		<u>SUB BASE COURSE</u>	BASE COURSE		BINDER COURSE	SURFACE COURSE				BEDDING COURSE	PAVERS
	CONSTRUCTION – ROAD TYPE (1)	GRANULAR SUB BASE MATERIAL TYPE 1 TO CLAUSE 803 TABLE 8/2 M.C.H.W. VOL. 1. SERIES 800 (2)	ASPHALT CONCRETE TO BS EN 13108–1 AND PD 6691 UTILISING AGGREGATE TO BS EN 13043 AND PD 6682–2	CONCRETE DESIGNATION (BS 8500-2:2015 + A2:2019 TABLE 6)	ASPHALT CONCRETE TO BS EN 13108–1 AND PD 6691 UTILISING AGGREGATE TO BS EN 13043 AND PD 6682–2	SMA TO BS EN 13108–5 AND PD 6691 WITH AGGREGATE TO BS EN 13043 AND PD 6692–2	HOT ROLLED ASPHALT TO BS EN 13108-4 AND PD 6691 UTILISING AGGREGATE TO BS EN 13043 AND PD 6692-2	CONCRETE DESIGNATION (BS 8500-2:2015 + A2:2019 TABLE 6)	ASPHALT CONCRETE TO BS EN 13108-1 AND PD 6691 UTILISING AGGREGATE TO BS EN 13043 AND PD 6682-2	COARSE SAND TO BS 7533–3 CATEGORY II OF ANNEX D	BLOCK PAVERS TO BS EN 1338 OF CLASS 2 WEATHERING RESISTANCE AND CLASS 3 ABRASION, AS WELL AS BEING LO' POTENTIAL FOR SLIP (REF: TABLE NA.2 OF BS EN 1338)(7)
PRIVATE ROAD HAVING FREQUENT USE BY COMMERCIAL VEHICLES	ROAD (BITUMINOUS MIXTURES)(ASPHALT)	REFER TO TABLE 2	100mm (AC 32 DENSE BASE 100/150 DES)	N/A	60mm (AC 20 DENSE BIN 100/150 DES)	30mm (SMA 10 SURF 40/60)	40mm (HRA 55/10 SURF 40/60 DES)	N/A	N/A	N/A	N/A
	ROAD (BLOCK PAVERS/TEGULA PAVERS)	IF CBR IS 5% OR LESS = 150mm (3) WHERE CBR IS GREATER THAN 5% = REFER TO TABLE 2	N/A	N/A	60mm (AC 20 DENSE BIN 100/150 DES)	N/A	N/A	N/A	N/A	50mm	80mm
	FOOTPATH (BITUMINOUS MIXTURES)	225mm (3)	N/A	N/A	60mm (AC 20 DENSE BIN 100/150 DES)	20mm (AC 6 DENSE SURF 100/150 DES)	N/A	N/A	N/A	N/A	N/A
SHARED PARKING AND ASSOCIATED ACCESS AREAS HAVING FREQUENT USE BY COMMERCIAL VEHICLES	BITUMINOUS MIXTURES (ASPHALT)	REFER TO TABLE 2	80mm (AC 32 DENSE BASE 100/150 DES)	100mm GRADE GEN2 (4)	60mm (AC 20 DENSE BIN 100/150 DES)	30mm (SMA 10 SURF 40/60)	N/A	N/A	N/A	N/A	N/A
	BLOCK PAVERS/ TEGULA PAVERS	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50mm	80mm
SHARED DRIVES HAVING INFREQUENT USE BY COMMERCIAL VEHICLES	BITUMINOUS MIXTURES (ASPHALT)	REFER TO TABLE 2	REFER TO NOTE 5	N/A	80mm (AC 20 DENSE BIN 100/150 DES (6))	30mm (SMA 10 SURF 40/60)	40mm (HRA 55/10 SURF 40/60 DES)	N/A	N/A	N/A	N/A
	CONCRETE	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	150 GRADE PAV2	N/A	N/A	N/A
	BLOCK PAVERS/ TEGULA PAVERS	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50mm	80mm
	GRAVEL	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PRIVATE DRIVES AND PARKING AREAS HAVING USE BY CARS AND LIGHT VEHICLES	BITUMINOUS MIXTURES (ASPHALT)	REFER TO TABLE 2	N/A	N/A	60mm (AC 20 DENSE BIN 100/150 DES)	25mm (SMA 6 SURF 40/60)	N/A	N/A	25mm (AC 6 DENSE SURF 100/150 DES)	N/A	N/A
	CONCRETE	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	100 GRADE PAV1	N/A	N/A	N/A
	BLOCK PAVERS/ TEGULA PAVERS	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50mm	50mm
	GRAVEL	REFER TO TABLE 2	N/A	N/A	N/A	N/A	N/A	N/A	REFER TO NOTE 8	N/A	N/A

<u>NOTES</u>

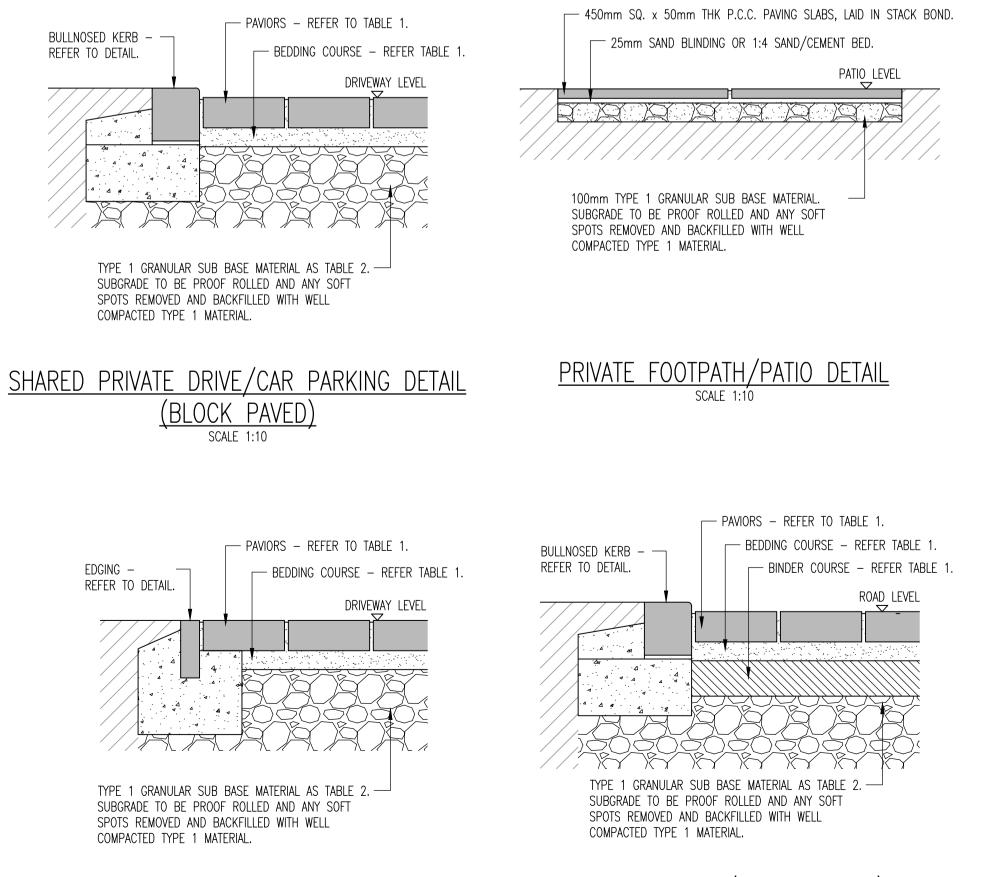
1. IN THE FIRST COLUMN, EUROPEAN HARMONISED NAMES FOR THE PAVEMENT LAYERS ARE WITH THE OLD UK DESIGNATIONS INCLUDED IN BRACKETS.

2. WHERE A CAPPING LAYER IS SPECIFIED, SUB-BASE THICKNESS CAN BE REDUCED. PAVEMENT DESIGN CD 225 REVISION 1 GIVES GUIDANCE ON CAPPING AND SUB-BASE THICKNESS DESIGN BASED ON CBR VALUES WITH AND WITHOUT A CAPPING LAYER.

3. FOR THE MINIMUM THICKNESS OF THE SUB-BASE FOR DIFFERENT CBR VALUES, REFER TO TABLE 2.

4. BOND COAT IN ACCORDANCE WITH BS 594987 SHOULD BE APPLIED TO ENSURE EFFECTIVE BONDING OF THE ASPHALT LAYERS.

5. BITUMINOUS MIXTURES/ASPHALT CAN BE USED AS A PARTIAL REPLACEMENT OF A FULL THICKNESS GRANULAR SUB-BASE TYPE 1 MATERIAL.



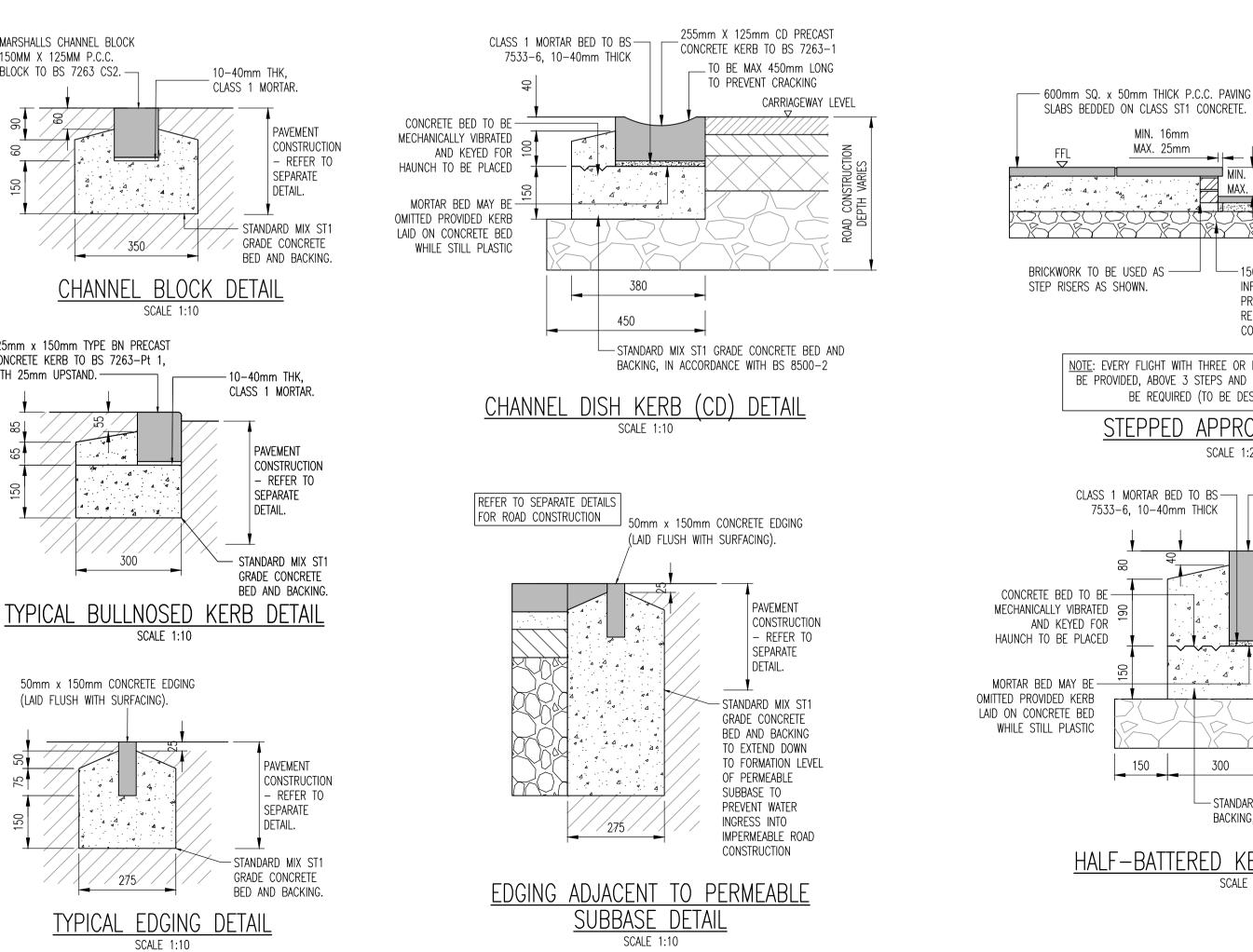
INDIVIDUAL PRIVATE DRIVE (BLOCK PAVED) SCALE 1:10

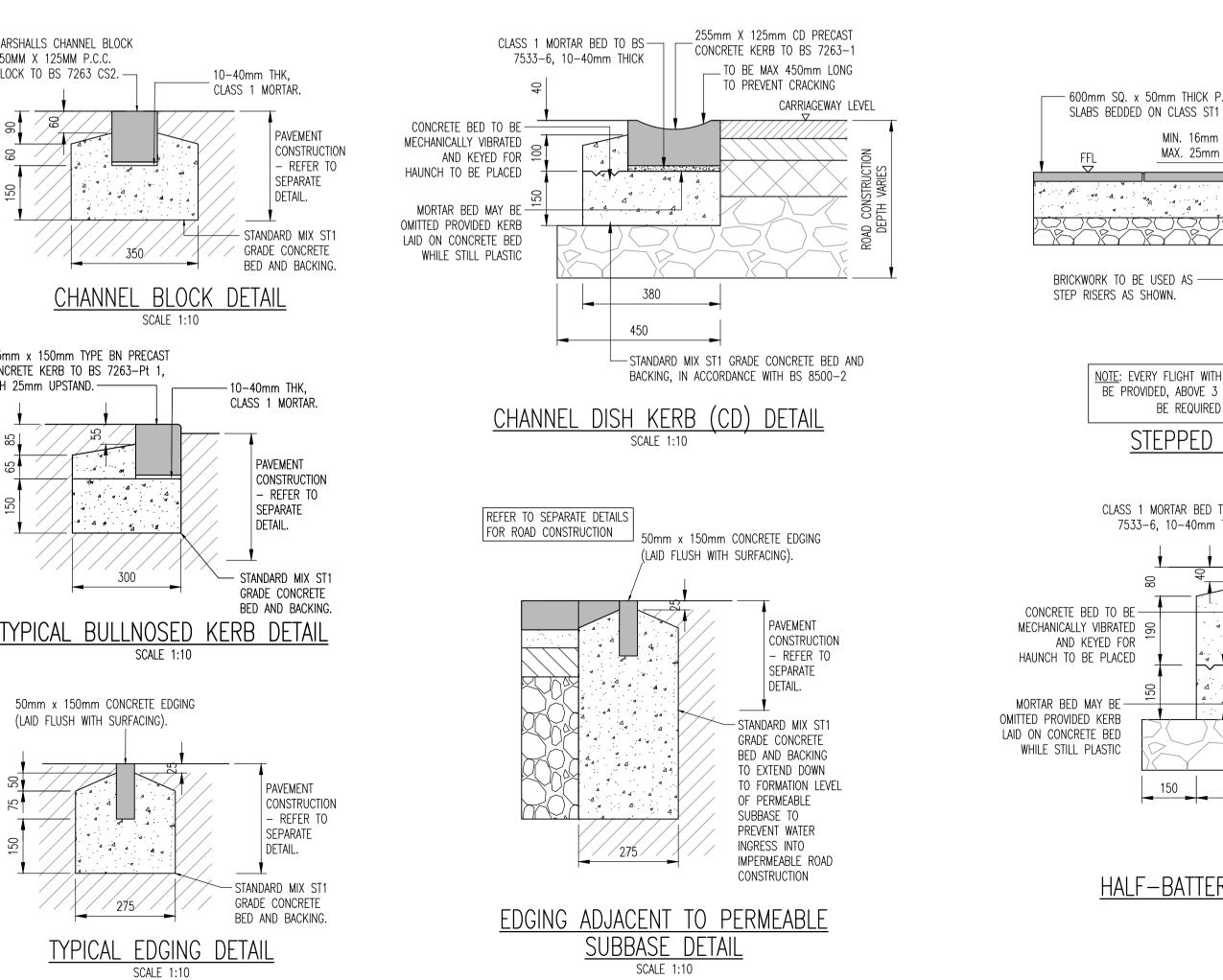
PRIVATE ROAD (BLOCK PAVED) SCALE 1:10

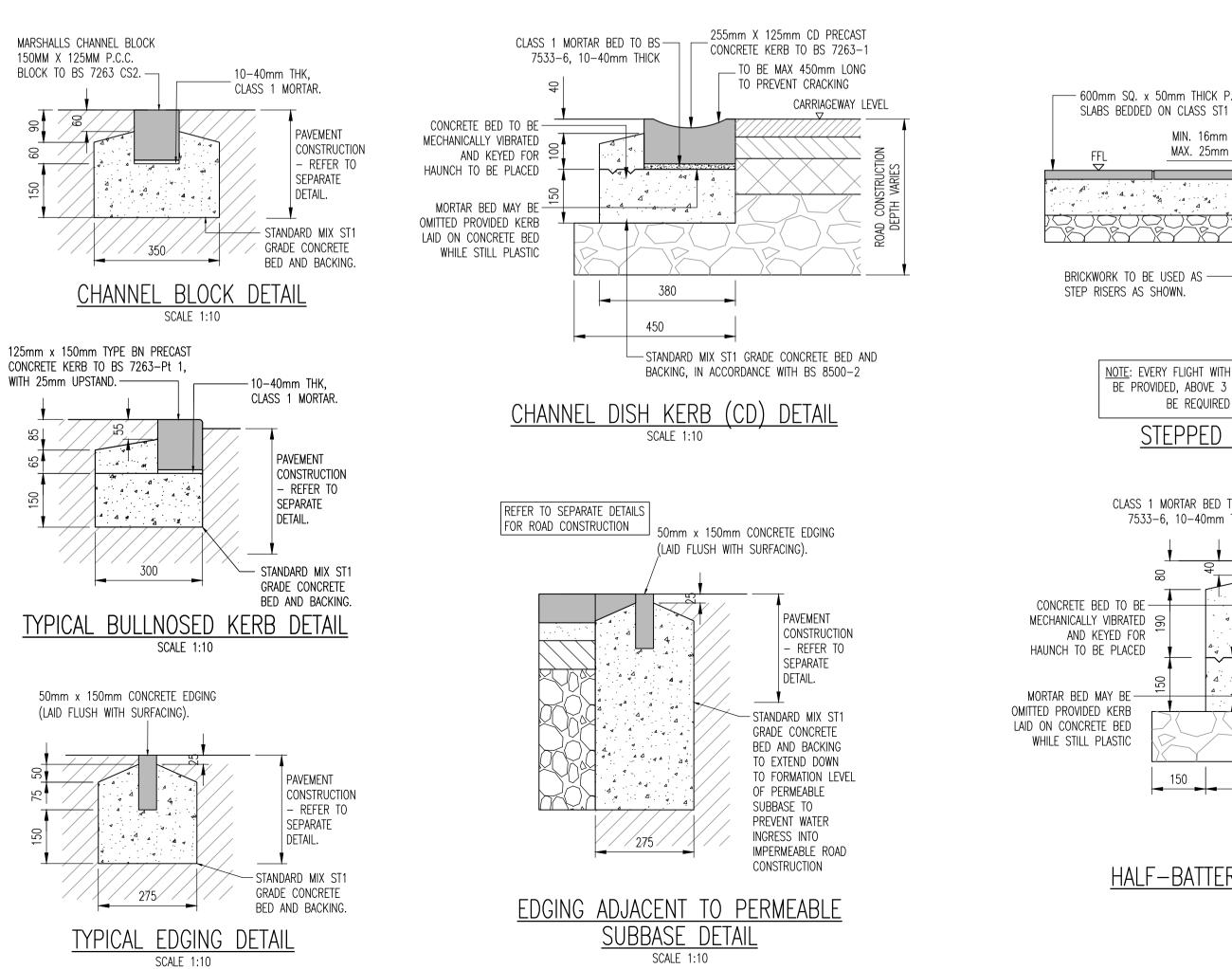
6. IF THE BINDER COURSE IS SUBJECTED TO AN EXTENSIVE PERIOD OF TRAFFICKING BEFORE THE SURFACE COURSE IS APPLIED, A RECIPE MIXTURE CONTAINING A HIGHER BITUMEN CONTENT WILL BE MORE DURABLE/RESISTANT TO FRETTING/RAVELLING UNDER TRAFFIC.

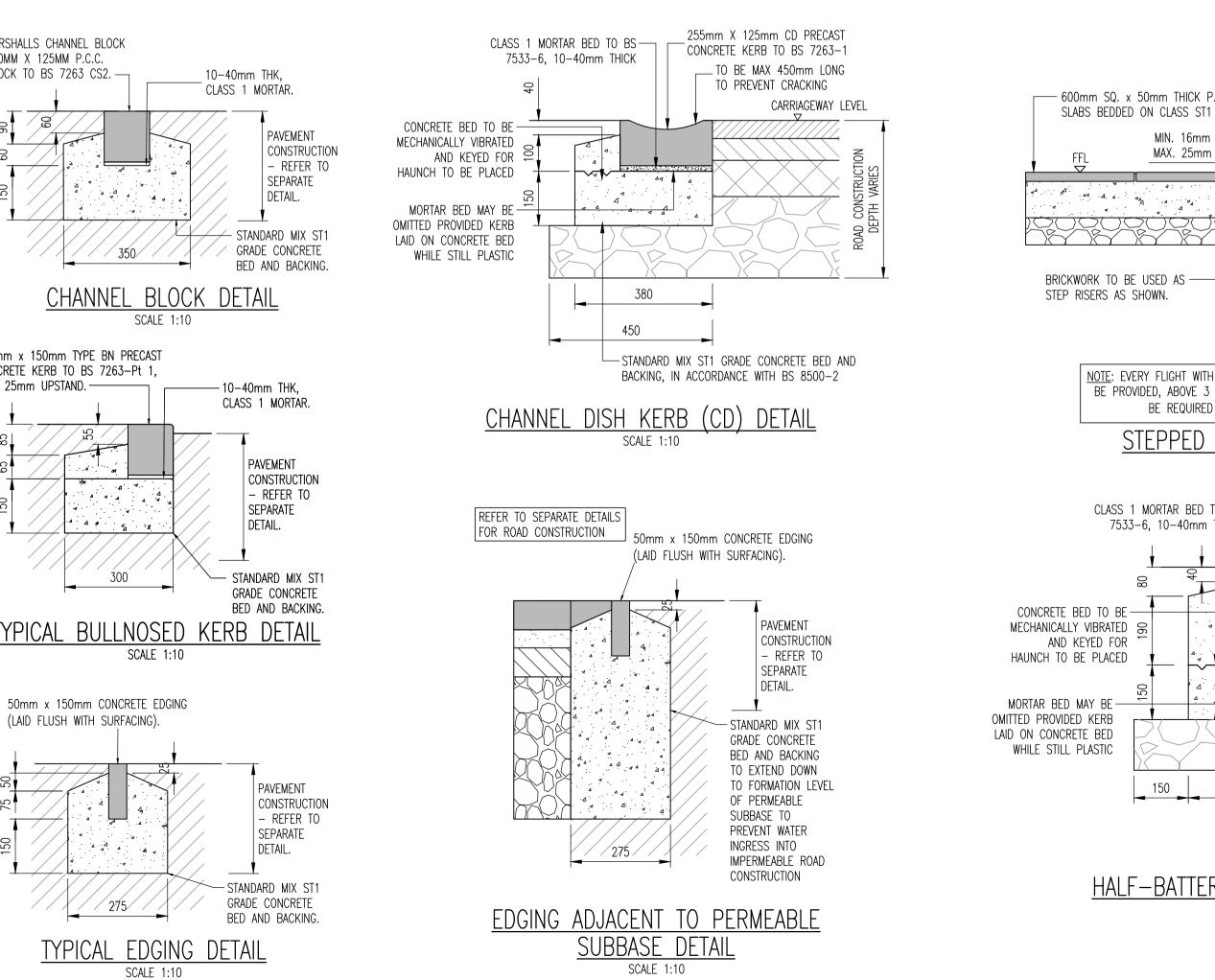
7. WHERE LAID TO EITHER A 90 OR 45 DEGREE HERRINGBONE PATTERN, THE EDGE PERIMETER SHOULD BE LAID WITH ONE SINGLE ROW OF STRETCHER BOND SET PARALLEL TO THE EDGE RESTRAINT. WHERE BLOCK PAVERS ARE LAID ABUTTING DRAINAGE CHANNELS, GULLY GRATES, ETC. THE UPPER SURFACE OF THE BLOCK PAVERS SHOULD BE SET 3–6MM ABOVE THE GRATING. MANUFACTURER'S DECLARED VALUE MARKINGS W3 AND S4 ARE ACCEPTABLE. WHERE W3 IS 1.0KG/M2 OR LESS AND S4 IS 45 OR MORE BASED ON 'C SCALE UNIT' (FOR ABRASION, CLASS A2 = MAXIMUM RESULT IS 23MM, CLASS A1 = NO PERFORMANCE DETERMINED).

8. A 38MM THICKNESS OF GRADED 15/20MM UNBOUND AGGREGATE TO BS EN 13242 (GRAVEL), WELL ROLLED AND COMPACTED, SHOULD BE USED.









Ingent Consulting Engineers LTD. Head office/Registered office:Unit 10 Brightwell Barns, Waldringfield Road, Suffolk, IP10 0BJ, Tel: 01473 598038. Registered No: 9120483

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9. REFERENCE TO CLAUSES ARE IN RELATION TO THE RELEVANT EUROPEAN AND/OR BRITISH STANDARDS.

10. ASPHALT CONTRACTORS SHOULD BE CERTIFIED IN ACCORDANCE WITH THE NATIONAL HIGHWAY SECTOR SCHEMES FOR QUALITY MANAGEMENT IN HIGHWAY WORKS - SCHEME 16.

(NHBC 2023 TABLE 3).

<u> </u>	<u>) IADLE JJ.</u>	
	<u>CBR_VALUES</u>	MINIMUM THICH (CONSOLIDATED M.C.H.W. VOL.
	LESS THAN 2%	N/A – SUBGR (2)
	2%-3%	325mm
	3%-5%	250mm
	5%-7%	150mm
	7%-20%	100mm

<u>NOTES</u>

REQUIREMENT R5.

2. SPECIALIST ADVICE SHOULD BE SORT TO IMPROVE THE SUBGRADE.

10–20mm THICK, CLASS 1 MORTAR (TO CLAUSE 2404).

215mm THICK CLASS B ENGINEERING BRICKWORK TO BE LAID IN ENGLISH BOND, MIN 3 TO MAX 5 COURSES.

PRECAST CONCRETE GULLY POT TO BS 5911-PART 6.

