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SCALE BAR 1/200 ORIGINAL DRAWING SIZE A3	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0 metre	res		80.0 metres	70.0	60.0	50.0	40.0	30.0	20.0	10.0	0.0	SCALE BAR 1/500
SCALE BAR 1/100	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0 metre	es		800.0 metres	700.0	300.0	500.0	400.0	300.0	200.0	100. <b>0</b>	0.0	SCALE BAR 1/1250
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300 mm. thick cavity walls consisting 2 coat waterproof render to match existing on 100 mm. 3.5 kN solid concrete blocks, Armstrong's or similar, external leaf 100 mm. clear cavity with 60 mm. Kingspan insulation or similar and 100 mm. thick Armstrong Airtec 3.5 concrete block inner leaf inner leaf. All walls are to be built in a manner to ensure the building would pass a pressure test to achieve 5.5 M<sup>3</sup> / (h.M<sup>2</sup>) at 50PA or better. Walls are to be dry lined internally with minimum 15 mm. foil backed plasterboard on dabs. Bathroom are to be fitted with high humidity resistant plasterboards.

Fix insulated cavity closers at all jambs and cills to doors and windows and fix tray under cills and lintels to heads of openings.

Cavity wall ties to be Furfix stainless steel specifically designed for 100 mm. cavities at 750 mm. horizontal centres and 450m vertical centres, offset 375 mm. horizontally to form a diamond pattern or as otherwise recommended by the wall insulation manufacturer. Fix additional wall ties every course at all corners and jambs. Seal heads of cavities with inert fireproof material 6mm thick Masonite or similar bedded in mortar and fixed between toes of spars. Fix Catnic Cougar or IG type stainless steel or galvanised lintels or similar designed for 100 mm. cavities. Lintels to have insulated voids and integral cavity trays and minimum bearing of 150 mm. Fix additional bitumen trays in severe weather areas. Fix weep holes in outer leaf at 600 mm. centres above all cavity trays. All openings are to be sealed to comply with the pressure test requirement (5.5 M<sup>3</sup> / (h.M<sup>2</sup>) at 50PA.) Tie new cavity walls to existing with crocodile stainless steel wall connectors or similar, bolted to parent wall and with integral fish tail wall ties built into coursing of new block/brick wall leaves. Cut out minimum 25 mm. wide chase to form space for insulated damp proof course or cavity closer to isolate inner leaf walls from external walls.

Fix expansion joints to cavity walls at maximum 5000 mm. centres. Fix additional wall ties

# Existing external parent wall becoming internal wall.

Strip off external render and insulation and dry line as described above. Make good to insulation and render above new flat roof tray and flashing roof level and vertical wall

100 mm thick solid block walls built up off foundations. Dry line walls as described above. All plasterboard in wet rooms to by high density moisture resistant plasterboard.

# Non-Structural stud partitions: Alternative construction for internal walls.

Fix new stud partitions to layout shown. Partitions to be 100 mm x 47 mm. timber studs at 400 mm. centres built of 100 mm x 75 mm. sole plates with solid bracing at maximum 900 mm. vertical centres. Fix 10kg/m<sup>2</sup> 15 mm thick plasterboard and skim both sides. Wet room plasterboard linings to be humidity resistant plasterboards. Fully insulate between studs with Rockwool insulation to reduce the passage of airborne sound. Bolt vertical studs to adjacent walls to provide lateral restraint to walls and studs to form rigid grid. Fix double joists under partitions parallel to joists and solid noggins under partitions

All electrical installations are to be designed and carried out by a suitably qualified Electrician or Electrical Engineer, the system is to be designed and tested as defined by BS 7671: 2001 Chapter 13 or an equivalent standard. These works are to be undertaken by a person registered with an electrical self-certification scheme or alternatively by a suitably qualified person with a certificate of compliance produced by that person to Building Control

Full details are to be submitted to Building Control prior to installation or the Electrician must be registered with a self-registration scheme authorized by the Secretary of State. Where self-certification is accepted the works commissioners should receive a signed Building Regulation self-certification certificate after installation and testing.

All materials used in the installation are to bear the "CE" mark for the relevant EEC directive regarding the use of Electric supplies, Low voltage and extra low voltage supplies. All electric design work is to take into account the requirements of all other Parts of the Building Regulations which may be affected by the electrical installations i.e. Part M

All rooms are to be provided with dedicated low energy lighting. All external lighting is to be movement censor controlled and fitted with dedicated high efficiency light fittings.

The exact position of Electric lighting and power points to be agreed with the client prior to installation, The qualified electrician to advise the client on the minimum requirements of Building Control and the electrical specification required to meet the requirements of Part M

## Building Regulations Part J Heating and flues

All works carried out to the gas supply and heating systems are to be carried out, commissioned and registered by a suitably qualified gas installer in a "Gassafe"

Works include test existing systems for current compliance and capacity, extend heating system to include for two new radiators in shower room and bedroom and hot and cold water services in new shower room.

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SCALE BAR 1/100	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0 metr	es		400.0 metres	350.0	300.0	250.0	200.0	
SCALE BAR 1/50	0.0		1.0		2.0		3.0		4.0		5.0 metre	es							
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# New Roof

### Roof Construction Fabric.

The roof type will be a warm roof with insulation over the roof decking. Single ply fibre backed roofing membrane, Sanafil or similar, fixed by a

manufacturer recommended and approved installer on 140 mm Celotex XR400 adhered to 25 mm thick external quality plywood roof decking.

All roof fabric details fixtures and fittings roof outlet gully etc. are to be strictly as recommended and detailed by the roof fabric product manufacturer/installer. Fix code 4 lead flashing over up turned roof fabric at parent wall abutments to form weather sealed abutments and copings.

Roof to fall across the main parent dwelling to the new enclosed yard rainwater gutter downpipe and yard gully at minimum gradient of 1in 40 fall or as otherwise recommended by the fabric manufacturer.

# Roof Structure

Roof to have minimum 1 in 40 falls across the roof to the rainwater gutter. Roof structure to be minimum 50 mm x 50 mm timber tapering timber firrings on 197 mm x 50 mm c16 timber flat roof joists at 400 mm centres supported on 100 mm x 50 mm wall plate on mortar bed and fixed to head of inner leaf of cavity walls. Fix wall plates with BAT Metal straps at 1500 mm centres. Fit BAT MS 305 galvanised steel straps to head of all new walls and across minimum 3 no. joist parallel or along the side of joists perpendicular to walls to provide lateral supports to the structure.

Line ceilings with 500 gauge Visqueen vapour barrier and 25mm/12.5mm (15mm) combination insulation and plasterboard and skim ceiling with 3 mm plaster skim finish.

### Leadworks to roofs.

All lead gutters, valleys, trays, soakers and flashings are to be in the correct code thickness as recommended by the Lead Sheet Manufacturer's Association and produced and fixed strictly in accordance with their published recommended details.

Where non lead trays are used, they should have a patent agreement certificate confirming Building Regulations compliance.





CA14 5TG FOR MR DENIS SHEPHERD EXTENSION FOR ACCESSIBLE BATHROOM AND BEDROOM

Date: OCT 2021 DWG No. 21/03141/06

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# SECTIONAL ELEVATION AA

### New Ground floor to extension. Ground Floor U Value 0.14 W/M<sup>2</sup>K

Allow for flooring finish thickness on 65 mm minimum sand cement screed with A146 anti crack mesh 500 gauge Visqueen vapour barrier on minimum 100 mm. Celotex FF4000 floor insulation on concrete beam and block reinforced concrete floor decking built into inner leaf of new external walls and double trimmed adjacent to parent wall. Final design calculations of reinforced concrete beams to be provided to Building Control by the manufacturer.

Ensure minimum airspace under beams of 150 mm and fix telescopic air vents throughout cavity walls to vent sub floor space. Vents to be at maximin 2000 mm centres throughout perimeter of floor.

Fix minimum 25 mm. thick insulation and expansion strip to perimeter of all slabs adjacent to exterior walls. Visqueen Damp Proof Membrane is to overlap D.P.C. in inner leaf of external walls to form a permanent damp proof barrier.

### New external terrace.

Fix new fully treated 125 mm x 34 mm timber decking boards on 197 mm x 50 mm external quality timber joist at 400 mm centres built into outer leaf of extension and supported on solid brick dwarf walls.

Fix timber post and rail balustrade around raised decking. The balustrades are to be fixed in a manner that will support a horizontal loas of 0,76 KN per linier metre. 25 mm square railings are to be at equal centres no greater than 100 mm apart. Railings are to be at equal 100 mm centres.

SCALE BAR 1/200 ORIGINAL DRAWING SIZE A3	0.0	0.2	.04	0.6	0.8	1.0	1.2	1.4	1.6	1.8	2.0 metres		80.0 metres	70.0	60.0	50.0	40.0	30.0	20.0	10.0	0.0	SCALE BAR 1/500
SCALE BAR 1/100	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0 metres		400.0 metres	350.0	300.0	250.0	200.0	150.0	100.0	50.0	0.0	SCALE BAR 1/2500
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DRAINS

**EXTENSION** 

**56 BARFS ROAD DISTINGTON CUMBRIA** 

CA14 5TG FOR MR DENIS SHEPHERD

Reduce ground levels in area of works and set aside material excavated for reuse landscaping the garden and

Foundation trenches to be excavated to suit dimensions indicated and taken down to virgin ground for inspection by

Depth may vary according to site conditions and site contours, but the top of concrete must be minimum 450 mm. below the finished ground level. Strip foundations to be generally 600 mm. wide x 225 mm. min. deep to external cavity walls and 450 mm. x 225 mm. min. for 100 mm. load bearing internal walls or with minimum 150 mm. toe

Form all steps in level of foundations in vertical increments of 225 mm. to suit block coursing, and with min 300 mm

Concrete to be premixed C20P as described in tables 1 and 2 of BS EN 206:2013 + A1:2016 maximum size aggregate to be 20 mm. All concrete shall be distributed and placed in position as quickly as practicable by a method which precludes contamination, segregation or loss of materials, compaction shall be complete before the initial set commences. Partial set concrete shall not be reworked or used. All concreting shall be continuous to New access chamber completion or to an approved construction joint. During the first seven days the concrete shall be protected by with steel rim and covewhatever means to prevent over rapid drying. Steps in the foundations are overlap by twice the height of the step or by 300 mm. whichever is the greater and should not be of greater height than the thickness of the foundation. In

Tie new foundation horizontally to existing foundations, by inserting 3 no. 9 mm. twisted mild steel bars in a dovetail pattern into the face of the existing strip foundations and install new concrete foundations to fully surround steel connections, to form a horizontal tie between the two foundations, to prevent uneven settlement.

300 mm. thick cavity walls consisting 100 mm. thick solid concrete block cavity back filled with concrete to ground level max 225 mm below damp-proof course and 100 mm. solid concrete block inner leaf. Cavity wall ties to be Furfix stainless steel or similar specifically designed for 100 mm. cavities at 750 mm. horizontal centres and 450m vertical centres, offset 375 mm. horizontally to form a diamond pattern. Fix additional wall ties every course at all corners and jambs. Between ground level and floor level, fix bituthene Hyload DPCs to both inner and outer leaves of walls at min of 150 mm. above ground level. Lay facing bricks from one course below finished ground level dpc

Generally, 1 brick thick facing brick with soldier course coping. Where walls retain ground thicken wall to be

Alløw for flooring finish thickness on 65 mm minimum sand cement screed with A146 anti crack mesh 500 gauge Xisqueen vapour barrier on minimum 100 mm. Celotex FF4000 floor insulation on concrete beam and block reinforced concrete floor decking built into inner leaf of new external walls and double trimmed adjacent to parent

Final design calculations of reinforced concrete beams to be provided to Building Control by the manufacturer. Ensure minimum airspace under beams of 150 mm and fix telescopic air vents throughout cavity walls to vent sub floor space. Vents to be at maximin 2000 mm centres throughout perimeter of floor.

Fix minimum 25 mm. thick insulation and expansion strip to perimeter of all slabs adjacent to exterior walls. Visqueen Damp Proof Membrane is to overlap D.P.C. in inner leaf of external walls to form a permanent damp

General Drainage Specification: All new drains will be designed to comply with BS

New soil and surface water drainage: Hepworth Supersleeve or similar spun clay 100/150/225 mm. diameter pipes with u.p.v.c. flexible sealed collars laid in clear square cut trenches at a gradient of not less than 1: 60 falls. Carefully back fill trenches with layered back fill strictly in accordance with the manufacturer's instructions. All fittings including manholes, inspection chambers, and back inlet gullies etc. to be from the same range and supplier. Set all preformed gullies and chambers on 150 mm. concrete bases and surround with 150 mm. sleeves. Fit gullies with plastic or galvanized grills. Fit manholes and inspection chambers with steel rims and covers, as supplied by the manufacturer set in mortar surrounds. Set manhole covers onto preformed r.c. covers where manholes internal size is greater than 450 mm. x 600 mm. which is the minimum acceptable internal dimension for a 900 mm. deep manhole. Where drains are less than 1500 mm deep in traffic areas surround pipes in 150 mm concrete sleeve with Flexcell joints at each pipe joint or as otherwise recommended by the pipe manufacturers. New drains under concrete floor are to be surrounded in concrete sleeve with expansion joints as described

All drain lines are diagrammatic, and the final layout should be agreed on site with the Building Control Department.

OCT 2021

DWG No. | 21/03141/08

Date:

Connect new bathroom sanitary fittings and rainwater back inlet trapped gulley direct to existing combine/foul surface water sewer with new access chamber at insertion





Flat roof: Grey single ply membrane. **Doors & windows.** White upvc double and triple glazed. Boundaries: All existing boundaries retained. Frontage: 24.900 Metres approximately (measure at road kerb. Site Area: 381.00 SQ Metres House Height. Floor to ridge 5.560 Metres House Height proposed. Floor to ridge 5.560 Metres Living Room: 19.700 Sq Metres Existing Ground floor: 44.29 Sq Metres Proposed Ground floor: 72.70 Sq Metres Existing First floor: 44.29 Sq Metres Proposed First floor: 44.29 Sq Metres 88.58 Sq Metres 116.99 Sq Metres 2 Spaces

