

FOR REFERENCE TO EXTRACT DUCTS ONLY



CDM NOTES

1. THIS ROOF VOID HAS A SINGLE MEANS OF ACCESS AND ESCAPE VIA A CUSTOMER'S BEDROOMS BATHROOM. ENSURE OPERATIVES DO NOT ACCESS THE VOID UNACCOMPANIED. ACCESS SHALL BE STRICTLY CONTROLLED. METHOD STATEMENTS TO BE PROVIDED. SOME CONFINED WORKING AREAS. EXISTING LIGHTING IS INSUFFICIENT. CONTRACTOR SHALL PROVIDE ADDITIONAL LIGHTING DURING WORKING HOT WORKS. NO HOT WORK SHALL TAKE PLACE WITHOUT THE PRIOR INSTALLATION OF THE DRY RISER IN ADJACENT STAIRCASE. CONTRACTOR TO PROVIDE FIRE EXTINGUISHING EQUIPMENT. VENTILATION TO BE PROVIDED BY OPENING EXISTING CHIMNEY ACCESS HATCHES. RISK MEDIUM. HAZARD HIGH.
2. BREAK EXISTING BLOCKWORK BLOCKED ACCESS. PROVIDE NEW FIRE HATCH. ACCESS TO THE LINK BLOCK ROOF VOID IS RESTRICTED. RISK MEDIUM. HAZARD LOW.
3. WEAK CEILING IN ROOF VOID. RISK OF FALL THROUGH WEAK CEILING. CEILING IS CURRENTLY PROTECTED WITH EDGE PROTECTION. CONTRACTOR TO PROVIDE PROPPING FROM BELOW AND SCAFFOLDING TO ACCESS SERVICES IN THIS AREA. RISK MEDIUM.
4. EXISTING ACCESS HATCH FOR SERVICES. WEAK CEILING. THIS IS CORDONED BY EDGE PROTECTION. USE FOR THIS ACCESS HATCH IS PREVENTED BY EXISTING HIGH LEVEL SERVICES AT LEVEL 6 BELOW. SCAFFOLDING TO BE PROVIDED FOR ACCESS OVER THIS AREA.
5. PROVIDE ACCESS AT THIS LEVEL FOR OPERATIVE TO ABSEIL DOWN DUCTWORK TO PERFORM KITCHEN DUCTWORK CLEANING. ACCESS IN WINDOWS. THIS OCCURS IN THREE LOCATIONS. ABSEILING POINTS TO BE CHECKED YEARLY AND BEFORE EVERY USE.

DRAWING NOTES

1. SECTION OF DIFFUSER TO BE BACKED WITH BLACK MESH TO PREVENT LIGHT SPLASH IN RETURN SECTION. SUPPLY SECTION OF DIFFUSER TO HAVE A BARFOAM LINED DUCT (IN BRACKET 6 DIMENSION OF PLENUM).
2. ELECTRIC UNDERFLOOR HEATING CONTROLLER.
3. EXTRACT & SUPPLY DUCTS TO BE METAL VERTICAL AND PLASTIC HORIZONTAL WITH CRUSH TYPE INTENSIFIED DAMPERS AT PARTITION LEVEL. FOR DUCT SIZES REFER TO SCHEMATICS.
4. DOOR UNDERCUTS = 10mm.
5. 16mm HWS & 16mm HWS RAUTITAN AT LL.
6. MIXING VALVE BELOW SINK.
7. 180 HWS & CWS RAUTITAN DROP IN PARTITION.
8. BOOSTED COLD WATER SERVICE REWU MANIFOLD WITH MULTIPLE PORT - ALWAYS LOCKED ONE MANIFOLD BELOW HWS MANIFOLD. COLD WATER RISER TO BE SEPARATED FROM HWS RISER WITH INSULATED PARTITION. CWS & HWS RISER TO BE INSULATED RUN PER RAUTITAN PIPES TO EACH APPLIANCE.
9. AS NOTE 8 FOR HWS MANIFOLD - MANIFOLD TO BE INSULATED. HWS RAUTITAN PIPES TO BE INSULATED.
10. 180 PS-X/MIXED WATER TO SHOWER OVERHEAD SHOWER SPOUT & 180 TO HAND HELD SHOWER HOSE.
11. ACCESS PANEL 1100x460.
12. 180 HWS & 180 CWS TO RUN IN FLOOR VOID (NO JOINTS).
13. ACCESS TO MANIFOLD TO BE VIA WC CISTERN ACCESS (D) TO BE RAISED 300mm ABOVE TOP OF CISTERN TO ALLOW ACCESS.
14. UPPER SECTION OF DIFFUSER TO HAVE 150mm HIGH PLENUM. LOWER PART OF DIFFUSER TO BE OPEN AND BACKED WITH BLACK MESH TO BLOCK LIGHT SPLASH (IN BRACKET 6 DIMENSIONS OF SPOUTS). PLENUM TO BE BARFOAM LINED.
15. ACCESS PANEL 300x300.
16. PROVIDE NEW SUSPENDED CEILING (MM AS PER NOTE).
17. STRUCTURAL HOLE TO BE FORMED.
18. PROVIDE ACOUSTIC 1250 FLEX WITH MINIMUM 1 CHANGE OF DIRECTION. 1m LENGTH.
19. 320 CONDENSATE GRAB WITH WATERLESS TRAP.
20. CONNECT TO EXISTING DUCTS. DUCTS TO BE CLEANED, CHECKED. ALL LEAKS REPAIRED. PRESSURE TESTED AND SMOKE TEST PERFORMED. ALL DAMPERS IN BLAB TO BE REMOVED AND FIRE SEPARATION TO BE VERTICAL WITH NEW PLASTIC CIRCULAR DUCTS (125mm) WITH CRUSH TYPE DAMPERS. ALL VCD's TO BE REMOVED. NEW GRILLES ARE CONSTANT VOLUME.
21. FIRST ONE METER OF CONDENSATE PIPE TO BE INSULATED.
22. PLENUM TO BE EXTERNALLY INSULATED AND BARFOAM INTERNALLY AND FRESH AIR AND DRAUGHT AIR FROM MWHB TO BE INSULATED.
23. REFRIGERANT TRAY BY SPECIALIST.
24. REFRIGERANT PIPEWORK SIZES BY SPECIALIST.
25. RECOVER REFRIGERANT AND RELOCATE DX UNITS.
26. RECOVER REFRIGERANT AND RELOCATE DX UNITS.
27. EXISTING DUCT TO REMAIN. TO BE CLEANED, REPAIRED. PRESSURE TESTED & SMOKE TESTED OR REPLACED AS REQUIRED.
28. PRESSURE REDUCING VALVE.
29. ATTENUATORS ARE NOT REQUIRED AS PER THE FANS NOISE SPECIFIED IN THE TENDER SCHEDULES. CONTRACTOR TO SUPPLY ATTENUATORS IF A DIFFERENT FAN IS SELECTED.
30. PROVIDE 75mm SHOW GAP (DIMENSIONS UNLESS OTHERWISE INDICATED).
31. FAN COIL ENCLOSURE BY INTERIOR DESIGNER. CONTRACTOR TO FIT PROPOSED GRILLE.

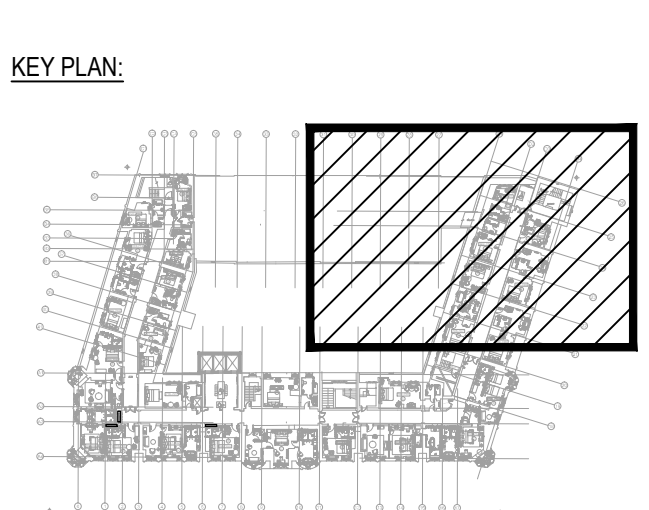
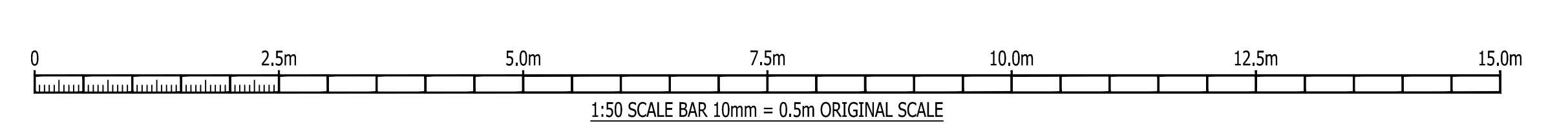
NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. THE CONTRACTOR MUST VERIFY ALL DIMENSIONS TOLERANCES AND REFERENCES BEFORE PROCEEDING WITH WORKS.
3. ANY DISCREPANCY FOUND BETWEEN THIS DRAWING AND ANY OTHER DOCUMENTS MUST BE REPORTED IMMEDIATELY TO THE CONTRACT ADMINISTRATOR.
4. REMOVE THIS DRAWING FROM CURRENCY WHEN REVISED DRAWING IS ISSUED.
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6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ALL OTHER CONTRACT PROJECT DOCUMENTS.
7. THE CONTRACTOR SHALL REFER TO ARCHITECTS OR INTERIOR DESIGN DRAWINGS INCLUDING REFLECTED CEILING PLANS AND OTHER SPECIALIST DRAWINGS FOR SETTING OUT ALL VISIBLE AND CEILING MOUNTED EQUIPMENT.
8. PIPEWORK ROUTES TO FOLLOW EXISTING ROUTES.



FOR CONTINUATION SEE DRAWING No. P14-116-M50-07-01

FOR CONTINUATION SEE DRAWING No. P14-116-M50-07-04



| No. | REVISION | CHK | DATE |
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| | | | |

THE DRAWING IS BASED ON THE FOLLOWING INFORMATION:-
 ARCHITECT'S DRAWING No. _____
 STRUCTURAL DRAWING No. _____

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 F: +44(0)203 6979301
 www.elementaconsulting.com

| | |
|----------------|---|
| CLIENT | PRINCIPAL HAYLEY |
| PROJECT | RUSSELL HOTEL LONDON WC1B 5BE |
| TITLE | SEVENTH FLOOR MECHANICAL SERVICES LAYOUT SHEET 2 OF 4 |
| DATE | APR 15 |
| DRAWN | OB |
| CHECKED | DG |
| APPROVED | PH |
| DRAWING STATUS | TENDER |
| DRAWING No. | P14-116-M50-07-02 |
| REVISION | T1 |

FOR REFERENCE TO EXTRACT DUCTS ONLY

CONTINUATION SEE DRAWING No. P14-116-M50-07-01

STANDARD NOTES

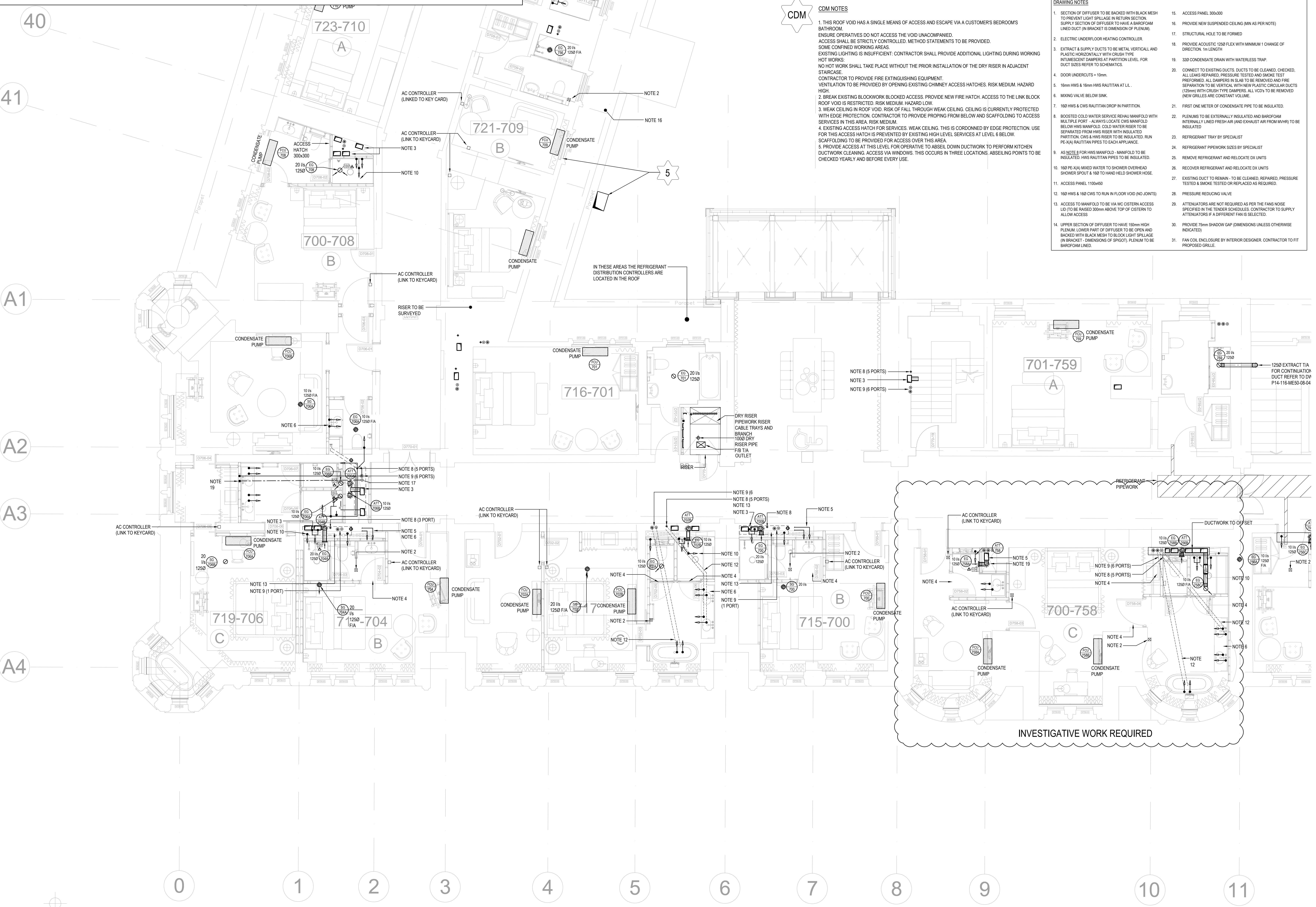
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- PROVIDE ACCESS AT THIS LEVEL FOR OPERATIVE TO ABSEIL DOWN DUCTWORK TO PERFORM KITCHEN DUCTWORK CLEANING. ACCESS VIA WINDOWS. THIS OCCURS IN THREE LOCATIONS. ABSEILING POINTS TO BE CHECKED YEARLY AND BEFORE EVERY USE.

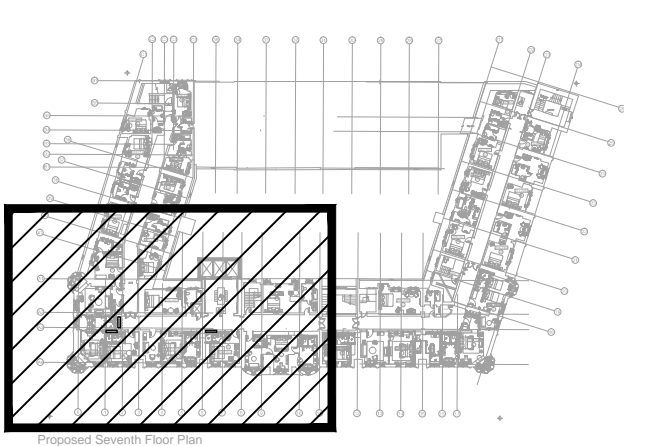
DRAWING NOTES

- SECTION OF DIFFUSER TO BE BACKED WITH BLACK MESH TO PREVENT LIGHT SPILLAGE IN RETURN SECTION. SUPPLY SECTION OF DIFFUSER TO HAVE A BARFOAM LINED DUCT IN BRACKET (5 DIMENSIONS OF PLACING).
- ELECTRIC UNDERFLOOR HEATING CONTROLLER.
- EXTRACT & SUPPLY DUCTS TO BE METAL VERTICAL AND PLASTIC HORIZONTAL WITH CRUSH TYPE INTUMESCENT DAMPERS AT PARTITION LEVEL. FOR DUCT SIZE REFER TO SCHEMATICS.
- DOOR UNDERCUTS - 10mm.
- 160mm HWS & 160mm HWS RAUJITAN AT LL.
- MIXING VALVE BELOW SINK.
- 160 HWS & CWS RAUJITAN DROP IN PARTITION.
- BOOSTED COLD WATER SERVICE REHU MANIFOLD WITH HLL PIPE PORT - ALWAYS LOCATE CWS MANIFOLD BELOW HWS MANIFOLD. COLD WATER RISER TO BE SEPARATED FROM HWS RISER WITH INSULATED PARTITION. CWS & HWS RISER TO BE INSULATED. RUN PE-X/AL RAUJITAN PIPES TO EACH APPLIANCE.
- AS NOTE 8 FOR HWS MANIFOLD - MANIFOLD TO BE INSULATED. HWS RAUJITAN PIPES TO BE INSULATED.
- 160 PE-X/AL MIXED WATER TO SHOWER OVERHEAD SHOWER SPOUT & 160 TO HAND HELD SHOWER HOSE.
- ACCESS PANEL 1100x450.
- 160 HWS & 160 CWS TO RUN IN FLOOR VOID (NO JOINTS).
- ACCESS TO MANIFOLD TO BE 160 WC CISTERN ACCESS. LID TO BE RAISED 300mm ABOVE TOP OF CISTERN TO ALLOW ACCESS.
- UPPER SECTION OF DIFFUSER TO HAVE 150mm HIGH PLUNGIN LOWER PART OF DIFFUSER TO BE OPEN AND BACKED WITH BLACK MESH TO BLOCK LIGHT SPILLAGE (IN BRACKET - DIMENSIONS OF SPOUT). PLENUM TO BE BARFOAM LINED.
- ACCESS PANEL 300x300.
- PROVIDE NEW SUSPENDED CEILING (MIN AS PER NOTE).
- STRUCTURAL HOLE TO BE FORMED.
- PROVIDE ACOUSTIC 1250 FLEX WITH MINIMUM 1 CHANGE OF DIRECTION. 1m LENGTH.
- 320 CONDENSATE DRAIN WITH WATERLESS TRAP.
- CONNECT TO EXISTING DUCTS. DUCTS TO BE CLEANED. CHECKED. ALL LEAKS REPAIRED. PRESSURE TESTED AND SMOKE TEST PERFORMED. ALL DAMPERS IN SLAB TO BE REMOVED AND FIRE SEPARATION TO BE VERTICAL WITH FIRE RESISTANT CIRCULAR DUCTS (125mm) WITH CRUSH TYPE DAMPERS. ALL VCDs TO BE REMOVED (NEW GRILLES ARE CONSTANT VOLUME).
- FIRST ONE METER OF CONDENSATE PIPE TO BE INSULATED.
- PLENUMS TO BE EXTERNALLY INSULATED AND BARFOAM INTERNALLY LINED. FRESH AIR AND EXHAUST AIR FROM MVR/IK TO BE INSULATED.
- REFRIGERANT TRAY BY SPECIALIST.
- REFRIGERANT PIPEWORK SIZES BY SPECIALIST.
- REMOVE REFRIGERANT AND RELOCATE DX UNITS.
- RECOVER REFRIGERANT AND RELOCATE DX UNITS.
- EXISTING DUCT TO REMAIN - TO BE CLEANED, REPAIRED. PRESSURE TESTED & SMOKE TESTED OR REPLACED AS REQUIRED.
- PRESSURE REDUCING VALVE.
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- PROVIDE 75mm SHADOW GAP (DIMENSIONS UNLESS OTHERWISE INDICATED).
- FAN COIL ENCLOSURE BY INTERIOR DESIGNER. CONTRACTOR TO FIT PROPOSED GRILLE.



FOR CONTINUATION SEE DRAWING No. P14-116-M50-07-04

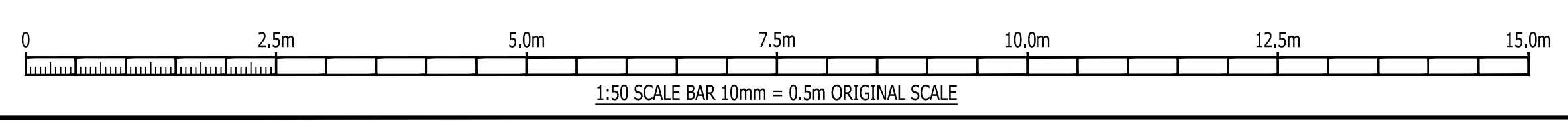
KEY PLAN



| No. | REVISION | CHK | DATE |
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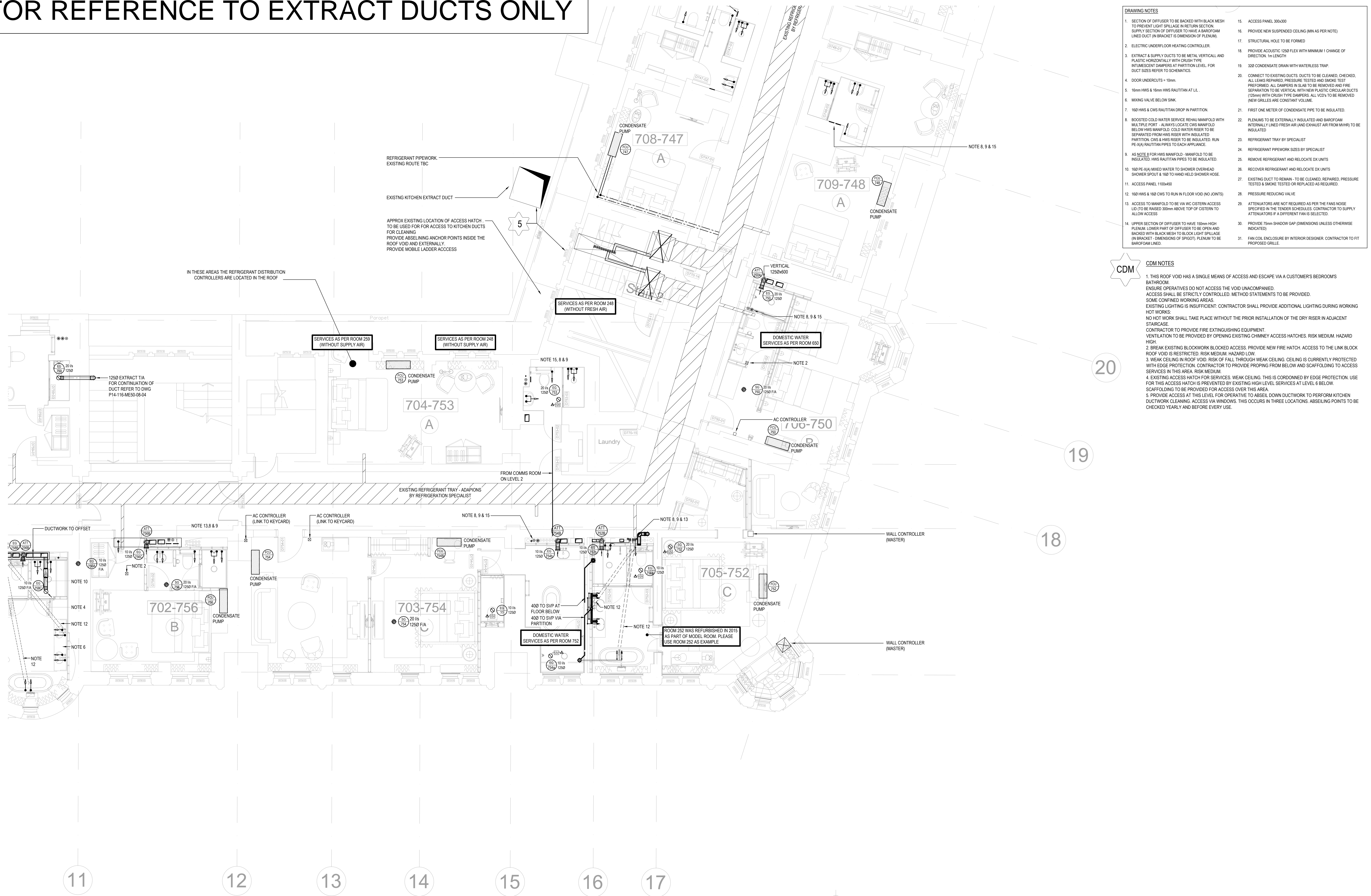
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 STRUCTURAL DRAWINGS:
 ELEMENTA CONSULTING LTD
 One Valentine Place
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 T: +44(0)203 6979300
 F: +44(0)203 6979301
 www.elementaconsulting.com

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|----------------|---|
| CLIENT | PRINCIPAL HAYLEY |
| PROJECT | RUSSELL HOTEL LONDON WC1B 5BE |
| TITLE | SEVENTH FLOOR MECHANICAL SERVICES LAYOUT SHEET 3 OF 4 |
| DATE | MAR 15 |
| SCALE | 1:50 @ A0 |
| DRAWN | OB |
| CHECKED | DG |
| APPROVED | PK |
| CAD/IN | P14-116-M50-07-03 |
| DRAWING STATUS | TENDER |
| DRAWING No. | P14-116-M50-07-03 |
| REVISION | T1 |



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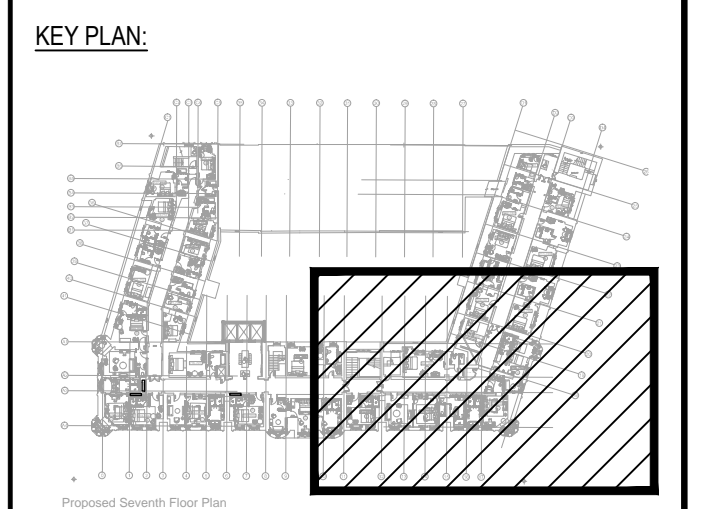
FOR CONTINUATION SEE DRAWING No. P14-116-M50-07-03



- DRAWING NOTES**
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 - DOOR UNDERDUTS + 10mm.
 - 16mm HWS & 16mm HWS RAUITTAN AT L.L.
 - MINING VALVE BELOW SINK.
 - 160 HWS & CWS RAUITTAN DROP IN PARTITION.
 - BOOSTED COLD WATER SERVICE RETURN MANIFOLD WITH MULTIPLE PORT - ALWAYS LOCATE CWS MANIFOLD BELOW HWS MANIFOLD. COLD WATER RISER TO BE SEPARATED FROM HWS RISER WITH INSULATED PARTITION. CWS & HWS RISER TO BE INSULATED. RUN PE-VA RAUITTAN PIPES TO EACH APPLIANCE.
 - AS NOTE 4 FOR HWS MANIFOLD - MANIFOLD TO BE INSULATED. HWS RAUITTAN PIPES TO BE INSULATED.
 - 160 PE-VA MIXED WATER TO SHOWER OVERHEAD SHOWER SPOUT & 160 TO HAND HELD SHOWER HOSE.
 - ACCESS PANEL 1100x400.
 - 160 HWS & 160 CWS TO RUN IN FLOOR VOID (NO JOINTS).
 - ACCESS TO MANIFOLD TO BE VIA WC CISTERN ACCESS LD (TO BE RAISED 300mm ABOVE TOP OF CISTERN TO ALLOW ACCESS).
 - UPPER SECTION OF DIFFUSER TO HAVE 180mm HIGH PLENUM LOWER PART OF DIFFUSER TO BE OPEN AND BACKED WITH BLACK MESH TO BLOCK LIGHT SPILLAGE (IN BRACKET S DIMENSIONS OF SPOUT). PLENUM TO BE BARFOAM LINED.
 - ACCESS PANEL 300x300.
 - PROVIDE NEW SUSPENDED CEILING (MIN AS PER NOTE).
 - STRUCTURAL HOLE TO BE FORMED.
 - PROVIDE ACOUSTIC 1200 FLEX WITH MINIMUM 1 CHANGE OF DIRECTION. 1m LENGTH.
 - 300 CONDENSATE DRAIN WITH WATERLESS TRAP.
 - CONNECT TO EXISTING DUCTS. DUCTS TO BE CLEANED. CHECKED. ALL LEAKS REPAIRED. PRESSURE TESTED AND SMOKE TEST PERFORMED. ALL DAMPERS IN PLACE TO BE REMOVED AND FIRE SEPARATION TO BE VERTICAL WITH NEW PLASTIC CIRCULAR DUCTS (120mm) WITH CRUSH TYPE DAMPERS. ALL VCDs TO BE REMOVED. NEW GRILLES ARE CONSTANT VOLUME.
 - FIRST ONE METER OF CONDENSATE PIPE TO BE INSULATED.
 - PLENUMS TO BE EXTERNALLY INSULATED AND BARFOAM INTERNALLY LINED. FRESH AIR (AND EXHAUST AIR FROM MVHR) TO BE INSULATED.
 - REFRIGERANT TRAY BY SPECIALIST.
 - REFRIGERANT PIPEWORK SIZES BY SPECIALIST.
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A0 ORIGINAL SIZE DRAWING

| | | | |
|-----|----------|-----|------|
| No. | REVISION | CHK | DATE |
| | | | |

THIS DRAWING IS BASED ON THE FOLLOWING INFORMATION:-
 ARCHITECT'S DRAWING No. _____
 STRUCTURAL DRAWING No. _____

Elementa Consulting Ltd
 One Valentine Place
 London
 SE1 8QH

elementa
 Member of Integral Group

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 F: +44(0)203 6979301
 www.elementaconsulting.com

CLIENT: PRINCIPAL HAYLEY

PROJECT: RUSSELL HOTEL LONDON WC1B 5BE

TITLE: SEVENTH FLOOR MECHANICAL SERVICES LAYOUT SHEET 4 OF 4

DATE: FEB 15 SCALE: 1:50 @ A0

| | | |
|-------|---------|----------|
| DRAWN | CHECKED | APPROVED |
| | | |

DRAWING STATUS: TENDER

DRAWING No.: P14-116-M50-07-04

REVISION: T1

