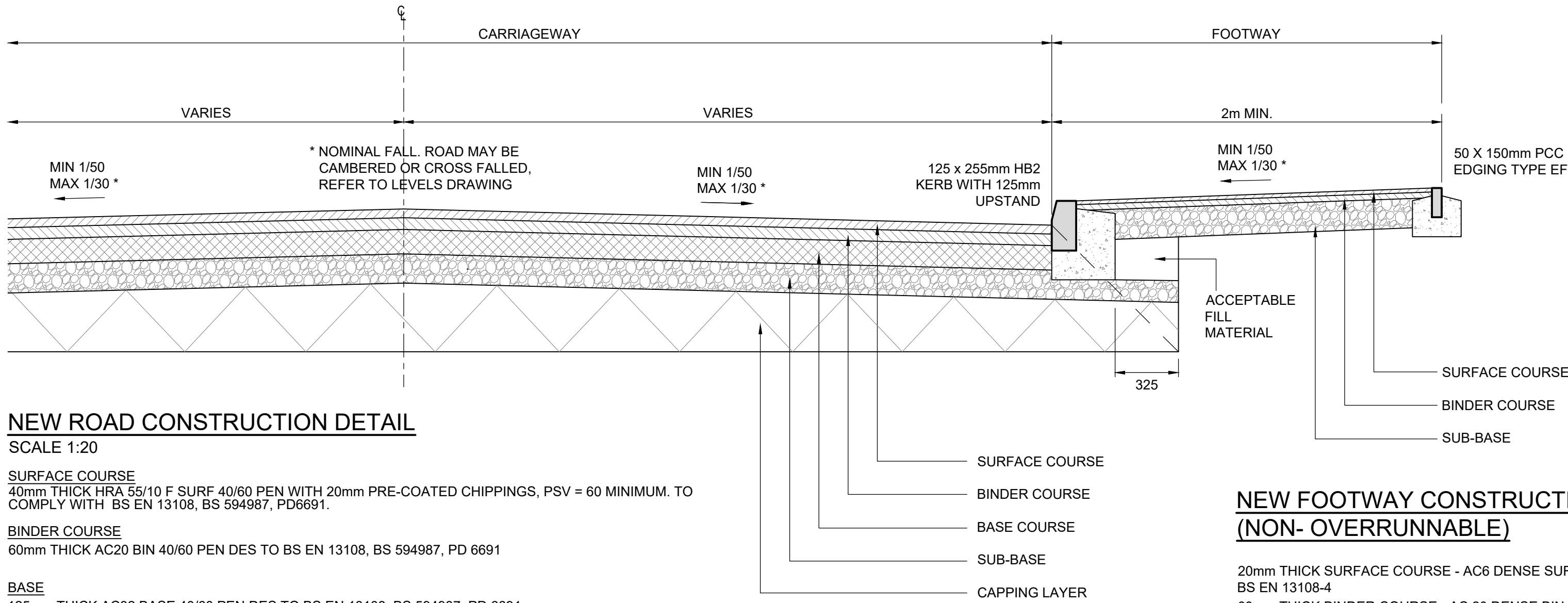




NEW ROAD CONSTRUCTION DETAIL

SCALE 1:20

SURFACE COURSE

40mm THICK HRA 55/10 F SURF 40/60 PEN WITH 20mm PRE-COATED CHIPPINGS, PSV = 60 MINIMUM. TO COMPLY WITH BS EN 13108, BS 594987, PD6691.

BINDER COURSE

60mm THICK AC20 BIN 40/60 PEN DES TO BS EN 13108, BS 594987, PD 6691

BASE

125mm THICK AC32 BASE 40/60 PEN DES TO BS EN 13108, BS 594987, PD 6691

SUB-BASE

350mm THICK UNBOUND TYPE 1 SUB-BASE TO MCHW CC 201

NOTE:

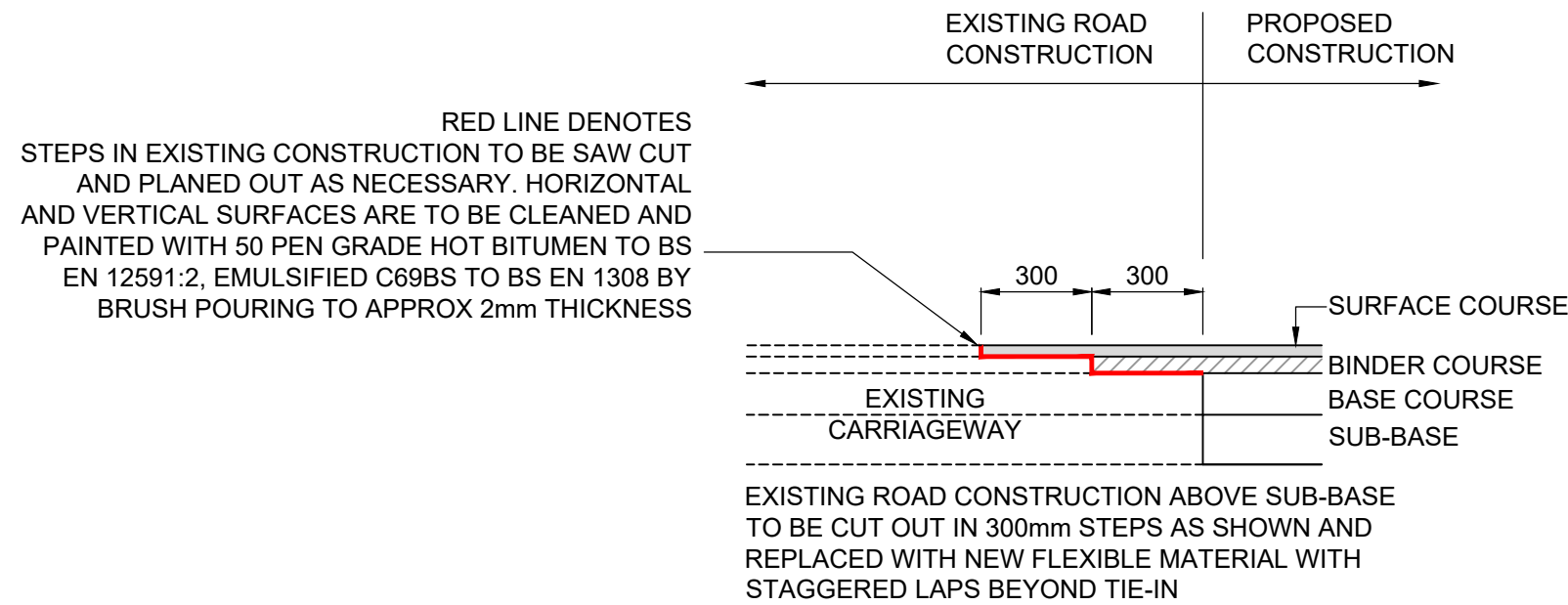
SUB-BASE MATERIAL MUST BE VERIFIED BY THE USE OF CBR TESTS AND MUST ACHIEVE A MINIMUM VALUE OF 30% PRIOR TO LAYING ANY ASPHALT / BITUMINOUS MATERIAL.

SUB-BASE DEPTH SPECIFIED ABOVE IS BASED ON AN ASSUMED FORMATION / SUB-GRADE CBR VALUE OF 2.5 - 5%.

ACCURATE FORMATION LEVEL CBR VALUES MUST BE ESTABLISHED IN ACCORDANCE WITH HIGHWAY AUTHORITY REQUIREMENTS AND SUB-BASE DEPTH AGREED WITH HERTFORDSHIRE COUNTY COUNCIL CLERK OF WORKS / SUPERVISING ENGINEER.

WHERE FORMATION CBR VALUES ARE LESS THAN 2.5% THE HERTFORDSHIRE COUNTY COUNCIL COUNCIL'S CLERK OF WORKS / SUPERVISING ENGINEER AND DESIGNER SHALL BE CONSULTED.

- EXISTING CARRIAGEWAY TO RECIEVE REGULATING / PAD COURSE AFTER SCARIFYING AS REQUIRED.
- AN HAPAS APPROVED / POLYMER MODIFIED BITUMEN EMULSION BOND COAT AND TANKER SHALL BE APPLIED BETWEEN ALL ASPHALT LAYERS
- ALL SURFACES MUST BE THOROUGHLY CLEAN AND DRY PRIOR TO APPLICATION OF PBM. EXISTING SURFACES ALSO SHOULD BE SWEEPED WITH A MECHANICAL BROOM TO ENSURE THAT THE SURFACE IS FREE OF DUST AND FOREIGN MATERIAL. THE BITUMEN EMULSION SHOULD BE APPLIED, PREFERABLY BY A CALIBRATED SPRAYING MACHINE.

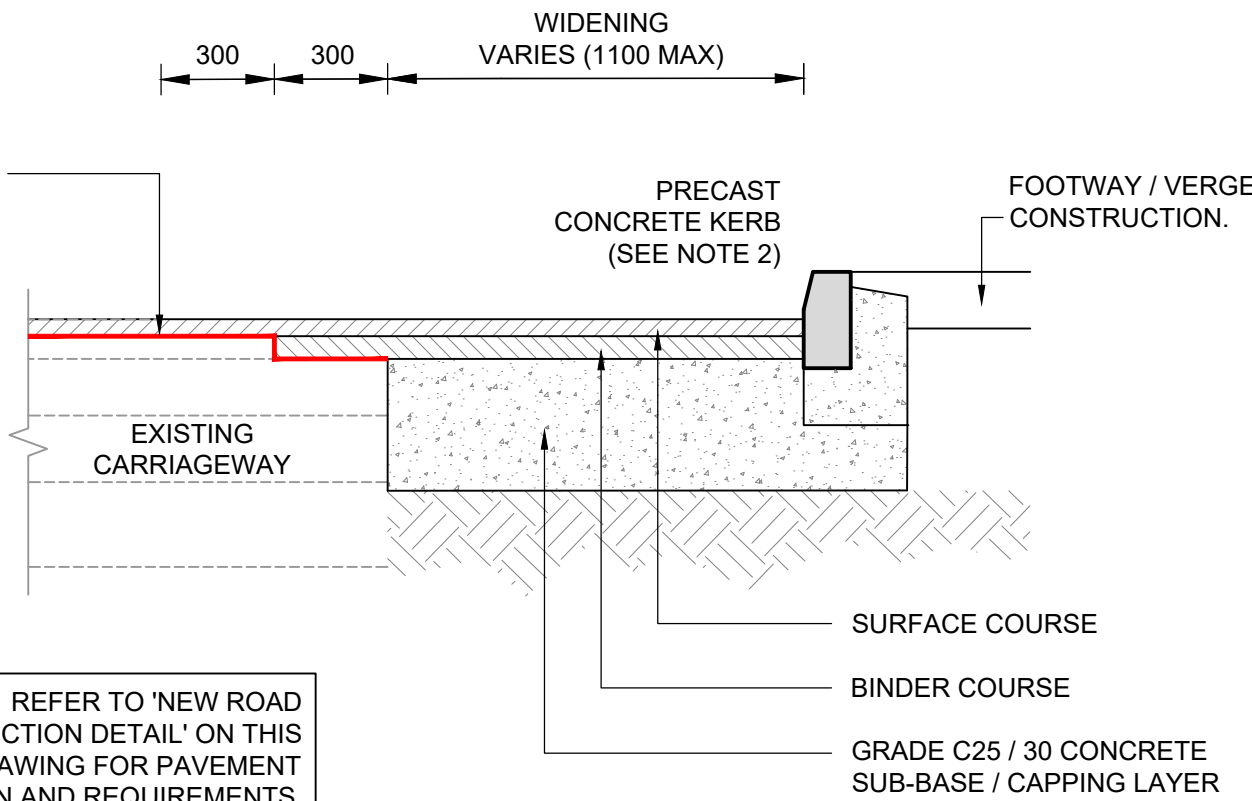


CONSTRUCTION TIE-IN DETAIL

(SITE ACCESS)

NOT TO SCALE

RED LINE DENOTES STEPS IN EXISTING CONSTRUCTION TO BE SAW CUT AND PLANED OUT AS NECESSARY. HORIZONTAL AND VERTICAL SURFACES ARE TO BE CLEANED AND SPRAYED WITH A BITUMINOUS MATERIAL COMPLYING WITH BS 594987. RATE OF SPRAY 0.51 l/m².



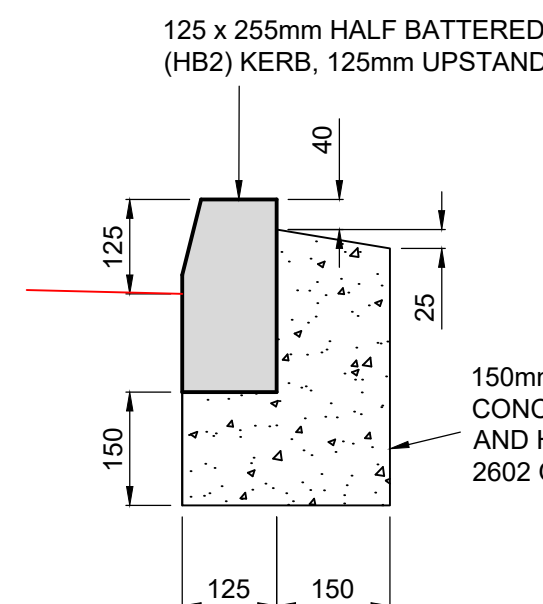
NEW ROAD CONSTRUCTION

NARROW WIDENING SPECIFICATION (WIDTH LESS THAN 1.1m)

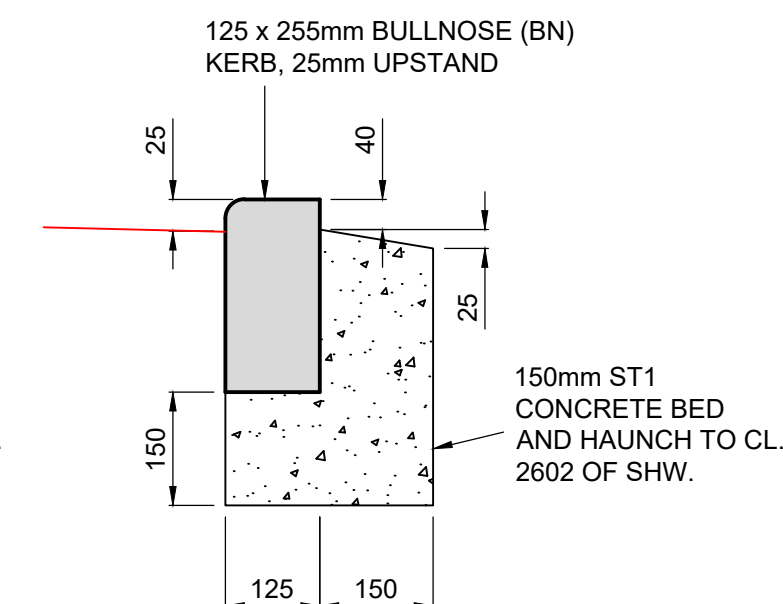
SCALE 1:20

NOTES

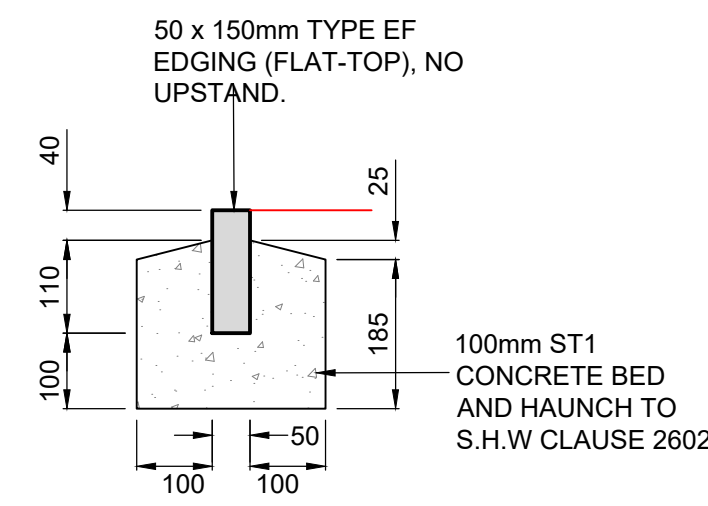
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH HST/1100/002.
- THE EDGE OF EXISTING CARRIAGEWAY TO BE CUT BACK 300mm TO SOUND FACE OR AS DIRECTED BY THE HIGHWAY AUTHORITY CLERK OF WORKS.
- ANY WORKS WILL ENSURE THAT SUB-SURFACE DRAINAGE PATHS REMAIN CONTIGUOUS BETWEEN EXISTING AND PROPOSED WORKS.
- A BITUMINOUS SPRAY SHALL BE APPLIED TO EXISTING PLANED AND IMPERVIOUS SURFACES WHERE DIRECTLY OVERLAID BY BITUMINOUS MATERIAL. RATE OF SPRAY 0.51 l/m².
- THE MINIMUM LAYING THICKNESS OF ASPHALT FOR ROADS AND OTHER PAVED AREAS SHOULD BE IN ACCORDANCE WITH BS 594987.
- LONGITUDINAL JOINTS IN THE SURFACE COURSE SHALL BE SAW CUT.
- TACK COAT OR BOND COAT TO BS 594987 SHALL BE APPLIED.
- UPPER SUB-BASE SHALL BE TYPE 1 UNBOUND MIXTURE TO MCHW CC 201 SECTION 8.
- JOINTS INTO SUB BASE OR CAPPING LAYER SHOULD BE MADE AS CLEAN MATERIAL.
- LONGITUDINAL SURFACE COURSE JOINTS SHOULD NORMALLY BE LOCATED AT THE CENTRE OF THE LANE OR AT THE LANE EDGE MARKING.
- CARE MUST BE TAKEN DURING COMPACTION OF ANY GRANULAR LAYERS TO ENSURE A SOUND JOINT BETWEEN THE TWO MATERIALS



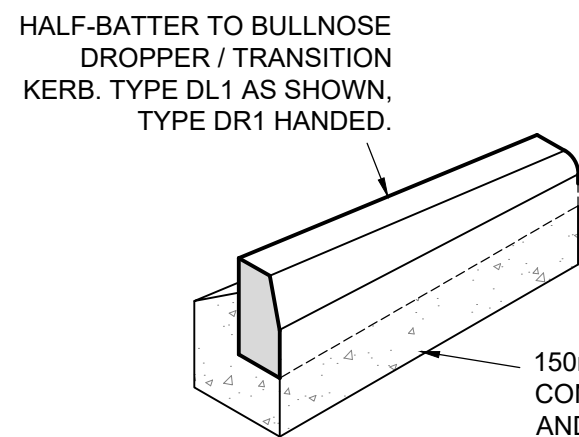
TYPE HB2



TYPE BN25

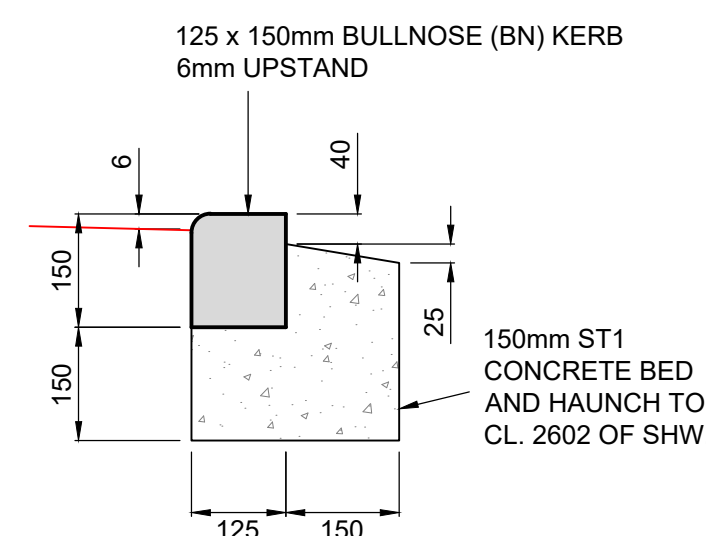


TYPE EF150
EDGING



TRANSITION KERB (TK)

(DL1/DR1)



TYPE BN

KERB & EDGING DETAILS

NOT TO SCALE

KERB NOTES

- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.
- ALL PRECAST CONCRETE KERBS AND EDGINGS SHALL BE LAID TO BS EN 1340. AND LAID TO BS 7533-6.
- ALL KERBS & EDGINGS BED AND BACKING OF CONCRETE CLASS SHALL BE GEN2.
- FOR CURVES GREATER THAN 12m AND LESS THAN 21m THE KERBS WILL EITHER BE THE EXACT RADIUS OR 600mm STRAIGHTS.
- THE KERB BED AND BACKING SHALL NORMALLY BE LAID IN ONE OPERATION.
- KERBS SHALL BE LAID WITH DRY JOINTS AND CLOSELY BUTTED TO ADJACENT KERBS AND CHANNEL.
- THE MINIMUM LENGTH OF ANY CUT KERB SHALL BE 450m.
- THE PRECAST CONCRETE TRANSITION KERB SHALL BE INSTALLED AT EACH CHANGE IN KERB TYPE, TIE-INS TO EXISTING AND AT TERMINATION.
- IN CLAUSE 1101, SUB-CLAUSE 1, KERBS MAY BE LAID AND BEDDED ON MORTAR IN ACCORDANCE WITH CLAUSE 2601. THE TYPE OF MORTAR SHALL BE APPROVED BY THE OVERSEEING ORGANIZATION.
- ON NEW CONSTRUCTION THE MINIMUM DEPTH OF CONCRETE UNDER THE KERB SHALL BE 150mm. ON CONSTRUCTION WHERE THE COMBINED THICKNESS OF SURFACE COURSE, BINDER COURSE AND BASE EXCEEDS 280mm THE CONCRETE DEPTH SHALL BE INCREASED TO COMPENSATE.
- CARRIAGEWAY SUB-BASE SHALL BE CONTINUED BEYOND BACK OF KERB CONSTRUCTION FOR A DISTANCE OF 325mm



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Drawing Status & Suitability Code
FOR REVIEW & COMMENT S3

Designed IW	Drawn IW	Checked NM	Authorised NM
Date 10.02.2026	Date 10.02.2026	Date 10.02.2026	Date 10.02.2026

Drawing Number
010123-SLR-HGN-XXX-DR-CH-0130

Client
Vistry Group

Project
SECTION 278 HIGHWAY WORKS
NEWMARKET ROAD, ROYSTON

Drawing Title
CONSTRUCTION DETAILS
SHEET 1

Scale
AS SHOWN @ A1

SLR Project No.
432.010123.00001

P01	FIRST ISSUE	10.02.26	IW	NM	NM
Rev	Amendments	Date	By	Chk	Auth

Rev	Amendments	Date	By	Chk	Auth
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KEY:

AWAITING TECHNICAL
APPROVAL

This drawing has NOT been technically approved by
Local Authority and/or Water Authority.
All works subject to change through technical review
process with relevant approving authorities.

0 0.2 0.4 0.8 1.2
1:20 SCALE (m)

SAFETY, HEALTH AND
ENVIRONMENTAL INFORMATION

PLEASE REFER TO THE HEALTH AND SAFETY FILE FOR A FULL LIST OF THE HAZARDS ASSOCIATED WITH THIS WORK - THE FOLLOWING ARE THE MOST SIGNIFICANT ITEMS TO BE AWARE OF.

CONSTRUCTION

- ATTENTION IS DRAWN TO THE EXISTENCE OF BOTH EXISTING UNDERGROUND AND OVERHEAD UTILITIES.
- WORKING ADJACENT TO LIVE CARRIAGEWAY (RISK OF WORKFORCE AND CONSTRUCTION PLANT CONFLICT WITH THE PUBLIC).
- WORKING AT HEIGHTS INSTALLING SIGN PLATES.
- WORKING IN CLOSE PROXIMITY TO LIVE SERVICES AND POSSIBLE UNCHARTED SERVICES.
- WORKING IN THE VICINITY OF OVERHEAD POWER CABLES.
- EXCAVATION WITHIN POSSIBLE CONTAMINATED GROUND.
- WORKING WITH HAZARDOUS SUBSTANCE, SUCH AS BITUMINOUS MATERIALS, MORTARS, CONCRETE ETC.
- MANUAL HANDLING OF HEAVY LOADS SUCH AS KERBS AND PAVING MATERIALS
- DUST AND DEBRIS ARISING FROM THE CUTTING OF MATERIALS

ENVIRONMENTAL

- CONSIDERATION GIVEN TO NOISE LEVELS GIVEN PROXIMITY TO EXISTING PROPERTIES.
- CONSIDERATION GIVEN TO GROUND CONDITIONS, CONTRACTOR TO REVIEW GEOTECHNICAL INFORMATION PRIOR TO UNDERTAKEN EXCAVATION WORKS.

WORK CAN ONLY BE CARRIED OUT BY SUITABLY TRAINED AND BRIEFED PERSONNEL.