



# **Development Design Guide**

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## **Appendix 4 – Highway Design Guidance – Residential**

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## Appendix 4 Highway Design Guidance – Residential

We recognise that due to conditions at a site it may sometimes be difficult to comply with the guidance, particularly on urban and brownfield sites. We also recognise that the

Government and planning authorities are encouraging new, innovative residential layouts that reflect local character while providing for more houses.

A design should create an environment that is safe for all road users and in which people are encouraged to walk, cycle and use public transport and feel safe in doing so. We believe that such an approach, coupled with the flexibility that our guidance allows, already reflects many key themes of the Manual for Streets 2 (MfS2).

This guidance will reinforce residential development layouts that recognise that roads have a wider role to play in creating a sense of place and community as opposed to simply having a functional transport role.

Where this cannot be achieved by development layouts that are explicitly covered by this guidance, the Local Highway and Lead Local Flood Authority are prepared to be flexible.

Where development proposals however do not align with either the principles or guidance set out in this document it is likely that we will seek to resist and even may recommend refusal on those proposals in the interest of the users of the highway network and its primary role in providing safe and effective transport for all.

<b>Road Category</b>	<b>Primary Road</b>	<b>Secondary Road</b>	<b>Shared Surface Road</b>	<b>Lane</b>	<b>Private Shared Driveway &amp; Courtyards</b>
<b>Number of dwellings served</b>	100-300	Up to 100	Maximum 20 (max 30 if loop)	Maximum 25	Maximum 5 (not adoptable)
<b>Target Maximum Speed (mph):</b>	20/30mph	20/30mph	15/25mph	10mph	10mph
<b>Carriageway Width (m)</b>	5.5m	5.5m (4.8<50 dwellings)	Nominal 4.8m	4.8 mfor first 15 then 3.7m (passing place every 40m)	4.1m for 10m
<b>On lengths without access (m) plus widening where centreline Radius (m) &lt;</b>	5.5m	4.1m	4.1m for max 15m	Not Applicable	Not Applicable
	60m	60m	30m	Not Applicable	Not Applicable
<b>Minimum Centreline radius (m)</b>	30m	15m	12.5m	12.5	Not Specified
<b>Maximum Gradient</b>	1 in 10	1 in 10	1 in 12.5	1 in 12.5	Not Specified
<b>Except at junctions onto major road</b>	1 in 20 for 15m	1 in 20 for 15m	1 in 20 for 10m	1 in 20 for 5m	1 in 12.5 for 10m
<b>Maximum forward visibility (m)<sub>1</sub></b>	43m	43m	25m	10m (and passing places to be indivisible)	Not Specified
<b>Maximum Spacing of Junctions (m):</b>					
<b>Same side</b>	43m	40m	40m	Not Applicable ( No Access onto a exiting Radii or where access will cause confusion )	Not Applicable ( No Access onto a exiting Radii or where access will cause confusion )
<b>Opposite side</b>	25m	20m	20m	Not Applicable	Not Applicable

<b>Road Category</b>	<b>Primary Road</b>	<b>Secondary Road</b>	<b>Shared Surface Road</b>	<b>Lane</b>	<b>Private Shared Driveway &amp; Courtyards</b>
<b>Visibility Splay (m) at Junction<sub>2</sub>:</b> <b>Onto Internal Roads</b> <b>Onto External Roads</b>	2.4m x 43m DMRB if > 37 mph. MfS < 37 mph	2.4m x 43m DMRB if > 37 mph. MfS < 37 mph	2.4m x 43m DMRB if > 37 mph. MfS < 37 mph	2.4m x 43m DMRB if > 37 mph. MfS < 37 mph	2.4m x 43m DMRB if > 37 mph. MfS < 37 mph
<b>Kerb Radius (m) at Junctions:</b> <b>Onto LDR or higher category</b> <b>Onto Major Access Road</b> <b>Onto Minor Access Road</b>	10.5m 6m Not Applicable	10.5m 6m 6m	Not Applicable 6.0m, or 4.5m with shoulders 6.0m, or 4.5m with shoulders	Not Applicable 45 <sup>o</sup> footway crossing with 9.5m kerbing 45 <sup>o</sup> footway crossing with 9.5m kerbing	Not Applicable 45 <sup>o</sup> footway crossing with 9.5m kerbing 45 <sup>o</sup> footway crossing with 9.5m kerbing
<b>Footway Width (m)</b>	2 both sides	2 (normally) both sides	Not Applicable	Not Applicable	Not Applicable
<b>Verge Width (m)</b>	2.0 service strip & 0.5 margin	2.0 service strip & 0.5 margin	2.0 service strip & 0.5 margin	N/A	Not Applicable
<b>Normal spacing (m) of speed Restraints for Target Maximum Speed</b>	80m for 25mph 60m for 20mph	60m	40m	Not Required	Not Required
<b>Turning head type:</b> <b>Length to turning head over 60m for all lengths</b> <b>Length to turning head 35-60m</b> <b>Length to turning head 0-35m</b>	Pantehnicon Pantehnicon	Refuse Vehicle Refuse Vehicle	Refuse Vehicle Refuse Vehicle	Not Applicable Not Required	Refuse Vehicle Not Required