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|--------------|--|---|---|
| Proj Name | Housing at 14 & 15 Dean McNamara Place |  | Cork County Council |
| Proj Address | Newtownshandrum | | Engineering Design Team, Housing Directorate, |
| Proj No. | N2022023 | | County Hall, Cork |
| Proj Status | Planning | | tel - 353 086 0849134 email - john.fleming@corkcoco.ie |



Drawings

| | | | | | | | | | | |
|---------------|--------------|-------------|--|-------|------|--|--|--|--|--|
| Proj Engineer | John Fleming | Issued by - | Engineering Design Team (EDT) Mech & Elec | DSD | | | | | | |
| | | | | day | 5 | | | | | |
| | | | | month | 10 | | | | | |
| | | | | year | 2023 | | | | | |

| Drg Reference & Drg No. | Drawing Title | Scale | Sheet | | | | | | |
|-------------------------|--|-------|-------|---|--|--|--|--|--|
| DR-CCC-ME-PL-1001 | General Services | N/A | A3 | √ | | | | | |
| N2022023-DR-ME-PL-120 | Site Services M&E | 1:250 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-200 | Electrical Layout Ground Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-201 | Electrical Layout First Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-202 | Electrical Layout Ground Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-203 | Electrical Layout First Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-216 | Lights & Fire Alarm Ground Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-217 | Lights & Fire Alarm First Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-218 | Lights & Fire Alarm Ground Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-219 | Lights & Fire Alarm First Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-241 | Mechanical Services Ground Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-242 | Mechanical Services First Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-243 | Mechanical Services Ground Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-244 | Mechanical Services First Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-256 | Drains & Ducting Services Ground Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-257 | Drains & Ducting Services First Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-271 | MEV Services Ground Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-272 | MEV Services First Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-273 | MEV Services Ground Floor 14 & 15 | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-274 | MEV Services First Floor | 1:50 | A3 | √ | | | | | |
| N2022023-DR-ME-PL-286 | Attic | 1:50 | A3 | √ | | | | | |

Purpose Of Issue

| | | | | |
|---------------------------------------|---|--|--|--|
| Stage I - Submission | | | | |
| Stage II - Appointment of Consultants | | | | |
| Stage II - Project Design | | | | |
| Stage II -Submission | | | | |
| 179A system | X | | | |
| Stage III - Tender BoQ | | | | |
| Stage III - Submission DOE,C&LG | | | | |
| Stage III - Tender | | | | |
| Stage IV - Working Drawings | | | | |
| Stage IV - As Built | | | | |

Distribution

| Name | Company/Individual | copies |
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ESB

- The service pole and the complete run of the duct are both within the site boundary. ESNB's Engineering Office will confirm the service pole position and the ducting route on-site.
- An outdoor meter cabinet, to ESI Standard 12-3 (1986), is installed in a suitable location.
- An ESNB approved "hockey stick" is installed at the meter cabinet position.
- Red ESNB approved 50mm service ducting is installed at a minimum depth of 600mm between the hockey stick position and the service pole. Yellow ESB cable warning tape must be installed at a maximum depth of 300mm below ground level along

- the full length of the duct.
- Corrugated Ducting of any colour is not permitted.
 - The duct shall be as straight as possible and free of sharp bends.
 - A continuous and strong 10mm polypropylene draw rope is installed in the duct. It must be free of knots and secured at both ends of the duct.

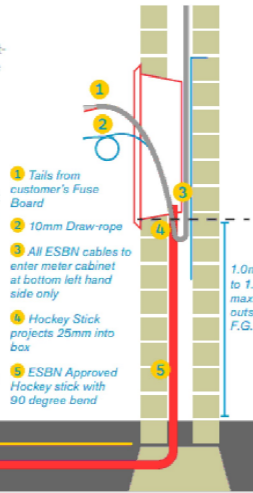
Notes:

- It is essential that the ESNB cable does not come into contact with the cavity insulation. Allow a projection of 25mm of the hockey stick into the base of the cabinet.
- There must be a minimum clearance of 100mm between

- the service duct and other services on the house-holder's property.
- ESNB will provide black UV light-resistant ducting from below the finished ground level to the top of the service pole.
 - For poles more than 50m away from the cabinet, 125mm red ESNB approved ducting shall be used. An ESNB approved service vault shall be required at the junction of the duct and the hockey stick.
 - The entry point of the service hockey stick into the metering cabinet must be sealed to stop ingress of water.

Connection will only be made after all above requirements are met.

For full details refer to The National Code of Practice for Customer Interface at www.esb.ie/esbnetworks/ncp



ESB

LOCATION AND INSTALLATION OF METERING CABINET for Standard Non-scheme Domestic Connection

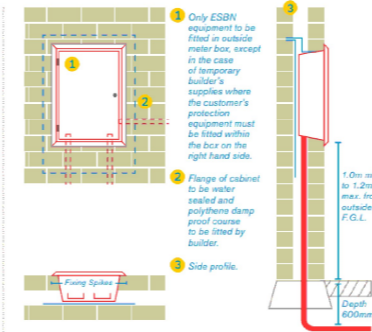
LOCATION

- An outdoor meter cabinet must be provided for the ESNB Networks' (ESNB) electricity meter(s).
- The meter cabinet must be directly accessible from the main entrance driveway. A position on the house wall facing the driveway, or within 2m of either corner of this wall is normally acceptable subject to proper access.
- If any further queries remain in relation to the location of the cabinet, please discuss them with your local ESNB representative.

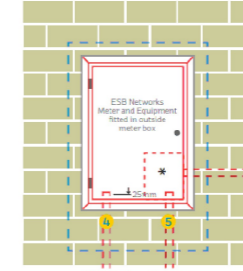
PLEASE NOTE:
 • Unacceptable positions will not be connected (these include behind security walls/gates or in porches)
 • Damaged cabinets will not be connected.
 • Meter cabinet must comply with ESNB specifications

If you need a meter cabinet key to access your outdoor meter cabinet please call us at 1850 372 757

INSTALLATION



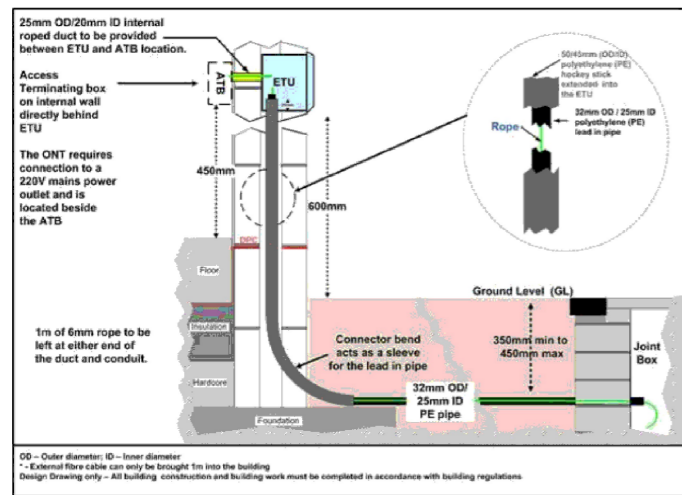
CUSTOMER TAILS



- Cable entry and tails must be through the bottom of the box, with the ESNB cables to the left and the customer tails to the right.
- Customer tails may also enter through a drilled hole at the bottom right hand side of the box.

EIR

Where a New house is being built an ETU must be inserted in the external wall at a convenient location in accordance with the building regulations shown in Fig 3 below.



GAS

1.2 How a New Gas Meter is Installed

A GNI approved contractor will lay and test the gas connection pipe/service pipe in the pre-excavated trench provided by the builder and a top tee connection is made to the main in the path or road as appropriate. The gas connection pipe shall have sand surround and be reinstated as soon as practicable in order to reduce the possibility of external damage on site. Normally 32mm (low pressure) size polyethylene connection pipe and 25mm (medium pressure) size polyethylene connection pipe is used.

A gas connection pipeline is laid by Gas Networks Ireland connecting a building to the natural gas network. The natural gas connection pipeline must be laid in a straight line to the meter location, using the shortest most direct route and where possible at right angles to the gas main. An illustration of this is shown in figure 1.

Marker tape should be placed over all gas mains, gas connections and ducting intended for gas distribution pipes.

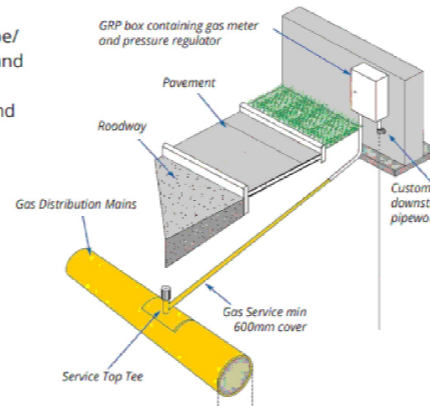
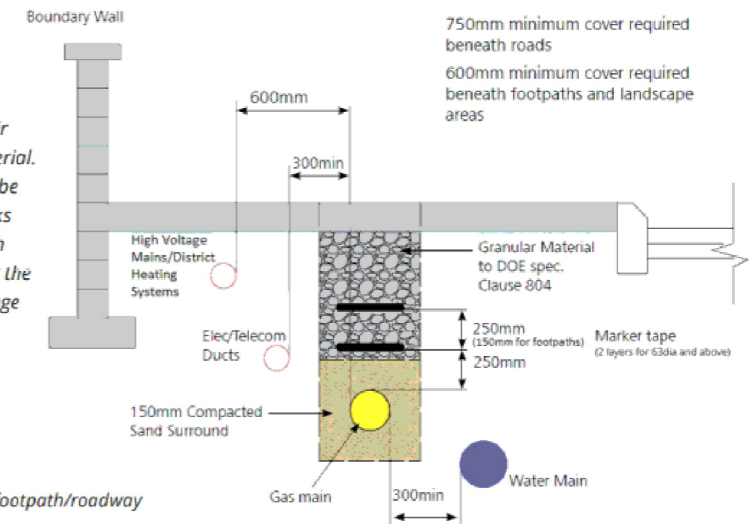


Figure 1: Connection from Gas Main to Residential Meter Box

GAS

N.B. Contractors/Builders must provide their own sand surround and reinstatement material. The main or connection/service pipe must be covered in surround before the Gas Networks Ireland contractor leaves the site. The trench must be reinstated as soon as possible after the pipe is laid to reduce the possibility of damage to the gas pipes.

Figure 2: Recommended gas main layout in a footpath/roadway



GAS

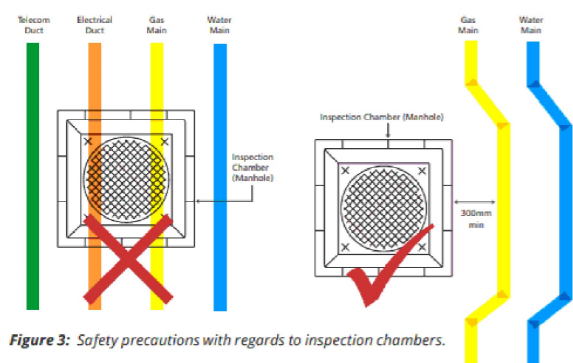


Figure 3: Safety precautions with regards to inspection chambers.

- Note:
- Polyethylene mains and services may not be positioned within the Building Line (as defined by I.S. 329 / I.S. 265).
 - For more detailed information always refer to the Gas Networks Ireland Distribution drawings specific to the project.

GAS

Where to locate your meter

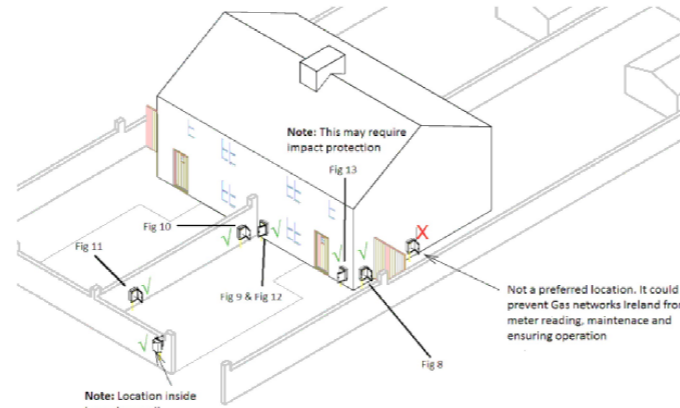


Figure 7: Diagram of possible Meter Locations for a domestic property.

GAS

Where to locate your meter

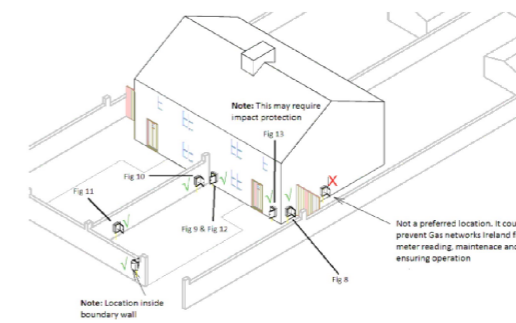
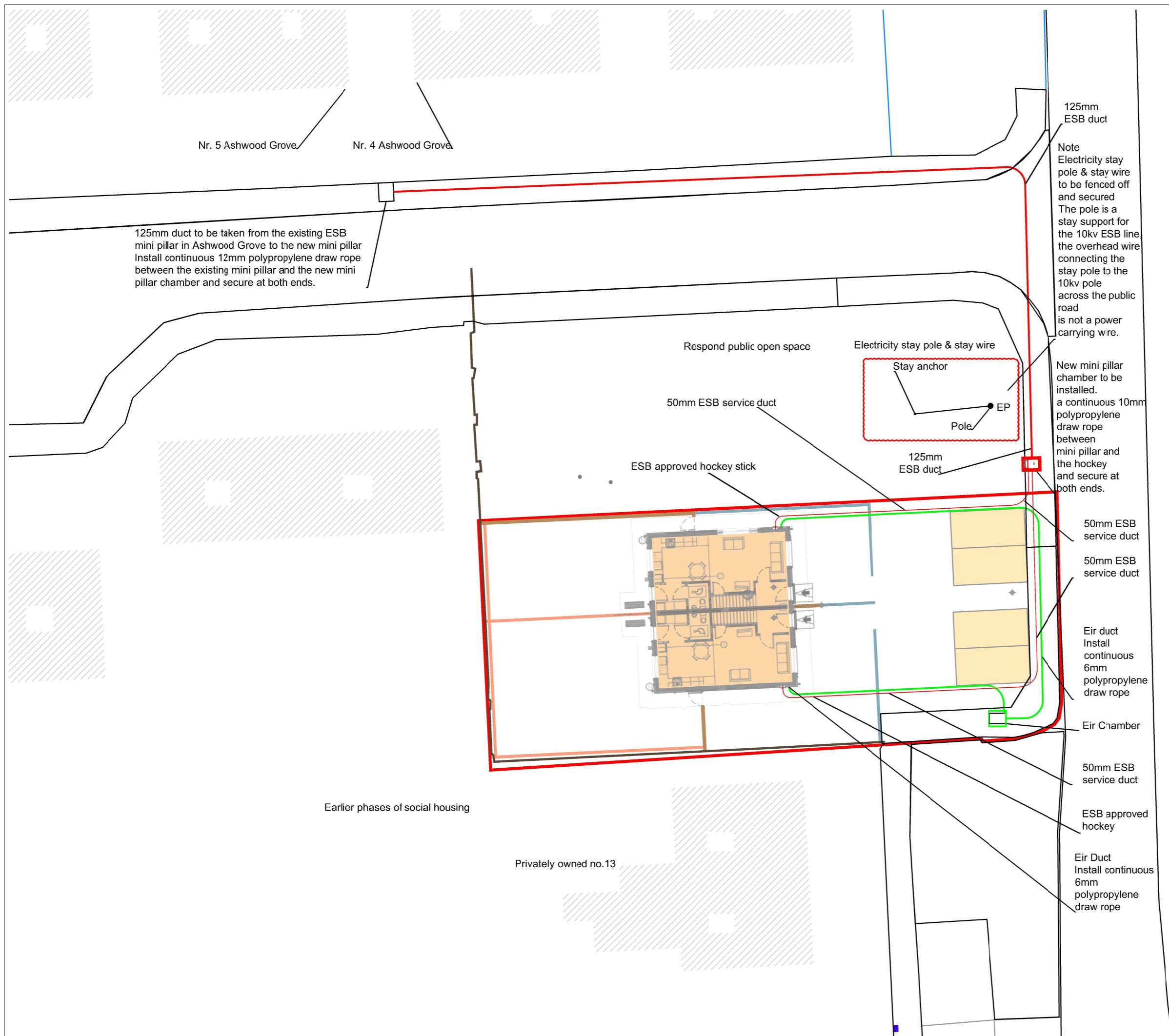













Figure 7: Diagram of possible Meter Locations for a domestic property.

| Rev. No. | Revision Description | Date |
|--|----------------------|------|
| | | |
| Project Stage: Tender | | |
| Project Title: Housing Development General Services/Utilities | | |
| Drawing Title: General Services | | |
| Comhairle Contae Chorcaí Ailtirí Stiúrthóireacht Tithíochta Cork County Council Architects Housing Directorate County Hall, Cork Tel: (021) 4285433 e-mail: architects.housing@corkcoco.ie | | |

| | |
|---|---|
| Job Reference: Genera Services/Utilities | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-WD-205_1001 | Sheet: A3 |
| Date: Feb. 23 | Scale: 1:50 |
| Issue for: Tender | |

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-  MP Minipillar
-  MMP Micropillar
-  125mm ESB supply duct
-  50mm ESB service duct
-  110mm EIR service duct
-  EIR JB4 inspection chamber
-  Public lighting service duct
-  Public light
-  ESB pole
-  ESB POLE
-  JB 26 Chamber

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| Rev. No. | Revision Description | Date |
|-------------------------|----------------------|------|
| Project Stage: Planning | | |

| |
|---|
| Project Title: 14 & 15 Dean Mccramara Place, Newtownshandrum |
|---|

| |
|-------------------------------------|
| Drawing Title: Site Services M&E |
|-------------------------------------|

 **Conhairle Contae Chorcaí**
 Tógáil Chaipitil | Stiúthóireacht Tithíochta
Cork County Council
 Capital Construction | Housing Directorate

County Hall, Cork
 Tel: (021) 4276891

| | | |
|------------------------------|-------------------|---|
| Job Reference: N2022023 | Sheet: A3 | Design Team: Engineer: Technician: Snr. Engineer: K. Jones |
| Dwg. No.: DR-CCC-ME-P-120 | Date: Oct.2023 | Scale: 1:250 |
| Date: Oct.2023 | Scale: 1:250 | Issue for: Planning |

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Legend, Electrical Services

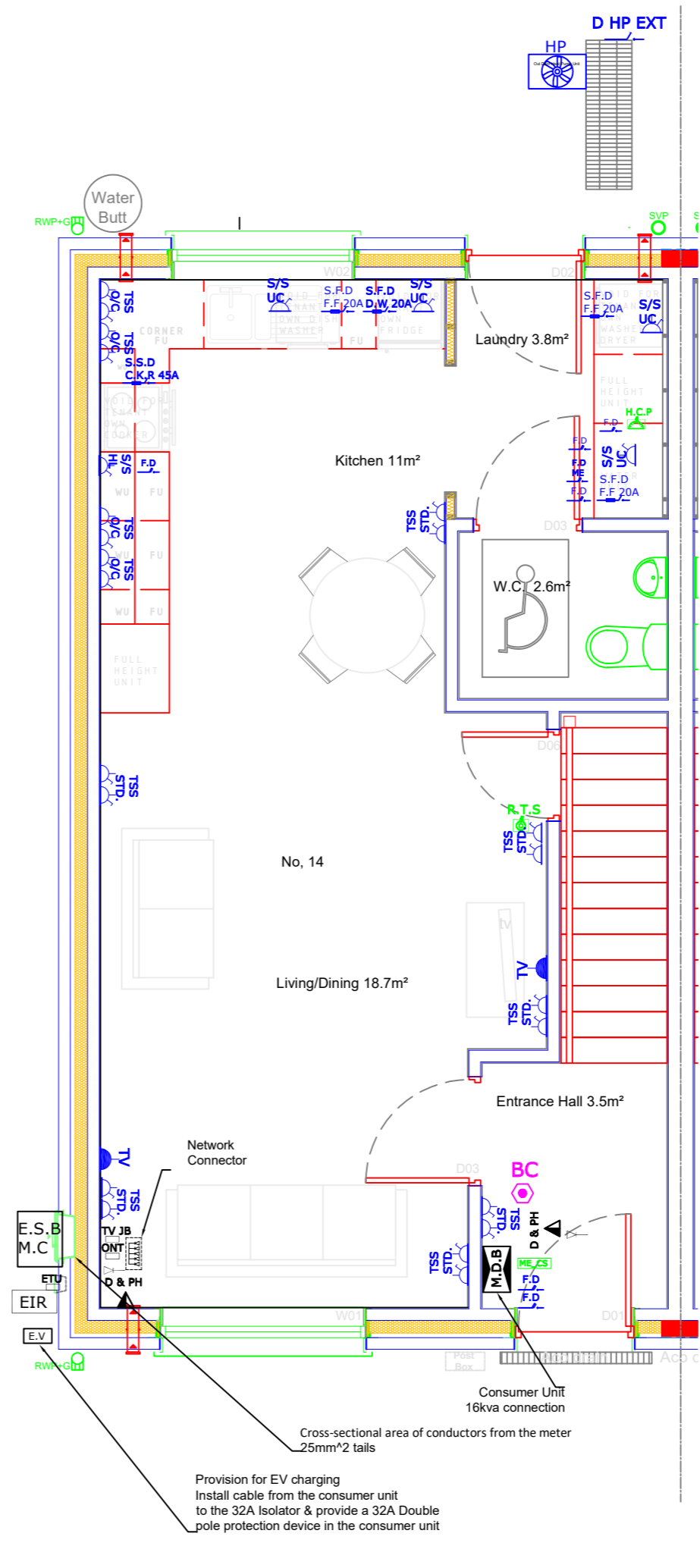
- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
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- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

The electrical equipment used in this install shall comply with the European product standard(s) which includes I.S. EN, HD or an I.S. implementing HD, in absence of these standards the following appropriate standard(s) shall apply: Irish Standards (I.S.), or IEC standards not approved in CENELEC; or national standard(s) of another country. Where there are no applicable standards, the item concerned shall be selected by special agreement between the persons specifying the installation and the installer. The resulting degree of safety of the installation shall not be less than obtained by compliance with I.S. 10101 (2020).

Distribution boards/consumer unit manufactured from materials complying EN 61439, erected at a height not greater than 2.15m to the top of the highest protective device, to include 2 pole isolation switch, over current protection, surge protection, arc fault detection.

Proposed layout consumer/distribution board for 14 & 15 Newtownshandrum 16kva connection

| Arc Fault detection devices to be used | | | | | | | | | | | | |
|--|----------------------|-----------------------|-------------------------|-------------------------|---|-----------------------------|------------------------------------|-------------------------|---------------------------|---------------------------------|--|--|
| Main Isolating Switch 2 Pole | Surge Protection | 63A RCD | 20A MCB Kitchen Sockets | 20A MCB Kitchen Sockets | 20A MCB Utility Room Sockets | 20A MCB Living Room Sockets | 20A MCB Hall, Landin Store Sockets | 20A MCB Bedroom Sockets | 20A MCB Bedroom Sockets | Double Pole 32A RCD EV Charging | | |
| 32A MCB Cooker | 32A RCBO HP Out Door | 20A RCBO Booster Pump | 20A RCBO Fridge | 10A RCBO Heat CTRL | 10A RCBO Kitchen Dining Utility External Lights | 10A RCBO Bed Room Lights | 10A RCBO Bed Room Lights | 10A RCBO Landing Lights | 6A RCBO Fire Alarm D Bell | 6A RCBO MEV | | |



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- Notes
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 - All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
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Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

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| Rev. No. | Revision Description | Date |
|----------|----------------------|------|
| | | |

Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Electrical Layout Ground Floor

Comhairle Contae Chorcaí
Ailbhirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

| | |
|----------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC, Technician: TOF |
| Dwg. No.: DR-CCC-ME-PL-200 | Surveyor: JF, Engineer: JF, Sr. Architect: R. Henry |
| Date: Oct.2023 1:50 | Scale: Planning, Sheet: A3 |



Legend, Electrical Services

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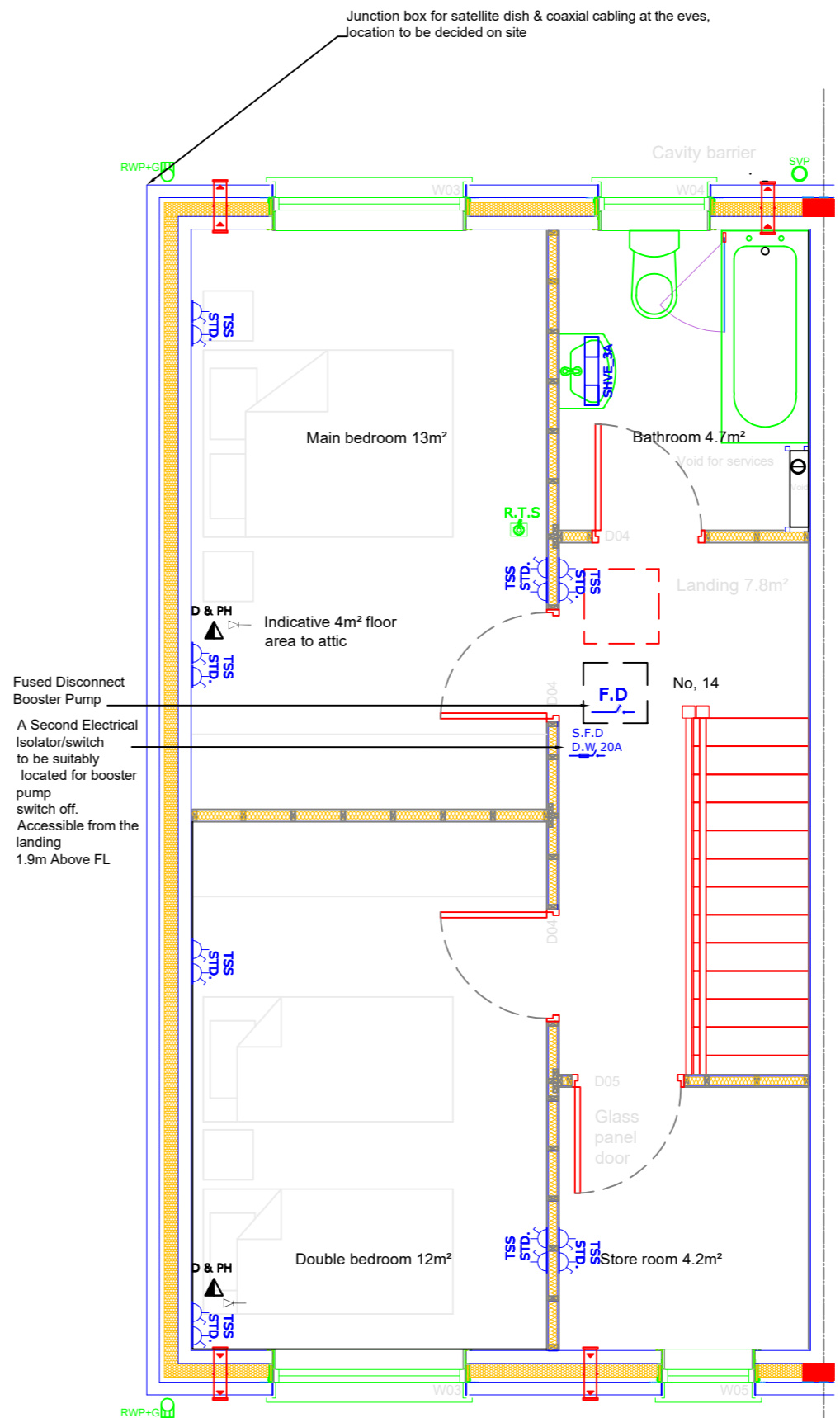
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| Rev. No. | Revision Description | Date |
| | | |

Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Electrical Layout First Floor

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
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| Dwg. No.: DR-CCC-ME-PL-201 | Sheet: A3 |
| Date: Oct. 2023 1:50 | Scale: Planning |
| Issue for: Planning | Rebuilding Ireland |

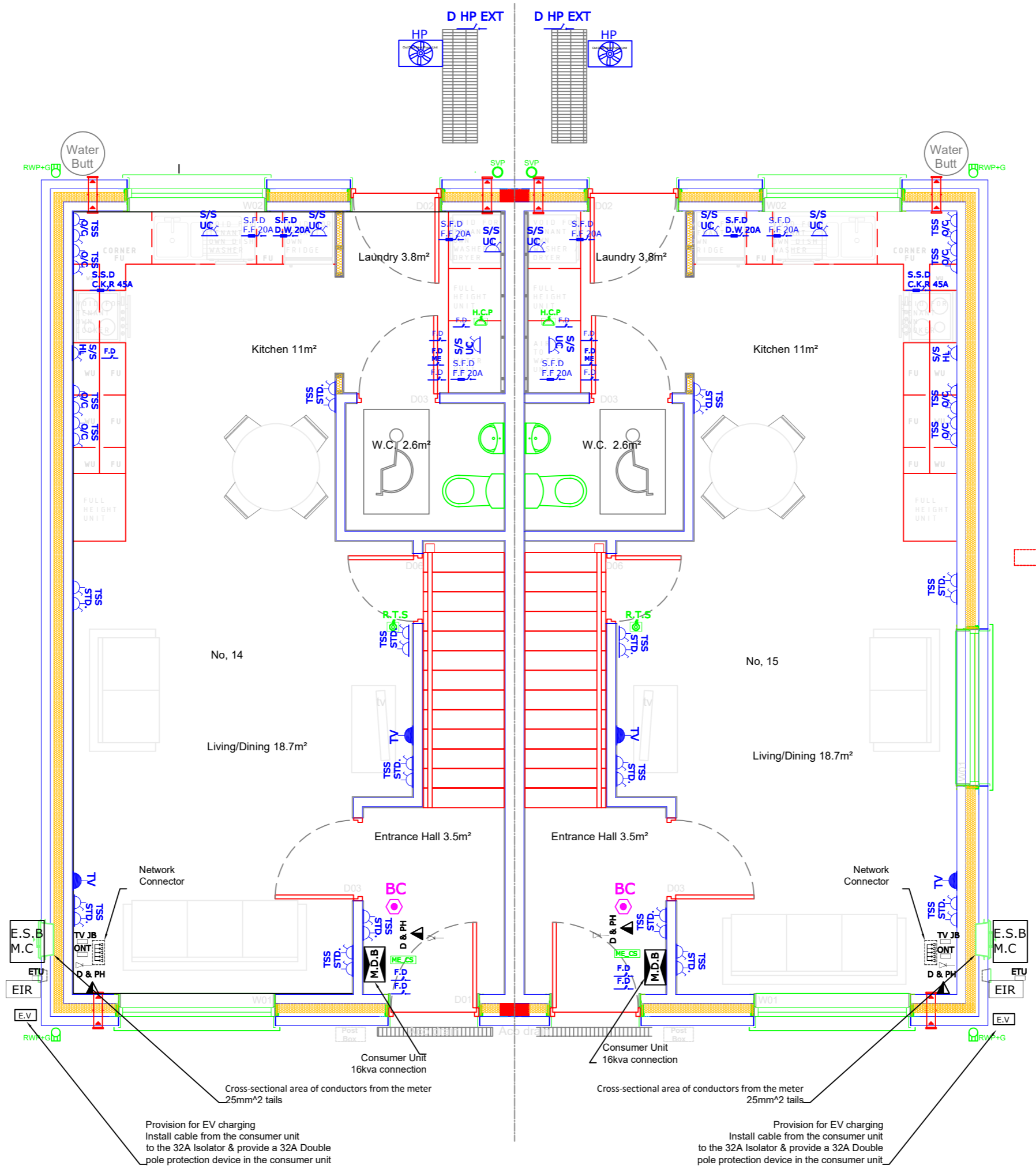
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| Rev. No. | Revision Description | Date |
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Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Electrical Layout Ground Floor 14 & 15

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@ corkcoco.ie

| | |
|----------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC, Technician: TOF, Engineer: JF, Snr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-202 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |



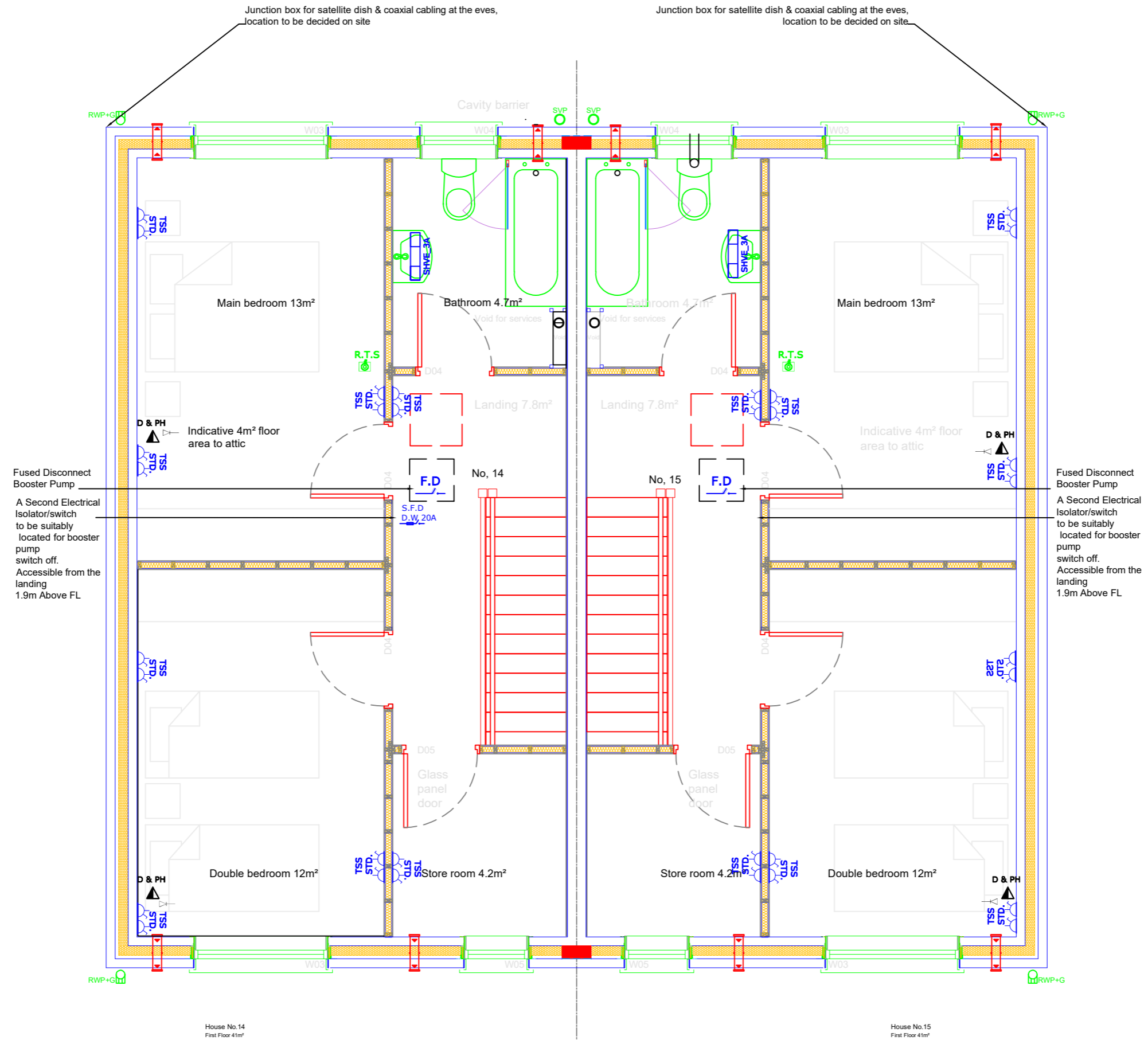
Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
- Single Switched Socket 400mm FFL, Under Counter
- Double Switched Socket 400mm FFL
- Double Switched Socket 1200mm FFL
- Double Switched Socket Under Counter 400mm FFL
- Switched Fused Disconnection (Spur)
- Switched Fused Disconnection (Spur) 16A
- Switched Fused Disconnection (Spur) Dish Washer 20A
- Fused Disconnection (Spur) Booster Pump
- Isolator Heat Pump EXT
- Fused Disconnection (Spur) 45A Shower
- Switched Disconnection (Spur) 45A, Cooker
- Data & Telephone
- TV Junction Box
- Access Terminating Box
- Data & Telephone Box
- Fibre Terminal Box
- Data Patch Panel
- Data Point
- External Terminating Unit
- Heating control unit
- Room temperature stat
- Telephone
- TV socket
- Motorised Valve
- Switch 1 Gang 1 Way
- Switch 1 Gang 2 Way
- Switch 2 Gang 1 Way
- Switch 3 Gang 1 Way
- Door Bell Push Button
- Door Bell Chime
- Shaver Light
- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

- NOTE:
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 4. FOR ANY DISCREPANCIES FOUND, CONSULT WITH DESIGN OFFICE.
 5. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL SPECIFICATION DOCUMENTS.

- Notes
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 5. All exposed wastes, traps and supports within the toilet area must be metal manufacture and chrome plated
 6. Access/inspection covers at the base of stacks above floor level.

Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services



House No. 14
First Floor 41m²

House No. 15
First Floor 41m²

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| | | |

| Rev. No. | Revision Description | Date |
|----------|----------------------|------|
|----------|----------------------|------|

Project Stage: Planning

Project Title:
14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title:
Electrical Layout First Floor 14 & 15

Comhairle Contae Chorcaí
Ailbhir | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

| | |
|-------------------------------|--|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RJB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-203 | Sheet: A3 |
| Date: Oct. 2023 1:50 | Scale: Planning |
| Issue for: | Rebuilding Ireland |

Legend, Electrical Services

- Single Switched Socket 400mm FFL
- Single Switched Socket High Level, Extractor Fan
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- Switch 1 Gang 2 Way
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- Smoke Head
- Heat Detector
- Carbon monoxide detector
- Fire Alarm Control Switch
- Mechanical Extraction Control Switch
- External Temperature Sensor
- Ceiling Rose
- LED Bulk Fitting Head External
- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

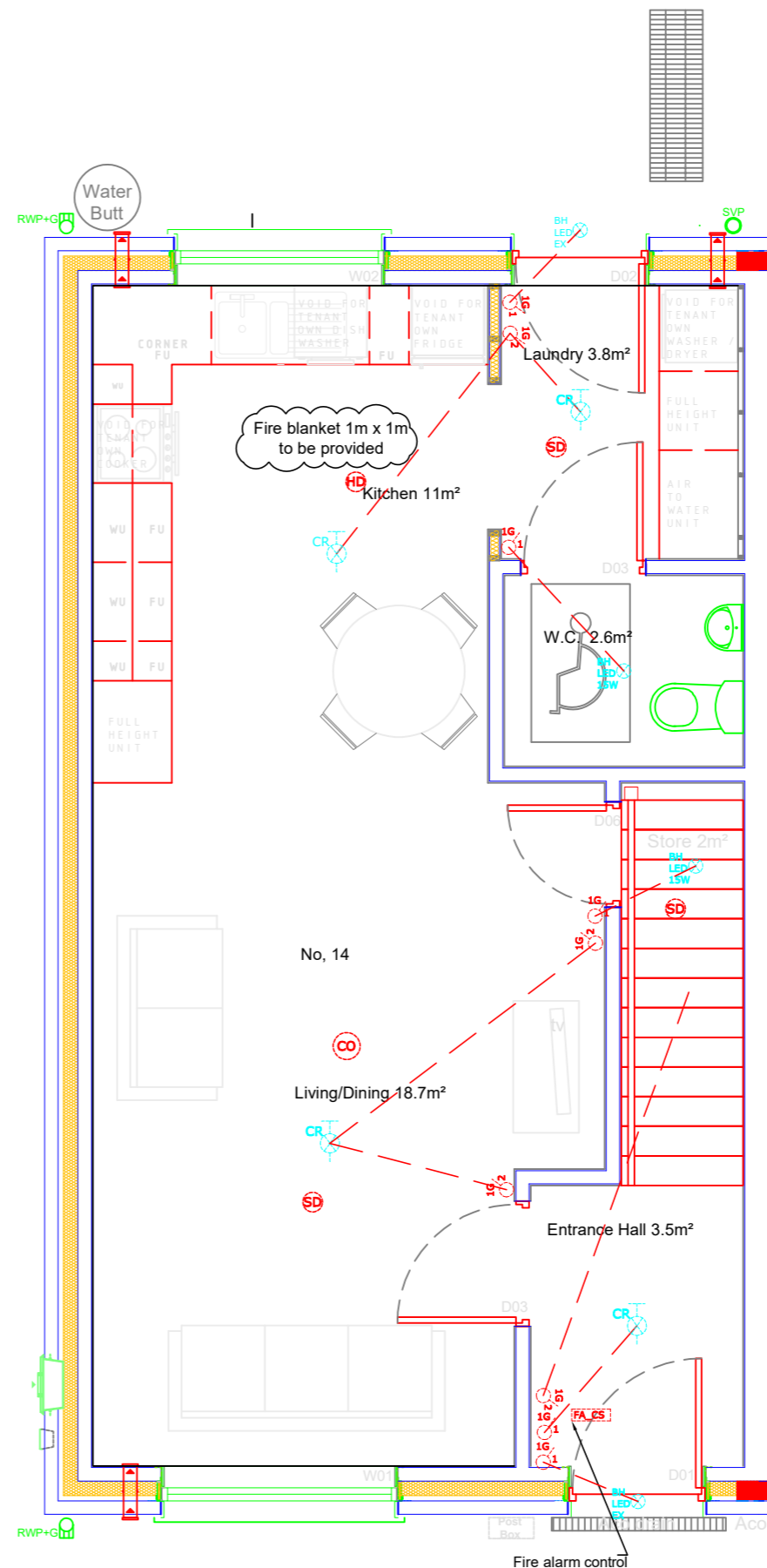
- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel

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Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services



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| Rev. No. | Revision Description | Date |
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Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Lighting & Fire Alarm Ground Floor

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

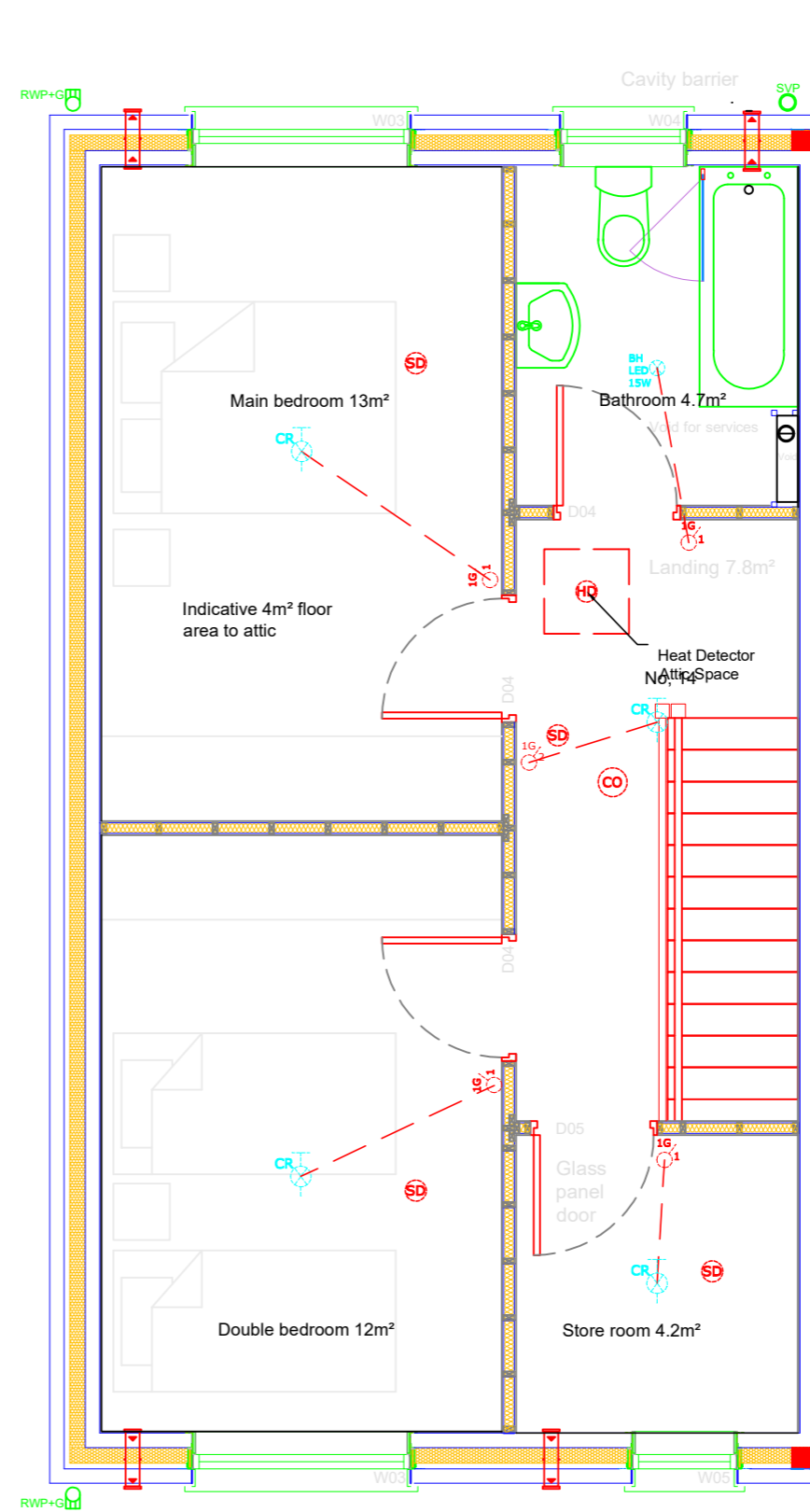
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|-------------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: JF Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-216 | Sheet: A3 |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | |

Legend, Electrical Services

- Single Switched Socket 400mm FFL
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- External Temperature Sensor
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- LED Bulk Fitting Head Internal
- Main Distribution/Consumer Unit
- ESB Meter Cabinet
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Legend, Intruder Alarm

- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel



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Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

| | | |
|----------|----------------------|------|
| Rev. No. | Revision Description | Date |
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| | | |

Project Stage: Planning

Project Title:
14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title:
Lighting & Fire Alarm First Floor

Comhairle Contae Chorcaí
Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
Architects | Housing Directorate
County Hall, Cork
Tel: (021) 4285433
e-mail: architects.housing@corkcoco.ie

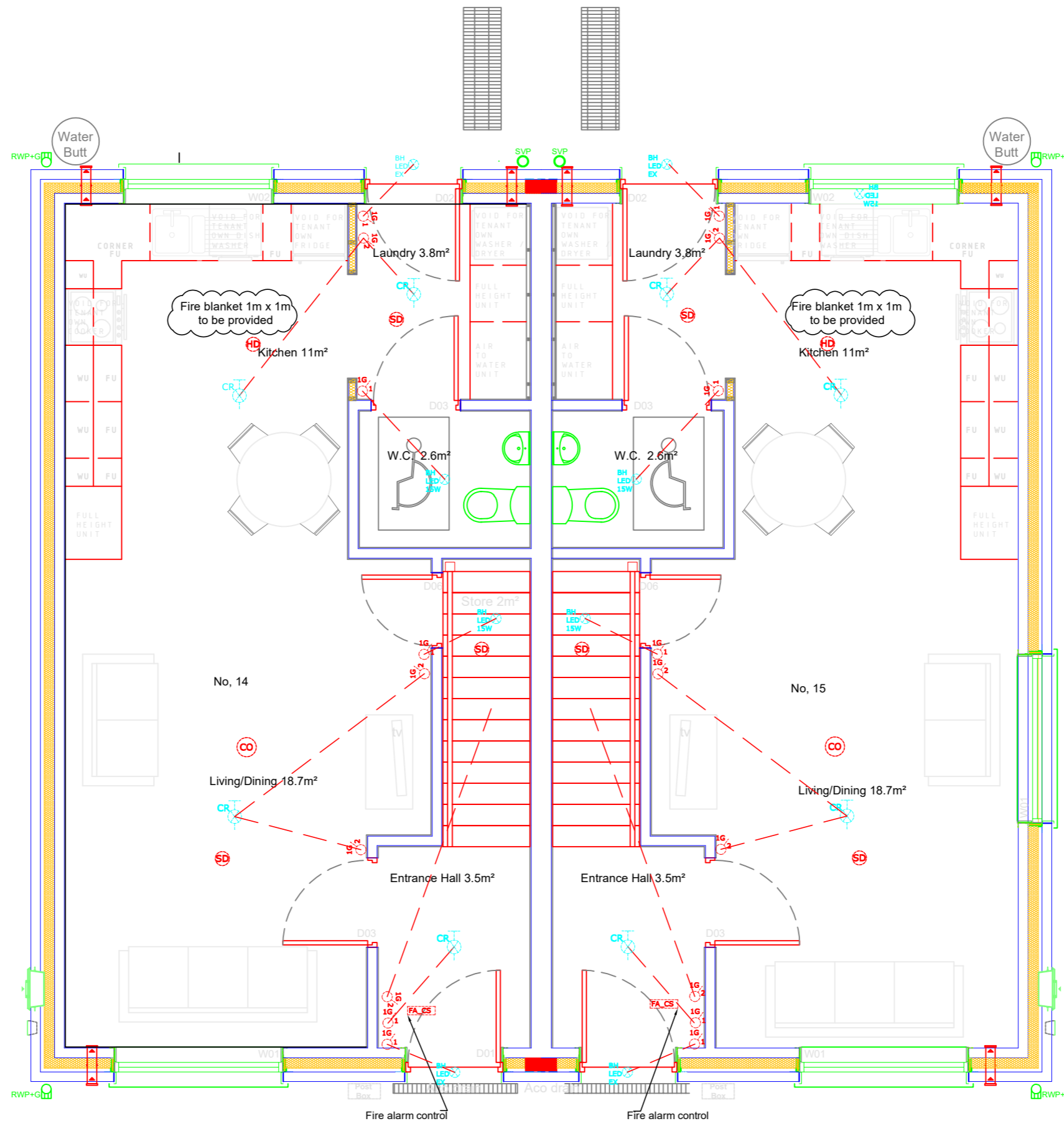
| | |
|-------------------------------|--|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: JFB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-217 | Sheet: A3 |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | |

Legend, Electrical Services

- Single Switched Socket 400mm FFL
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- LED Bulk Fitting Head External
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- Main Distribution/Consumer Unit
- ESB Meter Cabinet
- EIR Incoming
- Electric Vehicle Charging Point, Isolator & Charger complete with DCL Protection

Legend, Intruder Alarm

- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel



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Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

| | | |
|----------|----------------------|------|
| Rev. No. | Revision Description | Date |
| | | |

Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Lighting & Fire Alarm Ground Floor 14 & 15

Comhairle Contae Chorcaí
 Ailtirí | Stiúrthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

| | |
|----------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: JF Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-218 | |
| Date: Oct.2023 1:50 | Scale: Planning |
| | Sheet: A3 |

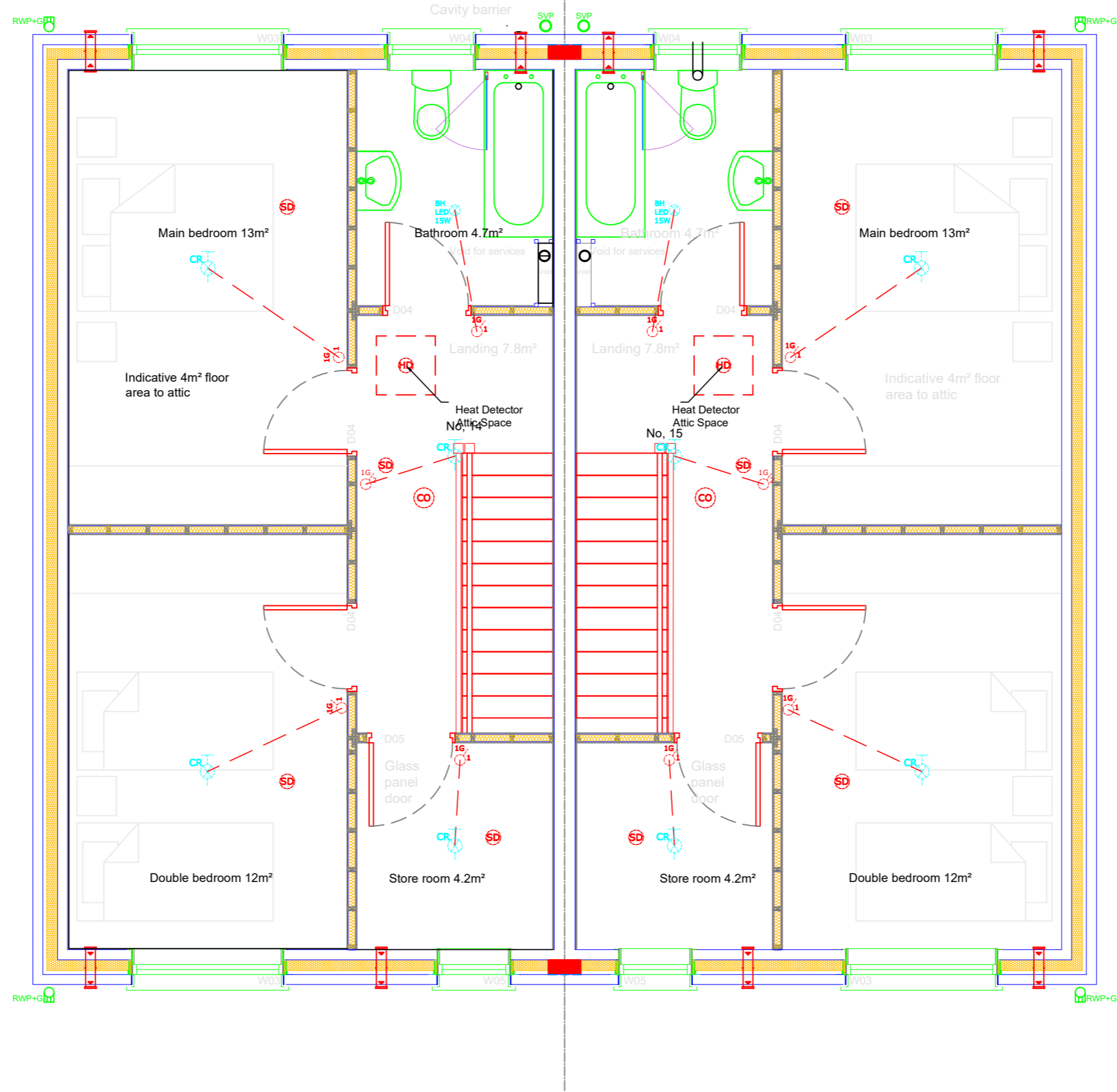


Legend, Electrical Services

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Legend, Intruder Alarm

- Sounder
- Strobe Sounder
- Door/Window Contact
- Intruder Alarm Panel



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 The drawings detail the functional requirements and arrangements of the services

| | | |
|----------|----------------------|------|
| Rev. No. | Revision Description | Date |
| | | |

Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Lighting & Fire Alarm First Floor 14 & 15

Comhairle Contae Chorcaí
 Ailtirí | Stúirthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

| | |
|-------------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-219 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |



Legend, Mechanical Services

- Incoming Potable Water
- Potable Water
- Stored Water Cistern & Booster Pump
- Motorised Valve
- Cold Water Stored
- Potable Water
- Hot Water
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 32mm
- Waste U Bend 40mm
- Thermostatic Bar Shower Mixer Valve
- Heat Emitter (Radiator)
- Calorifier
- Outdoor Unit

Heat loss and emitters have been sized to S.R. 50-1 2021NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems in Dwellings and Heat loss calculation and radiator sizing for heat pump systems (SEAI)
 The flow temperature of heat pump is calculated at around 45°C with a return temperature of 40°C, the heat emitters detailed in the drawing have been sized using a conversion factor and a typical emitter manufacturer with a ΔT of 50°C, the contractor should obtain conversion factors for low temperature emitters from the supplier/manufacturer and agree with the engineer. Higher out put emitters (increased fins and surface area) influence the final size selection.

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 85 m2 at 0.3 l/s/m2 (0.3 x 85) = 25.45 l/s

General ventilation rate of the dwelling is the greater of the above = 25.5 l/s

Continuous extract ventilation rate of the dwelling is: 25.5 l/s
 Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Toilet + Bathroom l/s = 27l/s

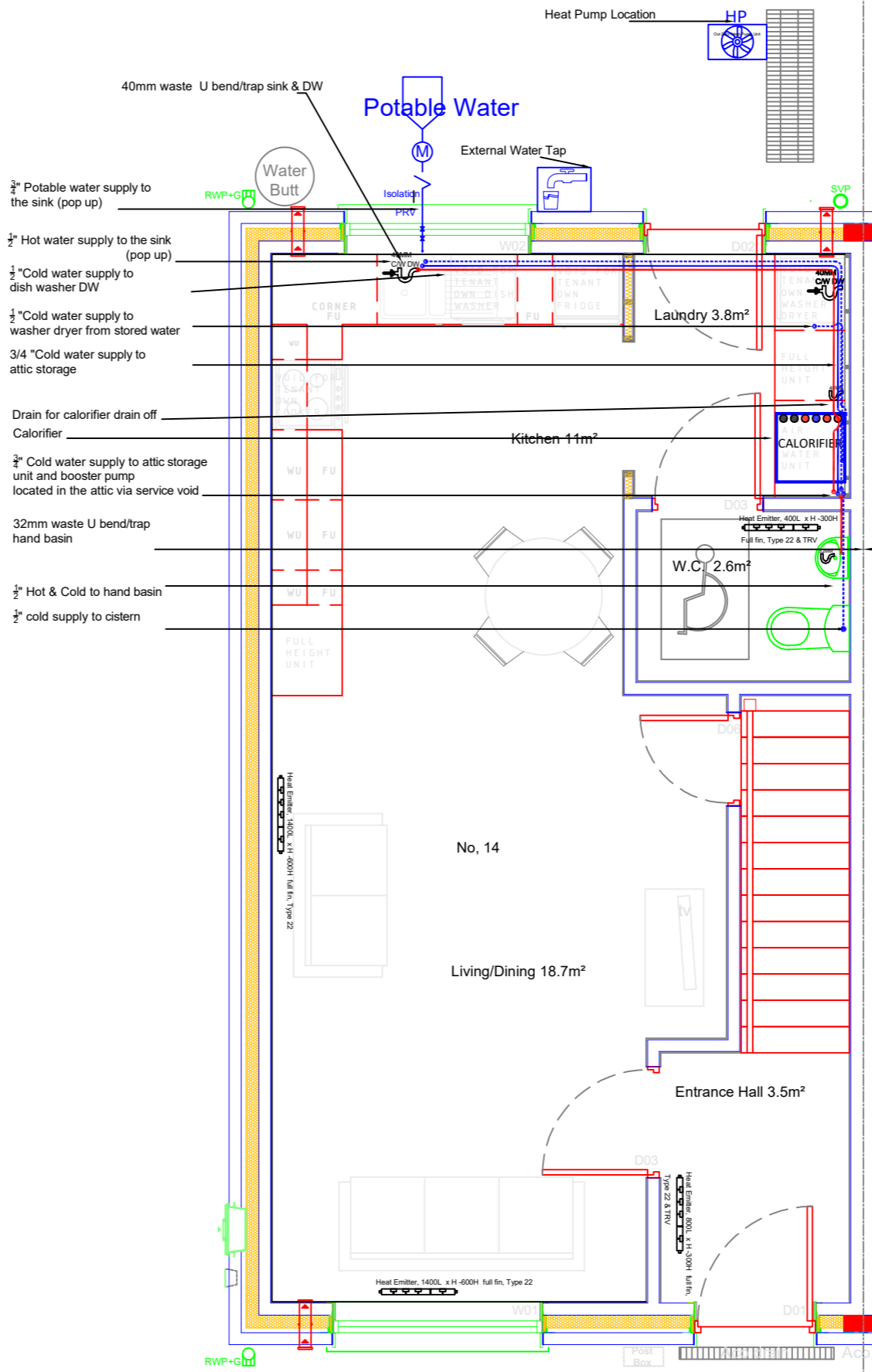
25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = Total capacity of the system l/s = 32 l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally
 Kitchen = 12.3 l/s
 Toilet = 5.7 l/s
 Bathroom = 7.6 l/s

| Heat Emitter Selection | | | | | | |
|--|---------------------------------|-----------------------|--|------|-----------|-----------|
| Heat Emitters Based on Low Flow & Return Temperature Annex H, S.R. 50-1 2021 NSAI Building Services - Codes of Practice - Part 1 Water Based Heating Systems | Delta T Heat Emitters Degrees C | Heat Loss Rooms Watts | Required Emitters Based on Low Delta T Watts Heat output @ Δ T 50°C. | Type | Length mm | Height mm |
| Kitchen & Living Room | 21.5 | 1501 | 5008 | 22 | 1400 | 600 |
| WC | 21.5 | 106 | 387 | 22 | 500 | 600 |
| Hall | 21.5 | 226 | 795 | 22 | 800 | 300 |
| Landing | 21.5 | 173 | 545 | 22 | 400 | 450 |
| Bathroom | 19.5 | 260 | 1055 | 22 | 600 | 600 |
| Main Bedroom | 21.5 | 329 | 1119 | 22 | 800 | 450 |
| Double Bedroom | 21.5 | 307 | 1119 | 22 | 700 | 450 |
| Storeroom | 21.5 | 134 | 545 | 22 | 400 | 450 |

| Heat Emitter Selection | |
|---------------------------------------|------|
| Calorifier Internal Hot Water Storage | 200L |
| Booster Pump & Cold Water Store | 212L |

| Heat Pump | |
|-------------------|-----|
| Split System/Mono | |
| kW | 4.3 |



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| Rev. No. | Revision Description | Date |
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| | | |

Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

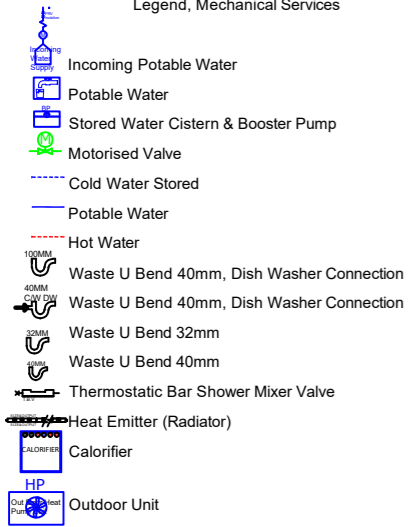
Drawing Title: Mechanical Services Ground Floor

Comhairle Contae Chorcaí
 Ailtirí | Stúirthóireacht Tithíochta
Cork County Council
 Architects | Housing Directorate
 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corccoco.ie

| | |
|----------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: J.C. Technician: T.O.F. Surveyor: R.B. Engineer: J.F. Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-241 | |
| Date: Oct. 2023 1:50 | Scale: Planning Issue for: A3 |



Legend, Mechanical Services



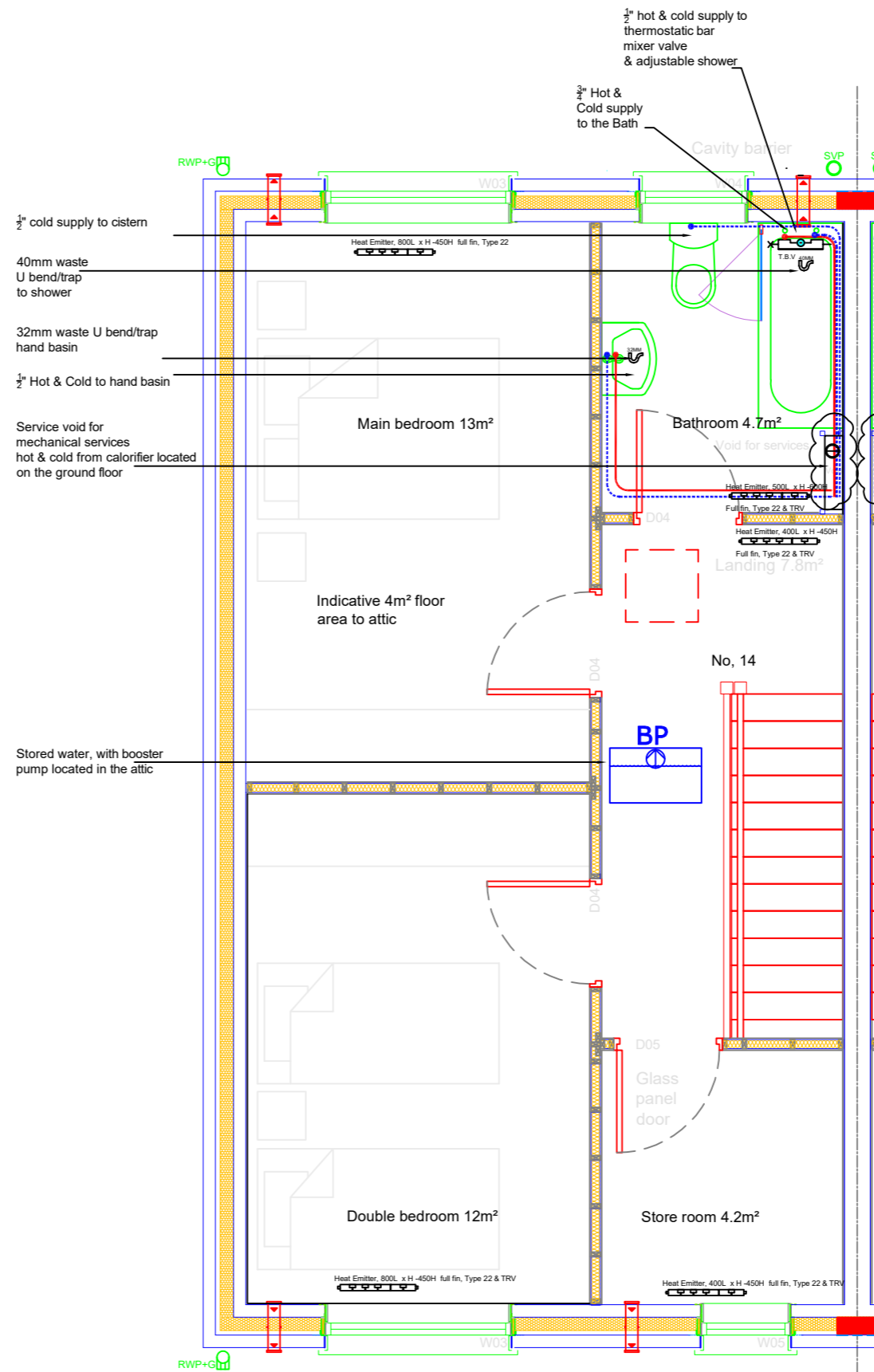
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| Heat Emitter Selection | | | | | | |
|--|---------------------------------|-----------------------|--|------|-----------|-----------|
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| Double Bedroom | 21.5 | 307 | 1119 | 22 | 700 | 450 |
| Storeroom | 21.5 | 134 | 545 | 22 | 400 | 450 |

| Heat Emitter Selection | |
|---------------------------------------|------|
| Calorifier Internal Hot Water Storage | 200L |
| Booster Pump & Cold Water Store | 212L |

| Heat Pump | |
|-------------------|-----|
| Split System/Mono | |
| kW | 4.3 |



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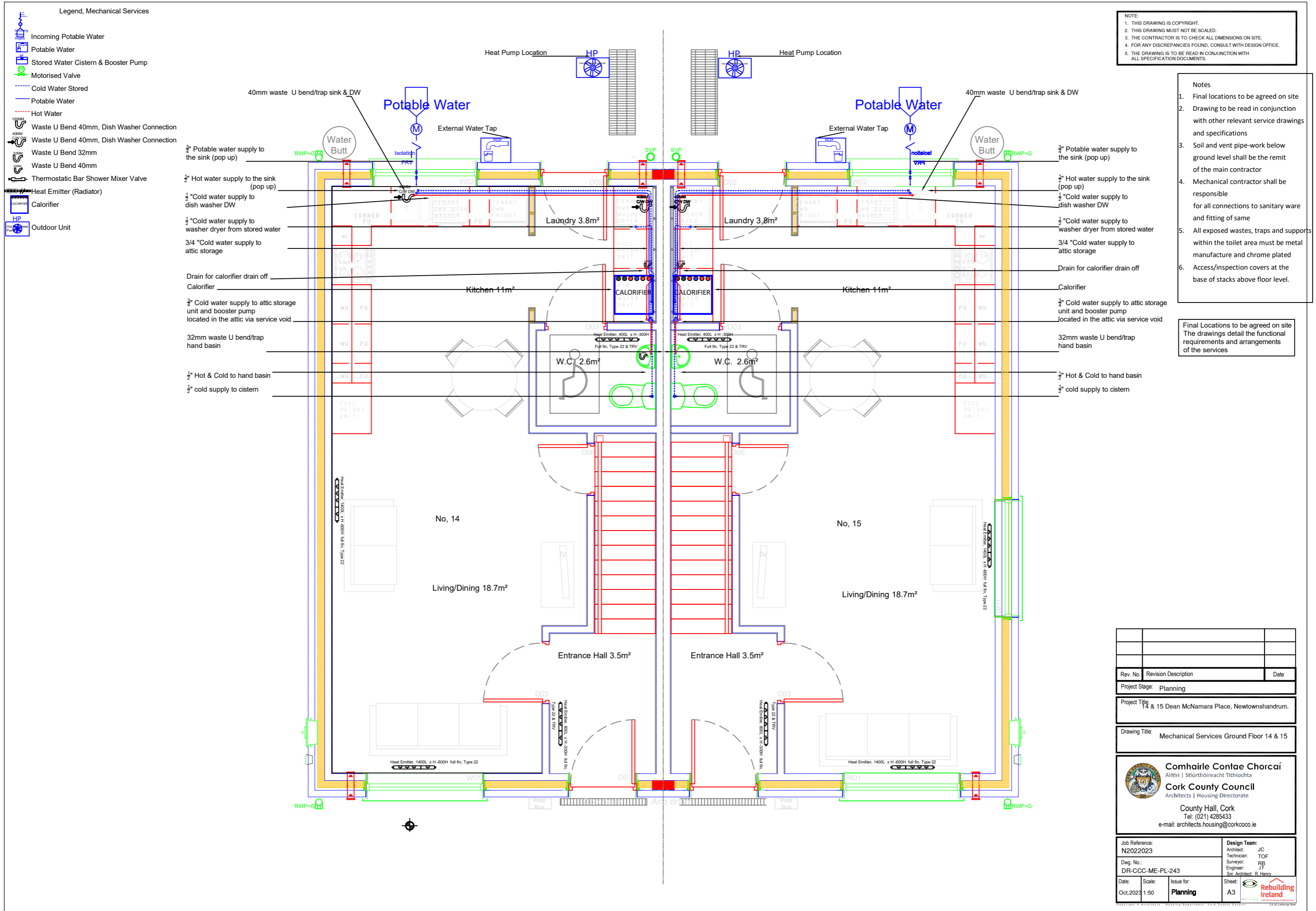
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Project Stage: Planning
 Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Mechanical Services First Floor

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 County Hall, Cork
 Tel: (021) 4285433
 e-mail: architects.housing@corkcoco.ie

| | |
|-------------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: J.F. Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-242 | Sheet: A3 |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Rebuilding Ireland |



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Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

| Rev. No. | Revision Description | Date |
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Project Stage: Planning
 Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Mechanical Services Ground Floor 14 & 15

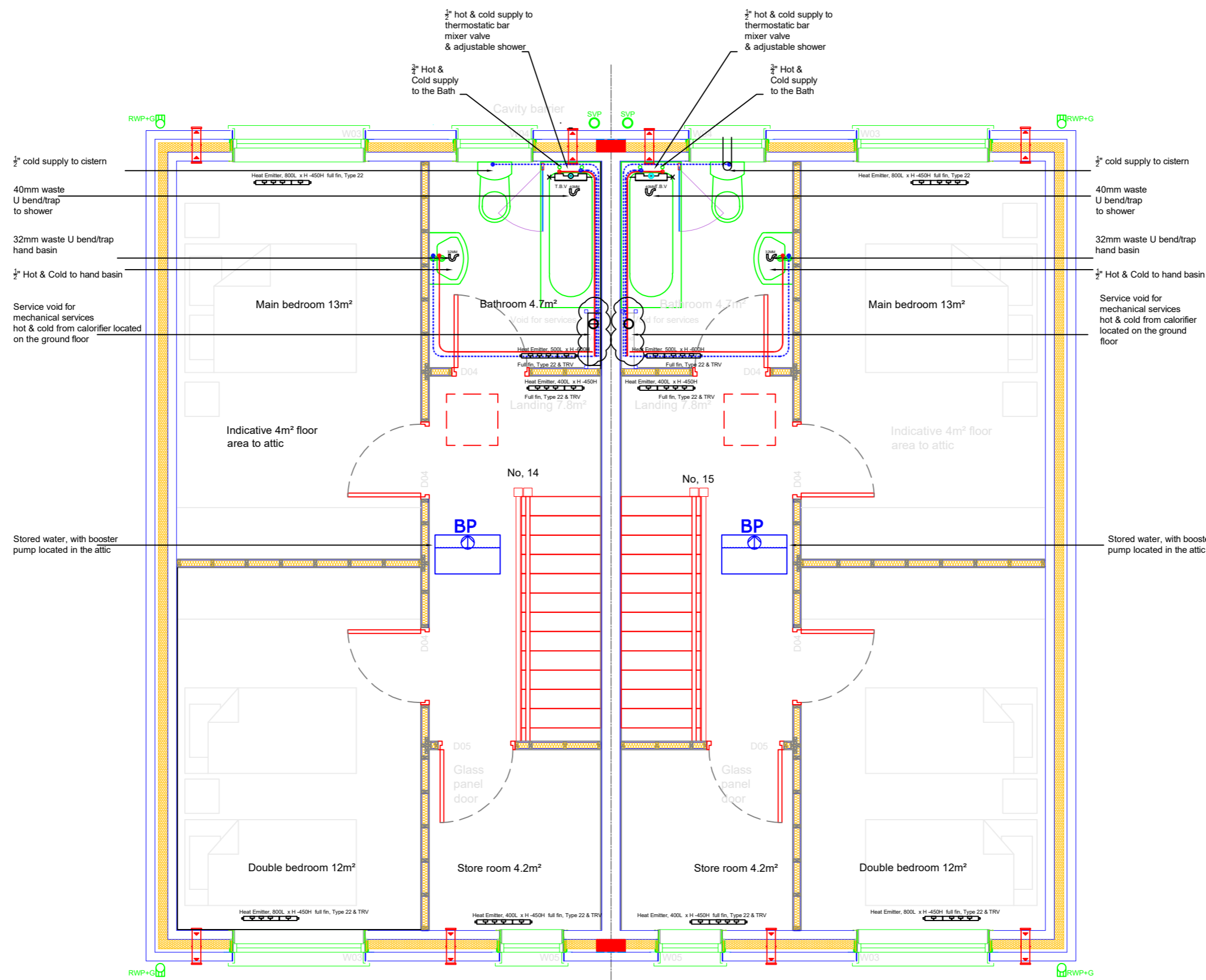
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| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-243 | Date: Oct. 2023 |
| Date: Oct. 2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |



Legend, Mechanical Services

- Incoming Potable Water
- Potable Water
- Stored Water Cistern & Booster Pump
- Motorised Valve
- Cold Water Stored
- Potable Water
- Hot Water
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 40mm, Dish Washer Connection
- Waste U Bend 32mm
- Waste U Bend 40mm
- Thermostatic Bar Shower Mixer Valve
- Heat Emitter (Radiator)
- Calorifier
- Outdoor Unit



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Project Stage: Planning

Project Title:
 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title:
 Mechanical Services First Floor 14 & 15

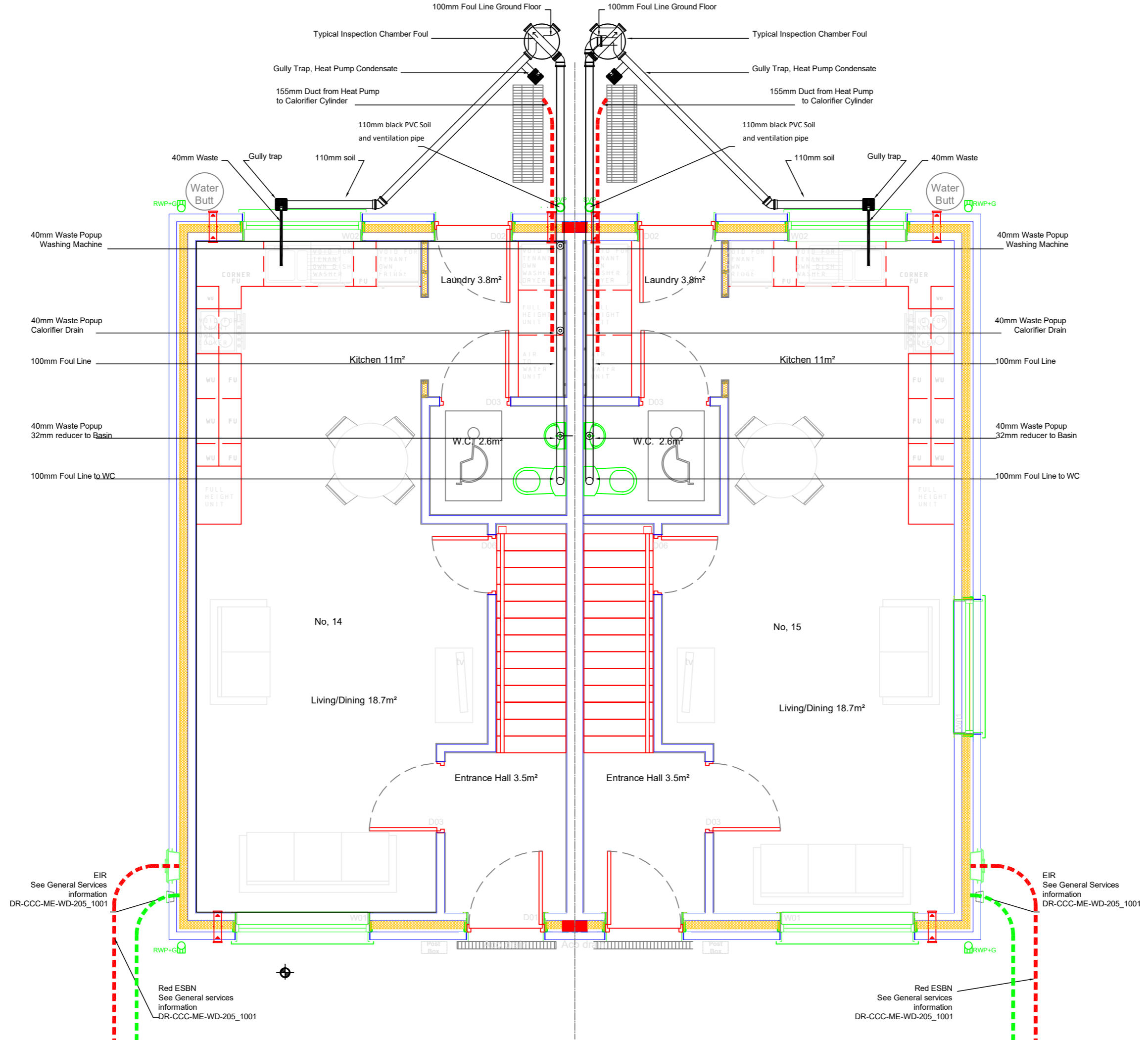
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| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-244 | Sheet: A3 |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Issue for: Rebuilding Ireland |

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| Rev. No. | Revision Description | Date |
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Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Drains & Ducting Services Ground Floor 14 & 15

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|-------------------------------|--|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Snr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-256 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |






EIR
 See General Services
 information
 DR-CCC-ME-WD-205_1001

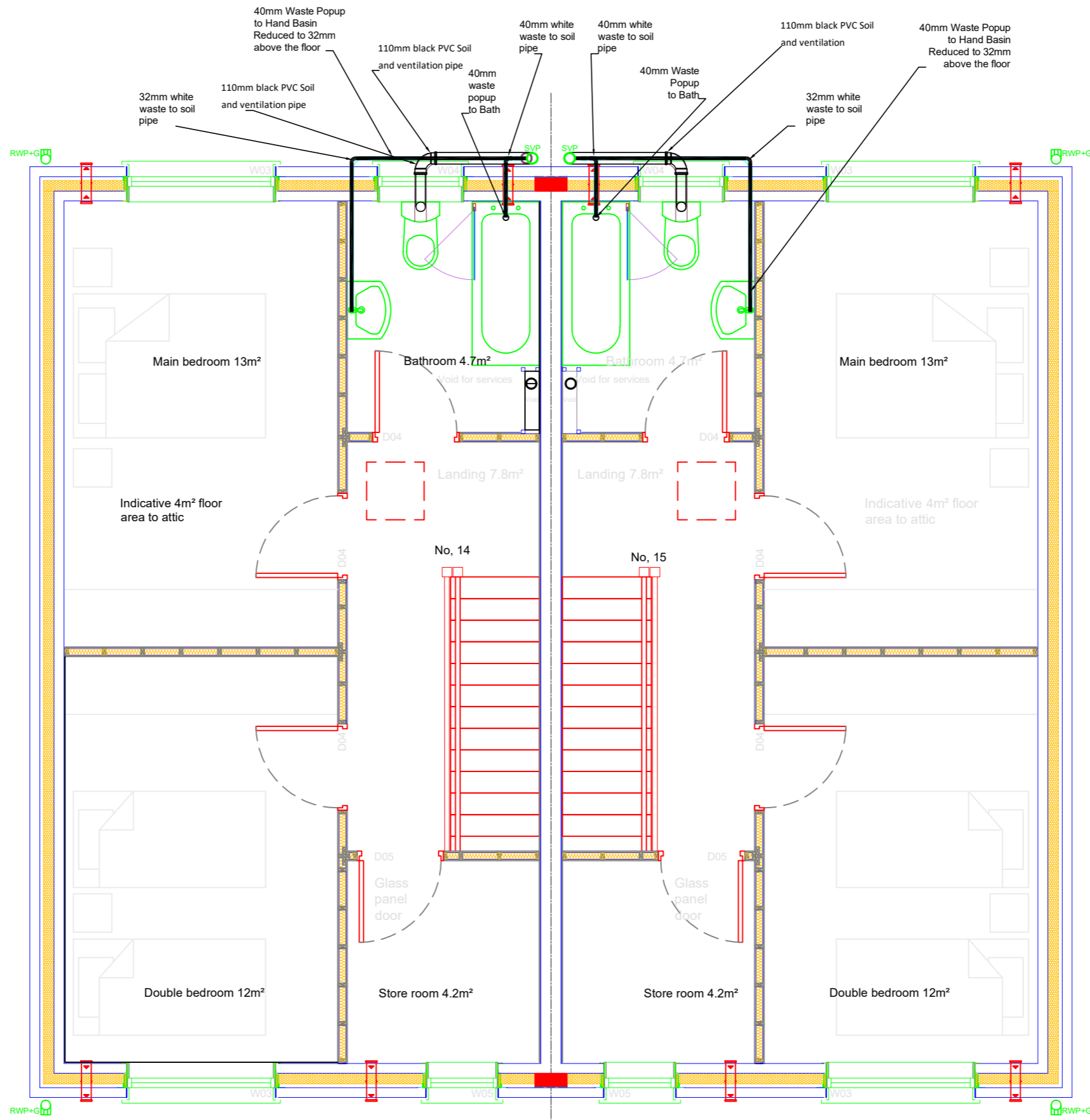
Red ESNB
 See General services
 information
 DR-CCC-ME-WD-205_1001

Red ESNB
 See General services
 information
 DR-CCC-ME-WD-205_1001

EIR
 See General Services
 information
 DR-CCC-ME-WD-205_1001

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation 7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control



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Final Locations to be agreed on site
 The drawings detail the functional requirements and arrangements of the services

| Rev. No. | Revision Description | Date |
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Project Stage: Planning






Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: Drains & Ducting Services First Floor 14 & 15

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| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-257 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation
7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
-  Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

Calculated general ventilation rate based on internal floor area of the dwelling [TGD F - 1.2.2.2]: 85 m² at 0.3 l/s/m² (0.3 x 85) = 25.45 l/s

General ventilation rate of the dwelling is the greater of the above = 25.5 l/s

Continuous extract ventilation rate of the dwelling is: 25.5 l/s

Overall minimum boost extract ventilation rate requirement [TGD F - Table 1]: = Kitchen + Toilet + Bathroom l/s = 27 l/s

25% capacity requirement over general ventilation rate of the dwelling [TGD F - 1.2.2.3]: = Total capacity of the system l/s = 32 l/s

Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally

Kitchen = 12.3 l/s
Toilet = 5.7 l/s
Bathroom = 7.6 l/s

Minimum total equivalent area of background ventilators providing general ventilation 42,000mm² + 7000mm² /10m > 70m²

Total area = 83m²

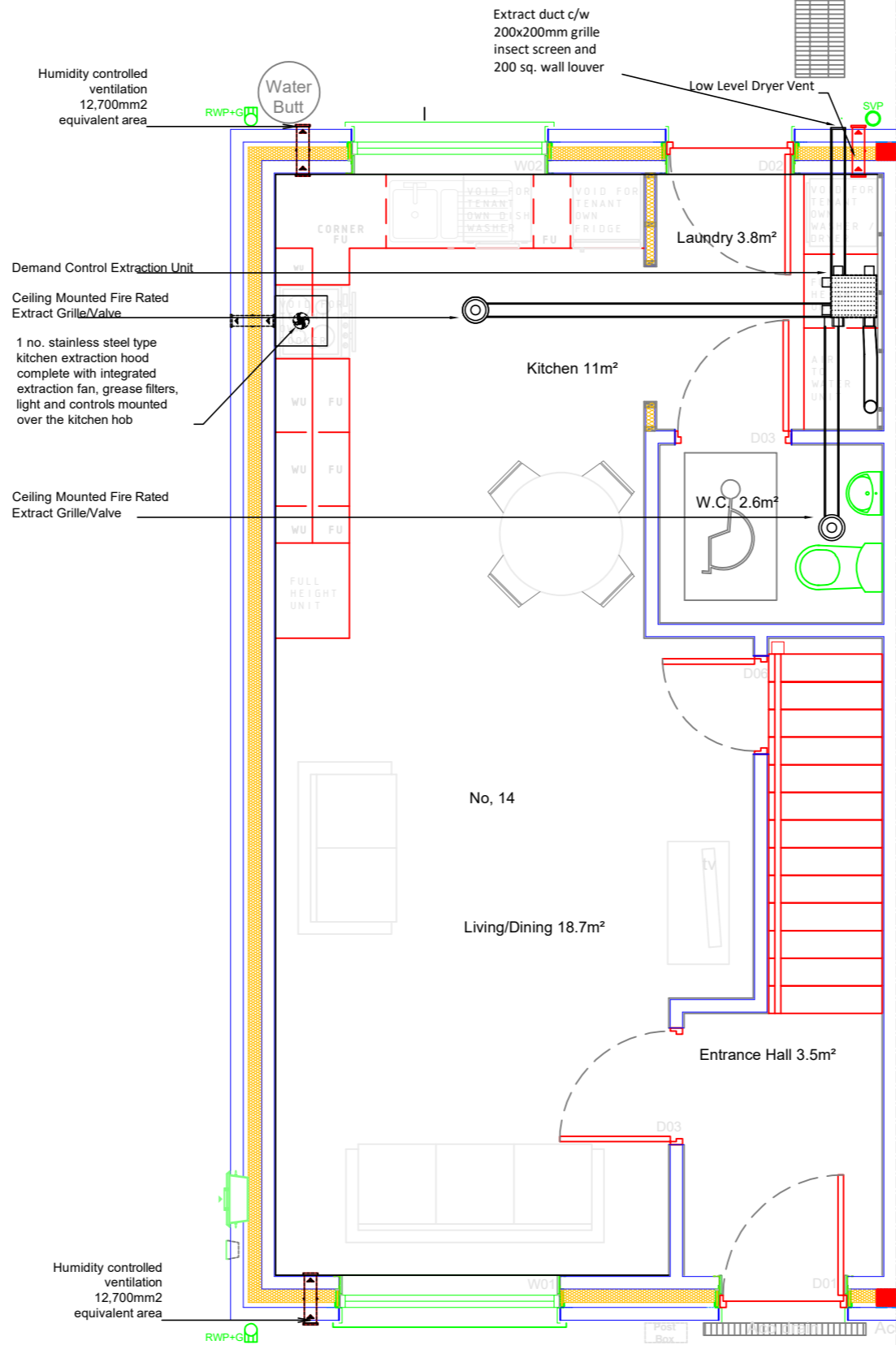
Background ventilators = 42,000mm² + 10,500mm² = 52,500mm²

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings

Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings

Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to; Buildings Regulations 2019
Technical Guidance Document F
Ventilation



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Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

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Project Stage: Planning


Project Title:
14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title:
MEV Services Ground Floor

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Architects | Housing Directorate

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|-------------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-271 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |



Legend, Mechanical Extraction

- Mechanical extraction unit
- Flush mounted demand control extract grille
- Humidity controlled demand ventilation 7000mm2/3500mm2 equivalent area
- Stainless steel kitchen extract hood
- Mechanical extraction control

Calculated general ventilation rate based on occupancy of the dwelling [TGD F - 1.2.2.2]: @ 5 l/s plus 4 l/s person = 5 + (4*4) = 21

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Continuous extract ventilation rate of the dwelling is: 25.5 l/s

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Room with MEV extract grid (s) Room general extract airflow rate (l/s) adjusted proportionally

Kitchen = 12.3 l/s
Toilet = 5.7 l/s
Bathroom = 7.6 l/s

Minimum total equivalent area of background ventilators providing general ventilation 42,000mm2 + 7000mm2 /10m > 70m2

Total area = 83m2

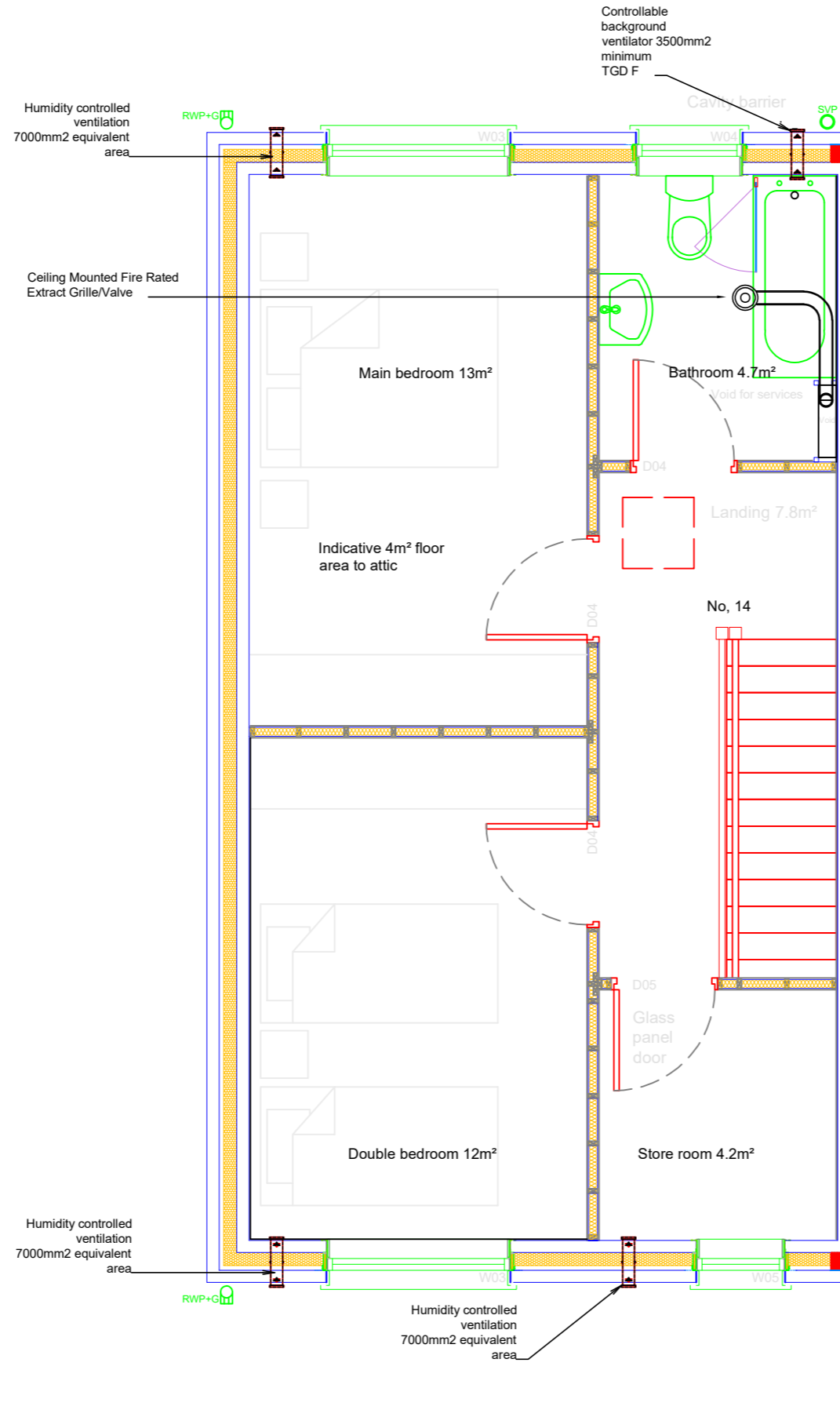
Background ventilators = 42,000mm2 + 10,500mm2 = 52,500mm2

Ventilation heat Loss calculations based on S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems in dwellings

Building fabric heat Loss calculations based on S.R. 50-1 2021 NSAI, building services - codes of practice - part 1 water based heating systems in dwellings

Heat emitters based on Low flow & return temperature annex H, S.R. 50-1 2021 NSAI building services - codes of practice - part 1 water based heating systems

Ventilation to: Buildings Regulations 2019 Technical Guidance Document F Ventilation



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Final Locations to be agreed on site
The drawings detail the functional requirements and arrangements of the services

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| Rev. No. | Revision Description | Date |
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Project Stage: Planning






Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: MEV Services First Floor

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|-------------------------------|---|
| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-272 | |
| Date: Oct.2023 | Scale: 1:50 |
| Issue for: Planning | Sheet: A3 |

Legend, Mechanical Extraction

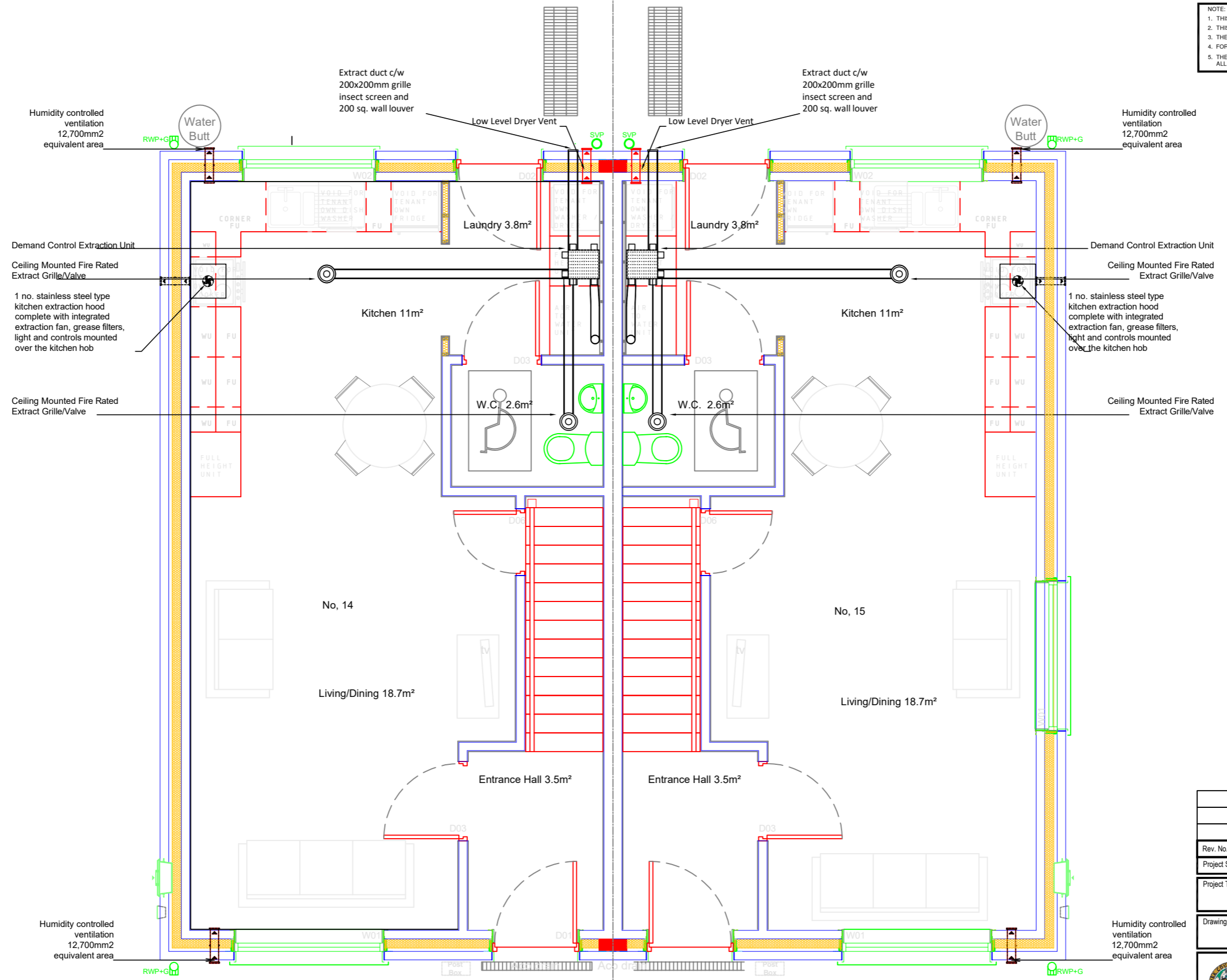
-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation 7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
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| Rev. No. | Revision Description | Date |
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Project Stage: Planning

Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.






Drawing Title: MEV Services Ground Floor 14 & 15

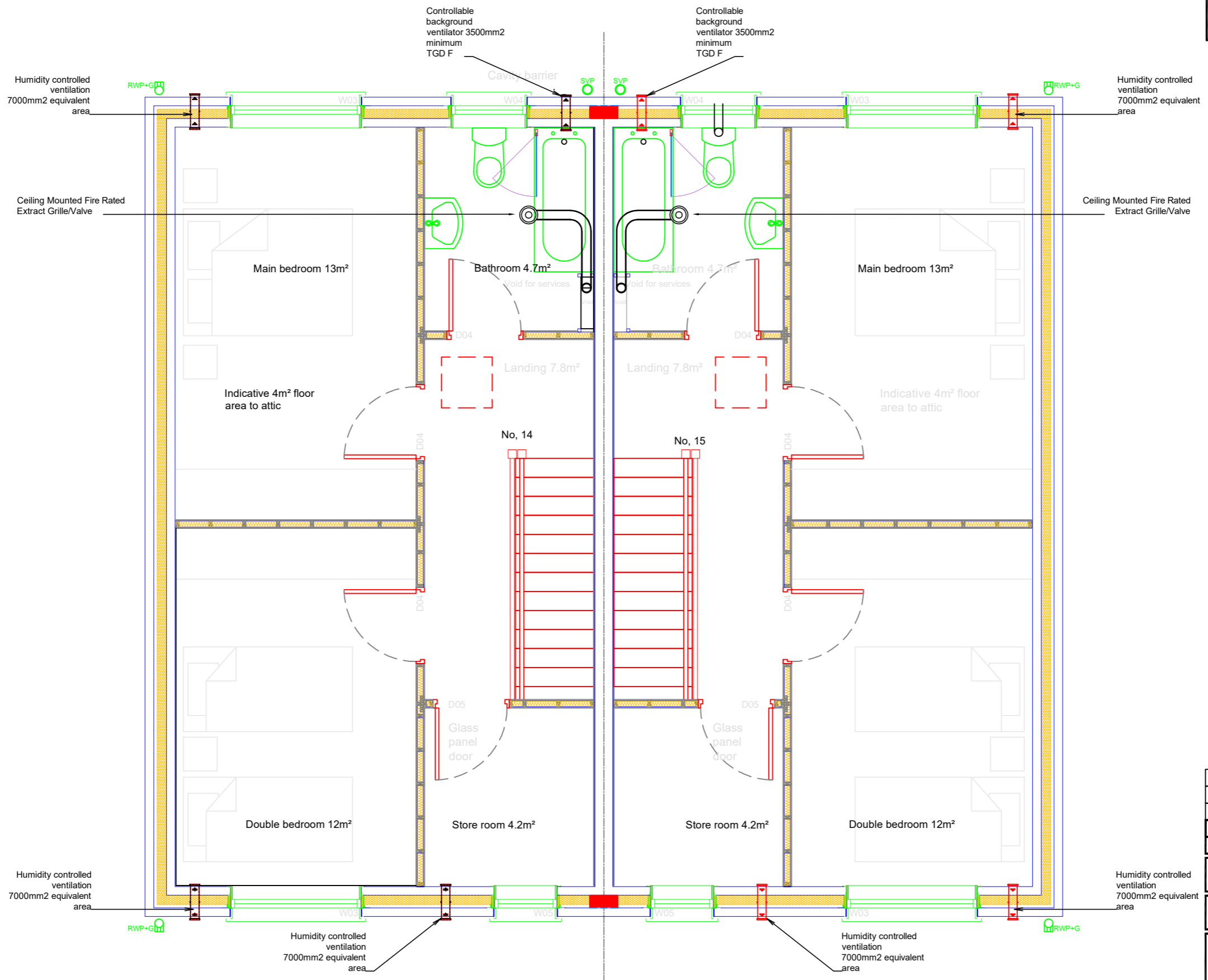


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| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-273 | Date: Oct.2023 |
| Scale: 1:50 | Issue for: Planning |
| Sheet: A3 |  |

Legend, Mechanical Extraction

-  Mechanical extraction unit
-  Flush mounted demand control extract grille
-  Humidity controlled demand ventilation 7000mm²/3500mm² equivalent area
-  Stainless steel kitchen extract hood
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Project Stage: Planning



Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum.

Drawing Title: MEV Services First Floor 14 & 15

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| Job Reference: N2022023 | Design Team: Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Dwg. No.: DR-CCC-ME-PL-274 | |
| Date: Oct. 2023 | Scale: 1:50 |
| | Issue for: Planning |
| | Sheet: A3 |

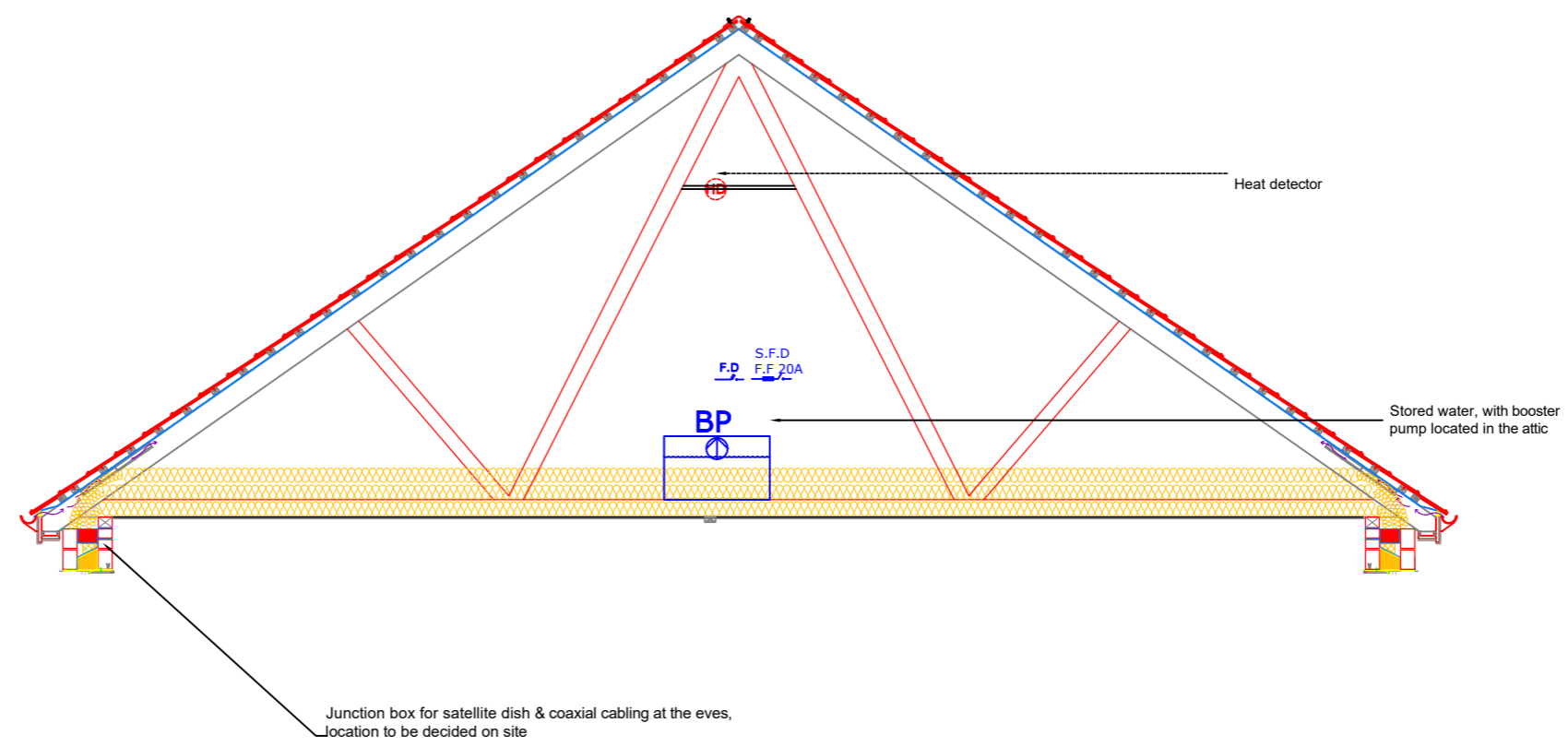




-  Stored Water Cistern & Booster Pump
-  Fused Disconnection (Spur) Booster Pump

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| Rev. No. | Revision Description | Date |
| Project Stage: Planning | | |
| Project Title: 14 & 15 Dean McNamara Place, Newtownshandrum. | | |
| Drawing Title: Attic 14 & 15 | | |
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| Job Reference: N2022023 | | Design Team: |
| Dwg. No.: DR-CCC-ME-P-286 | | Architect: JC Technician: TOF Surveyor: RB Engineer: JF Sr. Architect: R. Henry |
| Date: Oct.2023 | Scale: 1:50 | Issue for: Planning |
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