

RESIDENTIAL VEHICULAR CROSSING CONSTRUCTION - LIGHT DUTY

20mm SURFACE COURSE: AC6 DENSE SURF 100/150 TO BS EN 13108-1.

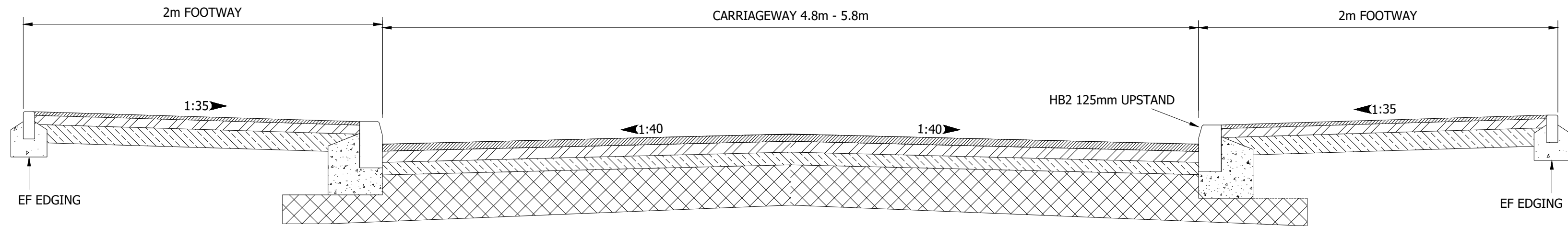
70mm BINDER COURSE: AC20 DENSE BIN 100/150 TO BS EN 13108-1

225mm SUB BASE AND CAPPING: GRANULAR SUB BASE MATERIAL TYPE 1

TABLE MC4: CARRIAGEWAY SUB-BASE AND CAPPING THICKNESS

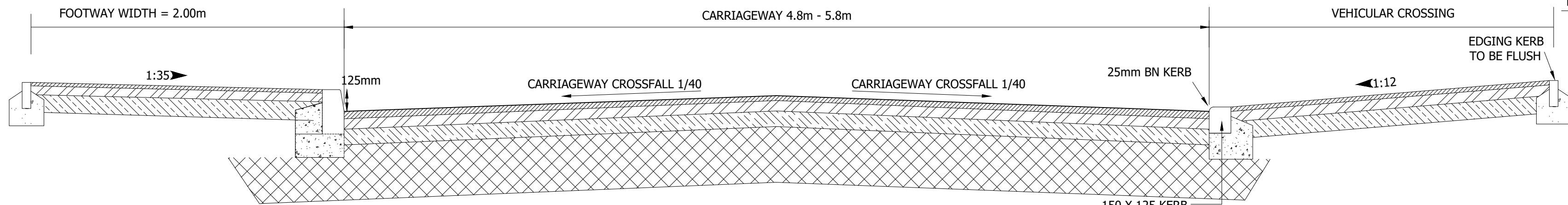
CBR Value	Min 450mm Frost Susceptibility (see clause 4.68)		Access Road (260mm Bituminus layer thickness)	
	Capping (mm)	Sub Base (mm)	Capping (mm)	Sub Base (mm)
Less than 2%	550	200	500	250
2%	400	200	350	250
3%	300	200	250	250
4%	250	200	200	250
5% to 15%	200	200	200	250
More than 15%		200		250

- THE FOUNDATION DESIGN SHOULD NOT VARY FREQUENTLY ALONG THE ROAD. SELECT AN APPROPRIATE VALUE FOR EACH SIGNIFICANT CHANGE IN THE SUBGRADE PROPERTIES.
- WHERE THE EQUILIBRIUM CBR FALLS BETWEEN VALUES IN THE ABOVE TABLE, YOU SHOULD ROUND DOWN THE VALUE TO THE LOWER VALUE.
- WHEN THE SUBGRADE CBR IS SUFFICIENTLY BELOW 2% THAT CAPPING WITH SUB-BASE IS NOT SUFFICIENT TO SUPPORT THE PAVEMENT, SPECIAL MEASURES WILL BE REQUIRED. FIND ADVICE IN DMRB 7.2.2 HD29/94.



TYPICAL CROSS SECTION THROUGH CARRIAGEWAY - RESIDENTIAL ACCESS ROAD

SOME ROADS ARE IN CROSSFALL FROM LEFT TO RIGHT CHANNEL AND FROM RIGHT TO LEFT CHANNEL, PLEASE REFER TO ROAD CONTOURS

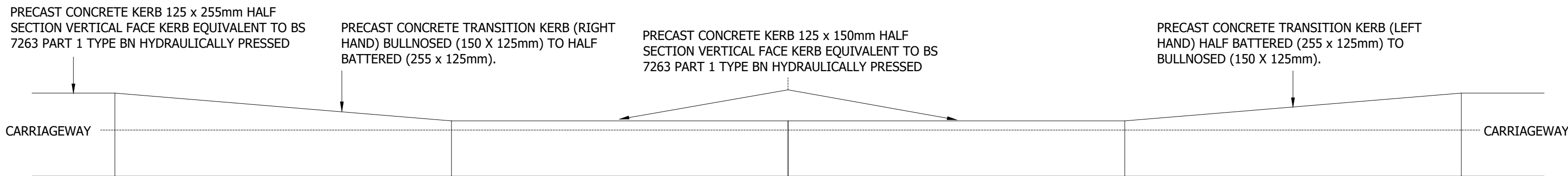
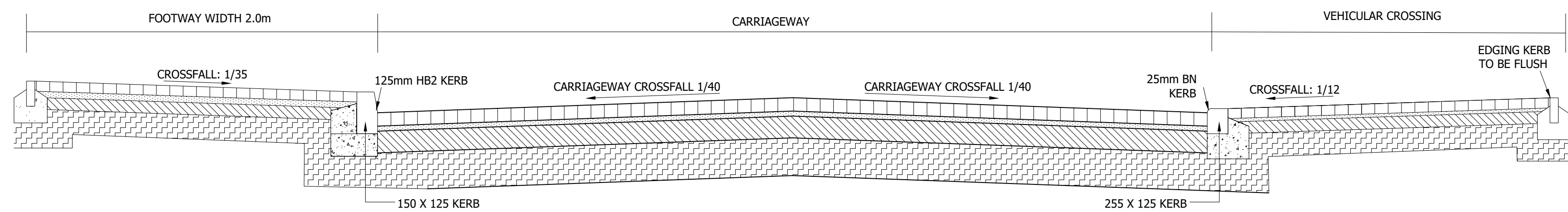


TYPICAL CROSS SECTION THROUGH CARRIAGEWAY - RESIDENTIAL ACCESS ROAD WITH VEHICULAR CROSSING

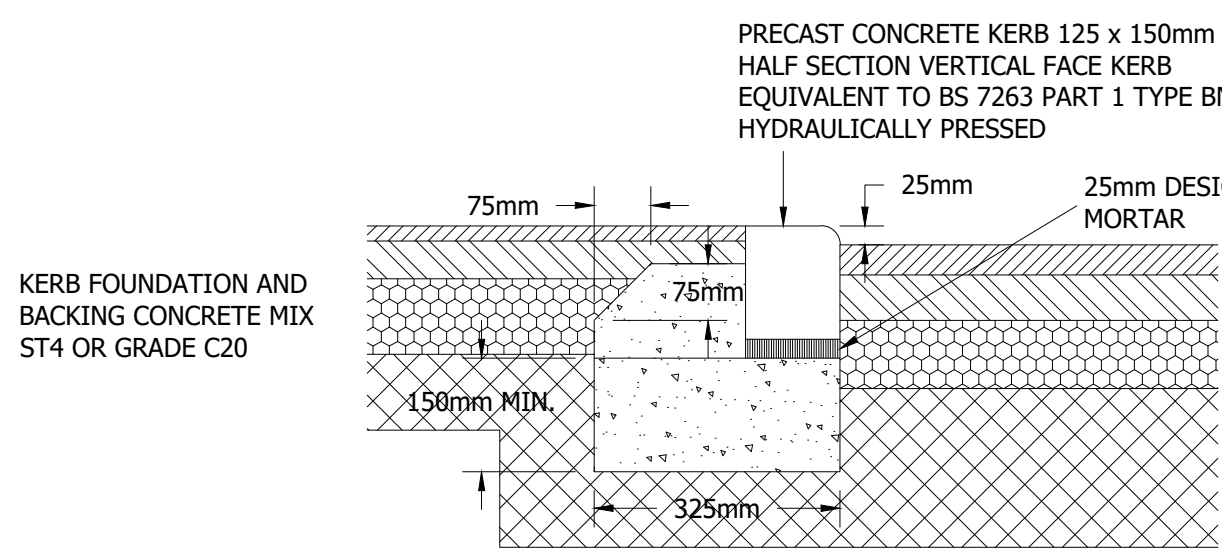
MINIMUM TOTAL CARRIAGEWAY CONSTRUCTION THICKNESS SHOULD NOT BE LESS THAN 450mm AND THE SUB-BASE LAYER SHOULD BE INCREASED AS NECESSARY.

TYPICAL CARRIAGEWAY CONSTRUCTION - BLOCK PAVED

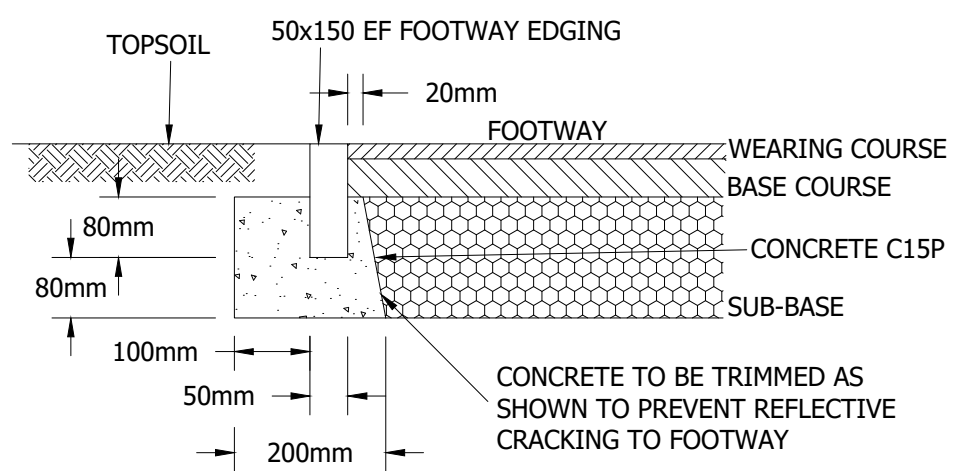
PLEASE SEE TABLE III-IV AND III-IIIa FOR CONSTRUCTION DETAILS



DROPPED CROSSING (WITH THE USE OF TRANSITION KERBS) ELEVATION



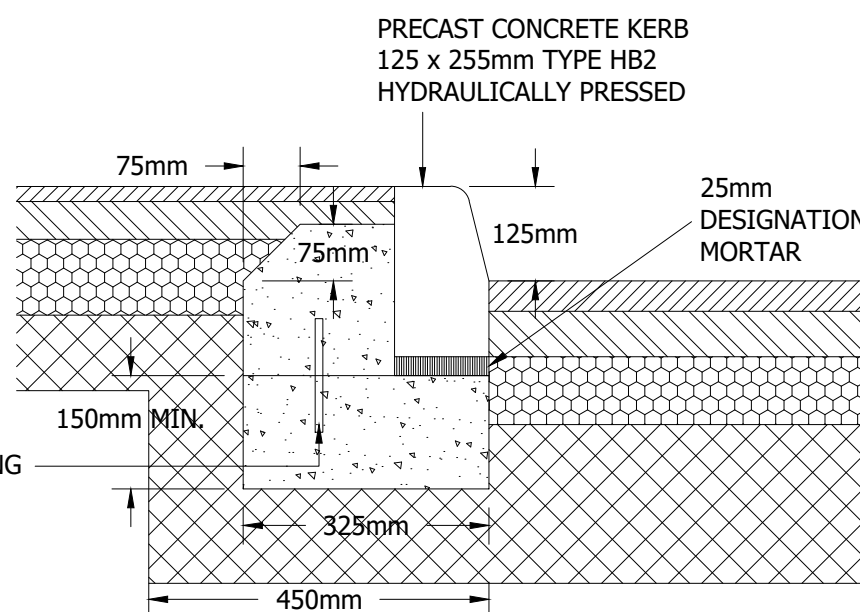
KERB TYPE 3 (BULLNOSED)



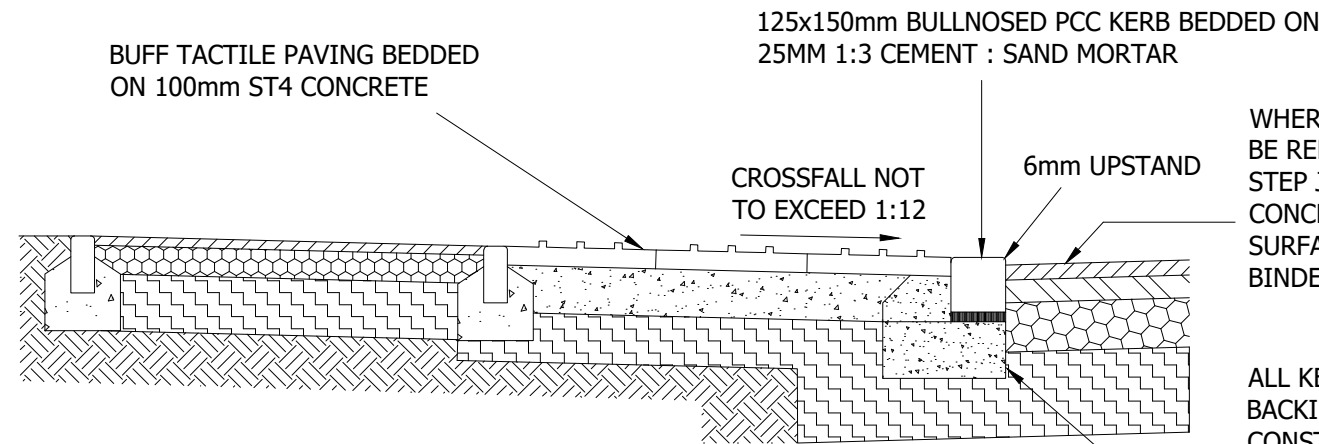
FOOTWAY EDGING EF - 150

KERB FOUNDATION AND BACKING CONCRETE MIX ST4 OR GRADE C20

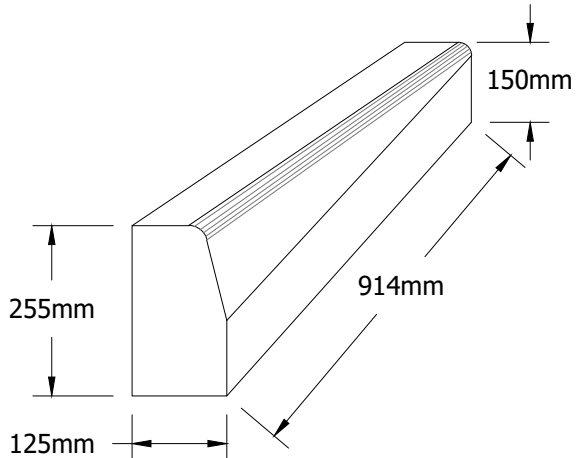
16mmØ STEEL HOOPS BETWEEN KERB & BEDDING AT 450mm CENTRES.



KERB TYPE 2 (HALF BATTER)

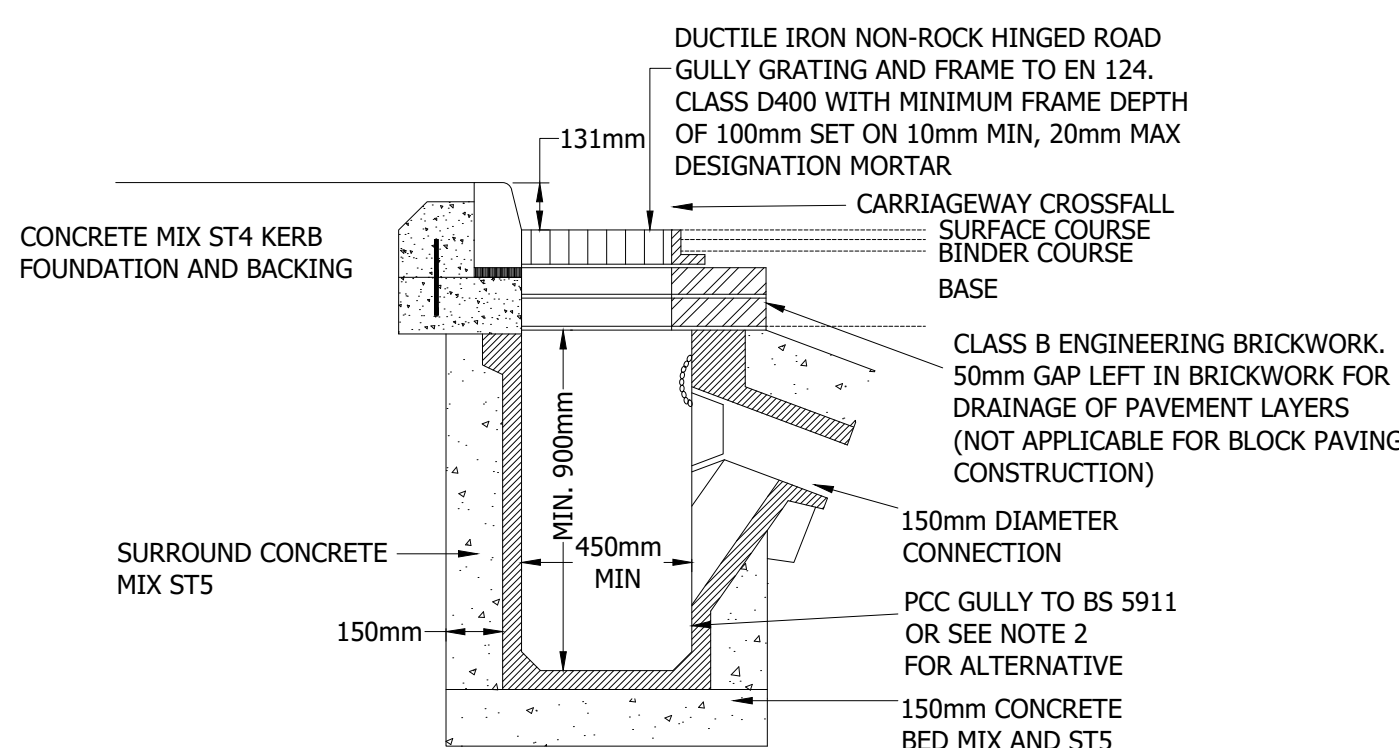


TACTILE PAVING SECTION

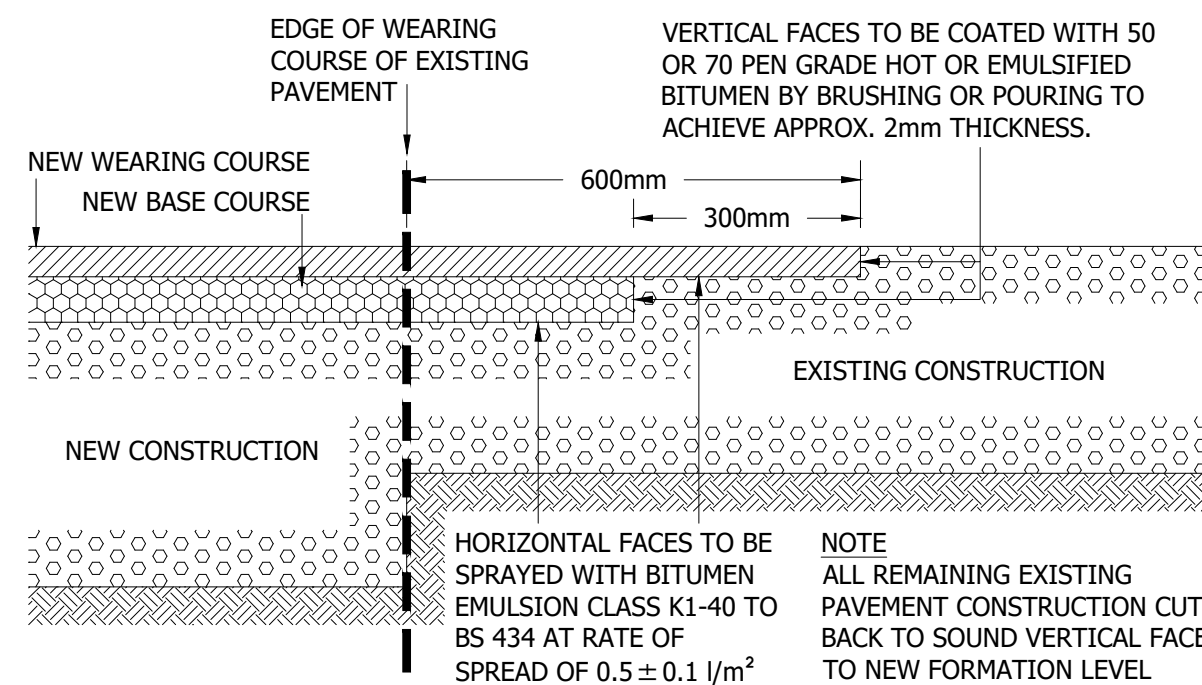


TRANSITION KERB UNIT 3D DETAIL

- GULLY NOTES:
1. TO BE CONSTRUCTED IN ACCORDANCE WITH CL6.23
 2. ALTERNATIVE TYPES OF GULLY POT:
i) UPVC FORMER WITH CONCRETE MIX ST5 SURROUND
ii) SALT GLAZED STONEWARE WITH CONCRETE MIX ST5 SURROUND
 3. WHERE A UPVC GULLY IS TO BE CONNECTED TO PRECAST CONCRETE OR SALT GLAZED STONEWARE THE CONNECTION IS TO BE MADE USING AN APPROVED ADAPTOR
 4. TOP OF CONCRETE SURROUND TO FINISH FLUSH WITH GULLY POT



TYPICAL GULLY DETAIL



CARRIAGEWAY TIE-IN NEW TO EXISTING AT EXISTING LEVEL

KERBING NOTES:

1. KERB FOUNDATIONS FOR TYPES 1-3 SHALL BE NOT LESS THAN 150mm THICK AND SHOULD BE SEATED ON OR IN THE SUB BASE; THIS DEPENDING ON PAVEMENT CONSTRUCTION THICKNESS ADOPTED.
2. ALL KERBS SHALL BE LAID ON A 25mm BED OF MORTAR DESIGNATION (I). REFER TO CLAUSE 6.15 IF THE SPECIFICATION.
3. ADEQUATE BOND SHALL BE PROVIDED BETWEEN FOUNDATION AND HAUNCH. PREFERRED METHOD OF BONDING TO BE BY MEANS OF STEEL REINFORCEMENT HOOPS AT 900mm CENTRES OR ANY OTHER METHOD TO BE APPROVED BY THE ENGINEER.
4. PRAM CROSSINGS SHALL BE AS VEHICULAR ACCESSES, BUT WITH NORMAL FOOTWAY CONSTRUCTION AND WITH 2 DROPPED KERBS. FOR FURTHER INFORMATION REFER TO 6C'S STANDARD DETAIL DRAWINGS.
5. MORTAR JOINTS BETWEEN KERBS NOT TO BE PROVIDED UNLESS SPECIFIED BY THE ENGINEER. GAPS BETWEEN KERBS TO BE 1 TO 2mm WHERE MORTAR JOINTING IS SPECIFIED.
6. KERB BACKING NORMALLY BROUGHT UP TO 50mm BELOW TOP OF KERB, BUT WHERE FINAL SURFACE OF FOOTWAYS IS SLAB PAVING, KERB BACKING SHALL FINISH 75mm BELOW TOP OF KERB.
7. FOR BLOCK PAVED FOOTWAYS THE DETAIL RELEVANT FOR A KERB TYPE TO BE AGREED WITH THE ENGINEER.
8. FOR RADIUS WORKS KERBS SHALL BE AS FOLLOWS:
RADIUS 12m OR LESS - KERBS MANUFACTURED TO AN APPROPRIATE RADIUS;
RADIUS 12m TO 45m - STRAIGHT KERBS OF A LENGTH OF 610mm;
RADIUS 45m OR GREATER - STRAIGHT KERBS OF STANDARD LENGTH.

1. DO NOT SCALE FROM THIS DRAWING. IF IN DOUBT CONTACT TRAVIS BAKER LIMITED.
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS RELATING TO THIS PROJECT.
4. ALL DIMENSIONS SHOULD BE CHECKED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHOULD BE IMMEDIATELY NOTIFIED IN WRITING TO TRAVIS BAKER LIMITED.
5. THE CONTRACTOR SHALL PRIOR TO CONSTRUCTION CHECK AND VERIFY THAT THE DETAILS SHOWN ON THIS DRAWING ARE FULLY COMPATIBLE WITH ANY AS CONSTRUCTED DIMENSIONS OR LEVELS. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY IN WRITING TO TRAVIS BAKER LIMITED.
6. THIS DRAWING HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF THE COMMISSIONING PARTY AND UNLESS AGREED IN WRITING BY TRAVIS BAKER LIMITED NO OTHER PARTY MAY USE OR RELY ON ITS CONTENTS. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED FOR ANY USE OF THIS DRAWING OTHER THAN FOR THE PURPOSE FOR WHICH IT WAS ORIGINALLY PREPARED.
7. IT SHOULD BE NOTED THAT THIS DRAWING MAY INCLUDE DATA PROVIDED BY THIRD PARTIES. NO LIABILITY IS ACCEPTED BY TRAVIS BAKER LIMITED AS TO THE ACCURACY OF THIS DATA.
8. THIS DRAWING SHALL NOT BE REPRODUCED IN ANY WAY WITHOUT THE WRITTEN PERMISSION OF TRAVIS BAKER LIMITED.

Surfacing	20 mm	Bituminous		Block Paving	
		AC 6 dense surf 100/150	90 mm	60 mm blocks on 30 mm bedding sand (compacted)	
		(MHA material reference SC12)			
Base course	50 mm	AC 20 dense bin 160/220 rec	70 mm	AC 20 dense bin 160/220 rec	
		(MHA material reference BC3)		(MHA material reference BC3)	
Sub-base	160 mm	Granular Type 1	150 mm	Granular Type 1	
		(MHA material reference SB1)		(MHA material reference SB1)	
	or 225 mm	Granular Type 1		includes vehicular crossings serving 5 or less dwelling	
		(MHA material reference SB1)			
		vehicular crossings serving 5 or less dwellings			

Table III-IV: Residential Footways Construction materials and depths

Type of Street	Conventional Street and Share-Surface Street Residential Streets		
Element	Bituminous	Block	Notes
Depth			
Surface course	40 mm AC 10 Close surf 100/150 (MHA material reference QC11)	1, 2	80mm
Binder course	70 mm AC 20 dense bin 100/150 rec (MHA material reference BC2)	2	30mm sand
Base	150 mm AC 32 base 40/60 rec (MHA material reference B1)	2	150mm AC32 base 40/60 rec
Total	260 mm		260 mm

1. HRA 50/10 bin 40/60 (material ref REG1) may be used for hand laying speed tables.
2. Hard stone aggregate is required for all bituminous layers.

Table III-IIIa: Roads carriageway construction depths

REV	DESCRIPTION	DATE	BY	AUTH
C	ADDITION OF BLOCK PAVED CROSS SECTION.	05.07.19	GG	TW
B	UPDATED BLOCK PAVING DETAILS.	05.07.19	GG	TW
A	UPDATED TO SUIT S38 COMMENTS.	23.05.19	GG	TW

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CLIENT			
CAMERON HOMES			
PROJECT			
MILTON ROAD, REPTON			
TITLE			
HIGHWAY CONSTRUCTION DETAILS			
DRAWN	AUTHORISED	SCALE	DATE
DV	TW	NTS-@A1	08/04/2019
PROJECT NO.		DRAWING NO.	REV
18084		310	C
STATUS.			
PRELIMINARY			
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