

APPENDIX U

JUNCTION CAPACITY ASSESSMENTS

COTTEE

OLDLANDS FARM BUSINESS PARK - BOGNOR REGIS

PROPOSED SHRIPNEY ROAD (A29) / RELIEF ROAD / SITE ACCESS ROUNDAABOUT

ARCADY 6 ANALYSIS

Weekday AM Peak Hour

	Shripney Road (A29) south		Rowan Way		Shripney Road (A29) north		Steyning Way	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.564	1	0.277	0	0.253	0	0	0
2025 Base	0.647	2	0.327	1	0.297	0	0	0
2011 Base + Asda + Business Park (1,100sqm)	0.633	2	0.304	0	0.290	0	0.109	0
2025 Base + Asda +Business Park (19,500sqm)	0.649	2	0.404	1	0.346	1	0.161	0

Weekday PM Peak Hour

	Shripney Road (A29) south		Rowan Way		Shripney Road (A29) north		Steyning Way	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.523	1	0.349	1	0.474	1	0	0
2025 Base	0.608	2	0.420	1	0.579	1	0	0
2011 Base + Asda + Business Park (1,100sqm)	0.633	2	0.405	1	0.585	1	0.456	1
2025 Base + Asda +Business Park (19,500sqm)	0.776	3	0.510	1	0.737	3	0.813	4

Saturday Peak Hour

	Shripney Road (A29) south		Rowan Way		Shripney Road (A29) north		Steyning Way	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2025 Base + Asda +Business Park (19,500sqm)	0.744	3	0.497	1	0.739	3	0.475	1

RFC - Ratio of Flow to Capacity
Q - Number of Vehicles

COTTEE

OLDLANDS FARM BUSINESS PARK - BOGNOR REGIS

EXISTING ROWAN WAY / SHRIPNEY ROAD (A29) / STEYNING WAY ROUNDAABOUT

ARCADY 6 ANALYSIS

Weekday AM Peak Hour

	Shripney Road (A29) south		Rowan Way		Shripney Road (A29) north		Steyning Way	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.633	2	0.625	2	0.459	1	0.053	0
2025 Base	0.736	3	0.758	3	0.540	1	0.064	0
2011 Base + Asda + Business Park (1,100sqm)	0.645	2	0.652	2	0.463	1	0.052	0
2025 Base + Asda +Business Park (19,500sqm)	0.792	4	0.860	6	0.559	1	0.064	0

Weekday PM Peak Hour

	Shripney Road (A29) south		Rowan Way		Shripney Road (A29) north		Steyning Way	
	RFC	Q	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.953	14	0.657	2	0.830	5	0.286	0
2025 Base	1.159	130	0.767	3	0.987	23	0.414	1
2011 Base + Asda + Business Park (1,100sqm)	0.386	5	0.642	2	0.887	7	0.284	0
2025 Base + Asda +Business Park (19,500sqm)	1.109	92	0.803	4	1.140	126	0.405	1

RFC - Ratio of Flow to Capacity
Q - Number of Vehicles

COTTEE

OLDLANDS FARM BUSINESS PARK - BOGNOR REGIS

PERMITTED ROWAN WAY / WESTERN RELIEF ROAD ROUNDABOUT

ARCADY 6 ANALYSIS

Weekday AM Peak Hour

	Rowan Way (east)		Rowan Way (west)		Permitted Western Relief Road	
	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.446	1	0.326	1	0.226	0
2025 Base	0.512	1	0.384	1	0.265	0
2011 Base + Asda + Business Park (1,100sqm)	0.469	1	0.337	1	0.234	0
2025 Base + Asda +Business Park (19,500sqm)	0.528	1	0.416	1	0.295	0

Weekday PM Peak Hour

	Rowan Way (east)		Rowan Way (west)		Permitted Western Relief Road	
	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.722	3	0.219	0	0.318	1
2025 Base	0.889	8	0.270	0	0.375	1
2011 Base + Asda + Business Park (1,100sqm)	0.800	4	0.237	0	0.330	1
2025 Base + Asda +Business Park (19,500sqm)	0.965	17	0.299	0	0.392	1

RFC - Ratio of Flow to Capacity
Q - Number of Vehicles

COTTEE

OLDLANDS FARM BUSINESS PARK - BOGNOR REGIS

PERMITTED EASTERN RELIEF ROAD / RESIDENTIAL DEVELOPMENT ACCESS

ARCADY 6 ANALYSIS

Weekday AM Peak Hour

	Eastern Relief Road (east)		Residential development access		Eastern Relief Road (west)	
	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.251	0	0.131	0	0.579	1
2025 Base	0.288	0	0.155	0	0.656	2
2011 Base + Asda + Business Park (1,100sqm)	0.264	0	0.137	0	0.590	1
2025 Base + Asda +Business Park (19,500sqm)	0.309	0	0.164	0	0.668	2

Weekday PM Peak Hour

	Eastern Relief Road (east)		Residential development access		Eastern Relief Road (west)	
	RFC	Q	RFC	Q	RFC	Q
2011 Adjusted Base	0.288	0	0.155	0	0.668	2
2025 Base	0.527	1	0.128	0	0.573	1
2011 Base + Asda + Business Park (1,100sqm)	0.474	1	0.110	2	0.525	1
2025 Base + Asda +Business Park (19,500sqm)	0.551	1	0.136	0	0.618	2

RFC - Ratio of Flow to Capacity
Q - Number of Vehicles