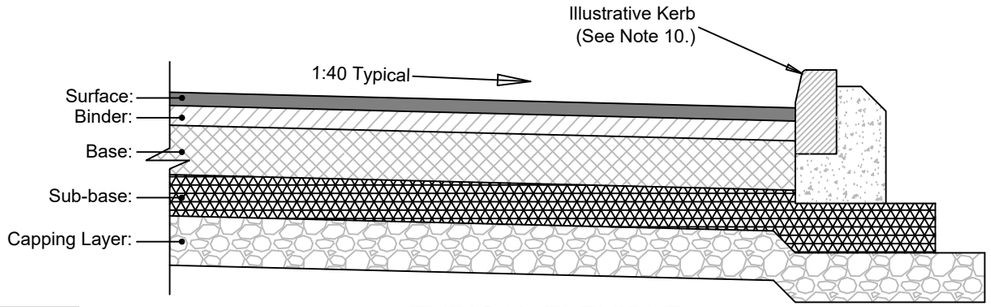
ROAD CATEGORISATION

	AR1	AR2	AR3	AR4	AR5	AR6	AR7
	Estate Distributor Road / Industrial Estate Road	Estate Link Roads		Estate Loop Roads & Cul-De -Sacs			
SURFACE COURSE							
AC 10 close surf 100/150[1] (or 40/60[2]) des **30mm** thick				MCHW Clause 912 Min PSV 55[3] Max AAV 16[4]			
AC 10 close surf 100/150[1] (or 40/60[2]) des **40mm** thick		MCHW Clause 912 Min PSV 60[3] Max AAV 14[4]					
AC 14 close surf 100/150 (or 40/60[2]) des **40mm** thick		MCHW Clause 912 Min PSV 60[3] Max AAV 14[4]					
HRA 35/14F Surf 40/60 des **45mm**[3] thick with coated chippings 14/20mm	MCHW Clause 911 Min PSV 50 Max AAV [4] Clause 915 Min PSV 65[3] Max AAV 12[4]						
HRA 55/14 (or 10) F Surf 40/60 des **45mm** thick[5]	MCHW Clause 911 Min PSV 65[3] Max AAV 12[4]						
BINDER							
20mm Dense AC Bin 40/60 PEN **60mm** thick	MCHW Clause 929 - BSI PD 6691						
BASE							
32mm Dense AC Base 40/60 PEN **150mm** thick	MCHW Clause 929 - BSI PD 6691						
32mm Dense AC Base 40/60 PEN **125mm** thick		MCHW Clause 929 - BSI PD 6691					
32mm Dense AC Base 40/60 PEN **100mm** thick				MCHW Clause 929 - BSI PD 6691			

SUB BASE & CAPPING LAYER

Subgrade CBR	Capping Layer Thickness (mm)		Sub Base Thickness (mm)	Foundation Type
CBR> 15%			200	1
	150	and	150	2
CBR> 10% - 15%	250*(note 8.)	or	230*(note 8.)	1
	170	and	180	2
CBR> 5% - 10%	390* (note 8.)	or	320*(note 8.)	1
	210	and	240	2
CBR> 2.5% - 5%	550*(note 8.)	or	450*(note 8.)	1
	250	and	350	2
CBR <2.5%	SEE NOTE 9.			



TYPICAL FLEXIBLE CARRIAGEWAY CONSTRUCTION

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NOTES

1. BSI PD6691 Guidance on the use of BS EN 13108, Bituminous mixtures - Material specifications
2. 160/220 pen binder may be considered for use during winter months but prior approval for its use MUST be obtained from Wiltshire Council.
3. 40/60 Pen binder shall NOT be used for hand laying.
4. 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.
5. Maximum AAV value stated, Table 3.2 HD36/06 to be checked by developer to traffic flows do not demand lower maximum AAV values.
6. Permitted option ONLY where surface texture is NOT a consideration
7. Capping layers to MCHW Clause 613 Types 6F1, 6F2, 6F4 and 6F5
8. Sub-Base layers to MCHW Clauses 803, 804, 805 and 806.
9. * Not permitted where pavements are designed for more than 20msa.
10. Where a CBR value is less than 2.5% an alternative subgrade design involving geotextiles or soil stabilisation must be considered by the developer.
11. Refer to drawings WC-HCD-1100-D001-for Approved Kerb Type Selection.
12. Prior to the commencement of laying the formation shall be treated with an approved residual weedkiller.
13. The Engineer may request inclusion of a non-woven separation membrane to mitigate weed/root intrusion.
14. 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.
15. Not suitable where 'no-dig' construction is required.
16. Asphalt Concrete to be in accordance with BS EN 13108-01 and BS 594987.
17. Hot Rolled Asphalt to be in accordance with BS EN 13108-04 and BS 594987.
18. Where block paviors are the proposed surface course they must to be in accordance with BS 7533-2 2001Category II Trafficking. Prior approval required.
19. Total carriageway construction depth must be greater than 450mm to negate susceptibility to frost penetration, irrespective of CBR value.
20. More major roads shall have a bespoke pavement design in accordance with DMRB standards.
21. 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.
22. PSV requirements shall be declared in accordance with HD 36/06 table 3.1.
23. CBR values to be obtained from site investigation report and laboratory testing. The WC / Atkins Engineer may request additional tests.
24. 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.
25. The use of this drawing does not absolve the client of their responsibilities under Health & Safety: The Construction (Design & Management) Regulations 2015.

Rev	Revision details	Chkd	Appd	Date
A	Reference corrections	DMT	GTR	11/03/19

Drawn: MJR
Checked: KAR
Approved: KAR
Date: 03/07/17

DRAWING STATUS
ISSUE

File Ref: L:\Traffic Engineering Team\Standard Drawings\Wiltshire Council - Final Approved Standard Drawings

Client: Wiltshire Council
Wiltshire Council
Highways & Transport
County Hall,
Bythesea Road
Trowbridge
Wiltshire
BA14 8JN

Consultant: ATKINS
Atkins Highways & Transportation
3rd Floor
County Gate
County Way
Trowbridge
Wiltshire
BA14 7FJ

Project Name:
WILTSHIRE COUNCIL - HIGHWAYS & TRANSPORT
STANDARD HIGHWAY CONSTRUCTION DETAILS

APPROVED
CONTRACTOR TO ENSURE LATEST DETAILS ARE USED

Drawing Title:
SERIES 700 - PAVEMENTS
FLEXIBLE CONSTRUCTION (SPEED LIMIT- 40MPH OR LESS)

Original Sheet Size : A3
Scale : AS SHOWN
Dimensions : mm
Drawing No. WC-HCD-700-D001
Rev: A