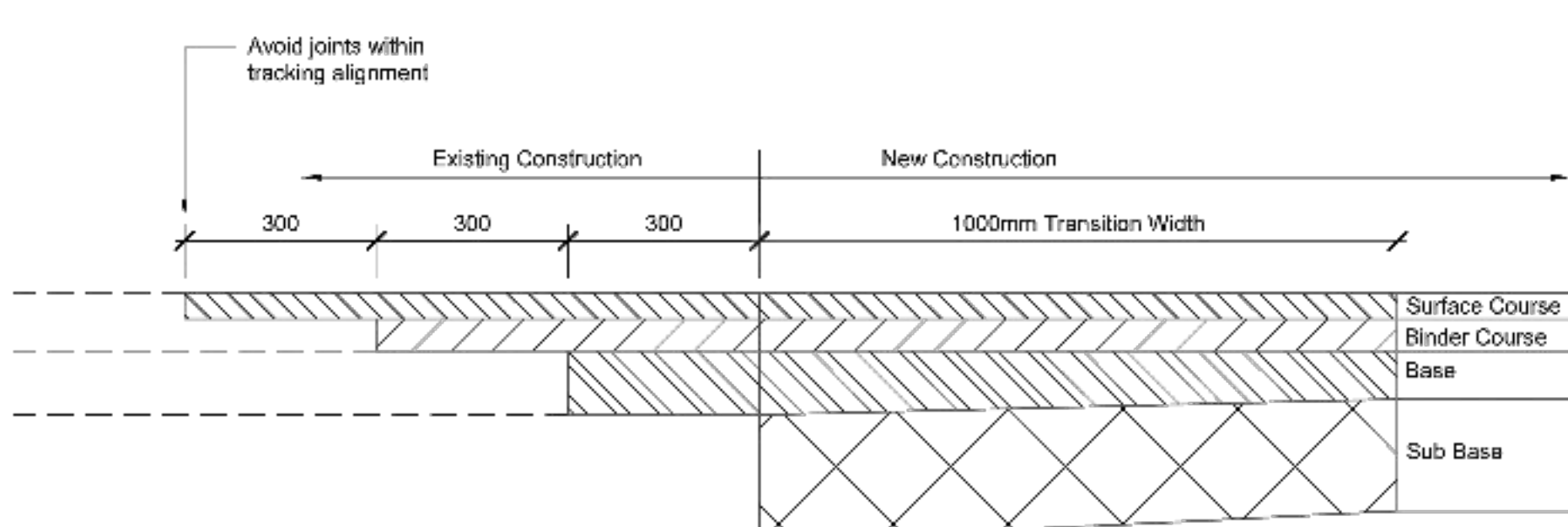
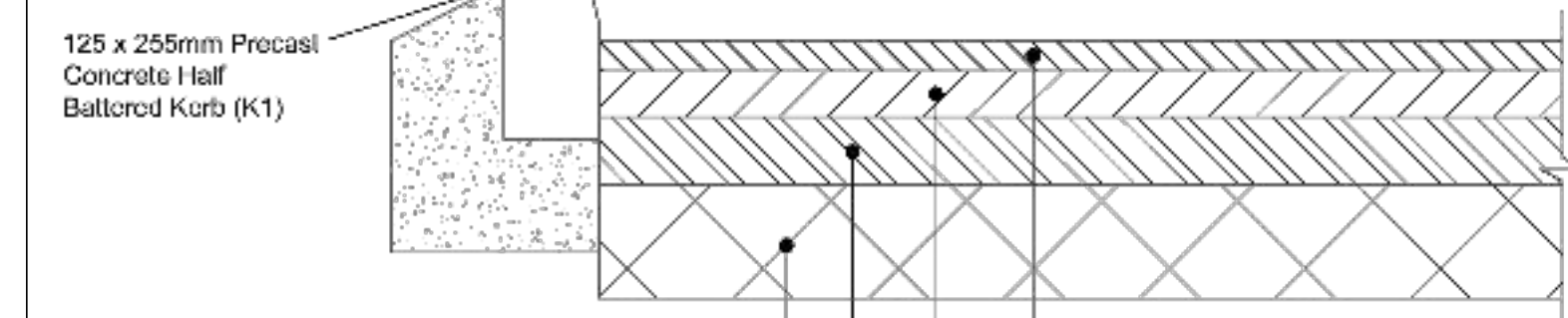




Carriageway Tie in Detail
Scale: 1:10



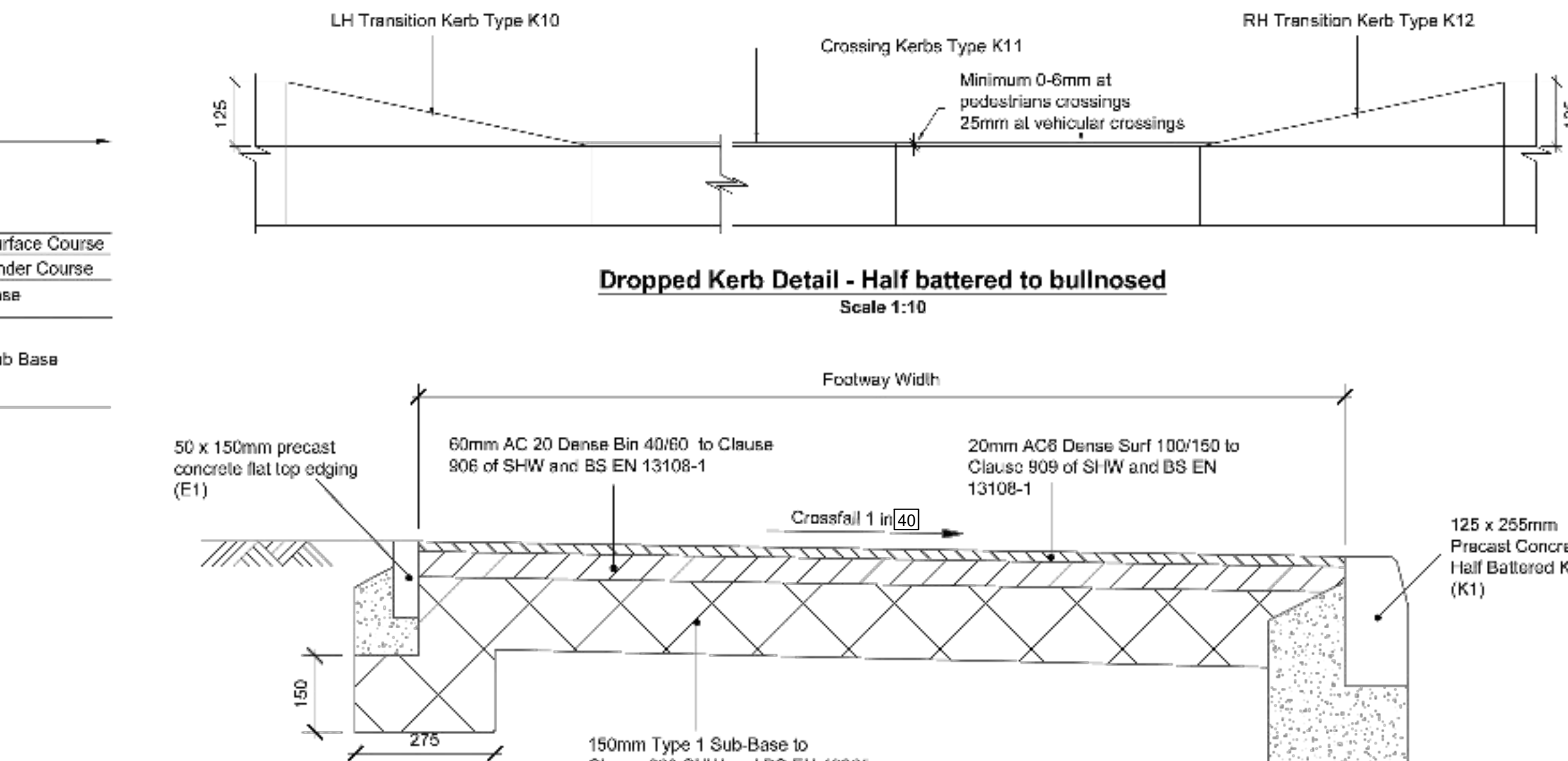
150mm Type 1 Sub-Base to Clause 803 SHW and BS EN 13285 (dependent upon CBR value of the sub-grade and whether a capping layer has been provided).

60mm AC 32 Dense Base 40/60 to Clause 906 SHW and BS EN 13108-1

60mm AC 20 Dense Bin 40/60 to Clause 906 SHW and BS EN 13108-1

800 Table below 2 (surface course material)

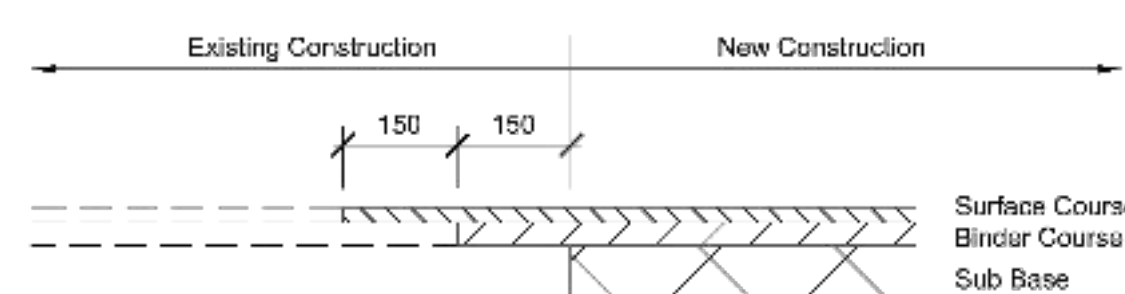
Typical Street Carriageway Construction
Scale: 1:10



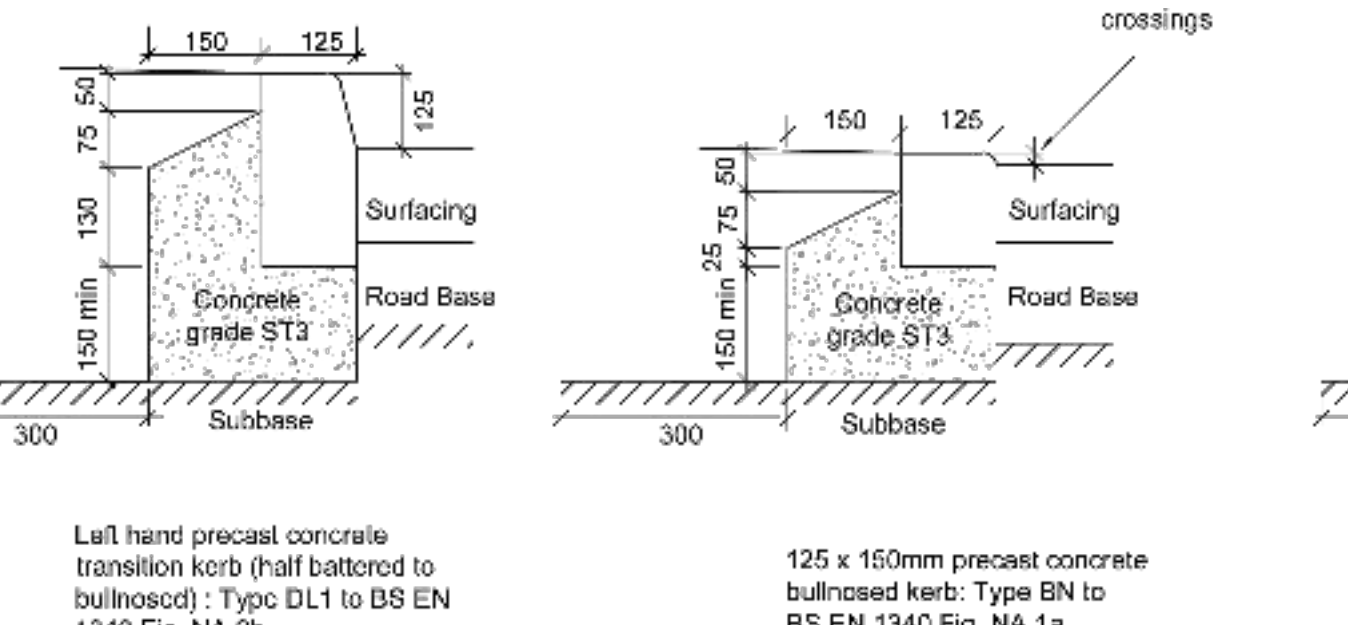
Dropped Kerb Detail - Half battered to bullnosed
Scale: 1:10

CBR	Minimum Capping Thickness	Minimum Sub-Base Thickness
Less than <2.5%	600mm	150mm
2.5 - 5.0%	-	350mm
5.0 - 15.0%	-	150mm
15.0 - 30.0%	-	225mm
Greater than >30.0%	-	150mm

Minimum Sub-grade and Capping Thickness - Table 1

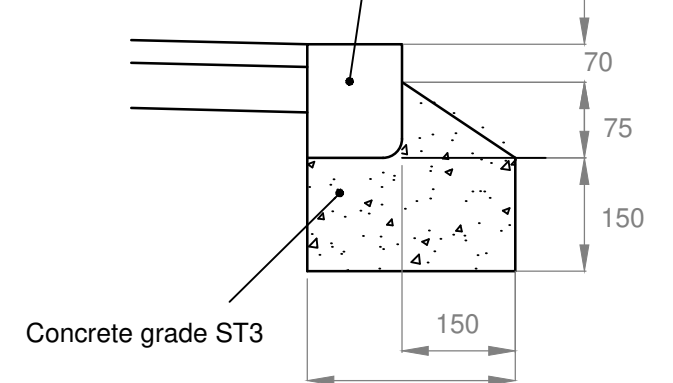


Footway Tie in Detail
Scale: 1:10

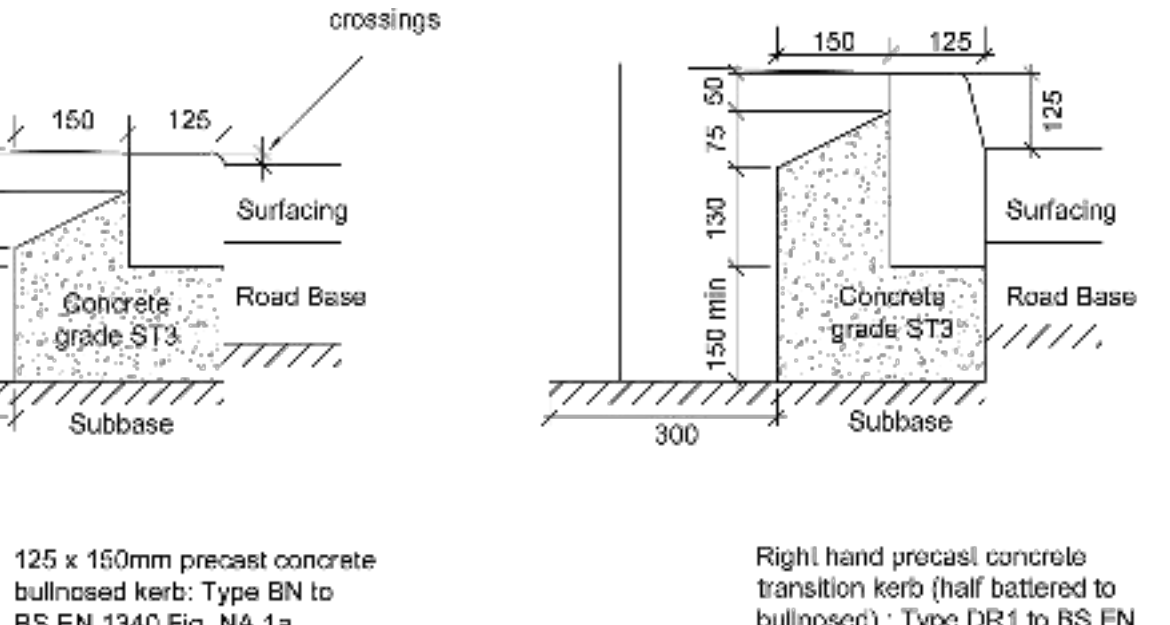


Kerb Type K10
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

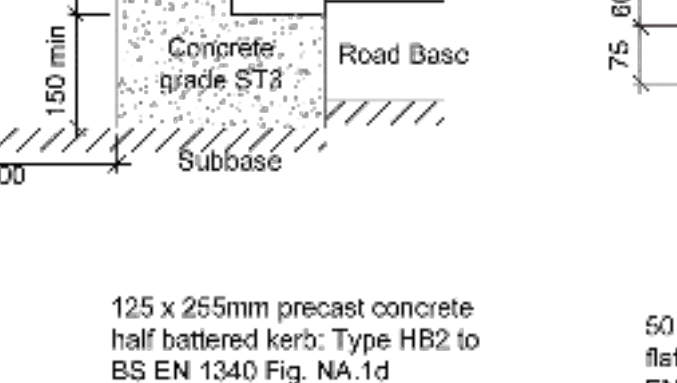


Kerb Type K11F
Scale: 1:10

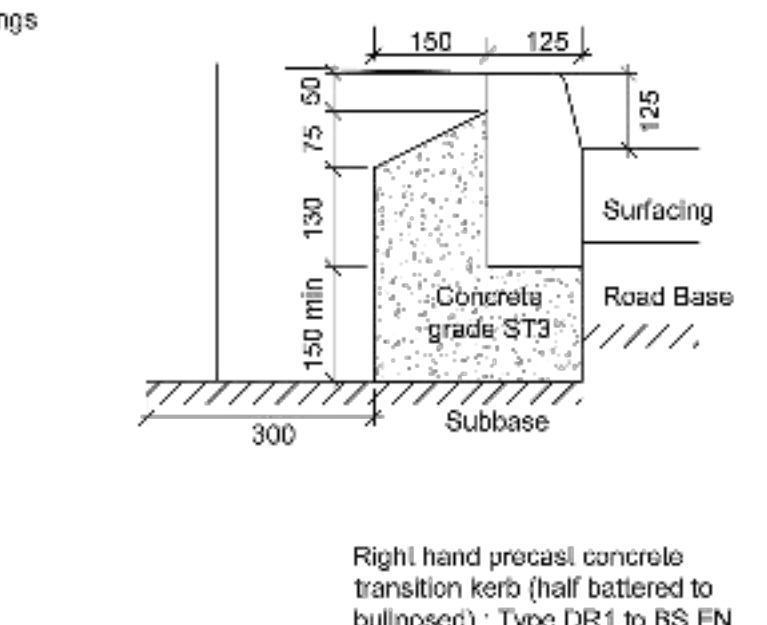


Kerb Type K11
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

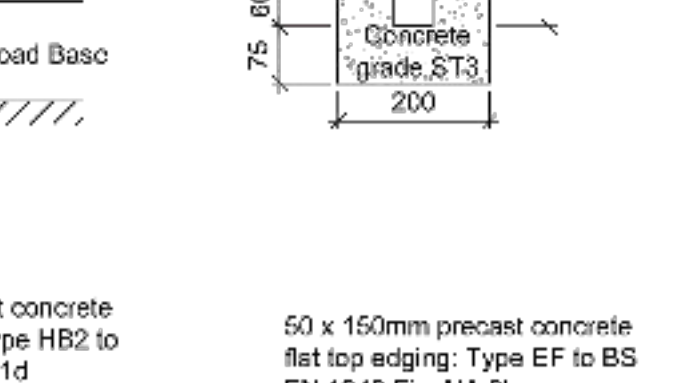


Kerb Type K12
Scale: 1:10

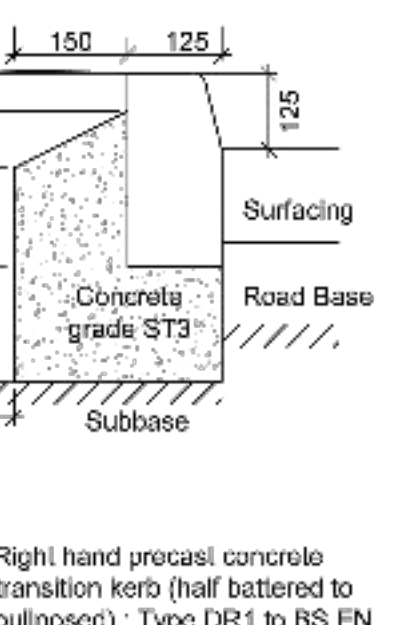


Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

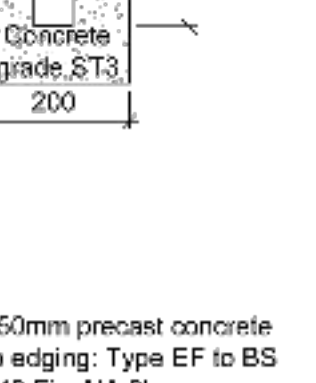


Kerb Type K12
Scale: 1:10



Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



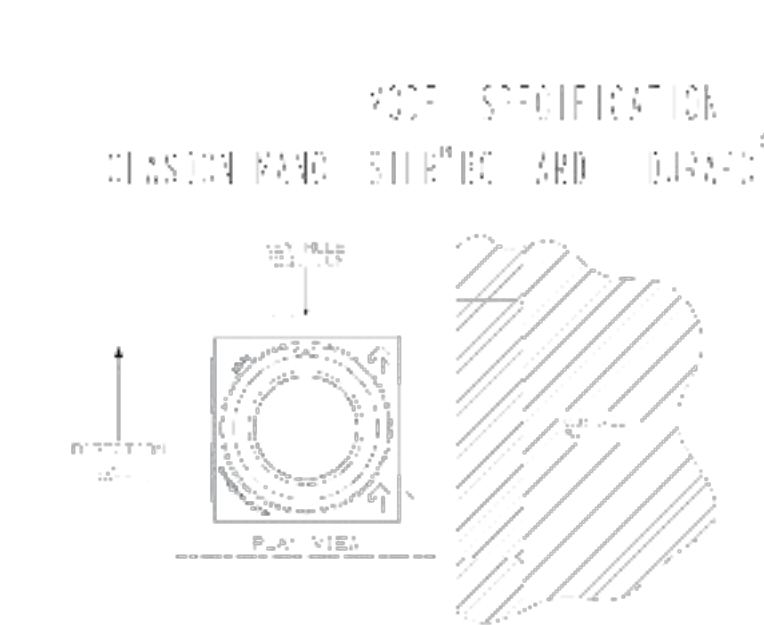
Kerb Type K12
Scale: 1:10

Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



Kerb Type K12
Scale: 1:10



Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



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Scale: 1:10



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Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



Kerb Type K12
Scale: 1:10



Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



Kerb Type K12
Scale: 1:10

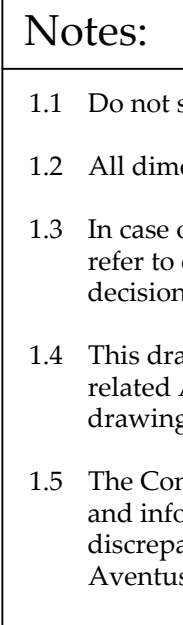


Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

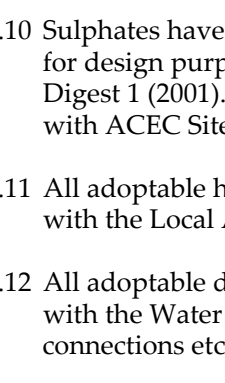


Kerb Type K12
Scale: 1:10

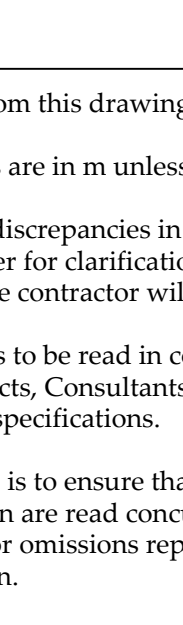


Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

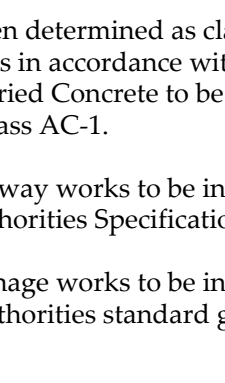


Kerb Type K12
Scale: 1:10

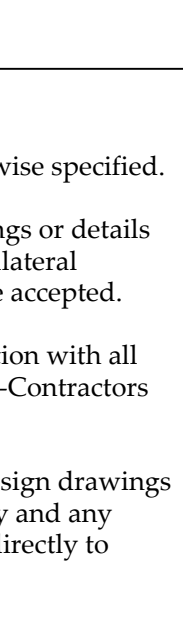


Kerb Type K12
Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less

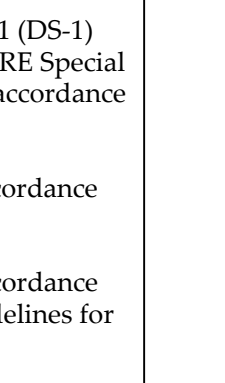


Kerb Type K12
Scale: 1:10



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Scale: 1:10

125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



Kerb Type K12
Scale: 1:10



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125mm x 150mm precast concrete bullnosed kerb: Type BN to BS EN 1340 Fig. NA.1a. Purpose made radius kerbs to be used where radius is 12m or less



Kerb Type K12
Scale: 1:10

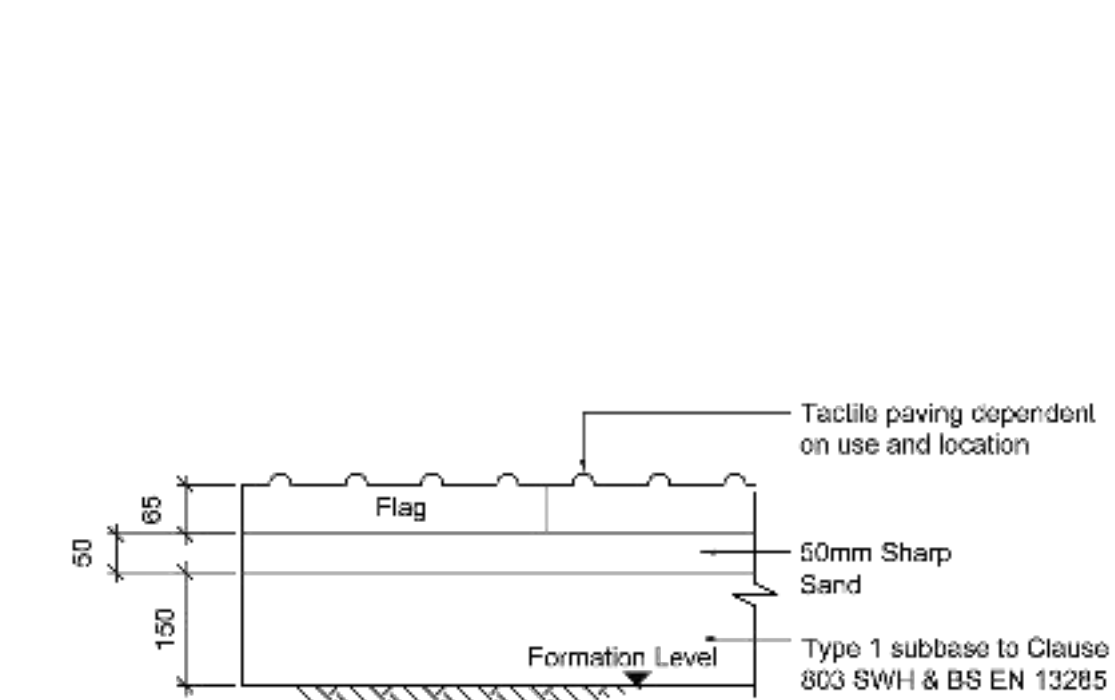
Construction	Secondary Distributor	Local Distributor	Major Access	Minor Access	Shared Surface	Industrial
Bituminous Layer Thickness	As per the DMRB	250mm	150mm	150mm	150mm	250mm
Surface Course material 1	As per the DMRB	40-50mm HRA & chips	40-50mm HRA & chips	40mm HRA & chips	40mm HRA & chips	40-50mm HRA & Chips
Surface course material 2						
Surface course material 3						
Surface course material 4						

***Note**

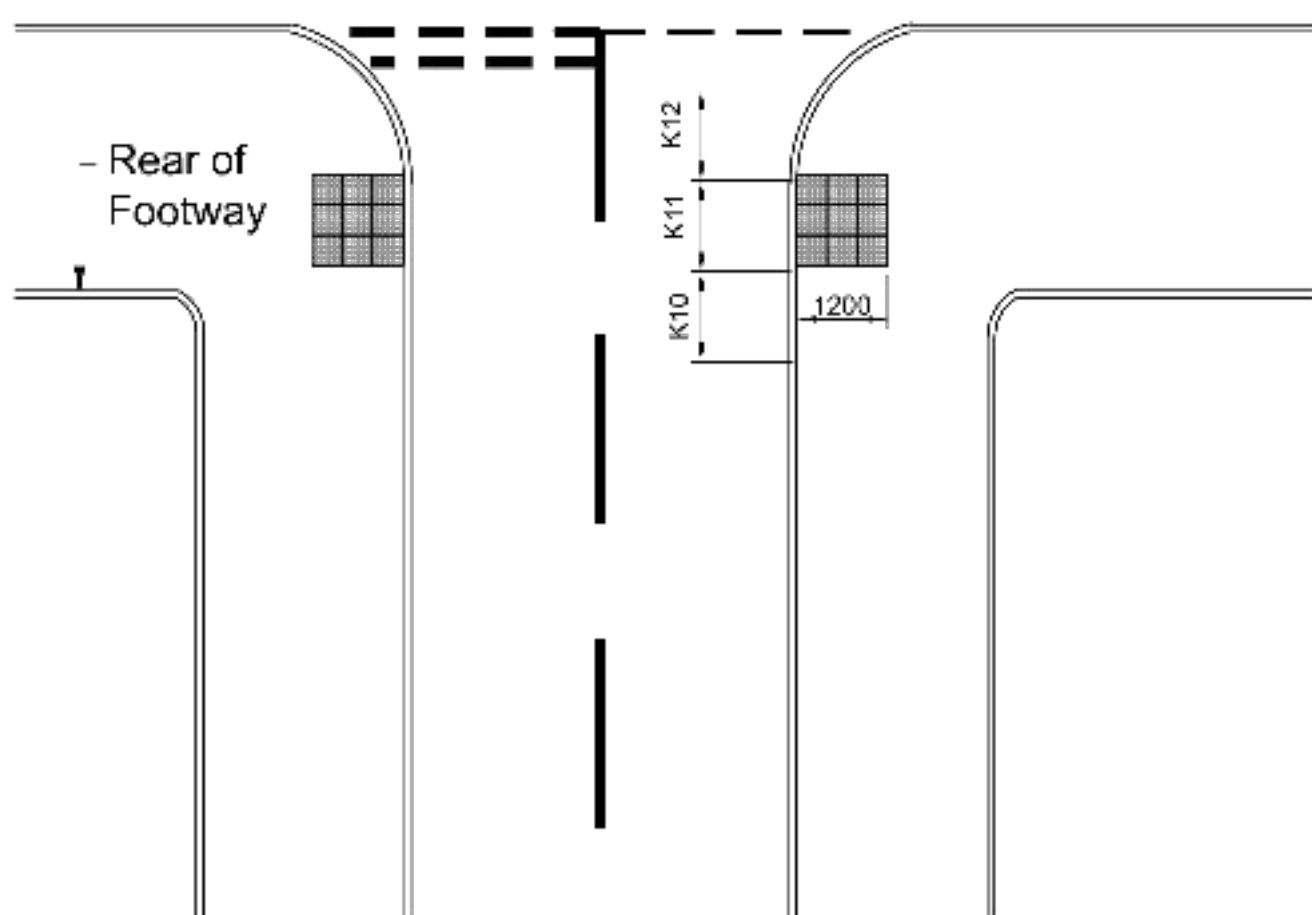
1. Carriageway Construction may vary depending on the category of road, existing construction and/or expected usage.
2. All materials specification to be in accordance with BS5949:1997
3. PSD assessment should be site specific in accordance with HCC acid resistance strategy.
4. HRA to be either HRA 30/14 F surf 40/60 Rec to Clause 910 SHW & BS EN 13108-4 or HRA 35/14 F surf 40/60 Pof to Clause 943 SHW & BS EN 13108-4
5. HSD HRA to be HRA 05/10 surf 40/60 to Clause 911 SHW & BS EN 13108-4
6. AC 10 Close surf to be AC10 close surf 100/150 to Clause 912 SHW & BS EN 13108-1
7. TSCS to TSCS 10 to Clause 942 SHW

Bituminous Layer & Surface Course Material - Table 2

SURFACE COURSE NOTE:
Surface course to be 40-50mm HRA & Chips for Major Access Road in accordance with notes 1-7 in Table 2.



Tactile Paving Cross Section
Scale: 1:10



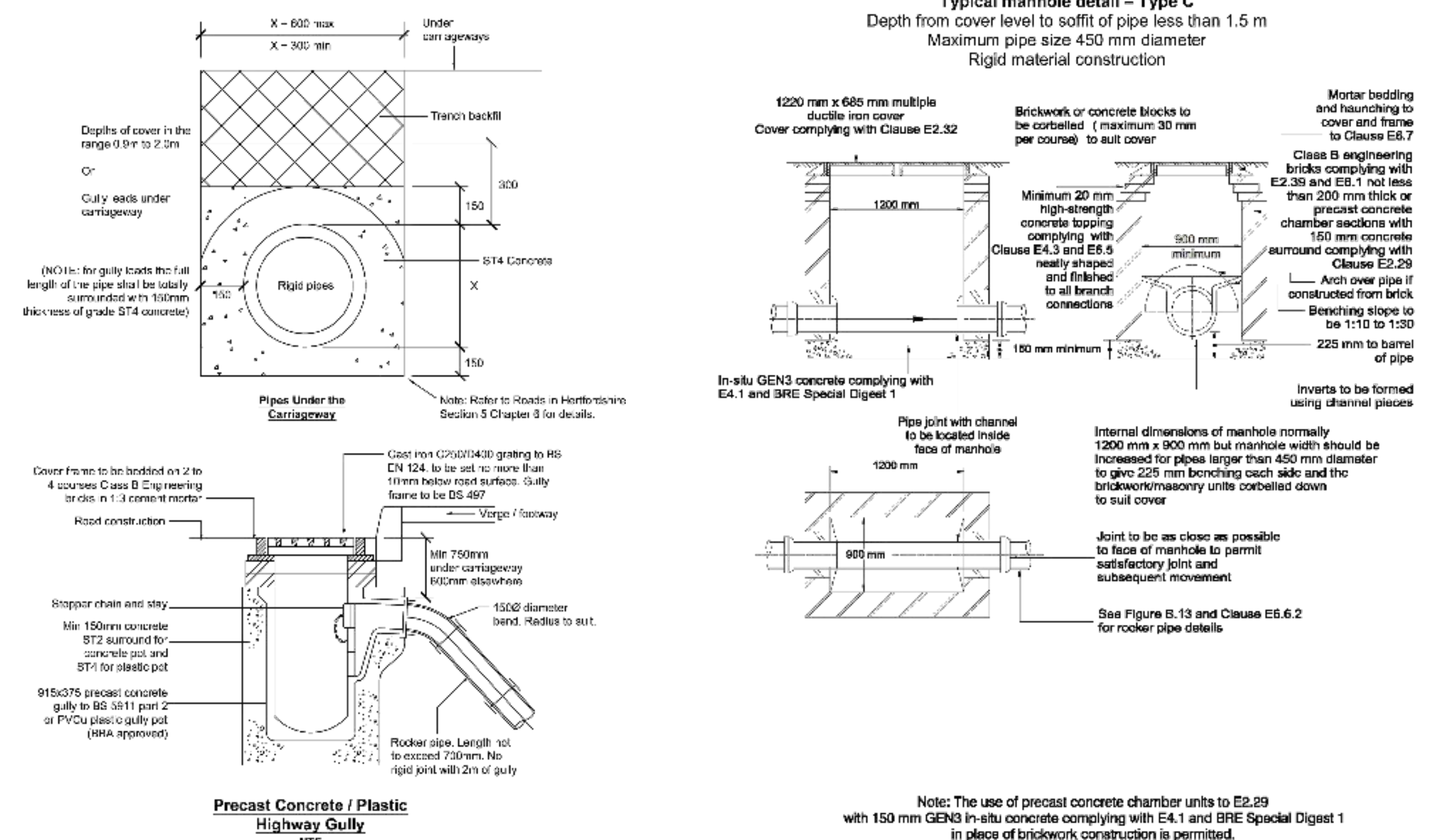
Typical In-Line Uncontrolled Pedestrian Crossing Tactile Paving Detail
NTS

- *Note:**
1. Tactile paving arrangement to be in accordance with DTI 'Guidance on the use of Tactile Paving Surfaces' 2002.
 2. Crossing Places must be directly opposite.

Approved Version
1.0
25 October 2019

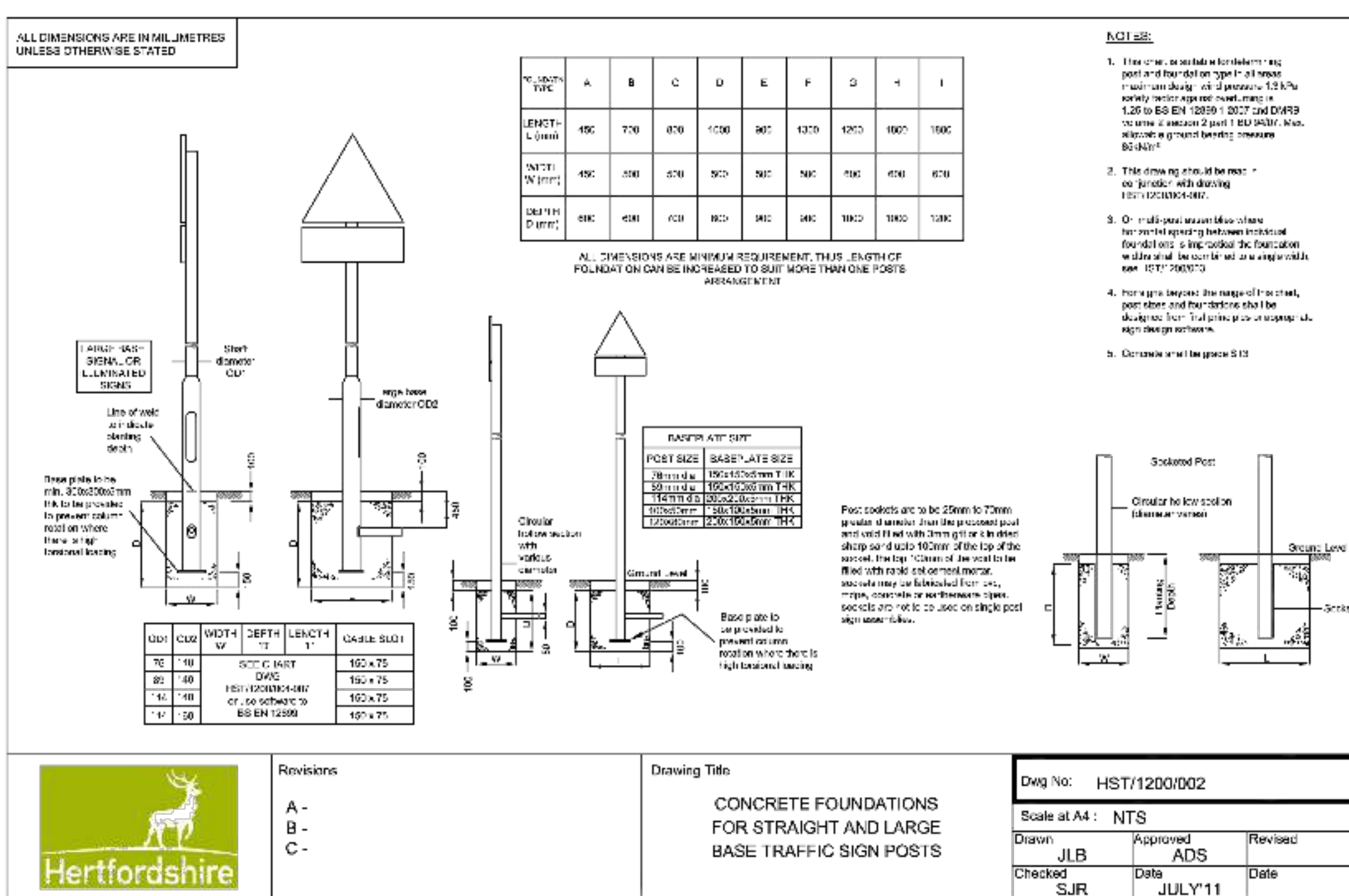
Sewerage Sector Guidance Appendix C

Figure B 14
Typical manhole detail - Type C
Depth from cover level to soffit of pipe less than 1.5 m
Maximum pipe size 450 mm diameter
Rigid material construction



Note: The use of precast concrete chamber units to E2.29 with 150mm GEN3 in-situ concrete complying with EA.1 and BRE Special Digest 1 in place of brickwork construction is permitted.

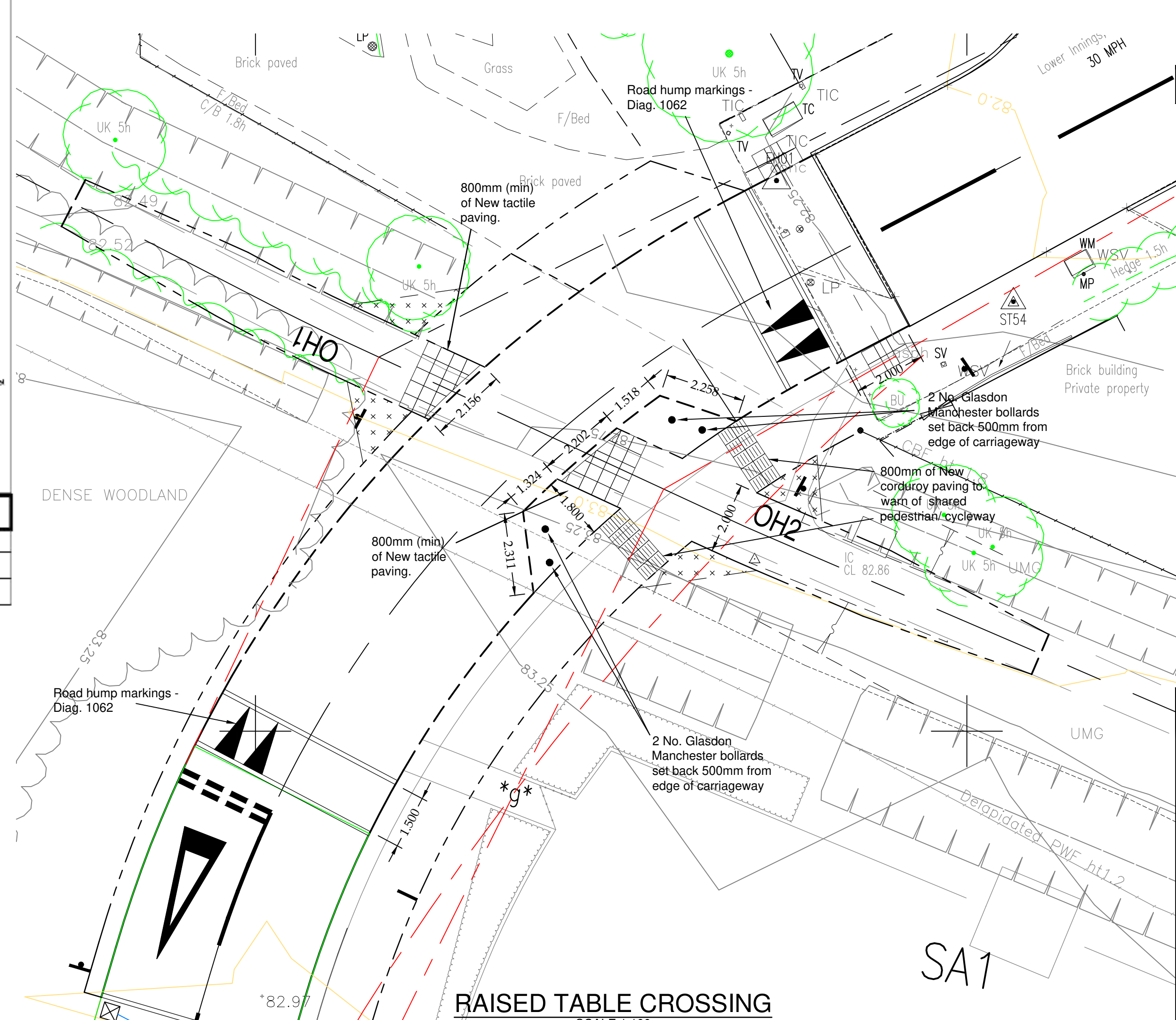
Not to scale



SECTION ALONG RAMP
CENTRELINE
SCALE: 1:20

NOTE:

All Street Furniture to be set back 500mm minimum from the carriageway edge. All Road signs to be set 2.1m minimum above finished levels.



RAISED TABLE CROSSING
SCALE: 1:100

Notes:

- 1.1 Do not scale from this drawing.
- 1.2 All dimensions are in m unless otherwise specified.
- 1.3 In case of any discrepancies in drawings or details refer to engineer for clarification. Unilateral decisions by the contractor will not be accepted.
- 1.4 This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- 1.5 The Contractor is to ensure that all design drawings and information are read concurrently and any discrepancies or omissions reported directly to Aventus Design.
- 1.6 This drawing is based upon the survey by Mark Beaver Surveying, reference 102103A dated 8th December 2022 provided in digital format.
- 1.7 Level datum of survey relate to OSGB36(02).
- 1.8 The grid relates to Ordnance Survey.
- 1.9 The Contractor must check the levels of all existing drainage outfalls prior to construction of any drainage, unless otherwise agreed, to ensure the proposed design may be achieved. Any discrepancies must be reported immediately to Aventus Design.
- 1.10 Sulphates have been determined as class 1 (DS-1) for design purposes in accordance with BRE Special Digest 1 (2001). Buried Concrete to be in accordance with ACIC Site Class AC-1.
- 1.11 All adoptable highway works to be in accordance with the Local Authorities Specifications.
- 1.12 All adoptable drainage works to be in accordance with the Water Authorities standard guidelines for connections etc.
- 1.13 Formation to road/hardstanding to be proof rolled and any soft spots in subgrade to be excavated and replaced with well compacted sub-base or free draining granular material to Department of Transport Specification for Highway Works Part 2 Table 6/1 Class 1 (General Granular Fill) and compacted in accordance with Table 6/4.

S278 NOTES

1. Tack coat class K140 to BS434 and rate of speed of spray between 0.35 - 0.55 l/m²
2. Spray weed killer before sub base is laid
3. Tolerance for Sub-base of +/- 10mm and +/- 3mm for binder course.
4. Any damages occurred whilst construction works to be reinstated

NOTE:

New Verges to consist of 150mm compacted topsoil
Weed removal to be sprayed at formation level of all verges and footway / crossovers.

CDM REGULATIONS 2015

Aventus Design have considered and where reasonably practicable avoided foreseeable risks in the preparation of the design shown on this and related drawings. Significant risks which remain and associated control measures are identified in the Risk Register and should be given particular attention by the main contractor on site.

RISKS RELATING TO THIS DRAWING:
RISK NUMBERS 6 - 9 on Risk Register

NOTE: The Risk Register records only those elements considered unusual, difficult to manage or outside the anticipated expertise of a competent contractor.

FOR APPROVAL



REV.	DATE	DESCRIPTION	CHK	APP
A10	30.01.25	Ramp amended to 1.5m to HCC request.	SU	-
A9	24.09.24	Surface Course note added, junction markings removed, reduced topsoil.	SU	-
A8	09.08.24	Via Splay & P550 amended.	SU	-
A7	06.06.24	Give way markings to Oughtonhead Lane (footway unmarked), curbside and tactile paving added.	SU	-
A6	28.03.24	Signage amended to new drawings.	SU	-
A5	05.02.24	Highway Comments incorporated.	SU	-
A4	06.12.23	Highway Comments incorporated.	SU	-
A3	04.02.23	For Approval.	-	-
A2	04.02.23	For Approval.	-	-
A1	03.02.23	For Approval.	-	-

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Tel: 01298 770066
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Client: **Cala Homes**
Site: **Oughtonhead Lane, Hitchin, Herts. SG5 2NA**

Title: **Section 278 Construction Details**
Project no: **P/A00140-C**
Drawing no: **202-DET**
Revision: **H1.402**
Scale: 1:200 in A0
Date: 23/01/25
Author: JLB
Checked: SJB
Approved: ADS
Date: 23/01/25

ORIGINAL SIZE - A0