

General Notes:

- A. DO NOT USE THIS DRAWING IN ISOLATION. This drawing has been prepared as part of a set, and must therefore be read in conjunction with all other drawings. Any discrepancies must be reported to the engineer prior to commencing works.
- B. Third party information is used to prepare the engineering design (including architectural layout, ground investigation, existing utilities records, and specialist design items). The engineering design must therefore be read in conjunction with all third party information prior to commencing work. Queensberry Design Ltd are not responsible for any third party information or details.
- C. House type working drawings are to be used in conjunction with the plot setting out drawing.
- D. Drawing status will remain preliminary until full technical approval is received from local authority and sewerage undertaker. Works commenced prior to technical approval are done so at risk and may be subject to change.
- E. The contractor is expected to prepare appropriate construction method statements for all aspects of appointed work. This should include any temporary protection works.
- F. Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be assessed by the ground worker and landscaper during construction and placement of gardens on an individual plot basis. If land drainage designs are required, they should be appointed prior to plot completion.
- G. The contractor is expected to cross check all drainage inverts prior to commencing work. This may involve completion of trial holes if invert levels have been interpolated.

Highways

- 1. All highway works to be carried out in accordance with the current local authority design guide and specifications.
- 2. All excavations below proposed and existing highways to be back filled with granular Type 1 sub-base and well compacted in layers not exceeding 150mm, unless otherwise agreed.
- 3. Highway authority to be notified by the contractor prior to the commencement of works.

Manholes

- 1. All manhole drainage works to be in accordance with the water authorities publication - "Sewers For Adoption 6th Edition" as well as the approved drawings.
- 2. Precast concrete manhole flags to comply with the relevant provisions of BS5911: Part 200.
- 3. All brickwork to be Class B engineering complying with the relevant provisions of BS 3921. Concrete tanks may be used if their specification is the same as Class B engineering bricks. Please seek approval from relevant water authority before using.
- 4. Manhole covers and frames shall comply with the relevant provisions of BS EN 124 and be of a non-rocking, non-ventilating design.
- 5. Ladders that are required in Type A manholes are to comply with "Sewers For Adoption 6th Edition".
- 6. Concrete must be either C20 sulphate resistant portland cement with high strength concrete topping to the benching or C35 ordinary portland cement.
- 7. 150mm Concrete surround is required around pipes where the depth from finished surface to soffit of pipe is less than 1200mm. This may be reduced to 100mm within open space.
- 8. The location of existing drainage that is within close proximity to the proposed site works, which is not to be diverted, should be confirmed by the contractor and reported to the developer to ensure it corresponds to that shown on the engineering layout and that no proposed works are affected.

The position, line and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies must be reported to the engineer immediately.

The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the local sewerage undertaker. The contractor is expected to apply for relevant permits prior to commencing the work.

- 9. Roads and sewers contractor must inform water authority prior to works commencing

Existing Services

Any existing services which may be affected by the proposed works should be located by means of a hand dig in close liaison with the statutory service authorities. The contractor shall inform the developer of any services that may affect the proposed design. Contractor to notify statutory service authorities prior to commencement of work.

As Constructed Information

- 1. Contractors responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract:
 - 2. Existing highway to be removed and replaced as a footway.
 - 3. New gully positions and connections.
 - 4. Position and depth of service lines.
- 2. Existing highway to be used as road/footway. Resurfacing and/or full reconstruction required.

New highway construction (as road/footway/verge)

278 NOTES:-

- Existing road gullies are to be replaced due to widening of road, existing connection to highway drain to be used.
- Existing highway drainage to be investigated by Taylor Wimpey to confirm that it is suitable for use in current location and condition.

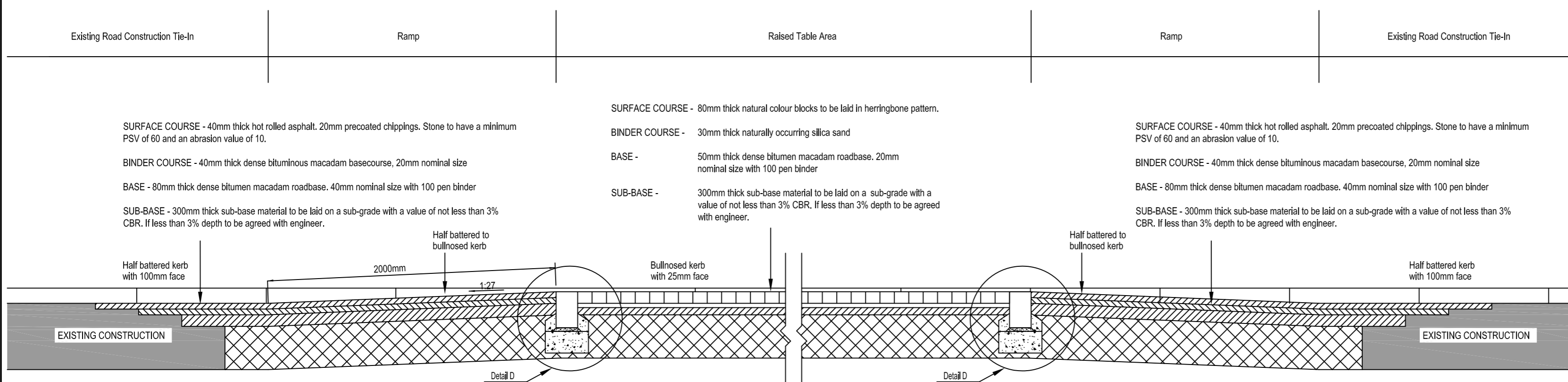
Rev A - S278 gully notes added following comment from client. JT 24 07 15

Drawing Status: **PRELIMINARY**

Title: **Barratt Homes & Taylor Wimpey
Luke's Lane, Monkton Phase 2
S278 Sections Sh2**

Scale: 1:500 / As Noted @ A1
Date: July 2015
Drawn by: JT
e-mail: jamie.thompson@queensberrydesign.co.uk

Drawing no.: QD1081-16-12
Revision: A
Checked By: -



LUKE'S LANE RAISED TABLE SECTION
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precast chippings. Stone to have a minimum PSV of 60 and an abrasion value of 10.
BINDER COURSE - 40mm thick dense bituminous macadam basecourse, 20mm nominal size
BASE - 80mm thick dense bitumen macadam roadbase, 40mm nominal size with 100 pen binder
SUB-BASE - 300mm thick sub-base material to be laid on a sub-grade with a value of not less than 3% CBR. If less than 3% depth to be agreed with engineer.

SURFACE COURSE - 60mm thick natural colour blocks to be laid in herringbone pattern.
BINDER COURSE - 30mm thick naturally occurring silica sand
BASE - 50mm thick dense bitumen macadam roadbase, 20mm nominal size with 100 pen binder
SUB-BASE - 300mm thick sub-base material to be laid on a sub-grade with a value of not less than 3% CBR. If less than 3% depth to be agreed with engineer.

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precast chippings. Stone to have a minimum PSV of 60 and an abrasion value of 10.
BINDER COURSE - 40mm thick dense bituminous macadam basecourse, 20mm nominal size
BASE - 80mm thick dense bitumen macadam roadbase, 40mm nominal size with 100 pen binder
SUB-BASE - 300mm thick sub-base material to be laid on a sub-grade with a value of not less than 3% CBR. If less than 3% depth to be agreed with engineer.