

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

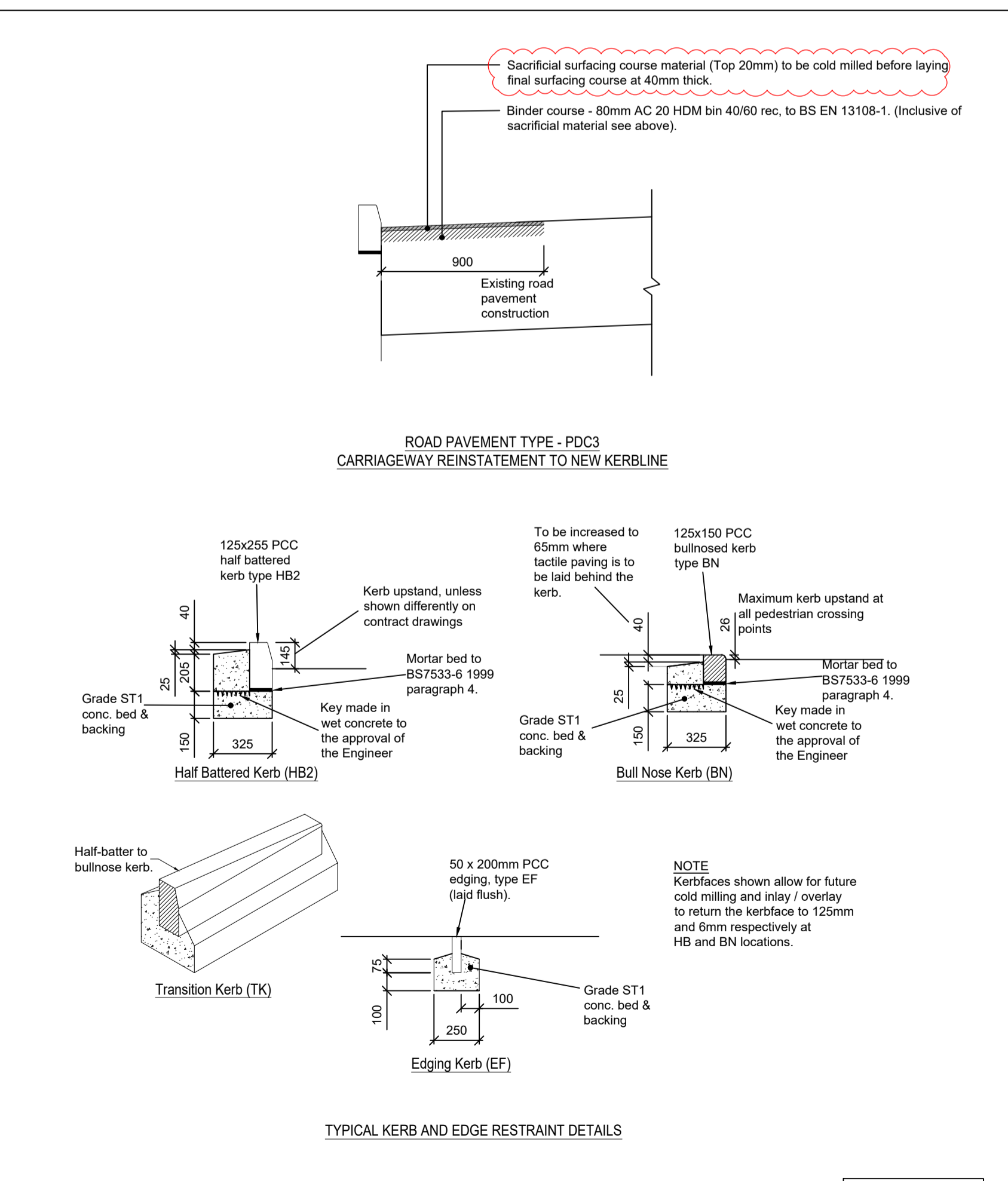
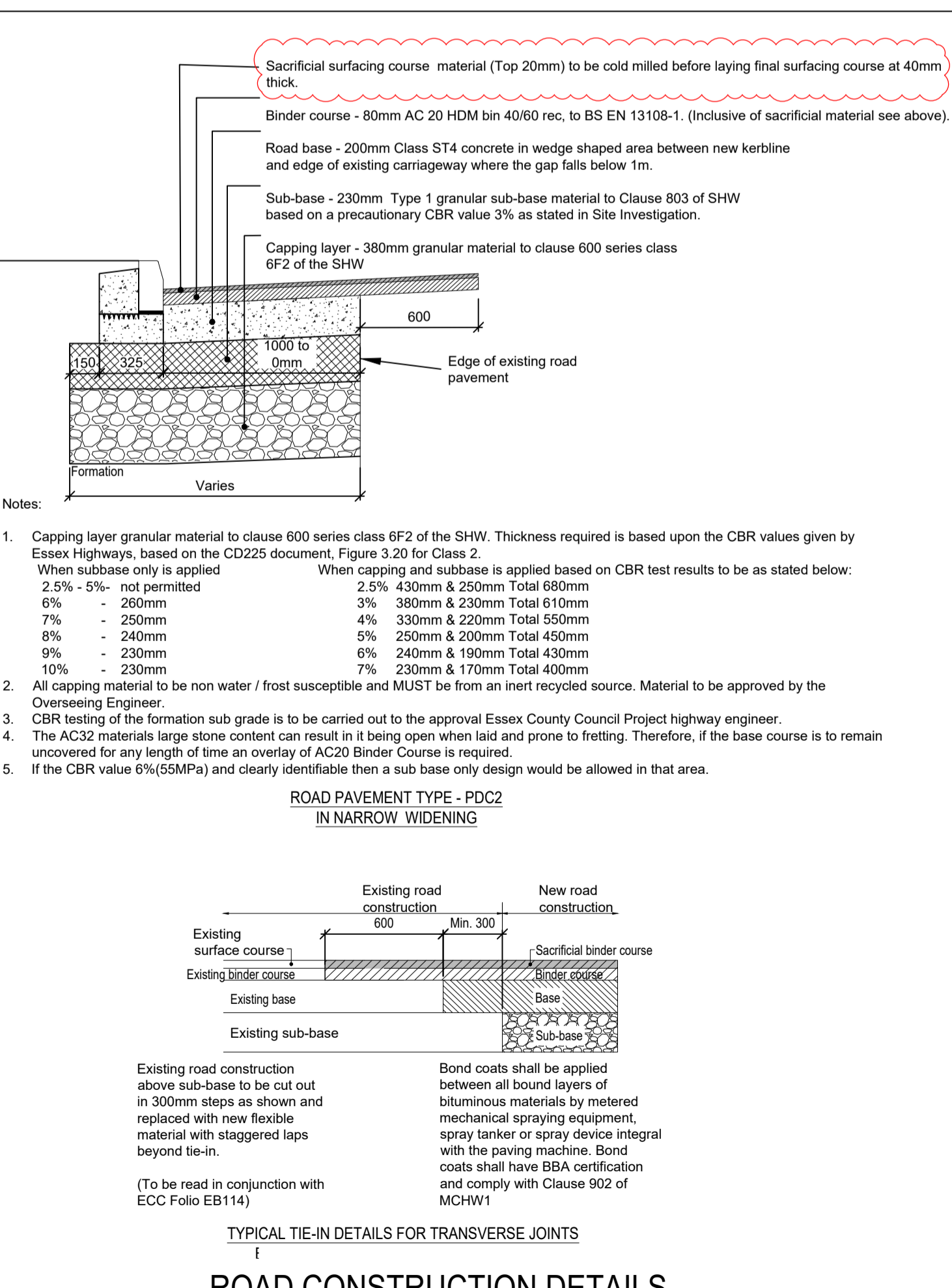
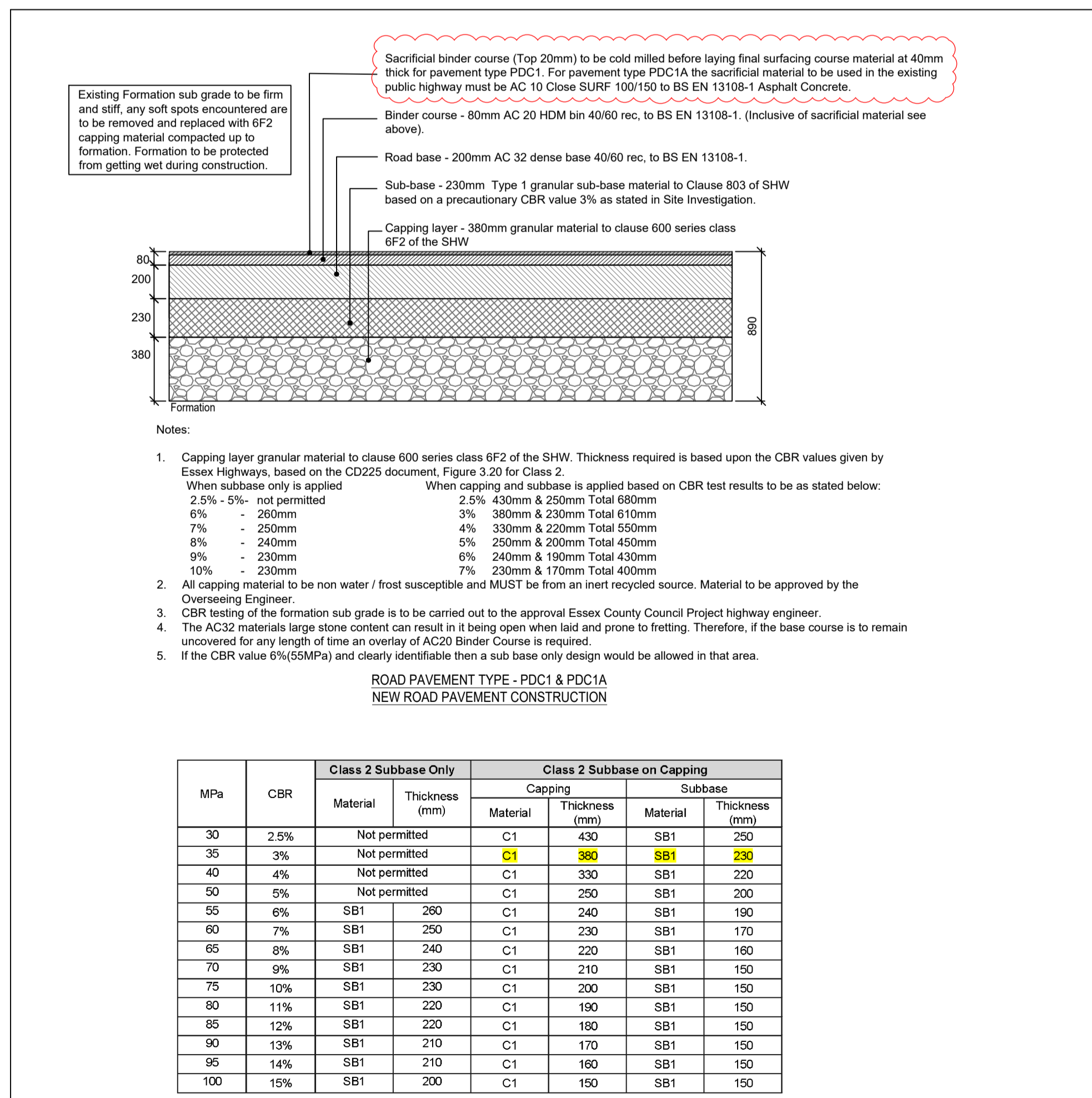
Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

- Notes:**
- Proof rolling of the formation level will be required and any loose or soft spots should be removed and replaced with an engineered fill, in accordance with a suitable specification. The formation level will also need to be protected during inclement weather from deterioration; all slopes should be trimmed to falls to shed rain water and the surface sealed to limit infiltration.
 - Prior to placement of the founding materials and the construction of the road pavement, the sub-formation and formation will need to be inspected and checked in accordance with a suitable specification to ensure the ground conditions are as expected. All testing should be carried out in accordance with DMRB CD 225 to confirm that the ground conditions at the time of construction are consistent with the previous design parameters.
 - Where the CBR is found to be less than 2.5%, the sub-grade may be unsuitable for both the trafficking of site plant and as support for a permanent foundation, without improvement works being undertaken. Improvement works should be carried out in accordance with DMRB CD 225. In summary, consideration may be given to the following potential remedial techniques:
 - Excavation and re-engineering or replacement of weaker soils
 - The inclusion of geosynthetic reinforcement within the unbound layers of the capping and sub-grade
 - Where cohesive soils are present and they are deemed suitable or treatment with hydraulic binders, to employ modification and/or stabilisation techniques on the formation.
 - A precautionary CBR Value of 3% is taken from the ground investigation carried out by RSK Geosciences January 2023.
 - It will be necessary to carry out CBR tests at formation level at 40 meters centres (Approx.) down the centreline of all roads and carriageway widening
 - Any construction works carried out at the proposed adoptable carriageway prior to technical approval to do so at own risk.

ALL WORKS TO BE COMPLIANT WITH NATIONAL HIGHWAYS MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS: VOLUME 1 - SPECIFICATION FOR HIGHWAY WORKS (SHW)

ALL WORKS TO ADHERE TO THE FULL REQUIREMENT OF ESSEX HIGHWAYS DEVELOPMENT CONSTRUCTION MANUAL (DCM)



DCM TABLE 6 - ROAD PAVEMENT FOUNDATIONS

MPa	CBR	Class 2 Subbase Only		Class 2 Subbase on Capping	
		Material	Thickness (mm)	Material	Thickness (mm)
30	2.5%	Not permitted		C1	430
35	3%	Not permitted		C1	380
40	4%	Not permitted		C1	330
50	5%	Not permitted		C1	250
55	6%	SB1	260	C1	240
60	7%	SB1	250	C1	230
65	8%	SB1	240	C1	220
70	9%	SB1	230	C1	210
75	10%	SB1	230	C1	200
80	11%	SB1	220	C1	190
85	12%	SB1	220	C1	180
90	13%	SB1	210	C1	170
95	14%	SB1	210	C1	160
100	15%	SB1	200	C1	150



DCM TABLE 6 - ROAD PAVEMENT FOUNDATIONS

TYPICAL TIE-IN DETAILS FOR TRANSVERSE JOINTS

TYPICAL KERB AND EDGE RESTRAINT DETAILS

Rev.	Date	Amendment	Drawn	Chkd.	Appd.
P04	04.02.2026	Updated in line with ECC's drawing & comments sheet. All revisions are clouded.	YP	GT	-
P03	26.11.2025	Updated in line with ECC's drawing & comments sheet. All revisions are clouded.	YP	GT	-
P02	21.10.2025	For Approval S278 Submission	YP	GT	-
P01	17.10.2025	For Comment	YP	GT	-

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Client
Bellway

Project Title
**RADWINTER ROAD, SAFFRON WALDEN
S278 HIGHWAY IMPROVEMENT WORKS
TEMPORARY SITE ACCESS**

Status
APPROVAL

Drawing Title
**SITE FINISHES &
ROAD CONSTRUCTION DETAILS**

Drawn	Date	Checked	Date	Approved	Date
YP	13.10.2025	GT	17.10.2025		

Scale	Orig Site	Dimensions
As Shown	A1	As Shown

Project No.	Project	Vol/Sys.	Lev./Loc.	Type	Role	Draw. No.
891015	RSK	ZZ	XX	DR	C	7054

Drawing No.	Rev.
891015	P04

SCALE 1:25
DIMENSIONS (MM)