

Prepared on behalf of



J & E Dickinson

**Tyers Hill Access Improvements
Doncaster Road, Ardsley, Barnsley**

Planning Statement

Acknowledgements:

Accident Data has been obtained from www.crashmap.co.uk

Highway Adoption Information obtained from Barnsley Metropolitan Borough Council

Public Rights of Way Information obtained from Barnsley Metropolitan Borough Council

Disclaimer

The methodology adopted and the sources of information used by Sanderson Associates (Consulting Engineers) Ltd in providing its services are outlined within this Report.

Any information provided by third parties and referred to herein has not been checked or verified by Sanderson Associates (Consulting Engineers) Ltd, unless otherwise expressly stated within this report.

This report was checked and approved on the 26 February 2020 and the Report is therefore valid on this date, circumstances, regulations and professional standards do change which could subsequently affect the validity of this Report.

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1 Introduction

- 1.1 Sanderson Associates (Consulting Engineers) Ltd has been appointed by J & E Dickinson to assist with the submission of this planning application for highways works at Tyers Hill, Doncaster Road, Ardsley, Barnsley. A site location plan can be found at **Appendix A (Figure 1)** to the rear of this report.
- 1.2 These works are to improve the access to the site, including separating the commercial and residential traffic. This is to improve the safety of the road and access junctions in line with the aims of the South Yorkshire Safer Roads Partnership (SYSRP).
- 1.3 The SYSRP document *Making South Yorkshire Roads Safer: A Safer Roads Partnership Strategy 2017-2026*, published July 2017, aims to reduce the number of instances of death and injury on the roads of South Yorkshire. It does this through 'Education, Engineering and Enforcement'. As part of 'Engineering' it is the aim to "ensure the transport system is designed, as far as possible, to protect people from death and serious injury".

2 Existing Situation

2.1 Existing Site

- 2.1.1 Tyers Hall Farm is located along the A635 Doncaster Road between the villages of Ardsley and Darfield. Tyers Hall Farm is currently served from Tyers Hall Road. A second access is provided (Tyers Hill Road) which is not currently in active use.
- 2.1.2 Within the vicinity of the Tyers Hill Road access, Doncaster Road has a carriageway width of approximately 8.6m with grass verges on either flank with a footway provided along the northern side. It is subject to a 50 mph speed limit along the site frontage.
- 2.1.3 Tyers Hill Road is a rural lane which previously provided access to two residential properties and a farm.

2.2 Speed Survey

- 2.2.1 A manual radar vehicle speed survey was undertaken on 8th April 2016 on the A635, Doncaster Road, at 160m either side of its junction with Tyers Hill Road of vehicles approaching the junction.
- 2.2.2 A further radar vehicle speed survey was undertaken on 22nd June 2016.
- 2.2.3 In addition, an Automatic Traffic Count (ATC) was placed on the A635, Doncaster Road, with recordings made for a 7 day period, between 12th and 18th April 2018.
- 2.2.4 The table overleaf shows a summary of the speed surveys with the full results at **Appendix B**;

Survey Dates	Direction of travel	Average speed (mph)	85 th percentile speed (mph)
8 th April 2016	Westbound	48.4	51.6
	Eastbound	49.7	52.8
22 nd June 2016	Westbound	47.5	49.6
	Eastbound	45.8	49.1
12-18 th April 2018	Westbound	43.5	50.7
	Eastbound	47.7	54.8

Table 2.2.4 – Speed survey results

2.2.5 As can be seen from the above, the average and 85th percentile speeds are comparable across all the surveys.

2.2.6 Based on the speeds recorded, visibility spays of 2.4m x 160m are required in accordance with the guidance set out in CD123 (Design Manual for Roads and Bridges - Geometric design of at-grade priority and signal-controlled junctions), supplemented with the data contained in Table 3 of TD9/93.

2.3 Accident Data

2.3.1 The Crashmap online database has been examined to provide an initial indication of the road traffic accident history of the local highway network in the vicinity of the site. The search period is for the most recent complete 5 years that are available. The outputs obtained from the Crashmap online database are provided at **Appendix C**. The study area includes a 650m stretch of Doncaster Road which comprises 200m east of Tyers Hill Road and 200m west of the existing Tyers Hall Road site access.



Figure 2.3.2 – Crashmap extract – Incidents in the last 5 years

- 2.3.2 The data includes two incidents within the study area which were both slight in severity, no serious or fatal incidents have been recorded.
- 2.3.3 The incident to the east of Tyers Hall Road involved three cars, of which two were proceeding ahead and one car was waiting to proceed ahead but was held up.
- 2.3.4 The incident to the west of Tyers Hall Road involved two cars in a head-on collision.
- 2.3.5 No accidents have occurred within the immediate vicinity of the Tyers Hill Road access.
- 2.3.6 Although there does not appear to be a history of accidents in the area, the safety of the accesses is of concern to the operator due to the 50mph speed limit on the A635, Doncaster Road, and the number of slow moving commercial vehicles accessing and egressing the site.
- 2.3.7 Accident records from previous years have also been investigated and it is noted that three incidents occurred in the study area in 2007, one of these being fatal. It is thought that these incidents triggered the reduction in speed limit on the road from 60 to 50mph in an attempt to increase safety.

2.4 *Limit of Adoption and Public Rights of Way (PROW)*

- 2.4.1 Limit of Adoption and Public Rights of Way (PROW) data has been obtained from Barnsley MBC. A full copy of the data is attached at **Appendix D**.

3 The Proposed Development

- 3.1 It is proposed to improve the access arrangements to the site by separating the commercial and residential traffic. This is with the aim of increasing road safety and therefore hoping to prevent incidents from occurring rather than reacting to an established issue.
- 3.2 It is proposed that commercial traffic would continue to use the existing Tyers Hall Road site access in its current form. However, residential traffic would use the currently disused Tyers Hill Road which will be significantly improved. These improvements are detailed below with the drawings included at **Appendix E**.
- 3.3 **Drawings 9246-006 Rev A and 9246-004 Rev C** indicate an improved junction and access road arrangement. This has been designed to accommodate a private access arrangement. The proposals have been provided with the following:
- Right turn facility along Doncaster Road
 - Deceleration Lane (Left in from Doncaster Road)
 - 10m Junction Radii
 - 2.4 x 160m sight lines (based on DMRB requirements)
 - 5.5m carriageway width for the initial 22m of the access
 - Rationalisation of four existing passing places (as identified on **Drawing 9246-004 Rev C**)
 - Creation of two additional passing places (as identified on **Drawing 9246-004 Rev C**)
- 3.4 During pre-application discussions with Highway Officers of Barnsley Council it was agreed that a Stage 1 Road Safety Audit (RSA) would accompany the application. Report reference **10666-001-01** is attached at **Appendix F** with the corresponding Designers Response (report reference **10666-002-01**) attached at **Appendix G**.

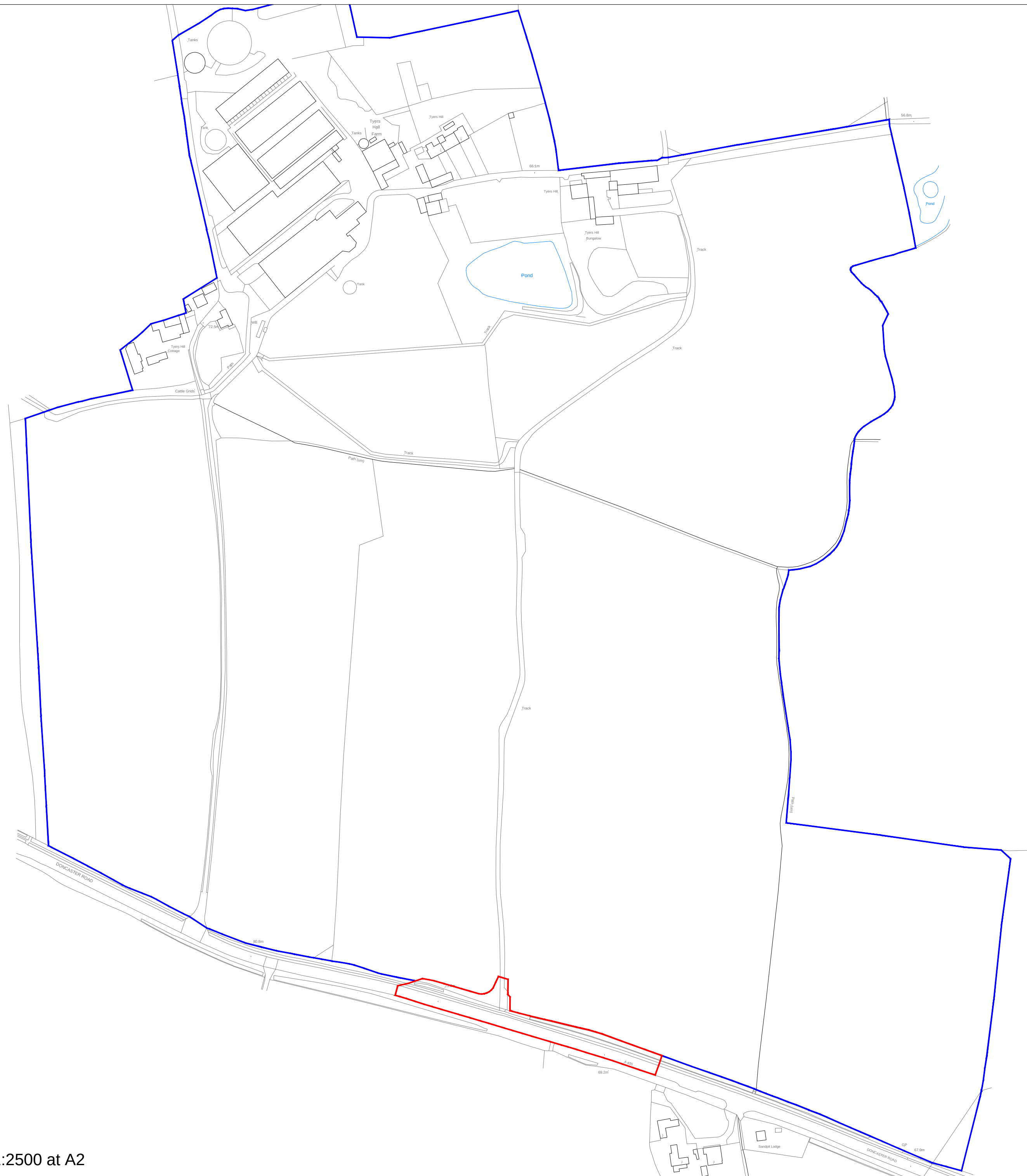
- 3.5 It should be noted that Drawing 9246-006 Rev A has been prepared following completion of the Stage 1 RSA and replaces Drawing 9246-005 Rev B which was subject to the RSA process.

4 Summary and Conclusions

- 4.1 Sanderson Associates (Consulting Engineers) Limited has been appointed by J & E Dickinson to assist with the submission of this planning application for highways works at Tyers Hill, Doncaster Road, Ardsley, Barnsley. These works are to improve access and egress to/from the site therefore increasing road safety.
- 4.2 Although there does not appear to be a history of accidents in the area, the safety of the accesses is of concern to the operator due to the 50mph speed limit on the A635, Doncaster Road, and the number of slow moving commercial vehicles accessing the site.
- 4.3 A formal Stage 1 Road Safety Audit has been undertaken and the proposed junction arrangement amended accordingly.
- 4.4 It is considered that the proposals would reduce the risk of conflict by separating commercial and residential traffic and in order to achieve this significant improvements are proposed to the currently disused Tyers Hill Road junction with Doncaster Road and the link to the residential properties.

APPENDIX A

Figure 1 – Site Location Plan



Site Location Plan - Scale 1:2500 at A2

APPENDIX B
Speed Survey Results

Speed Meter Reading - Results

Location A635 Doncaster Road, Barnsley

Direction of Travel Eastbound

Job Number 9246

Date of Survey 08.04.2016

Start Time 14:57

Finish Time 15:28

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26		51	10	76	
2		27		52	9	77	
3		28		53	6	78	1
4		29		54	5	79	
5		30		55	3	80	
6		31		56	1	81	
7		32		57	1	82	
8		33		58	3	83	
9		34		59	4	84	
10		35		60		85	
11		36		61		86	
12		37	1	62	1	87	
13		38		63		88	
14		39		64		89	
15		40	1	65		90	
16		41	2	66		91	
17		42	4	67		92	
18		43	5	68		93	
19		44	4	69		94	
20		45	3	70		95	
21		46	9	71		96	
22		47	5	72		97	
23		48	10	73		98	
24		49	8	74		99	
25		50	5	75		100	

Number of Readings = 101

Dual C'way Y/N?

n

Mean Speed = 49.683168

Single C'way Y/N?

y

Standard Deviation = 5.6230431

Wet Road Surface Y/N?

n

85 Percentile Speed = 55.306211

85 Percentile Wet Weather Speed = 52.821211 <<<<

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with <<<<.

Speed Meter Reading - Results

Location A635 Doncaster Road, Barnsley

Direction of Travel Westbound

Job Number 9246

Date of Survey 08.04.2016

Start Time 14:57

Finish Time 15:25

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26		51	5	76	
2		27		52	6	77	
3		28		53	4	78	
4		29		54	3	79	
5		30		55	3	80	
6		31		56	2	81	
7		32		57	2	82	
8		33		58	1	83	
9		34		59	1	84	
10		35		60	1	85	
11		36	1	61	1	86	
12		37		62	1	87	
13		38		63		88	
14		39	2	64		89	
15		40	6	65		90	
16		41	4	66		91	
17		42	4	67		92	
18		43	2	68	1	93	
19		44	2	69		94	
20		45	10	70		95	
21		46	9	71		96	
22		47	6	72		97	
23		48	6	73		98	
24		49	7	74		99	
25		50	10	75		100	

Number of Readings = 100

Dual C'way Y/N?

n

Mean Speed = 48.37

Single C'way Y/N?

y

Standard Deviation = 5.6794064

Wet Road Surface Y/N?

n

85 Percentile Speed = 54.049406

85 Percentile Wet Weather Speed = 51.564406 <<<<

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with <<<<.

Speed Meter Reading - Results

Location A635 Doncaster Road, Barnsley

Direction of Travel Eastbound

Job Number 9246

Date of Survey 22.06.2016

Start Time 14:13

Finish Time 14:55

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26		51	4	76	
2		27		52	1	77	
3		28	1	53	3	78	
4		29		54		79	
5		30		55	1	80	
6		31		56	1	81	
7		32		57		82	
8		33		58	1	83	
9		34		59		84	
10		35		60		85	
11		36	2	61		86	
12		37	2	62		87	
13		38		63		88	
14		39	5	64	1	89	
15		40	6	65		90	
16		41	1	66	2	91	
17		42	8	67		92	
18		43	9	68		93	
19		44	7	69		94	
20		45	11	70		95	
21		46	12	71		96	
22		47	7	72		97	
23		48	4	73		98	
24		49	4	74		99	
25		50	7	75		100	

Number of Readings = 100

Dual C'way Y/N?

n

Mean Speed = 45.75

Single C'way Y/N?

y

Standard Deviation = 5.7881366

Wet Road Surface Y/N?

n

85 Percentile Speed = 51.538137

85 Percentile Wet Weather Speed = 49.053137 <<<<

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with <<<<.

Speed Meter Reading - Results

Location A635 Doncaster Road, Barnsley

Direction of Travel Westbound

Job Number 9246

Date of Survey 22.06.2016

Start Time 14:13

Finish Time 14:55

Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings	Speed	No. of Readings
1		26		51	9	76	
2		27		52	3	77	
3		28		53	2	78	
4		29		54	3	79	
5		30		55	4	80	
6		31		56	1	81	
7		32		57		82	
8		33		58	1	83	
9		34		59	1	84	
10		35		60	1	85	
11		36		61		86	
12		37		62		87	
13		38	3	63		88	
14		39	4	64		89	
15		40	1	65		90	
16		41	2	66		91	
17		42	4	67		92	
18		43	4	68		93	
19		44	5	69		94	
20		45	8	70		95	
21		46	10	71		96	
22		47	12	72		97	
23		48	10	73		98	
24		49	7	74		99	
25		50	5	75		100	

Number of Readings = 100

Dual C'way Y/N?

n

Mean Speed = 47.45

Single C'way Y/N?

y

Standard Deviation = 4.6523047

Wet Road Surface Y/N?

n

85 Percentile Speed = 52.102305

85 Percentile Wet Weather Speed = 49.617305 <<<<

Note: Insert Y or N in boxes against carriageway type and road surface condition and then use 85 percentile speed as marked with <<<<.

Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

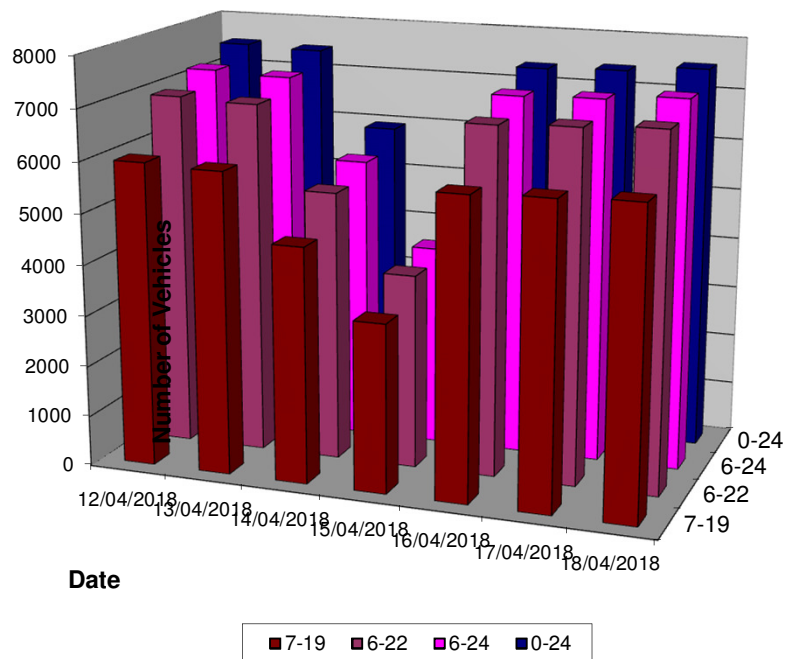
Channel 1 - Westbound

Vehicle Flow

Week 1

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday	5 Day Ave	7 Day Ave
1	42	40	72	81	45	36	48	42	52
2	25	32	74	65	24	32	28	28	40
3	27	32	69	72	19	31	32	28	40
4	21	12	28	34	19	10	16	16	20
5	38	56	48	35	33	52	47	45	44
6	135	125	79	54	139	125	127	130	112
7	304	313	143	44	293	324	321	311	249
8	575	628	190	76	565	607	601	595	463
9	633	627	258	129	633	620	624	627	503
10	465	428	326	181	455	432	451	446	391
11	447	419	444	321	441	410	437	431	417
12	435	415	463	410	436	423	405	423	427
13	481	485	521	427	464	510	482	484	481
14	472	479	510	359	451	466	491	472	461
15	455	452	460	366	440	460	450	451	440
16	484	533	437	311	484	561	512	515	475
17	519	478	359	258	516	452	502	493	441
18	556	545	350	258	553	532	561	549	479
19	449	433	305	222	418	437	454	438	388
20	286	278	214	161	284	270	276	279	253
21	226	229	184	166	222	219	222	224	210
22	162	154	129	128	159	152	159	157	149
23	135	134	121	74	129	128	144	134	124
24	132	129	162	62	135	118	134	130	125
7-19	5971	5922	4623	3318	5856	5910	5970	5926	5367
6-22	6949	6896	5293	3817	6814	6875	6948	6896	6227
6-24	7216	7159	5576	3953	7078	7121	7226	7160	6476
0-24	7504	7456	5946	4294	7357	7407	7524	7450	6784

Vehicle Flow (Channel 1)



Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

Channel 1 - Westbound

Average Speed

Week 1

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday
1	45.9	43.7	42.1	43.1	46.3	46.5	45.7
2	47.4	47.8	42.5	42.4	47.0	49.5	45.8
3	47.5	48.1	43.8	42.6	47.1	45.3	45.7
4	43.0	42.7	41.9	43.4	45.2	41.8	44.1
5	48.3	47.0	45.3	42.4	47.0	47.8	48.5
6	45.2	45.7	43.4	43.0	45.6	46.1	45.6
7	45.8	45.7	42.6	43.2	45.6	45.3	45.4
8	43.9	43.9	42.7	42.2	43.7	43.9	43.8
9	43.7	43.5	43.0	42.6	43.5	43.2	43.6
10	43.5	43.2	42.8	43.3	43.0	43.2	43.1
11	43.1	43.0	42.8	43.5	43.0	42.9	42.5
12	43.3	43.3	42.3	43.5	42.9	43.3	43.3
13	43.4	43.9	42.4	43.0	43.6	43.4	44.0
14	43.7	43.6	43.4	43.1	44.4	43.5	43.9
15	43.4	42.8	43.5	42.8	42.6	43.6	43.5
16	41.7	41.0	43.5	42.8	42.0	40.6	40.8
17	43.3	43.2	42.9	42.4	42.9	43.3	43.0
18	40.6	41.8	43.4	43.0	40.7	41.3	41.1
19	45.5	45.4	42.8	42.9	45.6	45.1	45.4
20	45.8	45.9	42.7	42.6	45.8	45.5	45.9
21	45.9	46.1	42.5	43.1	46.4	45.9	45.8
22	45.7	45.0	43.0	42.8	45.5	45.0	45.3
23	45.3	45.1	43.9	42.4	44.5	44.8	45.7
24	46.5	44.9	43.7	42.1	44.0	44.9	45.1

10-12	43.2	43.1	42.6	43.5	42.9	43.1	42.9
14-16	42.5	41.8	43.5	42.8	42.3	41.9	42.0
0-24	43.8	43.7	43.0	42.9	43.6	43.6	43.7

Average	43.5
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Channel 1 - Westbound

85th Percentile

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday
1	54.8	49.2	47.6	49.7	54.4	56.8	53.4
2	56.7	56.2	47.8	49.2	52.7	56.6	52.7
3	61.7	56.2	52.1	49.6	58.0	54.9	54.3
4	52.6	46.9	46.9	49.7	56.9	49.9	52.4
5	56.8	53.2	51.3	46.7	57.0	55.1	57.2
6	52.3	52.3	52.2	49.1	53.0	51.4	52.8
7	53.2	52.9	48.9	50.5	53.4	53.1	52.5
8	50.9	49.9	49.0	48.2	50.2	50.4	50.0
9	49.9	50.8	49.1	48.1	50.5	50.6	50.4
10	49.6	49.5	48.4	50.5	48.9	50.1	49.8
11	50.2	50.4	50.1	50.9	49.5	51.0	50.2
12	50.5	49.7	47.8	49.7	50.2	50.2	50.3
13	49.7	50.4	50.4	49.6	50.0	49.4	49.9
14	49.8	50.9	49.6	50.0	51.5	51.3	50.9
15	50.9	50.1	50.6	50.0	50.3	50.4	51.3
16	50.2	49.2	50.3	49.4	49.9	47.9	48.8
17	50.0	50.9	50.7	49.6	50.0	50.3	49.5
18	49.2	51.7	51.3	48.3	50.2	49.5	49.2
19	52.9	52.4	49.2	48.8	53.1	52.2	52.7
20	52.9	53.3	51.1	49.4	52.6	51.5	53.5
21	52.5	54.6	48.3	49.7	53.3	52.4	53.5
22	52.4	51.8	49.5	49.5	53.5	53.2	52.6
23	51.1	51.7	51.8	49.6	51.3	50.1	52.7
24	55.2	53.5	50.6	48.0	51.3	54.3	52.2

10-12	50.4	50.2	48.5	50.4	49.8	50.6	50.3
14-16	50.6	49.6	50.5	49.8	49.9	49.1	49.8
0-24	51.1	51.2	49.8	49.7	50.9	50.8	50.8

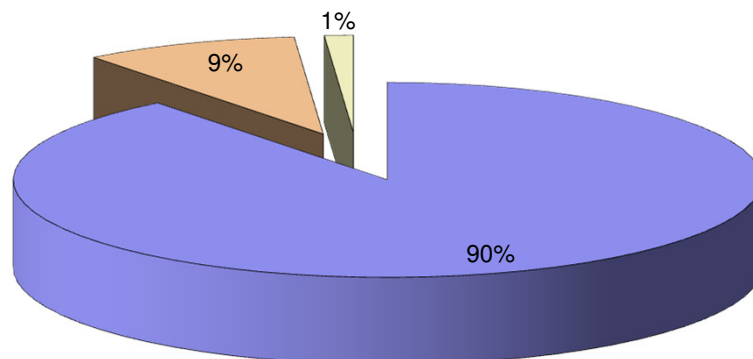
85th %ile	50.7
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Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

Channel 1 - Westbound		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	
12/04/2018					
7-19	5337	566	68	5971	
6-22	6223	644	82	6949	
6-24	6473	657	86	7216	
0-24	6711	695	98	7504	
13/04/2018					
7-19	5313	549	60	5922	
6-22	6192	632	72	6896	
6-24	6441	642	76	7159	
0-24	6688	679	89	7456	
14/04/2018					
7-19	4192	394	37	4623	
6-22	4785	463	45	5293	
6-24	5052	475	49	5576	
0-24	5335	534	77	5946	
15/04/2018					
7-19	2962	329	27	3318	
6-22	3419	365	33	3817	
6-24	3544	372	37	3953	
0-24	3856	389	49	4294	
16/04/2018					
7-19	5203	585	68	5856	
6-22	6069	665	80	6814	
6-24	6316	678	84	7078	
0-24	6549	714	94	7357	
17/04/2018					
7-19	5273	577	60	5910	
6-22	6139	663	73	6875	
6-24	6372	672	77	7121	
0-24	6612	703	92	7407	
18/04/2018					
7-19	5354	555	61	5970	
6-22	6230	645	73	6948	
6-24	6494	655	77	7226	
0-24	6737	695	92	7524	
Average					
7-19	4805	508	54	5367	
6-22	5580	582	65	6227	
6-24	5813	593	69	6476	
0-24	6070	630	84	6784	

Total Vehicle Class Distribution



Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

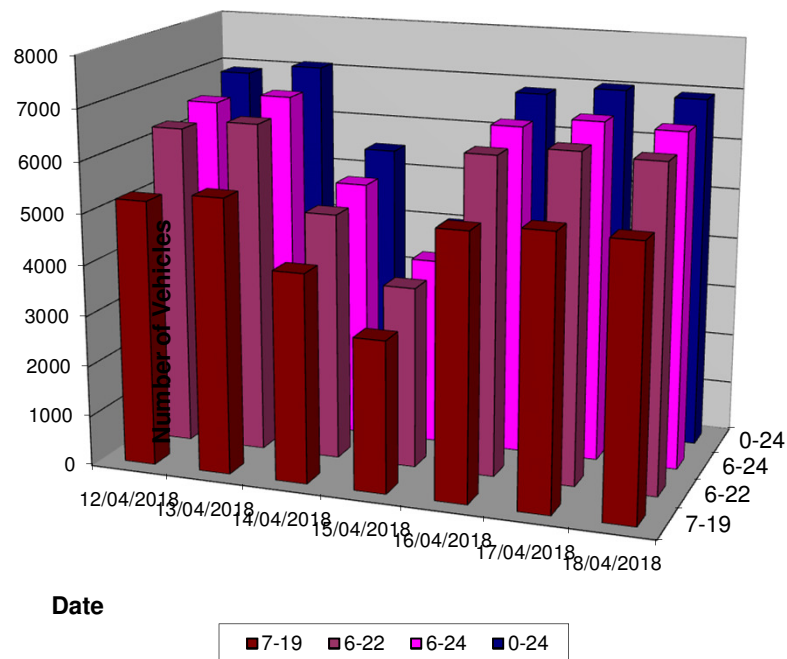
Channel 2 - Eastbound

Vehicle Flow

Week 1

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday	5 Day Ave	7 Day Ave
1	23	30	50	50	29	30	27	28	34
2	20	14	48	44	23	19	16	18	26
3	18	27	63	56	25	25	23	24	34
4	27	24	43	46	27	24	26	26	31
5	56	53	56	43	65	56	52	56	54
6	201	190	113	79	191	175	188	189	162
7	339	320	144	44	339	313	330	328	261
8	488	506	158	63	472	495	494	491	382
9	552	560	233	115	542	547	554	551	443
10	399	411	295	165	398	397	420	405	355
11	363	365	363	269	360	337	369	359	347
12	370	385	415	370	367	383	392	379	383
13	438	483	489	404	433	456	455	453	451
14	471	483	511	358	453	490	450	469	459
15	377	412	382	314	356	405	375	385	374
16	331	330	272	202	327	331	320	328	302
17	499	473	348	258	506	461	479	484	432
18	524	553	347	257	551	551	536	543	474
19	421	459	311	225	435	474	448	447	396
20	279	286	212	160	261	292	271	278	252
21	268	294	229	207	255	304	269	278	261
22	201	195	163	165	199	201	204	200	190
23	166	163	148	91	167	159	167	164	152
24	76	90	100	39	70	97	77	82	78
7-19	5233	5420	4124	3000	5200	5327	5292	5294	4799
6-22	6320	6515	4872	3576	6254	6437	6366	6378	5763
6-24	6562	6768	5120	3706	6491	6693	6610	6625	5993
0-24	6907	7106	5493	4024	6851	7022	6942	6966	6335

Vehicle Flow (Channel 2)



Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

Channel 2 - Eastbound

Average Speed

Week 1

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday
1	49.6	52.7	50.1	48.8	51.7	51.2	51.8
2	45.7	46.3	47.5	48.0	48.0	41.5	47.4
3	52.3	51.0	44.7	48.3	52.5	50.0	52.8
4	52.5	50.7	48.2	48.0	50.9	49.8	49.3
5	51.0	51.0	47.8	48.3	51.3	51.9	53.0
6	52.5	52.6	47.5	48.4	51.6	53.6	53.0
7	49.1	48.8	47.8	48.4	48.6	49.4	49.2
8	47.0	46.8	49.2	47.1	47.2	47.0	46.9
9	46.9	46.3	48.4	47.7	47.0	45.9	46.4
10	46.3	46.1	48.7	47.9	46.4	46.8	46.2
11	45.2	46.0	48.8	48.1	45.4	45.7	45.4
12	47.2	47.4	46.1	47.6	47.5	47.0	46.6
13	47.7	47.3	47.9	48.5	47.7	47.5	48.0
14	46.6	46.6	48.4	48.6	46.2	46.7	46.3
15	45.2	44.9	47.8	48.4	45.5	45.2	45.9
16	47.0	46.4	46.8	48.8	47.0	46.2	47.3
17	45.9	46.0	48.8	48.4	46.3	46.2	46.2
18	47.5	47.8	48.2	48.5	47.5	48.2	47.7
19	50.2	49.7	48.4	49.0	49.7	50.0	49.6
20	49.9	49.6	48.1	48.5	49.6	50.1	49.7
21	48.9	49.8	47.7	48.4	48.6	49.2	49.4
22	49.4	50.0	47.6	48.3	49.2	49.4	49.5
23	48.1	49.9	49.4	48.3	47.7	48.8	49.2
24	50.0	49.6	46.8	48.4	49.6	50.6	49.0
10-12	46.2	46.7	47.3	47.8	46.4	46.4	46.0
14-16	46.1	45.6	47.4	48.6	46.2	45.6	46.5
0-24	47.6	47.6	48.0	48.3	47.6	47.7	47.6

Average 47.7

Channel 2 - Eastbound

85th Percentile

Hr Ending	12/04/2018 Thursday	13/04/2018 Friday	14/04/2018 Saturday	15/04/2018 Sunday	16/04/2018 Monday	17/04/2018 Tuesday	18/04/2018 Wednesday
1	59.7	65.7	57.3	55.3	61.4	59.7	62.5
2	52.0	54.7	51.6	51.4	56.6	50.4	55.4
3	62.9	59.1	52.4	54.2	60.5	57.6	61.9
4	58.6	56.3	56.2	54.8	56.5	56.2	57.8
5	58.9	57.9	53.9	56.0	58.8	60.6	63.0
6	62.5	61.6	51.3	55.1	59.1	64.7	61.3
7	56.1	55.9	55.0	53.4	55.8	56.5	56.6
8	53.6	53.9	56.3	51.7	53.1	53.9	53.5
9	53.8	52.5	56.2	52.7	53.6	52.4	53.7
10	53.7	52.5	55.2	54.8	54.4	54.6	53.6
11	52.9	52.6	54.3	52.4	52.3	51.6	51.4
12	53.9	53.3	53.6	52.7	53.7	55.0	52.7
13	53.7	54.6	54.5	55.7	54.5	55.0	54.9
14	52.5	53.3	56.3	54.8	52.9	54.2	53.1
15	51.9	52.1	54.2	55.5	52.4	51.8	52.1
16	54.5	54.4	52.3	56.3	54.8	53.4	55.3
17	53.5	52.6	56.4	53.9	52.9	52.8	53.6
18	54.0	54.8	54.7	54.1	54.3	55.3	54.8
19	56.8	57.8	55.7	54.9	57.7	57.2	56.9
20	57.8	57.8	53.9	55.6	56.8	57.6	56.5
21	56.4	55.7	55.4	55.0	56.4	56.7	56.9
22	57.4	57.0	54.4	54.9	56.2	55.8	56.5
23	56.4	59.1	56.1	52.1	54.6	57.4	58.9
24	57.9	57.2	52.9	53.0	56.2	56.9	56.3
10-12	53.2	53.1	54.1	52.5	53.3	53.3	51.9
14-16	53.1	52.9	53.6	56.0	53.5	52.7	53.2
0-24	55.1	54.7	54.7	54.6	54.8	55.2	54.8

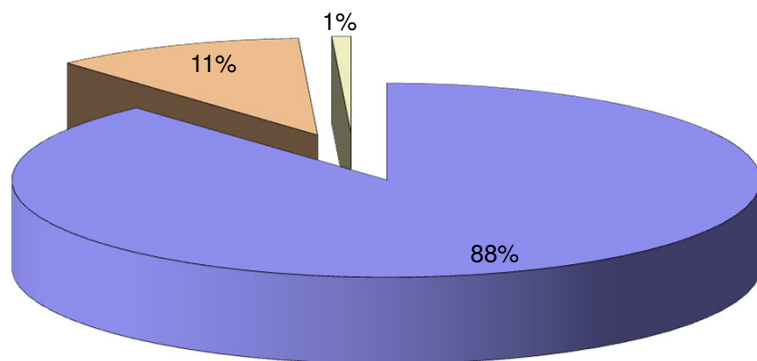
85th %ile 54.8

Darfield ATC, A635 Doncaster Road

Produced by Road Data Services Ltd.

Channel 2 - Eastbound		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	
12/04/2018					
7-19	4596	593	44	5233	
6-22	5602	666	52	6320	
6-24	5827	682	53	6562	
0-24	6110	737	60	6907	
13/04/2018					
7-19	4732	642	46	5420	
6-22	5741	722	52	6515	
6-24	5980	736	52	6768	
0-24	6257	790	59	7106	
14/04/2018					
7-19	3688	409	27	4124	
6-22	4370	470	32	4872	
6-24	4604	483	33	5120	
0-24	4882	567	44	5493	
15/04/2018					
7-19	2626	355	19	3000	
6-22	3164	389	23	3576	
6-24	3282	400	24	3706	
0-24	3571	426	27	4024	
16/04/2018					
7-19	4585	576	39	5200	
6-22	5560	647	47	6254	
6-24	5778	665	48	6491	
0-24	6072	724	55	6851	
17/04/2018					
7-19	4639	644	44	5327	
6-22	5659	729	49	6437	
6-24	5899	745	49	6693	
0-24	6165	800	57	7022	
18/04/2018					
7-19	4628	618	46	5292	
6-22	5623	689	54	6366	
6-24	5852	703	55	6610	
0-24	6121	759	62	6942	
Average					
7-19	4213	548	38	4799	
6-22	5103	616	44	5763	
6-24	5317	631	45	5993	
0-24	5597	686	52	6335	

Total Vehicle Class Distribution



APPENDIX C
Crashmap Accident Reports



Crash Date:	Wednesday, May 28, 2014	Time of Crash:	3:40:00 PM	Crash Reference:	201414B048914
Highest Injury Severity:	Slight	Number of Vehicles:	3	Number of Casualties:	2
Highway Authority:	Barnsley			OS Grid Reference:	439688 405452
Local Authority:	Barnsley Metropolitan Borough				
Road Number:	A635	Road Type:	Single carriageway		
Weather Description:	Unknown				
Road Surface Description:	Wet or Damp				
Speed Limit:	50	Junction Control:	Give way or uncontrolled		
Light Conditions:	Daylight: regardless of presence of streetlights				
Carriageway Hazards:	None				
Junction Detail:	T or staggered junction				
Junction Pedestrian Crossing:	No physical crossing facility within 50 metres				

Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	Driver Age Band	Vehicle Manoeuvre
1	Car (excluding private hire cars 2005 onwards)	9	Male	26 - 35	Vehicle proceeding normally along the carriageway, not on a bend
2	Car (excluding private hire cars 2005 onwards)	9	Male	36 - 45	Vehicle is waiting to proceed normally but is held up
3	Car (excluding private hire cars 2005 onwards)	10	Male	46 - 55	Vehicle proceeding normally along the carriageway, not on a bend

For more information about the data please visit: <http://www.crashmap.com/home/aboutthedata> and <http://www.crashmap.com/home/definitions>



Casualties

Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
1	1	Slight	Driver or rider	Male	26 - 35	Unknown or other	Unknown or other
3	2	Slight	Driver or rider	Male	46 - 55	Unknown or other	Unknown or other

For more information about the data please visit: <http://www.crashmap.com/home/aboutthedata> and <http://www.crashmap.com/home/definitions>



crashmap.co.uk

Crash Date: Tuesday, November 29, 2016 **Time of Crash:** 11:15:00 PM **Crash Reference:** 2016140134876

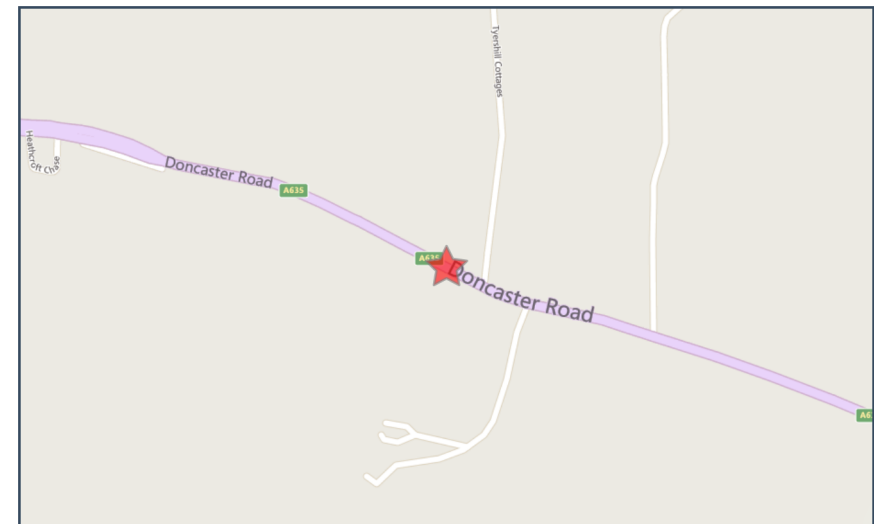
Highest Injury Severity: Slight
Highway Authority: Barnsley
Local Authority: Barnsley Metropolitan Borough
Weather Description: Fine without high winds
Road Surface Description: Frost or Ice
Speed Limit: 50
Light Conditions: Darkness: street lights present and lit
Carriageway Hazards: None
Junction Detail: Not at or within 20 metres of junction
Junction Pedestrian Crossing: No physical crossing facility within 50 metres
Road Type: Single carriageway
Junction Control: Not Applicable

Road Number: A635

Number of Casualties: 1

Number of Vehicles: 2

OS Grid Reference: 439579 405502



For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions



Vehicles involved

Vehicle Ref	Vehicle Type	Vehicle Age	Driver Gender	Driver Age Band	Vehicle Manoeuvre	First Point of Impact	Journey Purpose	Hit Object - On Carriageway	Hit Object - Off Carriageway
1	Car (excluding private hire)	4	Male	21 - 25	Vehicle proceeding normally along the carriageway, not on a bend	Front	Other	None	None
2	Car (excluding private hire)	11	Male	21 - 25	Vehicle proceeding normally along the carriageway, not on a bend	Front	Commuting to/from work	None	None

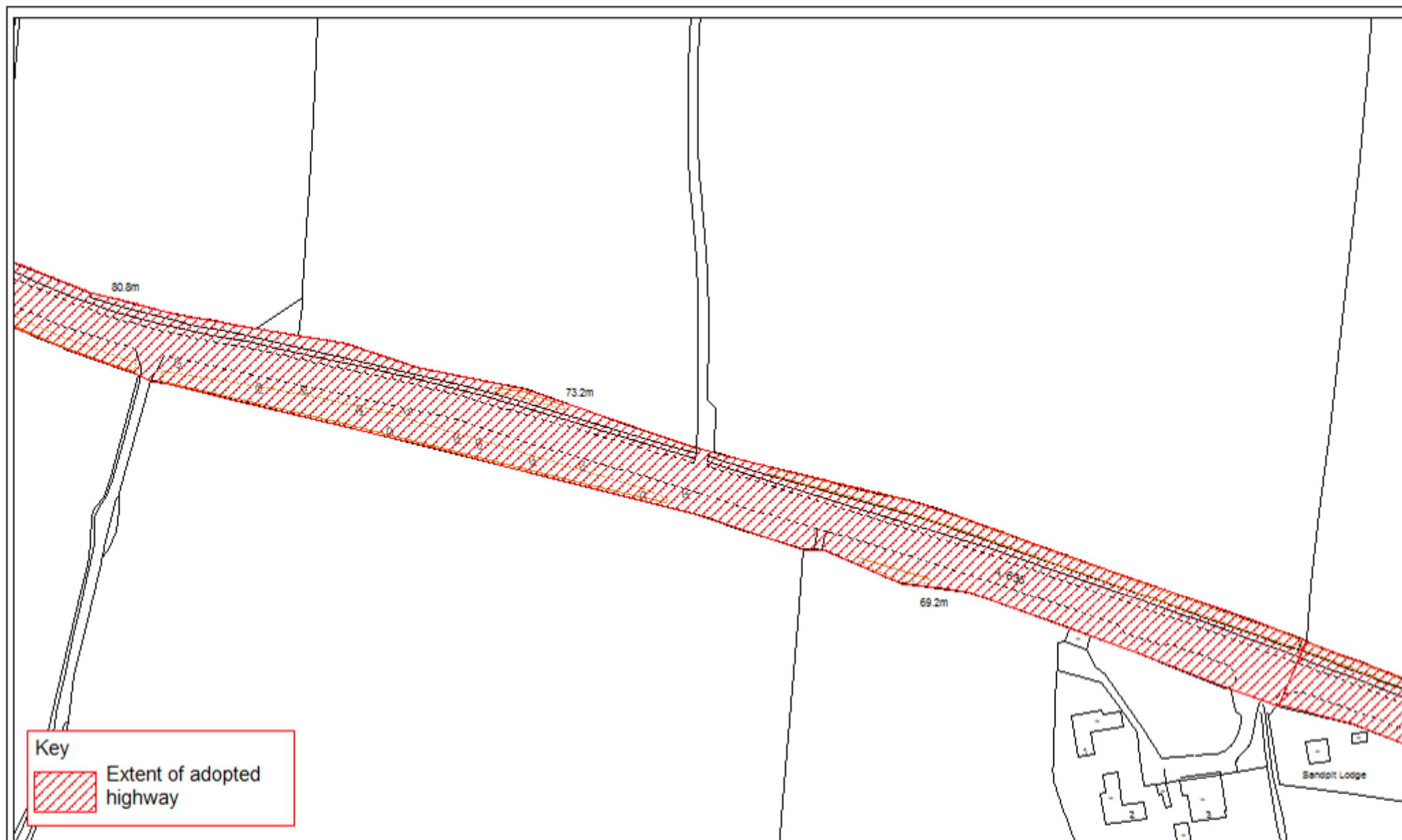
Casualties

Vehicle Ref	Casualty Ref	Injury Severity	Casualty Class	Gender	Age Band	Pedestrian Location	Pedestrian Movement
2	1	Slight	Driver or rider	Male	21 - 25	Unknown or other	Unknown or other

For more information about the data please visit: www.crashmap.co.uk/home/aboutthedata and www.crashmap.co.uk/home/definitions

APPENDIX D

Limit of Adoption and Public Rights of Way (PROW)



Scale 1: NTS

Drawn by: AJ

Project: Doncaster Road
Ardsley
Drawing: Extent of adopted highway



BARNSELEY
Metropolitan Borough Council

**Environment & Transport
Place Directorate**

OS Sheet: .Sh

Date: April 2016



Please note that other, unrecorded paths may also have acquired public rights through use over time. Therefore any physical routes that appear to be used by the public should also be taken into consideration.

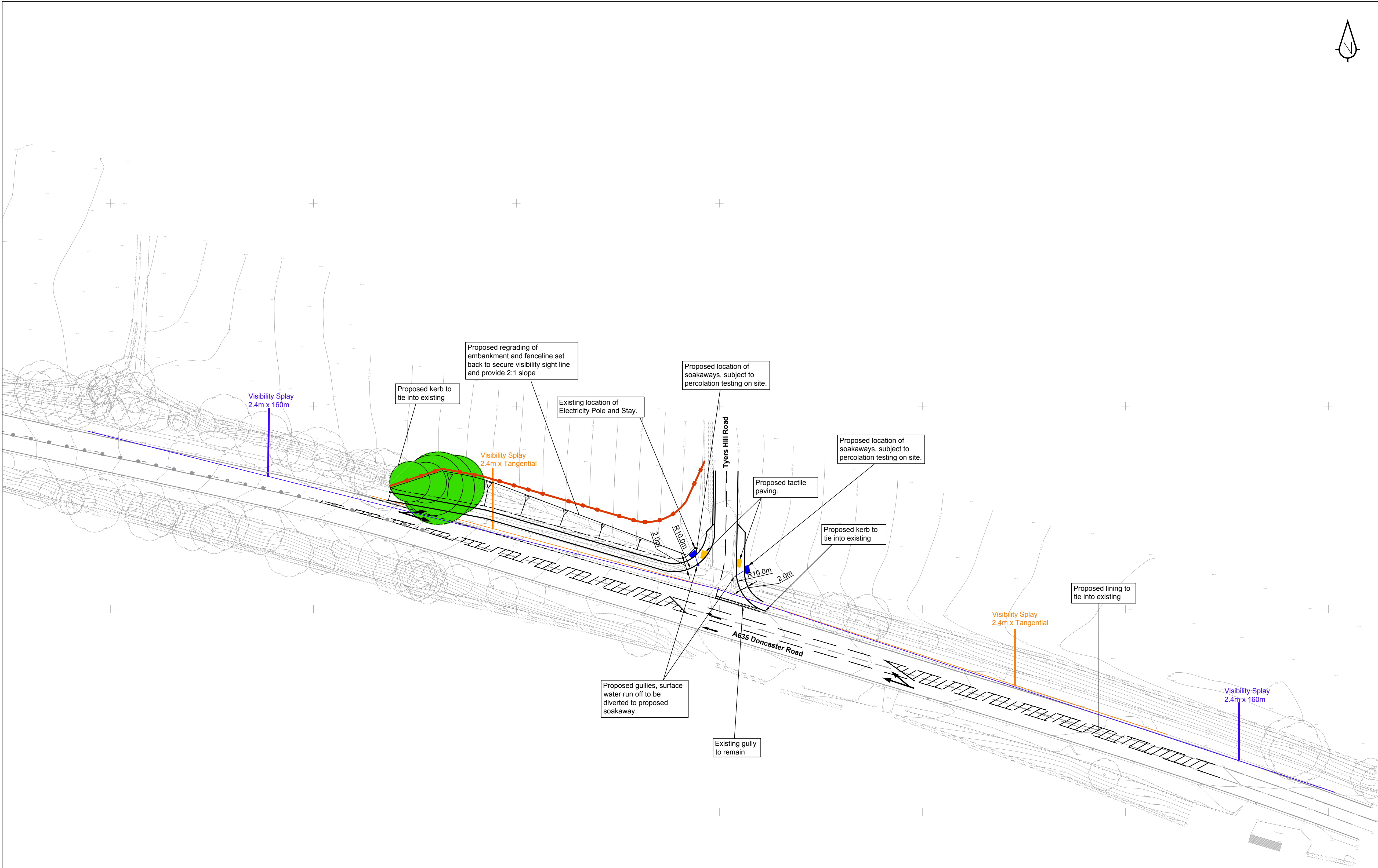
Public footpaths —————

Public bridleways —————

%

APPENDIX E

Drawing 9246-006 Rev A – Proposed Junction Improvements
Drawing 9246-004 Rev C – Proposed Access Road Improvements



- Notes:
- The proposed lane widths are in compliance with the existing lane width dimensions at the 'Brookfields' access; which is located approximately 500m east of the Tyres Hill Farm access.
- Key:
- Assumed limit of adopted highway
 - Proposed gully
 - Proposed fence line
 - Electricity pole and stay
 - Trees to be removed

A	Lining amended	SB	Oct 19	KS
Rev	Amendment	Drawn	Date	Checked

sa sanderson
associates
(consulting engineers) ltd
Highways | Traffic | Transportation | Water
T 01924 844080 mail@sandersonassociates.co.uk
F 01924 844081 www.sandersonassociates.co.uk

Client
J and E Dickinson

Project Title
Tyers Hill Access Improvements
Doncaster Road, Ardsley, Barnsley

Drawing Title
Proposed Access and Visibility
Tyers Hill Road

Scale 1:500 @ A1	Drawn By LOB
Drawing Size A1	Checked By PJM
Date Sept 2019	Approved By PJM
Drawing Number 9246/006	Rev A



Vehicle Specification	
Large Car (2006)	5.079m
Overall Length	1.872m
Overall Width	1.526m
Overall Body Height	0.310m
Min Body Ground Clearance	1.851m
Max Track Width	4.00s
Lock to Lock Time	5.900m
Kerb to Kerb Turning Radius	

 sanderson [®] associates (consulting engineers) ltd Highways Traffic Transportation Water T 01924 844080 mail@sandersonassociates.co.uk F 01924 844081 www.sandersonassociates.co.uk	Client J and E Dickinson	Project Title Tyers Hill Access Improvements Doncaster Road, Ardsley, Barnsley	Drawing Title Proposed Access Road Tyers Hill Road	Rev C Junction arrangement amended B Drawing title amended A Access Amended	Drawn CH CH SB	Date Oct 19 Aug 18 May 16	Checked KS KS KS	Scale 1:500 @ A0	Drawn By LOB
								Drawing Size A0	Checked By SB
								Date May 2016	Approved By SB
								Drawing Number 9246/004	Rev C