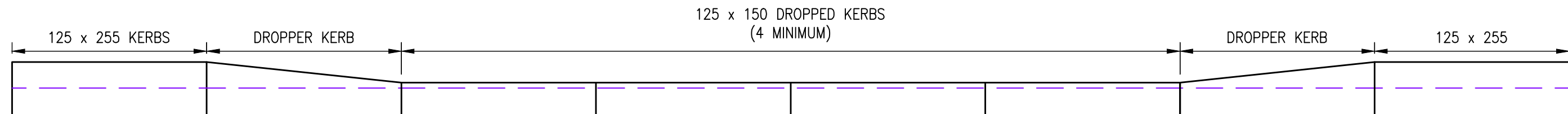
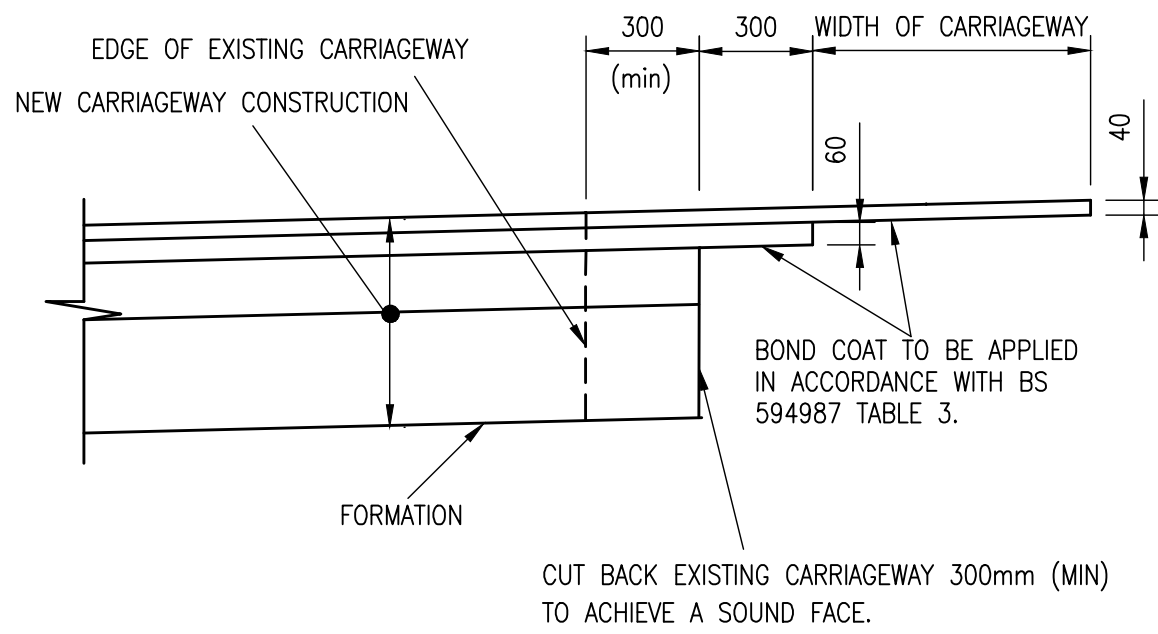
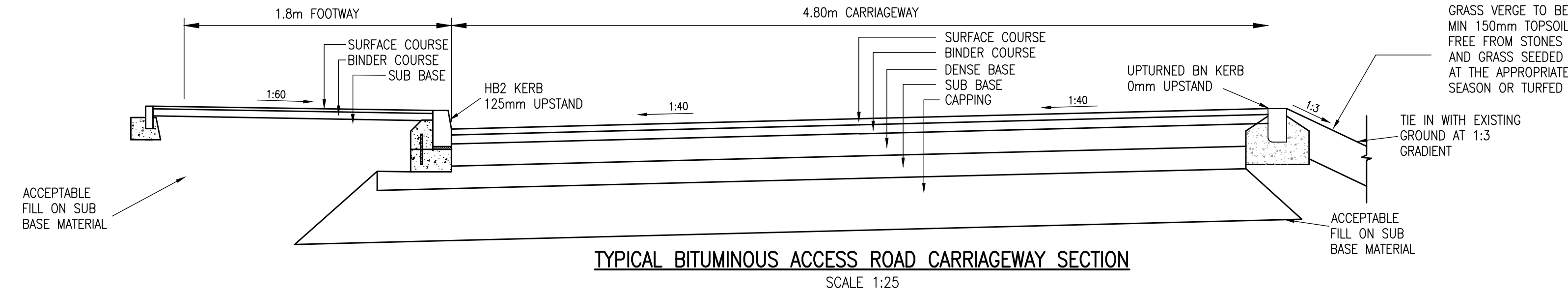


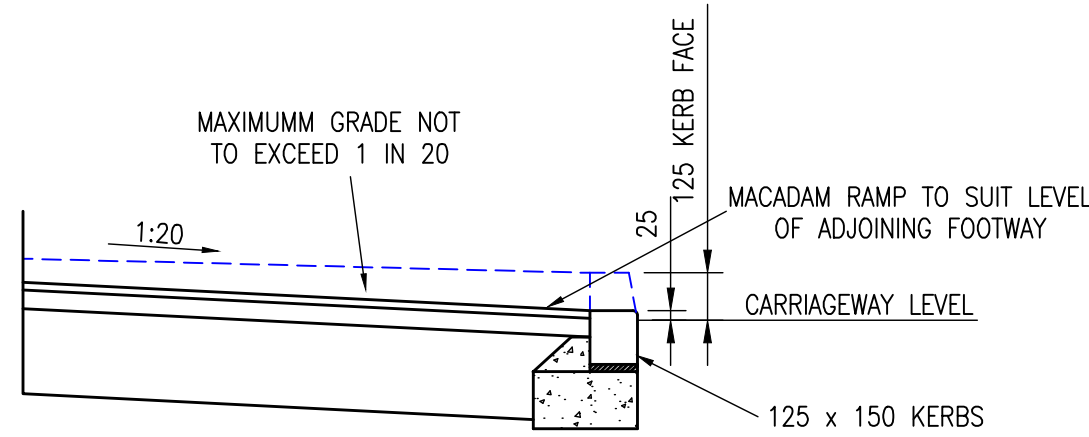
NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- CONCRETE BEDS TO KERBS VIBRATED AND THE SURFACE ROUGHENED TO PROVIDE A KEY FOR BACKING. ADEQUATE BOND SHALL BE PROVIDED BETWEEN FOUNDATION AND HAUNCH BY STEEL REINFORCEMENT HOOPS AT 900mm CENTRES OR SIMILAR APPROVED.
- ALL KERBS TO BE LAID ON A 25mm BED OF CLASS 1 SAND/CEMENT MORTAR.
- KERBS TO BE LAID IN SMOOTH VERTICAL AND HORIZONTAL ALIGNMENTS. FOR CURVES OF RADIUS 12m OR LESS PRECAST KERBS OF APPROPRIATE RADIUS SHALL BE USED.
- CBR TESTS SHALL BE CARRIED OUR PRIOR TO CONSTRUCTION TO DETERMINE THE NEED FOR A CAPPING LAYER AND THE THICKNESS OF SUB-BASE.
- SULPHATE RESISTING CEMENT PRODUCTS TO BE USED THROUGHOUT FOR DRAINAGE WORKS.
- THE FRAMES TO GULLY POTS SHALL BE BEDDED ON A FULL MORTAR BED OF 1:3 CEMENT/SAND MORTAR. THEY SHALL BE ACCURATELY SET FOR THE LEVEL AND POSITIONED ON AT LEAST 1 COURSE OF ENGINEERING BRICKS, SO THAT THE TOP OF THE FRAME WILL NORMALLY BE SET BELOW THE FINISHED CHANNEL LEVEL. THE ALLOWABLE TOLERANCE SHALL BE 0 TO -5mm.
- BRICKWORK SHALL COMPLY WITH BS 3921:1995 FOR CLASS B ENGINEERING BRICKS, SET ON 1:3 CEMENT/SAND MORTAR.
- ALL TRENCHES WITHIN ROAD AREAS SHALL BE BACKFILLED WITH 75MM IRONSTONE.
- THE MINIMUM TOTAL CARRIAGEWAY CONSTRUCTION THICKNESS SHALL NOT BE LESS THAN 450mm.
- GULLIES, STOPCOCK AND METER COVERS SHALL NOT BE LOCATED WITHIN THE VEHICULAR CROSSING EXTENTS.
- BOND COAT TO BE APPLIED BETWEEN BITUMINOUS LAYERS IMMEDIATELY PRIOR TO LAYING IN ACCORDANCE WITH CL. 706 OF BS 594987:2015.

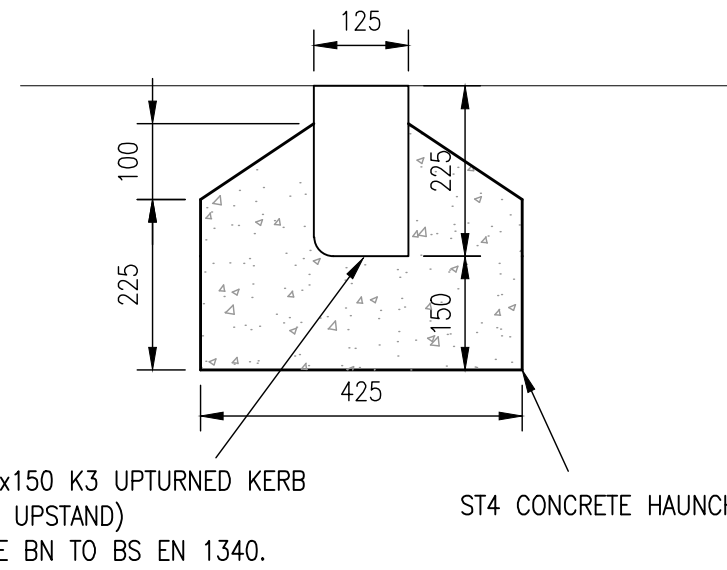


DETAIL OF KERBING AT VEHICULAR ACCESS

- NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - WHERE PRACTICABLE THE SURFACE LEVELS SHALL BE SUCH THAT THEY FALL AWAY FROM THE HIGHWAY BOUNDARY WHERE THE INTERNAL ACCESS FALLS TOWARDS THE HIGHWAY AN APPROVED DRAINAGE CHANNEL SYSTEM SHALL BE INSTALLED ON THE PRIVATE SIDE OF THE HIGHWAY BOUNDARY.

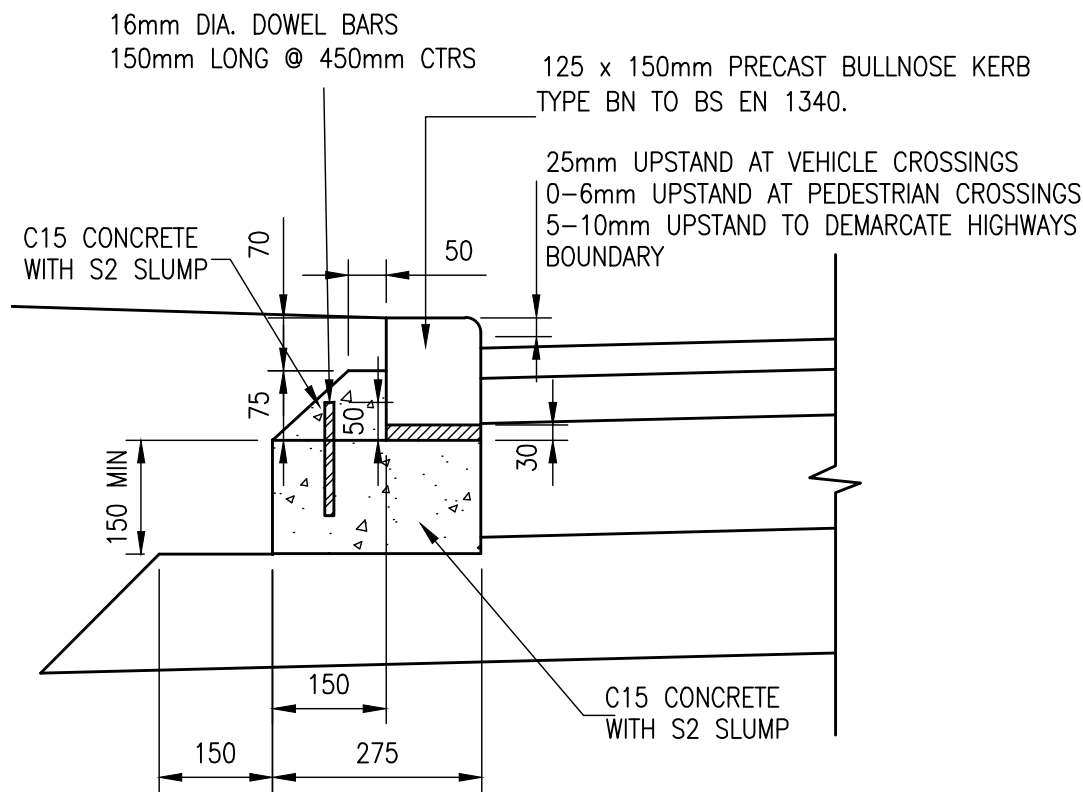


SECTION THROUGH VEHICULAR ACCESS



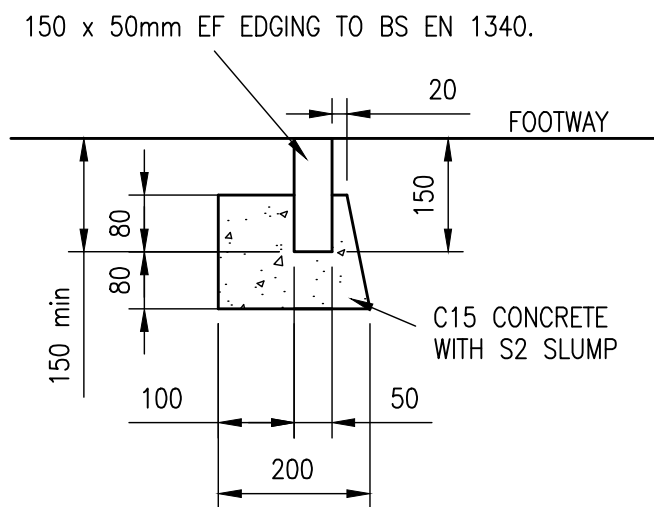
UPTURNED EDGING KERBS (BN)

SCALE 1:10



BULLNOSE DROPPED KERB (BN)

SCALE 1:10



FOOTWAY/VERGE EDGING DETAIL (EF)

SCALE 1:10

ROAD CARRIAGEWAY CONSTRUCTION MATERIALS AND DEPTHS

LAYER	THICKNESS	DETAILS	NOTES
SURFACE COURSE	40mm	SMA 10 SURF 40/60 (PSV 55) (MHA MATERIAL REFERENCE SC2)	1,2
	40mm	HRA 55/10 F SURF 40/60 DES (MHA MATERIAL REFERENCE SC7)	2
	40mm	AC 10 CLOSE SURF 100/150 (MHA MATERIAL REFERENCE SC11)	2
BINDER COURSE	60mm	AC 20 DENSE BIN 100/150 REC (MHA MATERIAL REFERENCE BC2)	
BASE	150mm	AC32 BASE 40/60 REC (MHA MATERIAL REFERENCE B1)	
NOTES	1. POLISHED STONE VALUE (PSV) OF COURSE AGGREGATE IN SURFACING COURSE SHALL BE DETERMINED FROM THE TABLE 1.1 POLISHED STONE VALUES FOR SURFACE TREATMENTS ON PAGE 16 OF OUR SKIDDING RESISTANCE PROCEDURE. 2. HRA 50/10 BIN 40/60 (MATERIAL REF. REG1) MAY BE USED FOR HAND LAYING SPEED TABLES. 3. SUBGRADE ASSESSMENT CAPPING LAYER/SUB BASE DESIGN ARE COVERED IN SECTION MC10 PARAS 4.65-4.7 4. ANY BINDER COURSE MATERIAL LAID AS RUNNING SURFACE PRIOR TO THE FINAL SURFACE COURSE BEING LAID MUST HAVE A MINIMUM PSV OF 55 AND AAV OF 7.		

FIGURE 1 – SUB-BASE & CAPPING THICKNESSES

CBR	CAPPING	SUB BASE
<2%	550	200
2%	400	200
3%	300	200
4%	250	200
5%-15%	200	200
>15%	-	200

NOTE:

- SUB-BASE TO BE DEEPEENED TO PROVIDE A MINIMUM OF 450mm OVERALL CARRIAGEWAY CONSTRUCTION DEPTH. MATERIALS WITHIN 450mm OF THE FINISHED ROAD SURFACE MUST NOT BE FROST SUSCEPTIBLE.
- 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. SEE DMRB 7.2.2 HD25/94

BITUMINOUS FOOTWAY SPECIFICATION

LAYER	THICKNESS	DETAILS
SURFACE COURSE	20mm	AC 6 DENSE SURF 100/150 (MHA MATERIAL REF SC12)
BINDER COURSE	50mm	AC20 DENSE BIN 160/220 REC (MHA MATERIAL REF BC3)
SUB-BASE	160mm	GRANULAR TYPE 1 (MHA MATERIAL REF SB1)

KERBING NOTES:

- KERB FOUNDATIONS SHALL NOT BE LESS THAN 150mm THICK, AND SHOULD BE SEATED ON OR IN THE SUB-BASE. THIS DEPENDING ON PAVEMENT CONSTRUCTION THICKNESS ADOPTED.
- 50mm DIAMETER WEEPHOLES TO BE FORMED THROUGH THE KERB FOUNDATIONS AT 10m CENTRES ON LOW CHANNELS.
- ALL KERBS SHALL BE LAID ON A 10mm BED OF DESIGNATION (I) MORTAR UNLESS LAID WITH THE FOUNDATION IN ONE OPERATION.
- ADEQUATE BOND MUST BE MADE BETWEEN FOUNDATION AND HAUNCH IF LAID IN MORE THAN ONE OPERATION. PREFERRED METHOD OF BONDING TO BE BY MEANS OF STEEL REINFORCEMENT MESH. ANY OTHER METHOD TO BE APPROVED BY THE ENGINEER.
- PEDESTRIAN CROSSINGS SHALL BE AS VEHICULAR ACCESSSES, BUT WITH NORMAL FOOTWAY CONSTRUCTION.
- MORTAR JOINTS BETWEEN KERBS NOT TO BE PROVIDED UNLESS SPECIFIED. GAPS BETWEEN KERBS TO BE 1 TO 2mm WHERE MORTAR JOINTING IS SPECIFIED. EXPANSION JOINTS TO BE PROVIDED THROUGH KERBS. BED AND BACKING AT 15mm CENTRES WHEN LAID ADJACENT TO OR ON CONCRETE PAVEMENT.
- KERB BACKING NORMALLY BROUGHT UP TO 50mm BELOW TOP OF KERB, BUT WHERE FINAL SURFACE OF FOOTWAY IS SLAB PAVING, KERB BACKING SHALL FINISH 75mm BELOW TO OF KERB.
- FOR RADIUSSED WORK, KERBS SHALL BE AS FOLLOWS:-

RADIUS 12m OR LESS – KERBS MANUFACTURED TO AN APPROPRIATE RADIUS.

RADIUS 12m TO 20m – STRAIGHT KERBS OF A CONSISTENT LENGTH IN THE RANGE OF 450mm TO 600mm.

RADIUS 20m OR GREATER – STRAIGHT KERBS.

THIS DRAWING IS FOR INFORMATION/ APPROVAL AND SUBJECT TO AMENDMENT. NO RELIANCE SHOULD BE TAKEN UNTIL THE DRAWING STATUS IS CHANGED TO 'FOR CONSTRUCTION'.

A	UPDATED TO PRIVATE	MW	DMH	AW	12.09.24
-	FIRST ISSUE	MW	DMH	AW	01.08.24
REV:	AMENDMENTS:	DRN:	CHK:	APP:	DATE:
PROJECT: CHAPEL LANE WITHERLY					
DRAWING TITLE: HIGHWAY CONSTRUCTION DETAILS SHEET 1 OF 2					
CLIENT: A.R. CARTWRIGHT CONSTRUCTION LTD					
DRAWING NUMBER: 20652_03_080_01.1					
REVISION: A	SHEET SIZE: A1	SCALE: AS SHOWN			
STATUS: FOR INFORMATION / APPROVAL					
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