

1.2 SUB-BASE

Sub-base shall conform with Clause 8.1 and shall be Type 1. A minimum in-situ CBR value of 20% will be required on all roads except for Development Roads intended to serve heavier traffic categories (i.e. loading in excess of 2 m.s.a.) where the in-situ CBR value should be at least 30%. CBR values shall be determined by Plate Bearing Tests in accordance with Clause 8.2.

For carriageways and footways, not more than one in ten field dry density determination, as detailed in BS 1377:Part 9, (clause 2.2) shall be less than 90% of the maximum dry density for that particular sub-base as determined by the vibrating hammer test in BS 1377: Part 4 (Clause 3.7).

1.3 BASECOURSE

Basecourse materials shall be 20mm size Dense Basecourse to Clause 9.1 and shall be laid in a single layer or combination of layers not less than 50mm in thickness nor greater than 110mm in thickness. Compaction must be in accordance with Clause 7.2 to a void content within the range 2%-8% and all layers must be bonded together.

1.4 WEARING COURSE

For Charts 1 and 2 the Wearing Course shall be 40mm of 10mm size Close Graded Wearing Course to Clause 7.3. It must be compacted in accordance with Clause 7.2 to a void content within the range 2%-10%.

For Charts 4 and 5 the Wearing Course must be 40mm of Hot Rolled Asphalt to Clause 9.5 to a void content within the range 2%-6%.

The Wearing Course must be bonded to the Basecourse.

1.5 FOOTWAY CONSTRUCTION

This shall comprise:-

100mm of Type 1 sub-base to Clause 1.2

50mm of 20mm size Dense Basecourse to Clause 9.1 compacted to a void content within the range 2%-10%.

25mm of 6mm size Dense Wearing Course to Clause 9.4 compacted to a void content within the range 2%-10%.

The Wearing Course must be bonded to the Basecourse.

1.6 VEHICLE ACCESS CROSSINGS

(A) Light Duty (Domestic) crossings

150mm of Type 1 sub-base to Clause 1.2. (NB where the CBR value of the sub-grade is below 2% an approved geosynthetic layer to Clause 6.7 will be required to be placed on the sub-grade). On certain sites the depth of topsoil may exceed 275mm. On such sites topsoil containing organic matter, roots, etc. shall be removed and replaced with Type 1 sub-base in accordance with Clause 1.2.

100mm of 20mm size Dense Macadam Basecourse to Clause 9.1 compacted to a void content within the range 2%-10%.

25mm of 6mm size Dense Macadam Wearing Course to Clause 9.4 compacted to a void content within the range 2%-10%.

The joint between the access crossing and the carriageway shall be formed with 125mm x 150mm precast concrete kerbs on a 150mm x 380mm base of ST3 (15N/mm²) concrete (approx 1 cement:2 sand:4 aggregate by volume mix). A 125mm x 150mm x 225mm taper kerb will be required on each side of the crossing along the carriageway edge except where there is no adjacent carriageway kerbing.

The highway boundary shall be delineated across the access crossing with 50mm x 150mm square cut precast concrete edging on a 75mm x 330mm base of ST3 (15N/mm²) concrete, and where there is no footway the edges of the access crossing shall also be delineated with the same edging and base.

(B) Heavy Duty Vehicle Access Crossings

The construction and thicknesses shall be the same as the adjacent carriageway with the proviso that in all cases the wearing course shall be hot rolled asphalt to Clause 1.4. Radii kerbing shall be used each side of the crossing, dropped at the point of intersection with adjacent footways and tactile paving shall be provided each side when required (see Drawing).

Channel blocks, not dropped kerbs shall be used at the front of these crossings. Channel blocks shall be installed at the rear of such crossings unless alternative restraint is available.

(C) Small Block Pavers

Small unit paver construction will be permitted for access crossings only when the adjoining footway is of that construction type. The materials utilised and thicknesses employed in the crossings shall be the same as the adjoining carriageway.

1.7 WAITING BAY OR LAYBY CONSTRUCTION

Construction shall normally be as for the adjoining carriageway.

1.8 TACTILE CROSSINGS FOR PEDESTRIANS

Tactile crossings shall be provided at all road junctions where a footway is provided. Such facilities shall be in accordance with current Department of Transport guidelines.

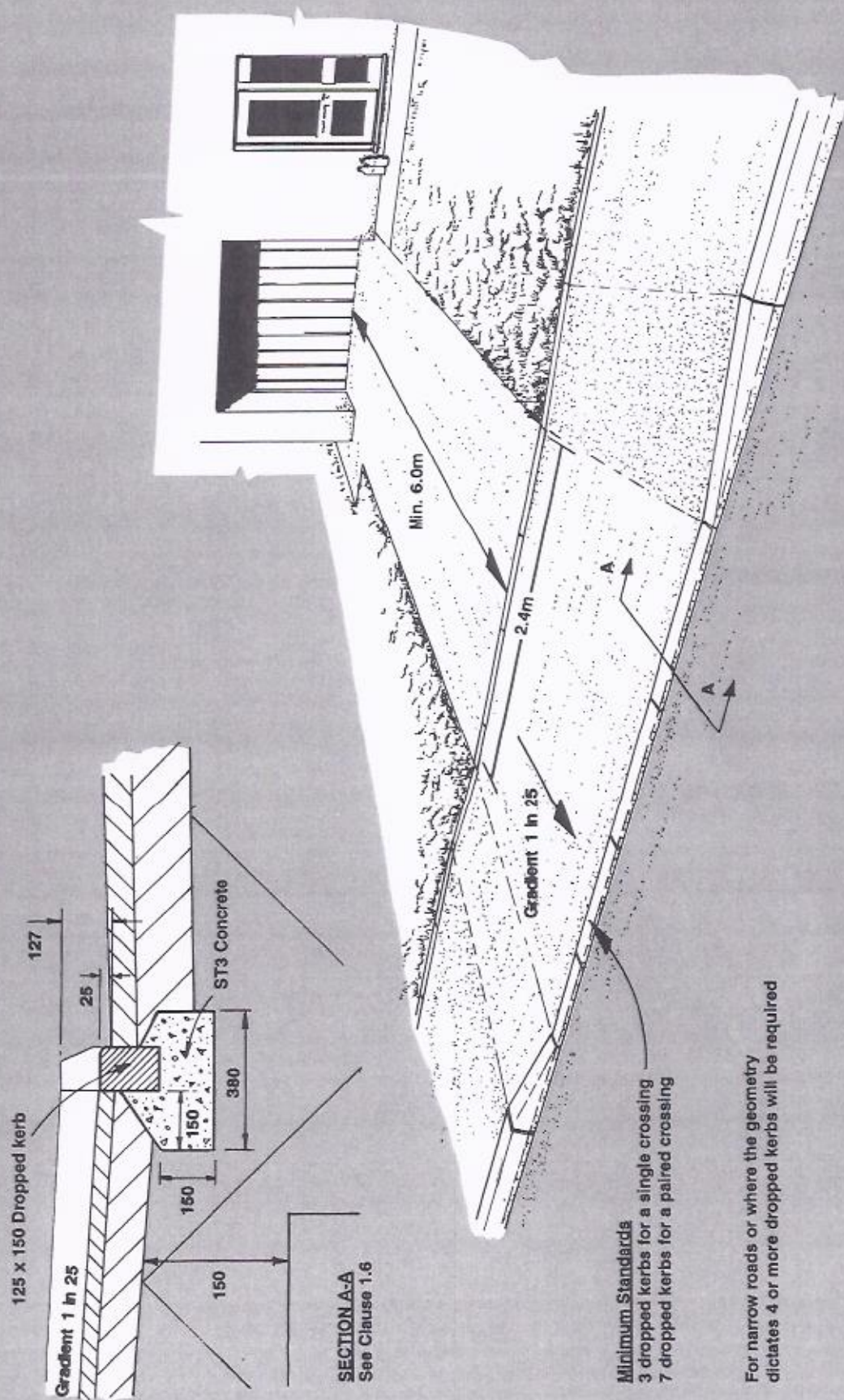
1.9 SMALL BLOCK PAVERS

Concrete blocks and clay pavers shall comply with Clause 10.2 and 10.3. They shall be laid in accordance with the requirements of BS 7533: Part 3.

Herringbone bond pattern is required for all block paved areas. Only rectangular shaped blocks will be permitted.

The layout of blocks/pavers and details at edges, manholes, gullies and other openings shall be as recommended by the supplier and agreed with the Highway Authority in advance of laying.

The developer may traffic the carriageway after the placement of the bituminous basecourse across the full width of the carriageway provided that the thickness of the basecourse is in accordance with the relevant Construction Chart.



DOMESTIC VEHICLE CROSSING (REF. CLAUSE 1.6(A))