

- KEY:**
- Existing highway to be removed and reinstated as verge.
 - Existing highway to be re-used as road or 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.



ROUNDABOUT SECTION A-A
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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

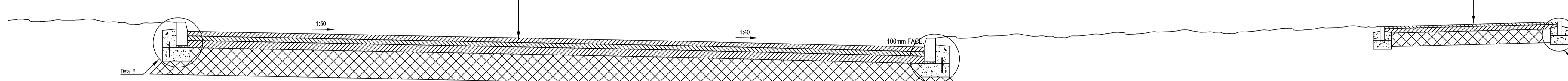
BASE - 80mm thick dense bituminous macadam roadbase, 40mm nominal size with 100 per binder

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 - 25mm Dense wearing course macadam, 6mm nominal size

BINDER COURSE - 50mm of 20mm nominal size, open graded base course macadam with a bitumen binder.

SUB-BASE - 150mm Granular type 1 material to be increased to 200mm where vehicles are likely to over run footway.



CARRIAGEWAY WIDENING SECTION B-B
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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

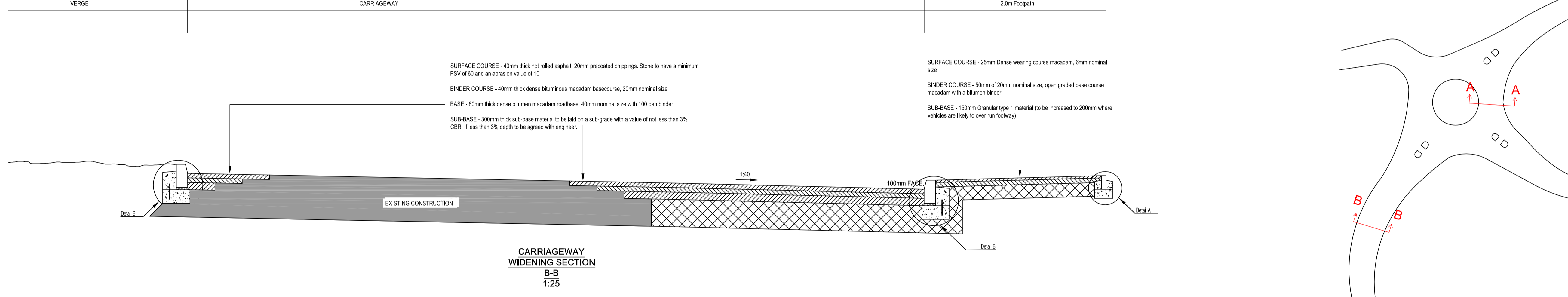
BASE - 80mm thick dense bituminous macadam roadbase, 40mm nominal size with 100 per binder

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 - 25mm Dense wearing course macadam, 6mm nominal size

BINDER COURSE - 50mm of 20mm nominal size, open graded base course macadam with a bitumen binder.

SUB-BASE - 150mm Granular type 1 material to be increased to 200mm where vehicles are likely to over run footway.



MONKTON LANE WIDENING TYPICAL DRIVE CROSSING SECTION
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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

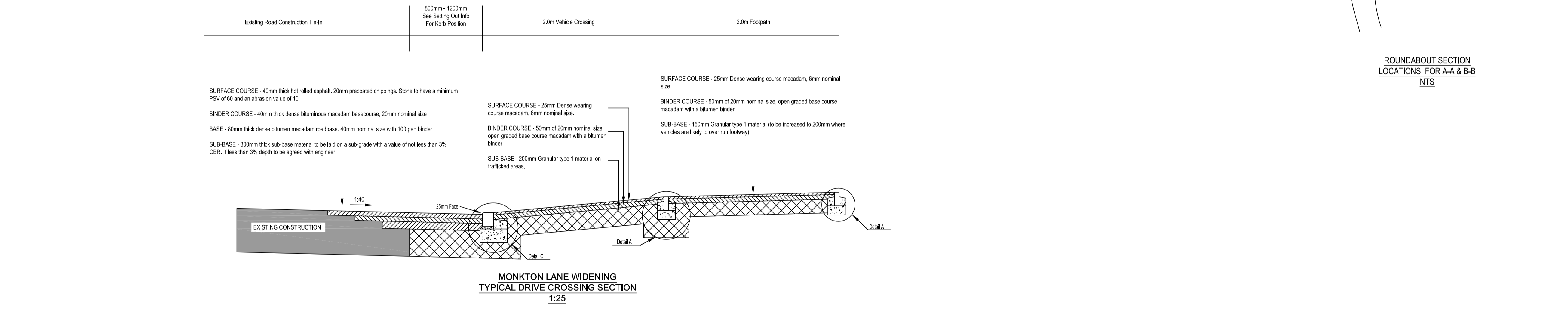
BASE - 80mm thick dense bituminous macadam roadbase, 40mm nominal size with 100 per binder

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 - 25mm Dense wearing course macadam, 6mm nominal size

BINDER COURSE - 50mm of 20mm nominal size, open graded base course macadam with a bitumen binder.

SUB-BASE - 150mm Granular type 1 material to be increased to 200mm where vehicles are likely to over run footway.



MONKTON LANE WIDENING TYPICAL VERGE/FOOTPATH SECTION
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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

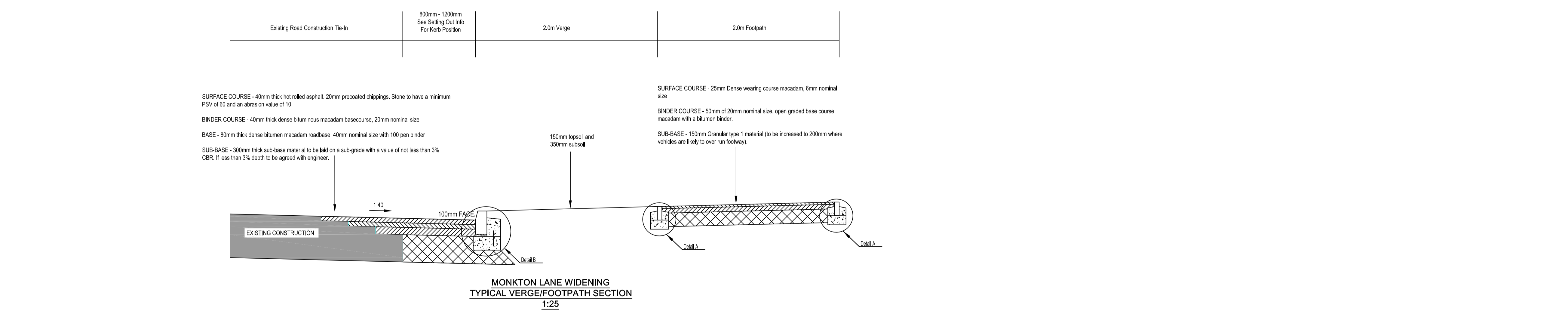
BASE - 80mm thick dense bituminous macadam roadbase, 40mm nominal size with 100 per binder

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 - 25mm Dense wearing course macadam, 6mm nominal size

BINDER COURSE - 50mm of 20mm nominal size, open graded base course macadam with a bitumen binder.

SUB-BASE - 150mm Granular type 1 material to be increased to 200mm where vehicles are likely to over run footway.



MONKTON LANE WIDENING TYPICAL PARKING BAY SECTION
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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 bituminous macadam roadbase, 40mm nominal size with 100 per binder

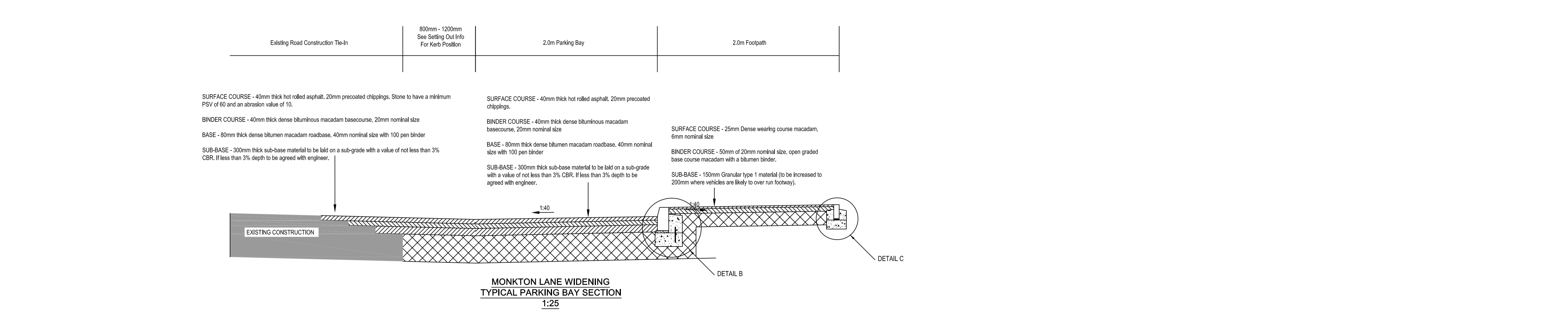
SUB-BASE - 300mm thick sub-base material to be laid on a sub-grade with a value of not less than 3% CBR. If less than 3% depth to be agreed with engineer.

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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 bituminous macadam roadbase, 40mm nominal size with 100 per 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.



MONKTON LANE RAISED TABLE SECTION
1:25

SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted 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 bituminous macadam roadbase, 40mm nominal size with 100 per 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.

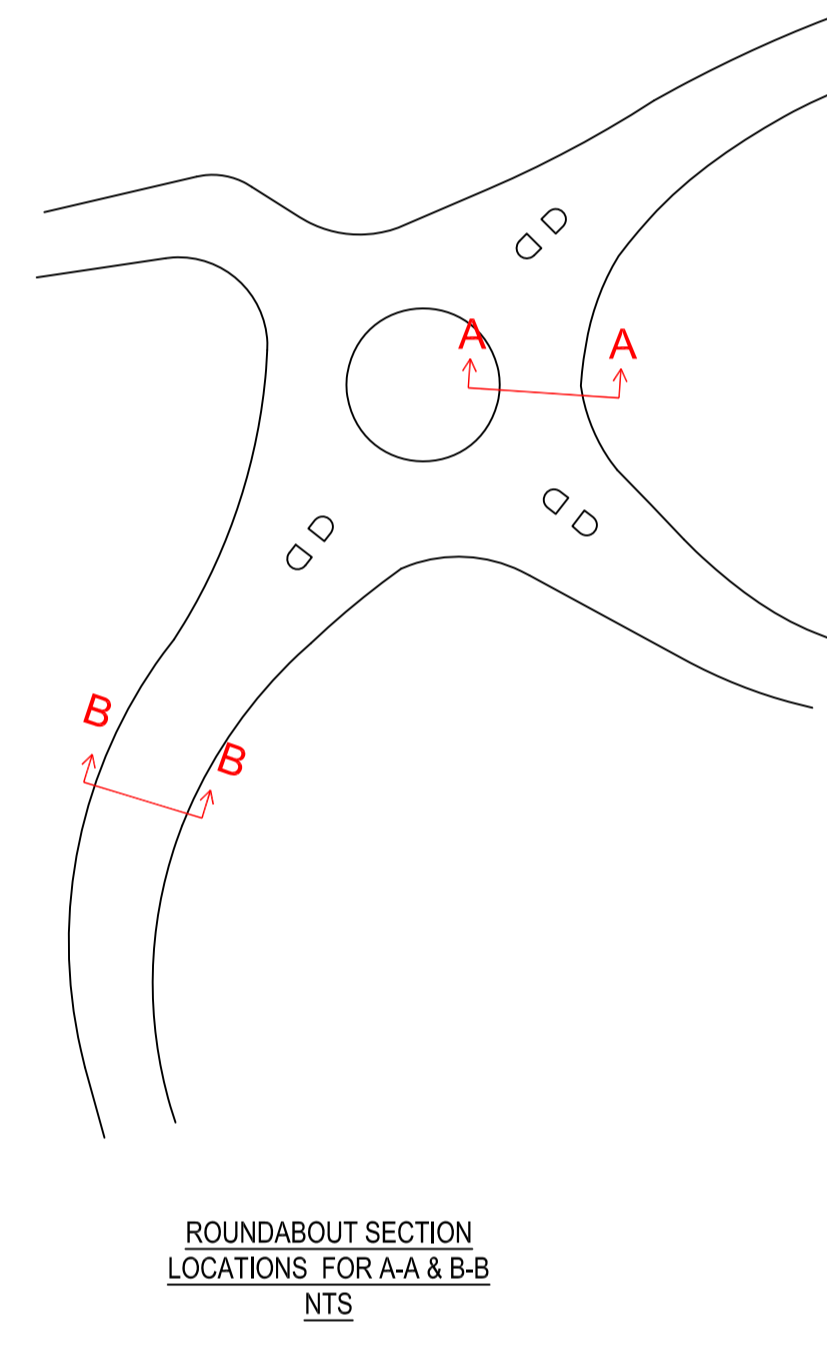
SURFACE COURSE - 40mm thick hot rolled asphalt, 20mm precasted chippings. Stone to have a minimum PSV of 60 and an abrasion value of 10.

BINDER COURSE - 40mm thick dense bituminous macadam basecourse, 20mm nominal size

BASE - 80mm thick dense bituminous macadam roadbase, 40mm nominal size with 100 per 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.

- General Notes:**
- 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.
 - This drawing is intended to be used in conjunction with the engineering design (including architectural layout, ground investigation, existing utility records, and specialist design items). The engineering design must therefore be read in conjunction with all other drawings prior to commencing work. Quaternary Design Ltd is not responsible for any third party information or details.
 - How to type working drawings are to be used in conjunction with the plot setting out drawing.
 - Drawing status will remain preliminary until full technical approvals received from local authority and drainage contractor. Works commencing prior to technical approval are done at our risk and may be subject to change.
 - The contractor is expected to prepare appropriate construction method statements for all aspects of approved work. This should include any temporary protection works.
 - Land drainage is not permitted to discharge into the public sewer network. Any need for land drainage should be discussed by the ground water and drainage engineer during construction and placement of gullies on an individual plot basis. If land drainage designs are required they should be approved prior to plot completion.
 - The contractor is expected to cross check all drainage levels prior to commencing work. This may include completion of trial holes if practicable have been.
- Highways:**
- All highway works to be carried out in accordance with the current local authority design guide and specification.
 - All excavation below proposed and existing highways to be back filled with granular type 1 sub base and well compacted to a minimum of 100mm, unless otherwise agreed.
 - Highway authority to be notified by the contractor prior to the commencement of work.
- Automobile Drainage:**
- All automobile drainage works to be in accordance with the water authority's publication "Sewers for Adoption (6th Edition) amended as approved drawings.
 - Final concrete manhole rings to comply with the relevant provisions of BS5911: Part 200.
 - All drainage to be Class B engineering complying with the relevant provisions of BS 5925. Concrete blocks used must conform to the same as Class B engineering blocks. Please seek approval from relevant water authority before using.
 - Manhole covers and frames shall comply with the relevant provisions of BS EN 124 and be of a non-slip, non-ventilating design.
 - Ladders that are required in Taps A manholes are to comply with "Sewers for Adoption (6th Edition)".
 - Concrete must be either C20 suitable roadwork Portland cement with high strength concrete topping to the bedding, or C20 ordinary Portland cement.
 - 150mm Concrete surround to required around gullies where the depth from finished surface to top of gully is less than 1200mm. This may be reduced to 900mm where open space.
 - The location of existing drainage that is within close proximity to the proposed site works, which is not to be disturbed, should be confirmed by the contractor and reported to the developer to ensure it is compatible with that shown on the engineering layout and that no proposed works are affected.
- The position, size 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 connector of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the local drainage authority. The contractor is expected to apply for relevant permits prior to commencing the work.
- Existing Services:**
- Any existing services which may be affected by the proposed works should be located by means of a bore log to show below with the utility 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.
- All Contractors Responsibilities:**
- It is the contractor's responsibility to provide the following as constructed drawings to the developer upon the completion of the works covered by the contract -
- Position/coordinates of all acceptable manholes.
 - Level and cover levels of all acceptable manholes.
 - New gully positions and connections.
 - Position and depth of service ducts for water, gas, electric, BT, cable and street lighting, stating size and number of ducts.



Rev A - Sections and S278 hatches amended following client comment, JT 24 07 15

PRELIMINARY

Title: **Barratt Homes & Taylor Wimpey Luke's Lane, Monkton Phase 2 S278 Sections Sh1**

Scale: 1:500/As Noted @A0 Date: July 2015

Drawn by: JT Checked by: james.thompson@queensberrydesign.co.uk

Project No: QD1081-16-11 Revision: A Checked by: -

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