

From: Ben Muirhead

Sent: 09 December 2020 16:26

To: Stephen Gee <Stephen.Gee@westsussex.gov.uk>

Subject: RE: SA13 Land East of Keymer Road and South of Folders Lane, Burgess Hill

Stephen

Further to our discussion and your email below, I have re-reviewed the development traffic distribution and assignment between the Keymer Road / Grand Avenue junction and the Stonepound Crossroads. The Clayton Mills TA set out that 8.76% of residential development traffic has O/D in Hassocks (refer to Table 6.9 of the Clayton Mills Transport Assessment, as you note in your email). We did not account for this, routing traffic through Hassocks to/from the Stonepound Crossroads junction, hence the higher volume of SA13 development traffic at Stonepound Crossroads than expected. Below I set out how, accounting for Hassocks itself as an O/D, the reduction in SA13 development traffic volume at the Stonepound Crossroads has been reached.

Firstly, I have attached the SA13 development distribution and assignment traffic flow diagrams as submitted with the Highways Appraisal Assessment report, but with the turning movements at the Grand Avenue junctions shown; refer to Figures 7a to 10a.

Secondly, I have attached the SA13 development sensitivity distribution and assignment traffic flow diagrams, including the traffic whose O/D is Hassocks itself (shown as a junction for simplicity terms); refer to Figures 7b to 10b.

The Clayton Mills Transport Assessment assignment through the Keymer Road / Grand Avenue junction, and Stonepound Crossroads, is summarised as follows:

- AM Development Trips (Traffic Flow Diagram TF9):
 - 61 westbound trips at Keymer Road / Grand Avenue junction compared to 23 westbound trips at Stonepound Crossroads; equating to 39% of development traffic through Hassocks and 61% destination in Hassocks.
 - 21 eastbound trips at Stonepound Crossroads compared to 56 eastbound trips at Keymer Road / Grand Avenue junction; equating to 38% of development traffic through Hassocks and 62% originating in Hassocks.
- PM Development Trips (Traffic Flow Diagram TF10):
 - 18 westbound trips at Keymer Road / Grand Avenue junction compared to 6 westbound trips at Stonepound Crossroads; equating to 33% of development traffic through Hassocks and 67% destination in Hassocks.
 - 9 eastbound trips at Stonepound Crossroads compared to 26 eastbound trips at Keymer Road / Grand Avenue junction; equating to 35% of development traffic through Hassocks and 65% originating in Hassocks.

The SA13 development sensitivity distribution and assignment (refer to Figures 7b to 10b) reduces the traffic flows at the Stonepound Crossroads by the proportions set out above for the Clayton Mills Transport Assessment. Taking this sensitivity analysis into account, the SA13 development percentage impact on Keymer Road at the Stonepound Crossroads reduces from 3.5% AM and 4.2% PM to 1.4% AM and 1.4% PM, with all other arms of the junction reducing to less than 1% (refer to the Link Flows Sensitivity table attached).

I trust this more accurately reflects the SA13 development traffic impact at the Stonepound Crossroads junction, which would not be considered a material impact.

Should you have any queries please contact me.

Kind Regards



Ben Muirhead | Associate

BEng MCIHT

Tuscany House | White Hart Lane | Basingstoke | RG21 4AF

T: 01256 331144

E: bmuirhead@odysseyconsult.co.uk W: www.odysseyconsult.co.uk

Visit <http://www.odysseyconsult.co.uk/disclaimer> for email disclaimer information

From: Stephen Gee <Stephen.Gee@westsussex.gov.uk>

Sent: 07 December 2020 16:18

To: Ben Muirhead <bmuirhead@odysseyconsult.co.uk>

Subject: RE: SA13 Land East of Keymer Road and South of Folders Lane, Burgess Hill

Ben,

Are you able to set out what the % destinations are in your work, is it as per the CM application below?

Table 9.6: Distribution of Car Drivers

Destination	Employment Trips %	Non-Commuter Trips %	% All Trips Combined
Burgess Hill	6.89%	24.10%	30.99%
Brighton	8.09%	5.03%	13.13%
Haywards Heath	6.18%	4.42%	10.60%
Hassocks	2.55%	6.20%	8.76%
Crawley	4.00%	2.94%	6.95%
Hurstpierpoint	2.80%	1.72%	4.52%
Worthing	1.07%	2.77%	3.84%
Southwick / Shoreham-by-Sea	0.80%	2.59%	3.39%
Lewes	1.98%	1.39%	3.38%
Ditchling / Wivelsfield	1.45%	0.00%	1.45%
East Grinstead	0.84%	0.49%	1.34%
Peacehaven / Newhaven / Seaford	0.27%	0.97%	1.25%
Horsham	1.24%	0.00%	1.24%
Other North	1.18%	0.00%	1.18%
Other	5.63%	2.36%	7.99%
Total	45.00%	55.00%	100.00%

And then what trips destinations you have assumed are routing through the junction.

The work so far suggests 22ish % routes through Stonepound crossroads which appears high.

I have attached the resi distribution for CM (appendix T) which sets out how they assigned vehicles.

Stephen

From: Ben Muirhead <bmuirhead@odysseyconsult.co.uk>

Sent: 07 December 2020 14:45

To: Stephen Gee <Stephen.Gee@westsussex.gov.uk>

Subject: RE: SA13 Land East of Keymer Road and South of Folders Lane, Burgess Hill

Hi Stephen

As requested, please see attached our SA13 traffic assignment, as contained in Appendix I of our Highways Appraisal Technical Note. Note, the difference in flows from the Ockley Lane / Keymer Road junction and the Stonepound Crossroads is traffic using Grand Avenue.

I also attach the Clayton Mills TA 'Overall Proposed Development Assignment' traffic flow diagrams (refer to TF9 (AM) and TF10 (PM)), as contained in Appendix G of our Highways Appraisal Technical Note. As you will see there is a material difference between traffic volumes at the Grand Avenue junction heading to / from the Stonepound Crossroads compared to the traffic volumes at the Stonepound Crossroads itself. This may be down to development traffic accessing facilities in the Hassocks local centre, such as Hassocks Infant School, Sainsbury's and other shops, and Hassocks railway station.

Should you have any queries please contact me.

Kind Regards



Ben Muirhead | Associate

BEng MCIHT

Tuscany House | White Hart Lane | Basingstoke | RG21 4AF

T: 01256 331144

E: bmuirhead@odysseyconsult.co.uk W: www.odysseyconsult.co.uk

Visit <http://www.odysseyconsult.co.uk/disclaimer> for email disclaimer information

From: Stephen Gee <Stephen.Gee@westsussex.gov.uk>

Sent: 30 November 2020 14:42

To: Ben Muirhead <bmuirhead@odysseyconsult.co.uk>

Subject: RE: SA13 Land East of Keymer Road and South of Folders Lane, Burgess Hill

Ben,

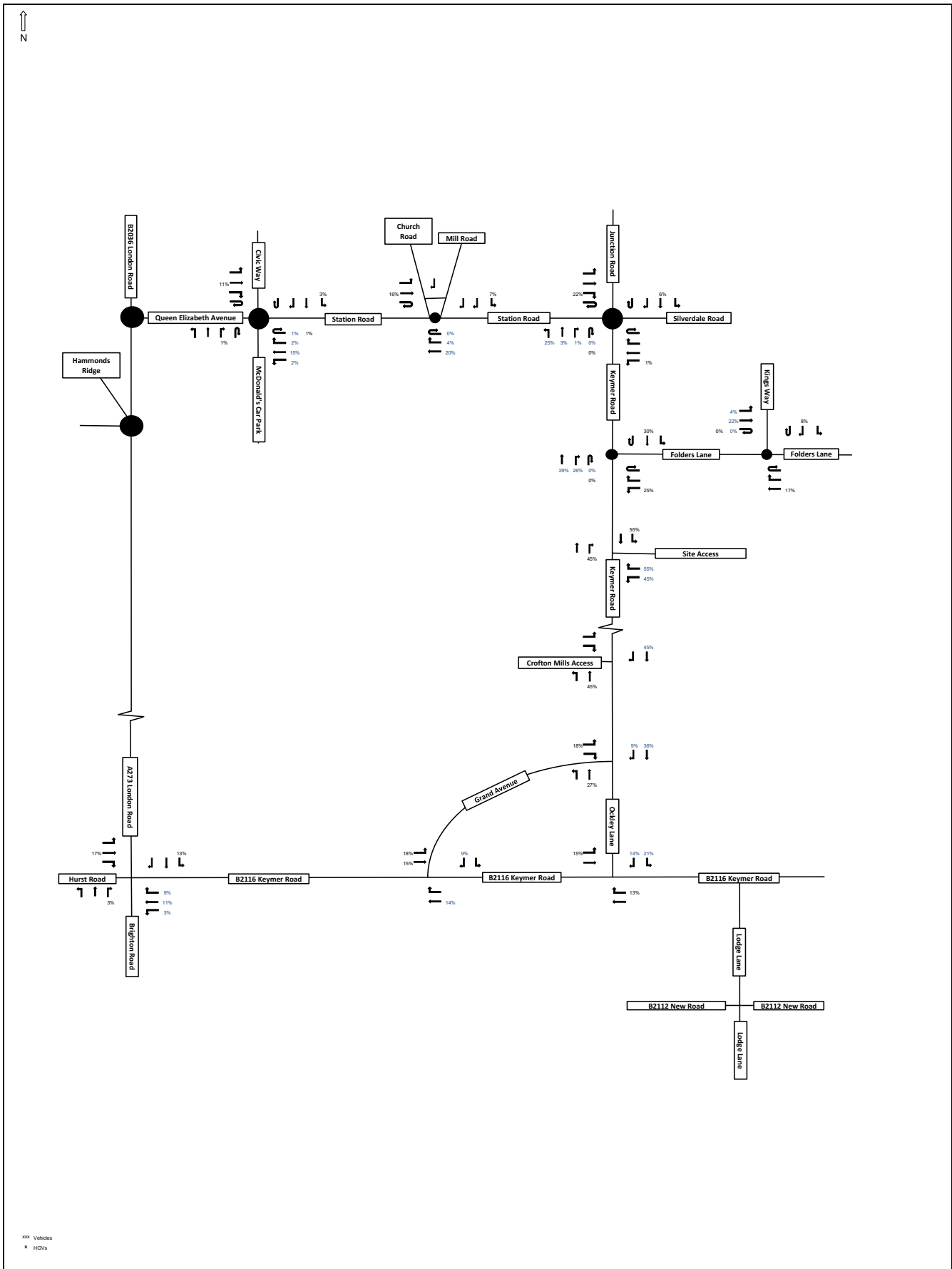
The only outstanding issue I have is the Stonepound crossroads not being modelled, which due to the number of trips through it and existing capacity concerns it should be.

Up until this document I haven't had any distribution diagrams so haven't known the flows through the junction.

I'm just about to head off on the school run but I'll be back at my laptop between 3.30 and 4.00 if you want to discuss today.

Stephen

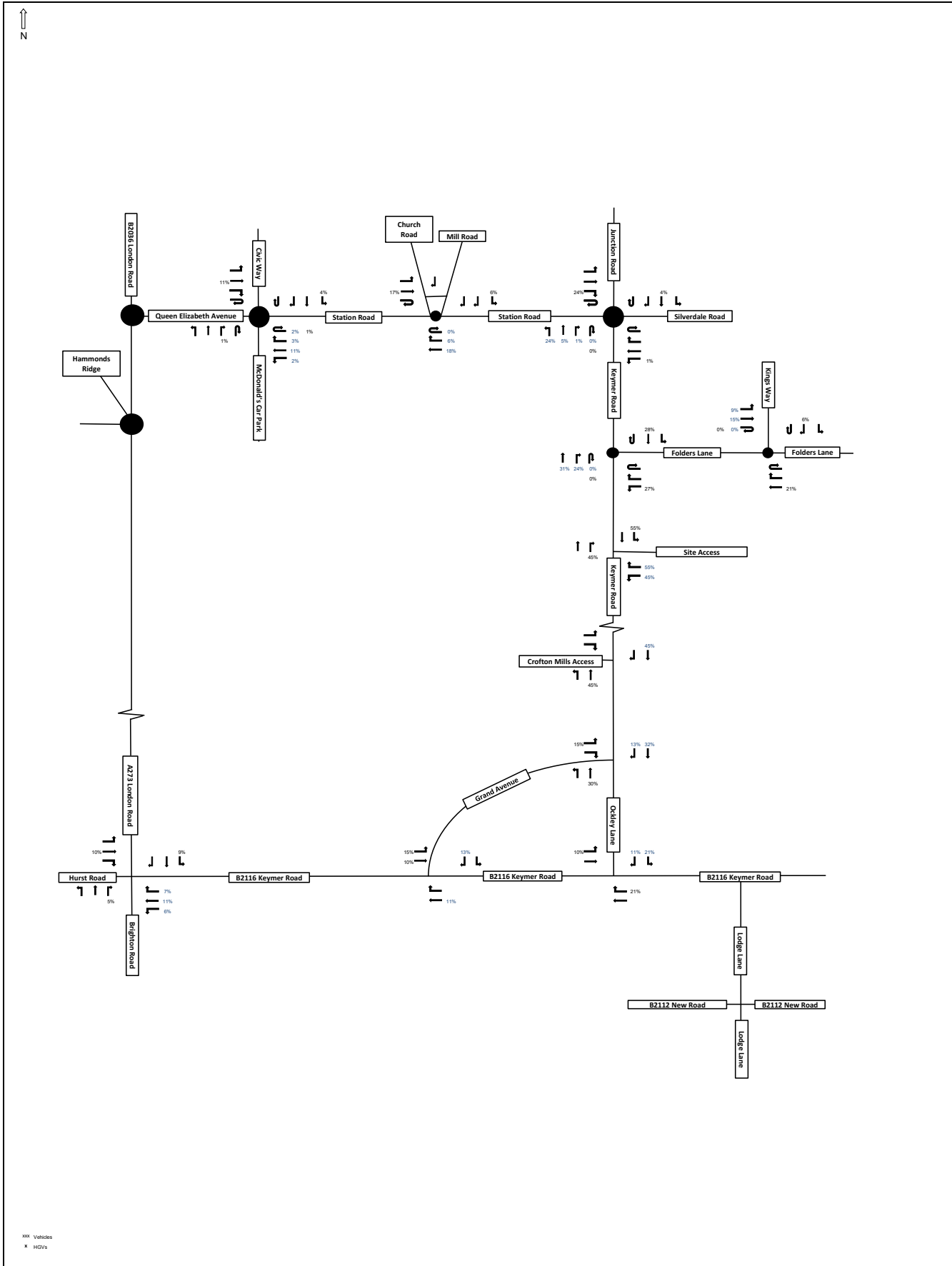
Stephen Gee | Principal Planner County Highways (Development Management), Planning Services, [West Sussex County Council](http://www.westsussex.gov.uk) | Location: Ground Floor, Northleigh, County Hall, Chichester, PO19 1RH | Internal 23306 | External 0330 222 3306 | E-mail: Stephen.Gee@westsussex.gov.uk



Notes	Thakeham	Figure 7a
	Job Title: Land at Keymer Road, Burgess Hill	Job No: 14-205
	Drawing Title: AM Development Distribution	Date: December 2020

ODYSSEY

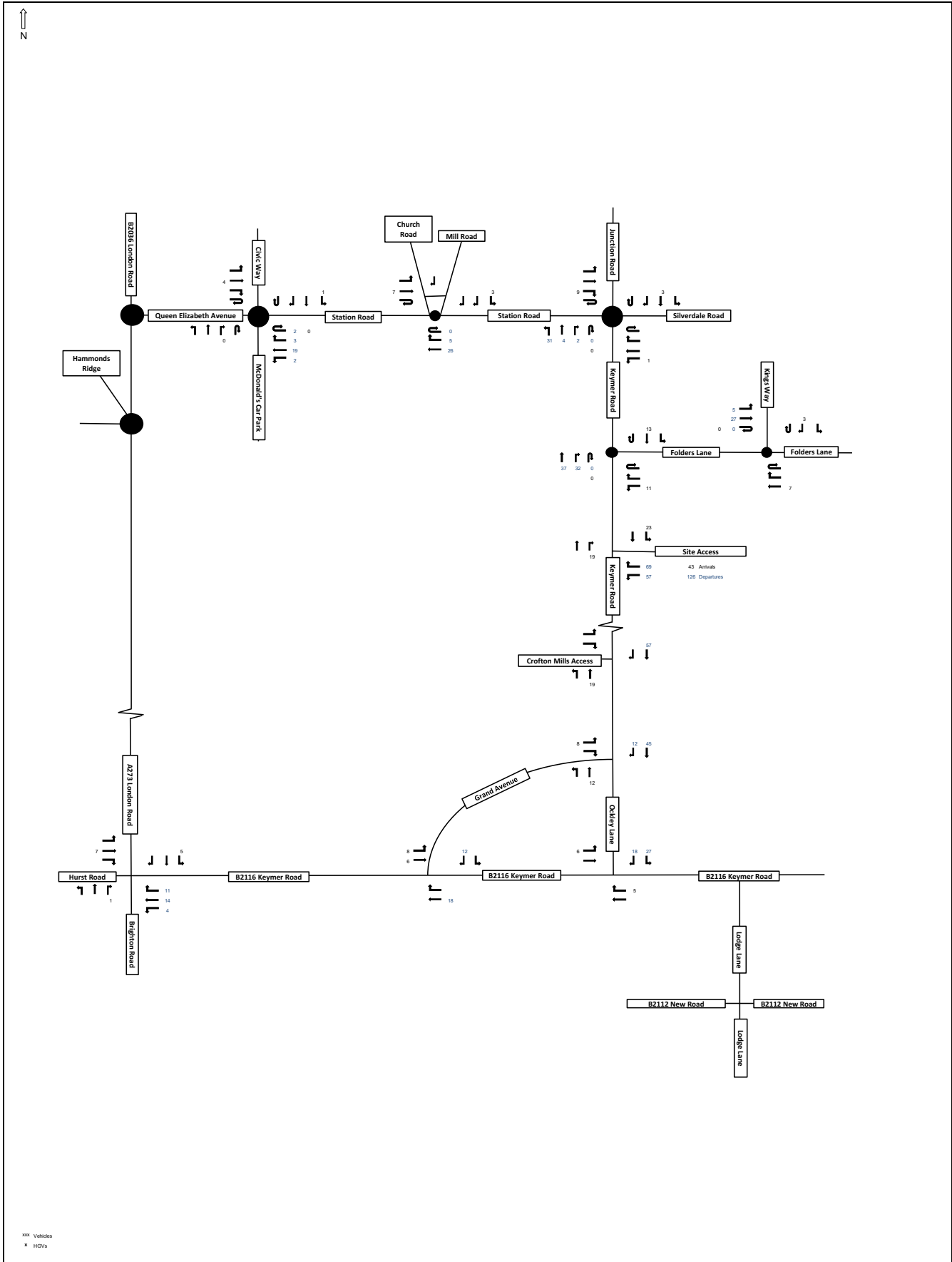
 Forestry House - White Hart Lane T 01293 301144 E info@odysseyconsultants.co.uk
 Southampton - Hampshire - B021 6AP F 01293 301134 W www.odysseyconsultants.co.uk



xxx Voids
x HQ's

Notes	Thakeham	Figure 8a
	Job Title: Land at Keymer Road, Burgess Hill	Job No: 14-205
	Drawing Title: PM Development Distribution	Date: December 2020

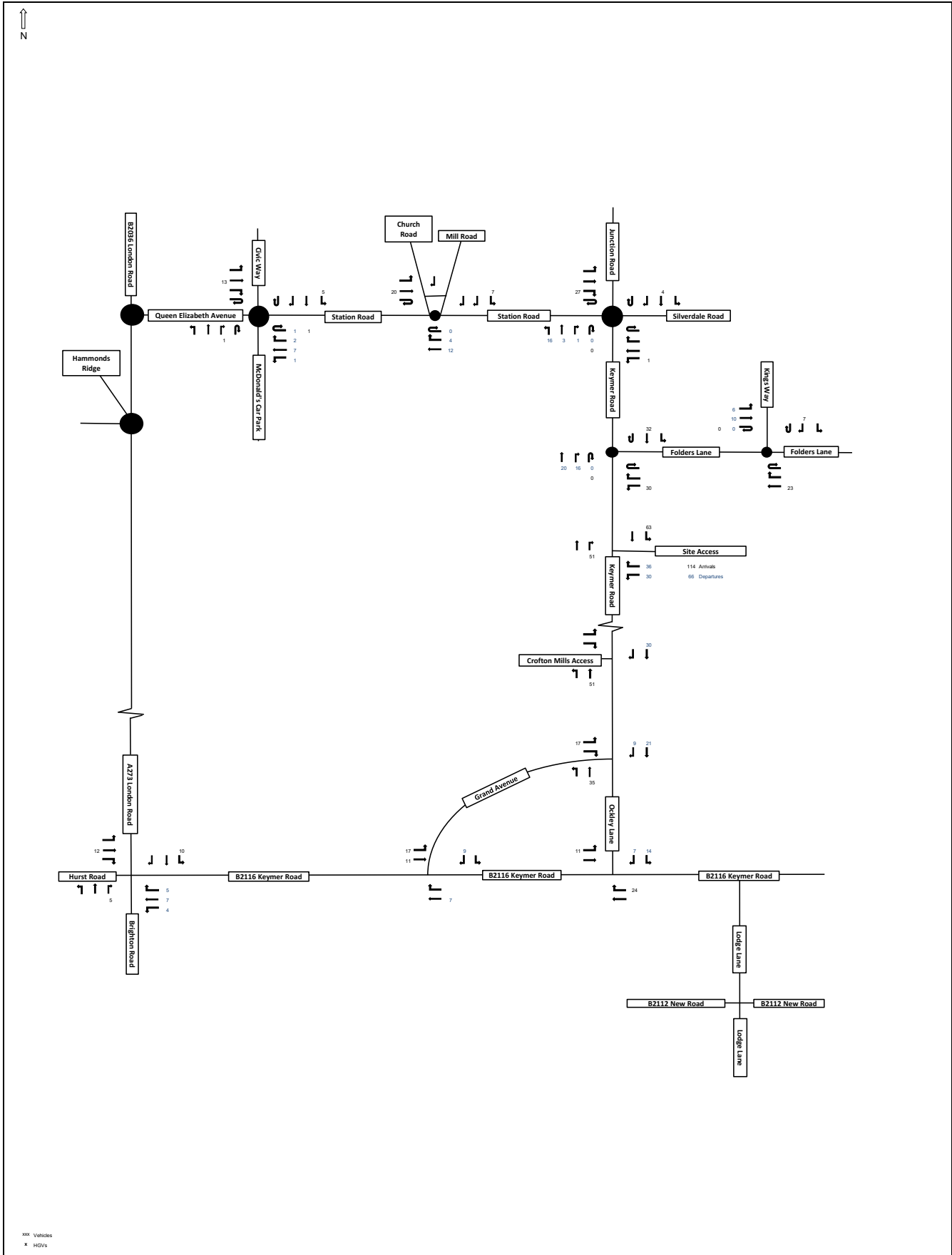




xxx Vehicles
x HQ's

Notes	Thakeham	Figure 9a
	Job Title: Land at Keymer Road, Burgess Hill	Job No: 14-205
	Drawing Title: AM Development Traffic Assignment	Date: December 2020

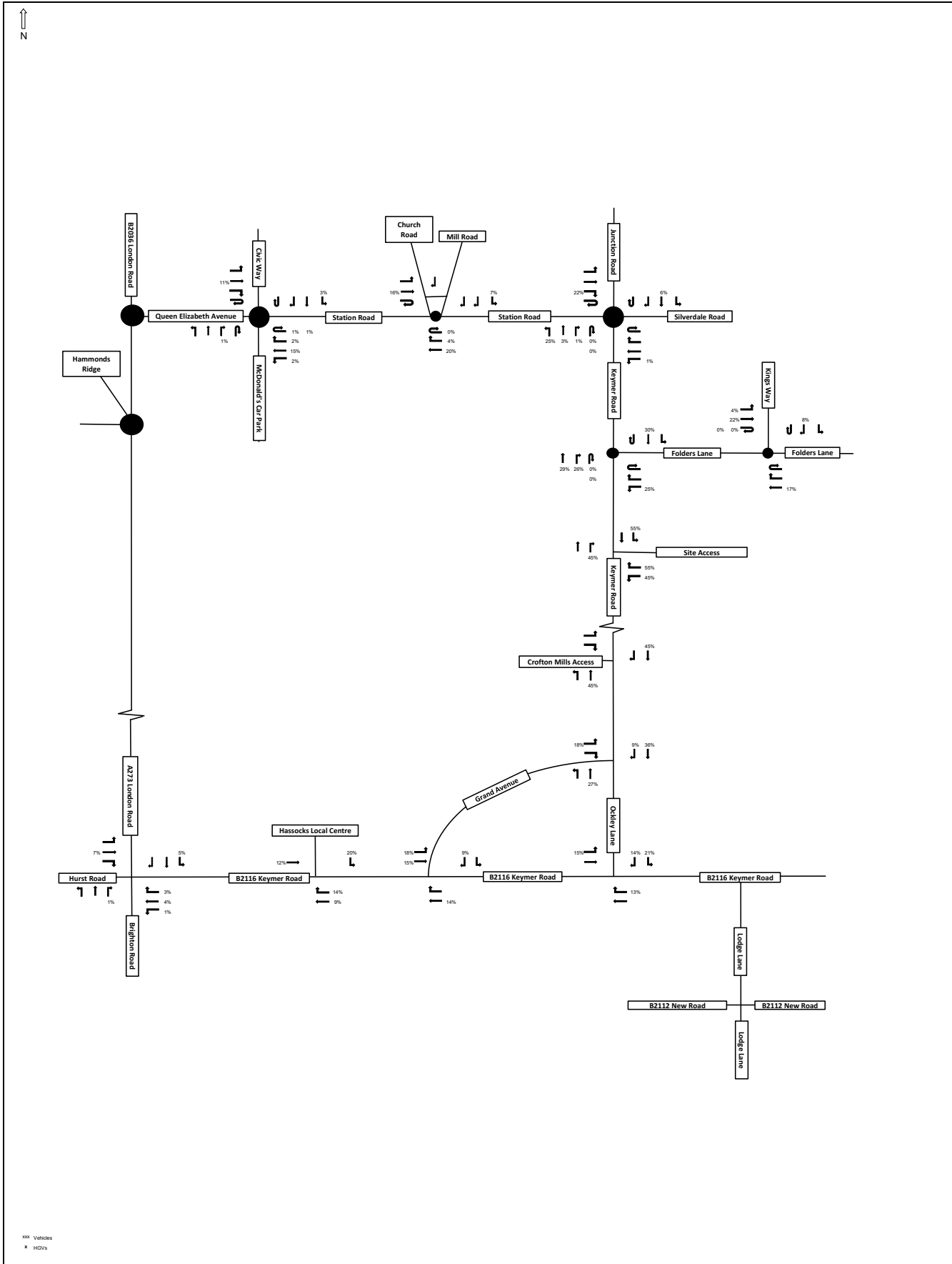




xxx - Vehicles
 x - HQ's

Notes	Thakeham	Figure 10a
	Job Title: Land at Keymer Road, Burgess Hill	Job No: 14-205
	Drawing Title: PM Development Traffic Assignment	Date: December 2020

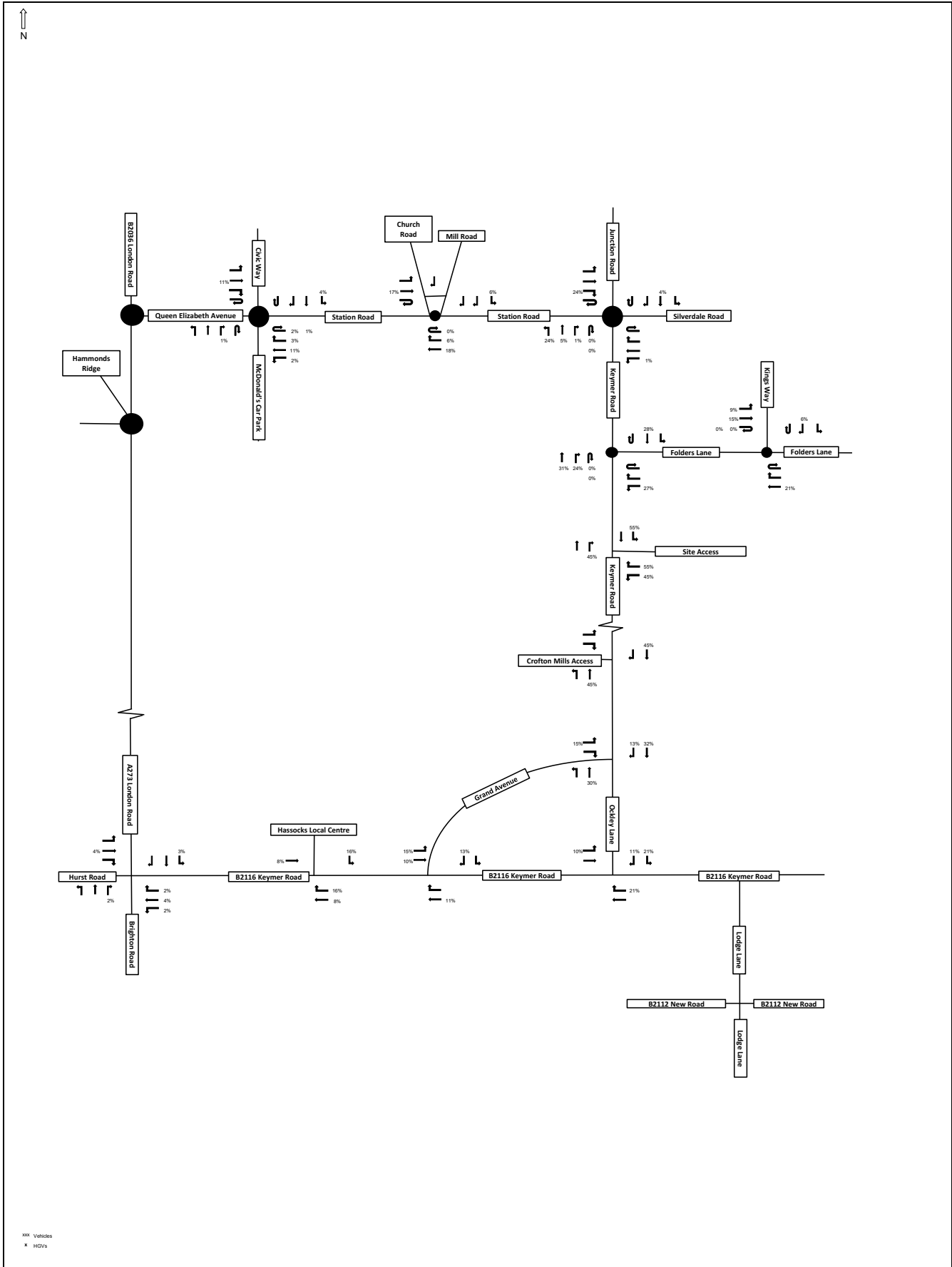




xxx Voids
x HQ's

Notes	Thakeham		Figure 7b	
	Job Title: Land at Keymer Road, Burgess Hill		Job No: 14-205	
	Drawing Title: AM Development Distribution		Date: December 2020	

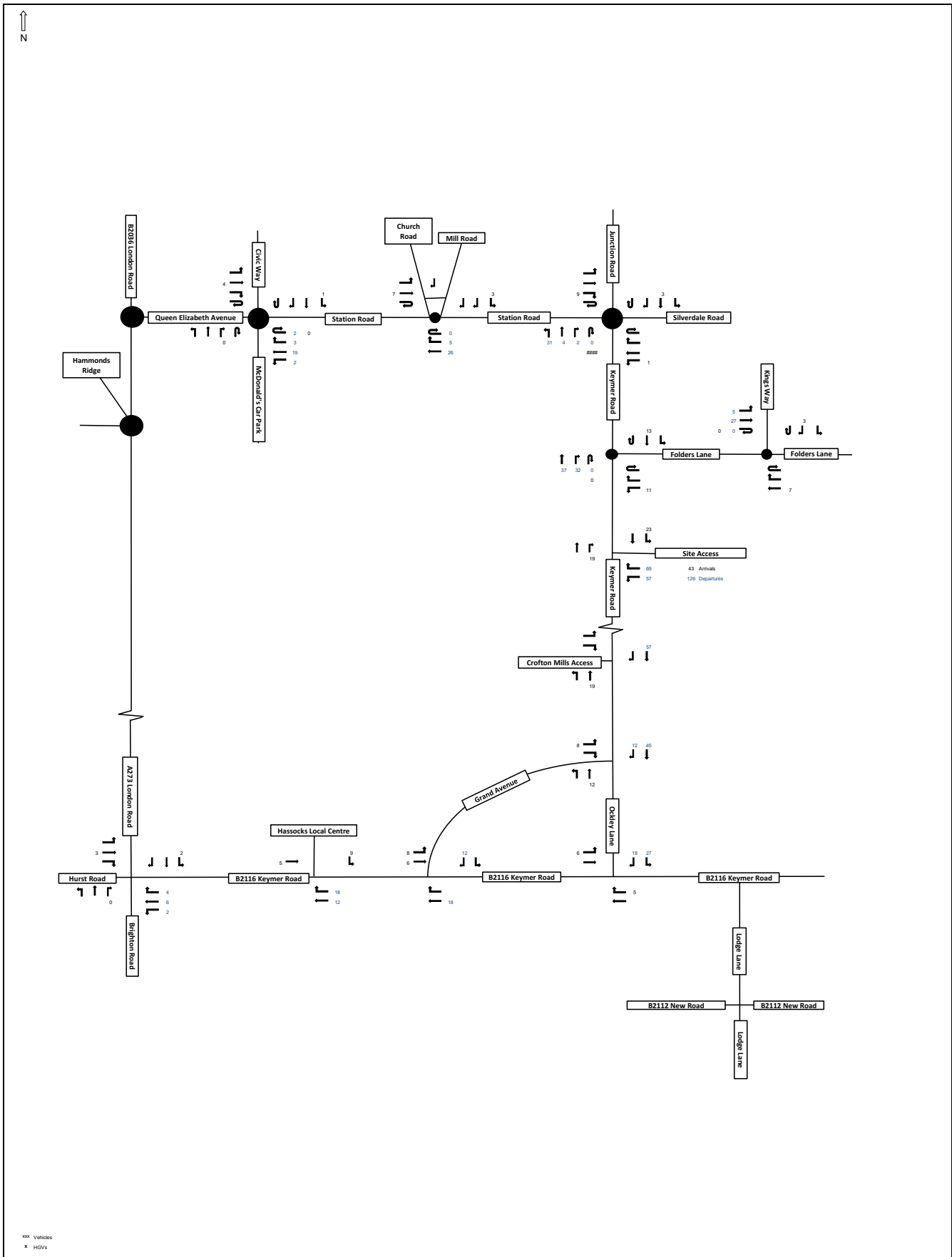




xxx Voids
x HQ's

Notes	Thakeham	Figure 8b
	Job Title: Land at Keymer Road, Burgess Hill	Job No: 14-205
	Drawing Title: PM Development Distribution	Date: December 2020

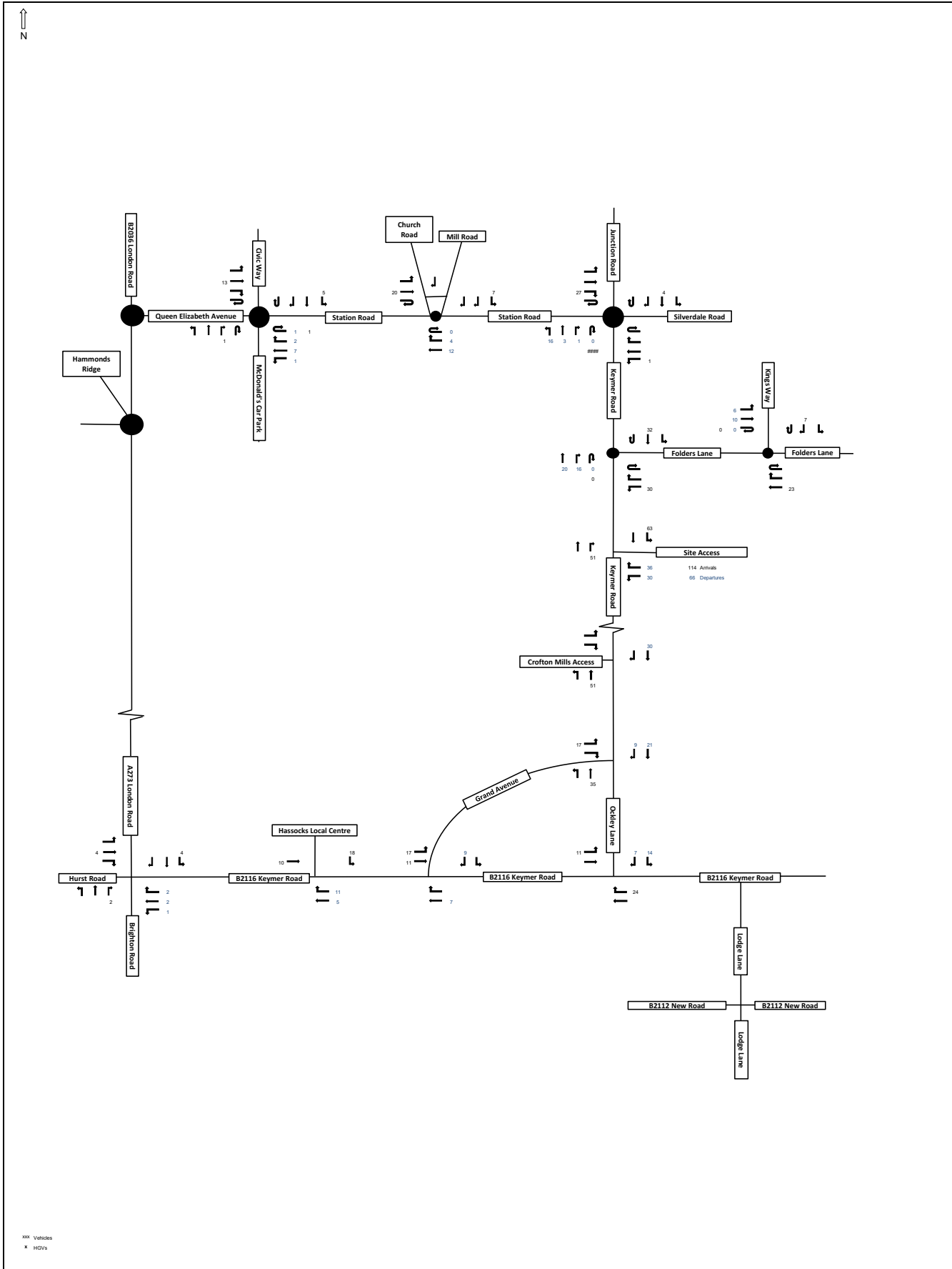




xxx Vehicles
x HQVs

Notes	Thakeham		Figure 9b	
	Job Title: Land at Keymer Road, Burgess Hill		Job No: 14-205	
	Drawing Title: AM Development Traffic Assignment		Date: December 2020	





xxx Vehicles
x HQ's

Notes	Thakeham		Figure 10b		
	Job Title:	Land at Keymer Road, Burgess Hill		Job No:	14-205
	Drawing Title:	PM Development Traffic Assignment		Date:	December 2020



Road	Location	2031 AM B+CD	2031 AM B+CD+D	% Difference	2031 PM B+CD	2031 PM B+CD+D	% Difference	AM Jct Tot	PM Jct Tot
B2116 Keymer Road	East of A273 London Road	1240	1257	1.4%	1031	1046	1.4%		
A273 Brighton Road	South of B2116 Keymer Road	1081	1087	0.6%	1158	1169	0.9%		
B2116 Hurst Road	West of B2116 Keymer Road	960	969	0.9%	738	745	0.9%		
A273 London Road	North of B2116 Keymer Road	1397	1404	0.5%	1548	1553	0.3%	0.8%	0.8%