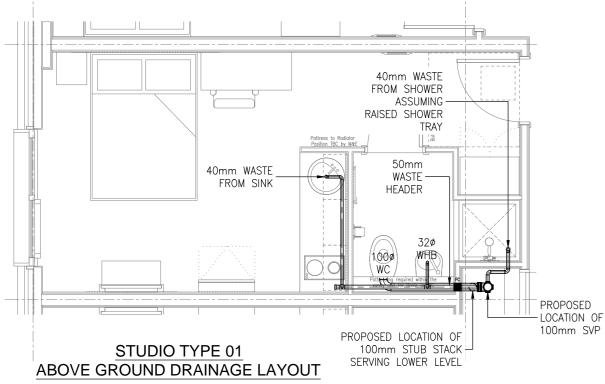


DOMESTIC WATER SERVICES LAYOUT



**VENTILATION LAYOUT** 

	LEGEND
RTA	RISE TO ABOVE
DTLL	DROP TO LOW LEVEL
CV	CEILING VOID
RTA	DROP FROM ABOVE
DTB	DROP TO BELOW
RFB	RISE FROM BELOW
MCWS	MAINS COLD WATER SERVICE
HWSF	HOT WATER SERVICE FLOW
HWSR	HOT WATER SERVICE RETURN
BCWS	BOOSTED COLD WATER SERVICE
PRV	PRESSURE REDUCING VALVE
TMV	TMV2 THERMOSTATIC MIXING VALVE (TMV3 IN ACCESSIBLE AREA)
IV	ISOLATION VALVE
RV	OVENTROP AQUASTROM VALVE
BV	BALL-O-FIX VALVE
(A) × ×	ANCHOR POINT
==M==	EXPANSION BELLOWS
DWS **	DOMESTIC WATER SERVICES RISER REFERENCE

#### ABOVE GROUND DRAINAGE NOTES

- ACCESS DOORS TO BE FITTED ON VERTICAL STACKS 1500mm ABOVE FINISHED FLOOR LEVEL ON FLOORS INDICATED AND ABOVE DRAIN POINTS ON GROUND FLOOR.
- 2. ALLOW FOR FIRE COLLARS AT ALL LOCATIONS WHERE PIPES PASS BETWEEN FLOORS AND FIRE COMPARTMENTS.
- 3. ALL DRAINAGE PIPEWORK TO BE IN POLYPIPE TERRAIN
- 4. RODDING EYES TO BE INSTALLED ON ALL CHANGES IN DIRECTION OF PIPEWORK.
- 5. THERMAL EXPANSION TO BE ACCOMMODATED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AT EACH FLOOR LEVEL ON VERTICAL STACKS AND EVERY 4M ON HORIZONTAL RUNS.

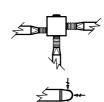
## DOMESTIC SERVICES NOTES

- 1. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 2. ALL PIPEWORK TO BE CARRIED OUT IN COPPER TO BS EN 1057 R250 (BS 2871 TABLE X).
- 3. PRESS FIT COPPER FITTINGS (UP TO 108mm) TO BE USED IN ACCORDANCE WITH BS
- 4. THE INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE WATER SUPPLY (WATER FITTINGS) REGULATIONS 1999, HSC L8 AND BS 8558: 2011 AND BS EN 806.
- 5. ALL APPLIANCES TO BE FITTED WITH BALL-O-FIX ISOLATION VALVES.
- 6. ALL PIPEWORK LOCATED WITHIN VOIDS AND RISERS TO BE THERMALLY INSULATED WITH CLASS O FOIL FINISHED MINERAL WOOL & HAVE I.D LABELS.
- 7. SAFETY RELIEF VALVES FROM WATER HEATERS TO BE PIPED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 8. DRAIN COCKS TO BE FITTED AT ALL LOW POINTS.
- CHLORINATION, TESTING & COMMISSIONING OF SYSTEM TO BE CARRIED OUT IN ACCORDANCE WITH ALL RELEVANT GUIDELINES/REQUIREMENTS.
- 10. EXPANSION REQUIREMENTS TBC BY DST PRIOR TO INSTALLATION.
- 11. ALL MAINS PIPEWORK TO BE PRESSFIT.
- 12. ALL VALVES ABOVE 28mm TO BE SOLDERED.
- 13. ALL STUDIO SINK CONNECTIONS TO DROP WITHIN PARTITIONS OR WHERE AGAINST AN EXTERNAL WALL SHOULD BE CHASED OUT TO ALLOW CONCEALMENT.
- 14. FOR DETAILS OF PIPEWORKS SIZES AND VALVE ARRANGEMENTS REFER TO DOMESTIC WATER

#### VENTILATION NOTES

- 1. ALL PLANT AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 2. ALL SHEET METAL DUCTWORK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH HVCA DW/144.
- 3. DUCTWORK SHALL HAVE ACCESS PANELS IN ACCORDANCE WITH THE REQUIREMENTS OF DW/144. ADDITIONAL ACCESS DOORS SHALL BE FITTED AS NECESSARY TO AID DUCTWORK CLEANING IN ACCORDANCE WITH HVCA TR/19.
- 4. ALL PLASTIC DUCTWORK SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH HVCA DW/154.
- 5. VENTILATION SYSTEMS WILL BE INSTALLED AND COMMISSIONED TO COMPLY WITH THE 2010 BUILDING REGULATIONS PART F - MEANS OF VENTILATION AND THE DESIGN SPECIFICATION DOCUMENTS.
- 6. THE COMMISSIONED SYSTEM WILL COMPLY WITH THE  $17^{\hbox{\scriptsize TH}}$  EDITION IEE BS7671.
- 7. EACH STUDIO VENTILATION UNIT SHALL BE HORIZONTALLY MOUNTED WITHIN THE CEILING VOID AS INDICATED ON THE DRAWING.
- 8. EACH STUDIO VENTILATION UNIT TO RUN AT CONTINUOUS TRICKLE WITH BOOST BEING ACTIVATED VIA SWITCH IN THE KITCHEN OR INTEGRAL HUMIDISTAT SENSOR.
- 9. DUCTING TO ATMOSPHERE VIA 204x60mm RECTANGULAR RIGID DUCTING TO EXTERNAL ARCHITECTURAL LOUVRES WITH BACK PLENUM BOXES.
- 10. PURGE VENTILATION WILL NOT BE PROVIDED BY THE MEV SYSTEM. PURGE TO BE PROVIDED BY OPENING WINDOWS AT 1/20TH FLOOR
- 11. EXACT LOCATION OF ALL FANS TO BE CONFIRMED BY ARCHITECT PRIOR TO INSTALLATION.

### **LEGEND**



CONTINUOUS EXTRACT UNIT 340x310x250h

CEILING MOUNTED EXTRACT ADJUSTABLE DIFFUSER (POSITION TO BE AGREED PRIOR TO INSTALL)

FIRE DAMPERS TO BE TENMAT FIREFLY 109 VENT DUCT FIRE SLEEVES INSTALLED AS PER MANUFACTURERS RECOMMENDATIONS BSB SMOKE/FIRE DAMPERS (EXACT

DETAILS TBC) EXHAUST LOUVRE (TO BE INSTALLED BY

MAIN CONTRACTOR) WALL-MOUNTED  $\frac{1}{2}$  HOUR MOMENTARY BOOST SWITCH (POSITION TO BE AGREED

PRIOR TO INSTALL)

VOLUME CONTROL DAMPER

600x600 ACCESS HATCH (POSITION TO BE AGREED)

1. WORKING FROM HEIGHT - USE OF SAFE WORKING

Materials/Installation Notes

PLATFORMS TO BE USED.

- 2. WORKING AT HEIGHT RISK OF TOOLS OR EQUIPMENT BEING DROPPED ONTO OPERATIVES BELOW - RESTRICT ACCESS TO AREAS DIRECTLY BELOW WHERE WORKS ARE BEING CARRIED OUT.
- 3. INSTALL SERVICES WITHIN CEILING AND CEILING/SERVICE VOIDS -RISH OF FALL, INHALATION OF DUST FIBRES -SUITABLE USE OF SAFE PLATFORMS AND USE ADDITIONAL PPE IE DUST MASKS, GLOVES ETC.
- 4. USE OF HAZARDOUS MATERIALS HAZARDOUS MATERIALS HAVE NOT BEEN SPECIFIED IN THE NEW WORKS. COSHH SHEETS TO BE PROVIDED WHERE APPLICABLE AND SUITABLE PPE TO BE USED BY STAFF.
- 5. MANUAL HANDLING OF PLANT AND EQUIPMENT -EQUIPMENT IS GENERALLY SMALL ENOUGH TO BE SUITABLE FOR MANUAL HANDLING. MECHANICAL MEANS TO BE USED TO LIFT LARGER ITEMS
- 6. CUTTING, DRILLING ETC, OF METALWORKS SUCH AS TRAY CONDUIT TRUNKING ETC - NORMAL SAFETY PROCEDURES TO BE USED, PROVIDE PROTECTIVE CLOTHING GOGGLES

Legend

Revisions

Rev. Date. ISSUED FOR COMMENT/APPROVAL P1 28-01-15 N.S. 03-02-15 ISSUED FOR CONSTRUCTION N.S.

# CONSTRUCTION

SEEL STREET LIVERPOOL ONE

STUDIO TYPE 01 LAYOUT PROPOSED MECHANICAL SERVICES



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Drawing No

Drawn: L.S. OCT 2014

XR-72\_001-REV D-Studio Type 1-15-01-28

C5135-M-X-(50)-PL-ZZ-01



A314

Schedule Schedule Schedule Type 1 Type 1 Type 1 Type 1 Type 1 Number Number Number Number Number A402 AM01 B402 BM03 A406 AM02 B407 BM08 C212 A407 B01 B411 BM09 C217 A409 B02 B415 C302 B04 B502 C02 C305 A410 B507 C102 C306 A414 B05 A502 B102 B511 C105 C307 B107 B515 C308 A506 C106 C311 A507 B111 B602 C107 A509 B115 B607 C108 C312 A510 B202 B611 C317 C111 B207 B615 C402 A514 C112 B702 C117 C405 A602 B211 B707 A606 B215 C202 C406 A607 B302 B711 C205 C407 A609 B307 B715 C206 C408 A610 B311 C207 C411 BM01

BM02

C208

C412

= 122

B315

A614

Room Room Room Room Room Room Room Schedule Schedule Schedule Schedule Type 1 Type 1 Number Number A102 C417 A106 C502 A107 C505 A109 C506 A110 C507 C508 A114 A202 C511 A206 C512 A207 C517 A209 CM01 A210 CM02 A214 CM03 A302 CM05 A306 CM06 A307 TOTAL A309 No OF A310 TYPE 01

VENTAXIA MULTIVENT CONTINUOUS EXTRACT FAN MVDC-MSH 204x60mm FLAT DUCT 204x60mm FLAT DUCT 204x60mm DUCTWORK TO CONNECT TO FLAT DUCT PLENUM BOX (BY OTHERS) & DISCHARGE VIA EXTERNAL LOUVRE ABOVE WINDOW. STUDIO TYPE 01