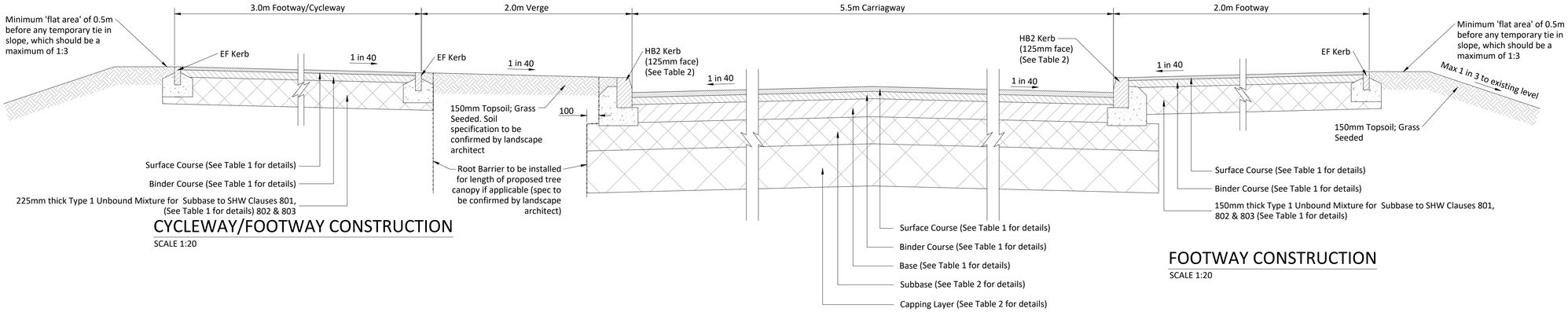
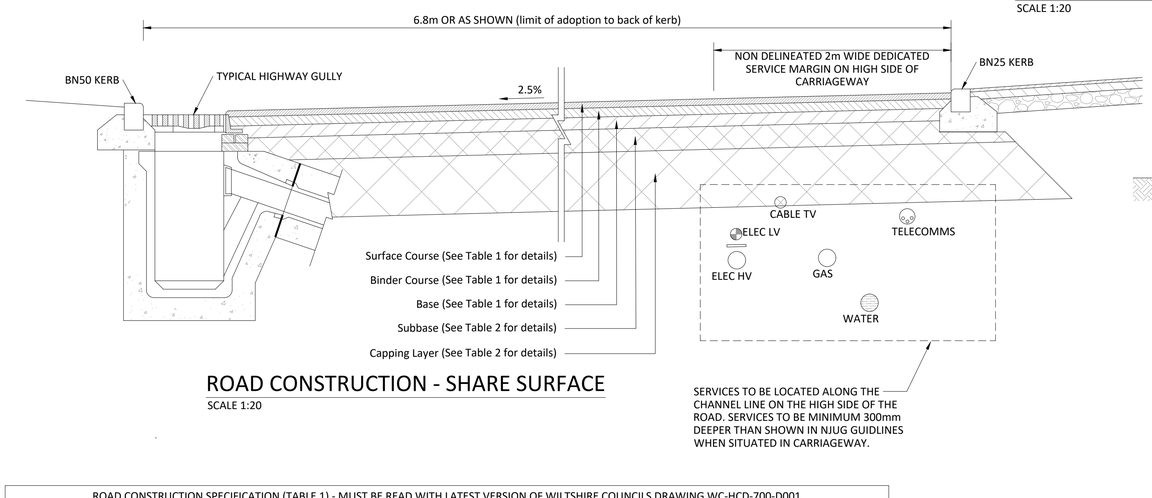


CYCLEWAY/FOOTWAY CONSTRUCTION
SCALE 1:20

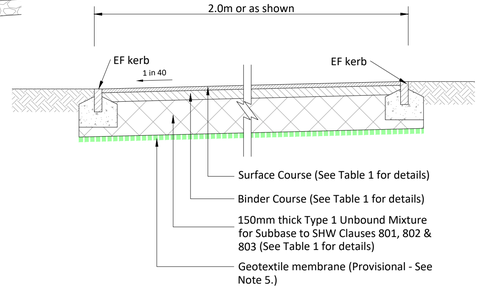
FOOTWAY CONSTRUCTION
SCALE 1:20

ROAD CONSTRUCTION - MAIN ROAD
SCALE 1:20



ROAD CONSTRUCTION - SHARE SURFACE
SCALE 1:20

SERVICES TO BE LOCATED ALONG THE CHANNEL LINE ON THE HIGH SIDE OF THE ROAD. SERVICES TO BE MINIMUM 300mm DEEPER THAN SHOWN IN NJUG GUIDLINES WHEN SITUATED IN CARRIAGEWAY.



FOOTWAY CONSTRUCTION DETAIL
SCALE 1:20

FOOTWAY NOTES
1. Do not scale from this drawing. All Dimensions in mm's
2. Refer to drawings WC-HCD-1100-D001- 0 for Approved Kerb Type Selection.
3. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
4. The engineer may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
5. The Engineer may increase the Sub-base to a depth of 225mm or include a geotextile membrane (Terram 1000 or similar approved) or geo-grid on formation where dictated by existing ground conditions.
6. None of the details on this drawing are suitable where 'no-dig' construction is required.
7. Where a footpath is proposed between walls, private land or other features then positive drainage will be necessary in order to prevent run off of highway surface water.
8. For AC 6 Dense Surf & AC 20 Dense bin, 160/220 may be used if hand laying in winter.
9. For cycleway construction machine laying is the default option for the surface course. Permission to hand lay must be sought from Wiltshire Council. 10. Tactile paving to be specified and installed in accordance with DETR guidance on the Installation of Tactile Paving 1998. Also refer to WC-HCD-1100-D003-0

General Notes:
1. All Works are to be constructed in accordance with Wiltshire Council and the Highways Agency's Specification for Highway Works (SHW) March 2025 as amended published by The Stationary Office
2. All levels relate to the survey which is to Ordnance datum. Dimensions not to be scaled.
3. Use of this drawing does not absolve the client from their responsibilities under the Health and Safety: The Construction Design and Management Regulations 2015. The Principal Designer is required to contact Tumu Consulting prior to permitting this drawing to be used in connection with any construction works. For site specific CDM 2015 Designers Residual Risks, see drawing series 1140 and should be read in conjunction with Designer Risk Register.
4. The contractor is to check and verify all buildings and site dimensions and levels, including existing sewer invert levels, before works start on site.
5. Positions of existing services/statutory undertakers apparatus adjacent to or crossing proposed excavations are to be checked by the contractor prior to starting work.
6. 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. Any anomalies or contradictions between any of the above is to be reported to Tumu Consulting before construction begins.
7. The planning, design and construction of sewers shall be in accordance with Appendix C of the Sewer Sector Guidance (SSG), A Design and Construction Guide for Developers, The Civil Engineering Specification for the Water Industry 8th edition and XXXXXXXXXX amendments to CESWI dated may 2023.
8. For all private surfacing refer to Landscape consultants drawings and specifications. Construction of private hardstanding to be in accordance with NHBC Part 10 guidance.
9. Refer to Section 38 & 104 drawings for a full set of construction specification notes.

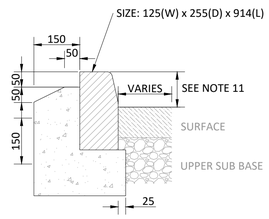
ROAD CONSTRUCTION SPECIFICATION (TABLE 1) - MUST BE READ WITH LATEST VERSION OF WILTSHIRE COUNCILS DRAWING WC-HCD-700-D001

	ROAD CONSTRUCTION MAIN ROAD	ROAD CONSTRUCTION SHARE SURFACE	CYCLEWAY CONSTRUCTION MUST BE READ WITH LATEST VERSION OF WILTSHIRE COUNCILS DRAWING WC-HCD-1100-D004	FOOTWAY CONSTRUCTION MUST BE READ WITH LATEST VERSION OF WILTSHIRE COUNCILS DRAWING WC-HCD-1100-D004	VEHICLE CROSSOVER CONSTRUCTION MUST BE READ WITH LATEST VERSION OF WILTSHIRE COUNCILS DRAWING WC-HCD-1100-D004	BLISTER TACTILE PAVING
SURFACE COURSE	40mm AC 10 CLOSE SURF 100/150[1] (OR 40/60[2])	30mm AC 10 CLOSE SURF 100/150[1] (OR 40/60[2])	20mm AC 6 DENSE SURF 100/150	20mm AC 6 DENSE SURF 100/150	20mm AC 6 DENSE SURF 100/150	400 x 400 x 50mm TACTILE PAVING SLABS
SRUFACE COURSE REGULATIONS	AC 10 CLOSE SURF 100/150[1] (OR 40/60[2])	AC 10 CLOSE SURF 100/150[1] (OR 40/60[2])	N/A	N/A	N/A	N/A
LAYING COURSE	N/A	N/A	N/A	N/A	N/A	50mm COMPACTED SAND/CEMENT GRITMIX
BINDER COURSE	60mm AC 20 DENSE BIN 40/60 DES	60mm AC 20 DENSE BIN 40/60 DES	60mm AC 20 DENSE BIN 40/60	60mm AC 20 DENSE BIN 40/60	60mm AC 20 DENSE BIN 40/60	N/A
BINDER COURSE REGUALTION	AC 20 DENSE BIN 40/60 DES	AC 20 DENSE BIN 40/60 DES	N/A	N/A	N/A	N/A
BASE	125mm AC 32 DENSE BASE 40/60	100mm AC 32 DENSE BASE 40/60	N/A	N/A		N/A
BASE REGULATIONS	AC 32 DENSE BASE 40/60	AC 32 DENSE BASE 40/60	N/A	N/A	N/A	N/A
SUB BASE	TYPE TO Table 2	TYPE TO Table 2	225mm TYPE 1	150mm TYPE 1	225mm TYPE 1	150mm TYPE 1
GEOTEXTILE	GEOTEXTILE	GEOTEXTILE	GEOTEXTILE	GEOTEXTILE	GEOTEXTILE	GEOTEXTILE

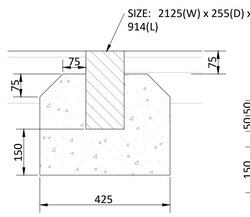
TABLE 2

CBR OF SUBGRADE	CAPPING LAYER THICKNESS (mm)		SUB-BASE THICKNESS	FOUNDATION TYPE
> 15%			200	1
	150	AND	150	2
10% - 15%	250* (NOTE 23)	OR	230* (NOTE 23)	1
	170	AND	180	2
5% - 10%	390* (NOTE 23)	OR	320* (NOTE 23)	1
	210	AND	240	2
2.5% - 5%	550* (NOTE 23)	OR	450* (NOTE 23)	1
	250	AND	350	2
< 2.5%	SEE NOTE 24			

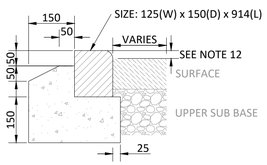
ROAD CONSTRUCTION NOTES
1. 160/220 pen binder may be considered for use during winter months but prior approval for its use MUST be obtained from Wiltshire Council.
2. 40/60 Pen binder shall NOT be used for hand laying.
3. Minimum PSV value stated, Table 3 HD36/06 and appropriate site categorisation / investigatorty level to be checked by the developer to ensure the site layout does not demand higher min PSV value.
4. Maximum AAV value stated, Table 3.2 HD36/06 to be checked by developer to traffic flows do not demand lower maximum AAV values.
5. Permitted option ONLY where surface texture is NOT a consideration.
6. Capping layers to MCHW Clause 613 Types 6F1, 6F2, 6F4 and 6F5
7. Sub-Base layers to MCHW Clauses 803, 804, 805 and 806.
8. * Not permitted where pavements are designed for more than 20msa.
9. Where a CBR value is less than 2.5% an alternative subgrade design involving geotextiles or soil stabilisation must be considered by the developer.
10. Refer to drawings WC-HCD-1100-D001-for Approved Kerb Type Selection.
11. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
12. The Engineer may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
13. The Engineer may increase the Sub-base depth or include a geotextile or geogrid on formation where site ground conditions are considered to be sub-standard.
14. Not suitable where 'no-dig' construction is required.
15. Asphalt Concrete to be in accordance with BS EN 13108-01 and BS 594987.
16. Hot Rolled Asphalt to be in accordance with BS EN 13108-04 and BS 594987.
17. Where block paviors are the proposed surface course they must to be in accordance with BS 7533-2 2001Category II Trafficking. Prior approval required.
18. Total carriageway construction depth must be greater than 450mm to negate susceptibility to frost penetration, irrespective of CBR value.
19. More major roads shall have a bespoke pavement design in accordance with DMRB standards.
20. Carriageway widening to widths of less than 1m; Base and sub-base to be replaced with ST4 concrete with the same overall construction depth as the standard construction.
21. PSV requirements shall be declared in accordance with HD 36/06 table 3.1.
22. CBR values to be obtained from site investigation report and laboratory testing. The WC / Atkins Engineer may request additional tests.
23.*Not permitted where pavements are designed for more than 20mpa.
24. Where cbr value is less than 2.5% an alternative sub grade design involving geotextiles or soil stabalisation must be consider by the developer.
25. The class 2 general fill shall be compacted in line with the specification for highway works table 6/4 method 2, as stated in table 6/1 acceptable earthworks materials classification and compaction requirements.
26. Design cbr to be taken as 3%. contractor to confirm cbr value prior to construction.



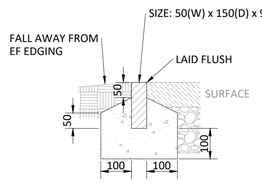
FULL HEIGHT KERB - TYPE HB2
SCALE 1:10



TYPE CS1 KERB
SCALE 1:10



DROP KERB - TYPE BN
SCALE 1:10



EDGING TYPE EF (FLAT TOP)
SCALE 1:10

KERB NOTES
1. Do not scale from this drawing. All Dimensions in mm's
2. Kerbs to be butt jointed. Where kerb alignments incur 'minor open joint tapers' between formed surfaces mortar jointing shall be used as directed by engineer.
3. All full length Precast kerbs are to be mechanically handled.
4. All precast concrete Kerbs & Edgings shall be to BS EN 1340 & laid to BS 7533-6.
5. All setts of natural stone shall be to BS EN 1342 & laid to BS 7533-7.
6. All Kerbs & Edgings bed & backing to be Concrete Class ST1 (C6/8), well compacted. Unless otherwise stated this shall be a minimum bed thickness of 150mm.
7. The minimum length of any cut kerb shall be 450mm (Half kerb).
8. The correct radius kerbs shall be used for all radii of 12m or less. For radii between 12m and 20m 600mm long straight units shall be used. Radius kerbs shall be used to form corners of laybys and tapers.
9. Suitable transition kerbs shall be used for all drop kerb and upstand variation locations.
10. Suitable quadrant kerbs shall be used to form corners of square areas and refuge islands.
11. Kerb up-stand to be denoted on relevant engineering drawing
12. Drop kerb upstand shall be 0-6mm for pedestrian crossings, 25mm for vehicular crossings.
13. Mortar shall comply with S.H.W Clause 24014 designation (i)
14. Bond coat to Clause 920 shall be applied to c/way surface in accordance with BS434: Pt 2 prior to laying extruded asphalt kerb
15. The work shown on this drawing could affect statutory undertakers apparatus and the contractor is required to verify the location and depth prior to the commencement of work and take all precautions necessary when working in the vicinity of such apparatus. Utility Information is produced from a digital source and no guarantee can be given regarding its accuracy. It is the recipients responsibility to check the accuracy of measurements given. Should discrepancy occur please contact the issuing authority to seek clarification.
16. The use of this drawing does not absolve the client of their responsibilities under Health & Safety: The Construction (Design & Management) Regulations 2015

SEE WILTSHIRE COUNCIL'S STANDARD DETAIL DRAWING WC-HCD-1100-D004

REV.	DESCRIPTION	Date	BY	CHK
A	FIRST ISSUE	13.07.26	TH	BJS

DESIGN BY: tumu

CLIENT: Bellway

DRAWING STATUS: PLANNING APPLICATION

SCALE @ A1: AS SHOWN

PROJECT: HAWKE RIDGE BUSINESS PARK

TITLE: HIGHWAY CONSTRUCTION DETAILS SHEET 1

Project Ref: Originator: Stage: Phase: Number: 20001-TUM-PL-XXX-0290

REV: A