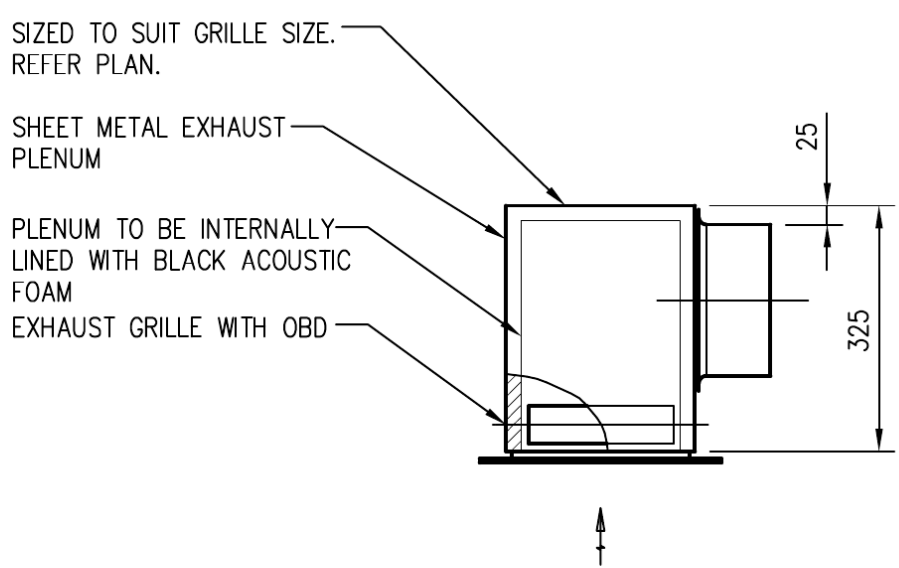


OVEREND STREET

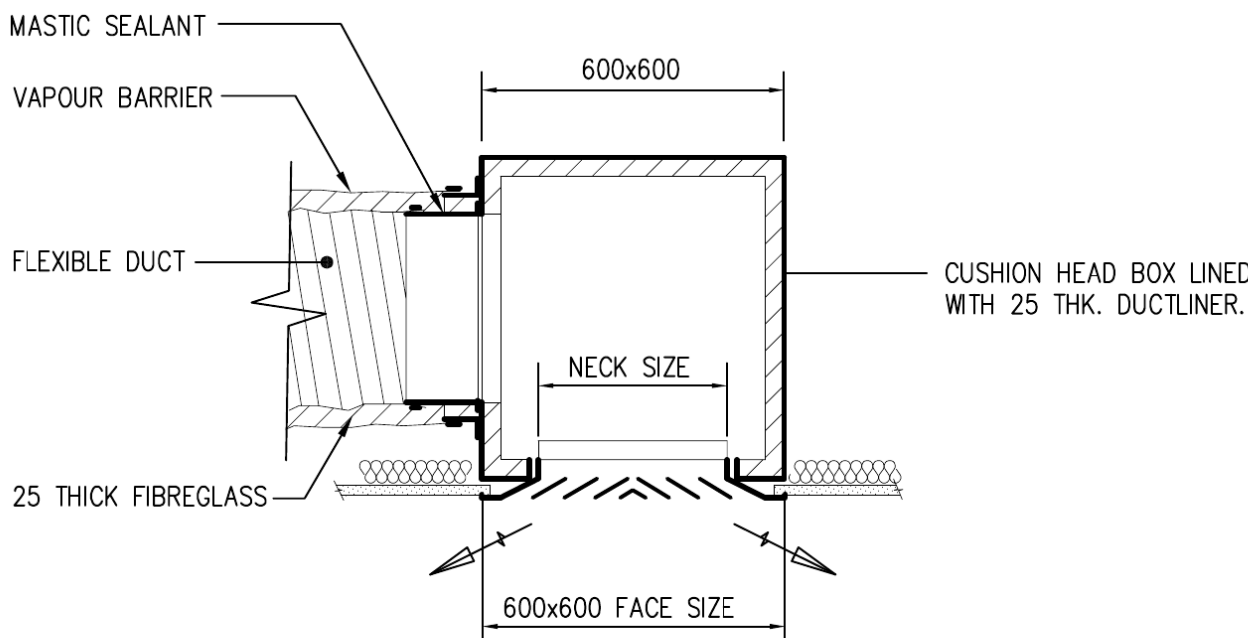
SITE PLAN

SCALE 1:200



EXHAUST PLENUM DETAIL

SCALE 1:10



DIFFUSER/CUSHION HEAD BOX DETAIL

SCALE NTS

DRAWING SCHEDULE

M100	SITE PLAN, LEGEND, NOTES AND SCHEDULES
M101	BASEMENT 2 VENTILATION LAYOUT
M102	BASEMENT 1 VENTILATION LAYOUT
M103	GROUND FLOOR AIR CONDITIONING AND VENTILATION LAYOUT
M104	LEVEL 2 AIR CONDITIONING AND VENTILATION LAYOUT
M105	LEVELS 3, 4, 5 & 6 AIR CONDITIONING AND VENTILATION LAYOUT
M106	LEVELS 7 & 8 AIR CONDITIONING AND VENTILATION LAYOUT
M107	LEVEL 9 AIR CONDITIONING AND VENTILATION LAYOUT
M108	ROOF AIR CONDITIONING AND VENTILATION LAYOUT
M201	EQUIPMENT SCHEDULES

FLEXIBLE DUCT SCHEDULE	
AIRFLOW (L/s)	DIA. FLEX
0 - 50	150
51 - 100	200
101 - 180	250
181 - 250	300
251 - 350	350
351 - 450	400
451 - 525	450

NOTE: WHERE FLEXIBLE DUCT DIAMETER EXCEEDS DUCT HEIGHT, OVAL CONNECTORS ARE TO BE USED.

DIFFUSER SCHEDULE	
AIRFLOW (L/s)	NECK SIZE
0 - 55	150x150
56 - 125	225x225
126 - 225	300x300
226 - 300	375x375
301 - 405	450x450
406 - 500	525x525

MECHANICAL LEGEND OF SYMBOLS

	SHEETMETAL DUCTWORK INTERNALLY LINED WITH A FOIL FACED DUCT LINER, R1.2 WITHIN A CONDITIONED SPACE, R2.0 IN ALL OTHER INTERNAL LOCATIONS, R3.0 WHERE EXPOSED TO DIRECT SUNLIGHT.
	SHEETMETAL DUCTWORK LINED WITH EXTERNAL INSULATION AND VAPOUR BARRIER, R1.2 WITHIN A CONDITIONED SPACE, R2.0 IN ALL OTHER INTERNAL LOCATIONS.
	SHEETMETAL DUCTWORK WITH 50mm INTERNAL AND 50mm EXTERNAL INSULATION.
	UNINSULATED SHEETMETAL DUCTWORK.
	FIRE RATED DUCTWORK.
	UNINSULATED CIRCULAR SHEETMETAL DUCTWORK.
	CIRCULAR DUCTWORK INTERNALLY LINED WITH A FOIL FACED DUCT LINER, R1.2 WITHIN A CONDITIONED SPACE, R2.0 IN ALL OTHER INTERNAL LOCATIONS, R3.0 WHERE EXPOSED TO DIRECT SUNLIGHT.
	CIRCULAR DUCTWORK LINED WITH INSULATION AND VAPOUR BARRIER, R1.2 WITHIN A CONDITIONED SPACE, R2.0 IN ALL OTHER INTERNAL LOCATIONS.
	CIRCULAR FLEXIBLE DUCTWORK, R1.0 FIBREGLASS INSULATION FOR LENGTHS LESS 3m, R2.0 ALL OTHER LOCATIONS.
	600 x 600 FACE VARIABLE AIR VOLUME SAD. 200 L/s MAX AIR QUANTITY.
	600 x 600 FACE SUPPLY AIR DIFFUSER 200 L/s AIR QUANTITY.
	AS ABOVE, BUT WITH 3 WAY BLOW.
	600 x 600 EGG CRATE RETURN AIR GRILLE 400 L/s AIR QUANTITY.
	1200 x 600 EGG CRATE RETURN AIR GRILLE 800 L/s AIR QUANTITY.
	200 x 200 EGG CRATE EXHAUST GRILLE 25 L/s AIR QUANTITY.
	SIDE OF DUCT MOUNTED EXHAUST GRILLE 250 L/s AIR QUANTITY.
	WEATHER PROOF LOUVRE. SIZE AND FLOW AS SHOWN
	350 x 150 SIDEWALL SUPPLY GRILLE 140 L/s AIR QUANTITY.
	650 x 150 SIDEWALL SUPPLY GRILLE 280 L/s AIR QUANTITY.
	900 x 150 SIDEWALL SUPPLY GRILLE 350 L/s AIR QUANTITY.
	DOOR GRILLE 0.1m² FACE AREA.
	UNDERCUT DOOR BY BUILDER.
	CIRCULAR SPIGOT WITH BALANCING DAMPER.
	VOLUME CONTROL DAMPER
	MOTORISED VOLUME CONTROL DAMPER.
	FIRE DAMPER.
	600 x 600 CEILING ACCESS PANEL.
	SINGLE PHASE POWER SUPPLY BY BUILDER.
	3 PHASE POWER SUPPLY BY BUILDER.
	MECHANICAL SERVICES SWITCHBOARD.
	TEMPERATURE SENSOR MOUNTED AT 1500 AFFL UNO.
	CARBON MONOXIDE SENSOR MOUNTED BETWEEN 750-1800 AFFL UNO.
	CARBON DIOXIDE SENSOR
	CONTROL STATION.
	TUNDISH BY BUILDER.

ABBREVIATIONS

AHU-1	AIR HANDLING UNIT No. 1
CU-2	CONDENSING UNIT No. 2
EF-3	EXHAUST FAN No. 3
FCU-4	FAN COIL UNIT No. 4
KEF-5	KITCHEN EXHAUST FAN No. 5
SF-6	SUPPLY FAN No. 6
SEF-7	SMOKE EXHAUST FAN No. 7
TEF-8	TOILET EXHAUST FAN No. 8
SA	SUPPLY AIR.
OA	OUTSIDE AIR.
RA	RETURN AIR.
EA	EXHAUST AIR.
TE	TOILET EXHAUST.
MSSB	MECHANICAL SERVICES SWITCHBOARD

NOTES

- DRAWINGS TO BE READ IN CONJUNCTION WITH MECHANICAL SERVICES SPECIFICATION.
- THE SUB CONTRACTOR SHALL CHECK ALL DIMENSIONS ON ARCHITECTURAL DRAWINGS BEFORE COMMENCING WORKS.
- DUCT SIZES SHOWN ARE CLEAR AIRWAY SIZES.
- ALL EXTERNAL PIPEWORK, CONDENSATE DRAINS AND ELECTRICAL WIRING TO BE CONCEALED.
- ACCESS PANEL LOCATIONS TO BE FINALISED BY MECHANICAL CONTRACTOR.
- TUNDISHES HAVE BEEN SHOWN ON DRAWINGS FOR HYDRAULIC SERVICES INFORMATION ONLY. CONDENSATE DRAINS ARE TO COORDINATED WITH TUNDISH LOCATION PROVIDED.
- RETAIL LAYOUT ARE BASE BUILDING ONLY. ALLOW TO SUSPEND ALL GRILLES & FLEXIBLE DUCTS FROM STRUCTURE OVER.
- APARTMENT KITCHEN CEILINGS TO BE CONSTRUCTED AS AN AIR TIGHT RETURN AIR PLENUM BY BUILDER.
- APARTMENT EXHAUST TO BE 350x75 LOW PROFILE PVC DUCTING SIMILAR TO DUCTECH SPACESAVER DUCT SYSTEM.
- MAINTAIN FIRE RATED SEPARATION BETWEEN FIRE COMPARTMENTS WHERE REFRIGERANT PASS THROUGH WALLS AND FLOORS WITH A REQUIRED FRL.

1	23/09/16	CONSTRUCTION ISSUE	DH	RR
0	15/02/16	TENDER ISSUE	DH	RR

REV.	DATE	DESCRIPTION	DRN	CHKD
------	------	-------------	-----	------



CONSULTANTS	
	CONSULTING ENGINEERS : MECHANICAL ELECTRICAL FIRE LIFTS HYDRAULICS LEVEL 1, 20 CAMBRIDGE ST. (PO BOX 288) COORPAROO QUEENSLAND 4151 Tel: (617)3240 3200 Fax: (617)3240 3299 Email : bca@bcaconsultants.com.au ACN No. 070 353 249

PROJECT
**45 WELLINGTON ROAD
EAST BRISBANE**

DRAWING
**MECHANICAL SERVICES
SITE PLAN, LEGEND, NOTES
AND SCHEDULES**

	CHECKED RR	DRG SCALE 1:200
	DESIGNED DH	SHEET SIZE A1
PROJECT No. 7103	DATE 17/09/2015	No IN SET 1 of 10
JOB No. 7103	DRAWING No. M100	FILE NAME 7103-M100.dwg
	REV.	
	1	

This drawing is copyright and must not be retained, copied or used without the authority of BCA CONSULTANTS. This drawing should be read in conjunction with all relevant contracts, specifications and drawings.

ISSUED FOR CONSTRUCTION