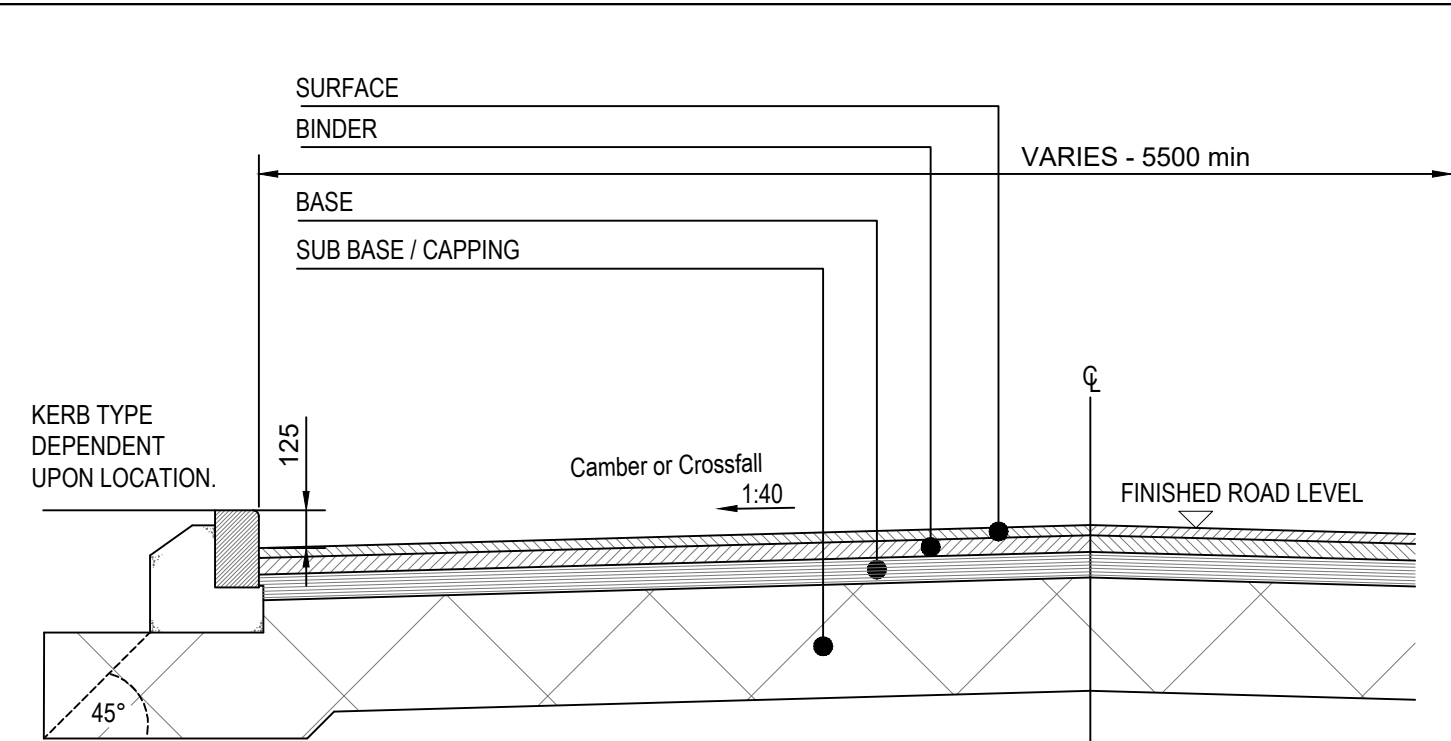
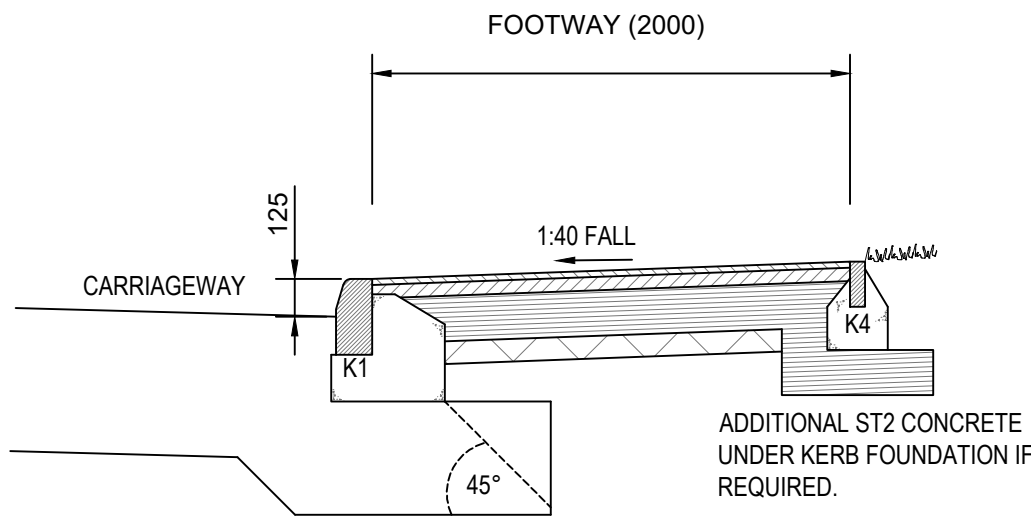
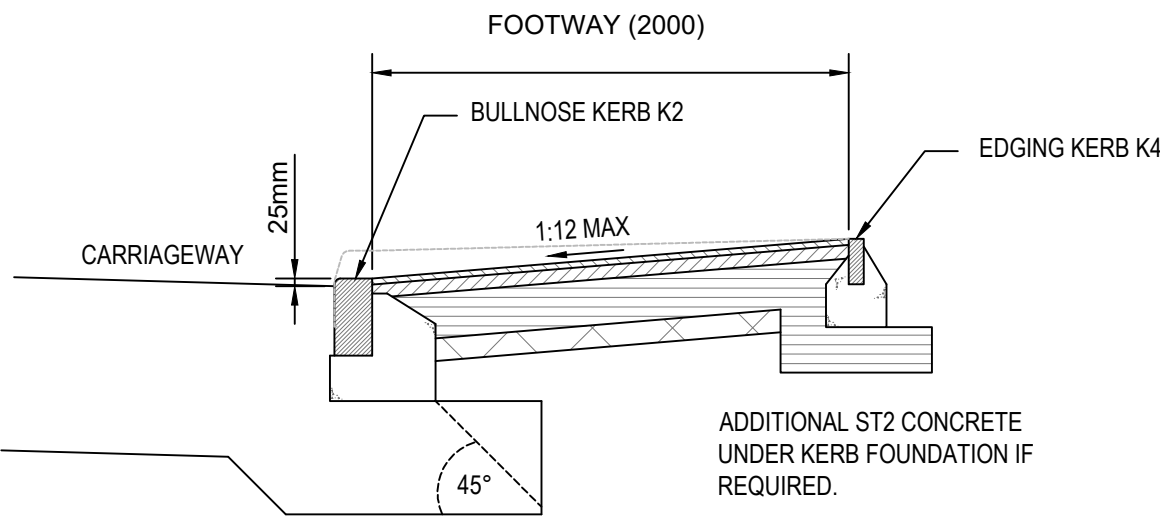




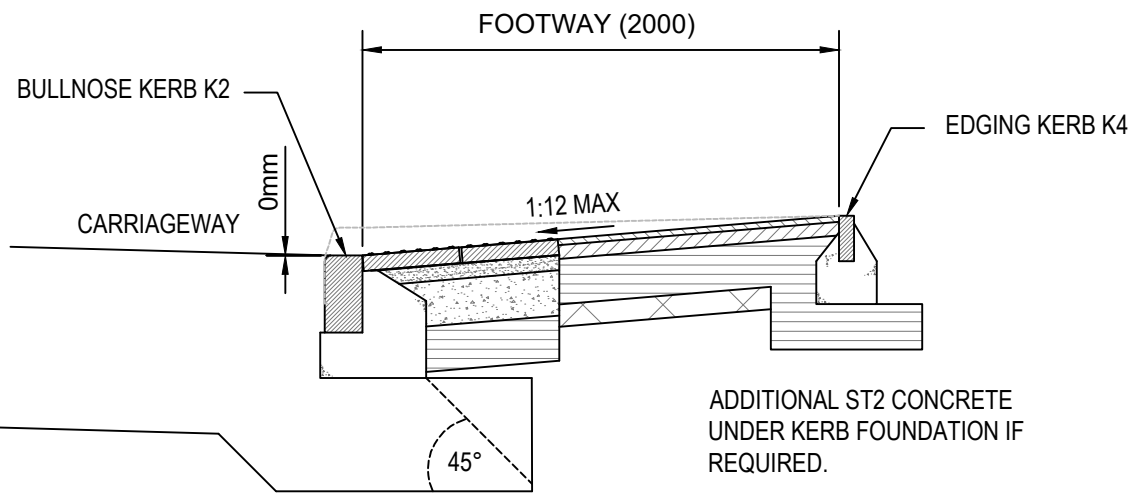
TARMACADAM/ BLOCK PAVED CARRIAGEWAY
SEE TABLES FOR CONSTRUCTION DETAILS
SPEC 1
SCALE 1:25



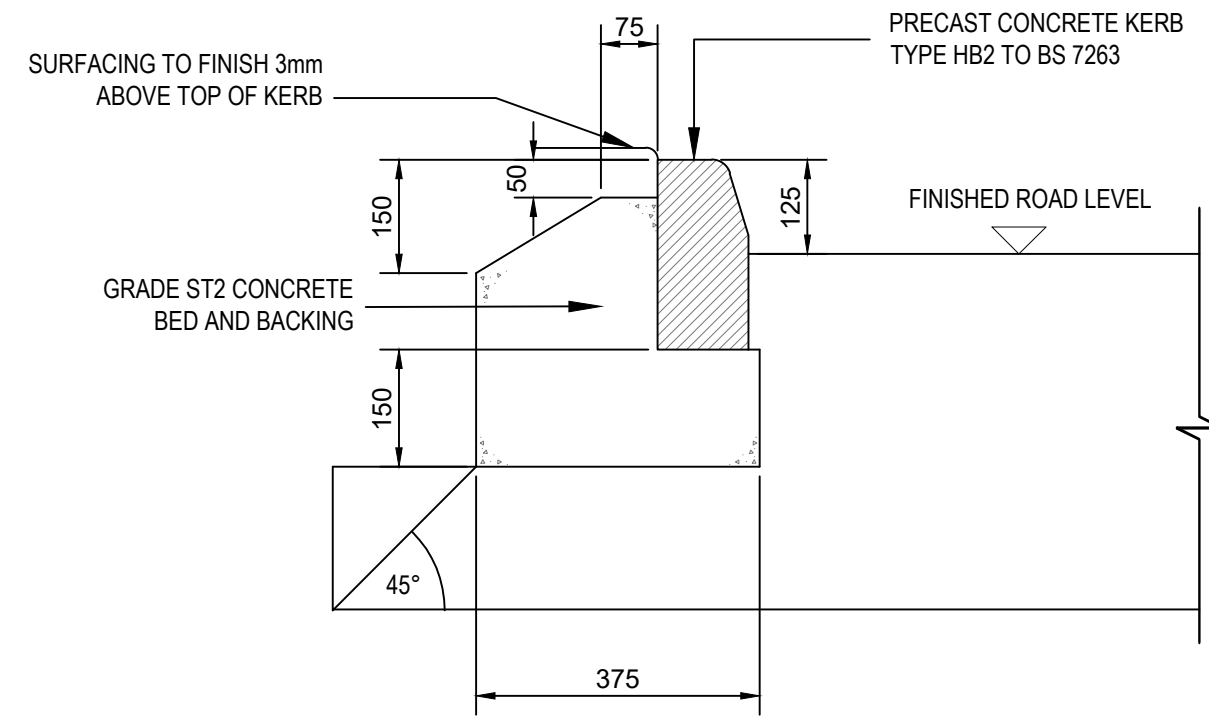
TARMACADAM FOOTWAY/ CYCLEWAY
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25



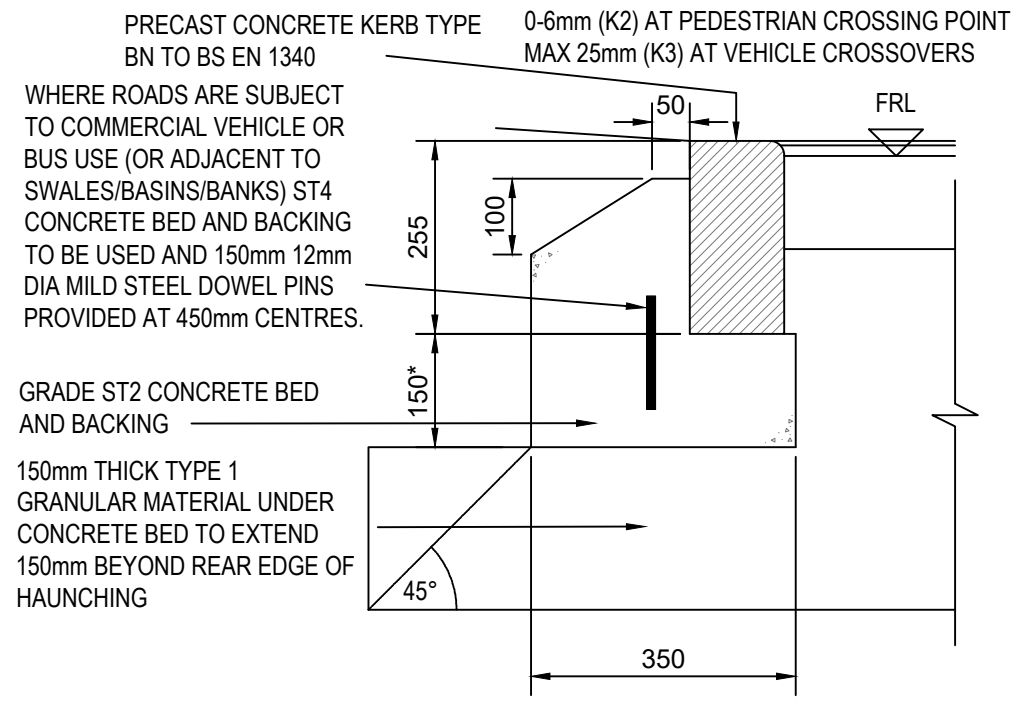
DOMESTIC VEHICLE CROSSING
SEE TABLE FOR CONSTRUCTION DETAILS
SCALE 1:25



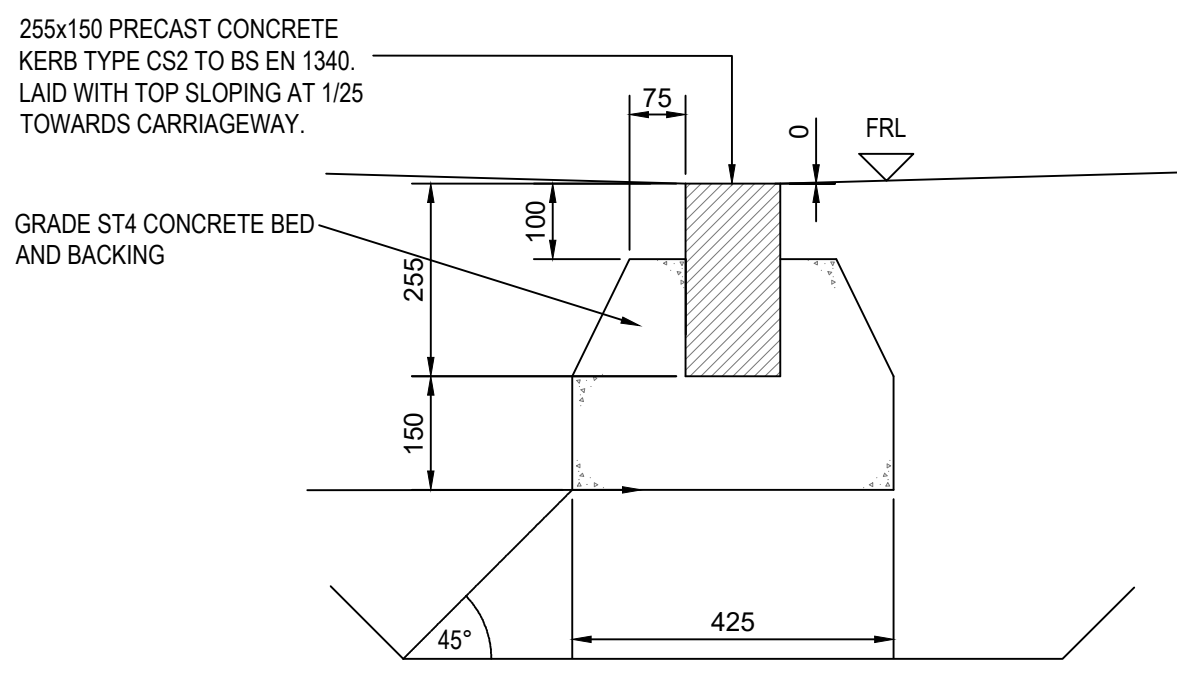
TACTILE PAVING PEDESTRIAN CROSSING
SCALE 1:25



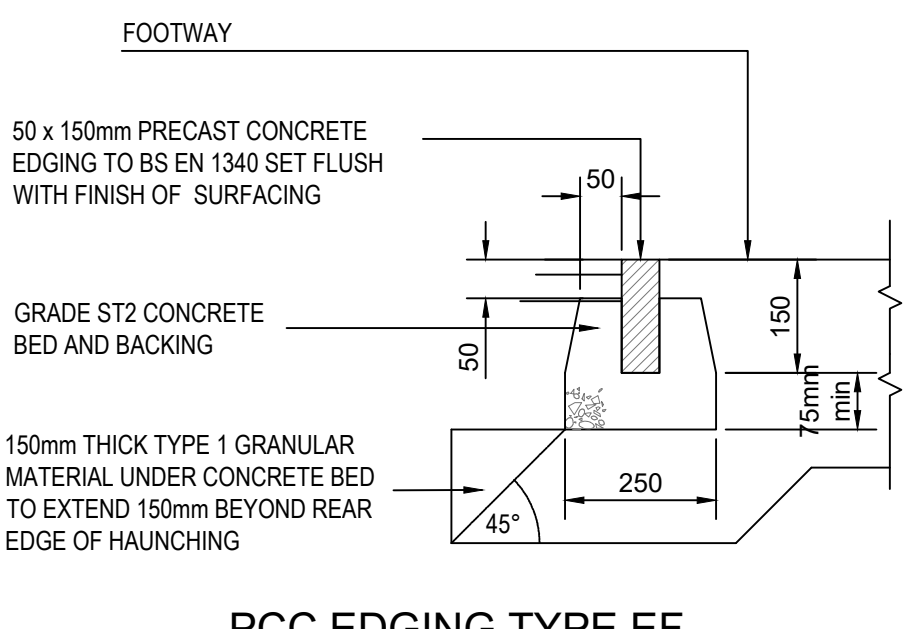
STANDARD KERB TYPE HB2
SCALE 1:10



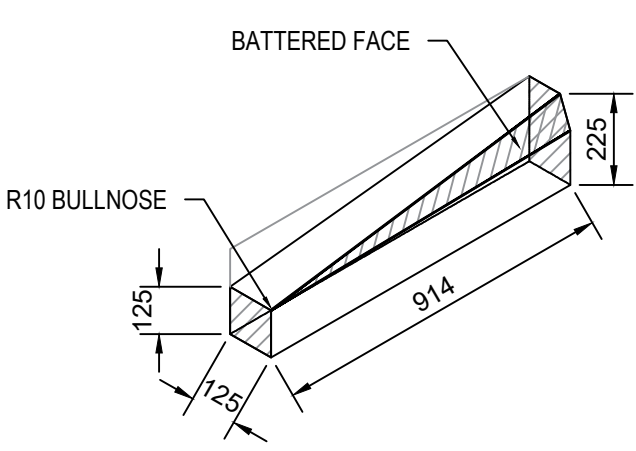
BULLNOSE KERB TYPE BN
SCALE 1:10



CHANNEL KERB CS2
SCALE 1:10



PCC EDGING TYPE EF
150mm DEEP
SCALE 1:10



HIGH BATTERED TO BULLNOSE
TRANSITION DROPPER KERB
SCALE NTS

TARMACADAM CARRIAGEWAY

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	HIGH STONE CONTENT HOT ROLLED ASPHALT (HRA) SURFACE COURSE COMPLYING WITH BS EN 13108-4 TABLE 4. 30/14F + PCC 14/20 HRA SURF, BINDER GRADE 40/60, MINIMUM PSV = 63, MAXIMUM AAV = 14.	40mm
BINDER	DENSE BITUMEN MACADAM (DBM) BINDER COURSE COMPLYING WITH BS EN 13108-1. AC20 DENSE BIN, BINDER GRADE 40/60.	60mm
BASE	DENSE BITUMEN MACADAM (DBM) BASE COMPLYING WITH BS EN 13108-1. AC32 DENSE BIN, BINDER GRADE 40/60.	130mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. THICKNESS TO BE DETERMINED FROM CBR VALUE MEASURED ONSITE. ALL TEST AND DECISIONS ON SUB-BASE REQUIREMENTS ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	320mm *
CAPPING	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL TO CLAUSE 613 OF SHW. REQUIREMENT AND THICKNESS DEPENDANT UPON CBR TESTING. ALL TESTS AND DECISIONS ON CAPPING REPLACEMENT ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	240mm *

THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 3% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

TARMACADAM FOOTWAY/CYCLEWAY CONSTRUCTION

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25mm
BINDER	CLOSE GRADED AC20, PEN 40/60.	75mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 2%. THICKNESS DEPENDANT UPON CBR TESTING.	CBR <2% - 225mm CBR >2.5% - 150mm

VEHICULAR CROSSOVER

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	CLOSE GRADED AC6, PEN 100/150.	25mm
BINDER	CLOSE GRADED AC20, PEN 40/60.	75mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. THICKNESS TO BE DETERMINED FROM CBR VALUE MEASURED ONSITE. ALL TEST AND DECISIONS ON SUB-BASE REQUIREMENTS ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	320mm *

THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

ALL FORMATIONS TO BE PROOF ROLLED IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE FORMATION SHALL THEN BE PROTECTED FROM THE WEATHER DURING THIS PERIOD.

TACTILE PAVING PEDESTRIAN CROSSING

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	400mm SQ x 50mm THICK BUFF COLOURED BLISTER FLAGS	50mm
LAYING	1:2 CEMENT / SAND BED	50mm
BINDER	THICK LEAN MIX CEMENT BOUND MATERIAL	150mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MINIMUM CBR OF 20%. THICKNESS DEPENDANT UPON CBR TESTING.	CBR <2% - 225mm CBR >2.5% - 150mm

BLOCK PAVED CARRIAGEWAY

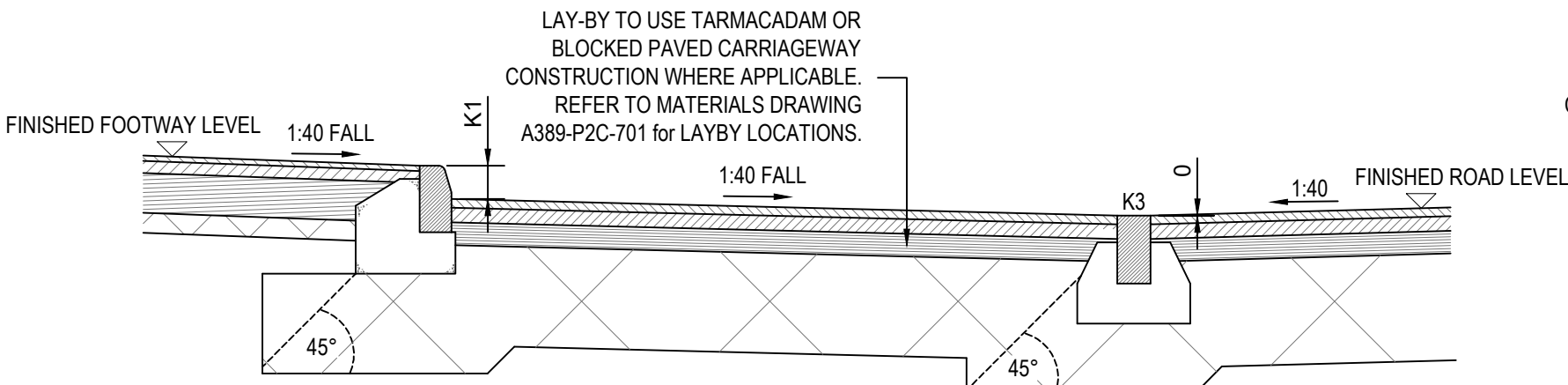
LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE	MARSHALLS KEYBLOK (200X100) CONCRETE PAVING LAID IN HERRINGBONE PATTERN. COLOUR: GREYS, 'CHARCOAL', REDS: 'BRINDLE' - SUBJECT TO CONTRAST WITH ADJACENT HIGHWAY AND HOUSES	80mm
LAYING	COURSE SHARP SAND. TO BE TREATED WITH APPROVED ACTIVE PRE AND POST EMERGENCE RESIDUAL WEED KILLER	50mm
BASE	CLOSE GRADED AC32 DENSE BIN, BINDER GRADE 40/60. COMPLYING WITH BS EN 13108-1	130mm
SUB BASE	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. THICKNESS TO BE DETERMINED FROM CBR VALUE MEASURED ONSITE. ALL TEST AND DECISIONS ON SUB-BASE REQUIREMENTS ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	240mm *
CAPPING	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL TO CLAUSE 613 OF SHW. REQUIREMENT AND THICKNESS DEPENDANT UPON CBR TESTING. ALL TESTS AND DECISIONS ON CAPPING REPLACEMENT ARE TO BE MADE BY THE HIGHWAY AUTHORITY.	210mm *

THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AT 20-30m INTERVALS AND RESULTS REPORTED TO THE HIGHWAY AUTHORITY/ENGINEER.

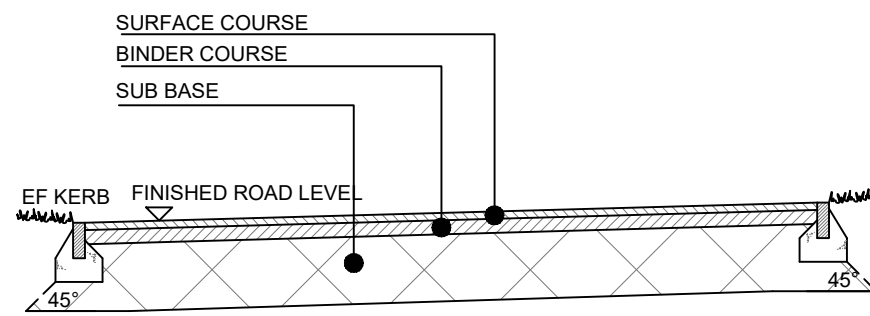
FOR CBR LESS THAN 2.5%, SUB BASE AND CAPPING TO BE REPLACED WITH THE DESIGN BELOW

SUB BASE*	TYPE 1 SUB-BASE MATERIAL TO CLAUSE 803, TABLE 8/2 OF SHW. MAXIMUM PARTICLE SIZE OF 90mm	230mm
CAPPING*	CLASS 6F1 OR 6F2 GRANULAR CAPPING MATERIAL TO CLAUSE 613 OF SHW. MAXIMUM PARTICLE SIZE OF 90mm	300mm
GEOGRID*	TENSAR InterAx A-90068-LA - LAID TO MANUFACTURERS INSTRUCTIONS AND REQUIREMENTS	N/A

SUB BASE, CAPPING AND GEOGRID TO BE IN ACCORDANCE WITH TENSAR DESIGN DOCUMENT 0-77241-A-90068-AS ISSUE 01



TYPICAL TARMACADAM PARKING SPACE
SEE TABLES FOR CONSTRUCTION DETAILS
SCALE 1:25



ALL THICKNESSES STATED ARE FINISHED COMPACTED THICKNESSES.

FOR FROST SUSCEPTIBLE SOILS MINIMUM CONSTRUCTION DEPTH IS 450MM. FOR CBR VALUES 3% AND GREATER CAPPING LAYER IS TO BE LAID BELOW THE SUB-BASE TO ACHIEVE THE OVERALL CONSTRUCTION DEPTH OF 450MM.

DBM, SUB-BASE AND CAPPING LAYERS SHOULD BE COMPACTED IN ACCORDANCE WITH DTP "SPECIFICATION FOR HIGHWAY WORKS".

THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AND RESULTS REPORTED TO THE ENGINEER.

SUB BASE THICKNESS TO BE INCREASED DEPENDANT UPON ACTUAL CBR VALUE AS FOLLOWS:

- CBR VALUE >6% 150mm SUB BASE
- CBR VALUE 5% - 3% 250mm SUB BASE
- CBR VALUE 3% - 2% 325mm SUB BASE
- CBR VALUE <=2% 300mm SUB BASE + GEOTEXTILE

ALLOTMENT ACCESS ROAD CONSTRUCTION

LAYER	SPECIFICATION	THICKNESS (mm)
SURFACE COURSE	DENSE MACADAM SURFACE COURSE, AC10 DENSE SURF, BINDER GRADE 100/150, TO BS EN 13108. MINIMUM PSV/55. BITUMINOUS SPRAY. BITUMEN EMULSION IN ACCORDANCE WITH BS 434, SPREAD RATE = 0.5 LITRES/M²	30mm
BINDER COURSE	DENSE MACADAM BINDER COURSE, AC20 DENSE BIN, BINDER GRADE 40/60, TO BS EN 13108. SEALING GRIT FOR BINDER COURSE, IF REQUIRED, SHALL BE BITUMEN PRE-COATED GRIT, NOT EXCEEDING 3MM NOMINAL SIZE.	80mm
SUB BASE	DTP TYPE 1 GRANULAR MATERIAL, TO SHW 803	150mm *

THE ABOVE DESIGN APPLIES WHERE THE FORMATION CBR 5% INSITU. CBR TEST TO BE CARRIED OUT BY THE CONTRACTOR AND RESULTS REPORTED TO THE ENGINEER.

SUB BASE THICKNESS TO BE INCREASED DEPENDANT UPON ACTUAL CBR VALUE AS FOLLOWS:

- CBR VALUE >6% 150mm SUB BASE
- CBR VALUE 5% - 3% 250mm SUB BASE
- CBR VALUE 3% - 2% 325mm SUB BASE
- CBR VALUE <=2% 300mm SUB BASE + GEOTEXTILE

ALL THICKNESSES STATED ARE FINISHED COMPACTED THICKNESSES.

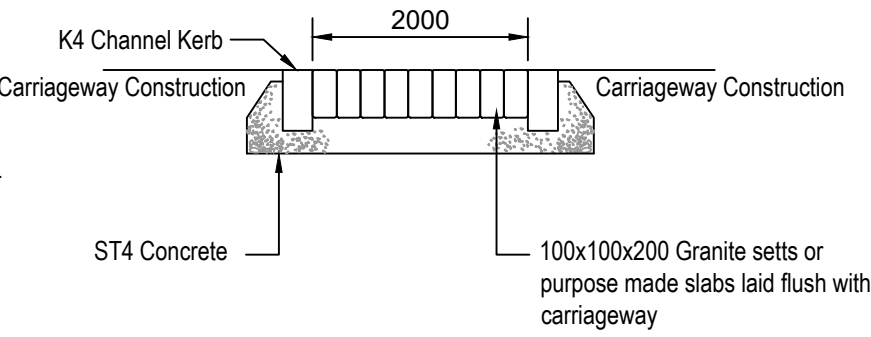
FOR FROST SUSCEPTIBLE SOILS MINIMUM CONSTRUCTION DEPTH IS 450MM. ADDITIONAL SUB-BASE LAYER IS TO BE LAID BELOW THE SUB-BASE TO ACHIEVE THE OVERALL CONSTRUCTION DEPTH OF 450MM.

BASE, SUB-BASE AND CAPPING LAYERS SHOULD BE COMPACTED IN ACCORDANCE WITH DTP "SPECIFICATION FOR HIGHWAY WORKS".

ALL FORMATIONS TO BE PROOF ROLLED IMMEDIATELY PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE FORMATION SHALL THEN BE PROTECTED FROM THE WEATHER DURING THIS PERIOD.

CBR	Subbase on Capping	Subbase only
	Subbase	Capping
≤2.5	Ground Stabilisation	Ground Stabilisation
2.6-2.9	250	420
3.0-3.9	230	280
4.0-4.9	220	330
5.0-5.9	200	250
6.0-9.9	180	240
10.0-11.9	150	200
12.0-14.9	150	180
≥15	150	150

Data in table has been derived from figures 3.18 and 3.20 of CD 225 Rev 1



TYPICAL RUMBLE STRIP DETAIL
NTS

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GENERAL NOTES:

- This drawing is to be read in conjunction with and checked against all other drawings, Engineering details, Specification and any structural, Geotechnical or other specialist document provided.
- Any anomaly or contradiction between any of the above is to be reported to the Engineer.
- WBC Highway Inspector to be present during inspections/ CBR testing.
- Gratings and frames shall be to BS EN124 1994. Ref. Class E600/D400 Trafficked areas. Ref. Class C250 footways only. Large gratings may only be used by the approval of the overseeing organisation.
- Dished gratings permissible in footways only.
- Dowel bars may be required with standard kerbs in circumstances where the kerbs are vulnerable
- Flags shall be bedded on 30 mortar to designation (ii) or (iii).
- The laying arrangement shown of tactile slabs are indicative only and shall be in accordance with Guidance on the use of Tactile Paving Surfacing DETR. When the dropped kerb is in direct line of travel the tactile surface shall be laid to a depth of 1200mm
- Crossing kerbs shall be flush with the carriageway where tactile flags are used.

Rev	Date	Description	Drawn	Checked
B	07.26	Detail for low CBR added	RF	RF
A	03.25	First Issue	JJS	RF

Abley Letchford

www.ableyletchford.co.uk

Client
KIER PROPERTY DEVELOPMENTS LIMITED

Project
SOUTH WOKINGHAM SDL PHASE 2B R11 RESERVED MATTERS APPLICATION

Title
HIGHWAY CONSTRUCTION DETAILS SHEET 1

Status

Scale	Date	Drawn	Checked
AS SHN @ A1	MARCH 2025	JJS	RF

Drawing No.	Revision
A389-R11-RM-711	B