

Site: Land 800 Metres South of Park House Farm, Meriden Road,
Fillongley
Prepared by: Andrew Nock
Approved by: John Russell
Date: 12/05/2023

NORTH WARWICKSHIRE
BOROUGH COUNCIL

RECEIVED

29/11/2023

**PLANNING & DEVELOPMENT
DIVISION**

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1.0 Introduction

- 1.1 This technical note has been written on behalf of Enviromena, in relation to an application to construct of a temporary Solar Farm providing 47.6MW (AC) output, to include the installation of ground-mounted solar panels together with associated works, equipment and necessary infrastructure on land east of Meriden Road, Coventry, CV7 7DE ("the application site").
- 1.2 This technical note has been written in response to amendments made to the proposed site layout. The following amendments have been made:
 - ▶ Extent of array rows;
 - ▶ Added internal fencing;
 - ▶ Location of transformers, DNO substation and customer substation shown;
 - ▶ Internal tracks indicated; and
 - ▶ Parking area indicated
- 1.3 No material changes have been made to highways aspects of the application since Warwickshire County Council (WCC) removed their highways objection, dated 14/07/2023 (ref 230071). The applicant is still willing to accept the 4 conditions previously suggested by WCC. The following text is reproduced from the most recent technical note associated with the proposal and provides a summary of WCC comments and the applicants response.
- 1.4 This technical note will address comments received from WCC dated 05/04/2023 (ref:230071) and be structured as follows:
 - ▶ Visibility
 - ▶ Access
 - ▶ Trip Generation
 - ▶ HGV Waiting Location
 - ▶ Summary and Conclusion

2.0 Visibility

2.1 WCC State:

"Also, looking right from the access to the site towards Fillongley, the splay goes over a brow of a hill and turns to the right. Topographical information should be provided to show that 215 metres of intervisibility is possible."

- 2.2 Topographic information is not available for Meriden Road however the brow of the hill is circa 280 metres north of the application sites access and therefore the 215m visibility requirement in accordance with the national speed limit on Meriden Road can be achieved both horizontally and vertically. A plan has been prepared demonstrating the distance between the brow of the hill and the end of the visibility splay to the north of the access, this can be seen at **Appendix A**.

2.3 WCC go on to state:

"Looking left from the proposed access the visibility shown is measured to the near edge. The road bears to right reducing the available visibility for approaching drivers. The same splay distance needs to be provided for oncoming traffic. The splay needs to be shown on a drawing.

There is a lot of vegetation obstruction visibility which may need to be retained to hold the motorway bank in place. Again, the Forestry Team will need to assess the impact of any planting removal.

If neither splay can be achieved, then temporary signals for the construction period will be required. Once the site has been constructed the expected traffic should not be considered greater than the existing vehicle movements associated with the access."

2.4 Speed surveys were conducted between the 25th April 2023 to 01st May 2023 to discover the actual speed of vehicles using the road. A 7 day 85th percentile speed of 58.8 miles per hour northbound was found. This equates to a requirement of 194 metres. The ATC results are shown at **Appendix B** and the visibility splay distance calculation is shown at **Appendix C**.

2.5 This visibility was plotted to the south of the access, visibility to the near edge can be achieved within the highway boundary, whilst visibility to oncoming traffic passes over third party land and can therefore not be achieved. The visibility splay showing this can be seen at **Appendix D**.

2.6 WCC state if visibility cannot be achieved, temporary signals will be required for the duration of the construction period. It is suggested that the provision of signals can be secured by way of a suitably worded condition. Suggested wording is as follows:

Priory to construction commencing, temporary traffic signals to be put in place in place to control the movement of vehicles between Meriden Road and the site access for the duration of the construction period. Details of which are to be agreed in writing with the Highway Authority.

3.0 Access

3.1 WCC state:

3.2 "According to Section 3.4 of the submitted Transport Statement the existing width of the access to the site is 32 metres. The width of the dropped kerbs is approximately 13 metres. The rest are full height kerbs which have been worn away because of being driven over with added assistance from the loose material surfacing from the access grinding away the kerbs.

The submitted swept path analyses show that HGV's are entering and exiting the site over the full height kerbs and where there is no bound surfacing.

It also shows that vehicles leaving will be at an acute angle. Drivers of HGV's may struggle to see right. The B pillar of the vehicle may obstruct."

3.3 The topographic survey undertaken identified the whole 33 metres as dropped kerb, it is accepted that damage to full height kerbs could have led to this discrepancy. A revised swept path analysis has been undertaken of a 16.5m articulated lorry entering and exiting the application site. This can be seen at **Appendix E**. It is proposed to extend the dropped kerb from 13m to 18.75m in length and formalise this with full height kerbs beyond this to stop loose material being deposited on the highway network. The access road will be widened by a maximum of 0.84m based on the swept path analysis.

3.4 It is also recognised that HGV's will be at an angle when leaving the site access. As detailed in paragraph 2.6, temporary signals will be in place, preventing conflicting movements when HGVs are exiting the site.

3.5 WCC State:

"Alterations to the access are being proposed. But the access and beginning of the track are not within the red or blue outlines. It will need to be shown that any works within the access can be done."

- 3.6 A copy of WCC Highway Boundary has been obtained for the area in question, this shows that the access is within the public highway and therefore all alterations proposed can be done under a S278 agreement. The WCC Highway Boundary extract can be seen at **Appendix F**. As with the signals it is suggested that these works can be secured by way of suitably worded condition requiring the Applicant to enter into a S278 agreement.

4.0 Trip Generation

- 4.1 WCC State:

"Within Section 3 of the Transport Statement references are made to how many HGV's will visit the site. Table 3.1 shows an average of 6 commercial vehicles per day. But then Section 3.13 says that for the first two weeks 12-16 HGV's per day will be expected. A significant difference.

Also, the Transport Statement does not appear to include workforce movements. There needs to be clear information as to how many vehicles per day are expected. Or if the access is shared with any other fields. If the access is shared and works commence during harvesting or sowing seasons, then there could be a lot of conflicting vehicle movements around the access with the public highway."

- 4.2 Table 3.1 of the submitted Transport Statement states an average of 6 two-way HGV movements per day. This figure is an average across the 28-week construction period. Therefore, the initial site set up will be a period of higher HGV movements and there will be weeks where HGV movements will be less than the average of 6 two-way movements per day across the 28-week construction period.
- 4.3 There will be an estimated 24 two-way cars / vans (<3.5t) per day associated with the solar farm workforce. All vehicles will be parked within the application site with a dedicated staff parking area being provided. There is one other field with an access gate of the access track to the application site. A banksman will be positioned at the gate to manage conflicting vehicle movements during harvesting and sowing seasons.

5.0 HGV Waiting Location

- 5.1 WCC State:

"The existing access is not suitable for two-way vehicle movements. The access will need widening to accommodate two-way HGV Movements. There are no suitable waiting places on the approach to the site and as the recorded speeds fronting the site can exceed the speed limit, the Highway Authority cannot consider vehicles waiting on Meriden Road if there are conflicting vehicle movements around the access."

- 5.2 As detailed in paragraph 2.6 traffic signals will be in place at the site access, this will stop HGVs meeting at the site access.
- 5.3 Alternatively, Hampton Lane (B4102) has a lay by of approximately 80 metres in length for eastbound traffic. This is a 7-minute drive from the application site access. A plan showing the location of the lay by can be seen below in figure 5.1:

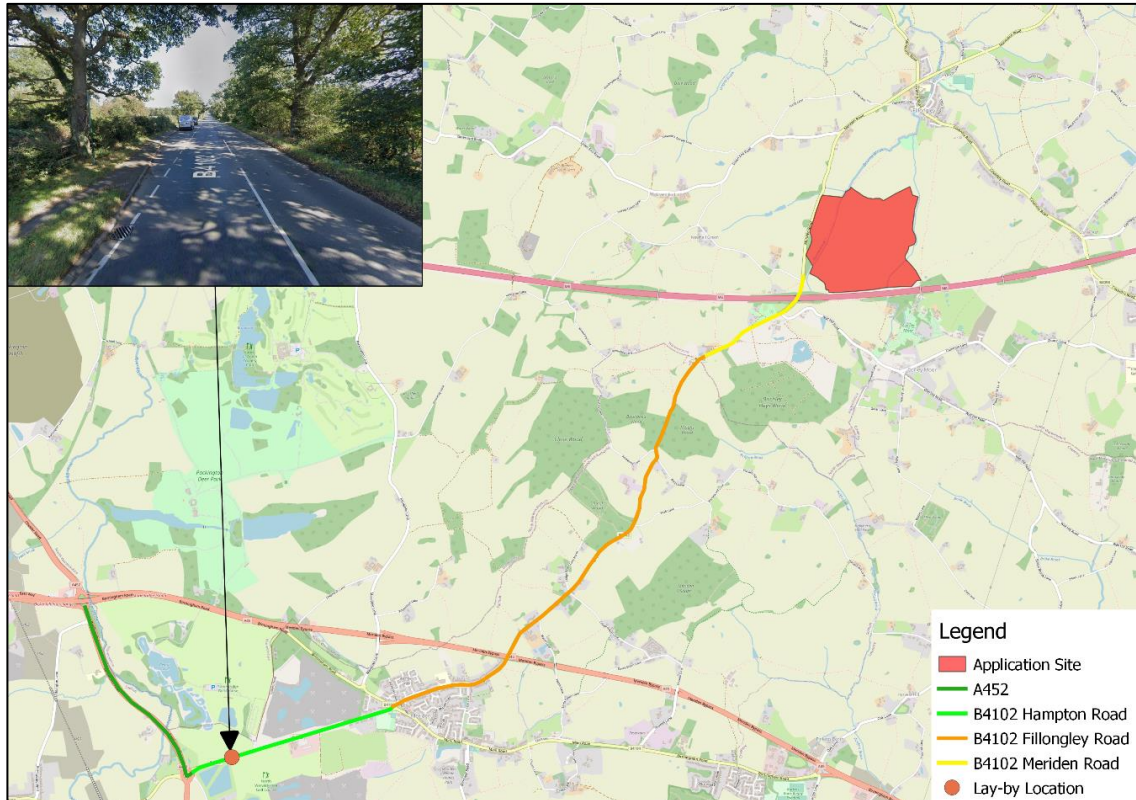


Figure 5.1 – Lay-by Location

6.0 Summary and Conclusion

- 6.1 This highways technical note has been written on behalf of Enviromena, in relation to an application to construct of a temporary Solar Farm providing 47.6MW (AC) output, to include the installation of ground-mounted solar panels together with associated works, equipment and necessary infrastructure on land east of Meriden Road, Coventry, CV7 7DE ("the application site"). This technical note addresses all comments received from Warwickshire County Council (WCC). This technical note demonstrates that:
- ▶ Horizontal and Vertical visibility can be achieved to the north of the site access on Meriden Road;
 - ▶ Temporary traffic signals at the site access will be in place for the duration of the construction period to overcome the visibility requirement to the south;
 - ▶ The existing dropped kerb will be extended to a length of 18.75m. A 16.5m HGV can enter and exit the application site from the proposed access;
 - ▶ Temporary traffic signals will stop the opportunity for two HGV's to meet at the site access. Alternatively, a suitable waiting location in the lay-by on Hampton Lane is proposed for HGV's.

Appendix A

Visibility to the north of the site access

Appendix B

ATC Results

Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.

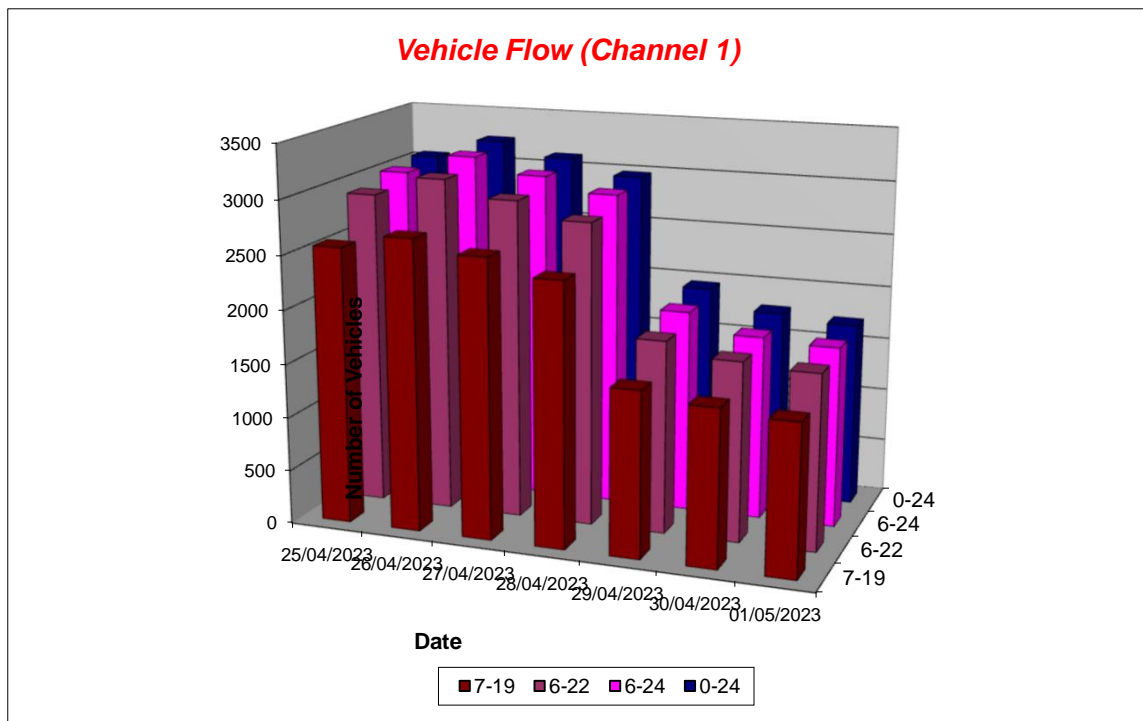


Channel 1 - Northbound

Vehicle Flow

Week 1

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5 Day Ave	7 Day Ave
1	5	9	13	16	32	15	6	10	14
2	8	7	10	6	10	11	5	7	8
3	1	3	3	1	5	6	4	2	3
4	2	1	6	3	2	3	5	3	3
5	9	5	4	4	7	15	9	6	8
6	18	17	19	19	9	9	7	16	14
7	81	72	80	60	26	22	22	63	52
8	147	148	132	129	25	38	38	119	94
9	163	160	160	150	63	44	38	134	111
10	129	126	109	103	74	83	68	107	99
11	101	119	98	92	119	115	81	98	104
12	118	109	91	142	146	121	129	118	122
13	124	123	131	205	158	144	126	142	144
14	133	143	173	162	180	150	152	153	156
15	196	226	239	234	174	153	161	211	198
16	255	278	280	250	151	164	163	245	220
17	444	485	440	389	167	183	162	384	324
18	493	492	474	381	180	136	175	403	333
19	264	289	259	199	97	121	108	224	191
20	110	150	133	123	103	87	79	119	112
21	72	98	66	92	74	62	83	82	78
22	88	85	89	94	55	48	48	81	72
23	66	69	73	74	52	26	28	62	55
24	26	26	31	48	45	18	21	30	31
7-19	2567	2698	2586	2436	1534	1452	1401	2338	2096
6-22	2918	3103	2954	2805	1792	1671	1633	2683	2411
6-24	3010	3198	3058	2927	1889	1715	1682	2775	2497
0-24	3053	3240	3113	2976	1954	1774	1718	2820	2547



Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

Average Speed

Week 1

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
1	57.0	56.1	54.0	49.2	46.3	51.3	48.8
2	55.2	48.7	51.5	47.2	48.5	46.2	47.0
3	53.0	54.7	56.3	58.0	64.0	47.2	53.0
4	55.5	43.0	54.7	44.7	66.8	54.7	47.0
5	45.5	48.0	53.0	49.2	53.0	52.3	59.7
6	55.1	59.2	55.2	53.0	57.7	53.8	54.4
7	55.5	55.8	57.9	55.4	56.5	54.5	55.3
8	53.5	49.2	51.0	51.9	58.6	52.9	52.6
9	50.0	49.1	49.8	50.0	50.7	46.9	49.8
10	45.9	47.0	48.7	48.7	47.9	49.8	48.5
11	46.6	48.6	49.7	47.8	48.8	47.5	51.1
12	46.3	49.2	50.0	49.1	48.9	49.5	48.2
13	49.3	50.5	49.9	48.1	49.9	51.2	49.8
14	51.1	49.9	49.7	49.1	50.0	49.8	49.5
15	50.3	49.1	50.7	49.0	49.8	51.0	51.6
16	49.1	50.7	49.2	51.0	50.6	49.4	51.1
17	49.2	50.5	50.4	50.5	49.6	51.2	51.5
18	49.8	49.9	49.9	50.9	50.3	51.5	52.7
19	51.5	52.4	50.6	51.2	52.6	50.8	50.2
20	52.4	52.4	50.3	51.2	52.9	50.7	53.5
21	52.1	51.2	52.6	52.5	52.8	52.6	52.4
22	51.9	53.1	49.0	47.7	50.5	50.2	49.9
23	54.0	54.4	50.1	46.8	49.8	51.5	52.6
24	52.7	55.7	51.5	51.1	51.0	49.9	53.7

10-12	46.4	48.9	49.8	48.6	48.9	48.5	49.3
14-16	49.6	50.0	49.9	50.0	50.2	50.2	51.3
0-24	50.2	50.6	50.4	50.1	50.4	50.4	51.0

7 Day Ave	50.4
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85th Percentile

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
1	63.7	63.6	69.0	58.7	58.9	58.7	58.2
2	55.2	58.3	53.4	58.9	53.7	58.9	53.5
3	53.6	58.3	58.3	58.8	86.0	53.5	63.3
4	58.3	43.8	63.2	48.0	85.9	58.1	48.3
5	53.3	53.8	53.2	58.5	53.1	58.8	63.0
6	63.8	86.1	68.6	63.9	63.8	63.4	68.5
7	63.0	64.0	68.4	58.4	68.5	58.5	63.2
8	58.8	53.9	58.4	58.7	63.8	63.5	63.9
9	58.8	58.2	58.7	53.5	58.6	53.2	58.6
10	58.7	53.7	58.3	58.5	58.8	58.3	58.8
11	58.0	59.0	58.6	53.5	53.0	53.1	58.9
12	58.4	58.2	58.2	58.4	58.2	58.6	58.3
13	58.9	58.5	58.2	53.4	53.1	58.2	58.5
14	58.8	58.1	58.6	58.3	58.1	53.9	58.1
15	58.4	59.0	58.1	58.1	58.3	58.1	58.6
16	59.0	58.7	58.5	58.2	58.1	58.4	58.4
17	58.9	58.0	58.9	59.0	58.0	58.3	59.0
18	58.1	58.6	58.3	58.1	58.5	58.9	58.1
19	58.9	58.1	58.8	58.4	63.7	58.8	58.9
20	63.4	58.1	58.4	58.4	63.5	58.3	58.6
21	63.5	58.8	58.3	63.5	63.8	63.7	58.3
22	58.8	63.3	58.9	53.2	58.1	58.3	58.1
23	63.1	63.0	58.6	53.5	58.2	58.1	58.5
24	58.6	68.3	58.6	58.3	58.7	58.0	58.2

10-12	58.5	58.4	58.4	58.6	53.5	58.3	59.0
14-16	58.3	58.3	58.1	58.5	58.4	58.8	58.1
0-24	58.6	58.9	58.6	58.2	58.1	58.3	58.0

7 Day Ave	58.4
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Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



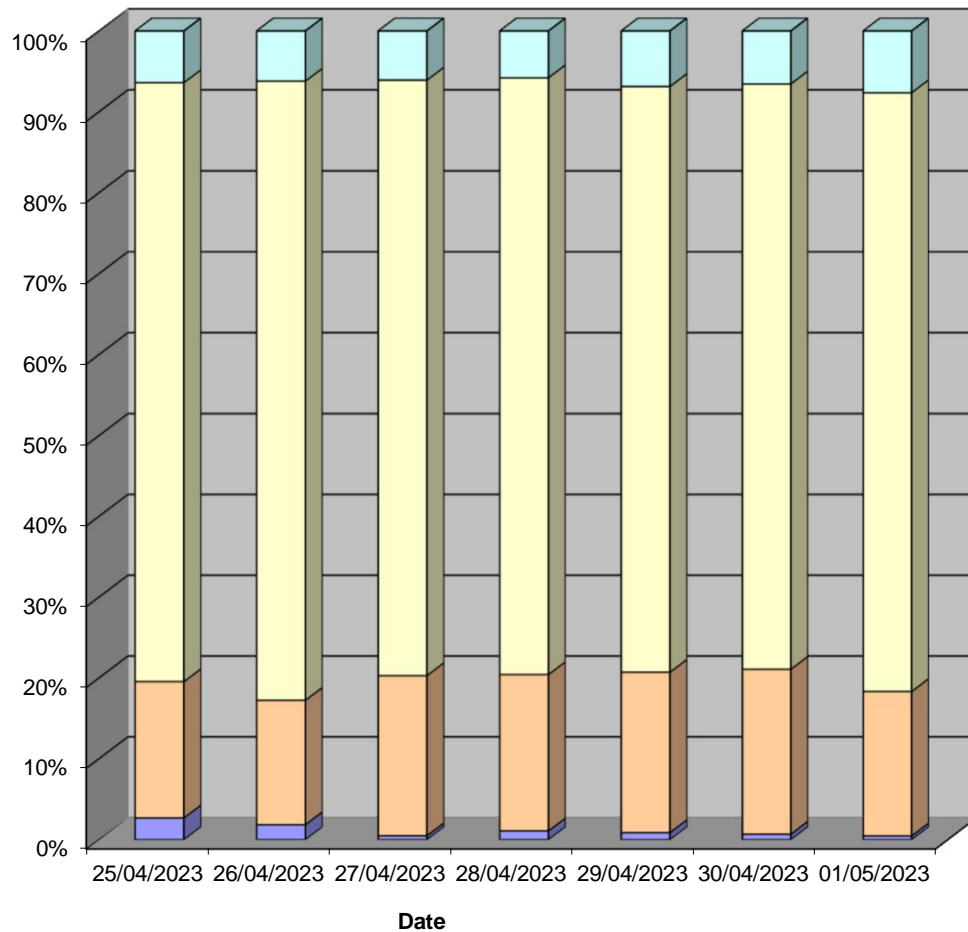
Channel 1 - Northbound

Speed Summary

Week 1

Speed (MPH)	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
0-30	82	60	15	32	17	12	8
31-45	515	499	617	576	388	362	307
46-60	2261	2480	2292	2196	1415	1284	1272
61-100	195	201	189	172	134	116	131
TOTAL	3053	3240	3113	2976	1954	1774	1718

Speed Summary (MPH)



0-30 31-45 46-60 61-100

Coventry ATC 01, Meriden Road

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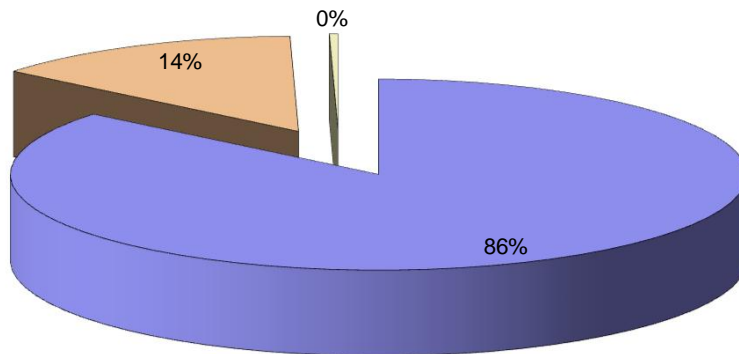
Channel 1 - Northbound

Vehicle Class

Week 1

Classes Day / Time	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
25/04/2023				
7-19	2154	405	8	2567
6-22	2459	451	8	2918
6-24	2538	464	8	3010
0-24	2574	471	8	3053
26/04/2023				
7-19	2246	434	18	2698
6-22	2603	481	19	3103
6-24	2696	483	19	3198
0-24	2734	487	19	3240
27/04/2023				
7-19	2155	422	9	2586
6-22	2480	465	9	2954
6-24	2574	474	10	3058
0-24	2623	480	10	3113
28/04/2023				
7-19	2020	402	14	2436
6-22	2346	445	14	2805
6-24	2462	450	15	2927
0-24	2506	454	16	2976
29/04/2023				
7-19	1361	168	5	1534
6-22	1608	179	5	1792
6-24	1699	185	5	1889
0-24	1754	195	5	1954
30/04/2023				
7-19	1310	140	2	1452
6-22	1509	160	2	1671
6-24	1550	163	2	1715
0-24	1601	171	2	1774
01/05/2023				
7-19	1230	164	7	1401
6-22	1442	184	7	1633
6-24	1485	190	7	1682
0-24	1518	193	7	1718
Average				
7-19	1782	305	9	2096
6-22	2064	338	9	2411
6-24	2143	344	9	2497
0-24	2187	350	10	2547

Total Vehicle Class Distribution



Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.

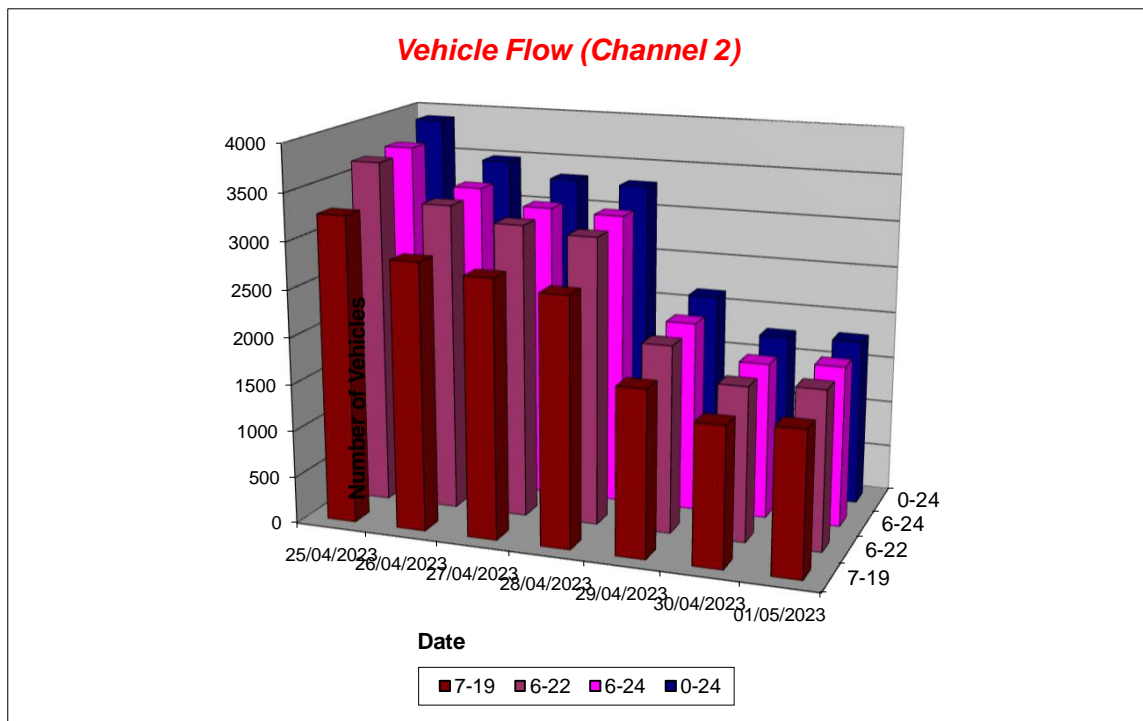


Channel 2 - Southbound

Vehicle Flow

Week 1

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5 Day Ave	7 Day Ave
1	10	8	11	4	20	16	7	8	11
2	8	8	1	5	15	8	7	6	7
3	5	5	8	9	8	6	8	7	7
4	12	14	13	14	9	7	10	13	11
5	31	20	21	26	14	19	14	22	21
6	119	110	113	115	40	34	20	95	79
7	212	211	207	199	73	32	39	174	139
8	541	507	484	376	89	59	73	396	304
9	805	532	483	375	159	89	97	458	363
10	277	242	217	203	179	152	120	212	199
11	321	172	150	179	189	160	187	202	194
12	176	140	136	167	170	168	179	160	162
13	179	165	196	164	169	146	169	175	170
14	143	153	150	197	168	159	138	156	158
15	126	137	151	168	139	146	118	140	141
16	193	193	213	220	102	118	140	192	168
17	192	225	230	228	138	118	111	197	177
18	183	234	188	194	140	98	97	179	162
19	126	144	147	166	126	71	101	137	126
20	90	105	80	105	81	65	65	89	84
21	71	70	60	56	45	38	37	59	54
22	40	44	30	59	34	33	29	40	38
23	22	30	20	41	25	8	17	26	23
24	12	13	12	26	11	14	4	13	13
7-19	3262	2844	2745	2637	1768	1484	1530	2604	2324
6-22	3675	3274	3122	3056	2001	1652	1700	2965	2640
6-24	3709	3317	3154	3123	2037	1674	1721	3005	2676
0-24	3894	3482	3321	3296	2143	1764	1787	3156	2812



Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



Channel 2 - Southbound

Average Speed

Week 1

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
1	49.2	44.2	40.7	43.6	36.4	43.0	44.4
2	45.5	48.6	38.0	46.0	41.3	40.2	49.4
3	44.0	44.0	45.5	44.1	44.2	41.3	44.9
4	45.3	48.4	46.5	45.1	46.9	44.4	43.5
5	48.1	48.2	50.4	48.4	52.6	42.5	50.1
6	51.0	51.0	51.4	48.7	50.1	49.9	49.1
7	49.1	49.1	48.6	49.2	49.8	49.2	49.4
8	47.1	44.7	45.8	46.5	48.5	46.3	48.8
9	44.3	45.6	45.8	45.6	45.8	46.0	47.0
10	42.9	44.7	44.4	43.7	45.3	45.1	44.4
11	41.7	43.1	43.5	44.5	42.6	44.2	44.4
12	41.5	43.4	42.6	43.7	43.6	44.9	44.0
13	43.8	43.4	43.9	43.4	42.8	44.1	44.4
14	44.4	44.4	44.3	43.5	43.1	44.7	45.0
15	43.8	43.2	43.6	42.8	42.9	45.7	46.2
16	45.2	44.0	43.0	43.6	45.2	44.9	45.8
17	45.2	44.6	45.9	44.9	44.2	45.0	45.1
18	46.0	45.5	45.1	44.6	45.0	45.0	46.1
19	45.9	46.0	44.1	44.5	45.2	46.0	45.8
20	47.0	46.4	44.9	47.0	47.3	46.4	47.7
21	49.3	48.7	44.4	44.1	46.6	45.8	48.3
22	43.7	46.9	43.2	41.2	44.5	44.8	45.2
23	43.3	46.6	43.2	42.5	44.5	53.0	44.9
24	45.1	47.4	40.9	36.3	45.7	43.2	43.0

10-12	41.6	43.2	43.1	44.1	43.1	44.6	44.2
14-16	44.6	43.6	43.3	43.3	43.9	45.3	46.0
0-24	45.1	45.3	45.2	44.9	44.7	45.2	45.6

7 Day Ave	45.1
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85th Percentile

Hr Ending	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
1	58.3	48.3	43.7	53.6	48.2	48.6	53.8
2	58.5	68.3	38.5	68.3	48.2	48.8	68.3
3	48.9	48.2	53.6	53.1	53.3	53.5	48.7
4	53.5	63.5	53.2	53.2	58.8	53.2	53.4
5	58.4	53.2	58.5	53.1	53.1	48.9	58.8
6	58.8	58.6	58.7	53.4	53.5	58.4	53.7
7	53.8	53.4	58.8	54.0	58.8	58.3	58.4
8	53.7	53.9	53.4	53.5	58.8	53.8	58.1
9	48.7	53.5	48.9	53.5	53.3	53.2	53.4
10	49.0	48.2	53.7	54.0	54.0	53.4	53.3
11	48.3	48.7	48.1	53.2	48.8	48.2	48.7
12	48.5	53.7	48.6	48.4	48.7	53.9	48.3
13	48.4	53.6	48.7	48.4	48.9	48.6	48.8
14	48.7	53.8	48.0	48.3	53.9	53.4	53.2
15	48.2	53.2	48.4	53.5	48.4	53.4	53.6
16	53.4	48.8	48.4	53.1	53.1	48.9	54.0
17	53.5	53.2	53.3	48.5	54.0	53.6	53.2
18	53.8	54.0	54.0	54.0	53.8	53.9	53.9
19	53.5	53.1	53.8	53.6	53.7	53.5	53.1
20	53.4	53.1	53.7	53.9	53.4	53.3	54.0
21	58.5	53.8	48.4	53.7	53.0	58.9	58.6
22	53.2	58.4	53.7	53.4	58.2	53.3	58.6
23	58.6	58.5	48.3	53.7	48.2	63.3	53.9
24	53.5	63.1	48.4	48.1	53.5	53.2	53.6

10-12	48.7	48.1	48.4	48.8	48.4	53.3	48.2
14-16	53.9	53.2	48.9	48.7	53.1	53.0	53.9
0-24	53.4	53.0	53.1	53.5	53.3	53.7	53.1

7 Day Ave	53.3
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Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



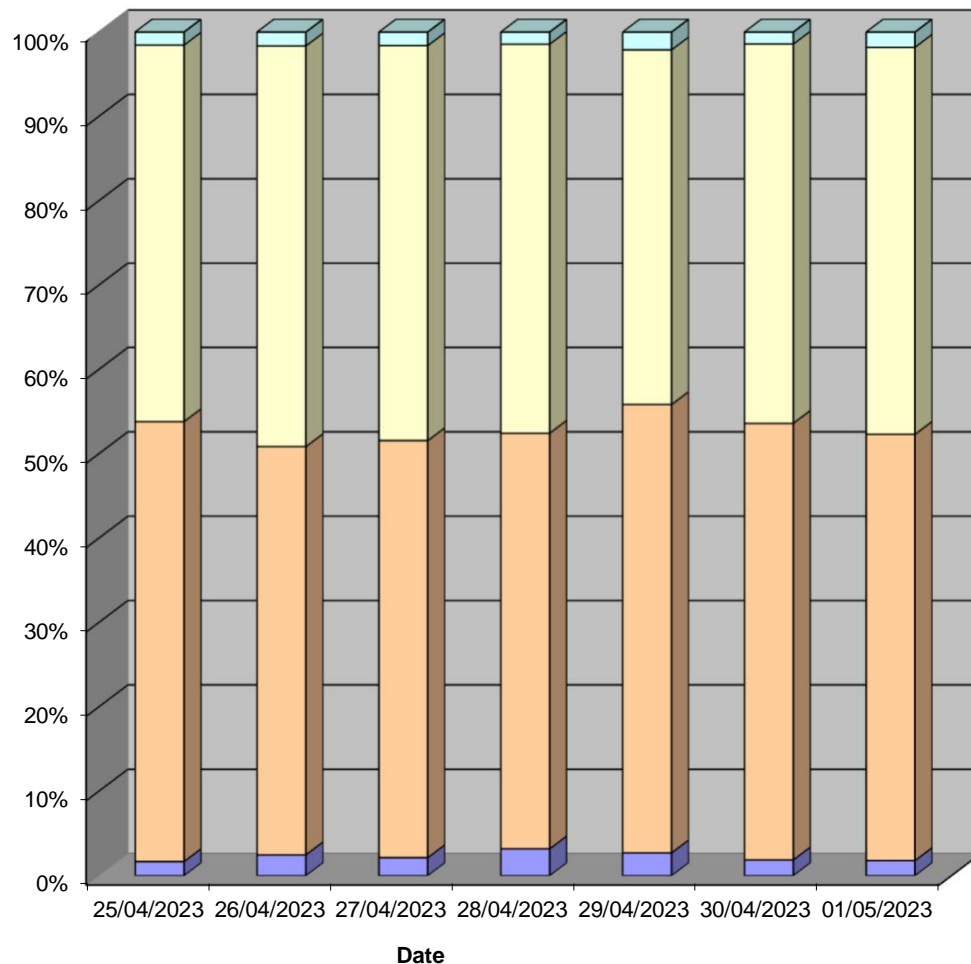
Channel 2 - Southbound

Speed Summary

Week 1

Speed (MPH)	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday
0-30	65	86	71	105	58	33	32
31-45	2031	1685	1642	1624	1139	913	903
46-60	1738	1654	1555	1520	901	793	820
61-100	60	57	53	47	45	25	32
TOTAL	3894	3482	3321	3296	2143	1764	1787

Speed Summary (MPH)



0-30 31-45 46-60 61-100

Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



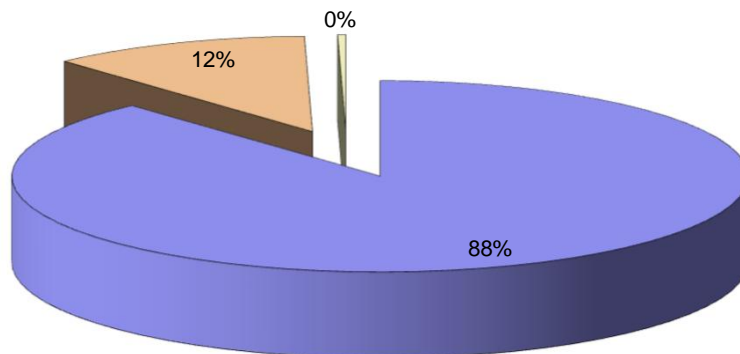
Channel 2 - Southbound

Vehicle Class

Week 1

Classes Day / Time	Car / LGV / Caravan - 1	OGV1 / Bus - 2,3,5,6,7,12	OGV2 - 4,8,9,10,11,13	TOTAL - 1-13
25/04/2023				
7-19	2806	439	17	3262
6-22	3170	488	17	3675
6-24	3200	491	18	3709
0-24	3366	509	19	3894
26/04/2023				
7-19	2448	382	14	2844
6-22	2839	421	14	3274
6-24	2878	425	14	3317
0-24	3030	437	15	3482
27/04/2023				
7-19	2336	397	12	2745
6-22	2668	440	14	3122
6-24	2696	444	14	3154
0-24	2844	462	15	3321
28/04/2023				
7-19	2269	356	12	2637
6-22	2650	394	12	3056
6-24	2715	396	12	3123
0-24	2864	420	12	3296
29/04/2023				
7-19	1626	139	3	1768
6-22	1842	155	4	2001
6-24	1872	161	4	2037
0-24	1961	177	5	2143
30/04/2023				
7-19	1386	98	0	1484
6-22	1547	104	1	1652
6-24	1566	107	1	1674
0-24	1650	113	1	1764
01/05/2023				
7-19	1424	103	3	1530
6-22	1577	120	3	1700
6-24	1596	122	3	1721
0-24	1651	133	3	1787
Average				
7-19	2042	273	9	2324
6-22	2328	303	9	2640
6-24	2360	307	9	2676
0-24	2481	322	10	2812

Total Vehicle Class Distribution



Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	3053	3240	3113	2976	1954	1774	1718	2826	2547
Mean Speed	50.2	50.6	50.4	50.1	50.4	50.4	51.0	50.5	50.4
85%ile Speed	58.6	58.9	58.6	58.2	58.1	58.3	58.0	58.5	58.4
No. Vehicles > 60 MPH Limit	195	201	189	172	134	116	131	178	163
% Vehicles > 60 MPH Limit	6.4	6.2	6.1	5.8	6.9	6.5	7.6	6.4	6.5
No. Vehicles > 75 MPH	4	9	9	6	8	6	5	7	7
% Vehicles > 75 MPH	0.1	0.3	0.3	0.2	0.4	0.3	0.3	0.2	0.3

Channel 2 - Southbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	3894	3482	3321	3296	2143	1764	1767	3156	2812
Mean Speed	45.1	45.3	45.2	44.9	44.7	45.2	45.6	45.2	45.1
85%ile Speed	53.4	53.0	53.1	53.5	53.3	53.7	53.1	53.2	53.3
No. Vehicles > 60 MPH Limit	60	57	53	47	45	25	32	50	46
% Vehicles > 60 MPH Limit	1.5	1.6	1.6	1.4	2.1	1.4	1.8	1.6	1.6
No. Vehicles > 75 MPH	1	0	0	0	2	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
0000-2400 Vehicle Flow	6947	6722	6434	6272	4097	3538	3505	5976	5359
Mean Speed	47.7	48.0	47.8	47.5	47.6	47.8	48.3	47.8	47.8
85%ile Speed	56.0	56.0	55.8	55.9	55.7	56.0	55.5	55.8	55.8
No. Vehicles > 60 MPH Limit	255	258	242	219	179	141	163	227	205
% Vehicles > 60 MPH Limit	3.7	3.8	3.8	3.5	4.4	4.0	4.7	3.9	4.0
No. Vehicles > 75 MPH	5	9	9	6	10	6	5	7	7
% Vehicles > 75 MPH	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1

Class No	Vehicle Description	Class No	Vehicle Description
1	Car, Light Van Trailer	5	Rigid 2 Axle HGV + 2 Axle (Drive recouling) Trailer
1	Light Goods Vehicle	6	Rigid 3 Axle HGV + 2 Axle Drawbar Trailer
1	Car or Light Goods Vehicle + 1 Axle Caravan or Trailer	6	Rigid 3 Axle HGV + 3 Axle Drawbar Trailer
1	Car or Light Goods Vehicle + 2 Axle Caravan or Trailer	7	Artic. 2 Axle Tractor + 1 Axle Semi-Trailer
2	Rigid 2 Axle Heavy Goods Vehicle	8	Artic. 2 Axle Tractor + 2 Axle Semi-Trailer
3	Rigid 3 Axle Heavy Goods Vehicle	9	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer
3	Rigid 3 Axle Heavy Goods Vehicle	10	Artic. 3 Axle Tractor + 1 Axle Semi-Trailer
4	Rigid 4 Axle Heavy Goods Vehicle	10	Artic. 3 Axle Tractor + 2 Axle Semi-Trailer
4	Rigid 4 Axle Heavy Goods Vehicle	11	Artic. 3 Axle Tractor + 3 Axle Semi-Trailer
5	Rigid 2 Axle HGV + 2 Axle Drawbar Trailer	12	Bus or Coach, 2 Axle
5	Rigid 2 Axle HGV + 3 Axle Drawbar Trailer	12	Bus or Coach, 3 Axle
5	Rigid 2 Axle HGV + 1 Axle Caravan or Trailer	13	Vehicle with 7 or more Axles

Coventry ATC 01, Meriden Road

Produced by Streetwise Services Ltd.



Channel 1 - Northbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
Vehicle Flow	1806	1955	1907	1927	1519	1373	1305	1780	1685
Mean Speed	51.5	51.5	51.7	50.0	52.4	50.7	51.4	51.2	51.3
85%ile Speed	59.4	60.1	59.7	57.4	61.7	58.2	58.9	59.1	59.3
No. Vehicles > 60 MPH Limit	137	149	145	120	102	90	87	128	119
% Vehicles > 60 MPH Limit	7.6	7.6	7.6	6.2	6.7	6.6	6.7	7.1	7.0
No. Vehicles > 75 MPH	4	9	8	5	6	3	4	6	6
% Vehicles > 75 MPH	0.2	0.5	0.4	0.3	0.4	0.2	0.3	0.3	0.3

Channel 2 - Southbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
Vehicle Flow	2173	1984	1936	2123	1617	1400	1409	1925	1806
Mean Speed	45.5	46.1	44.4	44.3	45.0	45.2	46.0	45.2	45.2
85%ile Speed	53.3	54.7	50.8	53.2	52.5	53.3	54.3	53.2	53.1
No. Vehicles > 60 MPH Limit	44	47	43	36	33	20	21	38	35
% Vehicles > 60 MPH Limit	2.0	2.4	2.2	1.7	2.0	1.4	1.5	2.0	1.9
No. Vehicles > 75 MPH	1	0	0	0	2	0	0	0	0
% Vehicles > 75 MPH	0.0	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0

Channels 1+2 - Northbound & Southbound

	25/04/2023 Tuesday	26/04/2023 Wednesday	27/04/2023 Thursday	28/04/2023 Friday	29/04/2023 Saturday	30/04/2023 Sunday	01/05/2023 Monday	5-DAY MEAN	7-DAY MEAN
Vehicle Flow	3979	3939	3843	4050	3136	2773	2714	3705	3491
Mean Speed	48.5	48.8	48.0	47.1	48.7	47.9	48.7	48.2	48.3
85%ile Speed	56.3	57.4	55.2	55.3	57.1	55.7	56.6	56.2	56.2
No. Vehicles > 60 MPH Limit	181	196	188	156	135	110	108	166	153
% Vehicles > 60 MPH Limit	4.5	5.0	4.9	3.9	4.3	4.0	4.0	4.4	4.4
No. Vehicles > 75 MPH	5	9	8	5	8	3	4	6	6
% Vehicles > 75 MPH	0.1	0.2	0.2	0.1	0.3	0.1	0.1	0.2	0.2

Note: All figures are based on data from the hours 0000-0700, 0900-1600 & 1800-2400.

Appendix C

Visibility Splay Calculation

Meriden Road

Northbound

7-day average	-
Standard deviation	-
85th %ile Speed (mph)	43.4
85th %ile Wet Weather Speed (mph)	47.7
85th %ile Wet Weather Speed (kph)	65.8

SSD = $vt + v^2 / 2d$, therefore.....

Surveyed Speed (mph)

58.4

v = speed (m/s)

26.1

t = driver perception-reaction time (secs)

2

d = deceleration (m/s^2)

2.5

SSD (metres) =

191

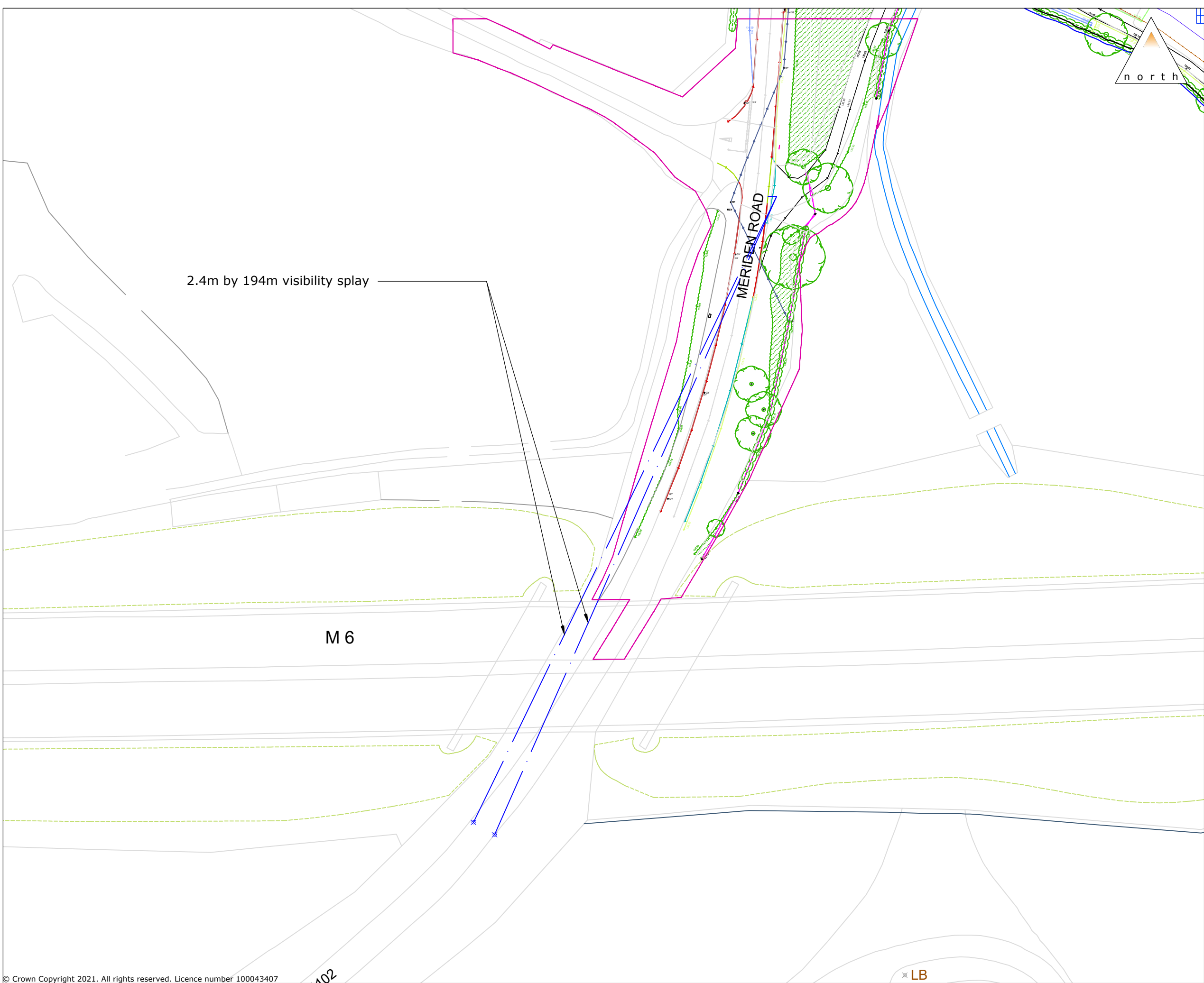
SSD (metres, adjusted for bonnet length) =

194



Appendix D

Visibility to the south of the site

C:\Users\andrewnack\Motion\StarfSite - Epfill 2210072\2210072 - 04 Visibility South.dwg



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Rev:	Description:	Date:	Rev By:	Chk'd:
A	Added Highway Boundary	09/05/23	DR	AN
KEY				
Highway Boundary 				
				
Quadrant House, Broad Street, Mall, Reading RG1 7QE				
T: 01483 531 300				
Guildford - London - Reading www.motion.co.uk				
Project: Land East of Meriden Road				
Title: Visibility Splay South of access				
Client: Enviromena				
Drawing Status:				
Scale: 1:1000 (@ A3)		Date:12/05/2023		
Drawn: AN		Checked: JNR	Approved: JNR	
Drawing:			Revision:	
2210072 - 04			-	

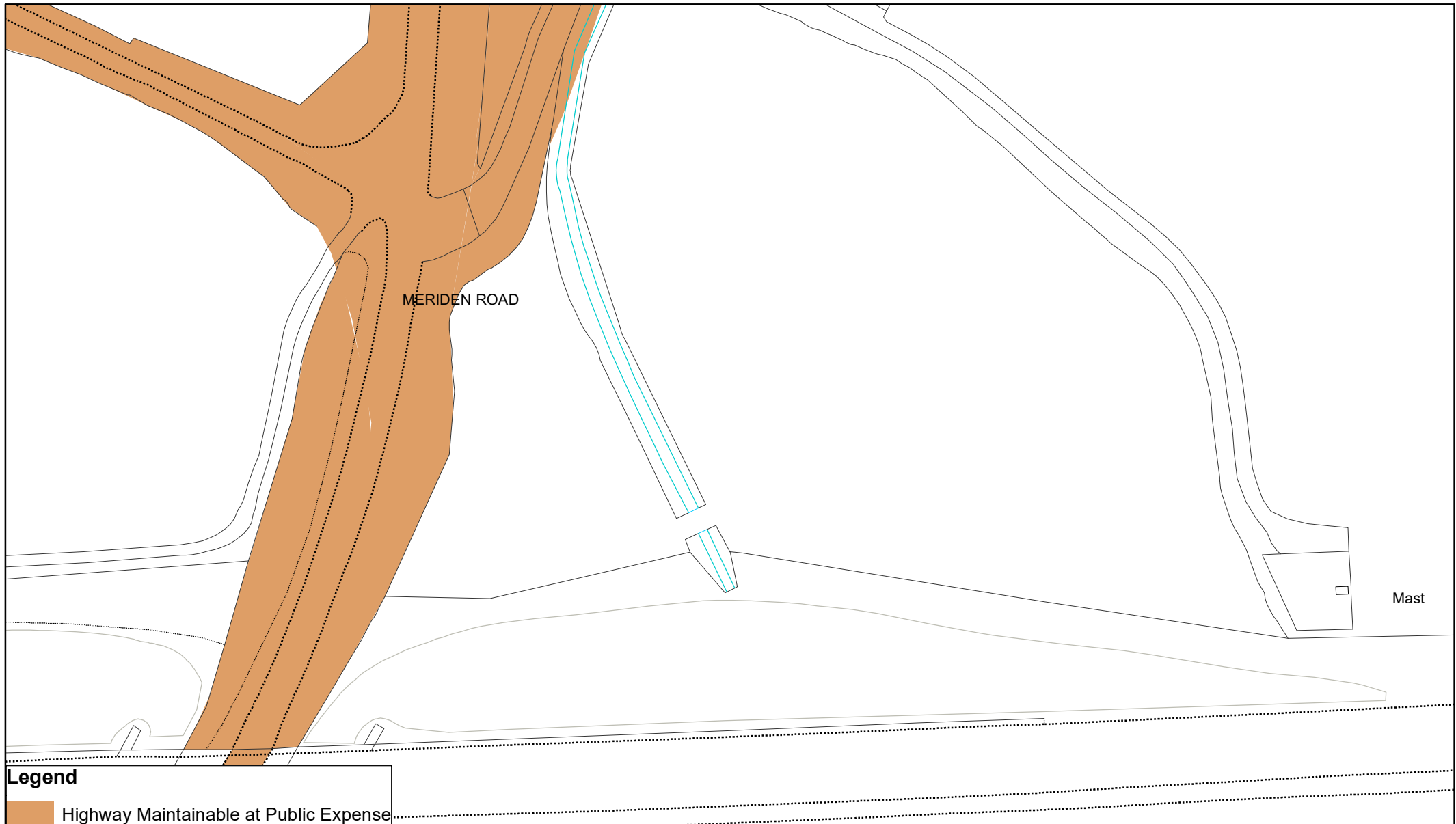
Appendix E

Swept path analysis – 16.5m HGV – Site Access

Appendix F

Highway Boundary extract

Meriden Road, Fillongley, CV7 8DX



This plan has been produced in response to the enquiry referred to in the title address and should not be used for any other purpose, as its accuracy cannot be guaranteed. This plan is based on Ordnance Survey mapping and therefore only shows the general position of the boundaries, not their exact line. Vehicular rights cannot be assumed or implied from this plan. If roadside ditches are present, the legal presumption without evidence to the contrary is that these do not form part of the publicly maintainable highway. The highway boundaries depicted on this plan are based on currently available evidence. Whilst the County Council as highway authority believes the information to be correct it should be noted as a matter of highway law that only a Court can issue the definitive interpretation on matters of highway status and extent.

