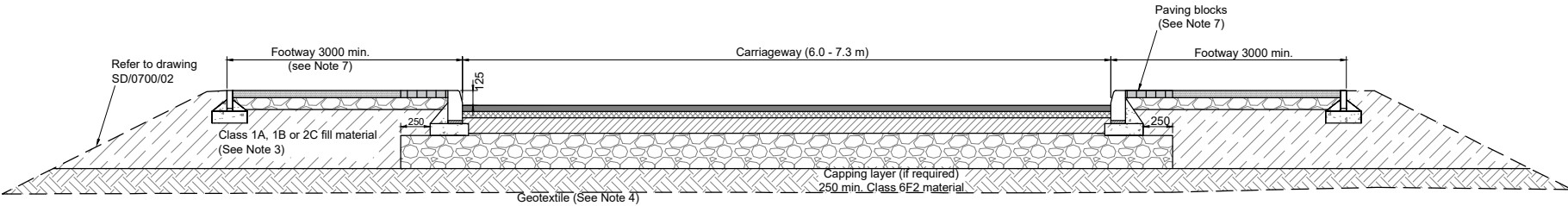










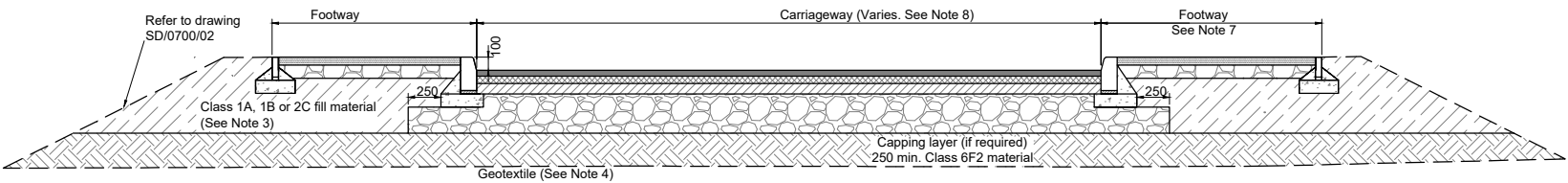
- Notes**
- © Crown Copyright and database rights 2023 AC0000849432
- All dimensions are in millimeters unless otherwise stated.
 - The foundation thickness (combined capping and sub-base layer) shown is based on an assumed minimum sub-grade CBR of 3% and would need to be revised for CBR values lower or higher than this value. Water table levels will also be considered in design. CBR to be tested on formation at 25m centres along centreline of all roads. Any variation to be reported to The Highland Council. A minimum construction depth of 450mm of non-frost susceptible materials should be used in the road construction, unless agreed otherwise with the Council.
 - Class 2C materials can be highly moisture sensitive and it is solely the Contractor's responsibility to maintain these materials in an acceptable moisture condition following placing and compacting in general accordance with SHW CI 602.1 and BS1377: part 2. MCV values lower 2, upper 13.
 - Where a Geotextile is used as a separator under fill, it shall be laid on top of the subgrade. Geotextile to be manufactured from synthetic fibres and have a minimum life expectancy of 40 years. The geotextile shall sustain a tensile load of not less than 10 kN/m and have a minimum axial strain of 20% at failure. It shall also have a minimum water flow at right angles to its principal plane in either direction of 50 litres/sqm/sec.
 - Pre-Coated Chippings for HRA Surface Course to SHW Clause 915. Coated chippings to be 14/20mm as per BS EN13043 Table 9 C100/0 requirement. Minimum PSV 60, Fl₂₀, AAV 14 max.
 - Bond Coats shall be applied prior to the laying of a new asphalt layer on any bound substrate, complying with BS EN 13808 Table 4 Class 4 and in accordance with Clauses 903 and 920, and BS 594987.
 - For shared footway/cycle track, minimum footway width 3.0m, with first 0.6m next to carriageway made up of 200x100x80 paving blocks. See Drawing SD/1100/05 for details of paving blocks. For footway construction, kerbing haunching and foundations, see The Highland Council's Standard Detail Drawings Series 1100.
 - Carriageway widths for main residential street: 5.5-7.0m, minor residential streets: width to be suitable for refuse vehicle 2.9m wide and 8.6m long. Refer to table 5.1 of *The Highland Council's road guidelines for new developments* for geometric requirements for urban roads.

- | | |
|--|---|
|  50mm Hot Rolled Asphalt surface course to SHW CI 911 HRA 35/14 F surf 40/60 PSV 55, AAV 14 |  130mm Dense Asphalt Concrete base AC32 dense base 40/60 DES Flakiness Fl ₃₀ LA ₃₀ to SHW CI 929 |
|  55mm Dense Asphalt Concrete binder course AC20 dense bin 40/60 DES Flakiness Fl ₃₀ , LA ₃₀ to SHW CI 929 |  350mm Granular Sub-base material Type 1 to SHW CI 803. Minimum CBR 30% |



Local distributor cross section

- | | |
|---|---|
| Main residential street road construction | Minor residential street and cul-de-sac road construction |
|  45mm Hot Rolled Asphalt surface course to SHW CI 911 HRA 35/14 F surf 40/60 PSV 55, AAV 14 |  45mm Hot Rolled Asphalt surface course to SHW CI 911 HRA 35/14 F surf 40/60 PSV 55, AAV 14 |
|  55mm Dense Asphalt Concrete binder course AC20 dense bin 40/60 DES Flakiness Fl ₃₀ , LA ₃₀ to SHW CI 929 |  55mm Dense Asphalt Concrete binder course AC20 dense bin 40/60 DES Flakiness Fl ₃₀ , LA ₃₀ to SHW CI 929 |
|  80mm Dense Asphalt Concrete base AC32 dense base 40/60 DES Flakiness Fl ₃₀ LA ₃₀ to SHW CI 929 |  65mm Dense Asphalt Concrete base AC32 dense base 40/60 DES Flakiness Fl ₃₀ LA ₃₀ to SHW CI 929 |
|  350mm Granular Sub-base material Type 1 to SHW CI 803. Minimum CBR 30% |  300mm Granular Sub-base material Type 1 to SHW CI 803. Minimum CBR 30% |



Residential roads cross section

Revision Details	Drawn by	Check by	Check Date	Surf's
------------------	----------	----------	------------	--------



Project	Standard details. Series 0700: Pavements			
Title	Local distributor and residential roads: typical cross sections			
Scale (at A4)	Not to scale			
Drawn	JC	Date	07/2024	
Checked	CHK	Date	07/2024	
Drawing No.	SD/0700/01	Rev.	1	