3. For existing roads, an empirical relationship has been derived which provides estimates of VISI given in bendiness and verge width (applicable up to VISI = 720m) i.e.

$$\text{Log}_{10}\ \text{VISI} = 2.46 + \text{VW}/25 - \text{B}/400$$

where:

VW = Average verge width (averaged for both sides of the road)

B = Bendiness (Degree per km - minimum Length of about 2 km)

Single Carriageways:

$$\text{Ac} = 12 - \text{VISI}/60 + 2\text{B}/45$$

where:

B = Bendiness Degrees/km

VISI = Harmonic Mean Visibility m (see Annex A).

	Carriageway details							A96- Side Road Design Speed (TD9 method)							Inverness to Nairn Comparison
Road Name	**Carriageway x-section (m) (Used for LC)**	**Length (km)**	**Total Bendiness (Degrees)**	**Total no. of accesses**	**Total no. of accesses per Km**	**Design Section Split (S1 - S4)**		**VW (Average Verge Width) m**	**B- Bendiness (Degrees/Km)**	**VISI- Mean Visibility (m)**	**AC-Alignment Constraint**	**LC - Layout Constraint** (TD9/93 Table 1)	**Design Speed** (TD9/93 Figure 1) KPH		**Design Speed**(RTGND-Table 5.2 Geometric requirements for rural road links) KPH
	Designer to input							*Designer to input*		*Auto populates*		*Designer to input*			*Designer to input*
C3E	6.0m (S2)	2	53	6	3	S4		2	26.5	297.68	8.22	26	**100B**		**60**
B9010	6.0m (S2)	2.3	110	13	6	S4		1.8	47.8	258.48	9.82	26	**100B**		**85**
C2E	6.0m (S2)	2.2	161	10	5	S4		2.5	73.2	238.26	11.28	26	**100B**		**60**
A941	7.3m(S2)	2.3	79	14	6	S4		3	34.3	311.98	8.33	23	**100A**		**DMRB**
B9103	6.0m (S2)	4.8	383	12	3	S4		1.5	79.8	209.18	12.06	28	**100B**		**85**
C20E	6.0m (S2)	2	93	12	6	S4		2	46.5	265.31	9.64	26	**100B**		**60**
U14E	6.0m (S2)	2.1	358	18	9	S4		1.5	170.5	124.11	17.51	31	**70A**		**60**
U19E	6.0m (S2)	3.45	143	8	2	S4		1.5	41.4	260.84	9.49	28	**100B**		**60**
U22E	7.3m(S2)	1	181	5	5	S4		2	181.0	122.32	18.01	23	**85A**		**60**
U21E	6.0m (S2)	1.8	171	12	7	S4		1.5	95.0	191.65	13.03	28	**85B**		**60**
B9015	6.0m (S2)	3.5	153	6	2	S4		2.5	43.7	282.30	9.24	26	**100A**		**85**
U129E	6.0m (S2)	2	471	16	8	S4		1	235.5	81.52	21.11	28	**85B**		**60**
C1E	6.0m (S2)	3.6	240	13	4	S4		1	66.7	215.44	11.37	28	**100B**		**60**
A96T	10.0m (WS2)	2.25	115	6	3	S4		6	51.1	373.44	8.05	17	**100A**		**DMRB**