

Health and Safety Notice
Client and contractor to be aware:

1. The design has elements of working at height
2. The design has drainage elements
3. The design includes demolition tasks
4. The design has trenching works at various depths
5. The design has manual handling tasks
6. The design requires vehicle movements and crane lifts

H4 BUILDING OVER OR NEAR PUBLIC SEWERS

The developer is to consult the Local Sewers Undertaker when constructing, extending or underpinning over a sewer or within 3m of the centreline of sewer shown on the sewerage undertakers sewer records and when the following applies:

- The building or extension is to be constructed over a manhole or inspection chamber or other access fitting on a sewer.
- The length of the drain or sewer under the proposed building or extension will exceed 6m.
- The Building or extension is to be constructed over or within 3m of any drain or sewer more than 3m deep or greater than 225mm in diameter.

PUBLIC SEWER REQUIREMENTS

Special measures may be required for the following:

- Soils easily eroded by ground water leaking into the drain or sewer, e.g., silty sands, saturated silts and peat.
- A rising main (except those used for the building only).
- Any sewer or drain constructed from brick or masonry.
- Drains or sewers in poor condition.
- Sites prone to subsidence.
- (Advice to be sought from the Sewerage undertaker).

Other provisions that apply to Sewers:

- Any repairs or replacements of a sewer public or drain is to be carried out by the sewerage undertaker.
- Access points to sewers to be in places where they are accessible and apparent for use in an emergency.
- All drains or sewers running under a building to be provided with a minimum of 100mm of granular fill around the pipe.
- The crown of a pipe is within 300mm of the underside of a floor slab special protection to be provided.
- Where a pipe runs less than 2m below a building the foundation is to be extended so that the pipe passes through the wall
- Where the pipe is more than 2m deep to the invert and passes beneath the foundation, the foundation is to be designed as a lintel, spanning over the drain, the lintel should span 1.5m either side of the pipe.
- A drain trench is not to be excavated lower than the foundations of any building nearby.

PIPES PASSING THROUGH TRENCH FOUNDATIONS

The load-bearing capability of foundations must not be affected where services pass through. The pipe work should be sleeved and be provided with 'rocker pipes' of a distance of 150mm either side of the foundation concrete. The 'rocker pipes' should have flexible joints and be a maximum length of 600mm. Alternatively, pipework should pass through a suitably strengthened opening in the foundation, i.e. foundation shuttered and a provided with suitable lintel over the pipe allowing for sufficient space for movement to ensure that the drain is capable of maintaining line and gradient. Opening should be masked with granular backfill (pea shingle) around pipe. DPC to be provided as required by BCO. Advice from Building Control to be sought on suitability of pipe running through foundation before construction.

PIPES PASSING THROUGH WALLS

Walls above ground drainage and plumbing to comply with BS EN 12054-2 for sanitary pipework. All drainage to be in accordance with Part H of the Building Regulations. Wastes to have 75mm deep anti vac bottle traps and rodding eyes to be provided at changes of direction. Inspection chambers to have built down double sealed covers in buildings and be adequate for vehicle loads in driveways.

UNDERGROUND FOUL DRAINAGE

Underground drainage to consist of 100mm diameter UPVC proprietary pipe work to give a 1:40 fall. Surround pipes in 100mm pea shingle. Provide 600mm suitable cover (900mm under drives). Shallow pipes to be covered with 100mm reinforced concrete slab over compressible material. Provide rodding access at all changes of direction and junctions. All below ground drainage to comply with BS EN 1401-1.

INSPECTION CHAMBERS

Underground quality proprietary UPVC 450mm diameter inspection chambers to be provided at all changes of level, direction, connections and every 45m in straight runs. Inspection chambers to have built down double sealed covers in buildings and be adequate for vehicle loads in driveways.

ABOVE GROUND DRAINAGE

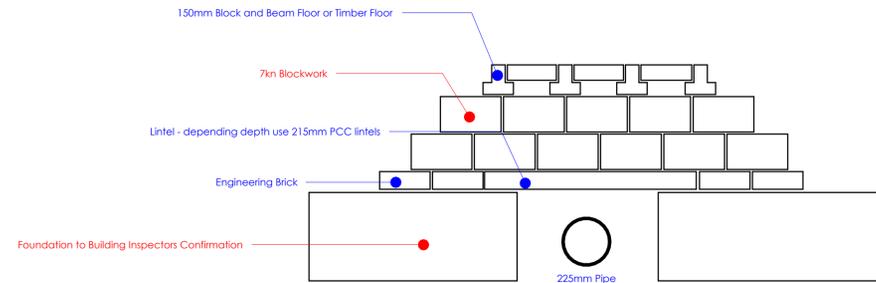
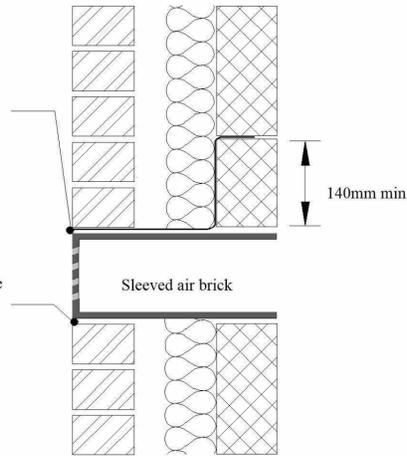
All new above ground drainage and plumbing to comply with BS EN 12054-2 for sanitary pipework. All drainage to be in accordance with Part H of the Building Regulations. Wastes to have 75mm deep anti vac bottle traps and rodding eyes to be provided at changes of direction.

Size of wastes pipes and max length of branch connections (if max length is exceeded then anti vacuum traps to be used)
Wash basin - 1.7m for 32mm pipe 3m for 40mm pipe
Bath/shower - 3m for 40mm pipe 4m for 50mm pipe
W/C - 6m for 100mm pipe for single WC
All branch pipes to connect to 110mm soil and vent pipe terminating min 900mm above any openings within 3m.
Or to 110mm upvc soil pipe with accessible internal air admittance valve complying with BS EN 12380, placed at a height so that the outlet is above the trap of the highest fitting.
Waste pipes not to connect on to SVP within 200mm of the WC connection.
Supply hot and cold water to all fittings as appropriate.

CAVITY TRAY OVER SLEEVED AIR BRICK

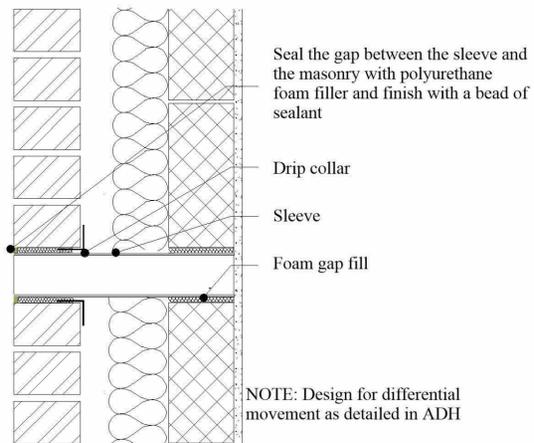
The dpc should extend 150mm beyond each side of the air brick

Seal the gap between air brick and the masonry with either polyurethane foam filler or make good with mortar and finish with a bead of sealant

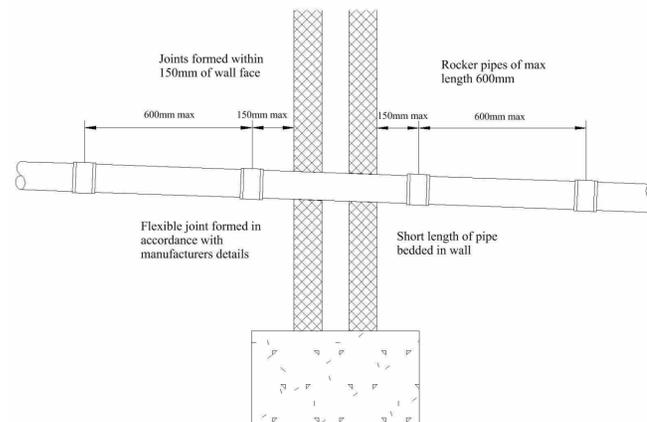


For Visualisation Purposes Only - Do Not Scale

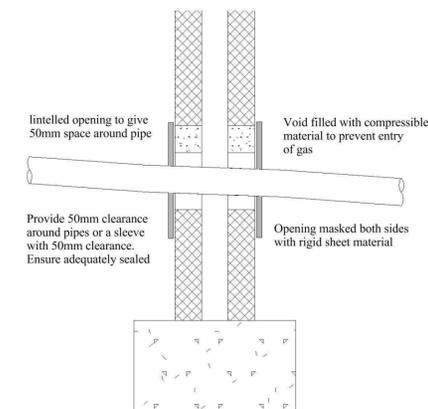
DRIP COLLAR ON CIRCULAR PIPE



PIPES BEDDED IN WALLS



PIPES PASSING THROUGH WALL (LINTEL)



1 Single Power Socket	FIRE Fire Alarm Panel	■ Distribution Board
2 Double Power Socket	SS Shaver Socket	⊙ Smoke Detector
C Cooker Point	SP Speaker Point	⊕ Heat Detector
Unswitched Fused Spur	TV TV Aerial Point	⊗ Carbon Monoxide Detector
External Power Socket	FB Floor Box	⊗ Extract fan
Telephone Point	FS-2 Floor Socket	⊙ Underfloor heating control
Cat 6 Data Point	⊙ Passive Extract	
Extract Vent	⊙ Mechanical Extract	

Wall Structure Key:

	Cavity Wall: Render
	Cavity Wall: Face Brick
	Block Work: 100mm
	Studwork Wall: 75mm
	Metal Frame: 70mm
	Solid Brick Wall: 215mm
	Solid Block Wall: 215mm
	Structural Opening
	Walls Removed

Please note:
All drawings are for the purposes of planning only unless marked for construction.

All builders to site measure to confirm measurements.

Report all discrepancies to the person named below, do not proceed without instruction.

BRO take no responsibility should any drawing/s unless specified are used for building purposes and measurements aren't checked on site.

All drawings remain the property of BRO Architecture

Drainage Key

S	Storm Drainage
MH	Manhole
FD	Foul Drainage
SVP	Soil Vent Pipe
GP	Gulley Pot
RWP	Rainwater Pipe
AD	ACO Drain

Ducting Colour & Use

Red	Electric cable
Yellow	Gas Pipe
Blue	Water pipes
Green	Data/Comms
Grey	BT
Purple	Security - Cameras
Orange	Garden Lighting non Security

DRAWING NUMBER

B1-5



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CLIENT

Mr Thorne

SITE ADDRESS

1 Tally Ho Lane Guiting
Power GL54 5TY

PROJECT NAME

Proposed Rear Extension

DRAWING NAME

Proposed Build Over Specification

DATE
08/14/22

REV

DRAWN BY
SH

SCALE (@ A1)

CHECKED BY
Checker

PROJECT NUMBER
SH/BRO