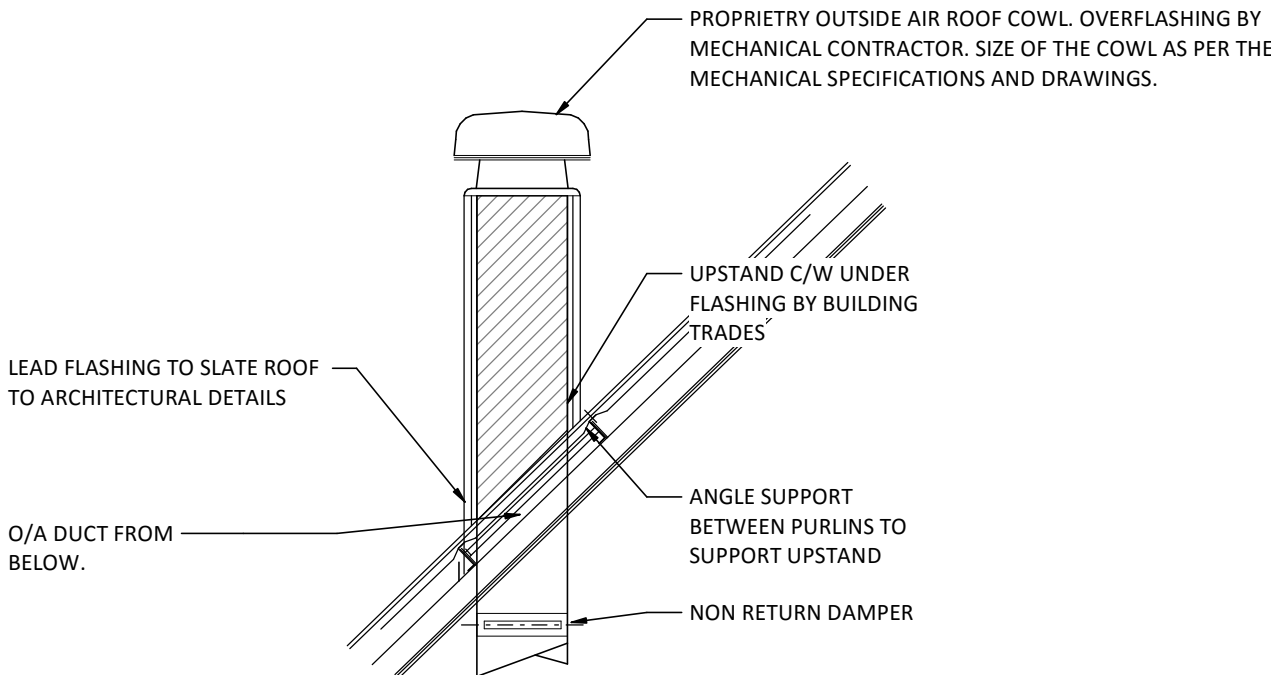


EXHAUST IN-LINE FAN ARRANGEMENT
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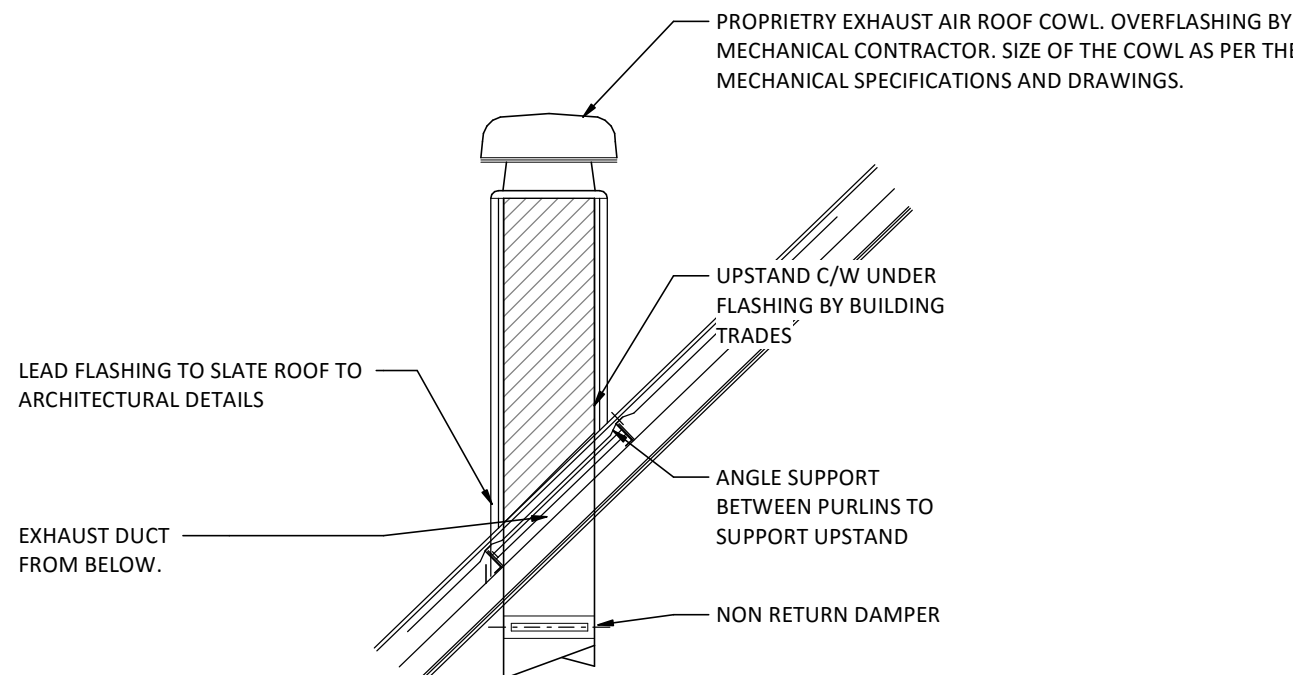
TYPICAL DUCT SUPPORT TO JOIST DETAIL
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NOTE: DETAIL OF DUCT SUPPORT OF THE HERITAGE TIMBER STRUCTURE TO BE SUBMITTED TO HERITAGE CONSULTANT/ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

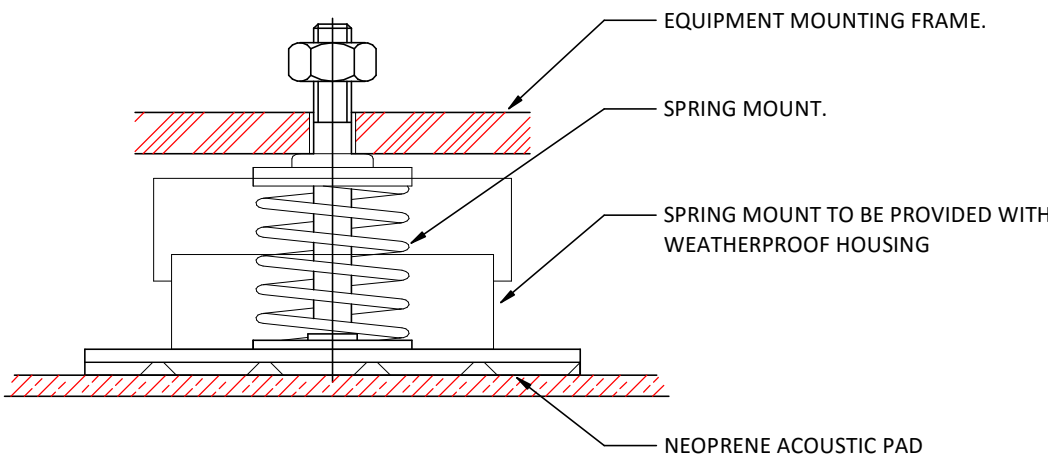


OUTSIDE AIR INLET COWL DETAIL
NOT TO SCALE

REFER TO ARCHITECTS DRAWINGS FOR SCREEN DETAIL.

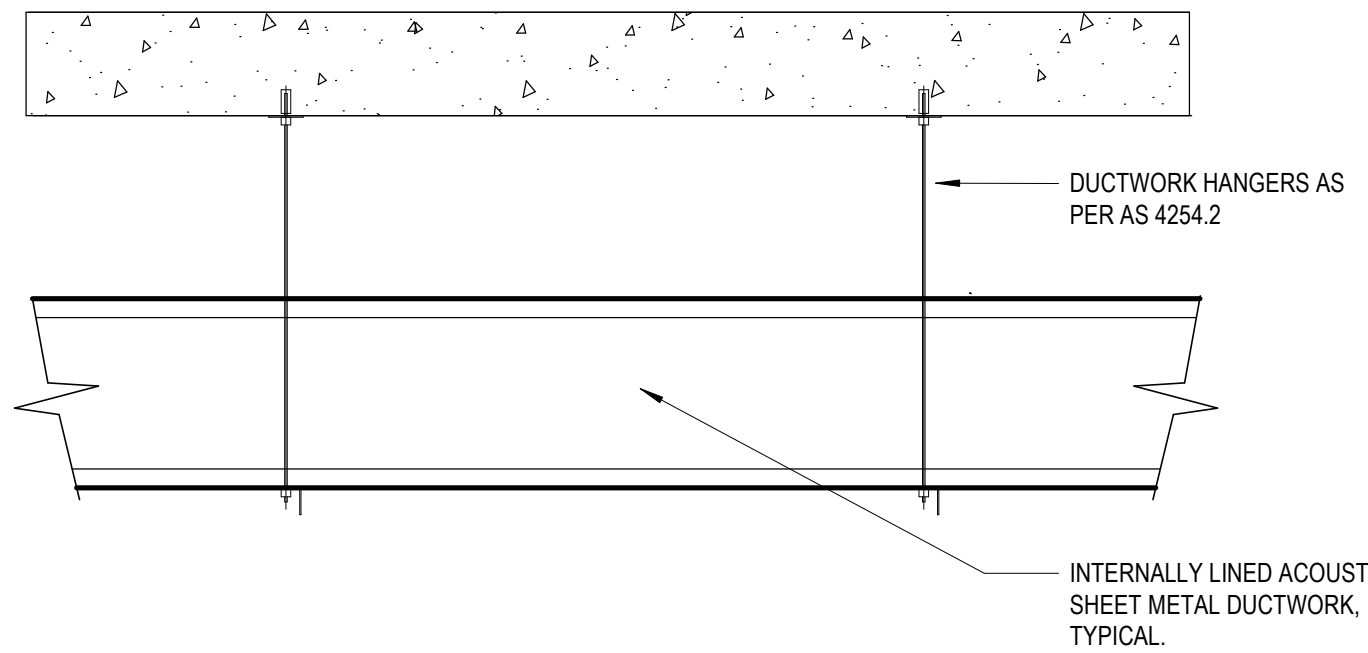


EXHAUST AIR COWL DETAIL
NOT TO SCALE



DETAIL - A
ANTI-VIBRATION SPRING DETAIL
NOT TO SCALE

(REFER TO TYPICAL FAN INSTALLATION MOUNTING DETAIL)



TYPICAL DUCT SUPPORT TO SLAB DETAIL
NOT TO SCALE

NOTE: DETAIL OF DUCT SUPPORT OF THE HERITAGE TIMBER STRUCTURE TO BE SUBMITTED TO HERITAGE CONSULTANT/ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION.

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05. THE PROPOSED MECHANICAL SERVICES SYSTEM SHOULD MAINTAIN THE REVERSIBILITY OF THE EXISTING SYSTEM SUCH THAT IT IS ABLE TO BE REMOVED WITHOUT DAMAGE TO ANY HERITAGE FABRIC. THE DRAWINGS AND OR SPECIFICATION SHOULD INCLUDE INFORMATION REGARDING THE REVERSIBILITY OF THE DESIGN.

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 Property NSW	 TKD Architects Tanner Kibble Denton
CLIENT	ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL USE 1-3 HICKSON ROAD, THE ROCKS	DETAILS SHEET
PROJECT	TITLE



WOOD & GRIEVE ENGINEERS

TENDER

NOT FOR CONSTRUCTION

MECHANICAL SERVICES

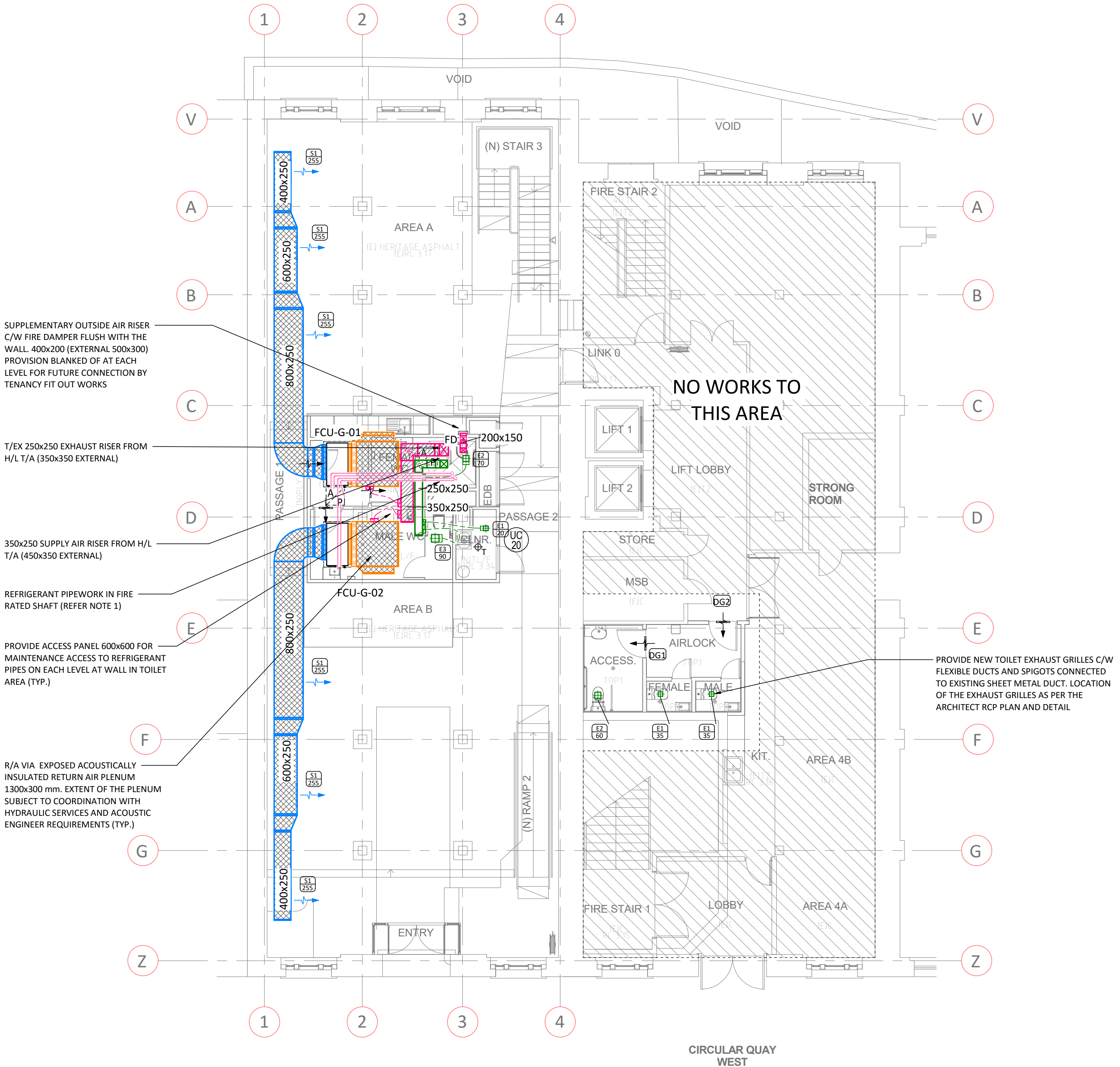
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SCALE @ A1	PROJECT No	DRAWING No	REV

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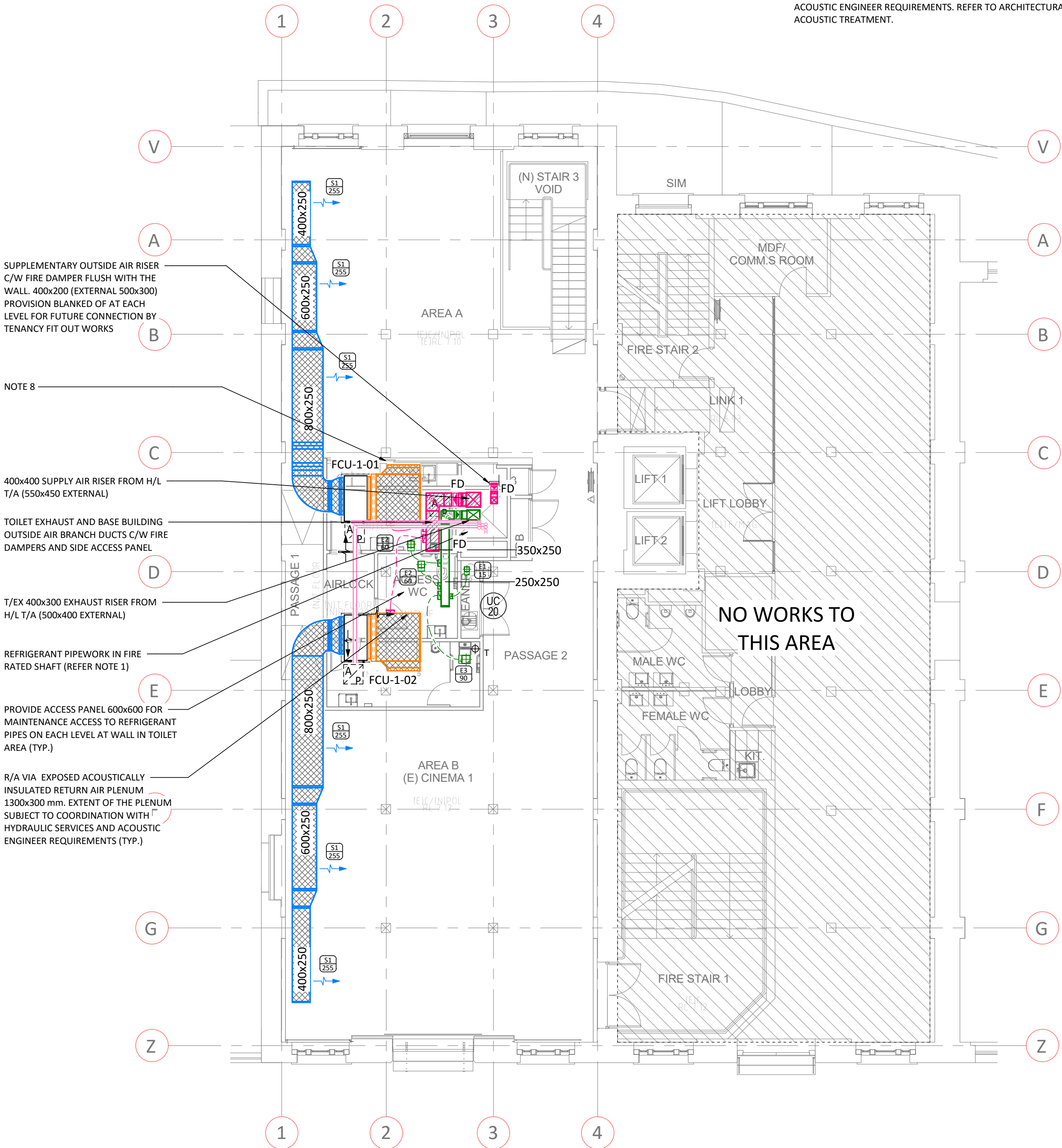
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NOTES:

01. PENETRATION OF REFRIGERANT PIPEWORK THROUGH FIRE RATED SHAFT TO BE SEALED WITH TRAFFIC 'FIRE CLAMP MAXI' OR EQUIVALENT.
02. PROVIDE ACCESS PANEL IN DUCT ADJACENT TO ALL SMOKE AND FIRE DAMPERS.
03. ALL INSULATION TO BE COMPLIANT WITH SECTION J AND AUSTRALIAN STANDARDS.
04. FINAL ACCESS PANEL LOCATIONS TO BE IDENTIFIED ON CONTRACTOR SHOP DRAWINGS.
05. ALL FCUs, INCLUDING ASSOCIATED MIXING BOXES TO BE LOCATED ABOVE THE TOILET AREA.
06. LINE THE FULL EXTENT OF THE CEILING OF THE AMENITIES AREA BELOW THE MECHANICAL PLANT WITH 50mm THICK 32.0kg/m² GLASSWOOL INSULATION BLANKET.
07. ALL MECHANICAL EQUIPMENT CONDENSATE TO DRAIN TO TUNDISH IN THE CLEANERS ROOM. TUNDISH PROVIDED BY HYDRAULIC SERVICES.
08. CEILING ABOVE THE KITCHENETTE AREA REQUIRED.
09. ACOUSTIC WRAPPING OF ALL FAN COIL UNITS TO BE PROVIDED IN ACCORDANCE TO ACOUSTIC ENGINEER REQUIREMENTS. REFER TO ARCHITECTURAL SPECIFICATION FOR ACOUSTIC TREATMENT.



GROUND FLOOR LAYOUT
SCALE - 1 : 100



LEVEL 1 LAYOUT
SCALE - 1 : 100

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Property
NSW



TKDArchitects
Tanner Kibble Denton

CUJENT

ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL USE 1-3 HICKSON ROAD, THE ROCKS	GROUND FLOOR & LEVEL 1 LAYOUT
PROJECT	TITLE



WOOD & GRIEVE ENGINEERS



1 : 100
SCALE @ A1

33307
PROJECT No

ME-2000
DRAWING No

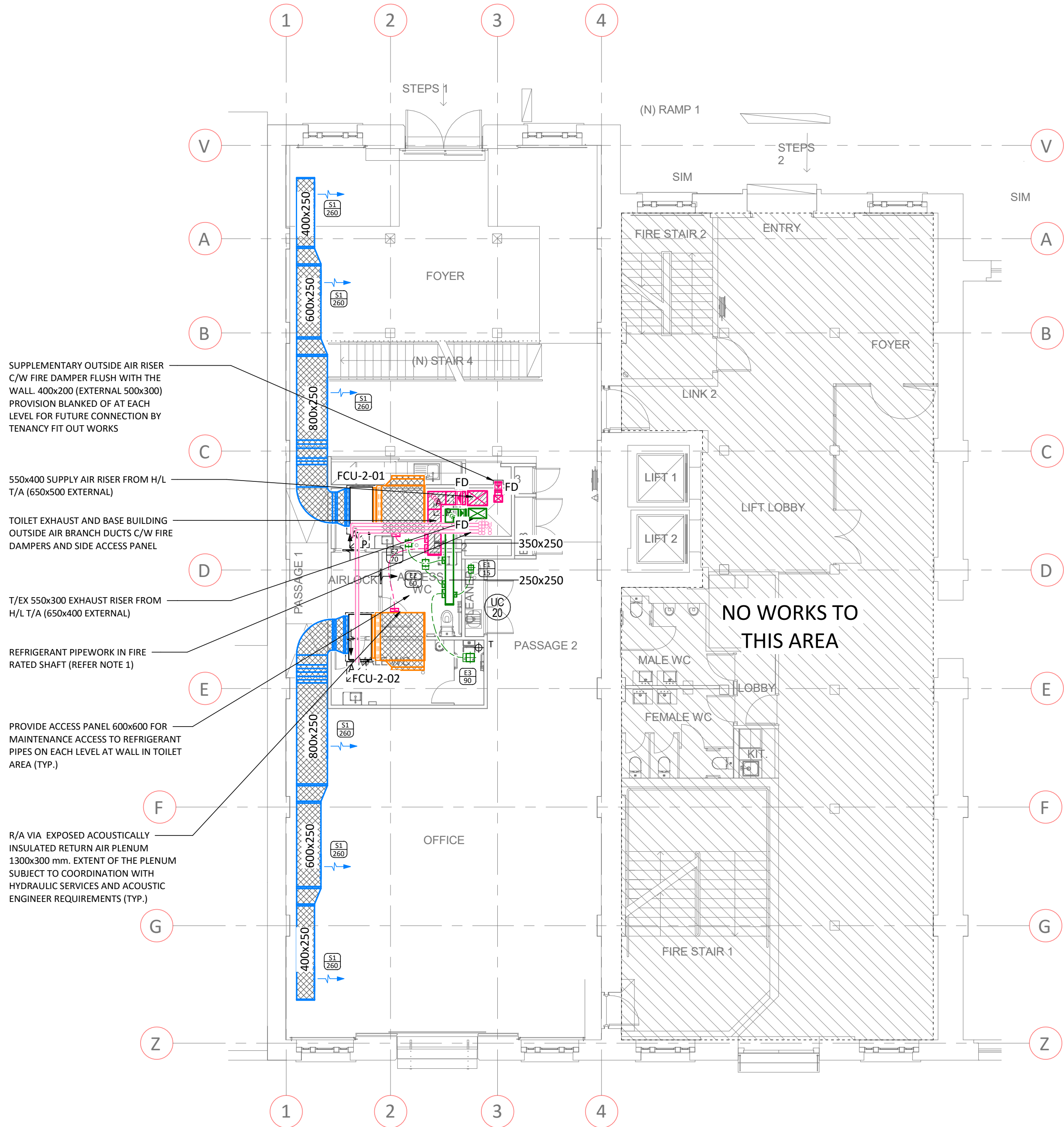
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HERITAGE REQUIREMENTS:

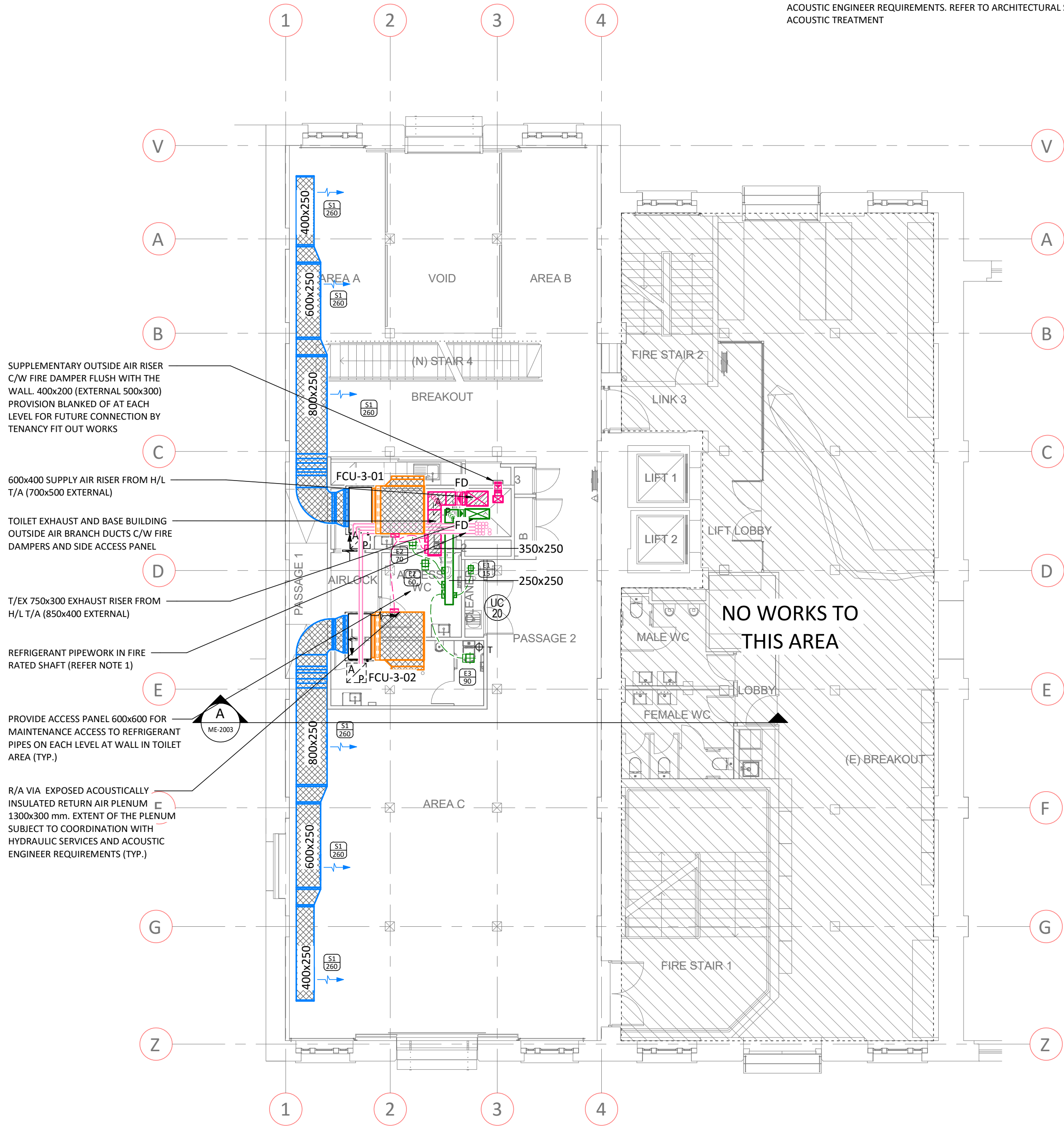
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LEVEL 2 LAYOUT
SCALE - 1:100



LEVEL 3 LAYOUT
SCALE - 1:100

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 Property NSW	 TKDArchitects Tanner Kibble Denton
CLIENT	ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL USE 1-3 HICKSON ROAD, THE ROCKS	LEVEL 2 & 3 LAYOUTS
PROJECT	TITLE

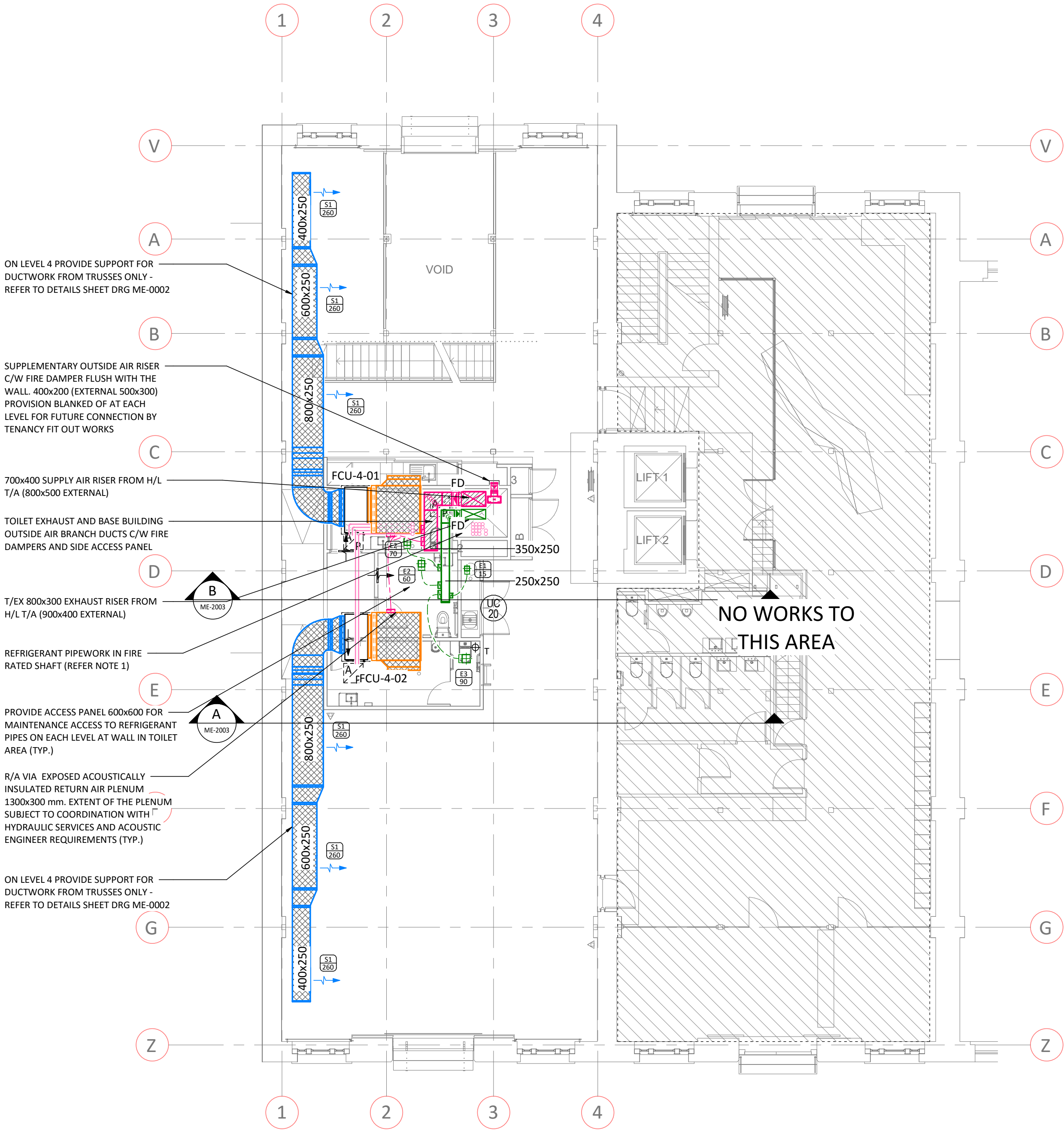
 WOOD & GRIEVE ENGINEERS		TENDER NOT FOR CONSTRUCTION MECHANICAL SERVICES
1:100 SCALE @ A1	33307 PROJECT No	ME-2001 DRAWING No
		E REV

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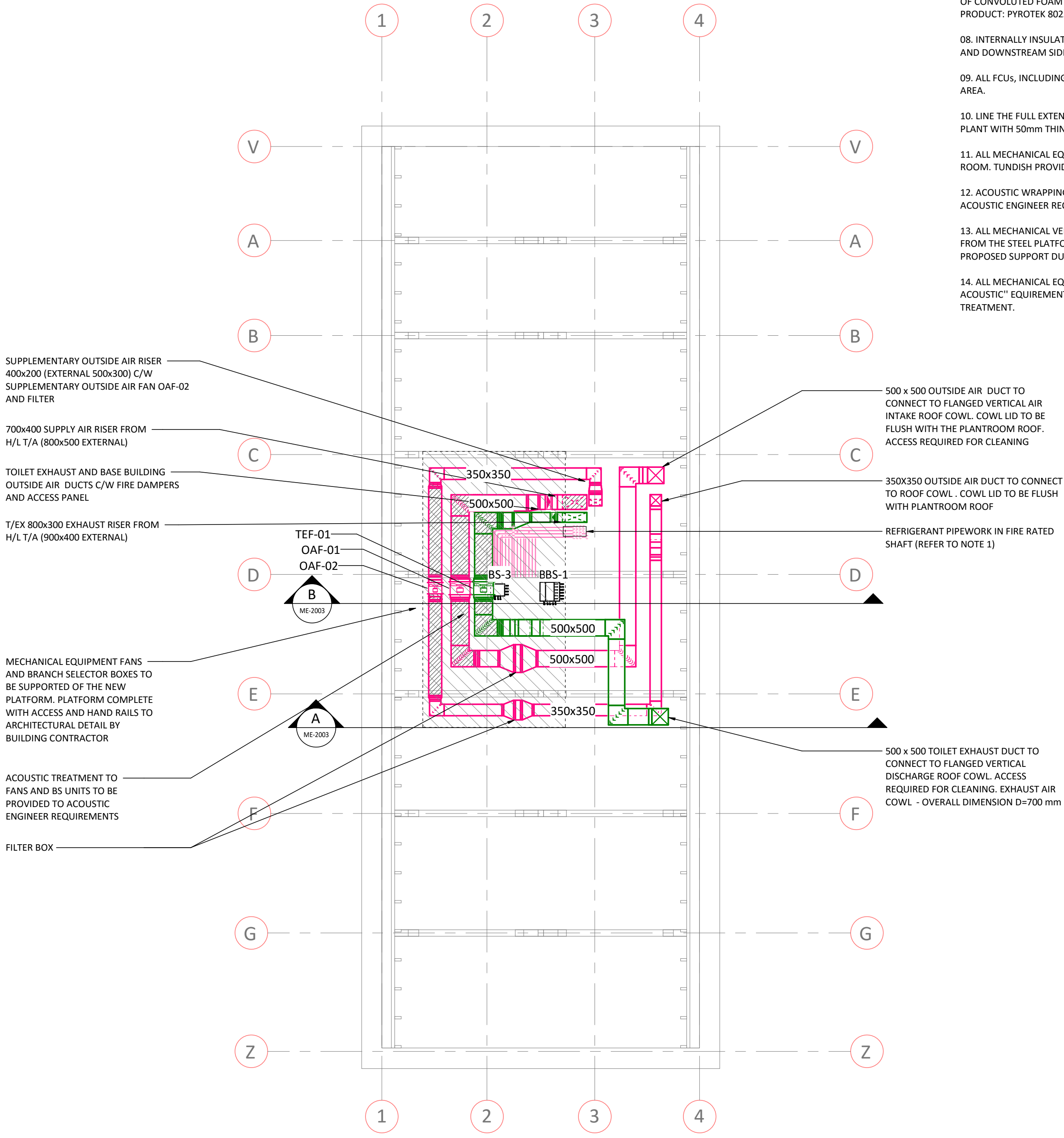
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03. ALL INSULATION TO BE COMPLIANT WITH SECTION J AND AUSTRALIAN STANDARDS 2107
04. FINAL ACCESS PANEL LOCATIONS TO BE IDENTIFIED ON CONTRACTOR SHOP DRAWINGS.
05. NO RAFTERS OR PURLINS ARE TO BE CUT DURING THE INSTALLATION OF THE ROOF LOUVRES. THE MECHANICAL CONTRACTOR IS TO CUT THE DUCTS AROUND THE TIMBER MEMBERS ON SITE, WRAPPING THE TIMBERS IN A METAL CASING AND IS TO ADEQUATELY SEAL AROUND THE DUCTS WITH A SUITABLE SEALANT PRODUCT.
06. ALL MECHANICAL EQUIPMENT CONDENSATE TO DRAIN TO TUNDISH IN THE CLEANERS ROOM. TUNDISH PROVIDED BY HYDRAULIC SERVICES.
07. PROVIDE EXTERNAL LAGGING TO ALL FANS AND EXPOSED DUCTWORK WHICH CONSISTS OF CONVOLUTED FOAM WRAPPED IN 8.0kg/m² LOADED VINYL MATERIAL (SUGGESTED PRODUCT: PYROTEK 8025C).
08. INTERNALLY INSULATE DUCTS FOR THE FIRST 4.0m OF DUCTWORK ON BOTH UPSTREAM AND DOWNSTREAM SIDES OF ALL FANS WHERE THE LENGTH PERMITS.
09. ALL FCUs, INCLUDING ASSOCIATED MIXING BOXES TO BE LOCATED ABOVE THE TOILET AREA.
10. LINE THE FULL EXTENT OF THE CEILING OF THE AMENITIES AREA BELOW THE MECHANICAL PLANT WITH 50mm THICK 32.0kg/m² GLASSWOOL INSULATION BLANKET.
11. ALL MECHANICAL EQUIPMENT CONDENSATE TO DRAIN TO TUNDISH IN THE CLEANERS ROOM. TUNDISH PROVIDED BY HYDRAULIC SERVICES.
12. ACOUSTIC WRAPPING OF ALL FAN COIL UNITS TO BE PROVIDED IN ACCORDANCE TO ACOUSTIC ENGINEER REQUIREMENT
13. ALL MECHANICAL VENTILATION FANS AND ASSOCIATED DUCTWORK TO BE SUPPORTED FROM THE STEEL PLATFORM FIXED TO BUILDING TRUSSES. WHERE PLATFORM IS NOT PROPOSED SUPPORT DUCTWORK FROM THE TRUSSES DIRECTLY.
14. ALL MECHANICAL EQUIPMENT SHALL BE ACOUSTICALLY TREATED TO "RESONATE ACOUSTIC" REQUIREMENTS. REFER TO ARCHITECTURAL SPECIFICATION FOR ACOUSTIC TREATMENT.



LEVEL 4 LAYOUT

SCALE - 1 : 100



ROOF SPACE LAYOUT

SCALE - 1 : 100

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FAILURE TO DO SO MAY RESULT IN LOSS OF INFORMATION
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E	TENDER ISSUE	NDOU	SIM	23.02.18
D	PRELIMINARY	NDOU	SIM	02.02.18
C	PRELIMINARY	NDOU	SIM	16.01.18
B	PRELIMINARY	NDOU	SIM	21.12.17
A	PRELIMINARY	NDOU	SIM	14.12.17
REV	DESCRIPTION	DRAWN	APP'D	DATE

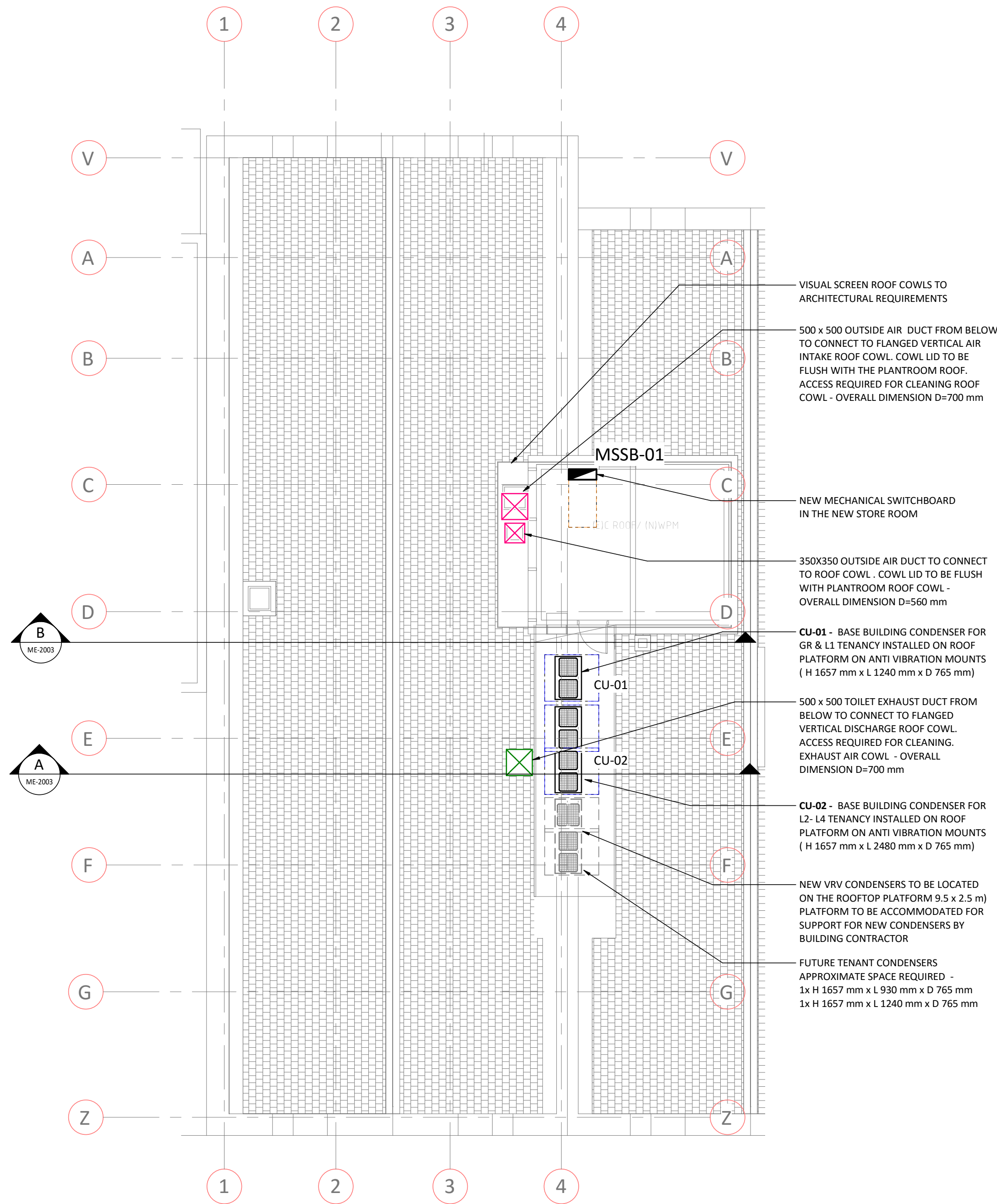
 Property NSW	 TKD Architects Tanner Kibble Denton
CUJENT	ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL USE 1-3 HICKSON ROAD, THE ROCKS	LEVEL 4 AND ROOF LAYOUTS
PROJECT	TITLE

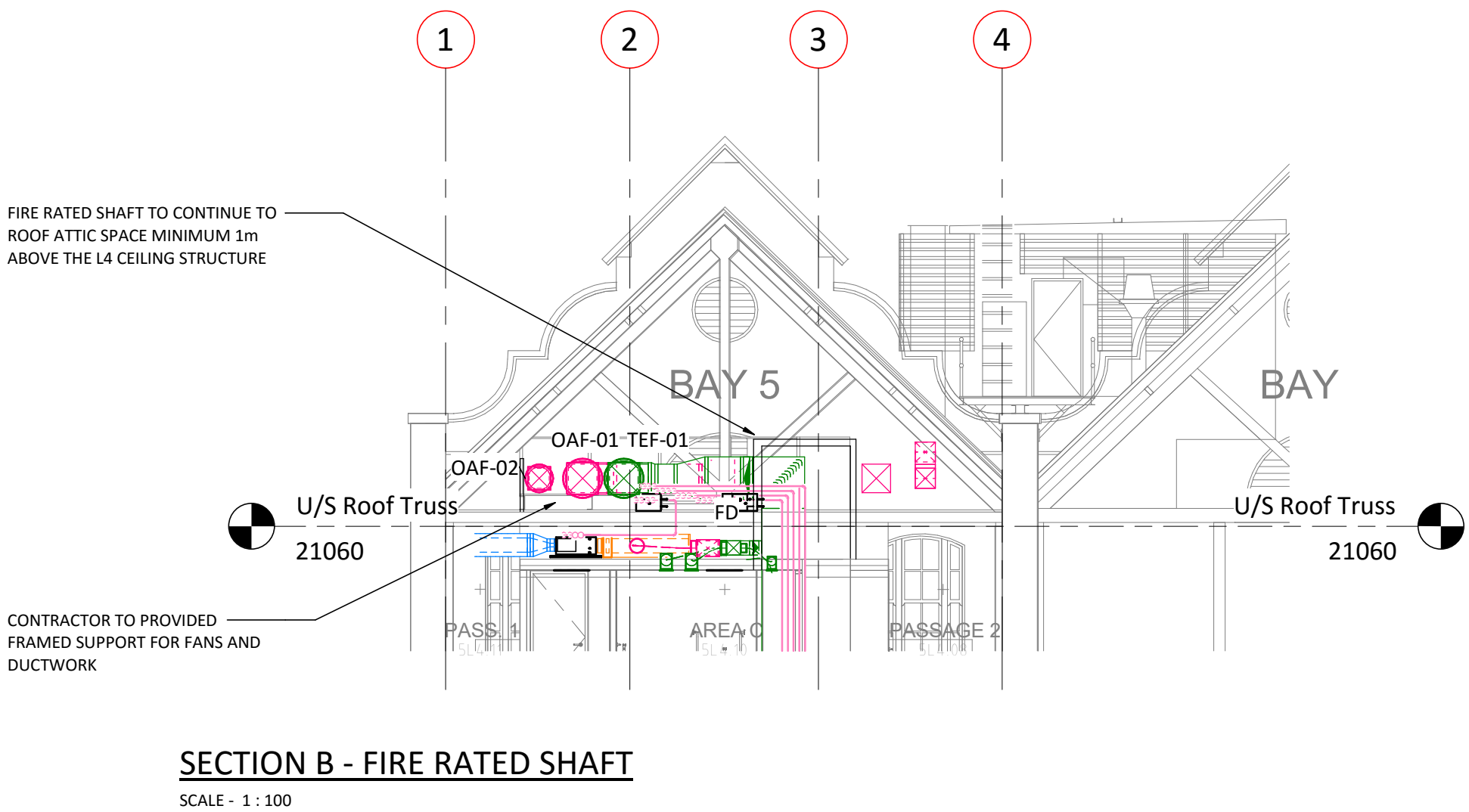
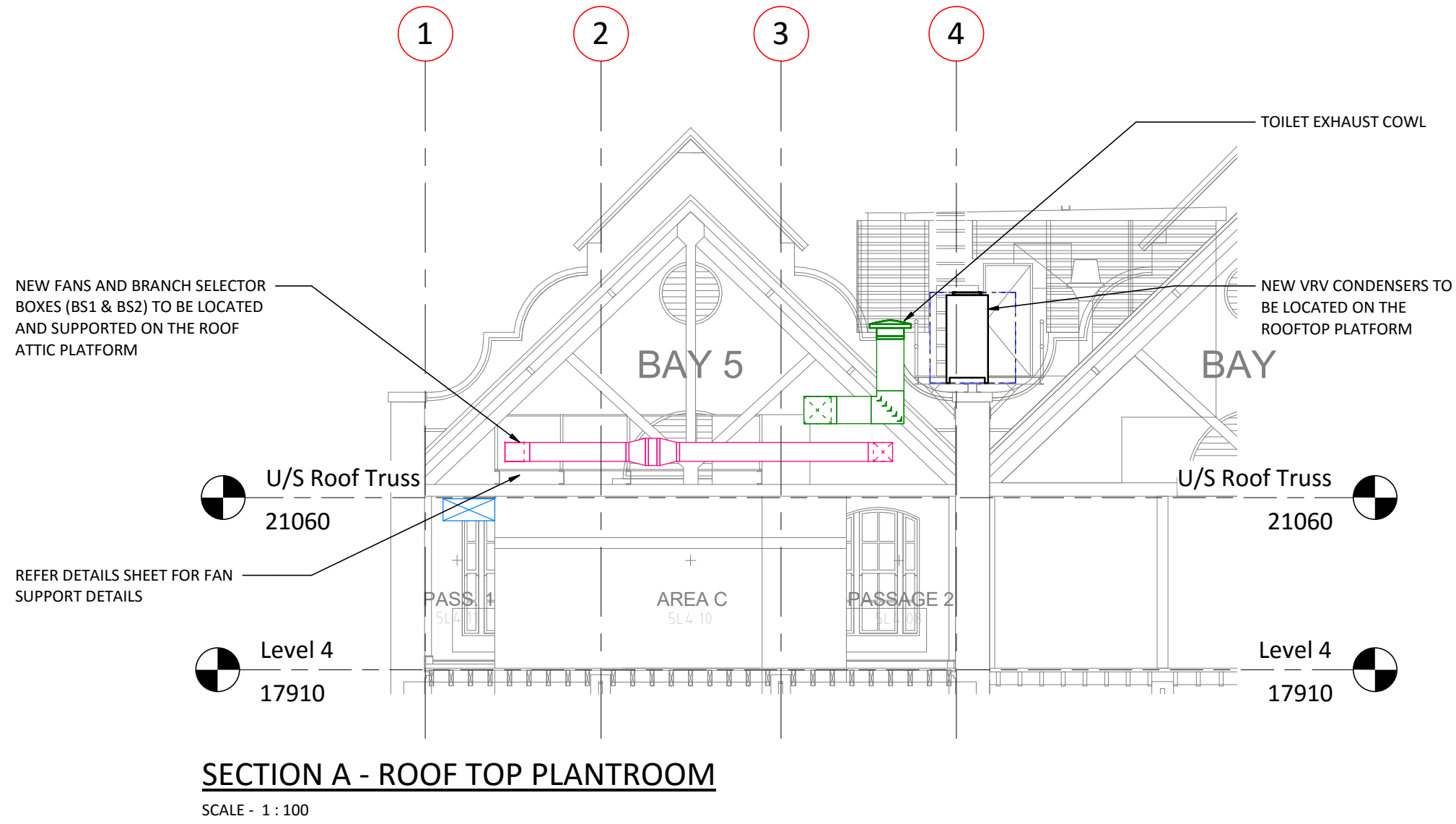
 WOOD & GRIEVE ENGINEERS		TENDER NOT FOR CONSTRUCTION MECHANICAL SERVICES
1 : 100	33307	ME-2002
SCALE @ A1	PROJECT No	DRAWING No
		REV

HERITAGE REQUIREMENTS:

01. THE PROPOSED WORKS WILL BE LOCATED WITHIN A STATE SIGNIFICANT HERITAGE BUILDING.
02. ALL AREAS OF THE BUILDING, ADJACENT TO HERITAGE FABRIC AND SURFACES ARE TO BE PROTECTED DURING WORKS IN ACCORDANCE WITH A HERITAGE CONSTRUCTION MANAGEMENT PLAN.
03. THE WORKS ARE NOT TO INCLUDE ANY CHASING INTO HERITAGE WALLS OR FLOOR STRUCTURES. THE CUTTING OF HERITAGE WALLS FOR NEW FIRE DOORS IS AS DOCUMENTED.
04. A HERITAGE CONSTRUCTION MANAGEMENT PLAN IS TO BE SUBMITTED FOR APPROVAL PRIOR TO COMMENCEMENT OF THE WORKS.
05. THE PROPOSED MECHANICAL SERVICES SYSTEM SHOULD MAINTAIN THE REVERSIBILITY OF THE EXISTING SYSTEM SUCH THAT IT IS ABLE TO BE REMOVED WITHOUT DAMAGE TO ANY HERITAGE FABRIC. THE DRAWINGS AND OR SPECIFICATION SHOULD INCLUDE INFORMATION REGARDING THE REVERSIBILITY OF THE DESIGN.



ROOF LAYOUT
SCALE - 1 : 100



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Property
NSW



TKDArchitects
Tanner Kibble Denton

CLIENT

ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL ROOF LAYOUT
USE
1-3 HICKSON ROAD, THE ROCKS

PROJECT

TITLE



WOOD & GRIEVE ENGINEERS



TENDER
NOT FOR CONSTRUCTION
MECHANICAL SERVICES

1 : 100

33307

ME-2003

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SCALE @ A1

PROJECT No

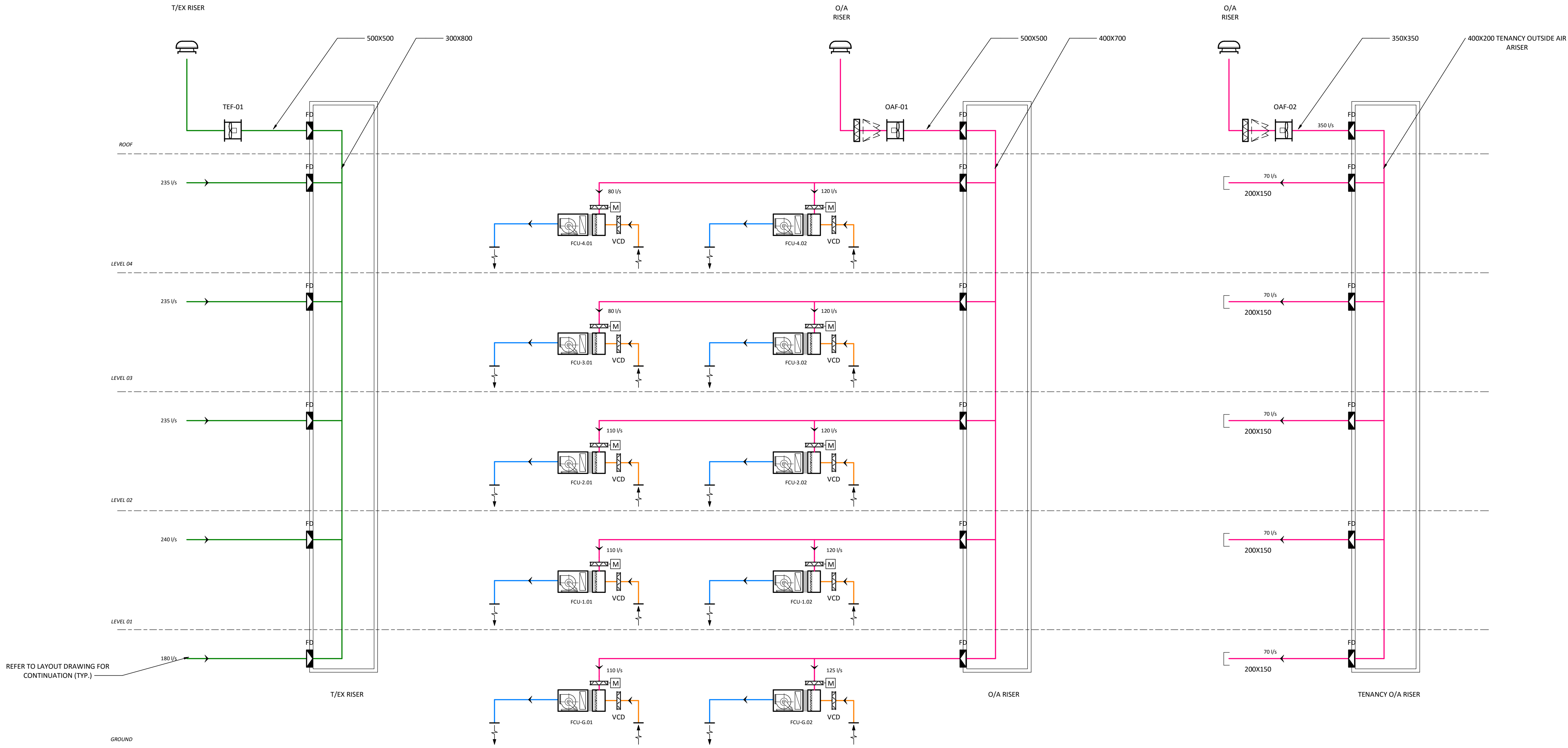
DRAWING No

REV

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Property
NSW



TKDArchitects
Tanner Kibble Denton

CLIENT

ARCHITECT

ASN CO. BAY 4-5 COMMERCIAL
USE
1-3 HICKSON ROAD, THE ROCKS

AIR SCHEMATIC

PROJECT

TITLE



WOOD & GRIEVE ENGINEERS

TENDER
NOT FOR CONSTRUCTION
MECHANICAL SERVICES

1 : 100	33307	ME-9000	E
SCALE @ A1	PROJECT No	DRAWING No	REV