



THIS LAYOUT SHOULD BE USED FOR:
 All private building drawings - position and levels
 All drainage and retaining works - position and levels
 Road names and postal numbers
 Street lighting and other furniture/signage

THIS LAYOUT SHOULD NOT BE USED FOR:
 Adoptable sewer and highway works - position and levels
 Footing and drive positions or materials
 Private parking paths or other
 House types and positions

MARSHALS ARE TO BE CONSULTED THROUGHOUT THE CONSTRUCTION OF THE POROUS PAVING SYSTEMS TO ENSURE COMPLIANCE WITH THEIR STANDARDS. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE REQUIREMENT FOR THE POROUS PAVEMENT FORMATION TO FALL TOWARDS THE OUTFALL

INFILTRATION POROUS PAVING SYSTEM TO BE UNDERLAIN WITH A PERMEABLE MEMBRANE (TERRAM 1000 OR SIMILAR APPROVED)

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

- Notes**
- All levels relate to Ordnance Datum.
 - For adoptable roads and sewer details refer to drawings S_5000 series.
 - Building Drainage**
 3. All connections to adoptable manholes from private building drainage to be 150mm diameter pipes unless otherwise specified.
 - All house drainage to be 100mm dia unless otherwise stated, and laid in accordance with current Building Regulations and BS8001:1995.
 - The Contractor is to refer to Marshalls standard details for connection specifications between surface water manholes and the porous paving system.
 - All drainage products are to be Polypropylene.
 - Pipe bedding material is to be Class B with 150mm minimum thickness surround.
 - Backfill is to be in situ with selected fill free of stones larger than 40mm, lumps of clay over 100mm, timber, broken material and vegetable matter.
 - Pipe protection of house drainage runs is required in accordance with the Typical House Drainage Details drawing. The contractor shall satisfy themselves and agree with the Site Manager the actual extent of pipe protection required.
 - Pipes entering and leaving manholes/inspection chambers shall include a rocker pipe, 600mm in length.
 - Blockwork to chambers shall be Class B Engineering to BS3921.
 - Rainwater pipes are to be laid on side elevations whenever possible.
- Remarks**
- All retaining walls with a height of 600mm or greater are to include 1.2m high post and rail fencing unless located in rear gardens. Similar retaining walls in rear gardens are to include 900mm height picket fence.
 - All flights of steps to primary level access, with more than 2 steps are to be provided with handrails, except where the steps are 900mm or more apart.
 - Block retaining walls are to be used in preference to gabion blocks for front garden areas.

KEY

- F3 Proposed Fuel Sewer
- S3 Proposed Highway Drain
- 150mm non perforated hard drain/riser pipe beneath porous paving
- 150mm non kil pipe beneath impermeable margins
- Highway Gully
- Marshalls block paving
- Carriageway - Permeable
- Footway/Service verge - Impermeable
- Refer to block details for colour & bend. 40mm block in private areas
- Direction of falls of porous paving formation
- Where no hatch shown, pits, chases and courtyards are to be constructed using Boveis Homes standard aluminium drive construction with sub base in accordance with porous block paving.

Drainage Details (Refer to Engineering Notes/Specifications)

- Small Foul I.C. (225mm dia. Depth to insert 450-600mm)
- Medium Foul I.C. (450mm dia. Depth to insert 600-1000mm)
- Non Entry I.C. (330mm dia. Depth to insert 1000-3000mm)
- Large Foul I.C. (1200x750mm or PC steps. Depth to insert 1000-1500mm)
- Small Surface Water I.C. (225mm dia. Depth to insert 450-600mm)
- Medium Surface Water I.C. (450mm dia. Depth to insert 600-1000mm)
- Non Entry I.C. (330mm dia. Depth to insert 1000-3000mm)
- Large Surface Water I.C. (1200x750mm or PC steps. Depth to insert 1000-1500mm)

Other Symbols:

- Manholes Sump
- Manholes Spreader
- 200 Litre Water Butt
- Pitless Gully
- Drainage Channel
- Building Eye

Rev	Date	Details	By
D	10.01.15	Plot engineering details updated following Bovis comments.	SD
C	22.12.14	Plot engineering details updated following Bovis comments.	SD
B	21.11.14	Plot engineering details updated following Bovis comments.	RM
A	14.11.14	Plot engineering details updated following Bovis comments.	RM

Drainage Authority Approval Date _____
 Highway Authority Approval Date _____

Do not scale from this drawing. Use written dimensions only. When shown relationships between grid levels and ground levels are to be checked on site. Any discrepancy or unexpected modification is to be reported to Design and Engineering Director.
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Bovis Homes Central Region
 Bromwich Court
 Highway Point
 Gorsey Lane
 Coleshill
 B46 1JU
 Tel: 01675 437 000
 Fax: 01675 437 094
 DX: 728340 Coleshill 2

Brookbanks Consulting
 6150 Knights Court, Solihull Parkway, Birmingham B37 7WY
 Tel (0121) 329 4330 Fax (0121) 329 4331
 www.brookbanks.com

SITE: KINGSMERE, BICESTER KM4

DRAWING TITLE: ENGINEERING LAYOUT SHEET 1

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