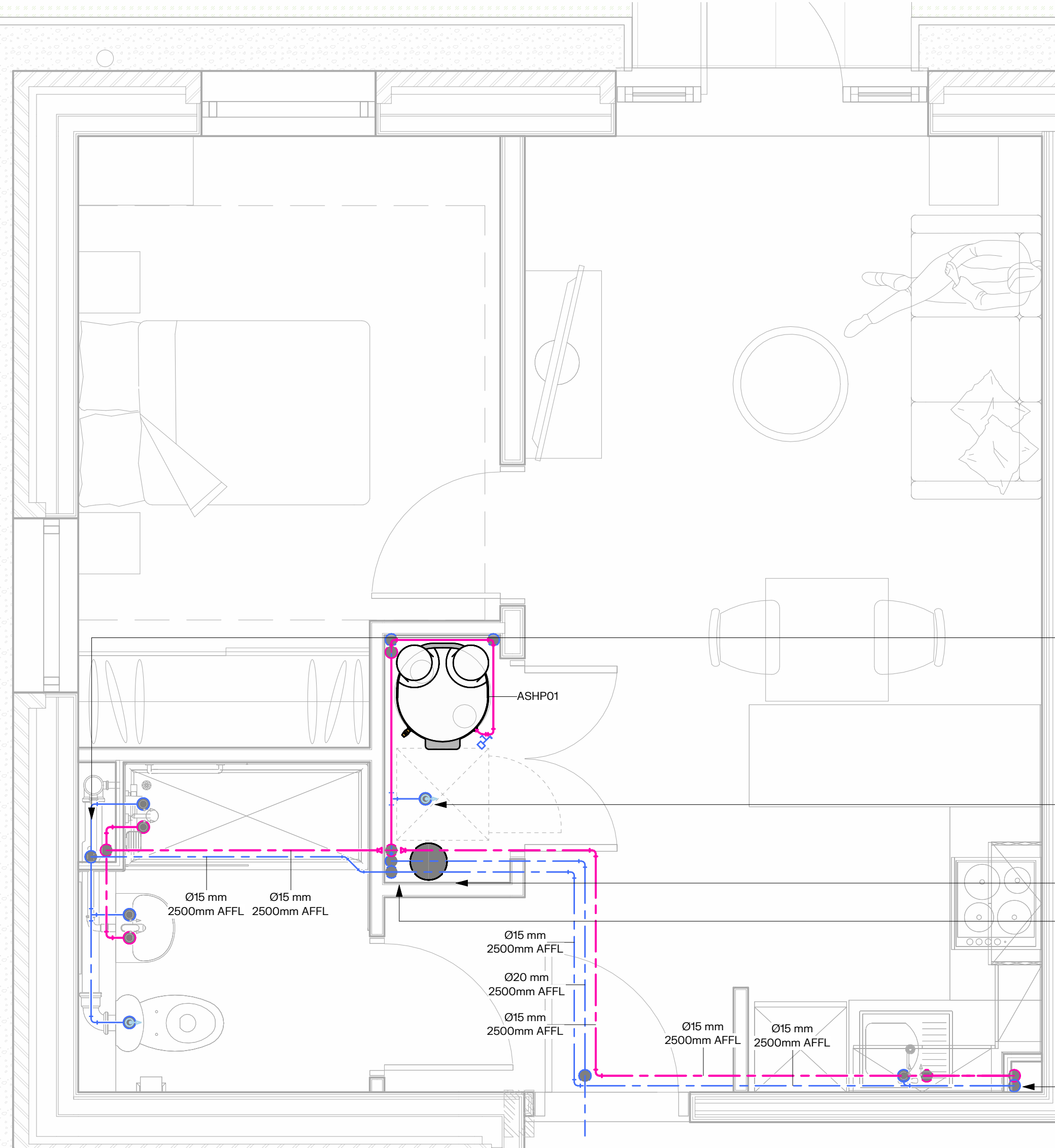
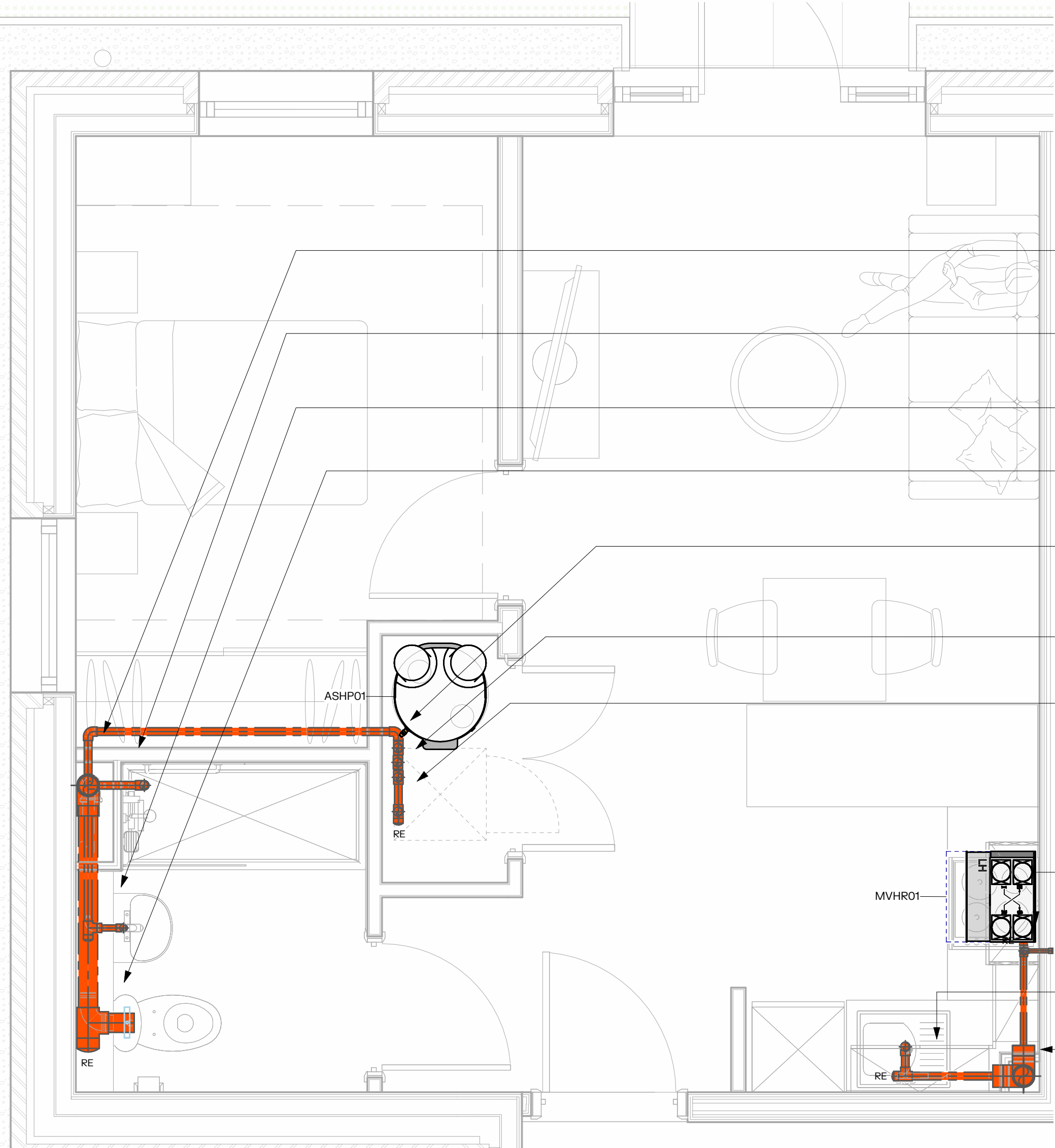




## 00 - EV1-1 (DA) DWS

1 : 25

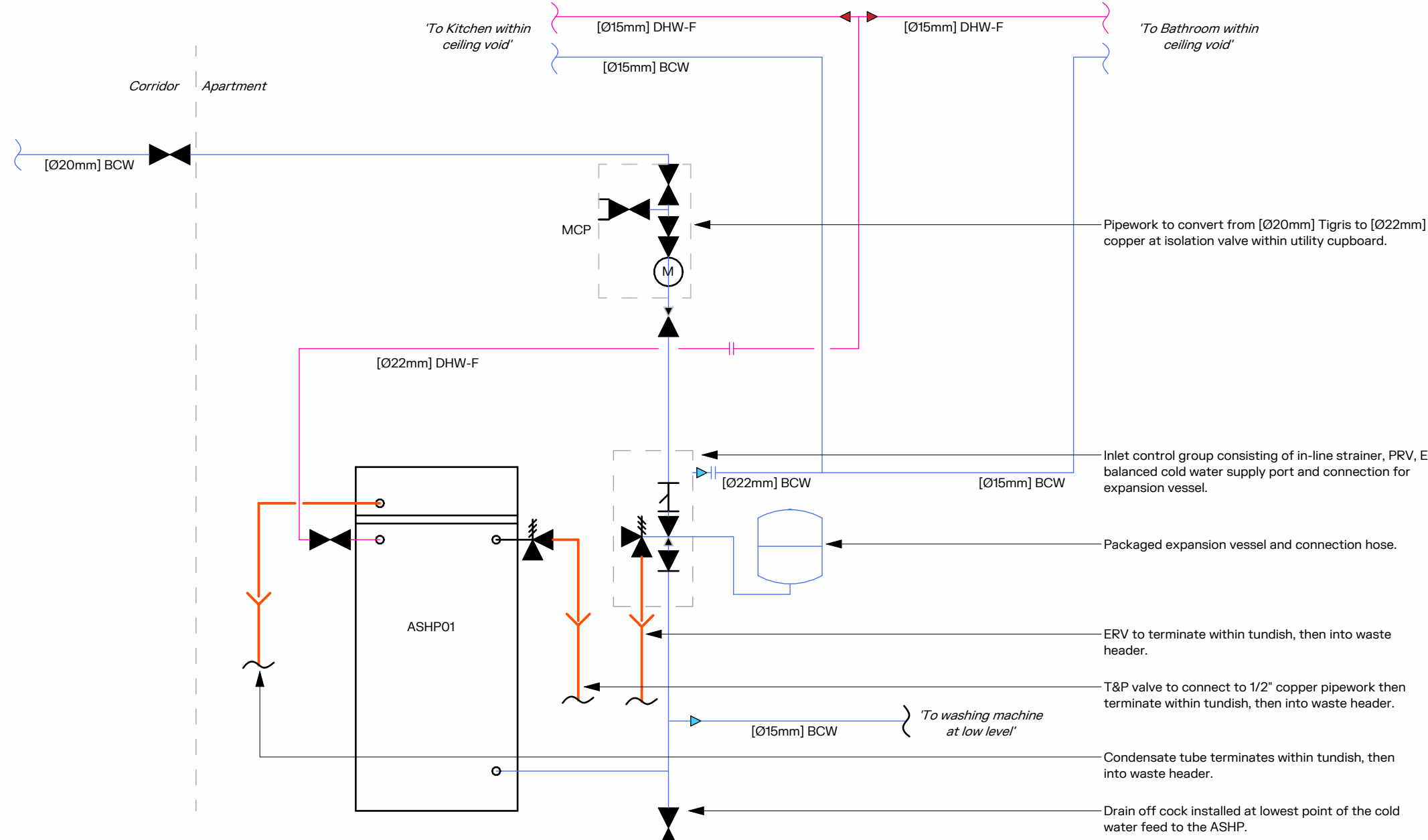
| Domestic Water Services Notes:  |                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                              | Air vents to be installed at all high points of the system to facilitate the complete and rapid venting of the system.                                                                                                                                                                                                                                                                             |
| 2.                              | Drain cocks to be provided at all low points of the system to facilitate the complete and rapid draining of the system.                                                                                                                                                                                                                                                                            |
| 3.                              | An isolation valve shall be provided to each outlet. Unless otherwise stated, final pipework connections to be as follows:<br>W/Bs & Showers: Ø15 mm<br>Sinks: Ø15 mm<br>WCs: Ø10 mm                                                                                                                                                                                                               |
| 4.                              | Pipework shall be thermally insulated in accordance with the specification and boxed in.                                                                                                                                                                                                                                                                                                           |
| 5.                              | All pipework should be concealed from view, either installed in partitions, or boxed in as necessary.                                                                                                                                                                                                                                                                                              |
| 6.                              | All pipework shall be fully installed in strict accordance with BS 5422.                                                                                                                                                                                                                                                                                                                           |
| 7.                              | Fix stopping shall be provided where services penetrate through firewalls. The contractor shall refer to the fire strategy drawings and documents.                                                                                                                                                                                                                                                 |
| 8.                              | Pipework within the apartments shall be carried out in Wavin Hq20 Polyethylene Barrier Pipe. Fittings are to be Wavin Hq20 push-fit fittings suitable for potable water supplies. Pipework within cylinder cupboards shall be carried out in Wavin Tigris K1 Composite Aluminium and Polyethylene Pipe. Fittings are to be Wavin Tigris K2 press-fit fittings suitable for potable water supplies. |
| 9.                              | Meters to be supplied and installed 'free issue' by United Utilities.                                                                                                                                                                                                                                                                                                                              |
| Domestic Water Services Legend: |                                                                                                                                                                                                                                                                                                                                                                                                    |
| ---                             | BCW Pipework at LL                                                                                                                                                                                                                                                                                                                                                                                 |
| ---                             | BCW Pipework within CV                                                                                                                                                                                                                                                                                                                                                                             |
| ---                             | DHW-F Pipework at LL                                                                                                                                                                                                                                                                                                                                                                               |
| ---                             | DHW-F Pipework at HL                                                                                                                                                                                                                                                                                                                                                                               |
| ---                             | DHW-F Pipework within CV                                                                                                                                                                                                                                                                                                                                                                           |
| FC                              | Intumescent Fire Collar                                                                                                                                                                                                                                                                                                                                                                            |
| WH--                            | Water Heater                                                                                                                                                                                                                                                                                                                                                                                       |
| IV                              | Isolation Valve                                                                                                                                                                                                                                                                                                                                                                                    |
| DOC                             | Drain off cock                                                                                                                                                                                                                                                                                                                                                                                     |
| TMV3                            | Thermotatic Mixing Valve 3                                                                                                                                                                                                                                                                                                                                                                         |
| ERV                             | Expansion relief valve                                                                                                                                                                                                                                                                                                                                                                             |
| T&P                             | Temperature & pressure relief valve                                                                                                                                                                                                                                                                                                                                                                |
| DCV                             | Double check valve                                                                                                                                                                                                                                                                                                                                                                                 |
| CV                              | Check valve                                                                                                                                                                                                                                                                                                                                                                                        |
| PRV                             | Pressure reducing valve                                                                                                                                                                                                                                                                                                                                                                            |
| SV                              | Solenoid valve                                                                                                                                                                                                                                                                                                                                                                                     |
| MCP                             | Meter Connection Point                                                                                                                                                                                                                                                                                                                                                                             |



## 00 - EV1-1 (DA) AGD

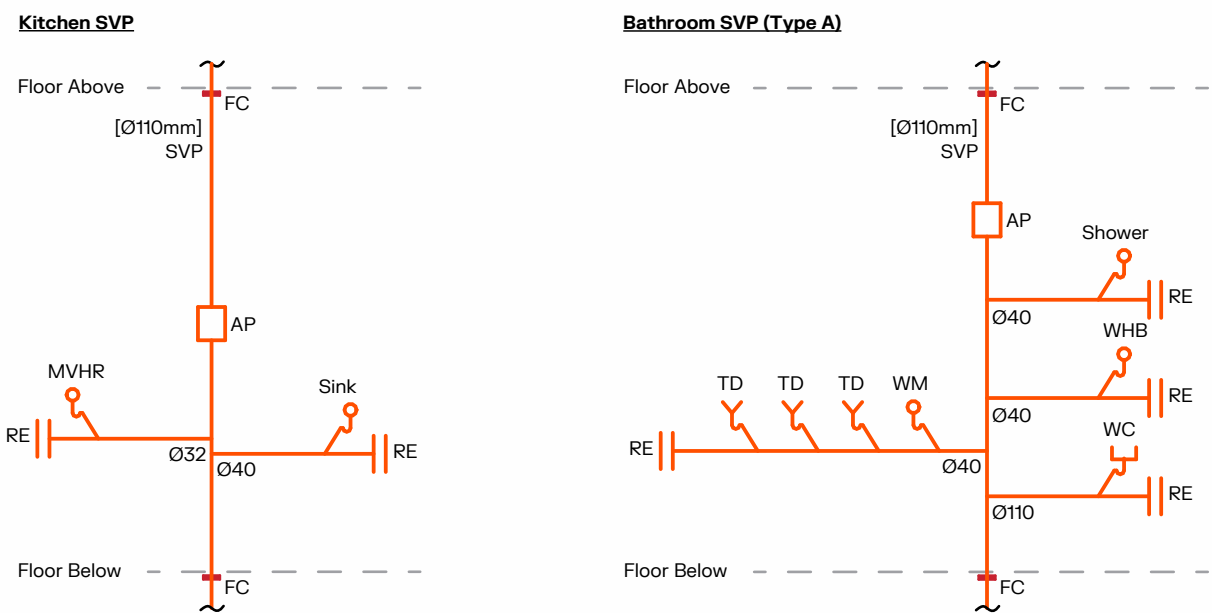
1 : 25

| AGD Notes:  |                                                                                                                                                                                                                                                                |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.          | The contractor shall examine the drawings and verify that the waste services comply with all accompanying M&E services drawings, specifications and schedules.                                                                                                 |
| 2.          | This drawing is to be read in conjunction with all accompanying M&E services drawings, specifications and schedules.                                                                                                                                           |
| 3.          | Do not scale from this drawing.                                                                                                                                                                                                                                |
| 4.          | Dimensions are in millimetres unless stated otherwise.                                                                                                                                                                                                         |
| 5.          | All soil and waste pipework shall be installed using 'Wavin Cusma' UPVC pipework and fittings. It shall be insulated and vapour sealed.                                                                                                                        |
| 6.          | Where pipework runs horizontally above ceilings, it shall be insulated and vapour sealed.                                                                                                                                                                      |
| 7.          | Where pipework runs horizontally above ceilings, it shall be insulated and vapour sealed.                                                                                                                                                                      |
| 8.          | The installation shall make at due allowance for thermal expansion and movement within the system and all pipework shall be securely fixed to the building structure with a proprietary bracketing system.                                                     |
| 9.          | The soil and waste pipework installation shall be tested upon completion to ensure soundness within all joints.                                                                                                                                                |
| 10.         | Wash hand basins shall be trapped with a 32mm soil trap, 75mm deep seal.                                                                                                                                                                                       |
| 11.         | Sinks shall be provided with 40mm trap, 75mm deep seal.                                                                                                                                                                                                        |
| 12.         | Showers shall be provided with 40mm trap, 50mm deep seal.                                                                                                                                                                                                      |
| 13.         | WCs shall be provided with 100mm trap, 50mm deep seal.                                                                                                                                                                                                         |
| 14.         | Condensate shall be provided with 75mm deep trap seal, 100mm air gap.                                                                                                                                                                                          |
| 15.         | Wash hand basins shall have a rodding access point to allow the above ground drainage system to be cleared in the event of blockage.                                                                                                                           |
| 16.         | All penetrations through fire walls to be adequately fire stopped by others on both side of wall via intumescent fire sleeves to BS 476. To be read in conjunction with architects fire strategy drawings for compartmentation and structural fire protection. |
| 17.         | Unless otherwise stated, final pipework connections to plumbing fixtures shall be as follows:<br>WC: Ø10mm<br>W/B: Ø32mm<br>Sinks: Ø40mm                                                                                                                       |
| 18.         | Water heater temp/pressure relief valve to be connected into waste pipework via tundish and Hepco waterless trap.                                                                                                                                              |
| 19.         | All SVPs, apart from those noted on the Roof Services layout, shall be topped via Durgal valves at their highest point within the building.                                                                                                                    |
| 20.         | Sanitaryware to be supplied by others complete with traps.                                                                                                                                                                                                     |
| AGD Legend: |                                                                                                                                                                                                                                                                |
| RE          | Rodding Eye                                                                                                                                                                                                                                                    |
| VP          | Vent Pipe                                                                                                                                                                                                                                                      |
| BGD         | Below Ground Drainage                                                                                                                                                                                                                                          |
| SVP         | Soil Vent Pipe                                                                                                                                                                                                                                                 |
| WHB         | Wash Hand Basin                                                                                                                                                                                                                                                |
| WM          | Washing Machine                                                                                                                                                                                                                                                |
| WC          | Water Closet                                                                                                                                                                                                                                                   |
| TD          | Tundish                                                                                                                                                                                                                                                        |
| FC          | Intumescent Fire Collar                                                                                                                                                                                                                                        |
| AP          | Access Panel                                                                                                                                                                                                                                                   |
| AAV         | Air Admittance Valve                                                                                                                                                                                                                                           |
| AG          | AAV Make-up Air Grille                                                                                                                                                                                                                                         |
| ---         | AGD Pipework at LL                                                                                                                                                                                                                                             |
| ---         | AGD Pipework at HL                                                                                                                                                                                                                                             |
| ---         | AGD Pipework within CV                                                                                                                                                                                                                                         |
| ●           | Connection to BGD                                                                                                                                                                                                                                              |



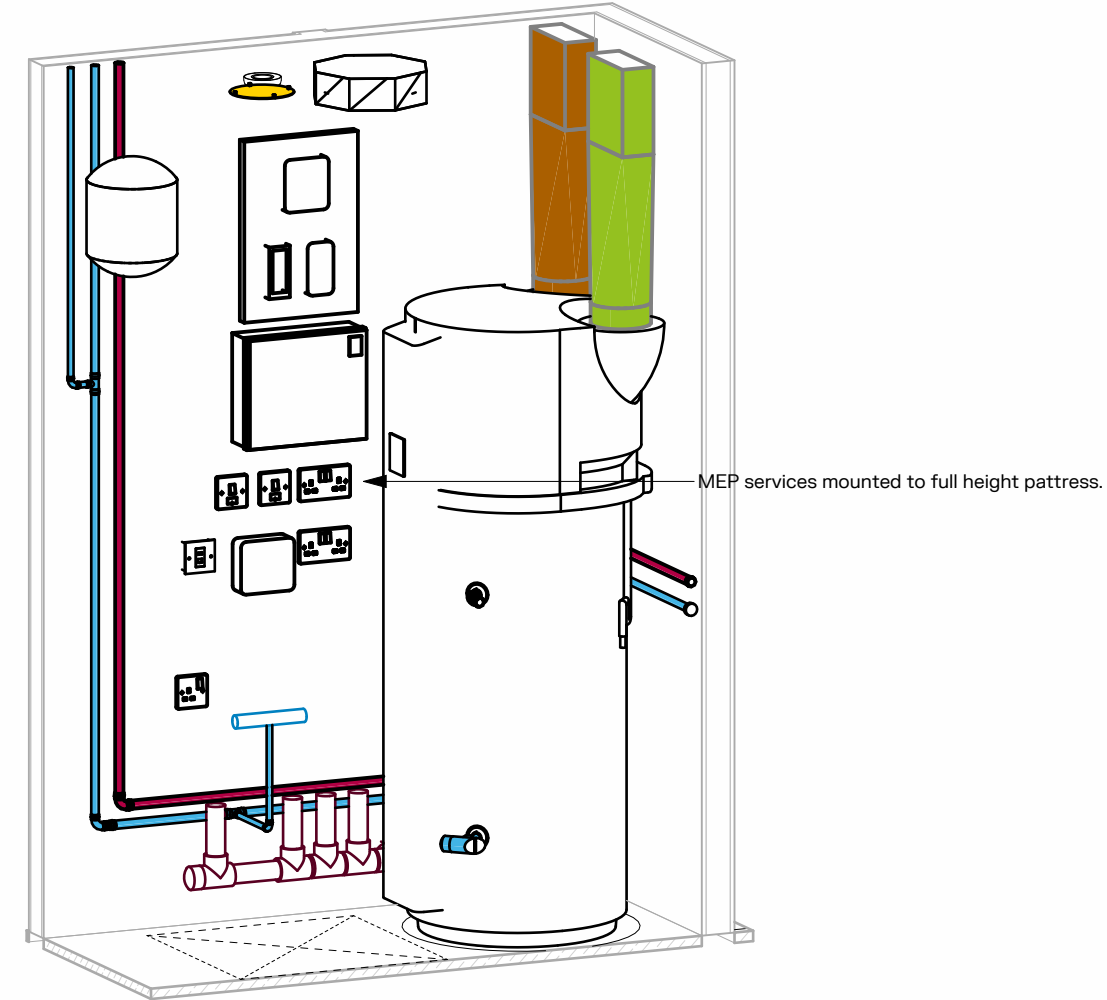
## Mechanical Schematic - Detail A1

| Plant - ASHP Schedule |              |          |            |                   |                 |                                |
|-----------------------|--------------|----------|------------|-------------------|-----------------|--------------------------------|
| Type Ref              | Manufacturer | Model    | Volume [l] | Sound Power Level | Dimensions [mm] | Max Electrical Power Input [W] |
| ASHP01                | Atlantic     | AHB76509 | 172        | 49                | 1700x600x895    | 2250                           |



## EV1-1(DA) - Incoming Services Section

1 : 10



## EV1-1 (DA) - Utility Cupboard

| Notes:                                                                     |                                                                                                                                                                           |          |                  |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------|
| 1.                                                                         | This drawing is to be read in conjunction with all accompanying M&E services drawings, specifications and schedules.                                                      |          |                  |
| 2.                                                                         | Do not scale from this drawing.                                                                                                                                           |          |                  |
| 3.                                                                         | Dimensions are in millimetres unless stated otherwise.                                                                                                                    |          |                  |
| 4.                                                                         | Height dimensions are to the bottom of accessories with the exception of the speech module, which is to the top.                                                          |          |                  |
| 5.                                                                         | Horizontal dimensions are to the centre of the accessory.                                                                                                                 |          |                  |
| 6.                                                                         | Dimensions are indicative, please refer to the architectural coordinated apartment drawings for specific measurements.                                                    |          |                  |
| 7.                                                                         | Partitions to be provided by other for the following:<br>A. Towel Heater<br>B. Utility Cupboard walls<br>C. Kitchen (except mid level where sockets/switches are located) |          |                  |
| AGD Legend:                                                                |                                                                                                                                                                           |          |                  |
| RE                                                                         | Rodding Eye                                                                                                                                                               |          |                  |
| VP                                                                         | Vent Pipe                                                                                                                                                                 |          |                  |
| BGD                                                                        | Below Ground Drainage                                                                                                                                                     |          |                  |
| SVP                                                                        | Soil Vent Pipe                                                                                                                                                            |          |                  |
| WHB                                                                        | Wash Hand Basin                                                                                                                                                           |          |                  |
| WM                                                                         | Washing Machine                                                                                                                                                           |          |                  |
| WC                                                                         | Water Closet                                                                                                                                                              |          |                  |
| TD                                                                         | Tundish                                                                                                                                                                   |          |                  |
| FC                                                                         | Intumescent Fire Collar                                                                                                                                                   |          |                  |
| AP                                                                         | Access Panel                                                                                                                                                              |          |                  |
| AAV                                                                        | Air Admittance Valve                                                                                                                                                      |          |                  |
| AG                                                                         | AAV Make-up Air Grille                                                                                                                                                    |          |                  |
| ---                                                                        | AGD Pipework at LL                                                                                                                                                        |          |                  |
| ---                                                                        | AGD Pipework at HL                                                                                                                                                        |          |                  |
| ---                                                                        | AGD Pipework within CV                                                                                                                                                    |          |                  |
| ●                                                                          | Connection to BGD                                                                                                                                                         |          |                  |
| Revisions                                                                  |                                                                                                                                                                           |          |                  |
| CO2                                                                        | Revised DWS pipework arrangement                                                                                                                                          | 14-01-25 |                  |
| CO1                                                                        | Construction Issue                                                                                                                                                        | 07-10-24 |                  |
| PO1                                                                        | Initial Issue                                                                                                                                                             | 27-08-24 |                  |
| Number                                                                     | Description                                                                                                                                                               | Date     |                  |
| Revisions                                                                  |                                                                                                                                                                           |          |                  |
| Elecomm                                                                    |                                                                                                                                                                           |          |                  |
| Status                                                                     |                                                                                                                                                                           |          |                  |
| A1 - Construction                                                          |                                                                                                                                                                           |          |                  |
| Client                                                                     |                                                                                                                                                                           |          |                  |
| McCarthy Stone<br>Life, well lived                                         |                                                                                                                                                                           |          |                  |
| Project                                                                    |                                                                                                                                                                           |          |                  |
| MCS Kinky                                                                  |                                                                                                                                                                           |          |                  |
| Drawing Title                                                              |                                                                                                                                                                           |          |                  |
| Apartment Type EV 1-1 (DA) Domestic Water Services & Above Ground Drainage |                                                                                                                                                                           |          |                  |
| Drawing Number                                                             |                                                                                                                                                                           |          |                  |
| EV02039-LE-APL-XX-DRM-0010                                                 |                                                                                                                                                                           |          |                  |
| Rev.                                                                       |                                                                                                                                                                           |          |                  |
| Rev.                                                                       | Designed                                                                                                                                                                  | Checked  | Scale            |
| CO2                                                                        | HN                                                                                                                                                                        | MD       | As Indicated @A0 |
| copyright © Ratings                                                        |                                                                                                                                                                           |          |                  |