THE WILLCOX APARTMENTS
117 PROSPECT ROAD, PROSPECT
MECHANICAL SERVICES

LEGEND OF SYMBOLS

DUCTING

RECTANGULAR DUCT COMPLETE WITH DUCT TAG

AIRSIDE DIMENSION. VIEWED SURFACE SHOWN AS FIRST DIMENSION

DUCT CONSTRUCTION TYPE.

DUCT AIR STREAM TYPE.

01	UNLINED/UNINSULATED DUCTWORK
02	INTERNALLY LINED DUCTWORK (ACOUSTIC) - R0.8 (MAX 25mm)
03	INTERNALLY LINED DUCTWORK (ACOUSTIC) - R1.2 (MAX 40mm)
04	INTERNALLY LINED DUCTWORK (ACOUSTIC) - R2.0 (MAX 75mm)
05	INTERNALLY LINED DUCTWORK (ACOUSTIC) - R3.0 (MAX 100mm)
06	EXTERNALLY INSULATED DUCTWORK (THERMAL) - R0.8 (MAX 25mm)
07	EXTERNALLY INSULATED DUCTWORK (THERMAL) - R1.2 (MAX 50mm)
08	EXTERNALLY INSULATED DUCTWORK (THERMAL) - R2.0 (MAX 75mm)
09	EXTERNALLY INSULATED DUCTWORK (THERMAL) - R3.0 (MAX 100mm)
10	EXTERNALLY FIRE WRAPPED DUCTWORK (MAX 40mm) - R2.0, FR 2hr
11	EXTERNALLY FIRE WRAPPED (MAX 40mm) AND INTERNALLY LINED (ACOUSTIC) (MAX 25mm) DUCTWORK - R2.8, FR 2hr
12	EXTERNALLY FIRE WRAPPED (MAX 40mm) AND INTERNALLY LINED (ACOUSTIC) (MAX 40mm) DUCTWORK - R3.2, FR 2hr

CIRCULAR SPIRAL WOUND DUCTWORK

DUCTWORK RISER

DUCTWORK DROPPER

NCC COMPLIANT INSULATED FLEXIBLE DUCTING

ACCESSORIES

PANEL FILTER

MANUAL OPPOSED BLADE DAMPER

M — MOTORISED DAMPER

STREAM SPLITTER DAMPER

FD — FIRE DAMPER

BRANCH TAKE OFF

PROPRIETARY BRANCH TAKE OFF (90°) (COMPLETE WITH BUTTERFLY BALANCING DAMPER) — 300/600

BACKDRAFT DAMPER — 600x600

DIRECTION OF AIR FLOW — 1x1200

VSD — VARIABLE SPEED DRIVE — ø450

BSB — BRANCH SPLITTER BOX

CP — AIR CONDITIONING CONTROL PANEL MOUNTED 1500mm ABOVE FLOOR LEVEL. CONFIRM EXACT LOCATION WITH ARCHITECTS

CP/T — AIR CONDITIONING CONTROL PANEL COMPLETE WITH INTEGRAL TEMPERATURE SENSOR MOUNTED 1500mm ABOVE FLOOR LEVEL. CONFIRM EXACT LOCATION WITH ARCHITECTS

T — TEMPERATURE SENSOR. (1500mm ABOVE FLOOR LEVEL. CONFIRM FINAL LOCATION ON SITE UNLESS NOTED OTHERWISE)

H — HUMIDITY SENSOR (2000mm ABOVE FLOOR LEVEL. CONFIRM FINAL LOCATION ON SITE UNLESS NOTED OTHERWISE)

CO — CARBON MONOXIDE SENSOR

300x300/450x450/600x600 CEILING ACCESS PANEL

0.05 — DOOR RELIEF GRILLE BY BUILDER
0.05-600x150mm
0.1-600x250mm
0.15-600x400mm
0.2-600x500mm
0.25-600x1000mm
U-40mm UNDERCUT TO DOOR

INDICATIVE CONTROL LINKAGE

REGISTERS

REGISTER TAG
REGISTER DUCT SYSTEMS (SEE BELOW FOR DESIGNATION)
REGISTER TYPE (SEE BELOW FOR DESIGNATION)
REGISTER DIMENSION (SEE BELOW FOR CLARIFICATION)
AIR FLOW RATE

DUCTING SYSTEMS

S - SUPPLY AIR DUCTWORK

R - RETURN AIR DUCTWORK

O - OUTSIDE AIR DUCTWORK

E - KITCHEN EXHAUST DUCTWORK

E - GENERAL EXHAUST DUCTWORK

E - TOILET EXHAUST DUCTWORK

REGISTER TYPES

GRILLE TYPE 1 - LOUVRE FACE DIFFUSER

GRILLE TYPE 7 - WEATHERPROOF LOUVRE

GRILLE TYPE 5 - EGGCRATE TYPE GRILLE

DIMENSIONS

NECK DIMENSION x FACE DIMENSION
APPLIES TO GRILLE TYPE 1

FACE (WIDTH) DIMENSION x FACE (LENGTH) DIMENSION
APPLIES TO GRILLE TYPE 2-7

NO. of SLOTS x LENGTH DIMENSION
APPLIES TO GRILLE TYPE 8-12

SWIRL DIAMETER DIMENSION
APPLIES TO GRILLE TYPE 13-14

FLEXIBLE DUCTWORK SCHEDULE
(UNLESS OTHERWISE STATED)

FLOW L/s	SIZE (mm)
55-95	ø200
100-150	ø250
155-210	ø300
215-290	ø350
295-375	ø400
380-480	ø450
485-550	ø500

PIPEWORK

⊠ TD — TUNDISH

IWTD — IN-WALL TUNDISH

REFRIGERANT PIPEWORK (INSULATED)

CONDENSATE DRAIN

ABBREVIATIONS

EAG	EXHAUST AIR GRILLE
RAG	RETURN AIR GRILLE
SAD	SUPPLY AIR DIFFUSER
SAG	SUPPLY AIR GRILLE
OAG	OUTSIDE AIR GRILLE
OAL	OUTSIDE AIR LOUVRE
EAL	EXHAUST AIR LOUVRE
EAC	EXHAUST AIR COWL
LFD	LOUVRE FACED DIFFUSER
MDO	MULTIPLE DIFFUSER OUTLET
LBG	LINEAR BAR GRILLE
ECG	EGGCRATE GRILLE
WPL	WEATHERPROOF LOUVRE
VCD	VOLUME CONTROL DAMPER
SSD	STREAM SPLITTER DAMPER
FD	FIRE DAMPER
SD	SMOKE DAMPER
FSD	FIRE/SMOKE DAMPER
SEF	SMOKE EXHAUST FAN
KEF	KITCHEN EXHAUST FAN
TEF	TOILET EXHAUST FAN
GEF	GENERAL EXHAUST FAN
OAF	OUTSIDE AIR FAN
ACC	AIR COOLED CONDENSER
FCU	FAN COIL UNIT
AHU	AIR HANDLING UNIT
FA/TB	DENOTES FROM ABOVE, TO BELOW
FB/TA	DENOTES FROM BELOW, TO ABOVE

DRAWING INDEX

LCE13523 - M01	LEGEND OF SYMBOLS, DRAWING INDEX AND GENERAL NOTES
LCE13523 - M02	BASEMENT LEVEL AIR CONDITIONING AND VENTIALTION ARRANGEMENT
LCE13523 - M03	GROUND FLOOR AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M04	LEVEL 1 AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M05	LEVEL 2 AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M06	LEVEL 3 AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M07	LEVEL 4 AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M08	ROOF LEVEL AIR CONDITIONING AND VENTILATION ARRANGEMENT
LCE13523 - M09	DETAILS

GENERAL NOTES

1 THE MECHANICAL SERVICES DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS, DETAILS AND OTHER ENGINEERING DRAWINGS AND SPECIFICATION AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT.

2 IF ANY DISCREPANCY OCCURS ON THE ENGINEERS DRAWINGS OR BETWEEN DRAWING AND SPECIFICATION, THE CONTRACTOR SHALL DURING TENDERING ASSUME THE LARGER/GREATER. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

3 SUBSTITUTIONS MUST BE APPROVED BY THE ENGINEER AND BE INCLUDED IN ANY TENDER.

4 UNLESS NOTED OTHERWISE ALL DIMENSIONS ARE IN MILLIMETRES. ALL DUCTWORK SIZES SHOWN ARE CLEAR INTERNAL DIMENSIONS ONLY.

5 ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE RELEVANT AUSTRALIAN STANDARDS, CODES AND THE CONTRACT SPECIFICATION.

6 ALL DUCTWORK SHALL CONFORM TO THE STANDARDS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTORS' NATIONAL ASSOCIATION (S.M.A.C.N.A.).

7 ALL ROUTES, INCLUDING CONDENSATE AND REFRIGERATION PIPEWORK ARE SHOWN INDICATIVE AND ARE FOR PRICING PURPOSES ONLY. FINAL ROUTES ARE TO BE CONFIRMED AND COORDINATED ON SITE WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

8 DO NOT SCALE OFF DRAWINGS, ALL DIMENSIONS SHALL BE VERIFIED FROM THE ARCHITECTS DRAWINGS AND BY ACTUAL SITE MEASUREMENTS PRIOR TO MANUFACTURING AND INSTALLING MECHANICAL SERVICES.

9 THE MECHANICAL TRADE SHALL BE RESPONSIBLE FOR SETTING OUT OF THEIR WORKS BY COORDINATING WITH ALL ASSOCIATED TRADES AND SERVICES.

TO BE PRINTED IN COLOUR

THE PURPOSE OF THIS DOCUMENT IS INTENDED TO BE VIEWED OR PRINTED IN COLOUR FOR THE FULL EXTENT OF THE SCOPE OF WORKS TO BE SHOWN.

REV'N	DESCRIPTION	DATE	CHK'D
A	CONSTRUCTION ISSUE	21.09.18	HW

LUCID CONSULTING AUSTRALIA
Level 3/169, Pirie St Adelaide SA 5000
Phone: (08) 8407 9700
Email: adelaide@lucidconsulting.com.au

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CONSTRUCTION ISSUE

PROJECT
THE WILLCOX APARTMENTS
117 PROSPECT ROAD, PROSPECT

DRAWING
LEGEND OF SYMBOLS, DRAWING INDEX AND GENERAL NOTES

MECHANICAL SERVICES

SCALE	DATE	
NTS @ A1	SEPTEMBER 2018	
DESIGNED: TR	DRAWN: DG	No. IN SET: 1 OF 9
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