

Road Pavement Construction

Design in accordance with HCC Companion Document to Manual for Streets (Table B, sub-base and capping)

- Surface Course = 45 mm thick HRA 55/14F Surf 40/60 to BS EN 13108-4, Min PSV of 65.
- Binder Course = 65 mm thick AC20 Dense bin 100/50 to BS EN 13108-1.
- Base Course = 160 mm thick AC32 Dense base 100/150 to BS EN 13108-1.
- Sub-Base = 150 mm thick Type 1 sub base to SHW cl 803.
- Capping = 350mm thick 6F2 to SHW

Pavement Construction Notes:

1. Pavement design in accordance with HD26/06 (blacktop layers) and HCC Companion Document to Manual for Streets (Table B, sub-base and capping).
2. Pavement design is based on Design CBR of 2.5% as recommended in the Supplementary Geotechnical Investigation Report by JNP Group, dated August 2018. In-situ CBR testing to be undertaken to confirm CBR values. If in-situ CBR is lower than Design CBR, sub-base thickness to be increased as appropriate in accordance with requirements of HCC Companion Document to Manual for Streets (page 73, Table B). Sub-base thickness must not be reduced if in-situ CBR values are greater than Design CBR.
3. If CBRs are less than 2%, HCC advice on the foundation layer design must be obtained and followed.
4. If existing soils are frost susceptible, a minimum carriageway construction of 450mm is required, the sub-base thickness may need to be increased.
5. Sub-base shall be recycled granular material in accordance with HCC Clauses 891AR, 892AR or 893AR, or hydraulically bound material to HCC Clause 894AR. Virgin crushed rock sub-base may only be used where it can be demonstrated that recycled or secondary materials are not available locally; where used, it shall be Type 1 granular material to SHW Cl. 803.
6. Capping layer to be made of selected granular fill Class 6F1/6F2/6F4/6F5.
7. All details and materials specifications to be in accordance with HCC Standards.
8. Carriageway camber to be 1:40. Carriageway single crossfall to be 1:40. Refer to drawing no. C85850-D100 S38 Adoptable Road Layout for road contours & C85850-D102 - D103 for Road Longitudinal Sections.

All Carriageway Construction

All substrata structures and unconsolidated material within the formation of new highway and proposed hardstanding areas are to be removed.

Any soft, damaged or weak spots are to be brought to the attention of the engineer. These will be excavated and replaced with 6F5/2 granular material and compacted in layers in accordance with Specification for Highway Works and HCC requirements. Subgrade to be proof rolled.

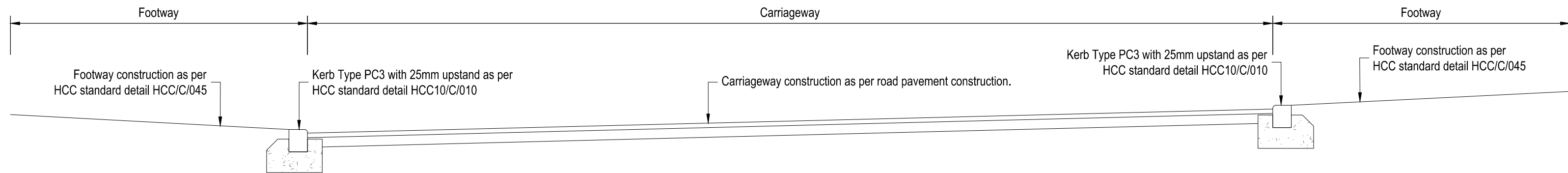
Sub-formation preparation to be in accordance with specification for highway works CL616 and treated with granular weedkiller.

IN SITU CBR VALUES TO BE CONFIRMED ON SITE.

Reference to HCC Standard Detail Drawings and other construction requirements:

NOTE: HCC drawing revisions not listed. Contractor to ensure that the latest/current drawing revisions are being used for construction.

1. All kerbs to be in accordance with HCC standard detail drawing HCC10/C/010 Rev ~, Type PC1, PC3 and PC4.
2. Footway construction to be in accordance with HCC standard detail drawing HCC10/C/045 Rev A, Type 1A.
3. Footway edging to be in accordance with HCC standard detail drawing HCC10/C/045 Rev A.
4. Vehicle crossing to be in accordance with HCC standard detail drawing HCC10/M/035 Rev ~.
5. Dropped pedestrian crossing to be in accordance with HCC standard detail drawing HCC10/C/060 Rev ~. Tactile paving shall be 400 x 400 x 50mm thick blister tactile flags module Type 2. For dropped pedestrian crossings at junctions, refer to drawing no. C85850-D100 for plan. To be 1.2m wide and 2 rows of full tactile flags.
6. Block Paved Raised Table to be in accordance with HCC standard detail drawing HCC10/C/105 Rev A. Refer to block paved raised table supplementary section B - B for further details
7. All highway drain manholes are to be in accordance with HCC standard detail drawings
Exceeding 1.5m but not 3.0m - HCC10/D/045
Exceeding 1.0m but not 1.5m - HCC/D/055
8. Road gullies to be in accordance with HCC standard detail drawing HCC10/D/015 Rev ~ and HCC10/D/020 Rev ~, Type 1 or 2.
9. Road gully gratings shall be Type S or T gratings in accordance with DMRB HA 102/17.
10. All pipe bedding and selected backfill material to be in accordance with the Highways Agency Specification for Highway Works and HCC requirements. Pipe bedding details to be in accordance with SHW Series F, drawings F1 and F2. Pipe bedding shall be Class Z where cover to pipe is less than 1.2m, and Class S where cover is equal or more than 1.2m.
11. Pipe material to be:
Dia < 225mm - Vitrified Clay to BS 65
Dia >= 225mm - Concrete to BS 5911-1:2002 and BS EN 1916:2002
Where pipe dia. = 150mm, pipe crushing strength shall be 22kN/m.
Where pipe dia. >= 225mm, the pipe standard shall be Class 120.
12. The joint detail for pipe surround on Type Z drains is for flexible joints only. For pipes with a nominal diameter below 450mm, the thickness of compressible joint filler board shall be 18mm. For pipes with a nominal diameter of 450 or greater, but not exceeding 1200mm, the thickness of joint board filler shall be 36mm. For pipes exceeding 1200mm nominal diameter, the thickness of joint filler board shall be 54mm.



Block Paved Raised Table Section B - B

1:25

Drainage & Road Layout Standard Drawing Notes

1. The contractor is to check and verify all buildings, site dimensions and levels, including sewer invert levels, before works start on site.
2. The contractor is to comply in all aspects with the current building legislation, British Standards, building regulations etc.
3. The contractor is to check the level of existing sewers which are to be used as an out-fall prior to commencement of any onsite drainage works. Any discrepancies are to be reported to the Engineer.
4. This drawing is to be read in conjunction with and checked against all other drawings, Engineering Details, specifications and any structural, geotechnical or other specialist document provided.
5. Any anomaly or contradiction between any of the above or difference between actual and drawn details is to be reported to Bellway Homes (Wessex)
6. Drainage to be adopted under Section 104 of the Water Industries Act 1991, shall be constructed and tested in accordance with Sewers for Adoption 6th Edition published by WRC plc and the combined addendum to SFA.
7. Roads, footpaths and parking areas which form part of the highway to be adopted under Section 278 or 38 of the Highways Act 1980 shall comply with the Hampshire County Council's Highway Specification and Standard Details.
8. All substrata structures and unconsolidated material within the road construction width to be removed
9. Formation preparation to be in accordance with Highways Agency Specification for Highway Works (SHW) cl. 616. No prepared formation to be continuously exposed to rain causing degradation below design CBR or to be left uncovered overnight.
10. Any soft, damaged or weak spots including peat contaminated material are to be excavated and replaced with SHW Type 1 in accordance with SHW cl.803 laid and compacted to cl.802, Table 8/4
11. Where ground conditions are deemed to be frost susceptible, refer to Ground Investigation report, carriageway thickness shall be 450mm minimum thickness. All material within 450mm of road construction to be non-frost susceptible.
12. Positions of existing services/statutory undertaker's apparatus adjacent to or crossing proposed sewers are to be checked by the contractor prior to starting work.

Existing Utilities

The contractor shall refer to the existing and proposed services information, provided by Bellway Homes (Wessex).

It is the Contractor's responsibility to liaise with all relevant services companies to ensure that all existing services are accurately located and adequately protected during construction.

It is the Contractor's responsibility to liaise with the Developer and all relevant services companies to ensure that all new and diverted services are accurately located and adequately protected during construction.

All works to existing services to be undertaken as required by the Developer. Refer to Developer design.

All bured concrete Design Class DS -2 and ACEC site classification of AC-1s. For existing ground conditions refer to Phase II Ground Investigation Report by Soils Limited, document ref. 16524/GIR, dated October 2017 and Supplementary Geotechnical Investigation Report by JNP Group, dated August 2018.

- All adoptable drainage and highway works to be installed in accordance with; S104 & S185 Sewers - Sewers for Adoption 6th edition, including all applicable local Southern Water addendums
- S278 and S38 Highways - Hampshire County Council Specification and Standard Details.

Notes:-

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Health and Safety Note:

The details on this drawing have been prepared on the assumption that a competent contractor will be carrying out the works. If the contractor(s) considers that there is insufficient Health and Safety information on this drawing, this should immediately be brought to the attention of the designer.

A	13.09.18	Vehicle crossover detail added, Road construction revised. Status revised to construction issue.	CT	KT	
Rev.	Date	Amendment	By	Chk.	

Status

Construction

Bellway

**john newton & partners**
jnp group
Consulting Engineers
www.jnpgroup.co.uk
Chesham • Brighouse • Hartlepool • Leamington Spa • Sheffield
Tel: 01926 889955 E-mail: leamingtonspa@jnpgroup.co.uk

Client	Bellway Homes		
Job	Bartons Road Havant, Hampshire		
Title	S38 Adoptable Road & Drainage Construction Details		
Scale	As shown	@ A1	Date July 2018
Drawn by	CT	Checked by	KT
BMTRADA MEMBER UKAS CONSTRUCTION 612 HAS Accredited Contractor Constructionline Part of Capital plc Constructionline Supplier No. 000024			

Drawing No.	Rev.
C85850-D106	A

QA Ref: Q0019 Rev D