



APPENDIX 3.7 - DESIGN STANDARDS AND DEPARTURES

(New) Design Standards and Departures Appendix

A29 Re-alignment Scheme

Chapter 3 Appendix 3.7 - Design Standards and Departures

Design Element	Standard	Departure
Highway Alignment	<p><u>Design Manual for Roads and Bridges (DMRB)</u> CD109 - Highway Link Design CD116 - Geometric Design of Roundabouts. CD127 - Cross-Sections and Headroom CD123 - Geometric Design of At-grade Priority and Signal Controlled Junction. CD195 - Designing for Cycle Traffic</p> <p><u>Department for Transport (DfT) Local Transport Note</u> Design of Pedestrian Crossings LTN 2/95, Cycling Infrastructure Design LTN 2/08 Shared Use Routes for Pedestrians and Cyclists LTN 1/12 ; WSCC design requirements and standard details.</p>	<p>Departure no.1 – Horizontal Geometry Ch 62 – Ch271 for the proposed balanced camber and no transitions curves. CD 109 Clause 2.9 and 4.12</p> <p>Departure no.2 - Horizontal Geometry Ch 556 – Ch1051 for the proposed balanced camber and no transitions curves. CD 109 Clause 2.9 and 4.12</p> <p>Departure no. 3 - Fontwell Avenue Roundabout Forward Visibility. CD 116 Clause 3.40 note 2 A SSD of 67m on the northern arm approach instead of the desirable minimum SSD of 90m.</p>
Drainage	<p><u>Design Manual for Roads and Bridges (DMRB)</u> CD 526 Spacing of Road Gullies Revision 1 HD 45/09 Road Drainage and the Water Environment CD521 Hydraulic Design of Road-Edge Surface Water Channels</p> <p><u>British Standards</u> BS EN 752:2017 Drain and sewer systems outside buildings BS EN 1610:2015 Construction and testing of drains and sewers BS EN 124:2015 Gully Tops and Manhole Tops for Vehicular and Pedestrian Areas – Design Requirements, Type Testing, Marking, Quality Control</p> <p>CIRIA Report C753 – The SuDS Manual Sewers for Adoption 7th Edition (where applicable)</p>	

	<p>WSCC: Highway Drain Criteria WSCC Section S278/38 Highway Agreement Standard Details West Sussex LLFA Policy for the Management of Surface Water Marshalls Linear-Drainage-Design-Guide-13593</p>	
Pavement and Footways	<p><u>Design Manual for Roads and Bridges (DMRB)</u> HD 26/06 – Pavement Design HD 24/06 - Traffic Assessment HD 28/15 – Skid Resistance HD 29/08 – Data for Pavement Assessment CD 225 – Design for new pavement foundations IAN 102/07 - The introduction of BS EN standards for bituminous mixtures IAN 195/16 – Cycle Traffic and the Strategic Road Network HD 36/06 – Surfacing Materials for New and Maintenance Construction HD 39/16 – Footway and Cycleway Design</p> <p><u>British Standards</u> BS EN 13108 – Bituminous mixtures. Material specifications. Asphalt Concrete BS594987 – Asphalt for roads and other paved areas. Specification for transport, laying, compaction and product type testing protocols</p> <p>TFL-Guidance on the use of Tactile Paving Surfaces</p>	
Traffic Signs and Road Markings	<p>The Traffic Signs Regulations and General Directions 2016 Local Authority design requirements (WSCC standards) Traffic Signs Manual</p> <p><u>Department for Transport (DfT) Local Transport Note</u> LTN 1/94 Design & Use of Directional Traffic Signs</p>	