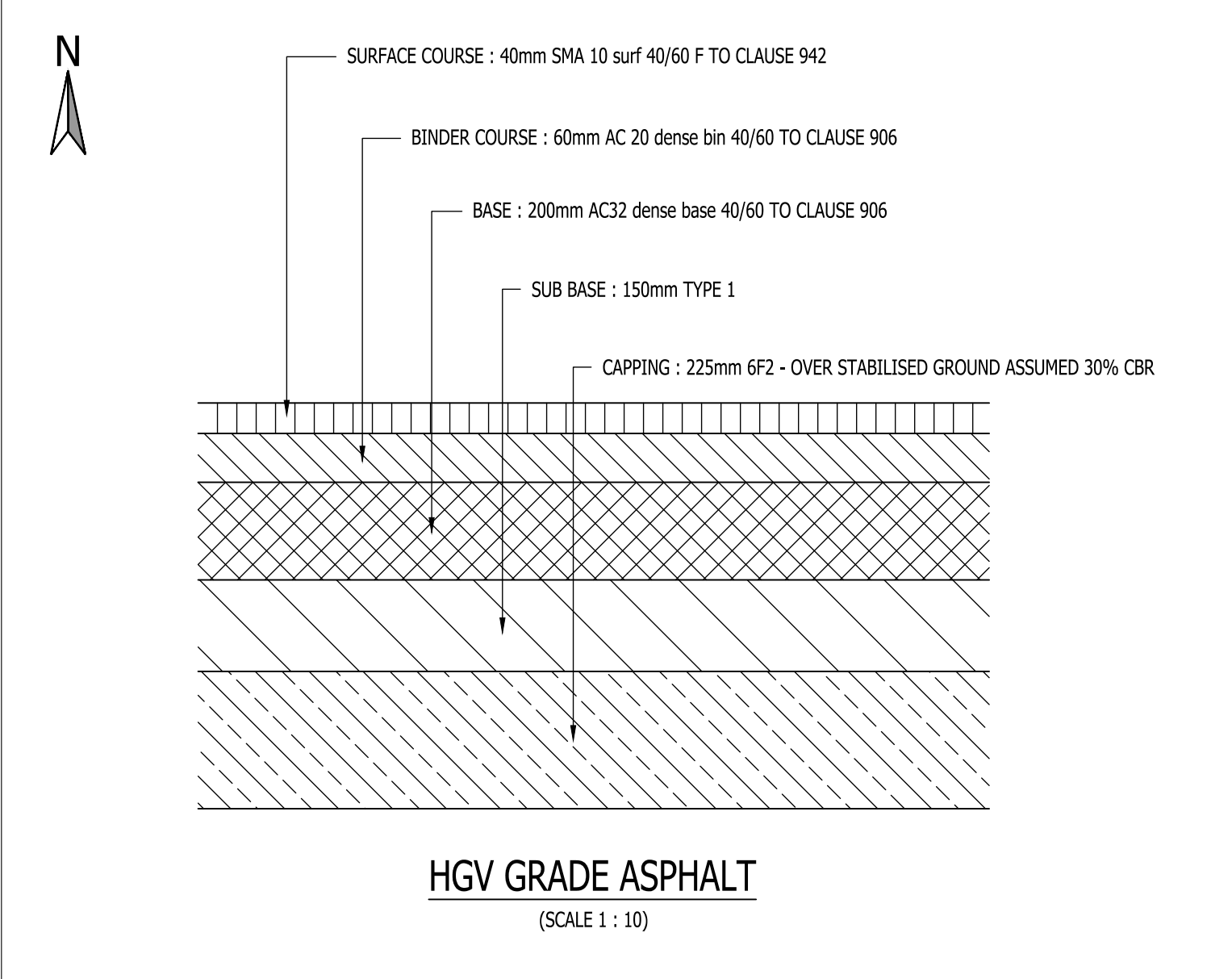
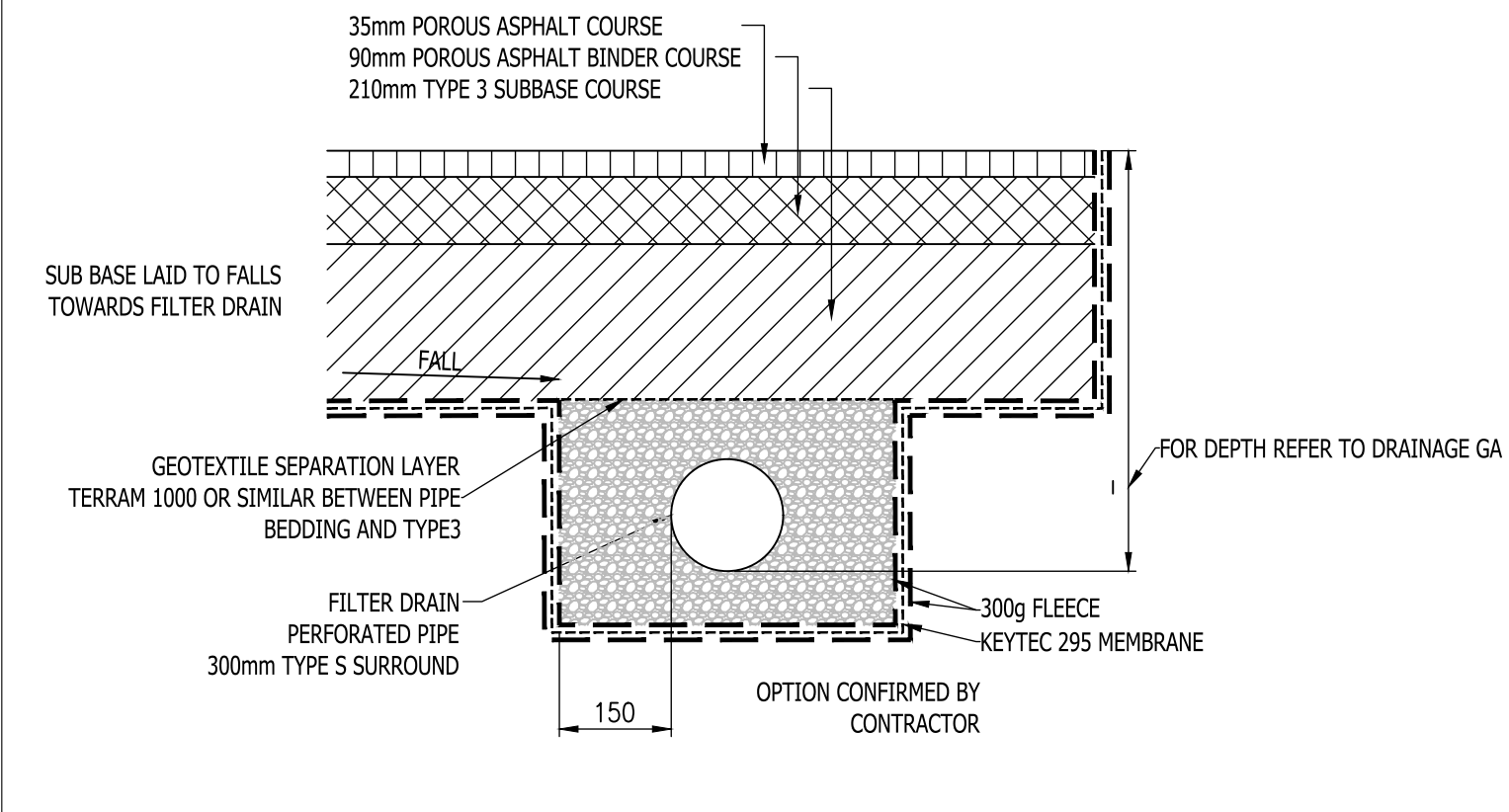
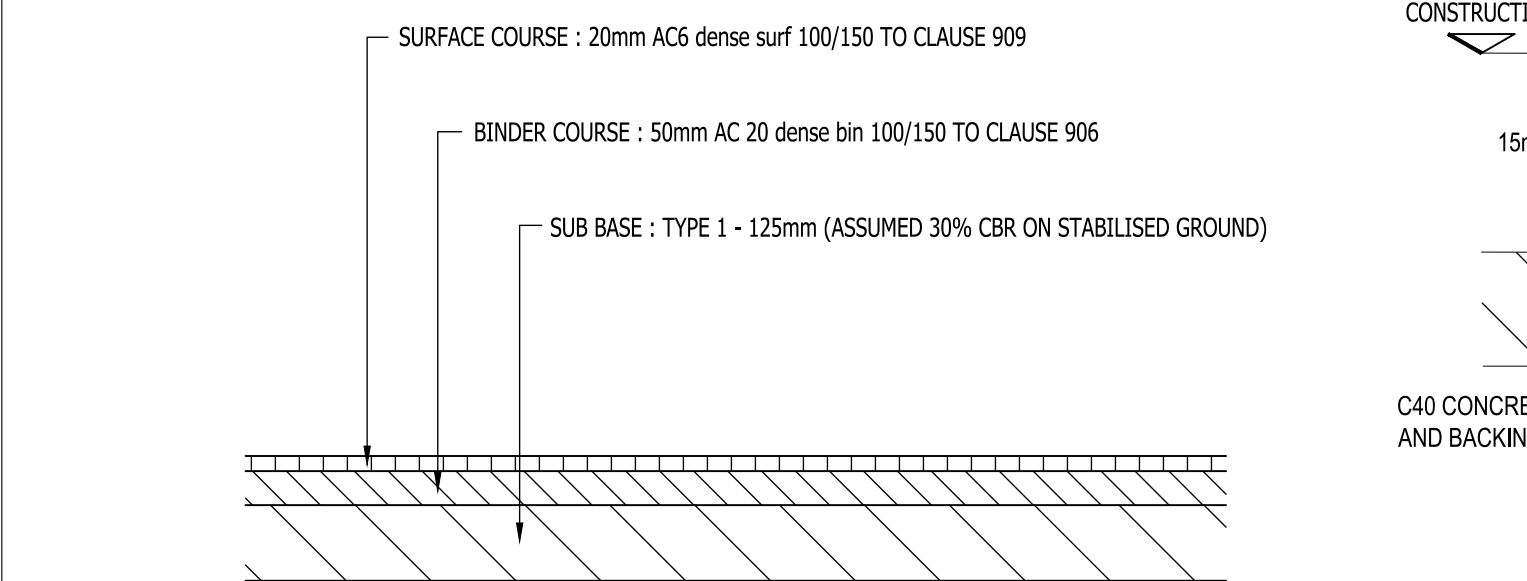




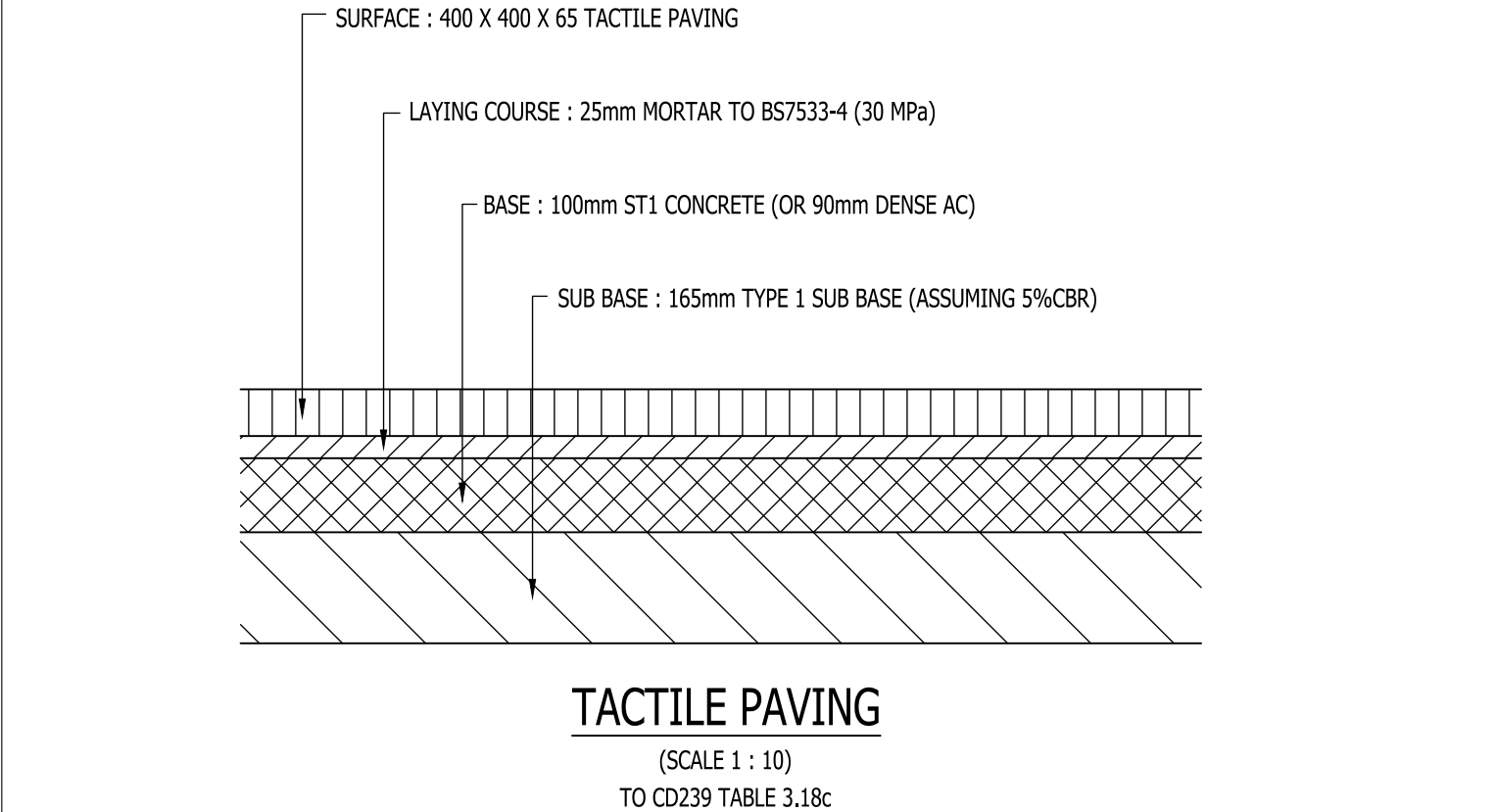
HGV GRADE ASPHALT
(SCALE 1 : 10)



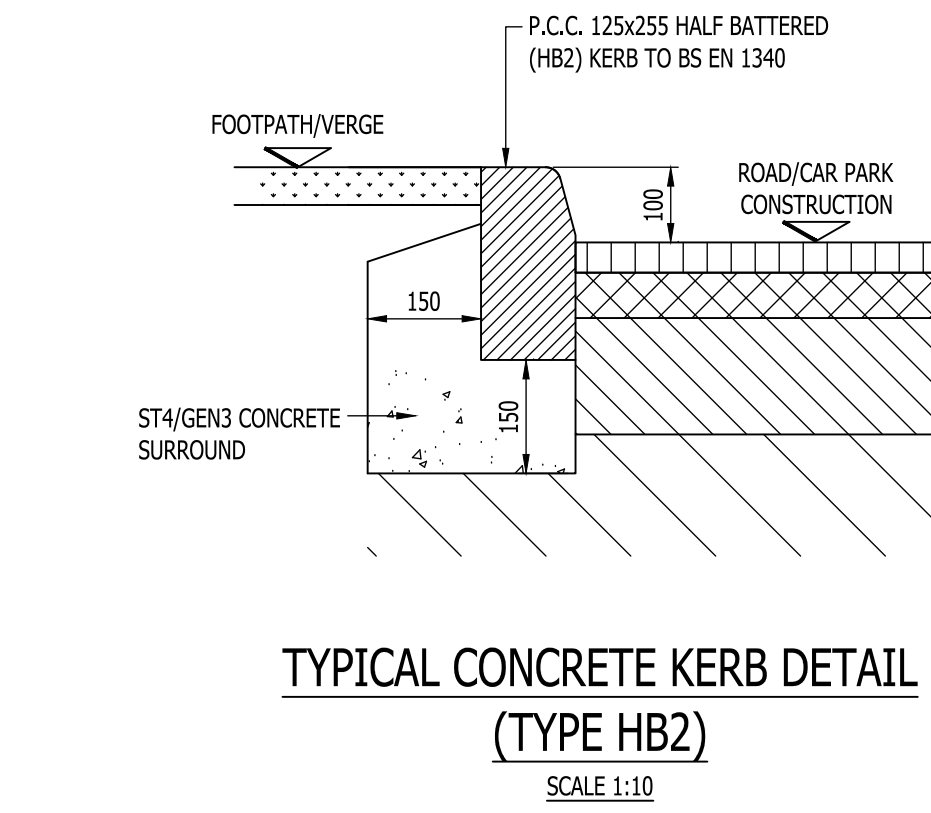
POROUS CAR PARK CONSTRUCTION
(SCALE 1 : 10)



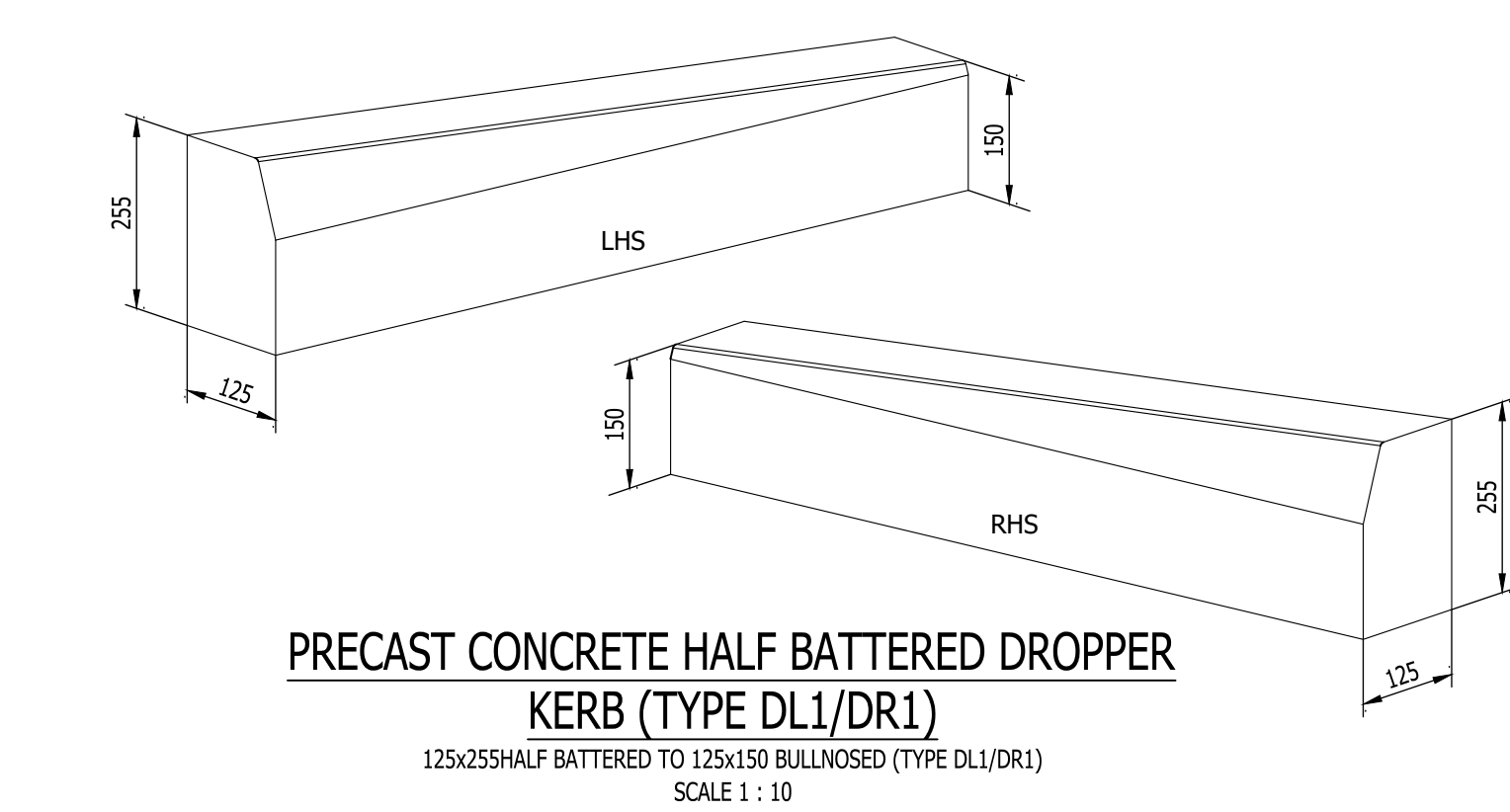
FOOTWAY GRADE ASPHALT
(SCALE 1 : 10)
TO CD239 TABLE 3.18b



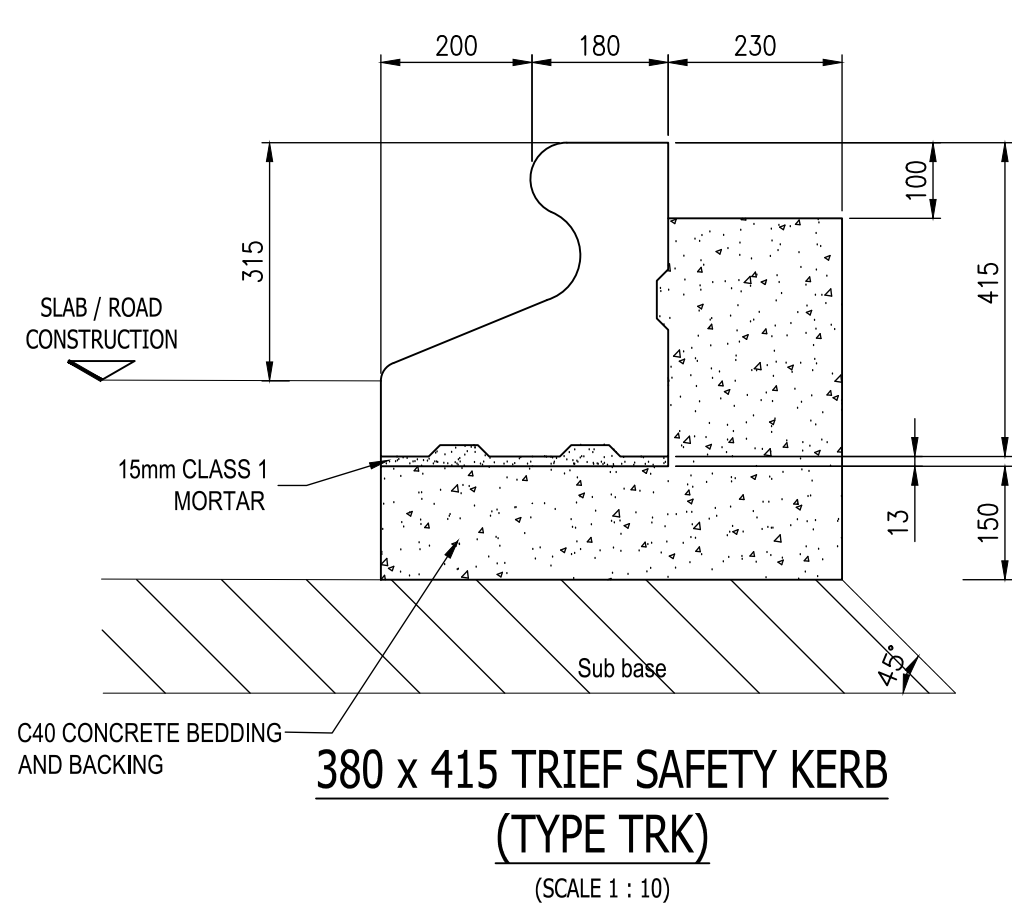
TACTILE PAVING
(SCALE 1 : 10)
TO CD239 TABLE 3.18c



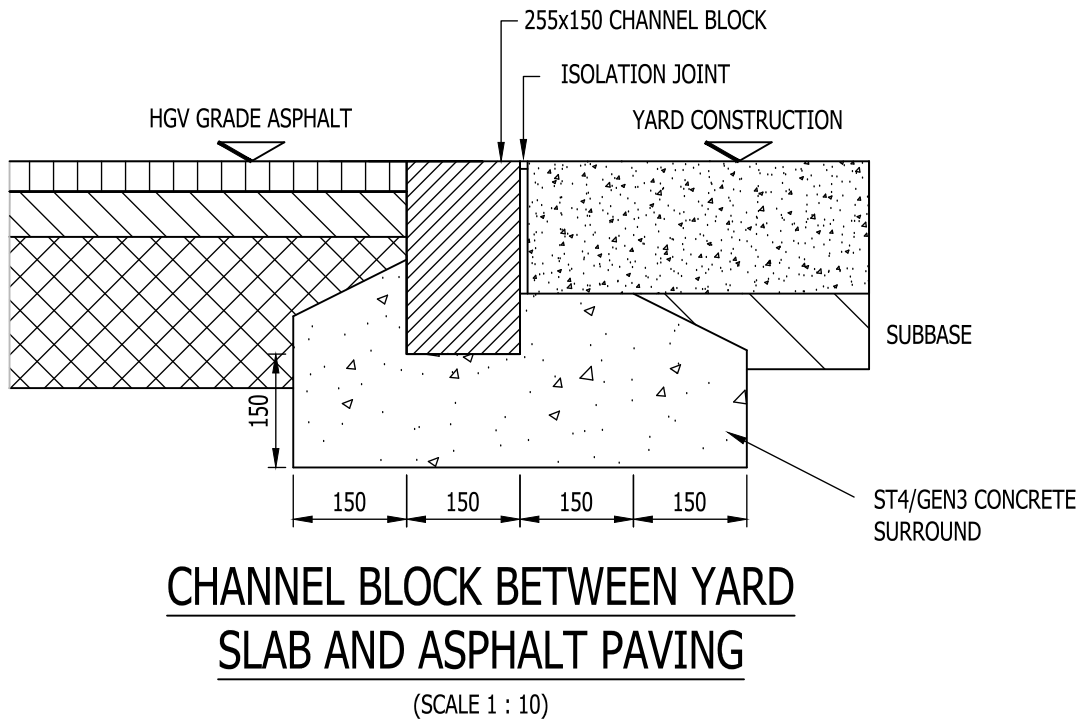
TYPICAL CONCRETE KERB DETAIL
(TYPE HB2)
(SCALE 1:10)



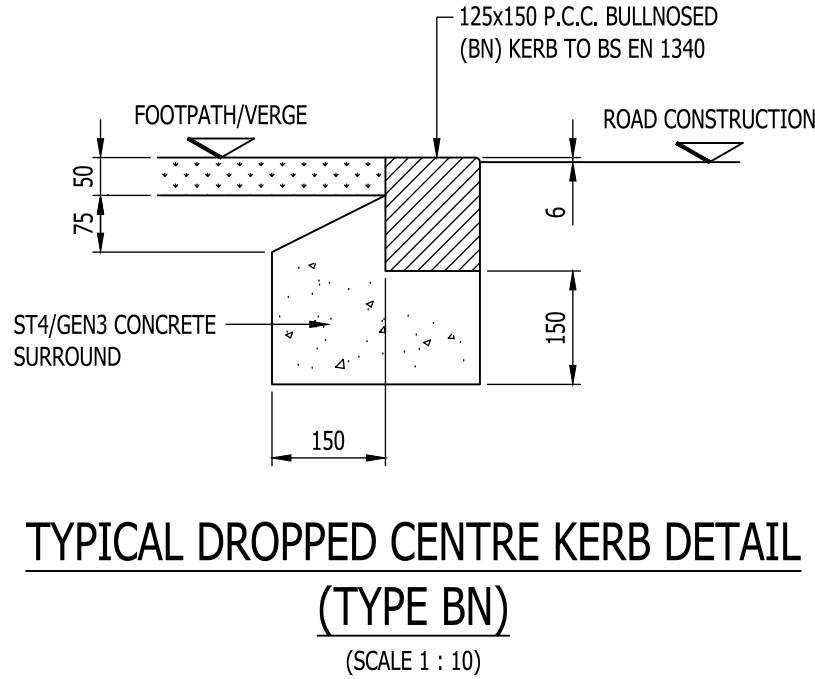
PRECAST CONCRETE HALF BATTERED DROPPER
KERB (TYPE DL1/DR1)
(SCALE 1 : 10)



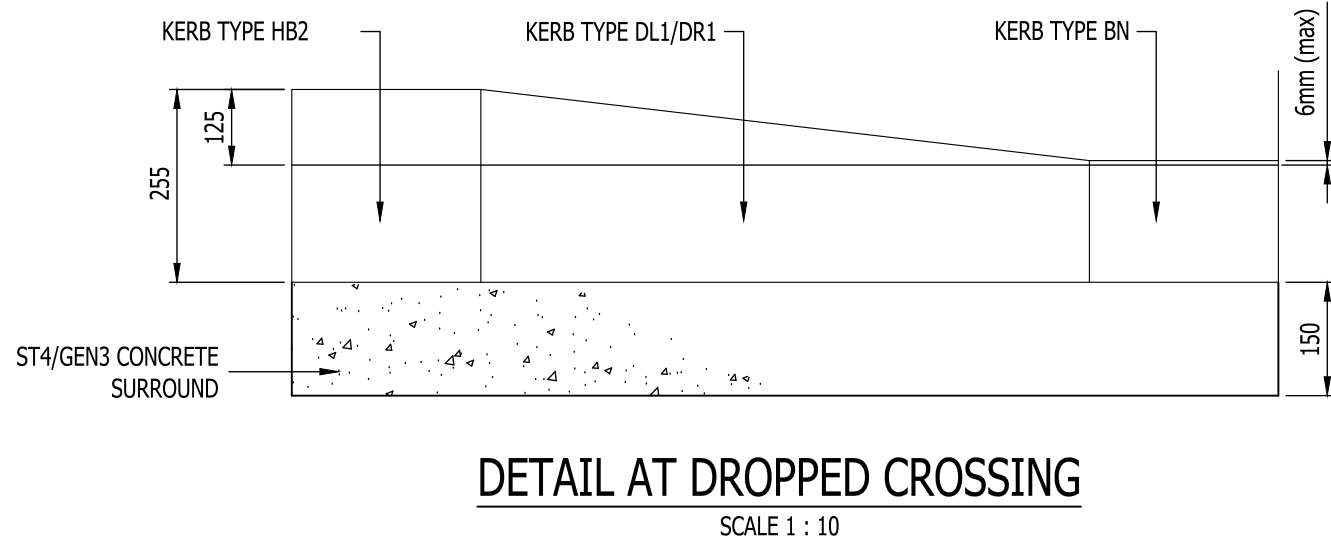
380 x 415 TRIEF SAFETY KERB
(TYPE TRK)
(SCALE 1 : 10)



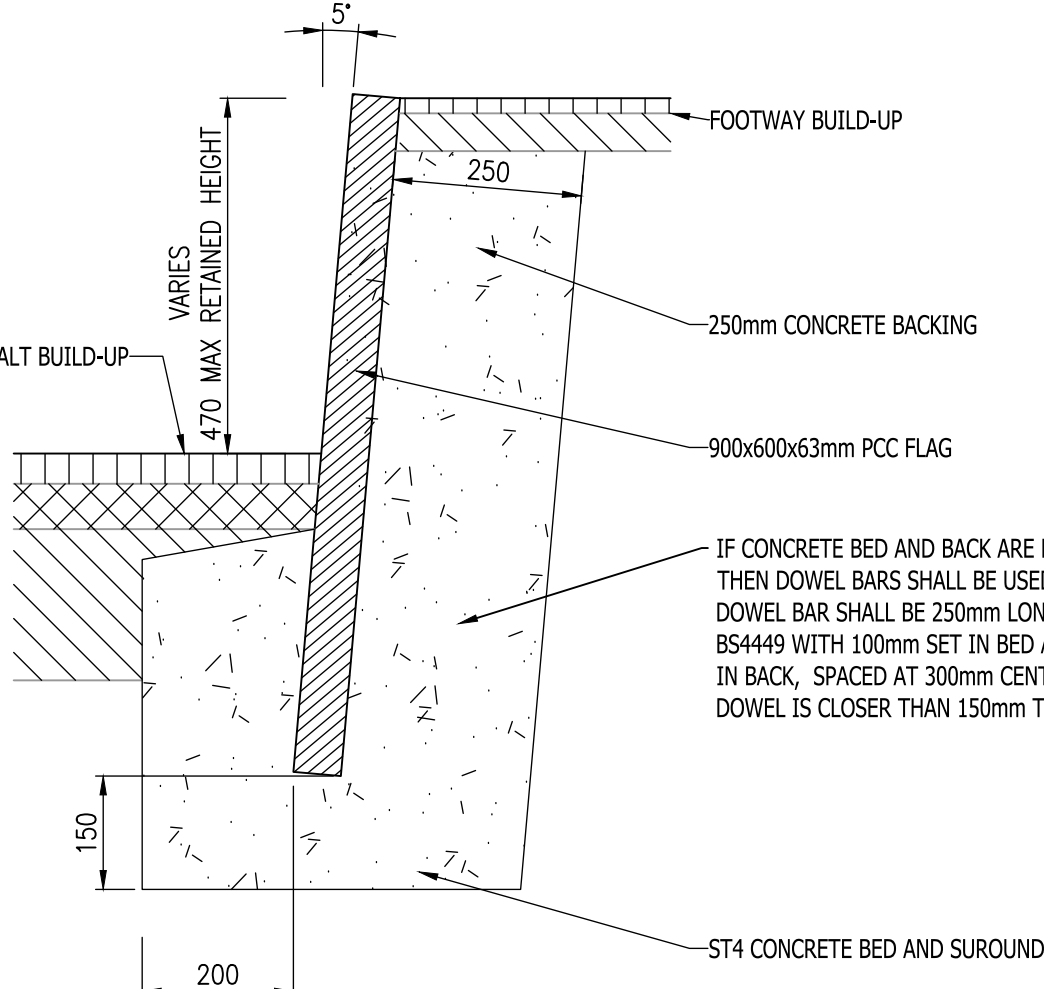
CHANNEL BLOCK BETWEEN YARD
SLAB AND ASPHALT PAVING
(SCALE 1 : 10)



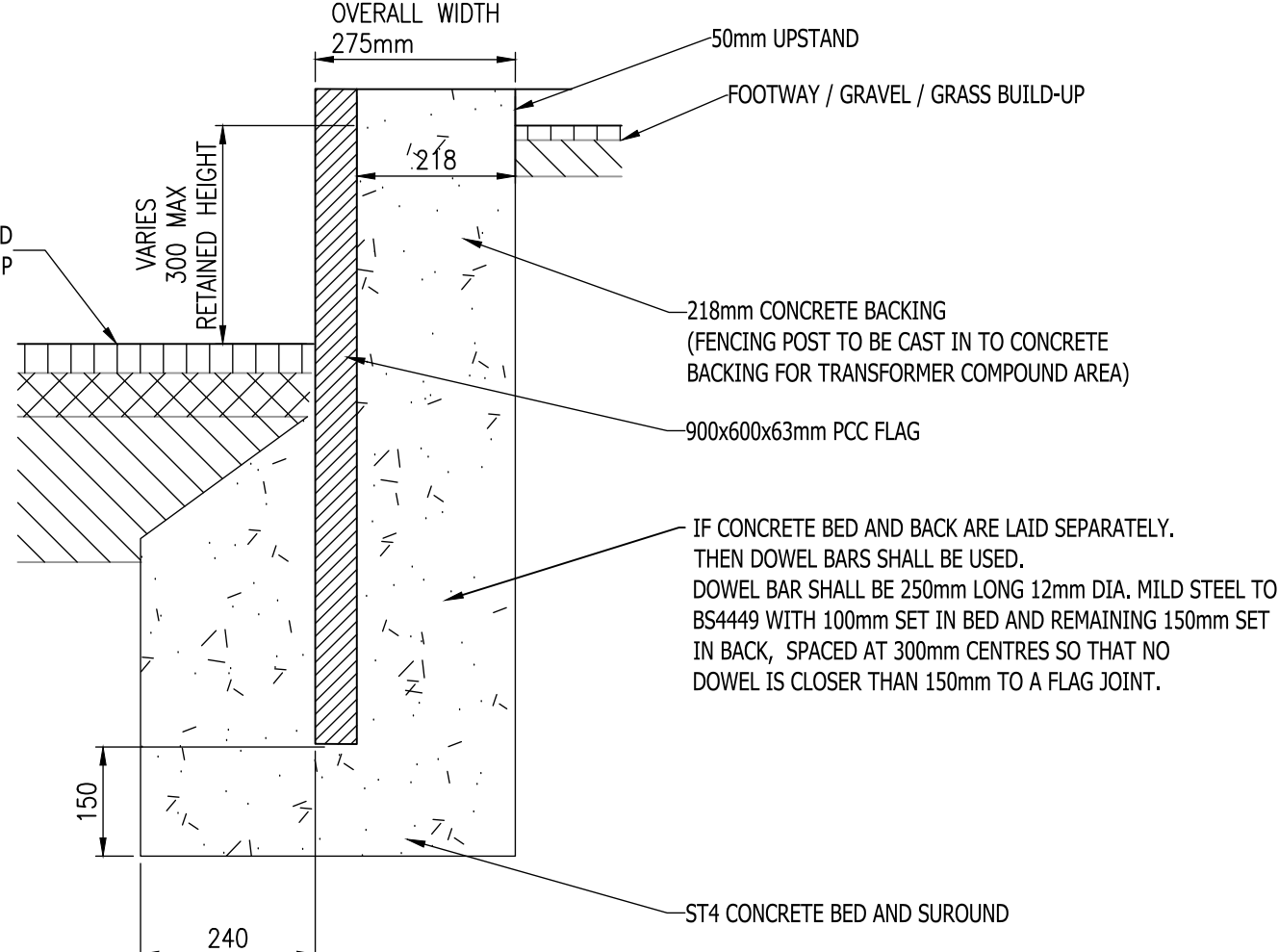
TYPICAL DROPPED CENTRE KERB DETAIL
(TYPE BN)
(SCALE 1 : 10)



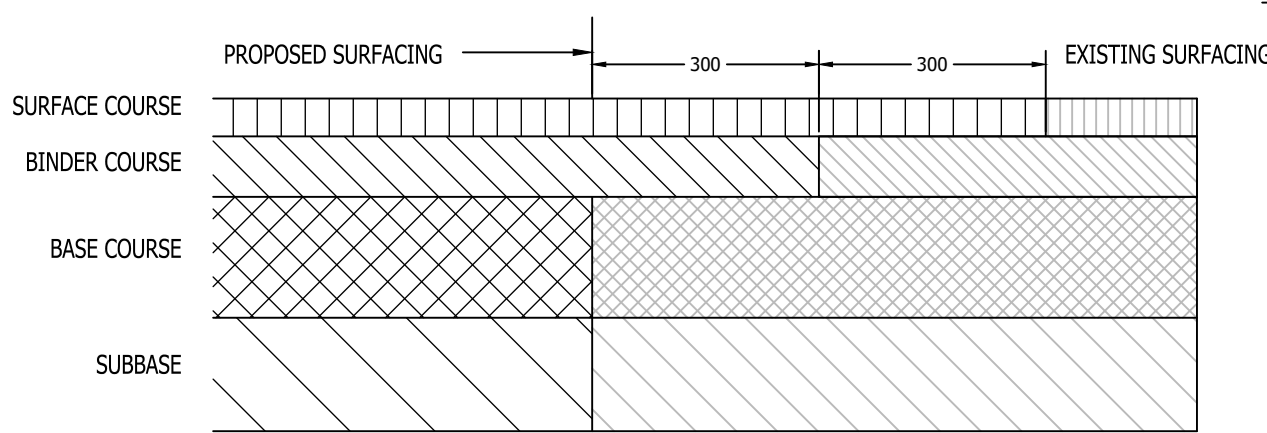
DETAIL AT DROPPED CROSSING
(SCALE 1 : 10)



FLAG ON EDGE DETAIL
TYPE A
475mm MAX RETAINED
NEAR HGV EXIT ROUTE
(SCALE 1 : 10)



FLAG ON EDGE DETAIL
TYPE B
LESS THAN 300mm RETAINED
NEAR SUB STATION
(SCALE 1 : 10)



TIE INS TO EXISTING SURFACING
(SCALE 1 : 10)

- NOTE**
- THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ENGINEERS SPECIFICATION.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED. LEVELS ARE IN METERS A.O.D
 - ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR/FABRICATOR PRIOR TO COMMENCEMENT OF WORK.
 - ALL LEVELS ARE INDICATIVE AND SHOULD BE ASSESSED BY THE CONTRACTOR/FABRICATOR PRIOR TO COMMENCEMENT OF WORK.
 - ALLOWABLE TOLERANCES IN LEVELS FROM SPECIFICATION
DESIGN :
SURFACE ±6mm
BINDER COURSE ±6mm
BASE COURSE ±15mm
SUB-BASE ±10mm
CAPPING ±30mm
- MEASURED AT SPOT LEVELS OR IRREGULARITIES UNDER A 3m STRAIGHT EDGE, PERMITTED TOLERANCE SHALL NOT RESULT IN A REDUCTION IN OVERALL CONSTRUCTION THICKNESS.
- THE KERB FACE SHALL GENERALLY BE 100mm. HOWEVER IN THE VICINITY OF DISABLED ACCESS IN FRONT OF BUILDINGS, THE SURFACING SHOULD BE LAID TO THE LEVELS INDICATED ON THE TTE EXTERNAL LEVELS DRAWING.
 - FOR PROPOSED SURFACE COURSE/FINISH AND KERBING ARRANGEMENT REFER TO ARCHITECTS EXTERNAL WORKS DRAWINGS.
 - MINIMUM DEPTH OF CONSTRUCTION FOR VEHICULAR ACCESS SHALL BE 450mm. ALL MATERIALS WITHIN 450mm OF THE SURFACE OF THE ROAD SHALL BE FROST RESISTANT AS DEFINED IN CLAUSE 801. VARIATIONS TO THIS MAY BE PERMITTED BUT SUBJECT TO SPECIFIC SITE CONDITIONS, SUB-GRADE MATERIALS AND CBR VALUES.
 - A TESTING REGIME, SPECIFIED IN ACCORDANCE WITH THE MCHW (Ref 4.N), SHALL BE DETAILED TO ESTABLISH THE CONSTRUCTION SUBGRADE SURFACE MODULUS (CBR VALUE).
 - WHERE THE DESIGN SUB-GRADE MODULUS IS FOUND TO BE LOWER THEN 30MPa (2.5% CBR) THEN GROUND IMPROVEMENT IS REQUIRED. ACCEPTABLE GROUND IMPROVEMENT OPTIONS ARE AS FOLLOWS:
 - REPLACEMENT OF SOFT MATERIAL WITH SUITABLE GRANULAR MATERIAL TO SERIES 600 MCSHW
 - INSTALLATION OF APPROPRIATE APPROVED GEO-GRID DESIGNED BY SPECIALIST SUPPLIER
 - GROUND STABILISATION VIA LIME OR CEMENT IN ACCORDANCE WITH SERIES 800 MCSHW
 - WHERE SUB-GRADE MODULUS IS FOUND TO BE 50MPa (5% CBR) OR LESS A CAPPING LAYER MUST BE INSTALLED. IT IS CONSIDERED GOOD PRACTICE TO INSTALL A CAPPING LAYER IN ALL CIRCUMSTANCES FOR BUILDABILITY AND STABILITY.
 - THE PAVEMENT DESIGN AND ASSOCIATED THICKNESSES ARE BASED ON THE ASSUMPTION THAT THE CONTRACTOR WILL UNDERTAKE CEMENT STABILISATION TO ALL SUB-GRADE AREAS TO ACHIEVE A MINIMUM OF 30% CBR IN ACCORDANCE WITH SERIES 800 OF THE MCSHW CLAUSE 822. THE DESIGN AND SPECIFICATION OF THE STABILISED LAYER IS BY THE CONTRACTORS APPOINTED SPECIALIST SUB-CONTRACTOR.

CBR TABLES

CBR VALUE %	CAPPING	SUB-BASE	OVERALL THKNESS	SUB-BASE ONLY
1.5	420mm	240mm	660mm	-
2	420mm	240mm	660mm	-
2.5	420mm	240mm	660mm	-
3	390mm	225mm	615mm	-
4	335mm	220mm	555mm	-
5	245mm	200mm	445mm	-
8	220mm	150mm	370mm	240mm
10	200mm	150mm	350mm	220mm
15	150mm	150mm	300mm	210mm

CONSTRUCTION ISSUE

CD4	FLAG ON EDGE TYPE B ADDED	04.03.2025	DH	DH	NM
CD3	TIE-IN AND YARD CHANNEL BLOCK DETAIL ADDED	18.12.2024	DH	DH	NM
CD2	POROUS CAR PARK DETAILS AMENDED TO SHOW KEYTEC 295 MEMBRANE AND FLEECE PROTECTION, SUB-BASE AMENDED FOR HGV ACCESS ROAD DETAIL AND CEMENT STABILISATION NOTE ADDED. KERB FACE HEIGHT & CAR PARK DETAIL AMENDED, FLAG ON EDGE ADDED	07.11.24	DH	DH	NM
CD1	ADDED	02.10.2024	FB	DH	NM

Rev	Description	Date	Em / Chk / App
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Client

Project Name

BOX 4

Sheet Title

EXTERNAL WORKS TYPICAL DETAILS