

RELAXATION DETAILS								
Relaxation Ref.	Rev	Location	Chainage	Design Speed	Relaxation Type	Required Standard	Standard Provided	Steps below Desirable Minimum
A24-SR-R101	0	Mainline	Ch 0+000 - Ch 0+267	100A	Horizontal Curve	720m	510m	1
A24-SR-R102	0	Mainline	Ch 0+267 - Ch 0+380	100A	Transition length	Based on $q=0.3\text{m}/\text{sec}^3$ 140m ³	$q=0.38\text{m}/\text{sec}^3$ 110m	-
A24-SR-R201	0	Ballylone Road	Ch 0+028 - Ch0+058	85A	Gradient	6%	7%	-
A24-SR-R202	0	Crossgar Road	Ch 0+290	60B	Visibility	'X' distance = 9.0m	'X' distance = 4.5m	-
A24-SR-R203	0	Crossgar Road	Ch 0+380	60B	Visibility	'X' distance = 9.0m	'X' distance = 4.5m	-
A24-SR-R204	0	Crossgar Road	Ch 0+150	60B	Ghost island lane width	3.5m	3.0m	-
A24-SR-R205	0	Crossgar Road	Ch 0+065	60B	Ghost island lane width	3.5m	3.0m	-
A24-SR-R206	0	Crossgar Road	Ch 0-020	60B	Ghost island lane width	3.5m	3.0m	-
A24-SR-R207	0	Western Compact Connector Link Road	Northbound Ch 0+090 – Ch 0+105 Southbound Ch 0+175-Ch0+160	30kph	Visibility	Min. SSD = 70m	Min. SSD - 50m Northbound 50m Southbound	1
A24-SR-R301	0	Belfast Road (North -Realigned)	Ch 0+000 - Ch 0+104	100A	Horizontal Curve	720m	600m	1
A24-SR-R302	0	Belfast Road (South -Realigned)	Ch 0+000 - Ch 0+140	100A	Horizontal Curve	720m	600m	1
A24-SR-R304	0	Saintfield Road	Ch0+030	100A	Ghost island lane width	3.5m	3.0m	-
A24-SR-R401	0	Drumaness Road (South Approach)	Ch 0+062 - Ch 0+132	100A	Transition length	Based on $q=0.3\text{m}/\text{sec}^3$ 140m	$q=0.6\text{m}/\text{sec}^3$ 70m	-

DEPARTURE DETAILS								
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A24-M-D001	0	Mainline	Ch 0+000 - Ch 3+100	100A	Overtaking Value	30%	21%	-
A24-SR-D101	0	Crossgar Road	Ch 0+000 - Ch 0+005	60B	Vertical Sag Curve	K=13	K=8	>1
A24-SR-D102	A	Crossgar Road	Ch 0+042 - Ch 0+109	60B	Vertical Crest Curve	K=17	K=6	>1
A24-SR-D103	A	Crossgar Road	Ch 0+371 - Ch 0+401	60B	Vertical Crest Curve	K=17	K=5	>1
A24-SR-D104	A	Crossgar Road Eastbound	Ch 0+000 - Ch 0+010 Ch 0+010 - Ch 0+060	60B	Visibility	90m	70m (Ch 0+000 - Ch 0+010) 50m (Ch 0+010 - Ch 0+060)	1 (Ch 0+000 - Ch 0+010) 2 (Ch 0+010 - Ch 0+060)
A24-SR-D105	A	Crossgar Road Westbound	Ch 0+145 - Ch 0+165 Ch 0+090 - Ch 0+140	60B	Visibility	90m	70m (Ch 0+145- Ch 0+165) 50m (Ch 0+090 - Ch 0+140)	1 (Ch 0+145- Ch 0+165) 2 (Ch 0+090 - Ch 0+140)
A24-SR-D106	A	Crossgar Road Eastbound	Ch 0+310 - Ch 0+320 Ch 0+320 - Ch 0+370 Ch 0+370 - Ch 0+380	60B	Visibility	90m	70m (Ch 0+310 - Ch 0+320) 50m (Ch 0+320 - Ch 0+370) 70m (Ch 0+370 - Ch 0+380)	1 (Ch 0+310 - Ch 0+320) 2 (Ch 0+320 - Ch 0+370) 1 (Ch 0+370 - Ch 0+380)
A24-SR-D111	A	Crossgar Road	Ch 0+070 - Ch 0+154	60B	Superelevation	5%	2%	-
A24-SR-D113	A	Crossgar Road	Ch0+120	60B	Visibility	90m	50m	2
A24-SR-D114	A	Crossgar Road	Ch0+120	60B	Visibility	90m	70m to RHS 50m to LHS	1 2
A24-SR-D116	A	Crossgar Road	Ch 0+015	60B	Visibility	90m	70m to LHS	1

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A24-SR-D117	A	Crossgar Road	Ch 0+015	60B	Visibility	90m	60m	2
A24-SR-D118	A	Crossgar Road	Ch 0+050	60B	Visibility	'X' = 2.4m 'Y' = 90m	'X' = 1.5m 'Y' = 50m	2
A24-SR-D119	A	Crossgar Road	Ch 0+050	60B	Visibility	90m	50m	2
A24-SR-D120	A	Crossgar Road	Ch 0+070	60B	Visibility	X' = 2.4m	X' = 1.5m	-
A24-SR-D121	A	Crossgar Road	Ch 0+070	60B	Visibility	90m	50m	2
A24-SR-D122	A	Crossgar Road	Ch 0+100	60B	Visibility	90m	50m	2
A24-SR-D123	A	Crossgar Road	Ch 0+100	60B	Visibility	90m	50m	2
A24-SR-D124	A	Crossgar Road	Ch 0+150	60B	Visibility	90m	50m	2
A24-SR-D126	A	Crossgar Road	Ch 0+050	60B	Visibility	90m	55m	2
A24-SR-D127	0	Crossgar Road	Ch 0+040	60B	Location of adjacent access	90m	70m	-
A24-SR-D128	0	Crossgar Road	Ch 0+150	60B	Deceleration length	25m	0m	-
A24-SR-D201	A	Ballylone Road	Ch 0+046 - Ch 0+094	60B	Horizontal Curve	510m	90m	3
A24-SR-D202	A	Ballylone Road	Ch 0+000 - Ch 0+060	60B	Vertical Sag Curve	K=20	K=5	3
A24-SR-D206	A	Eastern Compact Connector	Ch0+090	30	Visibility	'X' = 9.0m 'Y' = 70m	'X' = 4.5m 'Y' = 52m	1

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A24-SR-D208	A	Ballylone Road	Ch 0+080	60B	Visibility	90m	55m 'Y' distance to left	2
A24-SR-D209	A	Ballylone Road	Ch 0+040	60B	Visibility	90m	70m 'Y' to LHS 55m 'Y' to RHS	1 2
A24-SR-D213	A	Ballylone Road	Southbound Ch 0+040	85A	Visibility	160m	120m	1
A24-SR-D214	0	Ballylone Road	Ch 0+174 – Ch 0+221	85A	Horizontal Curve	510m 7%	50m 2.5%	5 -
A24-SR-D301	A	Saintfield Road	Ch 0+049 - Ch 0+58	100A	Horizontal Curve	720m	90m	>2
A24-SR-D302	A	Saintfield Road	Ch 0+061 - Ch 0+112	100A	Vertical Crest Curve	K=100	K=17	3
A24-SR-D303	A	Saintfield Road	Ch 0+000 - Ch 0+112	100A	Visibility	215m	30m (Ch 0+000 – Ch 0+030) 50m (Ch 0+030 – Ch 0+112)	>5
A24-SR-D304	A	Saintfield Road	Ch 0+000 - Ch 0+120	100A	Visibility	215m	70m	>2
A24-SR-D307	0	Belfast Road	Ch 0+100	100A	Visibility	215m	'X' = 4.5m 90m 'Y' Distance to right	3
A24-SR-D308	A	Belfast Road	Ch 0+100	100A	Visibility	215m	90m	3
A24-SR-D309	0	Belfast Road	Ch 0+110	100A	Visibility	215m	'X' = 4.5m 90m 'Y' Distance to left	3
A24-SR-D310	0	Belfast Road	Ch 0+110	100A	Visibility	215m	90m	3
A24-SR-D311	0	Belfast Road Ch 0+170	Ch 0+170	100A	Visibility	215m	'X' = 4.5m 160m 'Y' Distance to right Access Visibility = 70m (Ch 0+100)	1

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A24-SR-D312	0	Belfast Road	Ch 0+000 - Ch 0+170	100A	Visibility	215m	160m	1
A24-SR-D313	A	Saintfield Road	Ch 0+033	100A	Visibility	215m	33m 'Y' Distance to LHS 80m 'Y' Distance to RHS	>5 to LHS 4 steps to RHS
A24-SR-D314	0	Saintfield Road	Ch 0+033	100A	Visibility	215m	33m	>5
A24-SR-D315	0	Saintfield Road	Ch 0+030	100A	Highway Geometry	80m	0m	-
A24-SR-D316	0	Saintfield Road	Ch 0+030	100A	Highway Geometry	25m	5m	-
A24-SR-D401	A	Downpatrick Road	Ch 0+029 - Ch 0+112	85A	Horizontal Curve	510m 5%	235m 2.5%	3 -
A24-SR-D402	A	Downpatrick Road	Ch 0+000 - Ch 0+120	85A	Visibility	160m	120m (Ch 0+000 – Ch 0+0120)	1
A24-SR-D404	A	Drumaness Road (South)	Ch 0+132- Ch 0+153	100A	Horizontal Curve	720m 5%	510m 0%	1 -
A24-SR-D405	A	Drumaness Road (South)	Ch 0+066 - Ch 0+115	100A	Vertical Crest Curve	K=100	K=17	3
A24-SR-D406	0	Drumaness Road (South)	Ch 0+115 - Ch 0+153	100A	Vertical Sag Curve	K=26	K=13	3
A24-SR-D407	0	Drumaness Road (South)	Ch 0+000 - Ch 0+160	100A	Visibility	215m	160m	1
A24-SR-D410	A	Drumaness Road (North West)	Ch 0+000 - Ch 0+070	60B	Horizontal Curve	720m 5%	510m 0%	1 -
A24-SR-D414	A	Downpatrick Road	Ch 0+110	85A	Visibility	160m	110m	2

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A24-SR-D415	A	Downpatrick Road	Ch 0+110	85A	Visibility	160m	110m	2
A24-SR-D416	A	Drumaness Road (South)	Ch 0+000 - Ch 0+100	100B	Visibility	215m	90m	3
A24-SR-D417	A	Drumaness Road (South)	Ch 0+100	100B	Visibility	215m	'X' = 4.5m 90m 'Y' Distance to RHS 180m 'Y' Distance to LHS	3 steps to RHS 1 step to LHS
A24-SR-D418	A	Drumaness Road (South)	Ch 0+100 - Ch 0+220	100B	Visibility	215m	120m	2
A24-SR-D419	A	Drumaness Road (South)	Ch 0+180	100B	Visibility	215m	120m	2
A24-SR-D420	A	Drumaness Road (South)	Ch 0+020 - Ch 0+180	100B	Visibility	215m	160m	1
A24-SR-D421	A	Existing Crabtree Road	Existing Crabtree Road Ch 0+100	85B	Visibility	160m	'X' = 4.5m 90m 'Y' Distance to RHS 50m 'Y' Distance to LHS	2 steps to RHS 4 steps to LHS
A24-SR-D422	A	Existing Crabtree Road	Ch 0+102 - Ch 0+192	85B	Visibility	160m	90m	2
A24-SR-D423	A	Drumaness Road (North West)	Ch 0+039	60B	Visibility	90m	33m 'Y' Distance to LHS	2
A24-SR-D424	A	Drumaness Road (North West)	Ch 0+000 - Ch 0+039	60B	Visibility	90m	39m	>2
A24-SR-D426	0	Drumaness Road (North West)	Ch 0+085	60B	Visibility	90m	70m 'Y' Distance to RHS	1
A24-SR-D427	0	Drumaness Road (North West)	Ch 0+085	60B	Visibility	90m	70m	1

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A24-SR-D428	A	Crabtree Link Road	Ch 0+000 - Ch 0+062	70A	Horizontal Curve	255m 7%	127m 0%	3 -
A24-SR-D429	0	Crabtree Link Road	Ch 0+000 - Ch 0+062	60B	Visibility	90m	60m	2
A24-SR-D431	0	Downpatrick Road	Ch 0+029	85A	Horizontal Curve	200m	None Provided	-
A24-SR-D432	A	Downpatrick Road	Ch 0+150	85A	Visibility	160m	95m 'Y' Distance to LHS	2
A24-SR-D433	A	Downpatrick Road	Ch 0+030- Ch 0+150	85A	Visibility	160m	120m	1
A24-SR-D434	A	Drumaness Road (North West)	Ch0+030	60B	Highway Geometry	25m	0m	-
A24-SR-D436	A	Drumaness Road (North West)	Ch0+030	60B	Highway Geometry	3.5m	2.5m	-
A24-SR-D437	A	Drumaness Road (South)	Ch 0+060	100B	Visibility	215m	60m 'Y' Distance to LHS 120m 'Y' Distance to RHS	5 steps to LHS 2 steps to RHS
A24-SR-D438	A	Drumaness Road (South)	Ch 0+060	100B	Visibility	215m	60m (Ch 0+000 – Ch 0+060) 160m (Ch 0+060 – Ch 0+220)	5 1