The Cambridge South East Transport Order

Transport And Works Act 1992

Transport And Works (Applications And Objections Procedure) (England And Wales) Rules 2006

Appendix 14.1 – Traffic and Transport Data

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Impacts and effects due to additional construction traffic

14.1.1 Additional traffic flows generated by construction of the Proposed Development will result from the deliveries of materials and equipment to compounds and commuting by the construction workforce.

14.1.2 Table A14.1.1 presents the increase in peak daily traffic flows along the designated lorry routes forecast to be generated by the construction of the Proposed Development during the busiest periods of activity. It also presents the 2026 DM forecast traffic flows for these roads, as well as the proportional change in traffic flows due to the additional construction traffic.

Table A14.1.1 Increase in daily traffic flows along lorry routes

Road	2026 DM daily traffic (AAWT24)		peak daily construction traffic		Proportional increase	
	All Vehs.	HDVs	All Vehs.	HDVs	All Vehs.	HDVs
Granham's Rd	4,742	142	96	48	2.0%	33.8%
Hinton Wy	8,327	135	48	24	0.6%	17.8%
Haverhill Rd	7,172	75	72	36	1.0%	48.0%
Babraham High St	2,533	34	42	0	1.7%	0.0%
Hauxton Rd	32,512	787	288	144	0.9%	18.3%
Addenbrooke's Rd west of A1301	14,249	248	288	144	2.0%	58.1%
Addenbrooke's Rd east of A1301	10,505	174	120	60	1.1%	34.5%
A1301 Cambridge Rd - Addenbrooke's Rd to Granham's Rd	12,931	283	126	84	1.0%	29.7%
A1301 Cambridge Rd - Granham's Rd to Hinton Wy	13,813	344	126	84	0.9%	24.4%
A1301 Cambridge Rd - Hinton Wy to Bury Rd	9,582	289	126	84	1.3%	29.1%
A1301 Cambridge Rd - Bury Rd to Cambridge Rd	12,218	170	126	84	1.0%	49.4%
Cambridge Rd	9,488	147	126	84	1.3%	57.1%
Babraham Rd	1,201	17	126	84	10.5%	494.1%
Sawston Rd	1,201	17	42	0	3.5%	0.0%
A1307 Brabreham Rd - A11 to the Travel Hub access	18,112	574	348	174	1.9%	30.3%
A1307 Brabraham Rd – Travel Hub access to Haverhill Rd	19,159	573	192	96	1.0%	16.8%
A1307 Brabraham Rd - Haverhill Rd to Hinton Wy	22,965	521	144	72	0.6%	13.8%
A1307 Brabraham Rd - Hinton Wy to Granham's Rd	17,762	804	96	48	0.5%	6.0%
A11 - A505 to A1307	57,437	3,276	278	139	0.5%	4.2%
A11 east of A1307	43,404	2,632	70	35	0.2%	1.3%
A505 - M11 to A11	32,631	1,814	139	70	0.4%	3.8%

14.1.3 As can be seen from Table A14.1.1, all the construction lorry routes are forecast to have an increase in total daily traffic flows of well below 30% (green cells), with only Babraham Road in Sawston having an increase slightly greater than 10%. Roads where the construction traffic forecast to be generated by the Proposed Development will result in a greater than 30% (amber cells) increase in total traffic of HDVs are as follows:

- Granham's Road
- Havervill Road
- Addenbrook's Road
- A1301 Cambridge Road between Bury Road and Cambridge Road
- Cambridge Road
- Babraham Road
- A1307 between the A11 and the Travel Hub access

14.1.4 Babraham Road is notable for having forecast construction traffic exceeding a 100% (red cell) increase in HDVs.

14.1.5 The receptor sensitivity of the designated lorry routes is provided in Table A14.1.2.

Table A14.1.2 Construction lorry routes sensitivity

Road	Receptor sensitivity
Granham's Rd	Low
Hinton Wy	Low
Haverhill Rd	Low
Babraham High St	Medium
Hauxton Rd	Low
Addenbrooke's Rd west of A1301	Low
Addenbrooke's Rd east of A1301	Low
A1301 Cambridge Rd - Addenbrooke's Rd to Granham's Rd	Medium
A1301 Cambridge Rd - Granham's Rd to Hinton Wy	Medium
A1301 Cambridge Rd - Hinton Wy to Bury Rd	Medium
A1301 Cambridge Rd - Bury Rd to Cambridge Rd	Medium
Cambridge Rd	Low
Babraham Rd	Medium
Sawston Rd	Low
A1307 Brabreham Rd - A11 to Babraham High St	Low
A1307 Brabraham Rd - Babraham High St to Haverhill Rd	Low
A1307 Brabraham Rd - Haverhill Rd to Hinton Wy	Low
A1307 Brabraham Rd - Hinton Wy to Granham's Rd	Low
A11 - A505 to A1307	Low
A11 east of A1307	Low
A505 - M11 to A11	Low

14.1.6 The additional construction traffic using the designated construction lorry routes is forecast to result in the following severity of effects for traffic congestion/driver delay, increased risk of accidents, severance, reduced amenity and wellbeing for those people living or working alongside the roads and reduced amenity for non-motorised users, including increased fear and intimidation:

- Babraham Road: Significant temporary moderate to large adverse effect.
- A1301 Cambridge Road (Bury Road to Cambridge Road) construction lorry route: slight adverse effect.
- All other lorry routes: Temporary slight adverse effect.

Impacts and effects due to temporary traffic management arrangements

14.1.7 Temporary traffic management arrangements will be required: where the Proposed Development intersects roads; to create temporary access for construction compounds; for utility diversions; and to create the vehicular access junction for the Travel Hub off the A1307.

14.1.8 The temporary traffic management arrangements that are anticipated to be in place for more than a month are as follows:

- Phase K Francis Crick Avenue: Lane closures & temporary traffic lights for 61 weeks
- Phase I & H interface on Granham's Road: Temporary traffic lights for 56 weeks
- Phase H & G interface on Hinton Way: Temporary traffic lights for 44 weeks
- Phase G & F interface on Haverhill Road: Temporary traffic lights for 80 weeks
- Phase E & D interface on Babraham/ Sawston Road: Temporary traffic lights for 80 weeks
- A1307 Babraham Road (near A11 roundabout): Lane closures & temporary traffic lights for 22 weeks

14.1.9 All the temporary traffic management arrangements will be in accordance with applicable requirements as set out in Chapter 8 of the Traffic Signs Manual published by the DfT. Consequently, it is considered that they will have a temporary negligible to slight adverse effect on road safety.

14.1.10 The temporary traffic lights at the intersection of the Proposed Development with Granham's Road, Hinton Way, Haverhill Road and Sawston Road required during construction will be configured such that traffic on these roads will only receive a red signal to allow construction traffic to cross them. This will minimise any delay caused to drivers on these roads which also carry relatively low traffic volumes. Therefore, the temporary traffic management arrangements on Granham's Road, Hinton Way, Haverhill Road and Sawston Road are considered to have a temporary negligible to slight adverse effect on driver delay.

14.1.11 Francis Crick Avenue provides one of the key strategic routes regularly used by ambulances for emergency access. Consequently, access for emergency services will be retained throughout the construction programme. The temporary traffic management arrangements on Francis Crick Avenue will be fully coordinated and agreed with CBC and the emergency services prior to implementation to ensure that access for ambulances and other emergency services is not unduly compromised.

14.1.12 Nonetheless, the temporary traffic management arrangements on Francis Crick Avenue have the potential to cause additional delay to traffic, including ambulances. Consequently, they are deemed to have a significant temporary, slight to moderate, adverse, effect on delay.

14.1.13 The temporary traffic management arrangements on the A1307 Babraham Road (near A11 roundabout) are also have the potential to cause additional delay to traffic and the A1307 carries relatively high traffic volumes. Therefore, they are judged to have a temporary, slight, adverse effect on delay.