



NR25

Censuses

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

**SURVEY REPORT
JUNE-JULY 2016**

3267-LON SITE S02 BRANTHAM HIGH BRIDGE LEVEL CROSSING

Job Number	3267-LON-S02
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Brantham High Bridge Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Brantham High Bridge Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 14:15 on Day 5 with 3 pedestrians.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S02, Brantham High Bridge Level Crossing, is Wednesday the 29th of June.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 28/06/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	6	6
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 02/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 03/07/2016	0	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0	6	8

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Cloudy	Sunny, Cloudy
Sunday	26/06/2016	Sunny, Cloudy	Sunny, Cloudy
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Cloudy	Sunny, Cloudy
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Overcast, Rain	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S02 High Bridge 9-Day Census”

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LEVEL CROSSING TRAFFIC CENSUS

**SURVEY REPORT
JUNE-JULY 2016**

3267-LON SITE S04 ISLAND LEVEL CROSSING

Job Number	3267-LON-S04
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Island Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Island Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:15 on Day 4 with 10 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S04, Island Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	2	0	0	0	0	0	0	0	0	2
Monday 27/06/2016	1	0	0	0	0	0	0	0	2	3
Tuesday 28/06/2016	13	0	0	0	0	0	0	0	0	13
Wednesday 29/06/2016	6	0	0	0	0	0	0	0	0	6
Thursday 30/06/2016	3	0	0	0	0	0	0	0	0	3
Friday 01/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 02/07/2016	7	0	0	0	0	0	0	0	0	7
Sunday 03/07/2016	4	0	0	0	0	0	0	0	0	4
	37	0	0	0	0	0	0	0	2	39

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Cloudy
Sunday	26/06/2016	Dry, Cloudy	Sunny, Clear
Monday	27/06/2016	Dry, Sunny, Clear	Dry, Sunny, Clear
Tuesday	28/06/2016	Dry, Sunny, Clear	Dry, Sunny, Clear
Wednesday	29/06/2016	Dry, Sunny, Clear	Dry, Sunny, Clear
Thursday	30/06/2016	Dry, Sunny, Clear	Dry, Sunny, Clear
Friday	01/07/2016	Dry, Cloudy	Dry, Cloudy
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Dry, Sunny, Clear	Dry, Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON S04 Island Census”

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LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S05 PANNINGTON HALL LEVEL CROSSING

Job Number	3267-LON-S05
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Pannington Hall Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Pannington Hall Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:30 on Day 2 with 2 pedestrians.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S05 Pannington Level Crossing, is Friday 01st July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	1	0	0	0	0	0	0	0	0	1
Sunday 26/06/2016	3	0	0	0	0	0	0	0	0	3
Monday 27/06/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 28/06/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 29/06/2016	1	0	0	0	0	0	0	0	0	1
Thursday 30/06/2016	1	0	0	0	0	0	0	0	0	1
Friday 01/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 02/07/2016	3	0	0	0	0	0	0	0	0	3
Sunday 03/07/2016	6	0	2	0	0	0	0	0	0	8
	20	0	2	0	0	0	0	0	0	22

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Clear
Sunday	26/06/2016	Sunny, Clear	Sunny, Clear
Monday	27/06/2016	Sunny, Windy, Passing Clouds	Sunny, Windy, Passing Clouds
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Clear	Sunny, Clear
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Sunny, Clear	Sunny, Clear
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON S05 Pannington Hall 9-Day Census”

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LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S07 BROOMFIELD LEVEL CROSSING

Job Number	3267-LON-S07
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Broomfield Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

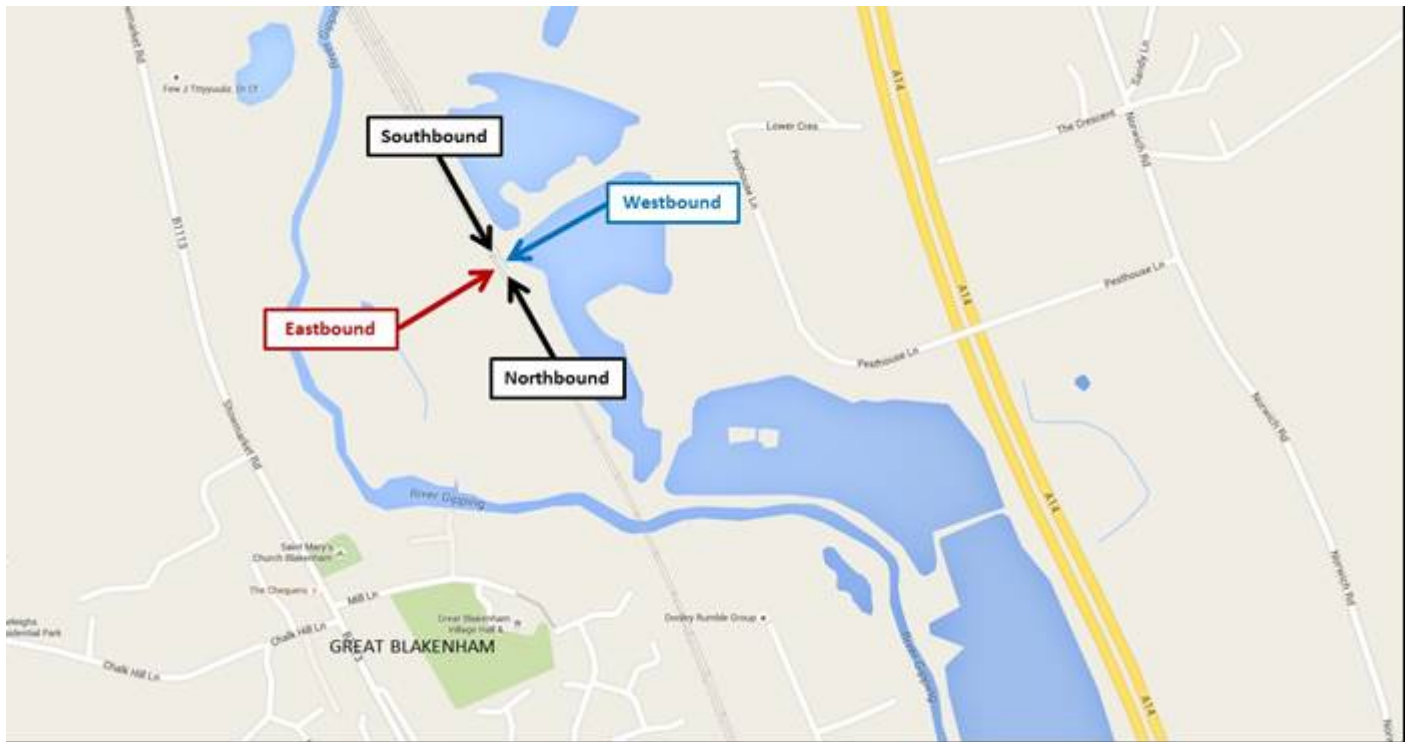
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Broomfield Level Crossing – Busiest Quarter Hourly Periods

For Pedestrians, the busiest quarter hourly period occurred at 19:00 on Day 8 with 2 Walking Cyclists.

For Pedestrians, the busiest quarter hourly period occurred at 15:30 on Day 8 with 8 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S07 Broomfield Level Crossing, is Sunday 26th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	10	0	0	0	0	0	0	0	0	10
Sunday 26/06/2016	32	1	0	4	0	0	0	0	2	39
Monday 27/06/2016	20	0	11	0	0	0	0	0	0	31
Tuesday 28/06/2016	9	0	0	0	0	0	0	0	7	16
Wednesday 29/06/2016	13	0	0	0	0	0	0	0	2	15
Thursday 30/06/2016	10	0	0	0	1	0	0	0	0	11
Friday 01/07/2016	7	0	0	0	1	0	0	0	0	8
Saturday 02/07/2016	20	6	0	0	0	0	0	0	0	26
Sunday 03/07/2016	31	1	0	0	0	0	0	0	0	32
	152	8	11	4	2	0	0	0	11	188

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday	25/06/2016				
Sunday	26/06/2016				
Monday	27/06/2016				
Tuesday	28/06/2016	0	0	2	2
Wednesday	29/06/2016	0	0	1	1
Thursday	30/06/2016	0	0	1	1
Friday	01/07/2016	0	0	0	0
Saturday	02/07/2016	0	0	2	2
Sunday	03/07/2016	0	0	2	2
		0	0	8	8

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Dry, Cloudy	Dry, Cloudy
Sunday	26/06/2016	Dry, Cloudy	Dry, Cloudy
Monday	27/06/2016	Sunny, Clear	Sunny, Clear
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Clear	Sunny, Clear
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Sunny, Clear	Sunny, Clear
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S07 Broomfield 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S08 STACPOOL LEVEL CROSSING

Job Number	3267-LON-S08
Checked	06/10/2016
Date	04/10/2016
Contact	Ross De Vere
Revision	1



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Stacpool Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

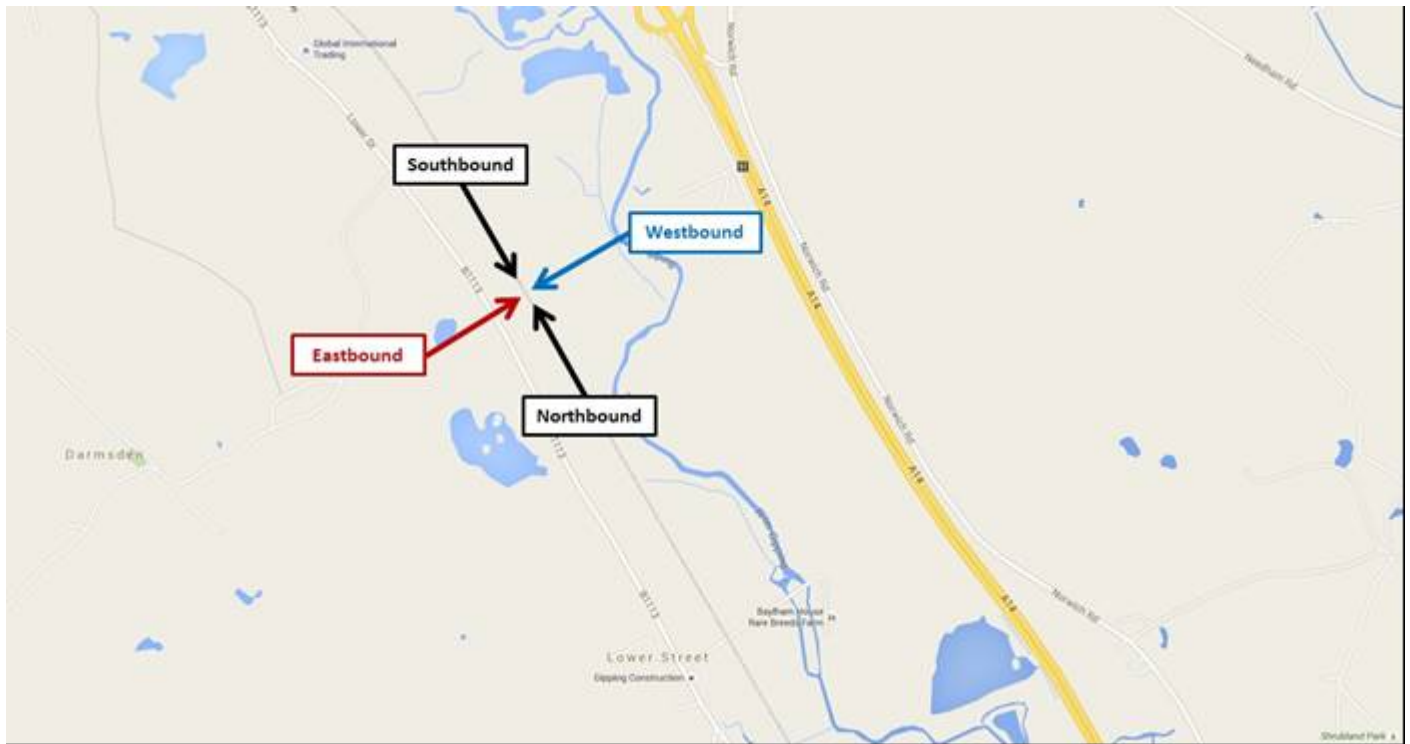
Stacpool Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 12:45 on Day 4 with 4 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S08 Stacpool Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	1	0	0	0	0	0	0	0	0	1
Sunday 26/06/2016	4	0	0	0	0	0	0	0	0	4
Monday 27/06/2016	1	0	0	0	0	0	0	0	0	1
Tuesday 28/06/2016	15	0	0	0	0	0	0	0	0	15
Wednesday 29/06/2016	1	0	0	0	0	0	0	0	0	1
Thursday 30/06/2016	5	0	0	0	0	0	0	0	0	5
Friday 01/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 02/07/2016	2	0	0	0	0	0	0	0	0	2
Sunday 03/07/2016	9	0	0	0	0	0	0	0	0	9
	39	0	0	0	0	0	0	0	0	39

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Clear
Sunday	26/06/2016	Overcast	Rain, Sunny later on
Monday	27/06/2016	Sunny, Passing Clouds	Dry, Passing Clouds
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Clear	Sunny, Clear
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Sunny, Clear	Sunny, Clear
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S08 Stacpool 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

**SURVEY REPORT
JUNE-JULY 2016**

3267-LON SITE S11 LEGGETTS LEVEL CROSSING

Job Number	3267-LON-S11
Checked	06/10/2016
Date	04/10/2016
Contact	Ross De Vere
Revision	1



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Leggetts Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

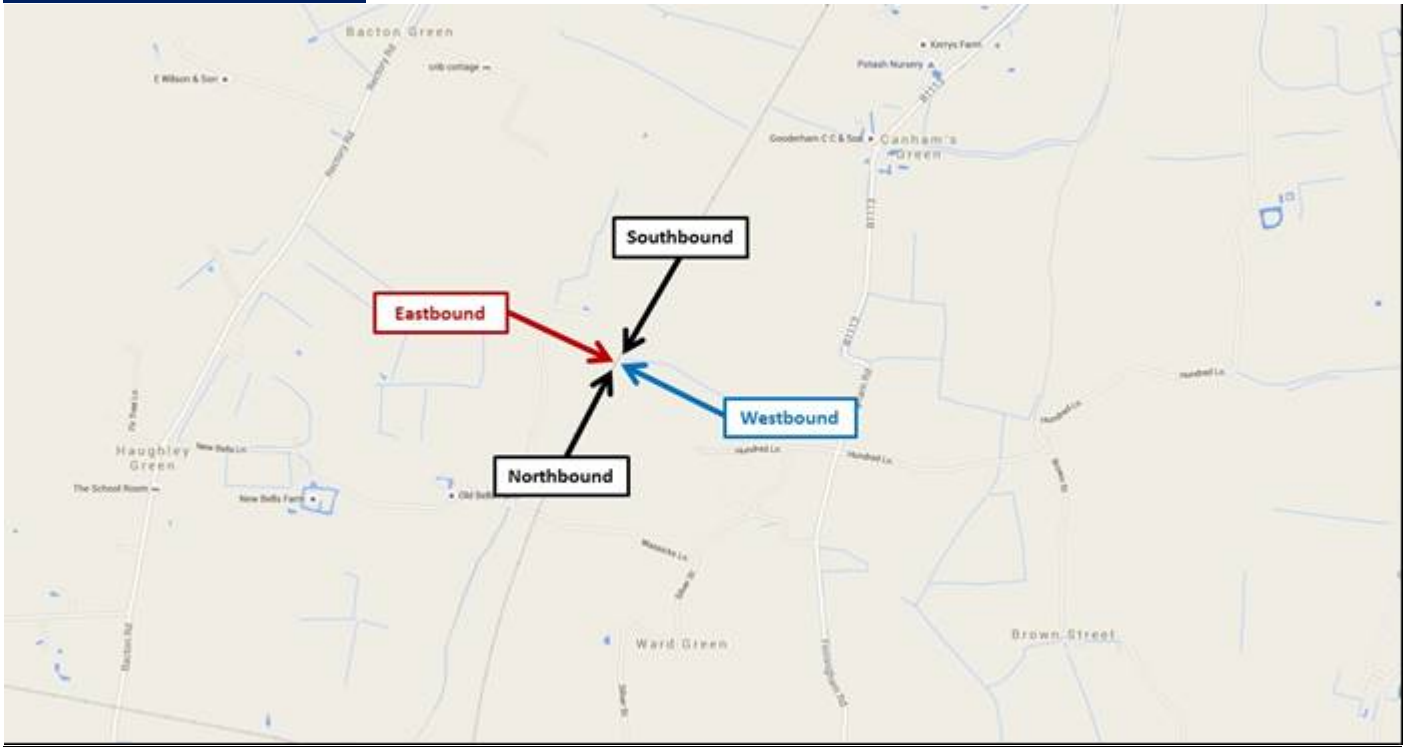
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Leggetts Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

No pedestrians were observed on the level crossing during this census

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S11 Leggetts Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 28/06/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Clear
Sunday	26/06/2016	Overcast, Rain	Sunny, Cloudy
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Passing Clouds	Sunny, Clear
Wednesday	29/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Thursday	30/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S11 Leggetts 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S12 GOODERHAMS LEVEL CROSSING

Job Number	3267-LON-S12
Checked	06/10/2016
Date	04/10/2016
Contact	Ross De Vere
Revision	1



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Gooderhams Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

S12 Gooderhams Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:30 on Day 1 with 2 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S12 Gooderhams Level Crossing, is Saturday 25th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	5	0	0	0	0	0	0	0	0	5
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	2	0	0	0	0	0	0	0	0	2
Tuesday 28/06/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	0	0	0	0	0	0	0	0	0	0
	8	0	0	0	0	0	0	0	0	8

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	26/06/2016	Overcast, Rain	Cloudy
Monday	27/06/2016	Overcast, Rain	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Wednesday	29/06/2016	Sunny, Windy	Sunny, Windy
Thursday	30/06/2016	Sunny, Windy	Sunny, Windy
Friday	01/07/2016	Sunny, Windy	Sunny, Windy
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Dry, Sunny	Dry, Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S12 Gooderhams 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

CENSUS REPORT JUNE-JULY 2016

3267-LON SITE S13 FORDS GREEN LEVEL CROSSING

Job Number	3267-LON-S13
Checked	14/10/2016
Date	13/10/2016
Contact	Ross De Vere
Revision	1



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing census at S13 Fords Green Level Crossing. The census consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Census Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian census was undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. Due to data loss between Saturday 25th June 2016 and Monday 27th June 2016, additional data was collected between Saturday 16th July 2016 and Monday 18th July 2016 for comparative purposes. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of foot traffic using the crossing by direction, classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

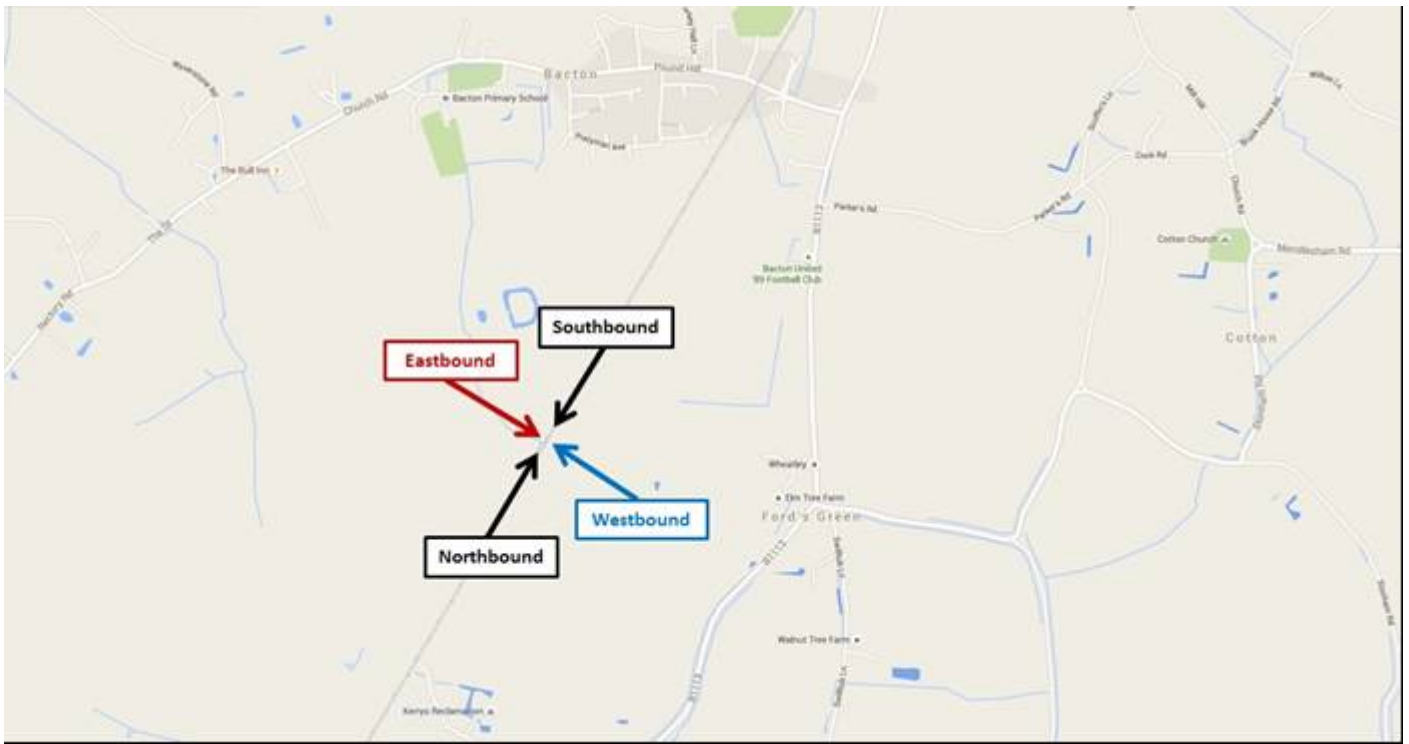
Fords Green Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 20:15 on Day 3 with 2 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The census undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 28th June 2016 and continued for six days until Sunday 03rd July 2016 with census hours of 00:00 to 24:00. A further Manual Level Crossing Count, for pedestrian users, started on Saturday 16th July 2016 and continued for three days until Monday 18th July 2016. This data is summarised below.

Throughout the whole period of the census pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the census, as per the specification. The busiest day for 3267-LON Site S13 Fords Green Level Crossing, is Monday 18th July 2016.

Pedestrians

Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
-------	-------------------	---------------------	---------	----------	-------------	------------------	------------------	-------------------	-------

Saturday	16/07/2016	1	0	0	0	0	0	0	0	1
Sunday	17/07/2016	0	0	0	0	0	0	0	0	0
Monday	18/07/2016	2	0	0	0	0	0	0	0	2
Tuesday	28/06/2016	0	0	0	0	0	0	0	0	0
Wednesday	29/06/2016	0	0	0	0	0	0	0	0	0
Thursday	30/06/2016	2	0	0	0	0	0	0	0	2
Friday	01/07/2016	0	0	0	0	0	0	0	0	0
Saturday	02/07/2016	1	0	0	0	0	0	0	0	1
Sunday	03/07/2016	0	0	0	0	0	0	0	0	0
		6	0	0	0	0	0	0	0	6

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday	16/07/2016			
Sunday	17/07/2016			
Monday	18/07/2016			
Tuesday	28/06/2016	0	0	0
Wednesday	29/06/2016	0	0	0
Thursday	30/06/2016	0	0	0
Friday	01/07/2016	0	0	0
Saturday	02/07/2016	0	0	0
Sunday	03/07/2016	0	0	0
		0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	16/07/2016	Sunny, Passing Clouds	Overcast
Sunday	17/07/2016	Cloudy, Windy	Cloudy, Windy
Monday	18/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Cloudy	Cloudy, Sunny Periods
Wednesday	29/06/2016	Cloudy, Windy	Cloudy, Windy
Thursday	30/06/2016	Cloudy, Sunny Periods	Cloudy, Sunny Periods
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	03/07/2016	Sunny, Clear	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S13 Fords Green 9-Day Census”

MOTT MacDONALD

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S16 GISLINGHAM LEVEL CROSSING

Job Number	3267-LON-S16
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Gislingham Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

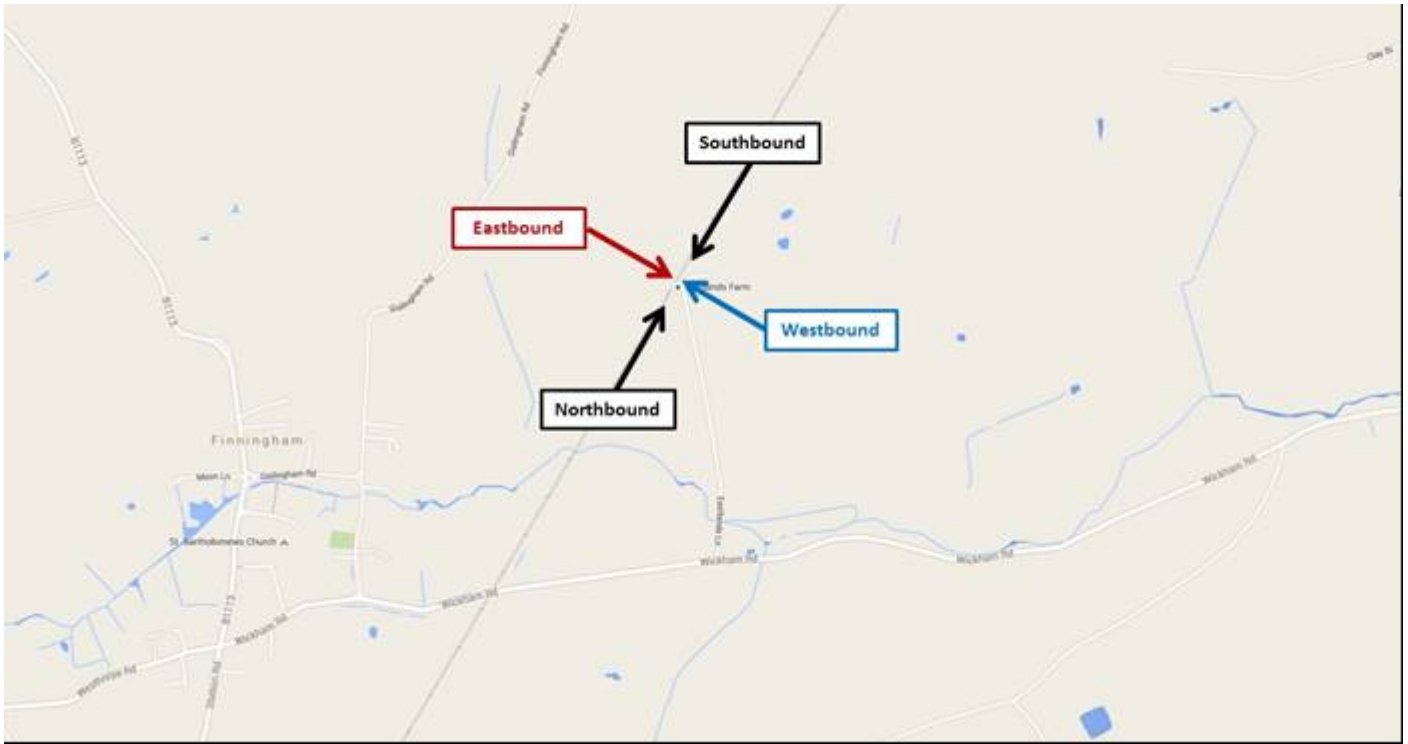
Gislingham Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:15 on Day 5 with 2 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest days for 3267-LON Site S16 Gislingham Level Crossing, are Wednesday 29th June 2016 & Sunday 03rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 28/06/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	2	2
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	2	0	0	0	0	0	0	0	0	2
	3	0	0	0	0	0	0	0	2	5

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Small Rain
Sunday	26/06/2016	Overcast, Rain	Overcast
Monday	27/06/2016	Overcast, Rain	Overcast, Cloudy
Tuesday	28/06/2016	Cloudy	Passing Clouds, Windy
Wednesday	29/06/2016	Sunny, Windy	Sunny, Windy
Thursday	30/06/2016	Sunny, Dry	Sunny, Dry
Friday	01/07/2016	Sunny, Dry	Sunny, Dry
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny, Dry	Sunny, Dry

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S16 Gislingham 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S17 PAYNES LEVEL CROSSING

Job Number	3267-LON-S17
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	1



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Paynes Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

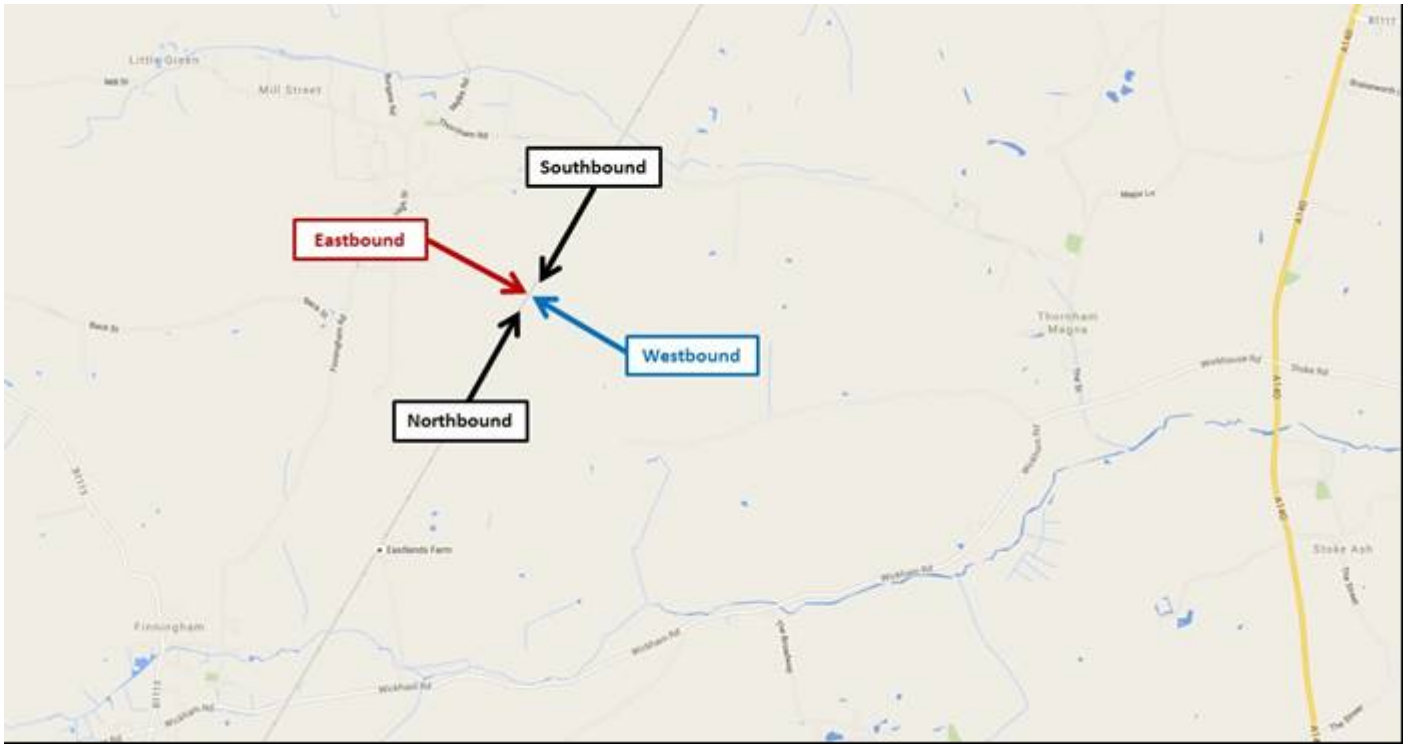
Paynes Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:15 on Day 4 with 4 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S17 Paynes Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	4	0	0	0	0	0	0	0	0	4
Monday 27/06/2016	0	0	0	0	0	0	0	0	0	0
Tuesday 28/06/2016	4	0	0	0	0	0	0	0	0	4
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	4	0	0	0	0	0	0	0	0	4
	14	0	0	0	0	0	0	0	0	14

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Dry	Sunny, Dry
Sunday	26/06/2016	Sunny, Dry	Sunny, Dry
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Wednesday	29/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Thursday	30/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	01/07/2016	Sunny, Cloudy	Sunny, Cloudy
Saturday	02/07/2016	Sunny, Passing Clouds	Sunny, Clear
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S17 Paynes 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S18 COW PASTURE LANE LEVEL CROSSING

Job Number	3267-LON-S18
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Cow Pasture Lane Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Cow Pasture Lane Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 11:45 on Day 4 with 4 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S18 Cow Pasture Lane Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	10	0	0	0	0	0	0	0	0	10
Sunday 26/06/2016	4	0	0	0	0	0	0	0	0	4
Monday 27/06/2016	5	0	0	0	0	0	0	0	0	5
Tuesday 28/06/2016	6	0	0	0	0	0	0	0	0	6
Wednesday 29/06/2016	4	0	0	0	0	0	0	0	0	4
Thursday 30/06/2016	6	0	0	0	0	0	0	0	0	6
Friday 01/07/2016	10	0	0	0	0	0	0	0	0	10
Saturday 02/07/2016	10	0	0	0	0	0	0	0	0	10
Sunday 03/07/2016	12	0	0	0	0	0	0	0	0	12
	67	0	0	0	0	0	0	0	0	67

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	1
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	2
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	1
Sunday 03/07/2016	0	0	2
	0	0	6

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather		AM	PM
Saturday	25/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	26/06/2016	Sunny, Cloudy	Sunny, Cloudy
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Dry	Sunny, Dry
Wednesday	29/06/2016	Sunny, Windy	Sunny, Windy
Thursday	30/06/2016	Sunny, Dry	Sunny, Dry
Friday	01/07/2016	Sunny, Clear	Sunny, Clear
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S18 Cow Pasture Lane 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S21 ABBOTTS LEVEL CROSSING

Job Number	3267-LON-S21
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Abbotts Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine days; from Saturday 25th June 2016 to Sunday 03rd July 2016 and Tuesday 28th June - Sunday 03rd July over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

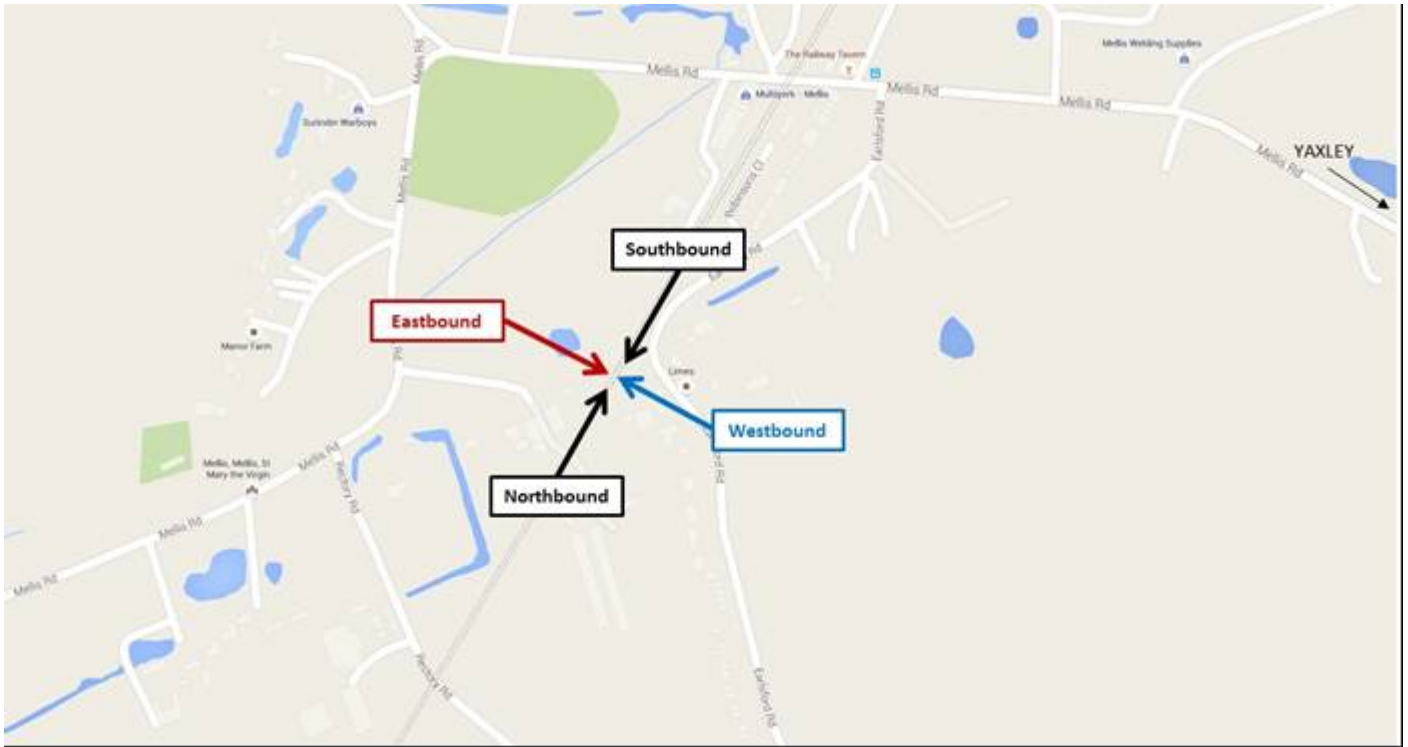
For each of the crossings the daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. These are detailed below for each level crossing. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Abbotts Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 17:15 on Day 8 with 3 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Tuesday 28th June 2016 and continued for six days until Sunday 03rd July 2016, with survey hours of 00:00 to 24:00. A further Manual Level Crossing Count started on Saturday 16th July 2016 and continued for three days until Monday 18th July, totalling nine days. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S21 Abbots Level Crossing, is Tuesday 28th June 2016.

Pedestrians

Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
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Saturday	16/07/2016	3	0	0	0	0	0	0	0	3
Sunday	17/07/2016	1	0	0	0	0	0	0	2	3
Monday	18/07/2016	2	0	0	0	0	0	0	0	2
Tuesday	28/06/2016	2	0	0	0	0	0	0	0	2
Wednesday	29/06/2016	3	0	0	0	0	0	0	0	3
Thursday	30/06/2016	3	0	0	0	0	0	0	0	3
Friday	01/07/2016	0	0	0	0	0	0	0	0	0
Saturday	02/07/2016	4	2	0	0	0	0	0	0	6
Sunday	03/07/2016	4	0	0	0	0	0	0	0	4
		22	2	0	0	0	0	0	2	26

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday	16/07/2016			
Sunday	17/07/2016			
Monday	18/07/2016			
Tuesday	28/06/2016	0	0	0
Wednesday	29/06/2016	0	0	0
Thursday	30/06/2016	0	0	0
Friday	01/07/2016	0	0	0
Saturday	02/07/2016	0	0	0
Sunday	03/07/2016	0	0	0
		0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	16/07/2016	Sunny / Cloudy	Sunny / Cloudy
Sunday	17/07/2016	Sunny / Cloudy	Sunny / Cloudy
Monday	18/07/2016	Sunny / Cloudy	Sunny / Cloudy
Tuesday	28/06/2016	Cloudy	Cloudy, Sunny Periods
Wednesday	29/06/2016	Cloudy, Windy	Cloudy, Windy
Thursday	30/06/2016	Cloudy	Cloudy, Sunny Periods
Friday	01/07/2016	Cloudy	Sunny
Saturday	02/07/2016	Cloudy, Sunny Periods	Rain, Cloudy
Sunday	03/07/2016	Cloudy	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S21 Abbotts 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE/JULY 2016

3267-LON SITE S22 – WEATHERBY LEVEL CROSSING

Job Number	3267-LON-S22
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	4



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Weatherby Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 3rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the specification:

- The Number of Vehicles Using the Crossing by Direction, Classified to:
 1. Equestrians, mounted
 2. Equestrians, walking
 3. Pedal Cycles being ridden
 4. Pedal Cycles being walked
- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians, equestrians and cyclists that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Weatherby Level Crossing – Busiest Quarter Hourly Periods

No equestrians were observed on the level crossing during this census.

For cyclists, the busiest quarter hourly period occurred at 16:15 on Day 9, with 6 riders.

For pedestrians, the busiest quarter hourly period occurred at 15:15 on Day 7, with 23 pedestrians.

The map shows a proposed roundabout in Newmarket. Four approach roads are identified with colored arrows and labels: Eastbound (red arrow), Southbound (black arrow), Northbound (black arrow), and Westbound (blue arrow). The roundabout is located at the intersection of Grange Rd and New Chevelly Rd. The map also shows other streets such as Park Ave, Grange Rd, New Chevelly Rd, and Berry Lymington. A green area labeled 'Newmarket Town Football Club' is visible in the bottom right. The text 'NEWMARKET' is at the top left.

Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 3rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S22, Weatherby Level Crossing, was Monday 27th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	382	30	0	0	0	0	6	1	0	419
Sunday 26/06/2016	291	25	0	0	0	0	8	0	0	324
Monday 27/06/2016	382	36	1	2	3	0	13	1	0	438
Tuesday 28/06/2016	314	32	28	0	0	0	18	1	1	394
Wednesday 29/06/2016	268	27	23	1	4	1	14	0	0	338
Thursday 30/06/2016	319	26	28	2	2	0	15	1	1	394
Friday 01/07/2016	331	47	26	0	3	0	22	1	0	430
Saturday 02/07/2016	429	36	8	0	1	0	10	0	0	484
Sunday 03/07/2016	327	26	5	1	4	0	13	0	0	376
	3043	285	119	6	17	1	119	5	2	3597

Equestrians and cyclists

Equestrian, mounted	Equestrian, walking	Bicycle riding	Bicycle walking	Total
---------------------	---------------------	----------------	-----------------	-------

Saturday 25/06/2016	0	0	4	21	25
Sunday 26/06/2016	0	0	5	37	42
Monday 27/06/2016	0	0	20	48	68
Tuesday 28/06/2016	0	0	7	52	59
Wednesday 29/06/2016	0	0	11	37	48
Thursday 30/06/2016	0	0	8	33	41
Friday 01/07/2016	0	0	8	43	51
Saturday 02/07/2016	0	0	4	37	41
Sunday 03/07/2016	0	0	20	47	67
	0	0	87	355	442

Weather

AM

PM

Saturday	25/06/2016	Sunny, Cloudy	Overcast, Rain
Sunday	26/06/2016	Cloudy	Cloudy
Monday	27/06/2016	Sunny, Clear	Sunny, Clear
Tuesday	28/06/2016	Sunny, Dry	Sunny, Dry
Wednesday	29/06/2016	Sunny, Dry	Overcast, Rain
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S22 Weatherby Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S23 HIGHAM LEVEL CROSSING

Job Number	3267-LON-S23
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Higham Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Higham Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

No pedestrians were observed on the level crossing during this census.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. No pedestrians were seen using 3267-LON Site S23 Higham Level Crossing.

Pedestrians

Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
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Saturday	25/06/2016	0	0	0	0	0	0	0	0	0
Sunday	26/06/2016	0	0	0	0	0	0	0	0	0
Monday	27/06/2016	0	0	0	0	0	0	0	0	0
Tuesday	28/06/2016	0	0	0	0	0	0	0	0	0
Wednesday	29/06/2016	0	0	0	0	0	0	0	0	0
Thursday	30/06/2016	0	0	0	0	0	0	0	0	0
Friday	01/07/2016	0	0	0	0	0	0	0	0	0
Saturday	02/07/2016	0	0	0	0	0	0	0	0	0
Sunday	03/07/2016	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday	25/06/2016			
Sunday	26/06/2016			
Monday	27/06/2016			
Tuesday	28/06/2016	0	0	0
Wednesday	29/06/2016	0	0	0
Thursday	30/06/2016	0	0	0
Friday	01/07/2016	0	0	0
Saturday	02/07/2016	0	0	0
Sunday	03/07/2016	0	0	0
		0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Passing Clouds
Sunday	26/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Clear	Sunny, Clear
Thursday	30/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	01/07/2016	Sunny, Windy	Sunny, Windy
Saturday	02/07/2016	Sunny, Clear	Sunny, Clear
Sunday	03/07/2016	Sunny, passing Clouds	Sunny, passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S23 Higham 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S24 HIGHAM GROUND FRAME LEVEL CROSSING

Job Number	3267-LON-S24
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Highham Ground Frame Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Higham Ground Frame Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 08:15 on Day 5 with 37 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S24 Highham Ground Frame Level Crossing, is Wednesday 29th June 2016.

Pedestrians

Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
-------	-------------------	---------------------	---------	----------	-------------	------------------	------------------	-------------------	-------

Saturday	25/06/2016	0	0	0	0	0	0	0	0	0
Sunday	26/06/2016	0	0	0	0	0	0	0	0	0
Monday	27/06/2016	0	0	0	0	0	0	0	0	0
Tuesday	28/06/2016	0	0	0	0	0	0	0	0	0
Wednesday	29/06/2016	50	0	0	0	0	0	0	0	50
Thursday	30/06/2016	0	0	0	0	0	0	0	0	0
Friday	01/07/2016	0	0	0	0	0	0	0	0	0
Saturday	02/07/2016	0	0	0	0	0	0	0	0	0
Sunday	03/07/2016	0	0	0	0	0	0	0	0	0
		50	0	0	0	0	0	0	0	50

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday	25/06/2016			
Sunday	26/06/2016			
Monday	27/06/2016			
Tuesday	28/06/2016	0	0	0
Wednesday	29/06/2016	0	0	0
Thursday	30/06/2016	0	0	0
Friday	01/07/2016	0	0	0
Saturday	02/07/2016	0	0	0
Sunday	03/07/2016	0	0	0
		0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	26/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Monday	27/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Tuesday	28/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	29/06/2016	Sunny, Passing Clouds	Overcast, Rain
Thursday	30/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	03/07/2016	Sunny, Cloudy	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S24 Higham Ground Frame 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE/JULY 2016

3267-LON SITE S25 – CATTISHALL LEVEL CROSSING

Job Number	3267-LON-S25
Checked	
Date	18/01/2017
Contact	Ross De Vere
Revision	5



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Cattishall Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 3rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the specification:

- The Number of Vehicles Using the Crossing by Direction, Classified to:
 1. Equestrians, mounted
 2. Equestrians, walking
 3. Pedal Cycles being ridden
 4. Pedal Cycles being walked
- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians, equestrians and cyclists that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Cattishall Level Crossing – Busiest Quarter Hourly Periods

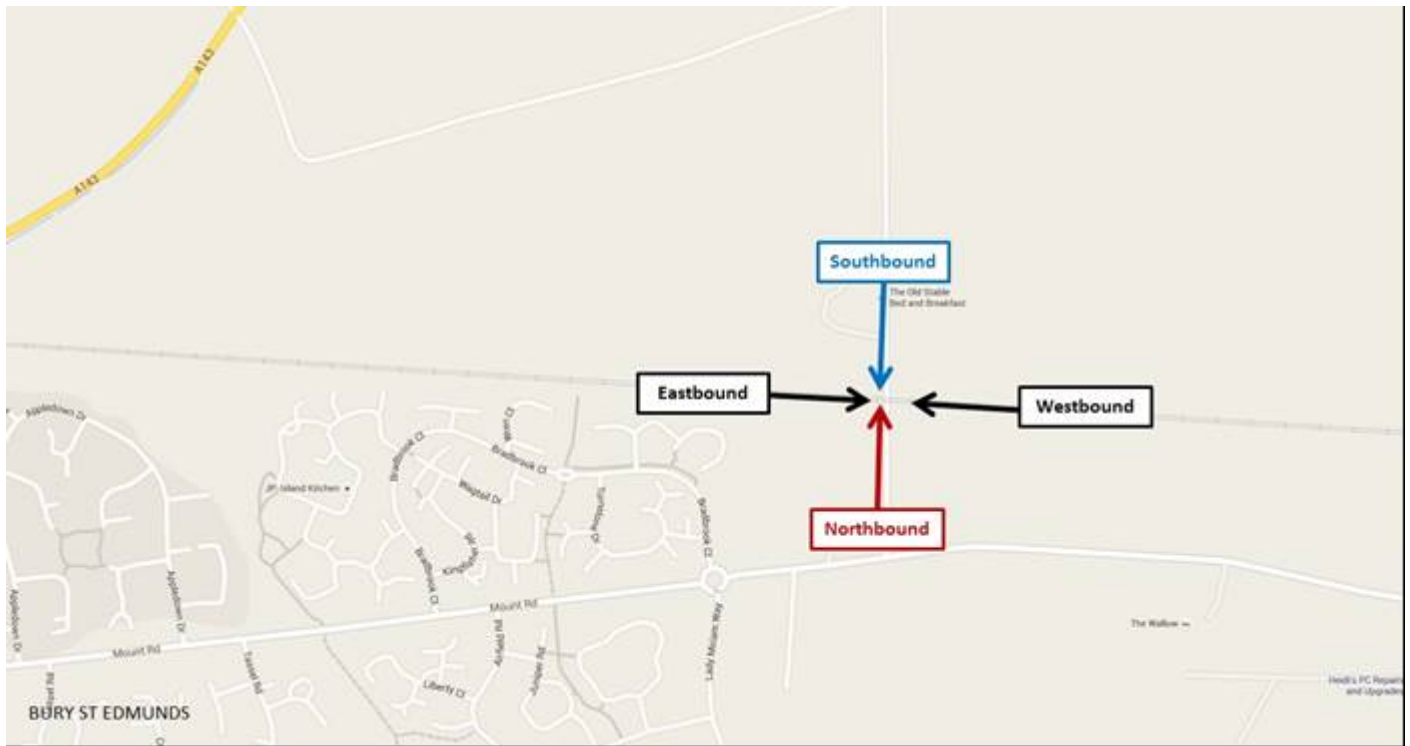
No equestrians were observed on the level crossing during this census.

For cyclists, the busiest quarter hourly period occurred at 13:15 on Day 9 with 6 riders.

For pedestrians, the busiest quarter hourly period occurred at 15:15 on Day 2* with 7 individuals, all of whom happened to be walking their bicycles in this period. They have been counted as walking cyclists in this census.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 3rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S25, Cattishall Level Crossing, was Sunday 3rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	21	0	0	0	0	0	0	0	0	21
Sunday 26/06/2016	20	0	0	0	0	0	0	0	0	20
Monday 27/06/2016	13	0	0	0	0	0	0	0	0	13
Tuesday 28/06/2016	18	1	0	0	0	0	0	0	0	19
Wednesday 29/06/2016	11	0	0	0	0	0	0	0	0	11
Thursday 30/06/2016	13	0	0	0	0	0	0	0	0	13
Friday 01/07/2016	3	0	0	0	0	0	0	0	0	3
Saturday 02/07/2016	29	0	0	0	0	0	2	0	0	31
Sunday 03/07/2016	52	5	0	0	0	0	2	0	0	59
	180	6	0	0	0	0	4	0	0	190

Equestrians and cyclists

Equestrian, mounted	Equestrian, walking	Bicycle riding	Bicycle walking	Total
---------------------	---------------------	----------------	-----------------	-------

Saturday 25/06/2016	0	0	0	15	15
Sunday 26/06/2016	0	0	0	19	19
Monday 27/06/2016	0	0	0	6	6
Tuesday 28/06/2016	0	0	1	13	14
Wednesday 29/06/2016	0	0	2	3	5
Thursday 30/06/2016	0	0	1	7	8
Friday 01/07/2016	0	0	1	16	17
Saturday 02/07/2016	0	0	7	3	10
Sunday 03/07/2016	0	0	9	50	59
	0	0	21	132	153

Weather

AM

PM

Saturday	25/06/2016	Sunny	Sunny
Sunday	26/06/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Monday	27/06/2016	Sunny, Windy, Passing Clouds	Sunny, Windy, Passing Clouds
Tuesday	28/06/2016	Sunny, Clear	Sunny, Clear
Wednesday	29/06/2016	Sunny, Windy	Sunny, Windy
Thursday	30/06/2016	Sunny, Passing Clouds	Sunny, Clear
Friday	01/07/2016	Sunny	Sunny
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S25 Cattishall Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S27 BARRELS LEVEL CROSSING

Job Number	3267-LON-S27
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Barrells Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

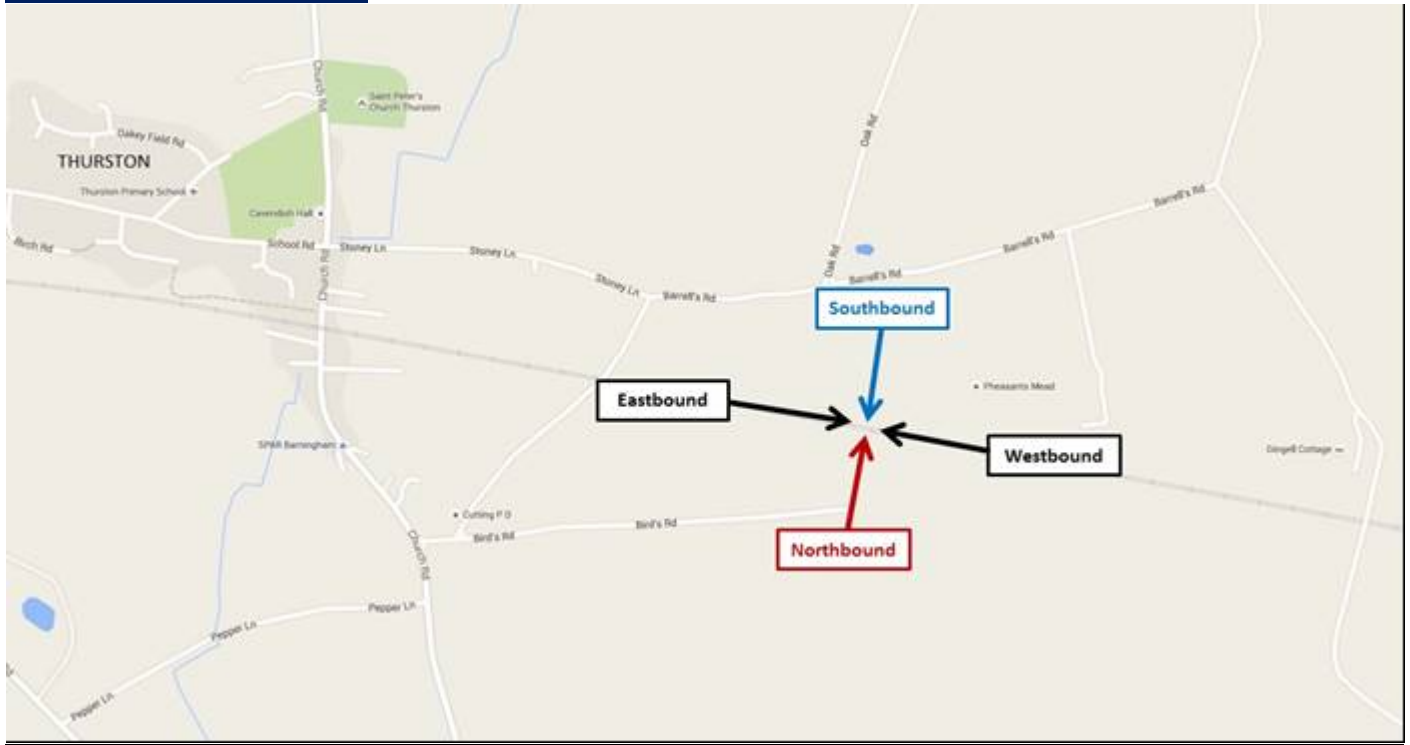
Barrells Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 20:00 on Day 2 with 2 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON S27 Barrels Level Crossing, is Friday 02nd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	1	0	0	0	0	0	0	0	2	3
Sunday 26/06/2016	6	0	0	0	0	0	0	0	0	6
Monday 27/06/2016	3	0	0	0	0	0	0	0	1	4
Tuesday 28/06/2016	2	0	0	0	0	0	0	0	0	2
Wednesday 29/06/2016	1	0	0	0	0	0	0	0	0	1
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	1	0	0	0	0	0	0	0	0	1
Saturday 02/07/2016	5	0	0	0	0	0	0	0	2	7
Sunday 03/07/2016	3	0	0	1	0	0	0	0	0	4
	22	0	0	1	0	0	0	0	5	28

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Clear	Sunny, Clear
Sunday	26/06/2016	Sunny, Windy	Sunny, Windy
Monday	27/06/2016	Sunny, Windy	Sunny, Windy
Tuesday	28/06/2016	Sunny	Sunny
Wednesday	29/06/2016	Sunny, Windy	Sunny, Windy
Thursday	30/06/2016	Sunny	Sunny
Friday	01/07/2016	Sunny, Windy	Sunny, Windy
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S27 Barrels 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S28 GROVE FARM LEVEL CROSSING

Job Number	3267-LON-S28
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Grove Farm Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

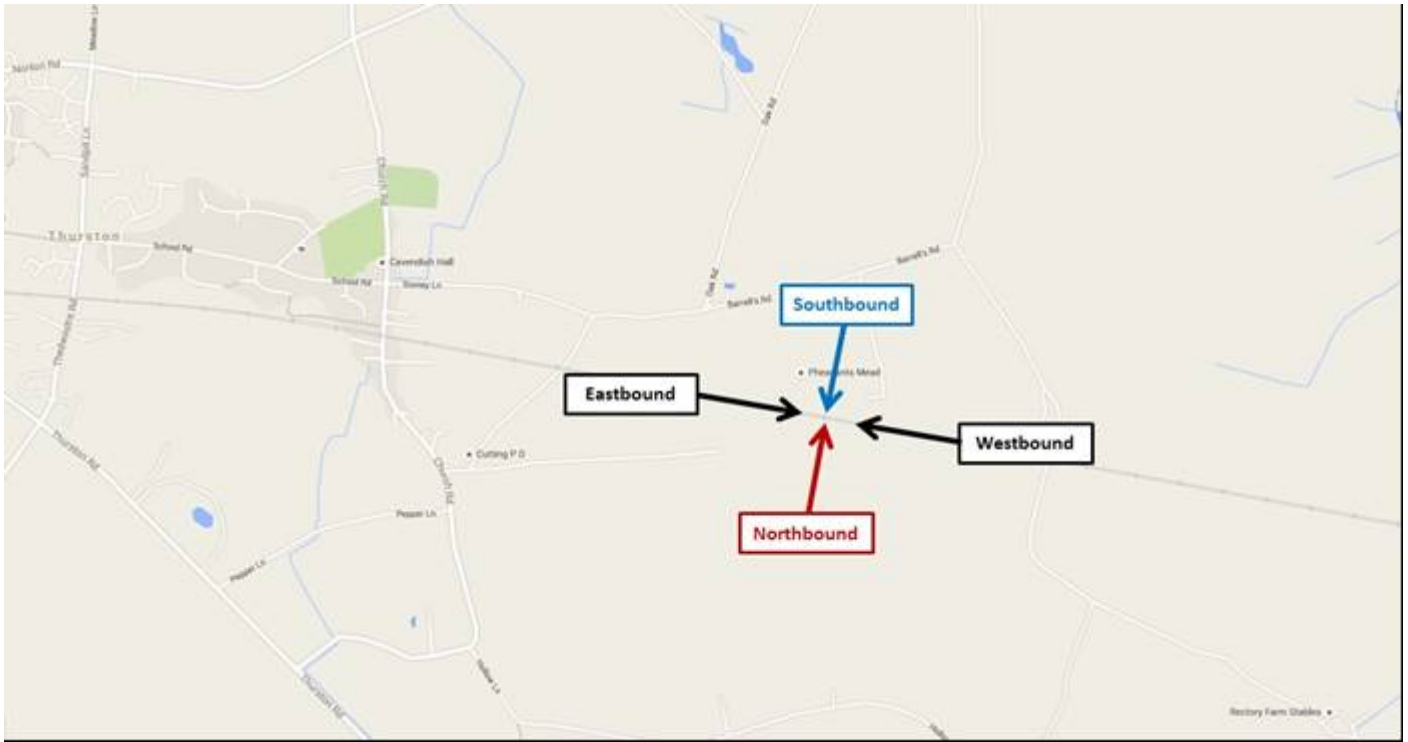
Grove Farm Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 08:30 on Day 9 with 2 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest days for 3267-LON Site S28 Grove Farm Level Crossing, are Monday 27th & Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	3	0	0	0	0	0	0	0	0	3
Tuesday 28/06/2016	3	0	0	0	0	0	0	0	0	3
Wednesday 29/06/2016	1	0	0	0	0	0	0	0	0	1
Thursday 30/06/2016	1	0	0	0	0	0	0	0	0	1
Friday 01/07/2016	2	0	0	0	0	0	0	0	0	2
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	3	0	0	0	0	0	0	0	0	3
	13	0	0	0	0	0	0	0	0	13

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Cloudy	Cloudy, Light rain
Sunday	26/06/2016	Cloudy	Cloudy
Monday	27/06/2016	Cloudy	Cloudy
Tuesday	28/06/2016	Sunny, Passing clouds	Cloudy
Wednesday	29/06/2016	Sunny, Passing clouds	Cloudy
Thursday	30/06/2016	Sunny, Passing clouds	Cloudy, Windy
Friday	01/07/2016	Cloudy, Windy	Cloudy, Windy
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny, Windy	Sunny, Windy

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S28 Grove Farm 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

**SURVEY REPORT
JUNE-JULY 2016**

3267-LON SITE S30 LORDS NUMBER TWENTY-NINE LEVEL CROSSING

Job Number	3267-LON-S30
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Lords Number Twenty-Nine Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Lords Number Twenty-Nine Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 10:45 on Day 9 with 4 pedestrians.

Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S30 Lords Number Twenty-Nine Level Crossing, is Sunday 03rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	2	0	0	0	0	0	0	0	0	2
Sunday 26/06/2016	7	0	0	0	0	0	0	0	0	7
Monday 27/06/2016	3	0	0	0	0	0	0	0	0	3
Tuesday 28/06/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	3	0	0	0	0	0	0	0	0	3
Friday 01/07/2016	9	0	0	0	0	0	0	0	0	9
Saturday 02/07/2016	8	0	0	0	0	0	0	0	0	8
Sunday 03/07/2016	11	4	1	0	0	0	0	0	0	16
	44	4	1	0	0	0	0	0	0	49

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	26/06/2016	Dry, Cloudy	Sunny, Passing clouds
Monday	27/06/2016	Cloudy, Light rain	Dry, Passing clouds
Tuesday	28/06/2016	Sunny, Passing clouds	Passing clouds
Wednesday	29/06/2016	Cloudy, Windy	Cloudy, Windy
Thursday	30/06/2016	Cloudy, Windy	Cloudy, Windy
Friday	01/07/2016	Sunny, Windy	Sunny, Windy
Saturday	02/07/2016	Sunny	Sunny, Windy
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S30 Lords Number 29 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S31 MUTTON HALL LEVEL CROSSING

Job Number	3267-LON-S31
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Mutton Hall Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

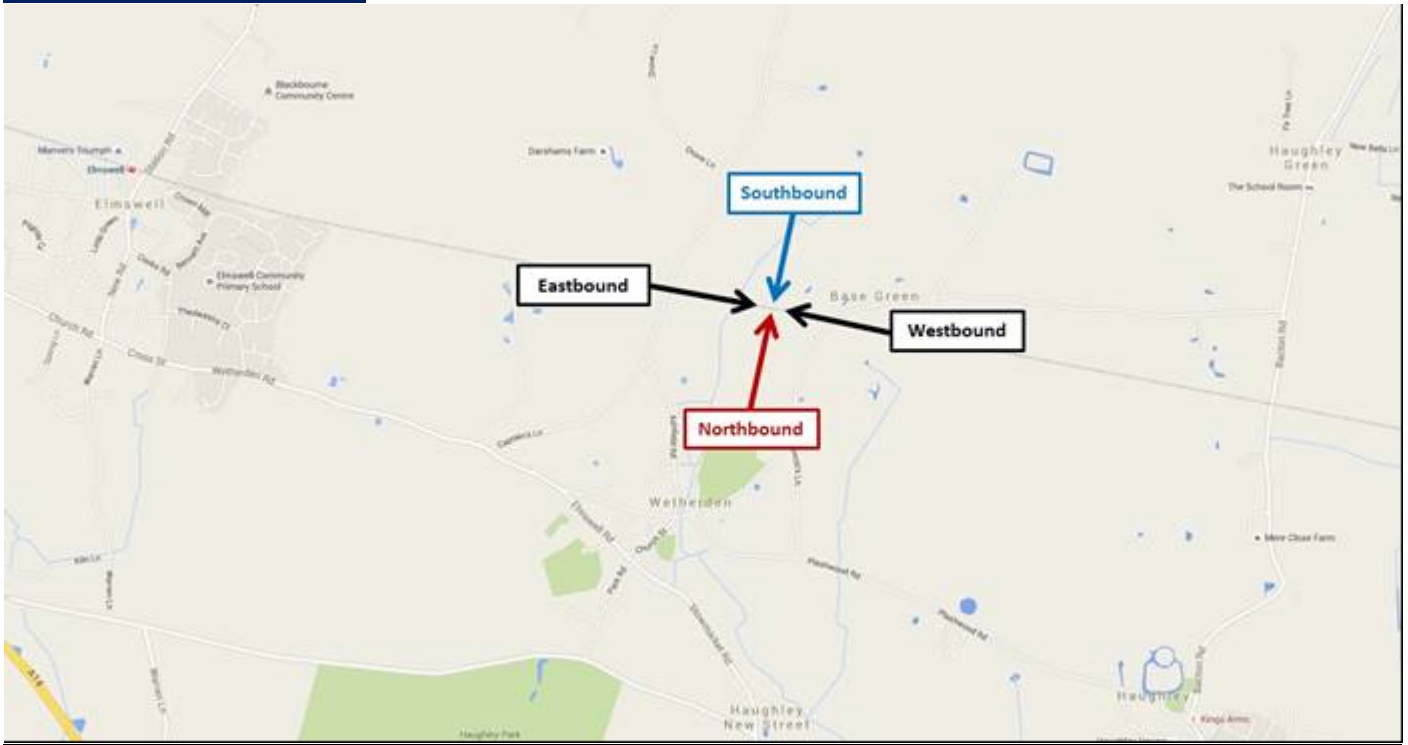
Mutton Hall Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 13:00 on Day 3 with 3 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S31 Mutton Hall Level Crossing, is Tuesday 28th June 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	2	0	0	0	1	0	0	0	0	3
Sunday 26/06/2016	3	0	0	0	0	0	0	0	0	3
Monday 27/06/2016	6	0	0	0	0	0	0	0	0	6
Tuesday 28/06/2016	0	0	0	0	0	0	0	0	0	0
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	3	0	0	0	0	0	0	0	0	3
Friday 01/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 02/07/2016	11	2	0	0	1	0	0	0	0	14
Sunday 03/07/2016	9	0	0	0	0	0	0	0	0	9
	34	2	0	0	2	0	0	0	0	38

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Dry, Cloudy	Sunny, Passing clouds
Sunday	26/06/2016	Cloudy	Cloudy
Monday	27/06/2016	Sunny, Passing clouds, rain	Cloudy
Tuesday	28/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Wednesday	29/06/2016	Sunny	Sunny
Thursday	30/06/2016	Sunny, Clear	Sunny, Clear
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Sunday	03/07/2016	Sunny, Passing clouds	Sunny, Passing clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S31 Mutton Hall 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S32 HAUGHLEY GREEN LEVEL CROSSING

Job Number	3267-LON-S32
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Haughley Green Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

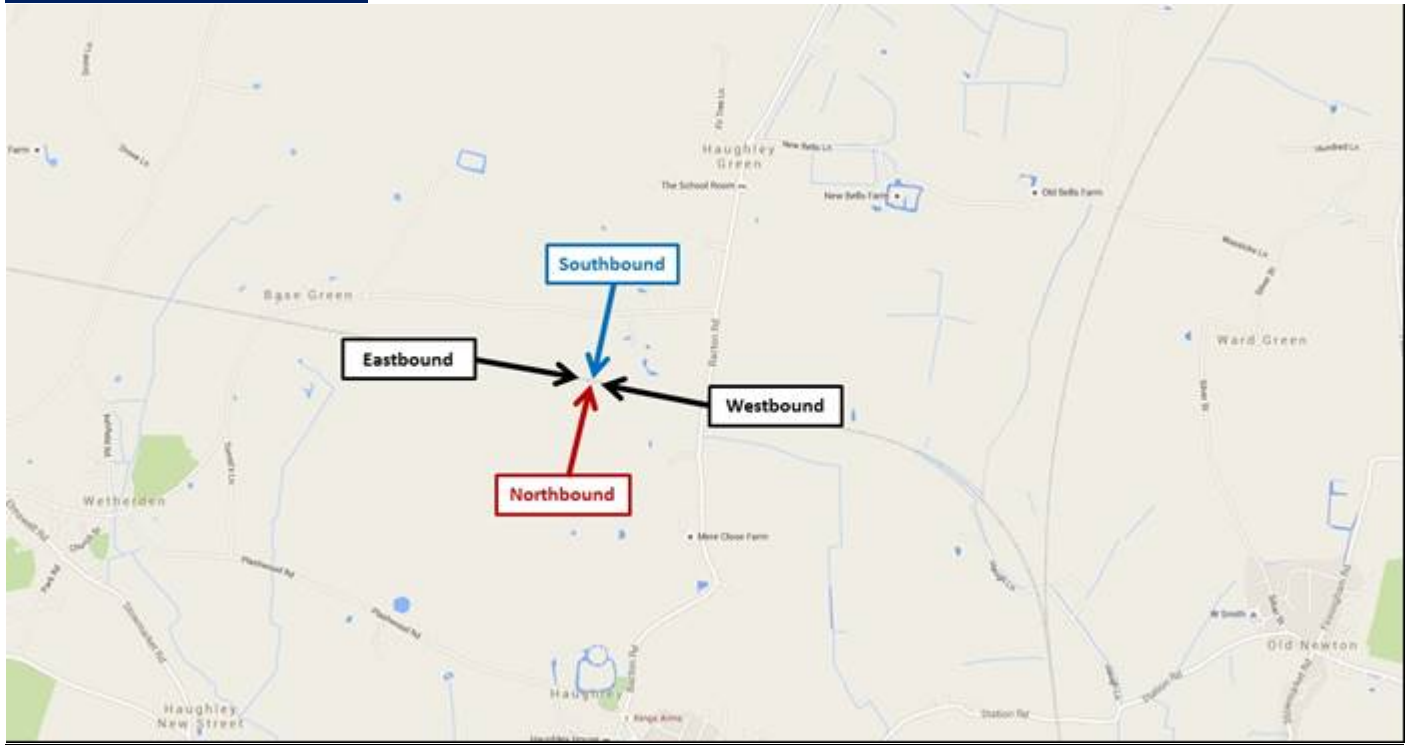
Haughley Green Level Crossing – Busiest Quarter Hourly Periods

For Cycles and Equestrian, the busiest quarter hourly period occurred at 10:30 on Day 9 with 1 cycle.

For Pedestrians, the busiest quarter hourly period occurred at 17:00 on Day 9 with 7 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S32 Haughley Green Level Crossing, is Sunday 03rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	1	0	0	0	0	0	0	0	2	3
Sunday 26/06/2016	7	4	0	0	0	0	0	0	0	11
Monday 27/06/2016	7	0	0	0	0	0	0	0	0	7
Tuesday 28/06/2016	1	0	0	0	0	0	0	0	0	1
Wednesday 29/06/2016	2	0	0	0	0	0	0	0	0	2
Thursday 30/06/2016	2	0	0	0	0	0	0	0	0	2
Friday 01/07/2016	4	0	0	0	0	0	0	0	0	4
Saturday 02/07/2016	2	1	0	0	0	0	0	0	0	3
Sunday 03/07/2016	11	1	0	0	0	0	0	0	0	12
	37	6	0	0	0	0	0	0	2	45

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	1
	0	0	1

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Dry, Cloudy	Dry, Cloudy
Sunday	26/06/2016	Dry, Cloudy	Dry, Cloudy
Monday	27/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Tuesday	28/06/2016	Sunny, Passing clouds	Cloudy
Wednesday	29/06/2016	Sunny, Passing clouds	Cloudy
Thursday	30/06/2016	Dry, Cloudy	Dry, Sunny
Friday	01/07/2016	Sunny	Sunny
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny	Sunny

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S32 Haughley Green 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

**SURVEY REPORT
JUNE-JULY 2016**

3267-LON SITE S33 WESTERFIELD LEVEL CROSSING

Job Number	3267-LON-S33
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Westerfield Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

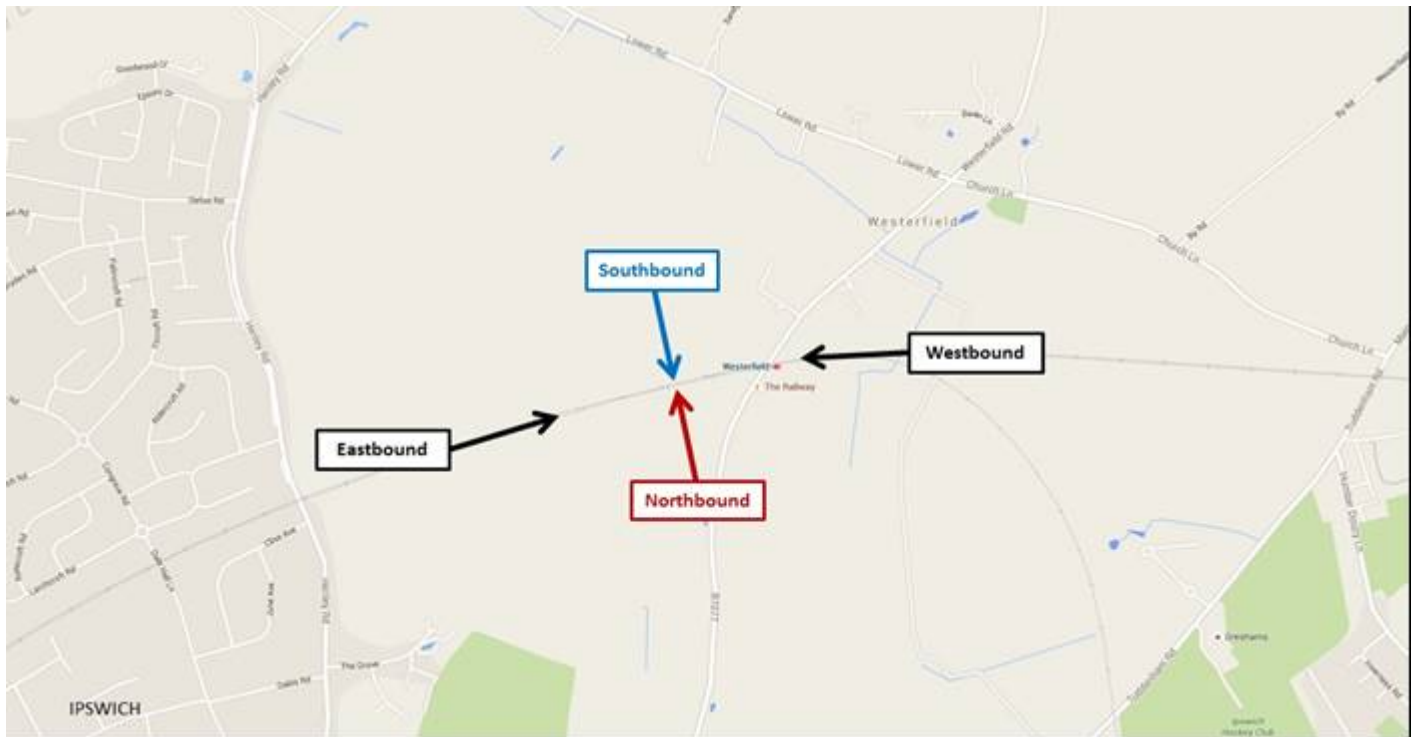
The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

S33 Westerfield Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 15:30 on Day 8 with 5 pedestrians.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S33 Westerfield Level Crossing, is Saturday 02nd July 2016.

Pedestrians

		Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday	25/06/2016	9	0	0	0	0	0	0	0	0	9
Sunday	26/06/2016	13	0	0	0	0	0	0	0	2	15
Monday	27/06/2016	5	0	0	0	0	0	0	0	0	5
Tuesday	28/06/2016	3	0	1	0	0	0	0	0	0	4
Wednesday	29/06/2016	5	0	1	0	0	0	0	0	0	6
Thursday	30/06/2016	6	0	1	0	0	0	0	0	0	7
Friday	01/07/2016	2	0	1	0	0	0	0	0	0	3
Saturday	02/07/2016	21	1	1	0	0	0	0	0	0	23
Sunday	03/07/2016	13	0	0	0	0	0	0	0	0	13
		77	1	5	0	0	0	0	0	2	85

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
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Saturday	25/06/2016			
Sunday	26/06/2016			
Monday	27/06/2016			
Tuesday	28/06/2016	0	0	0
Wednesday	29/06/2016	0	0	0
Thursday	30/06/2016	0	0	0
Friday	01/07/2016	0	0	0
Saturday	02/07/2016	0	0	0
Sunday	03/07/2016	0	0	0
		0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Sunday	26/06/2016	Sunny, Passing clouds	Sunny, Passing clouds
Monday	27/06/2016	Cloudy	Sunny, Passing clouds
Tuesday	28/06/2016	Cloudy	Cloudy
Wednesday	29/06/2016	Cloudy	Cloudy
Thursday	30/06/2016	Cloudy	Cloudy
Friday	01/07/2016	Cloudy	Cloudy
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny, Clear	Sunny, Clear

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S33 Westerfield 9-Day Census”

Mott MacDonald

LEVEL CROSSING TRAFFIC CENSUS

SURVEY REPORT JUNE-JULY 2016

3267-LON SITE S69 BACTON LEVEL CROSSING

Job Number	3267-LON-S69
Checked	12/10/2016
Date	12/10/2016
Contact	Ross De Vere
Revision	2



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Introduction

Tracsis Traffic Data Limited were commissioned by Mott MacDonald to undertake a level crossing survey at Bacton Level Crossing. The survey consisted of a nine day video traffic census. A location plan is shown in Figure 1, which shows the exact position of the crossing surveyed.

Contract Specification

The table below shows the analysis carried out, and any further analysis that is possible from the camera views:

Analysis Type	Status
Nine Day Census	Appendix A
Road Closure	not available
Traffic Turning	not available
Blocking Back	not available
Speed Survey	not available

In addition to this, further analysis could be carried out in the form of different pedestrian classifications, if requested.

Survey Conduct/Data Presentation – Traffic Census (Appendix A)

The pedestrian surveys were undertaken at the level crossing by telescopically mounted cameras that were installed over nine consecutive days from Saturday 25th June 2016 to Sunday 03rd July 2016 over the hours 00:00 – 24:00 each day. The camera equipment was installed from the highway and at no time did we go onto Network Rail land or property. Resulting camera images recorded at each crossing were then analysed by experienced staff, all closely supervised. The traffic and pedestrian data was recorded in 15 minute intervals classifying the movements over the crossing into the categories shown below, all in accordance with the Mott MacDonald specification:

- Type of Foot Traffic Using the Crossing by Direction, Classified to:
 1. Adults
 2. Accompanied Children
 3. Unaccompanied Children
 4. Elderly
 5. Impaired
 6. Wheelchair
 7. Pushchair/Pram
 8. Mobility Scooter
 9. Railway Personnel

The daily number of pedestrians that used the level crossing over the 24 hours are summed for each category as specified. The specification also requires the busiest quarter hour period for pedestrians. In addition, Tracsis Traffic Data Limited have added any relevant observations during the analysis, relating to crossing misuse or unusual occurrences.

Bacton Level Crossing – Busiest Quarter Hourly Periods

No cyclists or horse-riders were observed on the level crossing during this census.

For Pedestrians, the busiest quarter hourly period occurred at 14:15 on Day 9 with 6 pedestrians*.

* This time period is the first occurrence of the busiest period, but not the only occurrence.

Figure 1 - Location Plan



Camera View/Site Equipment



Summary

The surveys undertaken at the Level Crossing were successfully undertaken in accordance with the specification.

The Manual Level Crossing Count, for pedestrian users, started on Saturday 25th June 2016 and continued for nine days until Sunday 03rd July 2016 with survey hours of 00:00 to 24:00. This data is summarised below.

Throughout the whole period of the survey pedestrian traffic operated in normal free flow conditions and was only restricted by train movements at this site.

Footage will be provided for the survey, as per the specification. The busiest day for 3267-LON Site S69 Bacton Level Crossing, is Sunday 03rd July 2016.

Pedestrians

	Adult	Accompanied Child	Unaccompanied Child	Elderly	Impaired	Wheel-chair	Pushchair / Pram	Mobility Scooter	Railway Personnel	Total
Saturday 25/06/2016	0	0	0	0	0	0	0	0	0	0
Sunday 26/06/2016	0	0	0	0	0	0	0	0	0	0
Monday 27/06/2016	0	0	0	0	0	0	0	0	1	1
Tuesday 28/06/2016	5	0	0	0	0	0	0	0	0	5
Wednesday 29/06/2016	0	0	0	0	0	0	0	0	0	0
Thursday 30/06/2016	0	0	0	0	0	0	0	0	0	0
Friday 01/07/2016	0	0	0	0	0	0	0	0	0	0
Saturday 02/07/2016	0	0	0	0	0	0	0	0	0	0
Sunday 03/07/2016	0	0	22	0	0	0	0	0	0	22
	5	0	22	0	0	0	0	0	1	28

Equestrians and Cyclists*

Horses	Ridden bicycles	Pushed bicycles	Total
--------	-----------------	-----------------	-------

Saturday 25/06/2016			
Sunday 26/06/2016			
Monday 27/06/2016			
Tuesday 28/06/2016	0	0	0
Wednesday 29/06/2016	0	0	0
Thursday 30/06/2016	0	0	0
Friday 01/07/2016	0	0	0
Saturday 02/07/2016	0	0	0
Sunday 03/07/2016	0	0	0
	0	0	0

*Please note that following discussion with Mott MacDonald following delivery of the first 3 days' worth of census data, the methodology was changed for counting pedestrians and cyclists during census days 4-9. For clarity, during the first 3 days' of census, counts of Ridden bicycles & pushed bicycles were categorised within the regular pedestrian classifications.

Weather

AM

PM

Saturday	25/06/2016	Sunny, Passing clouds	Dry, Cloudy, Rain
Sunday	26/06/2016	Dry, Cloudy, Rain	Dry, Cloudy
Monday	27/06/2016	Sunny, Passing clouds	Dry, Cloudy
Tuesday	28/06/2016	Sunny, Passing clouds	Dry, Cloudy
Wednesday	29/06/2016	Sunny, Passing clouds	Dry, Cloudy
Thursday	30/06/2016	Sunny	Sunny
Friday	01/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds
Saturday	02/07/2016	Sunny, Windy	Sunny, Windy
Sunday	03/07/2016	Sunny, Passing Clouds	Sunny, Passing Clouds

Appendix A – Nine-Day Census

See Excel spreadsheet “3267-LON Site S69 Bacton 9-Day Census”