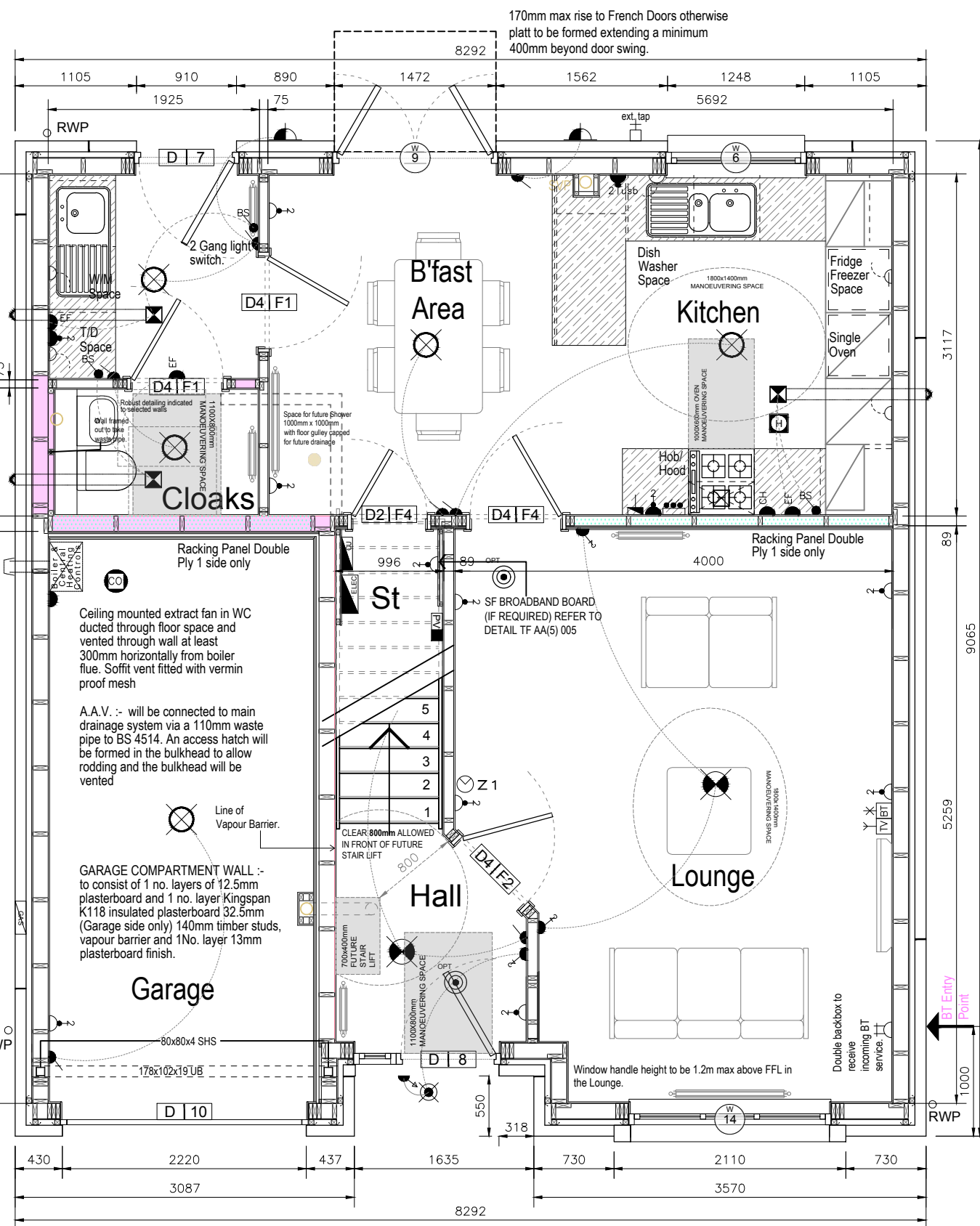
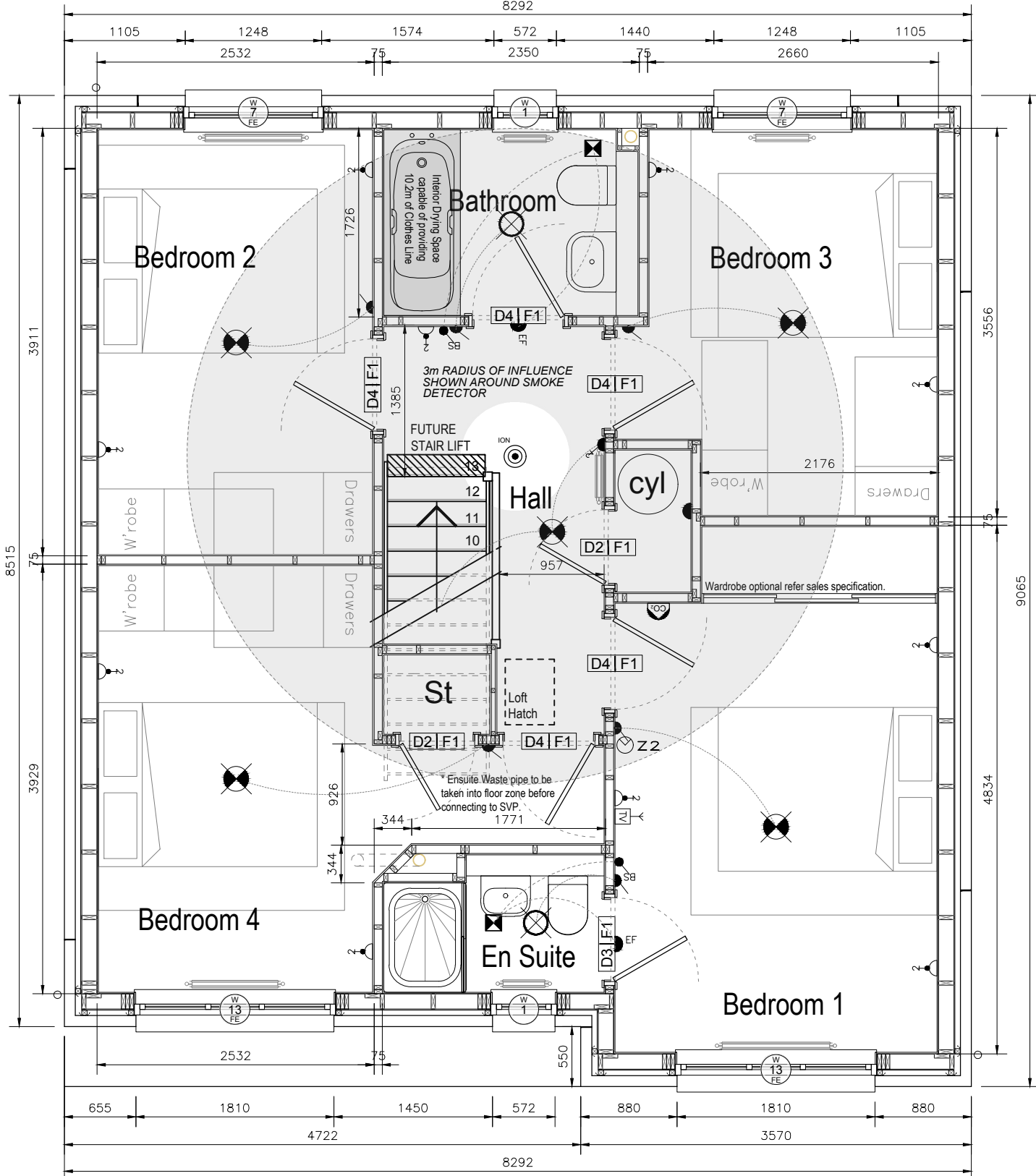


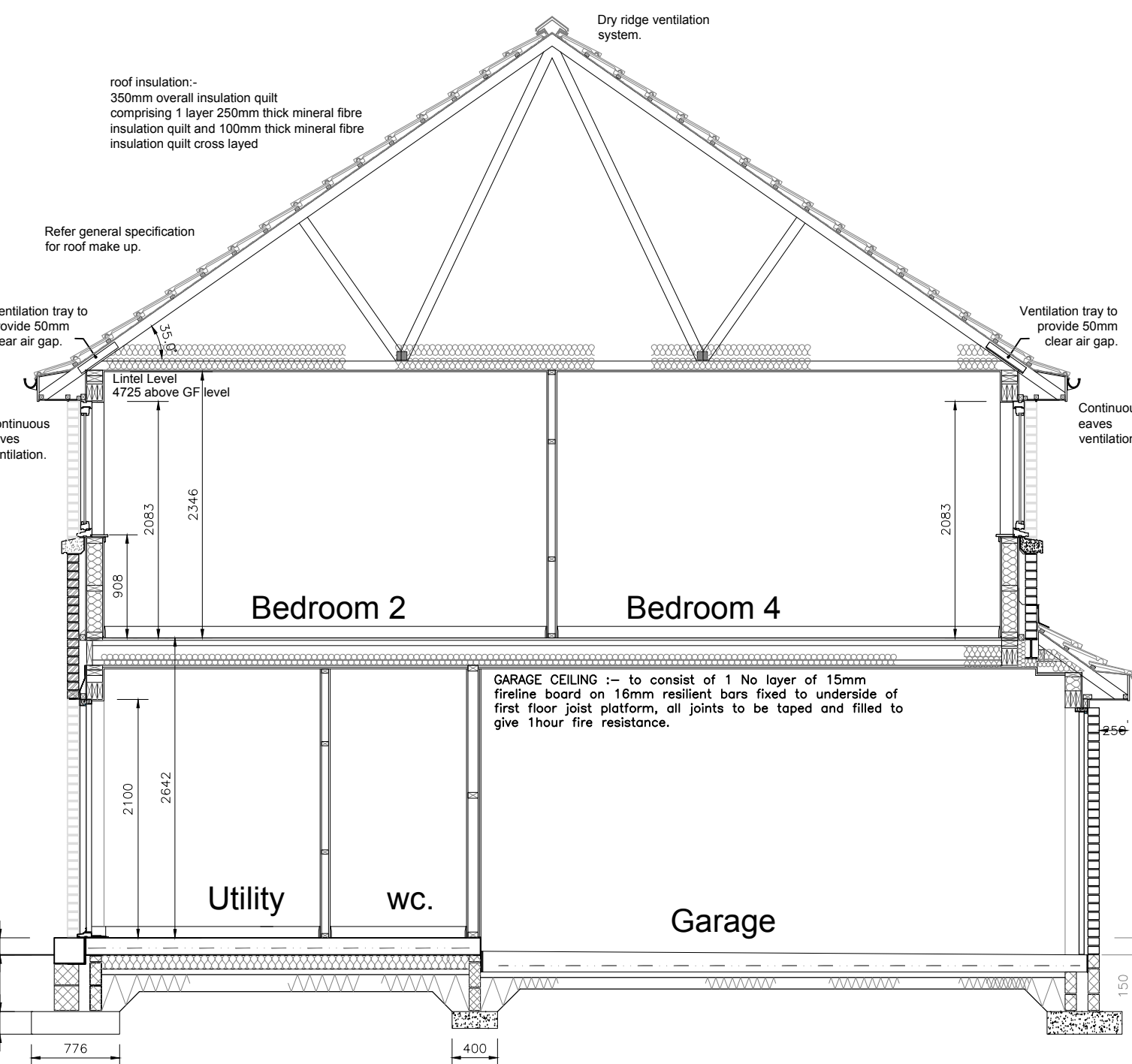
Underbuilding Layout 1:50



Ground Floor Layout 1:50



First Floor Layout 1:50



Section 1:50

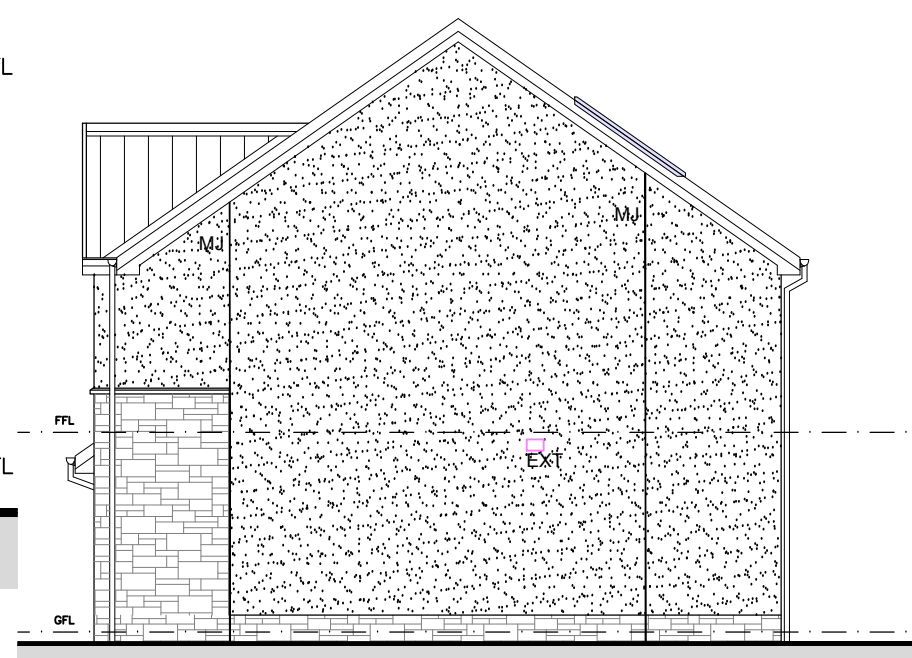


Front Elevation 1:50

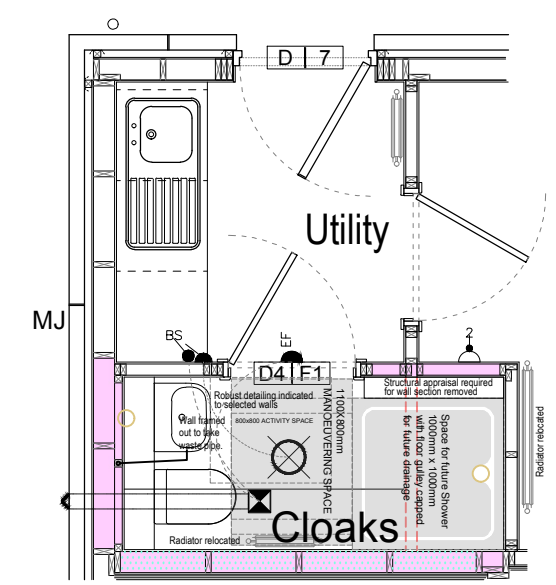


Rear Elevation 1:100

Side Elevation 1:100



Side Elevation 1:100



Future Shower Layout 1:50

GENERAL NOTES

- No dimensions are to be scaled from this or any associated drawing.
- The dwelling has been designed and will be built following the guidance in the Accredited Construction Details (Scotland) Regulations.
- No H.A.C. to be used in the works.
- All works are to be carried out in a tradesman-like manner and in accordance with all current British Standards and Code of Practice.
- Carpentry timber to be treated with pressure impregnated preservative Suprotect STS in accordance with BS EN 527:2015.
- All structural timber shall be in accordance with BS EN 1995-1-1:2004 + A2:2014.
- Materials and workmanship not otherwise specified shall be in accordance with the current British Standards, Code of Practice and NBS/C guidelines including all amendments to date.
- Minimum distance of 1m from dwellings to boundaries.
- A minimum of 1800mm Headroom to be provided over activity spaces and Showers.
- Access and facilities to dwellings - To comply with current Building (Scotland) Regulations and Scottish Building Standards Part 4.2, all new access doors with accessible storey will have a minimum clear opening width of not less than 800mm as detailed in Part 4.2.6 within the accessible entrance to have low threshold in accordance with Part 4.1.4.4.1.9.
- Collision with projections - All parts of the building and access paths to comply with current Building (Scotland) Regulations & Part 4.8.1 of the Scottish Building Standards.
- Collision with Glazing - All glazing to comply with current Building (Scotland) Regulations and to comply with BS 6882: Part 4: 2005.
- All Electrical installations are to be carried out in accordance with the current I.E.E. (17th Edition) Regulations, including all necessary earth bonding and earthing. All electrical works to be carried out in accordance with BS 7671 (2008) as amended.
- 100 percent of lighting points to be fitted with low energy bulbs.
- Automatic (PIR) Illumination to be provided to all accessible entrances. Max 100 watts per fitting in accordance with BS EN 12066-1: 2000.
- Drainage to be carried out and tested to the entire satisfaction of the local authority, Building Control Department and in compliance with current Building (Scotland) Regulations & to comply with part 3.6 & 3.7 of the Scottish Building Standards.
- Rainwater gutters and down pipes to BS EN 12056-3:2000.
- Surface water drainage system to be tested to BS EN 1610: 1998.
- Sanitary pipe work to comply with BS EN 12056-2: 2000.
- Drainage system to comply with BS EN 12056-1: 2000, BS EN 752-3: 1997 (amendment 2) BS EN 752-4: 1998 and BS EN 1610:1998 and ventilated in accordance with BS EN 12056-2: 2000.
- Waste water drainage system under and around the building to be tested in accordance with BS EN 1610: 1998.
- Sanitary pipework tested in accordance with BS EN 12056-2: 2000.
- As admission valves to be installed in accordance with BS EN 12380: 2002 (Where required an air inlet grille to be provided on stack housing).
- Dual flush WCs will have an average flush volume of not more than 4.5 litres.
- Plumbing: Single flush WCs will have a flush volume of not more than 4.5 litres. Taps serving wash or hand rinse basins will have a flow rate of not more than 6 litres/min. Anti-Scale valves to be fitted to both hot and cold water supply lines to limit water temperature to 40°C.
- Interstitial condensation: All walls, roofs and floors to comply with Part 6.1.13.1.3 of the Scottish Building Standards and comply with current Building (Scotland) Regulations and Appendix D and Clauses 1.1 to 6.3.5.2 of BS 5250:2011 + A1:2016. Gases ventilation provided at the equivalent to a continuous 10mm gap. Where roof pitch exceeds 5° or the span exceeds 10m ridge ventilation to be provided equivalent to a continuous 5mm gap. All lean to roofs with accommodation below to be provided with subvent ventilation equivalent to a continuous 5mm gap where not about main house wall. Where the Vents are used, Number of vents required to be confirmed by roofing contractor.
- Ventilation: All window trickle ventilators to provide not less than:
 - 2500mm² to Apartments
 - If trickle ventilation is ducted the above amounts should be doubled. Trickle ventilators to be positioned minimum 1750mm above floor level.
 - In Wet areas fitted with a dMEV, Trickle ventilators are not required. The door to the wet room should be "undercut" by 20mm. This air space should be clear of the actual or notional floor control. Ventilation via an undercut door to provide the required background ventilation to the area that the wet room is accessed from, e.g. an en-suite off a bedroom.
- All Mechanical Ventilation to comply with current Building (Scotland) Regulations, Part 3.14.11 of the Scottish Building Standards, and the C.I.B.S.E. Regulations 1986.

Where the infiltration rate is not less than 3m³/m² @ 50 Pa, Mechanical Ventilation (dMEV) units should be installed in rooms where there is likely to be high humidity such as Kitchens, Bathrooms and Shower Rooms. dMEV units should be designed, installed and commissioned to provide minimum continuous extraction rates in accordance with the following:

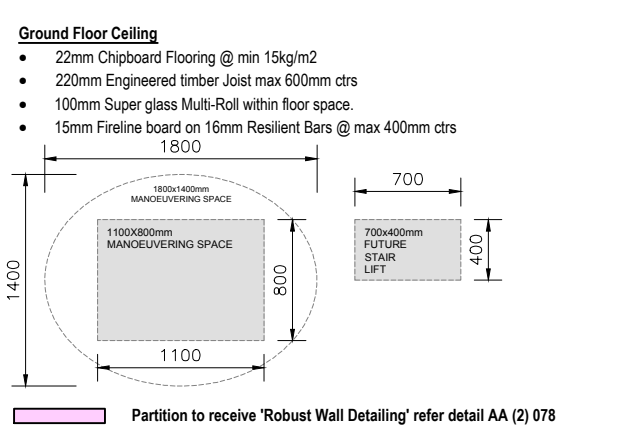
 - Kitchen: 6 litres/sec with 13 litres/sec boost
 - Utility room: 4 litres/sec with 8 litres/sec boost
 - Bathroom: 4 litres/sec with 8 litres/sec boost
 - Toilet: 3 litres/sec with 6 litres/sec boost
- Heating: Boiler, Hot Water Cylinder and Heating Controls to be as specified in SAP 2012 calculations. Radiators to have end panels and grilles. T.R.V.'s to all rooms except room with thermostat. Heating system to comply with Part 3.17.7 of the Scottish Building Standards. Radiators to come fitted with front state. Boiler installation to comply with the requirements of the Gas Appliances (Safety) Regulations 1956 and the Gas Safety (Installations and Use) Regulations 1998. A durable label is to be provided and installed in a location in accordance with Part 3.17.7 of the Scottish Building Standards. The gas appliance is to carry a CE mark in accordance with the Gas Appliance (Safety) Regulations 1956. Condensate from condensing boilers to be plumbed into adjacent house plumbing system at kitchen sink or sink in garage. Where the gas appliance is located within an appliance compartment cooling air is to be supplied in accordance with BS 5440: Part 2: 2000.
- Heating and hot water system will be commissioned and tested prior to handover. Manufacturer's instructions for the operation and maintenance of the system will be provided for the building occupier to encourage optimum efficiency in the conservation of fuel and power.
- The Heating system should be designed to be capable of maintaining temperature of 21° C in at least 1 apartment and 19° C elsewhere, when the outside temperature is minus 1° C.
- Fire Detection: Provide 1 No. smoke detector per storey, 1 No. to Principal Room, 1 No. Heat detector to Kitchen all with standby supply complying with BS 5446: Part 2: 2003 of Part 2.11.1.1.2 of the Scottish Building Standards and complying with and installed with the provision of current Building (Scotland) Regulations, see table for type & location.
- Carbon Monoxide Detection: Detectors to comply with BS EN 50291:1:2010 and to be powered by a battery designed to operate for the working life of the detector. The detector will incorporate a warning device to alert users when its working life is about to expire. A CO detector will be fitted in every space containing a fixed combustion appliance (excluding an appliance solely used for cooking) and a detector provided in a bedroom or principal habitable room, where a flue passes through that room. CO detectors will be located either on a ceiling min 300mm away from a wall or wall mounted min 150mm below a ceiling and above any door or window in the room. CO detectors will be located between 1m & 3m from the appliance.
- Ventilation Awareness: CO2 detector required to the Principal Bedroom. Monitoring equipment for CO2 detection should be mains operated and may take the form of a self-contained monitor detector or a separate monitor and detector head. The monitor should have an easily understood visual indicator and be capable of logging data to allow the occupant to gain information on CO2 levels for at least the preceding 24 hour period. If the detector monitor has an audible alarm this should be capable of being permanently deactivated.
- Where applicable, all services within garages will be surface mounted to maintain fire separation between garages and main house.
- All Ground Floor Windows & Doors to have laminated glass to comply with Secure by Design and Technical standards 4.13 (Security).
- Escape windows (FE) to have a clear opening of at least 0.33m² and be at least 450mm high and 450mm wide, with the bottom of the opening not more than 1100mm above the floor and providing unobstructed egress (Upper Floor only).
- Cleaning of Windows and Rooflights: All Upper Floor windows to comply with current Building (Scotland) Regulations, & comply with Parts 4.2.3 & 4.6.4 of the Scottish Building Standards, and Clauses 10.2, 10.3 & 10.4 of BS 6213 Part 1:1997 with regard to cleaning Windows and Rooflights.
- External steps at French Patio doors to be maximum 170mm rise, 300mm treads. Maximum projection of door frame oil to be 25mm above finished floor level. Protective barriers to external steps and landings at change in direction to be minimum 1100mm.
- Stairs to comply fully with Building (Scotland) Regulations, & Scottish Building Standards Part 4.3 (3.3, 4.3.1, 4.3.11 inclusive) with MCF treads and risers, pine stringers, newels and balusters.
 - Minimum going 227.6mm
 - Maximum rise 204mm
- Maximum pitch 42°
- Handrail to be 900mm above pitch line on one side only and to comply with BS 5180: 1999 Protective barriers to stairs and any Upper Floor French Doors to be minimum 1100mm high and comply with BS EN 1991-1-1 and PD 6888-1. Barrier will be designed & constructed so that it cannot be easily climbed by young children. A maximum spacing of 90mm between balusters. A minimum of 2000mm clear headroom over pitch line. Stairs with a winder section require a continuous handrail to the outer portion of the stair. The effective width of the stair between handrails should be min 500mm.
- Conservation of fuel and power - All buildings to comply with Parts 6.08, 6.16, 26, 36, 48, 78.5 of the Scottish Building Standards, & current Building (Scotland) Regulations and due consideration given to be compliant with Directive 2010/31 EU. Ensure all gaps between dry masonry, window masonry, door openings, ceilings and floor joints to be sealed. Service penetrations and radiator pipes properly sealed. Draught seals fitted to windows, external doors and lift hatches. Thermostatic radiator valves fitted to all radiators. Heating system controlled with A2, TEMPUS 2 electronic time switch and room stat. Heating pipes for supply of hot water to be suitably insulated against heat loss.
- Energy Performance Certificate to be provided to Local Authority on completion of works. A copy of the EPC will be displayed on the wall of each property.
- Reference should be made to the Domestic Building Standards Compliance Guide for Scotland 2015 Edition to provide guidance on compliance with Building Regulations, namely standards 6.5 to 6.7 as set out in Section 6 (energy) of the 2015 Domestic Technical Handbook.
- Provide a start guide for clients to all houses as per standard 6.8.2
- Noise and Air Tests to be carried out to the satisfaction of the relevant local authority

| OAKMONT | | | |
|-----------|----------|-----|------|
| 4 BEDROOM | DETACHED | 112 | 1203 |

| ELECTRICAL LEGEND | | | |
|-------------------|---|--|---|
| | LOW ENERGY CEILING MOUNTED PENDANT LIGHT | | LOW ENERGY CEILING SHROUDED LIGHT FITTING |
| | WALL MOUNTED BULKHEAD | | EMERGENCY BULKHEAD |
| | ENTRANCE LIGHTING | | PIR SENSOR/PHOTO CELL |
| | 32 AMP COOKER SWITCH | | 16 AMP FUSED SPUR |
| | HIGH LEVEL SPUR FOR COOKER HOOD | | HIGH LEVEL SPUR FOR dMEV EXTRACT FAN |
| | 16 AMP LOW LEVEL SINGLE GANG SOCKET | | 16 AMP LOW LEVEL DOUBLE GANG SOCKET |
| | 16 AMP FUSED SPUR WITH REMOTE SWITCH | | 16 AMP HIGH LEVEL DOUBLE GANG SOCKET |
| | SHAVER POINT | | T.V. POINT |
| | B.T. POINT | | INCOMING B.T. DOUBLE BACK BOX |
| | REMOTE | | PV INVERTER PANEL |
| | MULTI-POINT SWITCH | | WALL MOUNTED LIGHT SWITCH |
| | ELECTRIC METER & CONSUMER UNIT | | GAS METER |
| | dMEV CONTINUOUS EXTRACT FAN DUCTED EXTERNALLY | | COOKER HOOD FAN RECIRCULATION TYPE ONLY |
| | BOOSTER SWITCH FOR dMEV EXTRACT FAN | | CENTRAL HEATING THERMO CONTROLS |
| | IGNITION SMOKE DETECTOR | | OPTICAL SMOKE DETECTOR |
| | MULTI-SENSOR ALARM | | HEAT DETECTOR |
| | CARBON MONOXIDE DETECTOR | | CARBON DIOXIDE DETECTOR FIXED AT HEIGHT OF 1.5M |

| STANDARD 2.11.1 | FIRE DETECTION AND FIRE ALARM SYSTEMS |
|--|--|
| TYPE | RECOMMENDED LOCATION |
| OPTICAL SMOKE ALARM to BS EN 14604: 2005 | PRINCIPAL HABITABLE ROOM - LOUNGE OR OPEN PLAN AREA, - HALLWAYS AND STARWELLS ADJACENT TO KITCHENS |
| IONISATION SMOKE ALARM to BS EN 14604: 2005 | HALLWAYS AND STARWELLS ADJACENT TO BATHROOMS OR SHOWER ROOMS |
| MULTI SENSOR ALARM to BS 5838: Part 6: 2004 | UPPER AND LOWER HALLWAYS WITHIN 3 METRES OF BEDROOM DOORS |
| HEAT ALARM to BS 5446: Part 2: 2003 | KITCHEN |
| STANDARD 3.14.2 | VENTILATION AWARENESS IN DWELLINGS |
| TYPE | RECOMMENDED LOCATION |
| CO2 MONITORING EQUIPMENT to EUROPEAN DIRECTIVE 2004/104/EC | PRINCIPAL BEDROOM |
| STANDARD 3.20.20 | CARBON MONOXIDE DETECTION |
| TYPE | RECOMMENDED LOCATION |
| CO DETECTION SYSTEM to BS EN 50291-1:2010 EUROPEAN DIRECTIVE 2004/104/EC | EVERY SPACE CONTAINING A FIXED COMBUSTION APPLIANCE - BOILER INCLUDING EXTENDED FLUES |

- Ground Floor Habitable Compartment Partitions (GROUND FLOOR HALL TO APARTMENT) TO APARTMENT**
- 12.5mm MFR Sound Block to either side of 75mm timber stud.
 - 25mm Super glass Multi-Purpose Acoustic Mat within wall min density of 10kg/m³
- Standard Upper Floor Internal Partitions (1st FLOOR HALL TO APARTMENT & APARTMENT TO APARTMENT)**
- 12.5mm Wallboard 10 to either side of 75mm timber stud.
 - 25mm Super glass Multi-Purpose Acoustic Mat within wall min density of 10kg/m³
- Bathroom Ensuite Internal Partitions (APARTMENT TO BATHROOM)**
- 12.5mm MFR Sound Block to Bathroom side of 75mm timber stud and 12.5mm Wallboard 10 to other side.
 - 25mm Super glass Multi-Purpose Acoustic Mat within wall min density of 10kg/m³



| AMENDMENTS: | | | |
|-------------|---------|---|----|
| I | Oct '18 | Pop-up positions reviewed against current kitchen designs. Heating programmers repositioned to correspond with current heating layouts. CO2 detector position reviewed, fixing height noted on electrical legend. | |
| H | Jun '18 | 140mm En-Suite partition wall reduced to 75mm. | TR |
| G | Feb '18 | External light switch moved in utility room. | |
| F | Feb '18 | Bathroom partition to be moved 28mm to reduce bathroom depth to 1700mm. | |
| E | Dec '17 | General Notes amended. External light switch. Door from a D2 to a D3 to the ensuite. | |
| D | Nov '17 | General Notes amended as per STAS comments. PV requirements reviewed. Robust detailing clarified. | |
| Issue: | Date: | Description: | |

Bellway

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Project:

STANDARD HOUSE TYPES (2015 BUILDING REGULATIONS)

TIMBER KIT - ENHANCED SPEC.

Drawing:

OAKMONT

4 BED DETACHED

1203 SQ. FT.

Scale:

Date:

Drawn:

1:50 / 1:100

JAN '17

-

Drawing No.

Rev.

OAKMONT (2015) (EN) T-KIT-001

I