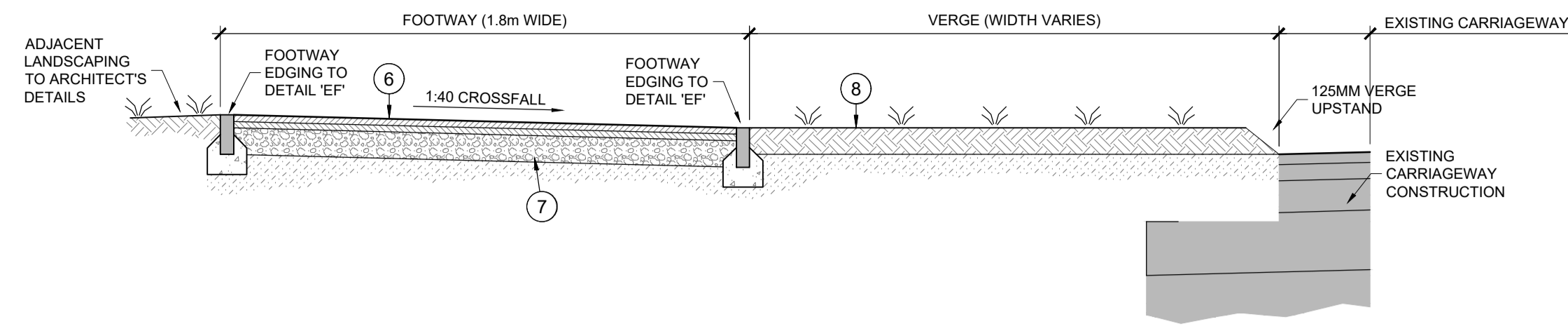


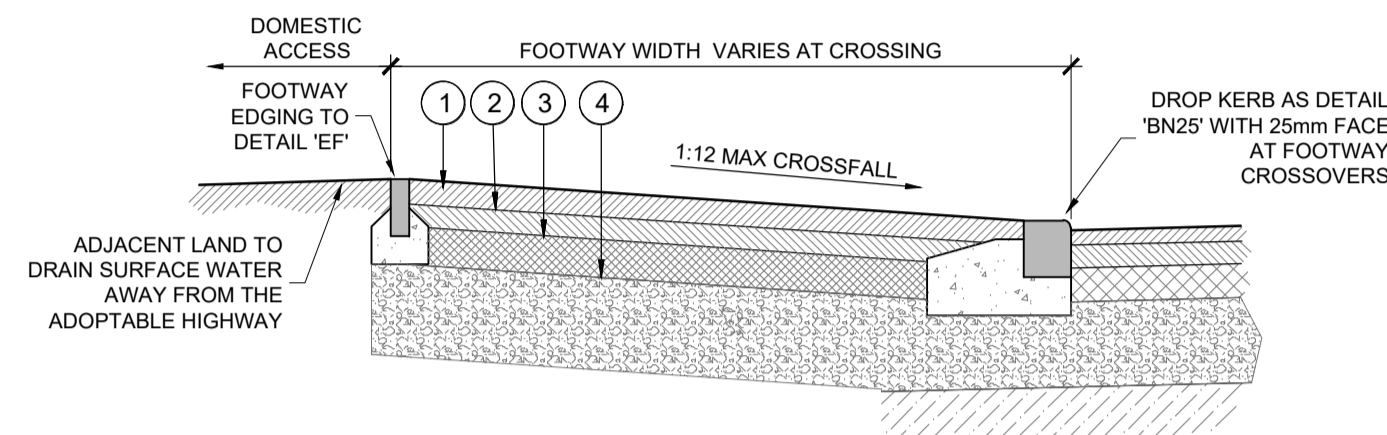
ROAD CONSTRUCTION SPECIFICATION				
	LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)	
CARRIAGEWAY AND OVERRUN MARGIN	1	HRA 30/14 F SURF 40/60 HOT ROLLED ASPHALT SURFACE COURSE TO PD6691:2015, TABLE C2A COL. 8, TYPE F DESIGN MIX CONTAINING 30% COARSE AGGREGATE OF CRUSHED ROCK WITH A MAXIMUM AGGREGATE SIZE OF 14mm. 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 45, ROLLED IN TO GIVE A TEXTURE DEPTH OF 1.2mm (MEASURED BY SAND PATCH METHOD). CHANNEL BOARDS TO BE USED TO GIVE A CHIPPING FREE CHANNEL. NOTE: OVERRUN MARGINS TO HAVE RED COLOURED AGGREGATE ROLLED IN TO GIVE A CONTRASTING SURFACE FINISH.	40	
	2	HRA 50/20 BIN 40/60 HOT ROLLED ASPHALT BINDER COURSE TO PD6691:2015, TABLE C1, MIX CONTAINING 50% AGGREGATE WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A 40/60 PENETRATION GRADE BITUMEN BINDER.	60	
	3	HRA 60/32 BASE 40/60 HOT ROLLED ASPHALT TO PD6691:2015, TABLE C1, MIX CONTAINING 60% AGGREGATE WITH A MAXIMUM AGGREGATE SIZE OF 32mm AND A 40/60 PENETRATION GRADE BINDER.	100	
	4	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 803 <sup>(1)</sup> CERTIFIED AS NON-FROST SUSCEPTIBLE, SPREAD EVENLY ON THE FORMATION IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. COMPACTION TO CLAUSE 802 <sup>(1)</sup> TO ACHIEVE A MINIMUM CBR VALUE OF 20%.	CBR <sup>(2)(3)(4)</sup> 10% 245	
	5	CLASS 6F1 OR 6F2 CAPPING MATERIAL TO TABLE 61 <sup>(1)</sup> AND CLAUSE 613 <sup>(1)</sup> COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 64 <sup>(1)</sup> .	SEE NOTE 4	
FOOTWAY	6	HRA 15/10 F SURF 40/60 HOT ROLLED ASPHALT TO PD6691:2015, TABLE C2B COL. 3, TYPE F RECIPE MIX CONTAINING 15% AGGREGATE OF CRUSHED ROCK WITH A MAXIMUM AGGREGATE SIZE OF 10mm. A TYPE F FINE AGGREGATE OF CRUSHED ROCK AND A 40/60 PENETRATION GRADE BITUMEN BINDER.	TWO LAYER COURSE 2 x 25	
	7	GRANULAR SUB-BASE TYPE 1 TO CLAUSE 803 <sup>(1)</sup> CERTIFIED AS NON-FROST SUSCEPTIBLE, SPREAD EVENLY ON THE FORMATION THAT HAS BEEN SHAPED AND PREPARED TO CLAUSE 616 <sup>(1)</sup> AND TREATED WITH A GRANULAR WEED KILLER OF THE PRE-EMERGENT TYPE APPROVED BY NORFOLK COUNTY COUNCIL. SUB-BASE TO BE COMPACTED TO CLAUSE 802 <sup>(1)</sup> .	100 THICKENED TO 150mm AT VEHICULAR CROSSOVERS	
VERGE	8	GRASSED AREAS SHALL BE GRADED TO THE APPROVED LEVEL. SPREAD WITH A MINIMUM DEPTH OF 100mm OF VEGETABLE SOIL AND EITHER TURFED OR CULTIVATED AND SOWN AT THE APPROPRIATE SEASON WITH APPROVED GRASS SEED AT A RATE OF 0.034kg/m <sup>2</sup> . THE FINISHED VERGE SHALL BE LEVEL WITH THE ADJACENT FOOTWAY AND KERBS AND SHALL HAVE A MINIMUM WIDTH OF NOT LESS THAN 1m.	MIN 100	
GENERAL FILL			CLASS 1 GRANULAR FILL MATERIAL TO TABLE 61 <sup>(1)</sup> AND CLAUSE 613 <sup>(1)</sup> COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 64 <sup>(1)</sup> .	AS REQUIRED

NOTES:

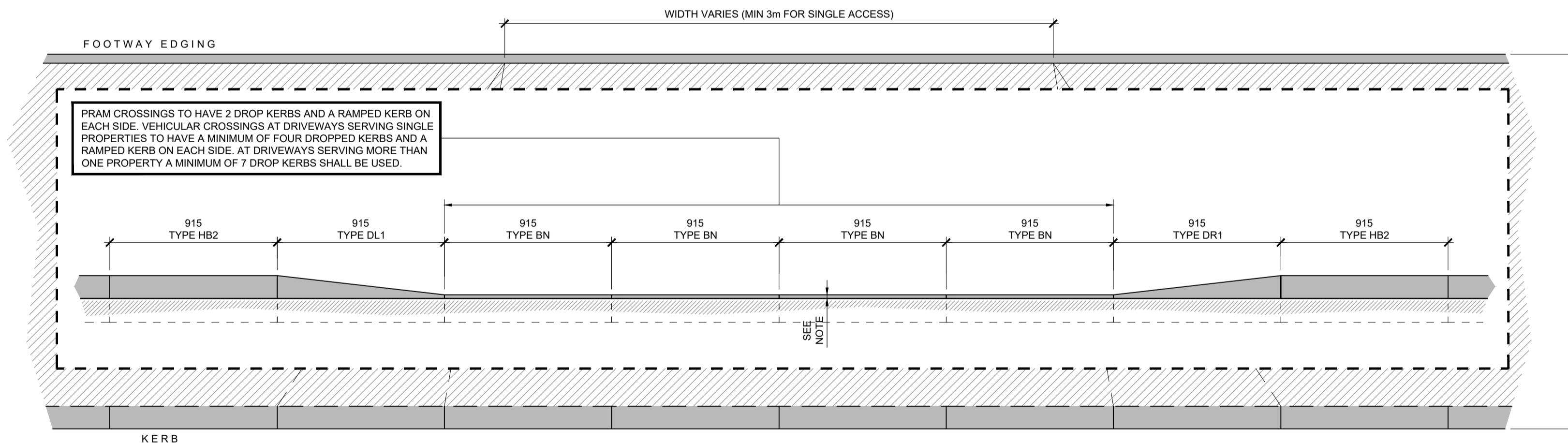
- SPECIFICATION FOR HIGHWAY WORKS PUBLISHED BY THE DEPARTMENT FOR TRANSPORT.
- CONSTRUCTION THICKNESS FOR PROVEN ALTERNATIVE SUB-GRADE CBR VALUES.
- WHERE CBR VALUE IS LESS THAN 2.5% SPECIAL ENGINEERING CONSIDERATIONS WILL BE REQUIRED.
- SUB-BASE TO BE THICKENED OR CAPPING LAYER TO BE USED TO GIVE A TOTAL CONSTRUCTION DEPTH OF CARRIAGEWAY OF 450mm WHERE SUB-GRADE IS FROST SUSCEPTIBLE.
- SUB-GRADE TO BE THICKENED TO 150mm UNDER VEHICULAR CROSSINGS.
- 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.
- CAPPING TO BE USED WHERE CBR IS LESS THAN 2.5% OR A TENSAR 'TRIAx' GEOTRID TO BE USED (SUBJECT TO APPROVED DESIGN).
- APPLY BOND COAT TO BS594987 TO ALL BOUND LAYERS.
- THE SUB-BASE DESIGN FOR THIS PROJECT IS BASED ON A CBR VALUE OF 10% - REFER TO SITE INVESTIGATION BY ACCSIS LTD DATED AUGUST 2022. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR DEVIATE FROM THIS DESIGN UNLESS APPROVED BY THE ENGINEER.



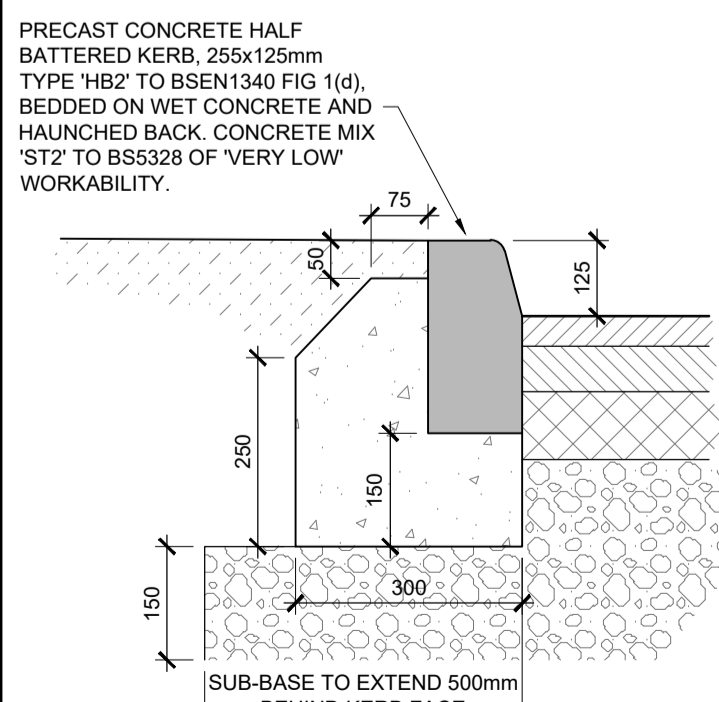
TYPICAL CROSS SECTION AND CONSTRUCTION DETAIL FOR FOOTWAY AND VERGE  
1:20



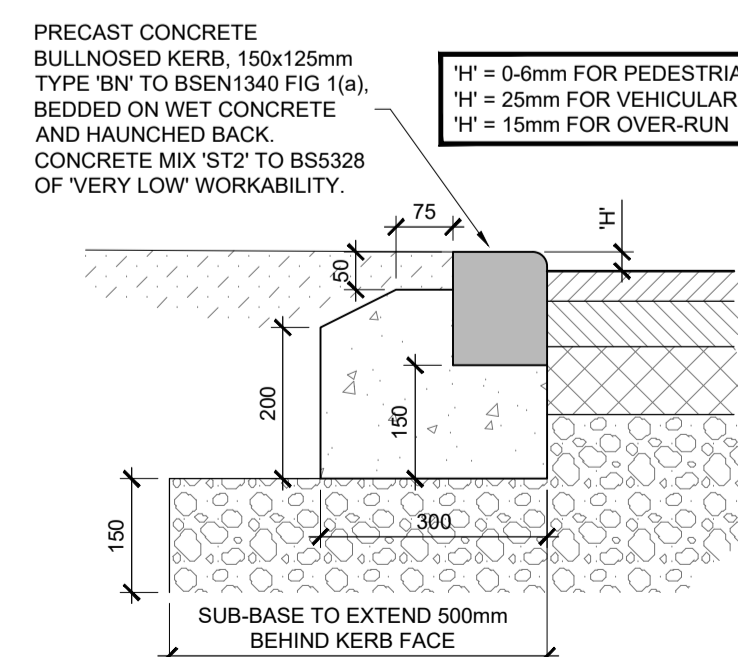
TYPICAL CONSTRUCTION DETAIL FOR VEHICULAR CROSSING OVER A FOOTWAY  
1:20



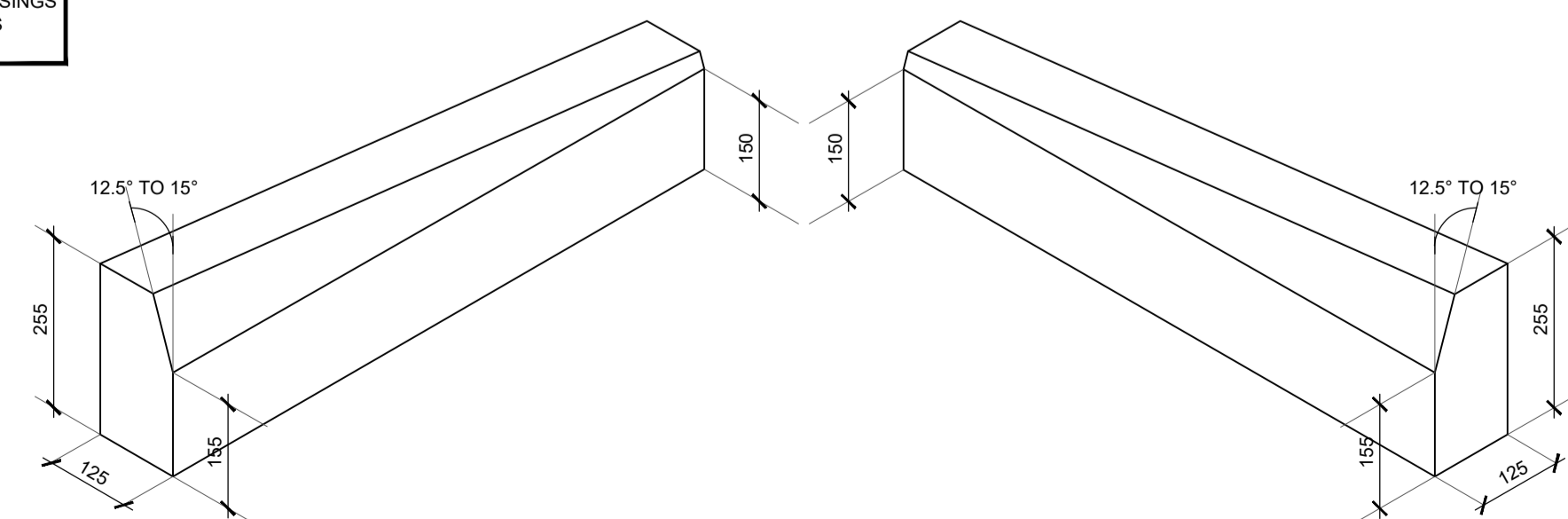
NOTE: KERB TO HAVE 12mm UPSTAND AT VEHICULAR CROSSINGS (UNLESS SHOWN OTHERWISE) AND LAID FLUSH WITH CARRIAGEWAY CHANNEL AT PEDESTRIAN/PRAM CROSSINGS.  
TYPICAL DROP KERB DETAIL AT VEHICULAR AND PRAM CROSSINGS ON FOOTWAYS  
1:20



TYPICAL FULL FACE KERB DETAIL (DETAIL 'HB125')  
1:10

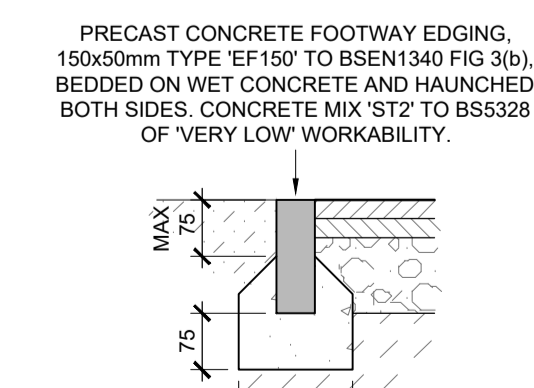


TYPICAL BULLNOSED KERB DETAIL (DETAIL 'BN'H')  
x = 'H'  
1:10

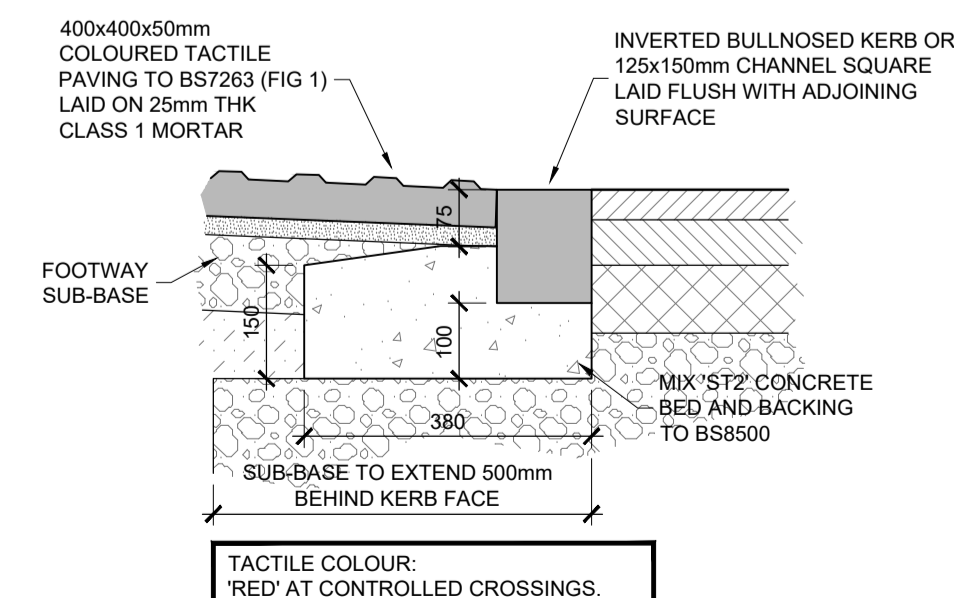


PRECAST CONCRETE DROPPER KERB (LEFT HAND REF TR)  
1:10

PRECAST CONCRETE DROPPER KERB (RIGHT HAND REF TR)  
1:10



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



TYPICAL DROP KERB DETAIL AT PRAM CROSSING (WITH TACTILE PAVING) (DETAIL 'BN0')  
1:10

**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:**
- UNKNOWN LOCATION OF EXISTING UTILITIES.
  - WORKS WITHIN EXISTING CARRIAGEWAY.
  - OVERHEAD LIVE CABLES.
  - CONNECTION TO LIVE SEWER.

- MAINTENANCE/CLEANING/IN USE RISKS:**
- NO SIGNIFICANT RISKS.

- DEMOLITION RISKS:**
- NO SIGNIFICANT RISKS.

**GENERAL NOTES**

- DO NOT SCALE, IF IN DOUBT ASK.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEER'S DRAWINGS AND DETAILS, THE SPECIFICATION FOR THE WORKS, THE RELEVANT ARCHITECT'S DRAWINGS AND ANY OTHER SPECIALIST'S DRAWINGS.
- THE PRINCIPAL CONTRACTOR IS TO PROVIDE FULLY DESIGNED PROPPING/SHORING TO FACILITATE THE WORKS. ALL PROPPING & BRACING IS TO BE ADEQUATELY FOUNDED TO ENSURE THE STABILITY/INTEGRITY OF THE EXISTING/PROPOSED STRUCTURES &/OR EARTHWORKS IS MAINTAINED. UNLESS INDICATED ON THE DRAWINGS, THE TEMPORARY WORKS ARE NOT TO IMPOSE REACTIONS ON THE PERMANENT STRUCTURE WITHOUT PRIOR WRITTEN CONSENT FROM ROSSI LONG CONSULTING.
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- REFER ALSO TO THE GENERAL NOTES ON LAYOUT DRAWINGS.
- ALL CONSTRUCTION DETAILS, MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NORFOLK COUNTY COUNCIL'S 'ROAD CONSTRUCTION AND STREET LIGHTING SPECIFICATION' (CURRENT EDITION), READ IN CONJUNCTION WITH THE 'SPECIFICATION FOR HIGHWAYS WORKS' (PUBLISHED BY THE DEPARTMENT FOR TRANSPORT).

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**PRELIMINARY DRAWING:**  
THIS DRAWING IS FOR PRELIMINARY PURPOSES ONLY AND MUST NOT BE READ AS A CONSTRUCTION ISSUE. IT INDICATES DESIGN INTENT ONLY AND IS SUBJECT TO AMENDMENT DURING FINAL DESIGN DEVELOPMENT.

REV	DESCRIPTION	DATE	BY	AUTH
P02	UPDATED TO MEET NCC COMMENTS.	06.12.23	EG	-
P01	PRELIMINARY ISSUE.	30.10.23	EG	-

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CLIENT  
**FREEBRIDGE COMMUNITY HOUSING**

PROJECT  
**LAND AT BRENTWOOD BRANCASTER STAITHE**

TITLE  
**S278 CONSTRUCTION DETAILS SHEET 1**

DRAWN	AUTHORISED	DATE	SCALE AT A1
EG	-	OCT 2023	REFER TO DRAWING

SUITABILITY  
S0 - WORK IN PROGRESS

PROJECT NO.	DRAWING FIELDS.	DRAWING NO.	REV
211382		C-170	P02