

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION
 NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR WHEN DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

CONSTRUCTION RISKS:

- EXCAVATIONS
- EXISTING SERVICES
- OVERHEAD SERVICES
- WORKING ADJACENT TO HIGHWAY

MAINTENANCE/CLEANING/IN USE RISKS:

- NO SIGNIFICANT RISKS.

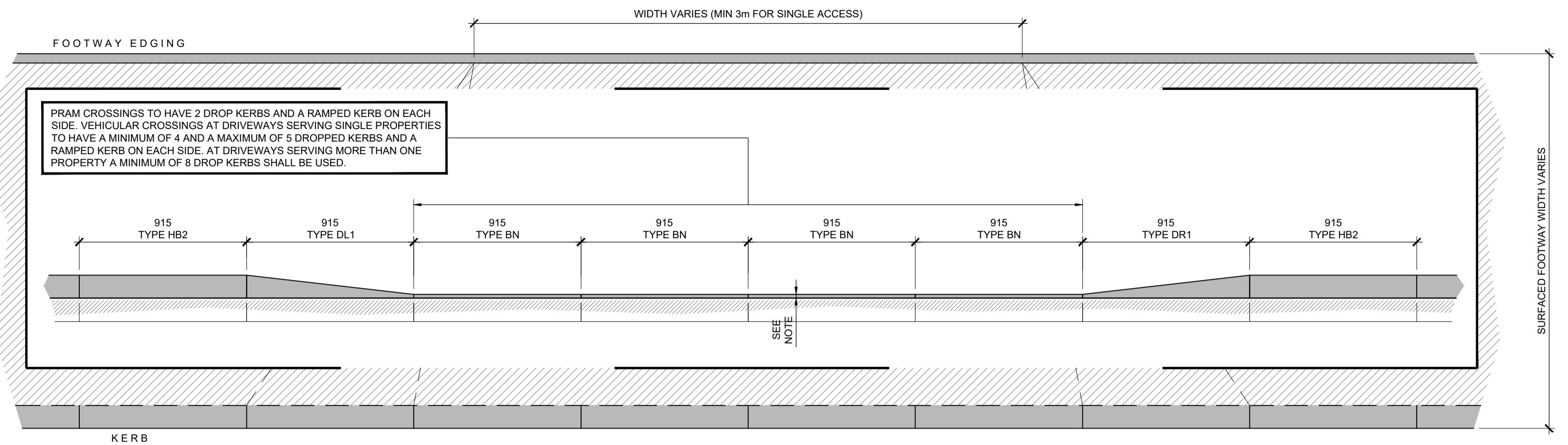
DEMOLITION RISKS:

- NO SIGNIFICANT RISKS.

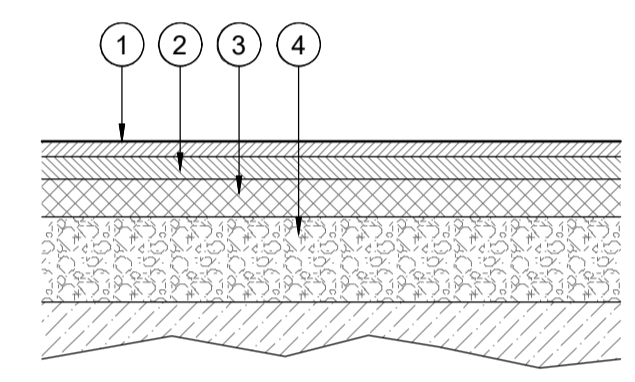
NOTE:

- DO NOT SCALE, IF IN DOUBT ASK.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL ENGINEER'S DRAWINGS AND DETAILS, THE SPECIFICATION FOR THE WORKS, THE RELEVANT ARCHITECT'S DRAWINGS AND ANY OTHER SPECIALIST'S DRAWINGS.
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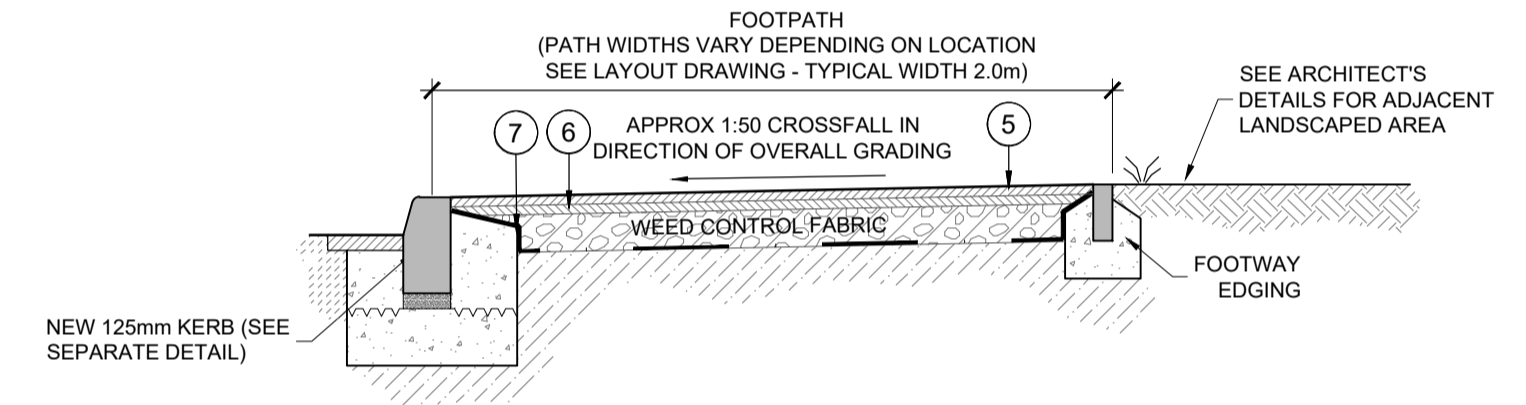
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TYPICAL DROP KERB DETAIL AT VEHICULAR AND PRAM CROSSINGS ON FOOTWAYS
 1:20



TYPICAL CROSS SECTION AND CONSTRUCTION DETAIL FOR NEW CARRIAGEWAY IN SITE ACCESS BELMOUTH
 1:20

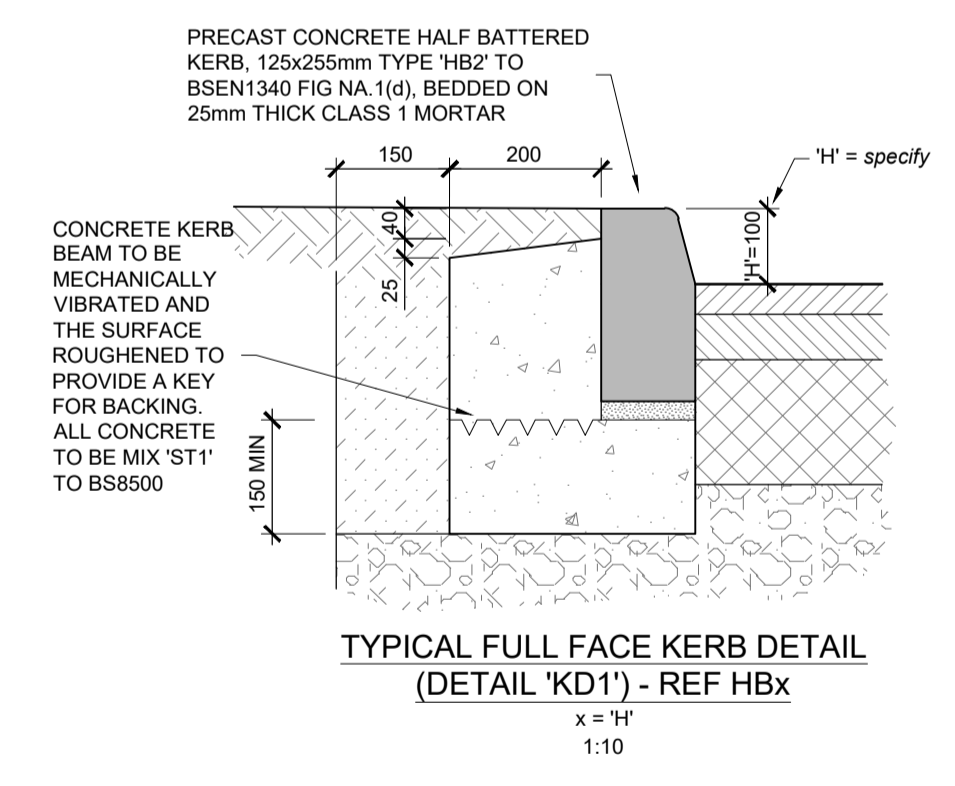


TYPICAL CONSTRUCTION DETAIL FOR BITUMINOUS FOOTPATHS

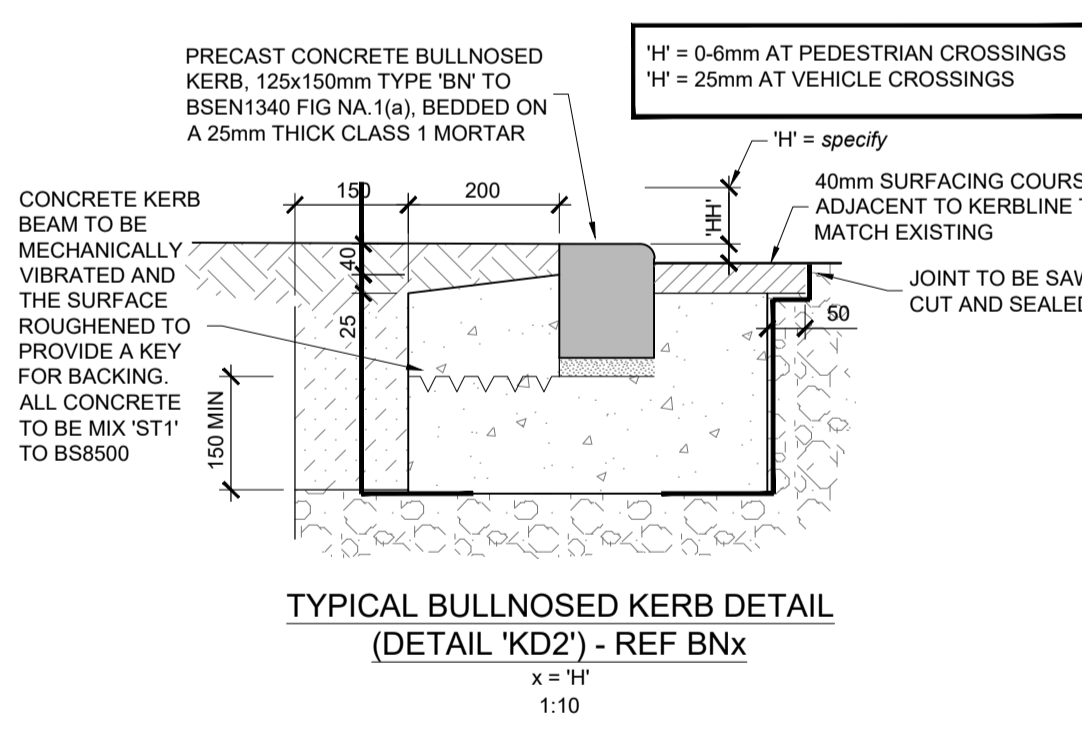
ROAD CONSTRUCTION SPECIFICATION			
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)
CARRIAGEWAY	1	HRA 30/14F SURF 40/60 REC HOT ROLLED ASPHALT SURFACE COURSE TO CLAUSE 4.6.8 ^(1B) , BSEN13108-4 AND PD6691:2015, TABLE C2A COL 8, TYPE F RECIPE MIX CONTAINING 30% COARSE AGGREGATE OF CRUSHED ROCK EXCLUDING LIMESTONE WITH A MAXIMUM AGGREGATE SIZE OF 14mm AND A MINIMUM PSV OF 55. A TYPE F FINE AGGREGATE OF CRUSHED ROCK AND A 40/60 PENETRATION GRADE BITUMEN BINDER. SURFACE TO HAVE PRE-COATED CHIPPINGS OF 20mm NOM SIZE, WITH A MIN PSV OF 55 AND AAV OF 14.	40
	2	AC 20 DENSE BIN 40/60 REC DENSE 20mm ASPHALT CONCRETE BINDER COURSE TO BSEN13108-1 AND PD6691:2015, TABLE B11.	60
	3	AC 32 DENSE BASE 40/60 REC DENSE 32mm ASPHALT CONCRETE BASE COURSE TO BSEN13108-1 AND PD6691:2015, TABLE B11, LAID AND COMPACTED IN TWO LAYERS.	165
	4	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 4.6.3 ^(1B) . FOR SUB-GRADE CBR VALUES OF LESS THAN 15% AN ADDITIONAL CAPPING LAYER IS REQUIRED (SEE NOTES).	MIN 200
FOOTWAY	5	AC 6 DENSE BIN 100/150 or HRA 15/10F 25mm AC6 (ASPHALT CONCRETE) DENSE SURFACE COURSE 100/150 TO BS EN 13108-1 or 30mm HRA (HOT ROLLED ASPHALT) 15/10 F SURFACE COURSE 100/150 TO BS EN 13108-4	25/30
	6	AC 10 DENSE BIN 100/150 AC10 DENSE BINDER COURSE 100/150 TO BS EN 13108-1	100
VERGE	7	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 4.6.3 ^(1B) . FOR SUB-GRADE CBR VALUES OF LESS THAN 5% TYPE 1 SUB-BASE MATERIAL TO BE INCREASED TO 255mm THICK.	150/225
	8	FERTILE MEDIUM LOAM TOPSOIL COMPLYING WITH BS3882, FREE FROM PERENNIAL WEEDS, WEED SEEDS, CONTAMINATION, RUBBLE, SUBSOIL AND STONES LARGER THAN 50mm. MAXIMUM STONE CONTENT TO BE 20%. TOPSOIL TO BE ROLLED AND AN APPROVED PRE-SEEDING FERTILISER APPLIED AT THE RATE OF 50g/m ² IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND TURFED. WHERE APPROVED BY THE COUNTY COUNCIL GRASS SEED TO CLAUSE 4.13.8 ^(1B) MAY BE USED INSTEAD OF TURF.	150
GENERAL FILL			AS REQUIRED

NOTES:

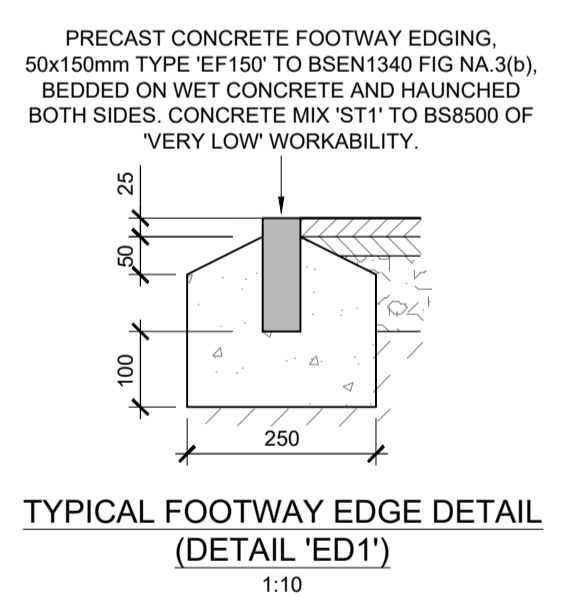
- SPECIFICATION FOR HIGHWAY WORKS PUBLISHED BY THE DEPARTMENT FOR TRANSPORT.
- ESSEX COUNTY COUNCIL'S "DEVELOPMENT CONSTRUCTION MANUAL" (UPDATED DCM 2 NOV 2018).
- MINIMUM DEPTH OF NON FROST SUSCEPTIBLE MATERIAL IS 450mm FOR ROAD PAVEMENTS.
- THE MINIMUM PSV AND AAV FOR SURFACE COURSES WITH AND WITHOUT PRE-COATED CHIPPINGS FOR ESTATE ROADS IS AS DESCRIBED IN CLAUSE 4.51^(1B).
- WHERE THE CBR OF THE FORMATION IS <15% A CAPPING LAYER OF THICKNESS DETERMINED IN ACCORDANCE WITH IAN 7306 SHALL BE USED TO ACHIEVE A MINIMUM CBR OF 15% FOR THE FORMATION. WITH THE APPROVAL OF THE COUNTY COUNCIL THE CAPPING AND SUB-BASE THICKNESSES CAN BE REDUCED IF COMBINED WITH A DESIGNATED GEOSYNTHETIC MATERIAL. FOR CBR VALUES LESS THAN 2.5% SPECIAL ENGINEERING CONSIDERATION WILL BE REQUIRED.
- THE AVERAGE TEXTURE DEPTH FOR BITUMINOUS SURFACING SHALL BE EQUAL TO OR MORE THAN 1mm AND NOT MORE THAN 1.2mm.
- FOR ALL BITUMINOUS MATERIALS, TRANSPORTATION, LAYING, COMPACTION AND TYPE TESTING PROTOCOLS SHALL CONFORM TO BS594987.
- WHERE AGREED IN WRITING WITH THE HIGHWAY AUTHORITY, RECLAIMED ASPHALT MAY BE USED IN ACCORDANCE WITH BSEN13108 AND CLAUSES 902^(1A) AND 948^(1A). FOR ADDITIONAL GUIDANCE REFER TO PD6691.
- BITUMEN GRADES TO COMPLY WITH EN12591 WHICH REPLACES BS3690. NEW GRADES OF 40/60, 100/150 AND 160/220 PEN REPLACES THE FORMER BS GRADES OF 50, 100 AND 200 PEN.



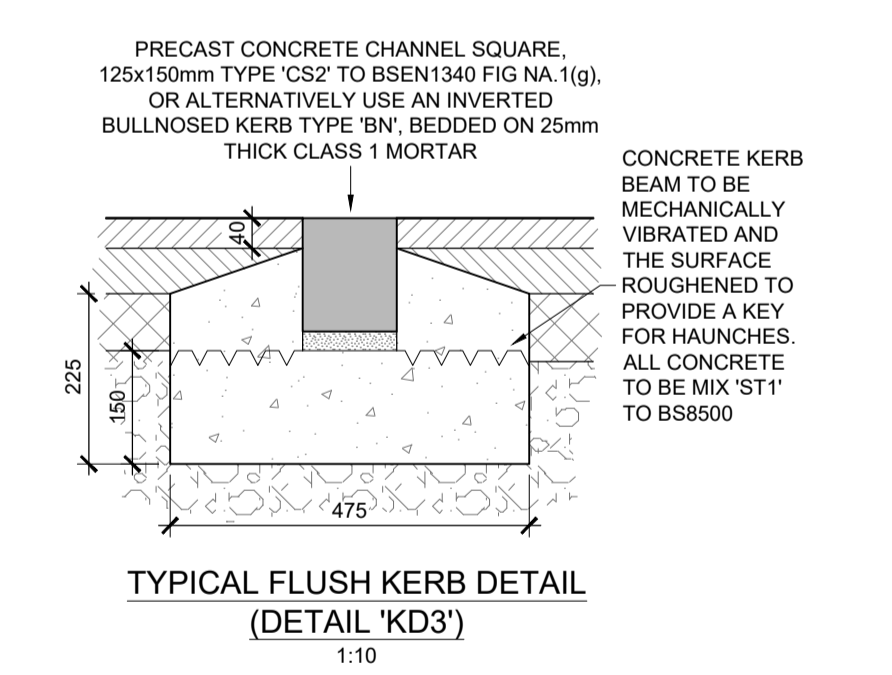
TYPICAL FULL FACE KERB DETAIL (DETAIL 'KD1') - REF HBx
 1:10



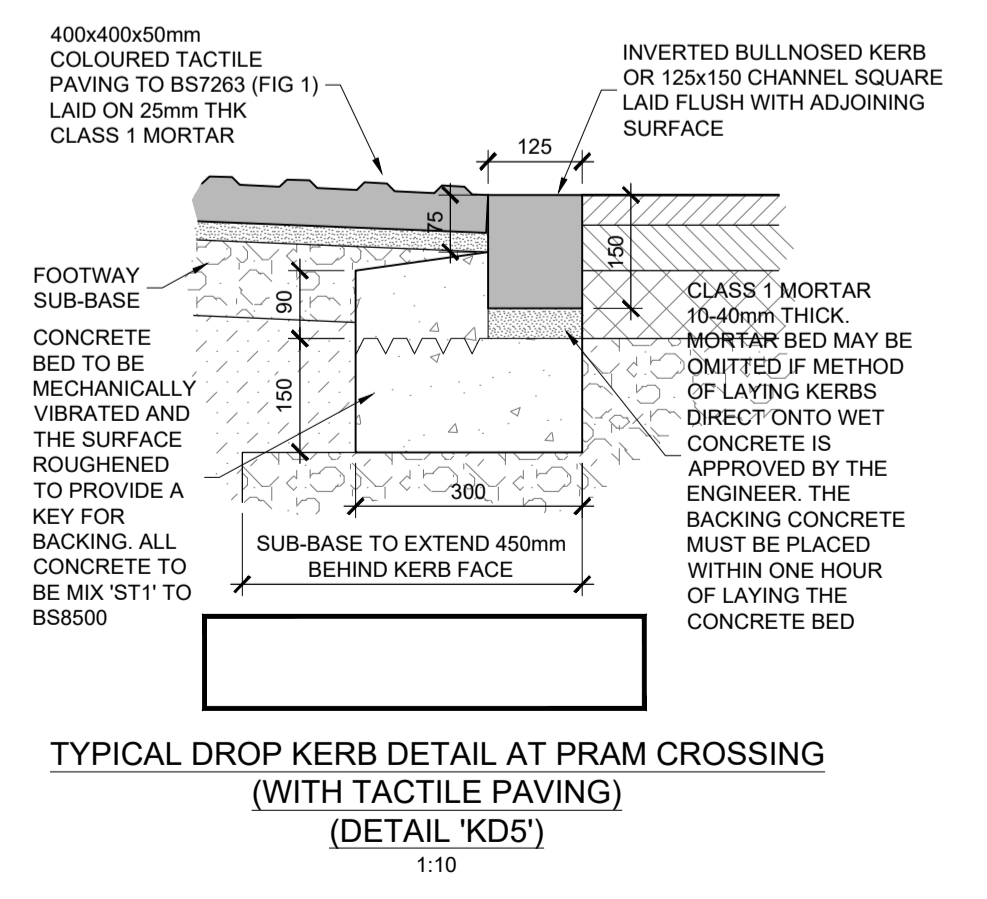
TYPICAL BULLNOSED KERB DETAIL (DETAIL 'KD2') - REF BNx
 1:10



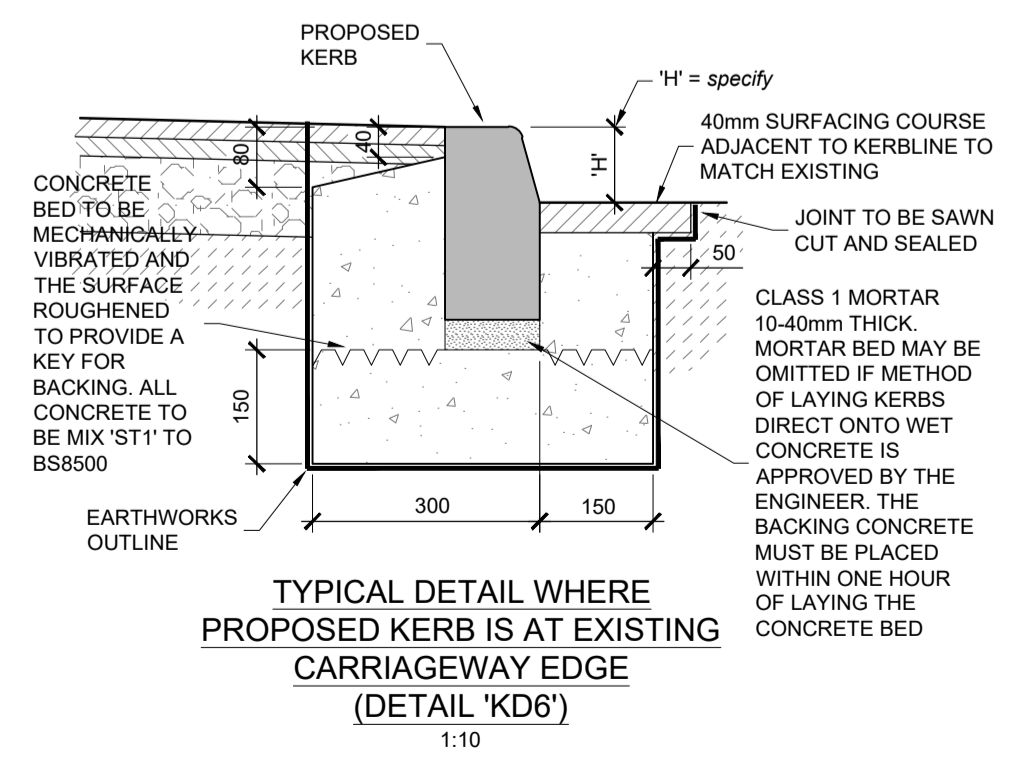
TYPICAL FOOTWAY EDGE DETAIL (DETAIL 'ED1')
 1:10



TYPICAL FLUSH KERB DETAIL (DETAIL 'KD3')
 1:10



TYPICAL DROP KERB DETAIL AT PRAM CROSSING (WITH TACTILE PAVING) (DETAIL 'KD5')
 1:10



TYPICAL DETAIL WHERE PROPOSED KERB IS AT EXISTING CARRIAGEWAY EDGE (DETAIL 'KD6')
 1:10

PRELIMINARY DRAWING:
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P01	PRELIMINARY ISSUE	NH	EF	NH
REV	DESCRIPTION	DATE	BY	AUTH

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TITLE
 S278 HIGHWAY DETAILS
 SHEET 1

DRAWN	AUTHORISED	DATE	SCALE AT A1
EF	NH	DEC 23	REFER TO DRAWING
SUITABILITY S0 - WORK IN PROGRESS			
PROJECT NO.	DRAWING FIELDS	DRAWING NO.	REV
201322		C-400	P01